ForgeSolar

Low Solar

Low Residential

Created May 11, 2021
Updated June 24, 2021
Time-step 1 minute
Timezone offset UTC0
Site ID 53508.9451

Project type Advanced
Project status: active
Category 10 MW to 100 MW

Misc. Analysis Settings

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

Analysis Methodologies:

- Observation point: **Version 2**
- 2-Mile Flight Path: **Version 2**
- Route: **Version 2**

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
PV array 1	15.0	180.0	2,067	63,725	-
PV array 2	15.0	180.0	1,925	30,400	-
PV array 3	15.0	180.0	101	89,379	-
PV array 4	15.0	180.0	3,400	9,064	-
PV array 5	15.0	180.0	6,529	30,612	-

Component Data

PV Array(s)

Total PV footprint area: 762,440 m^2

Name: PV array 1
Axis tracking: Fixed (no rotation)
Tilt: 15.0 deg
Orientation: 180.0 deg
Footprint area: 201,172 m^2
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	m	m	m
1	53.638903	-1.648517	203.06	2.80	205.86
2	53.638203	-1.648002	204.78	2.80	207.58
3	53.637924	-1.648860	207.61	2.80	210.41
4	53.637707	-1.649139	208.78	2.80	211.58
5	53.637160	-1.649160	208.36	2.80	211.16
6	53.636931	-1.649053	208.31	2.80	211.11
7	53.636664	-1.648474	206.06	2.80	208.86
8	53.636690	-1.646585	200.49	2.80	203.29
9	53.636957	-1.646242	200.35	2.80	203.15
10	53.637020	-1.645963	199.71	2.80	202.51
11	53.638369	-1.646414	198.99	2.80	201.79
12	53.638432	-1.644890	193.46	2.80	196.26
13	53.637377	-1.644740	194.37	2.80	197.17
14	53.637300	-1.642916	188.32	2.80	191.12
15	53.637377	-1.641950	187.95	2.80	190.75
16	53.637555	-1.640985	186.53	2.80	189.33
17	53.637745	-1.640663	184.50	2.80	187.30
18	53.637974	-1.640577	183.79	2.80	186.59
19	53.638153	-1.640835	181.74	2.80	184.54
20	53.638369	-1.640899	181.54	2.80	184.34
21	53.638547	-1.640642	180.83	2.80	183.63
22	53.638534	-1.639418	180.08	2.80	182.88
23	53.638585	-1.639140	179.40	2.80	182.20
24	53.638725	-1.639011	178.02	2.80	180.82
25	53.638967	-1.639097	176.27	2.80	179.07
26	53.640061	-1.640298	168.33	2.80	171.13
27	53.640595	-1.640620	162.85	2.80	165.65
28	53.640646	-1.640942	165.68	2.80	168.48
29	53.640404	-1.641478	166.54	2.80	169.34
30	53.640977	-1.645212	170.14	2.80	172.94
31	53.641689	-1.647787	177.13	2.80	179.93
32	53.641168	-1.648087	183.54	2.80	186.34
33	53.640939	-1.648130	187.20	2.80	190.00
34	53.640710	-1.647937	188.86	2.80	191.66
35	53.640392	-1.647401	189.11	2.80	191.91
36	53.640112	-1.647100	190.65	2.80	193.45
37	53.639654	-1.647014	193.32	2.80	196.12
38	53.639298	-1.646242	192.25	2.80	195.05
39	53.639043	-1.646017	194.18	2.80	196.98
40	53.639002	-1.646263	195.60	2.80	198.40
41	53.639002	-1.646628	196.40	2.80	199.20
42	53.638954	-1.646907	197.82	2.80	200.62
43	53.639170	-1.647401	197.91	2.80	200.71

Name: PV array 2
Axis tracking: Fixed (no rotation)
Tilt: 15.0 deg
Orientation: 180.0 deg
Footprint area: 106,107 m^2
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	m	m	m
1	53.636962	-1.641376	191.10	2.80	193.90
2	53.634844	-1.640335	185.22	2.80	188.02
3	53.634767	-1.639863	185.08	2.80	187.88
4	53.634329	-1.639530	183.11	2.80	185.91
5	53.634125	-1.639584	181.74	2.80	184.54
6	53.634112	-1.639949	181.80	2.80	184.60
7	53.633972	-1.639927	181.34	2.80	184.14
8	53.633616	-1.639713	179.61	2.80	182.41
9	53.633648	-1.639005	179.00	2.80	181.80
10	53.633724	-1.638457	179.25	2.80	182.05
11	53.633921	-1.637835	179.75	2.80	182.55
12	53.634042	-1.637030	181.56	2.80	184.36
13	53.634080	-1.636472	182.75	2.80	185.55
14	53.634239	-1.636151	185.72	2.80	188.52
15	53.634335	-1.635732	192.22	2.80	195.02
16	53.634583	-1.636301	191.19	2.80	193.99
17	53.634825	-1.636601	193.59	2.80	196.39
18	53.635079	-1.636741	192.86	2.80	195.66
19	53.635544	-1.636698	197.35	2.80	200.15
20	53.635938	-1.636537	193.87	2.80	196.67
21	53.636027	-1.636322	193.72	2.80	196.52
22	53.636046	-1.635550	194.78	2.80	197.58
23	53.637586	-1.636633	186.89	2.80	189.69
24	53.637267	-1.638972	186.54	2.80	189.34

Name: PV array 3
Axis tracking: Fixed (no rotation)
Tilt: 15.0 deg
Orientation: 180.0 deg
Footprint area: 383,329 m^2
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	m	m	m
1	53.645819	-1.631539	135.31	2.80	138.11
2	53.645412	-1.632720	136.90	2.80	139.70
3	53.644916	-1.634801	136.99	2.80	139.79
4	53.644330	-1.635724	143.08	2.80	145.88
5	53.643669	-1.637290	147.79	2.80	150.59
6	53.642906	-1.639178	152.07	2.80	154.87
7	53.642079	-1.640595	158.71	2.80	161.51
8	53.641494	-1.640659	161.86	2.80	164.66
9	53.641112	-1.640144	163.14	2.80	165.94
10	53.640412	-1.639393	170.89	2.80	173.69
11	53.639166	-1.637359	180.14	2.80	182.94
12	53.638937	-1.636994	180.39	2.80	183.19
13	53.639128	-1.636672	179.99	2.80	182.79
14	53.638771	-1.636221	179.69	2.80	182.49
15	53.639293	-1.633925	177.06	2.80	179.86
16	53.639535	-1.634312	176.68	2.80	179.48
17	53.640311	-1.634354	171.69	2.80	174.49
18	53.640692	-1.633968	166.75	2.80	169.55
19	53.640489	-1.633539	168.61	2.80	171.41
20	53.640285	-1.632788	169.95	2.80	172.75
21	53.639929	-1.632509	174.64	2.80	177.44
22	53.639369	-1.632831	176.96	2.80	179.76
23	53.639051	-1.632767	177.16	2.80	179.96
24	53.639560	-1.631136	172.86	2.80	175.66
25	53.640082	-1.630921	171.19	2.80	173.99
26	53.640959	-1.630192	162.07	2.80	164.87
27	53.641506	-1.630084	156.99	2.80	159.79
28	53.641417	-1.629526	157.67	2.80	160.47
29	53.642372	-1.629655	144.68	2.80	147.48
30	53.642982	-1.629999	139.64	2.80	142.44
31	53.642957	-1.628582	137.03	2.80	139.83
32	53.642677	-1.628754	141.79	2.80	144.59
33	53.642613	-1.628024	142.92	2.80	145.72
34	53.642613	-1.625728	144.70	2.80	147.50
35	53.642690	-1.625063	143.40	2.80	146.20
36	53.643097	-1.625020	143.90	2.80	146.70
37	53.643135	-1.625621	143.57	2.80	146.37
38	53.643376	-1.626050	142.32	2.80	145.12
39	53.643555	-1.626158	141.31	2.80	144.11
40	53.644280	-1.625836	141.18	2.80	143.98
41	53.644356	-1.627359	131.60	2.80	134.40
42	53.644076	-1.627424	132.64	2.80	135.44
43	53.643783	-1.627960	133.76	2.80	136.56
44	53.643593	-1.628067	134.22	2.80	137.02
45	53.643593	-1.628497	134.70	2.80	137.50
46	53.643860	-1.628432	134.07	2.80	136.87
47	53.644051	-1.628604	133.10	2.80	135.90
48	53.644165	-1.629012	132.64	2.80	135.44
49	53.643949	-1.629484	134.14	2.80	136.94
50	53.643809	-1.629848	135.03	2.80	137.83
51	53.643834	-1.630492	137.06	2.80	139.86
52	53.643911	-1.630878	136.15	2.80	138.95
53	53.643796	-1.631114	137.40	2.80	140.20
54	53.643147	-1.631458	140.12	2.80	142.92
55	53.642422	-1.631908	145.26	2.80	148.06
56	53.642117	-1.632681	149.47	2.80	152.27
57	53.642295	-1.632874	147.76	2.80	150.56
58	53.642524	-1.632402	145.42	2.80	148.22
59	53.642918	-1.631994	142.56	2.80	145.36
60	53.643326	-1.631908	141.16	2.80	143.96
61	53.643974	-1.631672	136.72	2.80	139.52

62	53.644356	-1.631350	133.86	2.80	136.66
63	53.644661	-1.630642	127.01	2.80	129.81
64	53.645081	-1.629720	121.80	2.80	124.60
65	53.645183	-1.629526	121.76	2.80	124.56

Name: PV array 4
Axis tracking: Fixed (no rotation)
Tilt: 15.0 deg
Orientation: 180.0 deg
Footprint area: 47,850 m^2
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	m	m	m
1	53.638913	-1.632292	177.97	2.80	180.77
2	53.636864	-1.630984	186.16	2.80	188.96
3	53.637221	-1.630533	181.81	2.80	184.61
4	53.637742	-1.629610	178.55	2.80	181.35
5	53.638111	-1.627722	172.15	2.80	174.95
6	53.639243	-1.627658	168.25	2.80	171.05
7	53.639218	-1.629267	173.08	2.80	175.88
8	53.639142	-1.630790	175.63	2.80	178.43
9	53.639014	-1.632099	177.17	2.80	179.97

Name: PV array 5
Axis tracking: Fixed (no rotation)
Tilt: 15.0 deg
Orientation: 180.0 deg
Footprint area: 23,982 m^2
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	m	m	m
1	53.639657	-1.629342	169.88	2.80	172.68
2	53.639390	-1.628870	171.22	2.80	174.02
3	53.639485	-1.626027	161.35	2.80	164.15
4	53.639739	-1.625844	157.75	2.80	160.55
5	53.639765	-1.625447	156.18	2.80	158.98
6	53.639746	-1.625061	154.42	2.80	157.22
7	53.639746	-1.624782	154.04	2.80	156.84
8	53.639835	-1.624536	153.19	2.80	155.99
9	53.639905	-1.624267	152.12	2.80	154.92
10	53.639918	-1.624074	151.86	2.80	154.66
11	53.640013	-1.623924	151.51	2.80	154.31
12	53.640127	-1.623978	151.38	2.80	154.18
13	53.640713	-1.624729	150.12	2.80	152.92
14	53.640655	-1.625104	151.62	2.80	154.42
15	53.640032	-1.627336	160.95	2.80	163.75
16	53.639797	-1.628613	165.60	2.80	168.40

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	m	m	m
OP 1	53.637198	-1.654297	225.77	2.00	227.77
OP 2	53.637230	-1.655413	227.19	2.00	229.19
OP 3	53.637186	-1.655596	226.81	2.00	228.81
OP 4	53.637141	-1.655767	226.42	2.00	228.42
OP 5	53.635780	-1.658321	213.39	2.00	215.39
OP 6	53.630156	-1.649062	178.77	2.00	180.77
OP 7	53.633531	-1.634926	182.68	2.00	184.68
OP 8	53.632800	-1.631471	169.64	2.00	171.64
OP 9	53.633295	-1.629740	181.13	2.00	183.13
OP 10	53.634408	-1.629697	184.91	2.00	186.91
OP 11	53.634681	-1.627541	185.69	2.00	187.69
OP 12	53.634675	-1.625845	181.63	2.00	183.63
OP 13	53.634936	-1.625051	178.91	2.00	180.91
OP 14	53.634128	-1.623871	171.42	2.00	173.42
OP 15	53.633333	-1.623110	164.95	2.00	166.95
OP 16	53.637858	-1.637596	186.40	2.00	188.40
OP 17	53.637922	-1.636931	186.41	2.00	188.41
OP 18	53.638052	-1.636368	185.46	2.00	187.46
OP 19	53.641048	-1.628635	159.24	2.00	161.24
OP 20	53.640940	-1.627648	157.70	2.00	159.70
OP 21	53.639356	-1.625046	156.52	2.00	158.52
OP 22	53.639270	-1.624596	154.80	2.00	156.80
OP 23	53.638494	-1.622337	165.28	2.00	167.28
OP 24	53.638577	-1.622171	165.60	2.00	167.60
OP 25	53.638687	-1.622013	165.30	2.00	167.30
OP 26	53.639619	-1.622798	153.48	2.00	155.48
OP 27	53.640259	-1.622289	152.07	2.00	154.07
OP 28	53.640310	-1.622018	152.53	2.00	154.53
OP 29	53.640341	-1.621798	153.13	2.00	155.13
OP 30	53.644034	-1.616941	145.29	2.00	147.29
OP 31	53.644128	-1.616837	144.88	2.00	146.88
OP 32	53.644199	-1.616577	144.49	2.00	146.49
OP 33	53.644547	-1.614860	143.41	2.00	145.41
OP 34	53.647078	-1.637863	134.91	2.00	136.91
OP 35	53.646741	-1.637455	137.26	2.00	139.26
OP 36	53.644604	-1.642712	161.74	2.00	163.74
OP 37	53.644299	-1.643624	163.72	2.00	165.72
OP 38	53.644025	-1.644761	164.77	2.00	166.77
OP 39	53.648197	-1.647562	147.01	2.00	149.01
OP 40	53.646626	-1.653653	150.05	2.00	152.05
OP 41	53.646060	-1.654254	160.14	2.00	162.14
OP 42	53.645189	-1.655499	175.06	2.00	177.06
OP 43	53.644152	-1.657677	198.48	2.00	200.48
OP 44	53.644082	-1.657054	197.46	2.00	199.46
OP 45	53.643574	-1.656700	202.75	2.00	204.75
OP 46	53.641952	-1.657848	213.29	2.00	215.29
OP 47	53.641869	-1.659308	215.90	2.00	217.90
OP 48	53.642912	-1.650521	183.78	2.00	185.78
OP 49	53.641799	-1.647881	178.15	2.00	180.15
OP 50	53.640037	-1.648203	198.04	2.00	200.04
OP 51	53.639637	-1.648922	201.39	2.00	203.39
OP 52	53.639649	-1.650488	205.75	2.00	207.75

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
PV array 1	15.0	180.0	2,067	63,725	-	-
PV array 2	15.0	180.0	1,925	30,400	-	-
PV array 3	15.0	180.0	101	89,379	-	-
PV array 4	15.0	180.0	3,400	9,064	-	-
PV array 5	15.0	180.0	6,529	30,612	-	-

Distinct glare per month

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

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
pv-array-1 (green)	0	0	61	64	3	0	1	9	117	0	0	0
pv-array-1 (yellow)	0	0	650	1861	2910	2967	3019	2362	1131	48	0	0
pv-array-2 (green)	0	0	107	153	18	0	3	85	194	0	0	0
pv-array-2 (yellow)	0	0	440	1196	1336	1907	1579	1197	854	35	0	0
pv-array-3 (green)	0	0	0	5	0	0	0	5	0	0	0	0
pv-array-3 (yellow)	0	0	574	1640	2254	2620	2529	1934	982	21	0	0
pv-array-4 (green)	0	0	221	274	0	0	0	114	378	0	0	0
pv-array-4 (yellow)	0	0	177	950	496	54	304	874	473	0	0	0
pv-array-5 (green)	0	0	142	319	0	0	0	138	324	0	0	0
pv-array-5 (yellow)	0	0	238	1064	2004	1751	2009	1535	463	1	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

PV array 1 potential temporary after-image

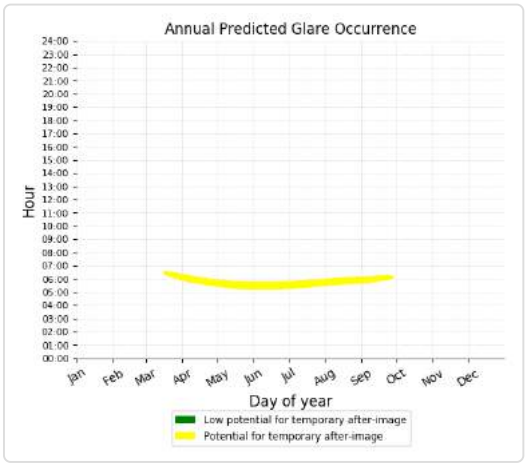
Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	2968
OP: OP 2	0	2969
OP: OP 3	0	3142
OP: OP 4	0	3207
OP: OP 5	0	4229
OP: OP 6	0	0
OP: OP 7	0	1744
OP: OP 8	26	1845
OP: OP 9	0	1056
OP: OP 10	9	2529
OP: OP 11	43	2947
OP: OP 12	72	2923
OP: OP 13	86	2991

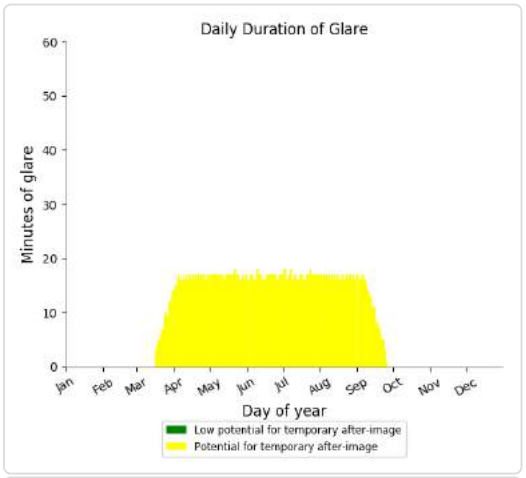
OP: OP 14	83	2468
OP: OP 15	17	1851
OP: OP 16	0	4446
OP: OP 17	0	4794
OP: OP 18	0	5063
OP: OP 19	55	289
OP: OP 20	72	322
OP: OP 21	98	864
OP: OP 22	107	816
OP: OP 23	175	1171
OP: OP 24	186	1144
OP: OP 25	191	1088
OP: OP 26	192	599
OP: OP 27	215	346
OP: OP 28	222	327
OP: OP 29	218	314
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	67
OP: OP 47	0	71
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	3705
OP: OP 51	0	1430
OP: OP 52	0	0

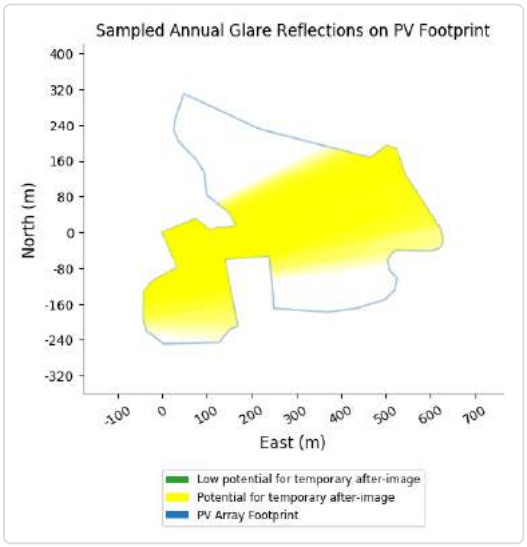
PV array 1 - OP Receptor (OP 1)

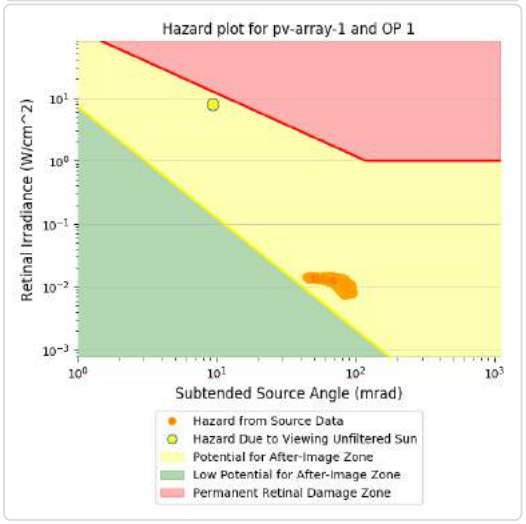
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,968 minutes of "yellow" glare with potential to cause temporary after-image.





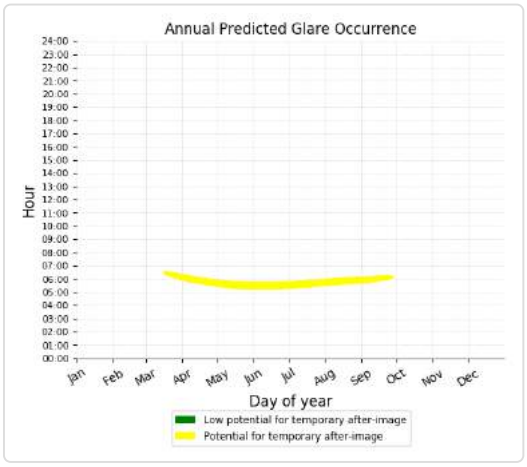


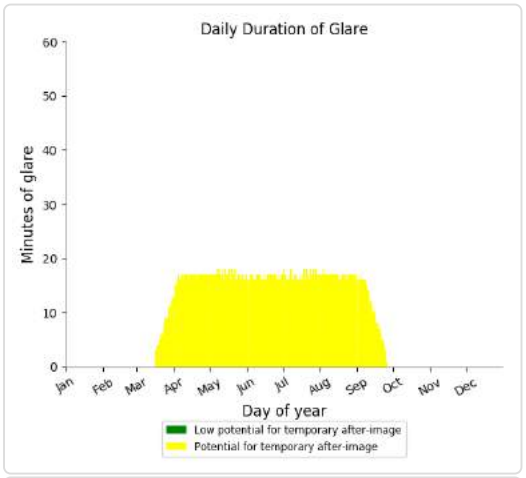


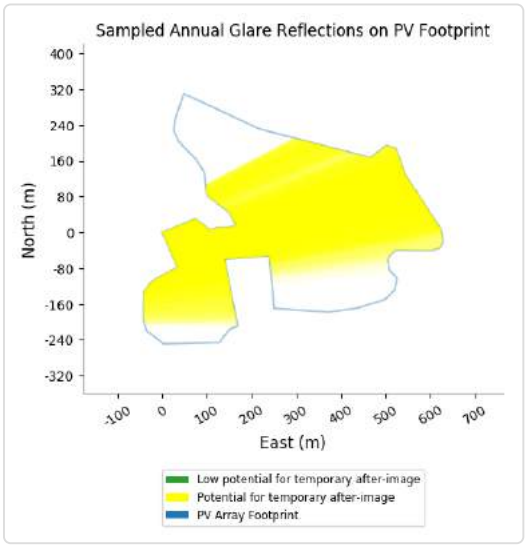
PV array 1 - OP Receptor (OP 2)

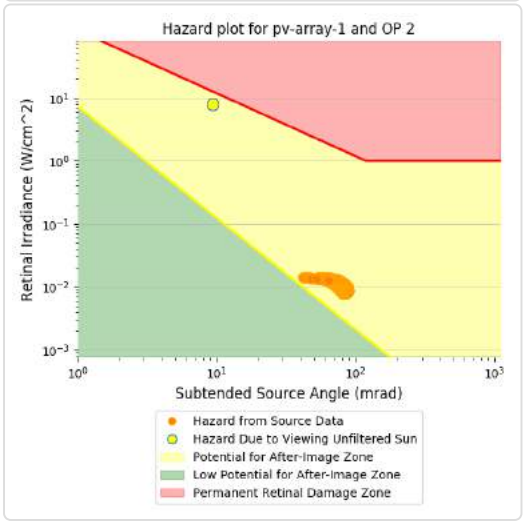
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,969 minutes of "yellow" glare with potential to cause temporary after-image.





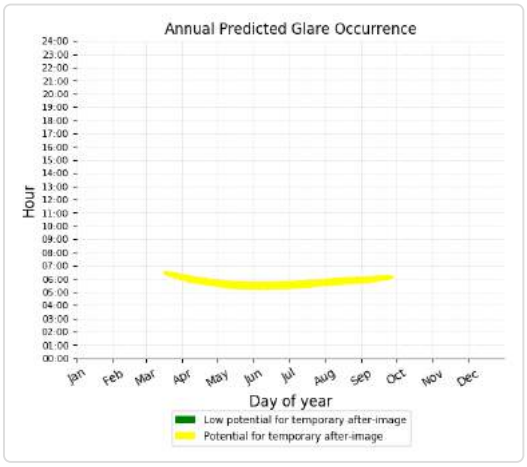


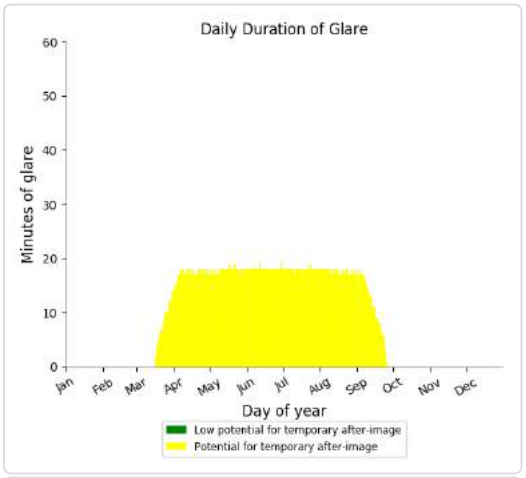


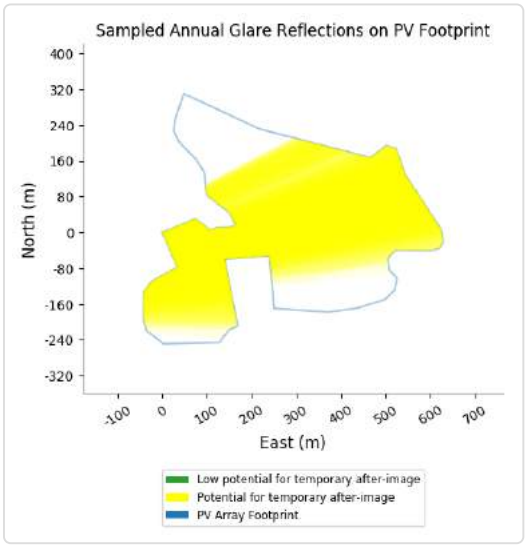
PV array 1 - OP Receptor (OP 3)

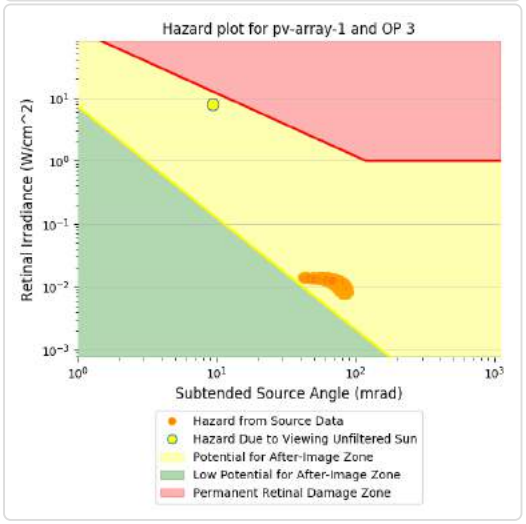
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,142 minutes of "yellow" glare with potential to cause temporary after-image.





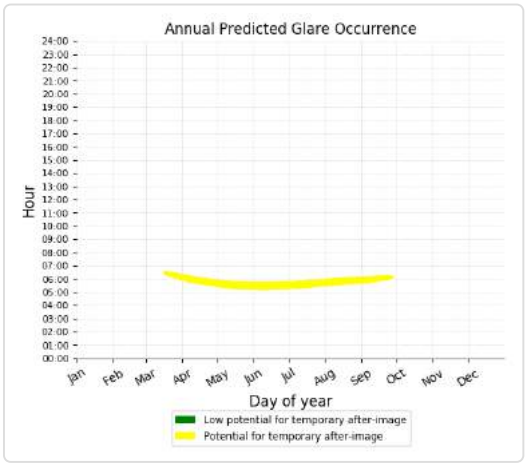


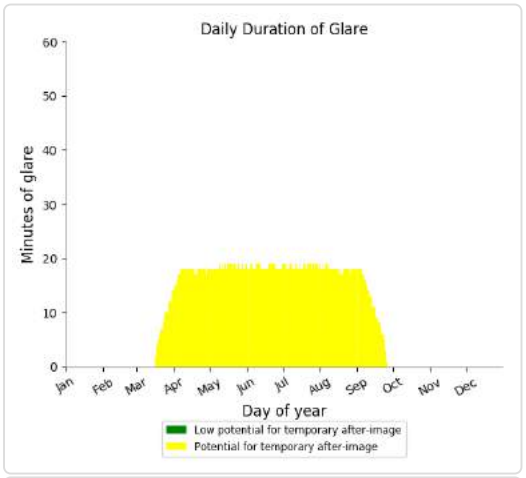


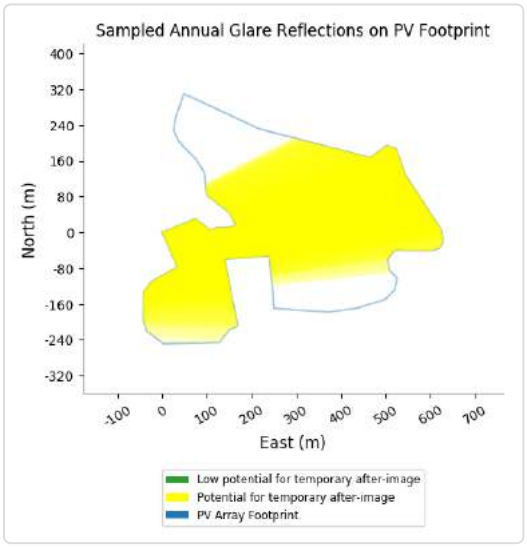
PV array 1 - OP Receptor (OP 4)

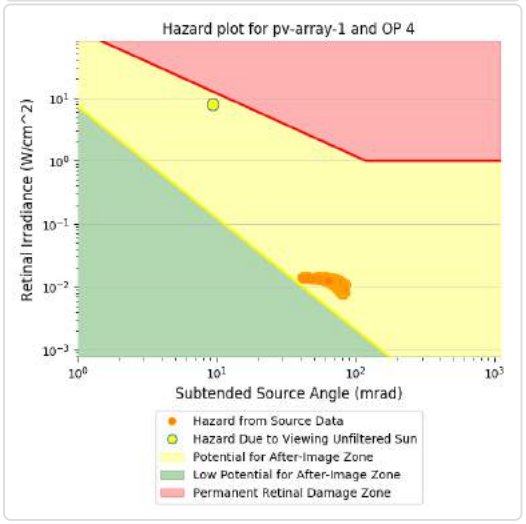
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,207 minutes of "yellow" glare with potential to cause temporary after-image.





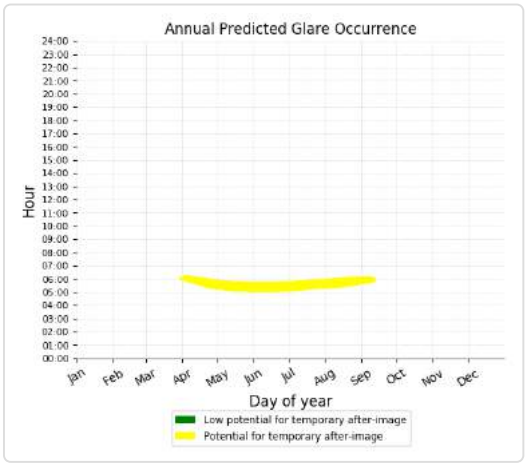


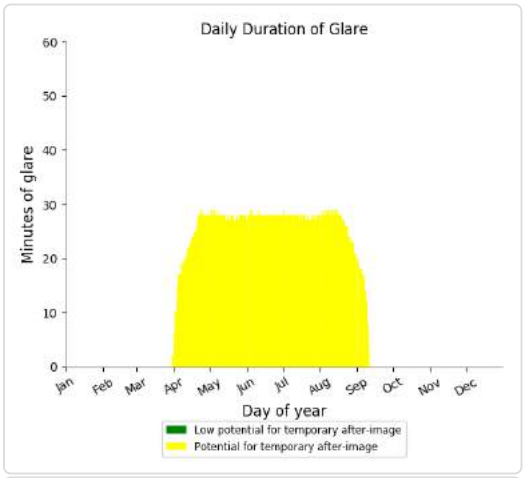


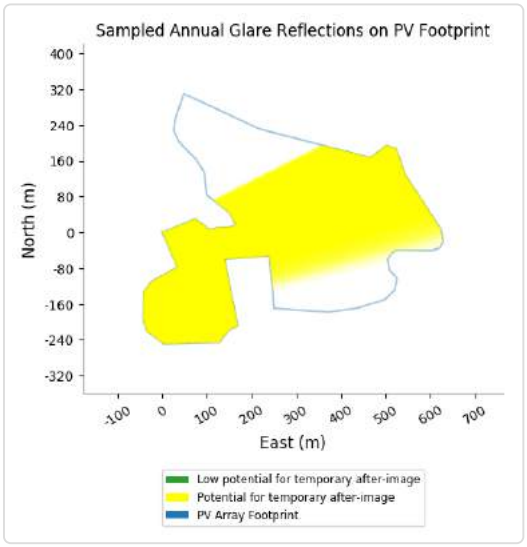
PV array 1 - OP Receptor (OP 5)

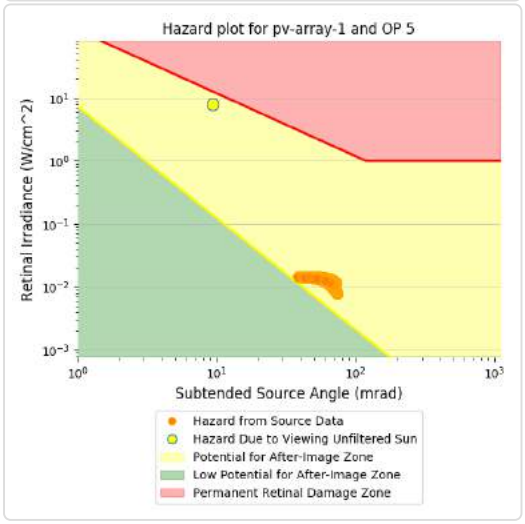
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 4,229 minutes of "yellow" glare with potential to cause temporary after-image.









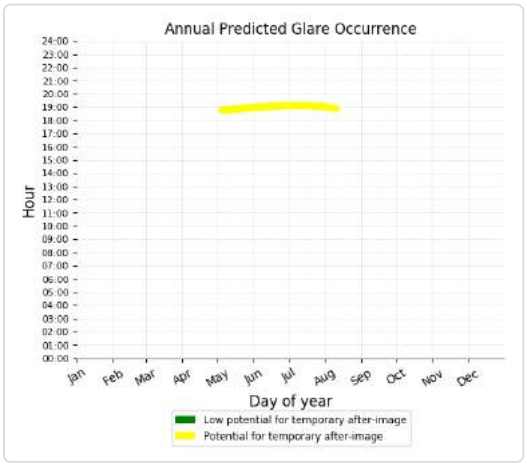
PV array 1 - OP Receptor (OP 6)

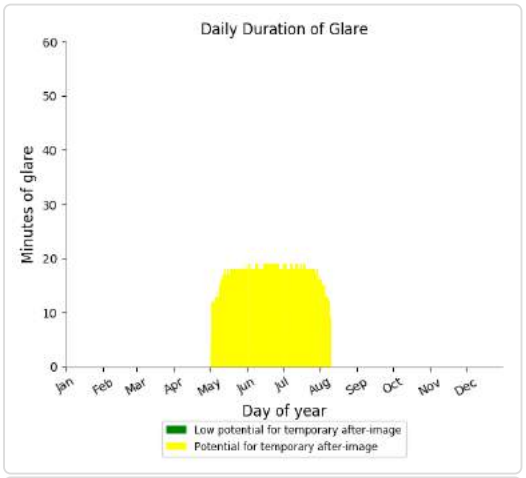
No glare found

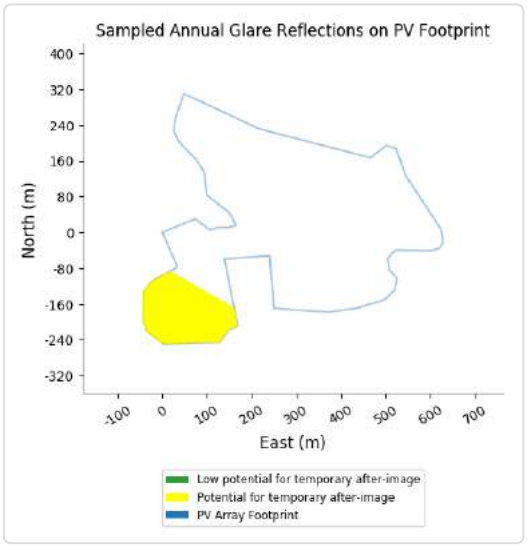
PV array 1 - OP Receptor (OP 7)

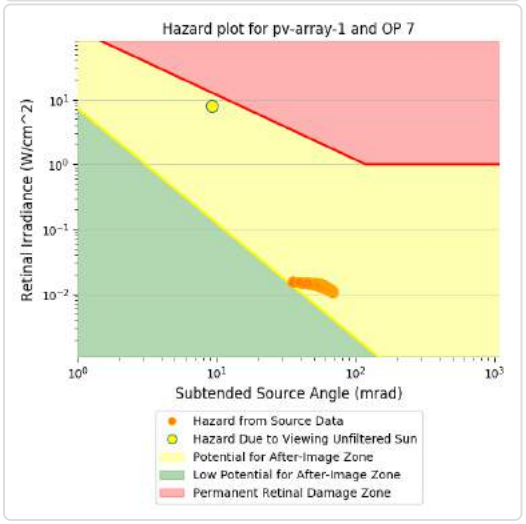
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,744 minutes of "yellow" glare with potential to cause temporary after-image.





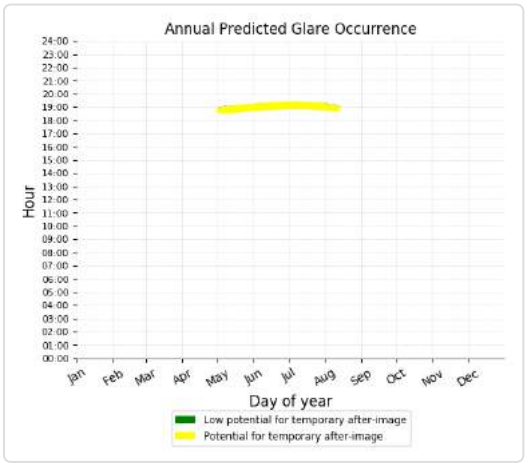


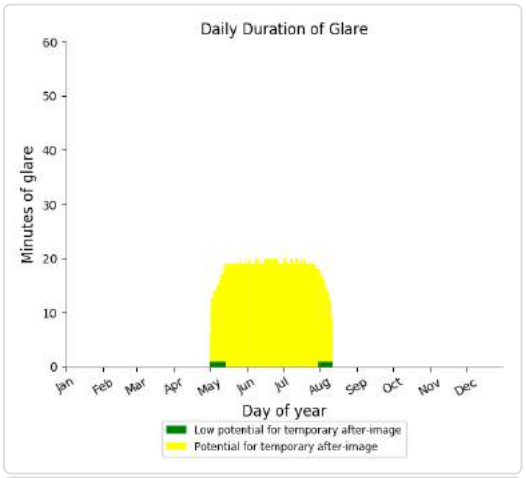


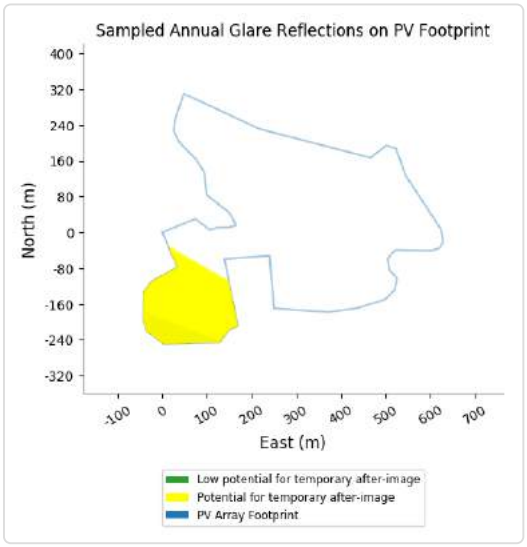
PV array 1 - OP Receptor (OP 8)

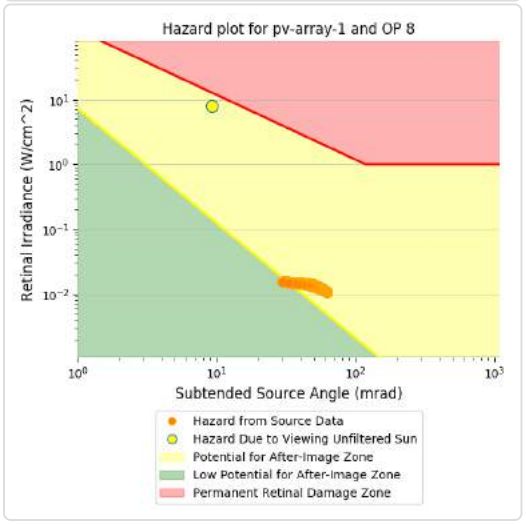
PV array is expected to produce the following glare for receptors at this location:

- 26 minutes of "green" glare with low potential to cause temporary after-image.
- 1,845 minutes of "yellow" glare with potential to cause temporary after-image.





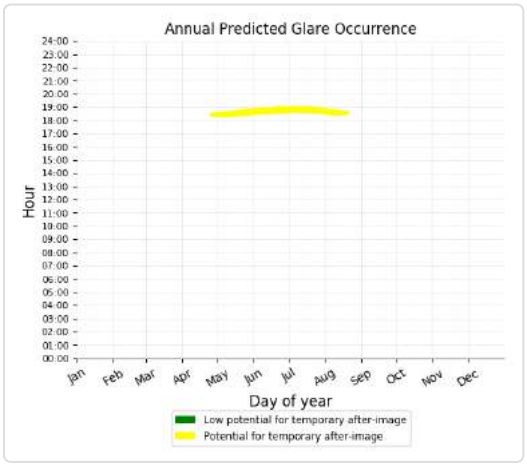


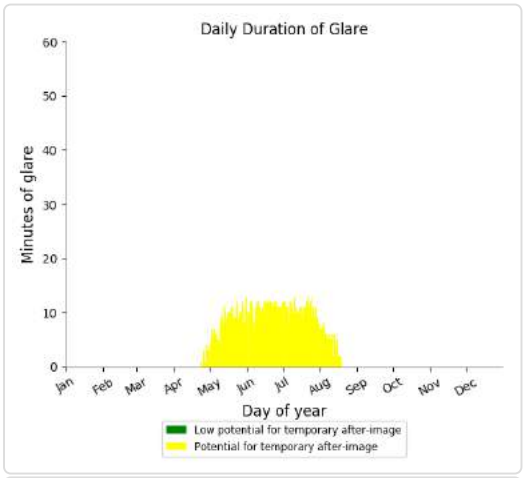


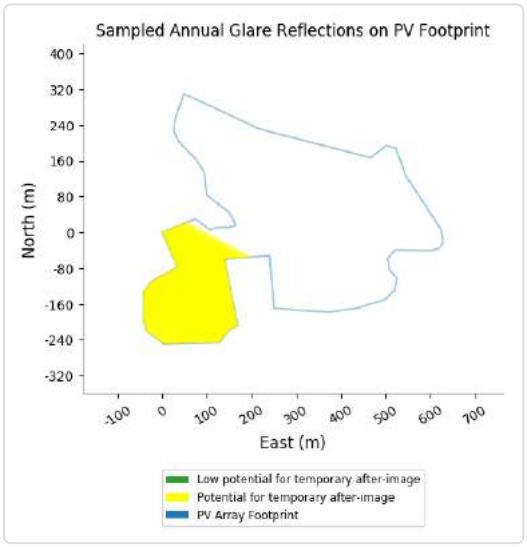
PV array 1 - OP Receptor (OP 9)

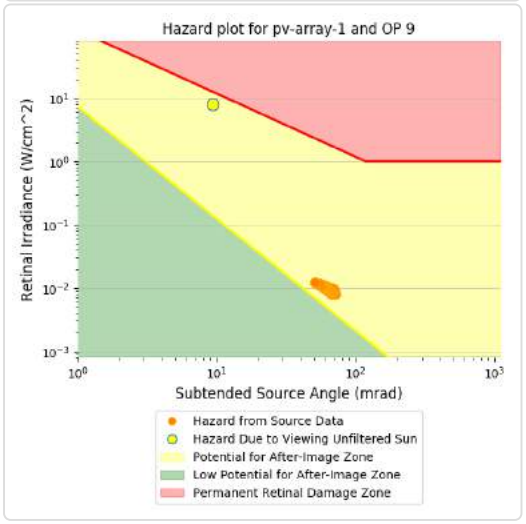
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,056 minutes of "yellow" glare with potential to cause temporary after-image.





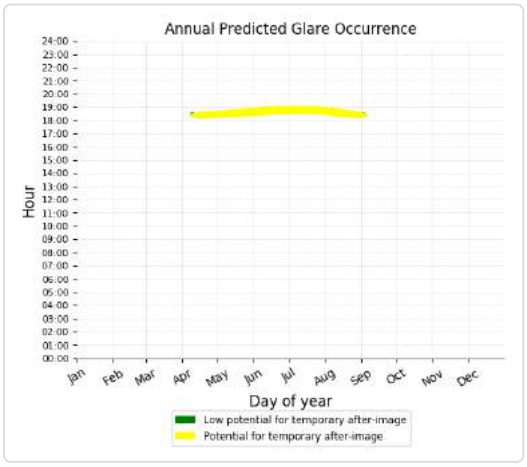


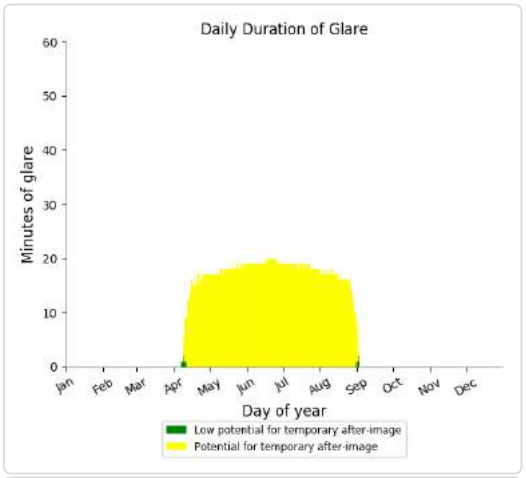


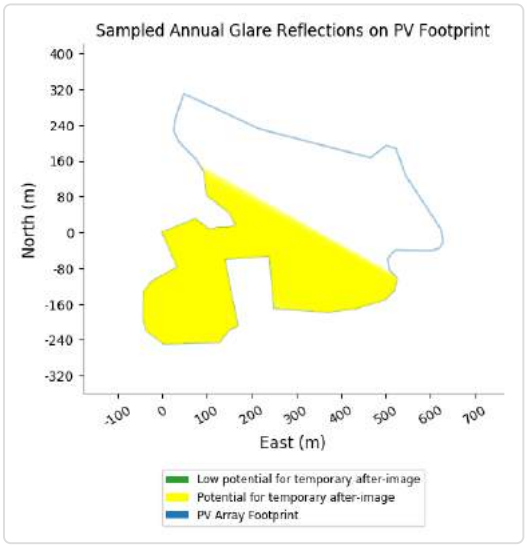
PV array 1 - OP Receptor (OP 10)

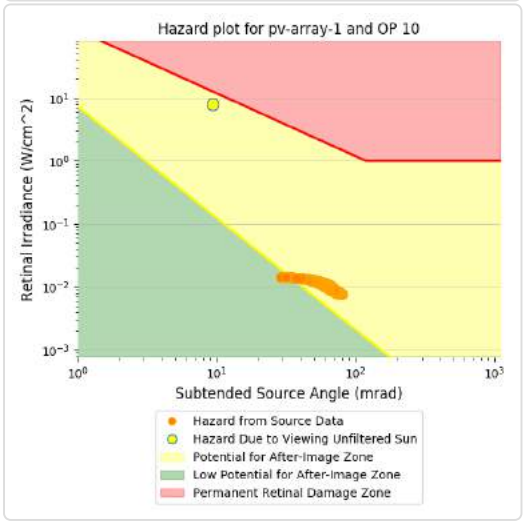
PV array is expected to produce the following glare for receptors at this location:

- 9 minutes of "green" glare with low potential to cause temporary after-image.
- 2,529 minutes of "yellow" glare with potential to cause temporary after-image.





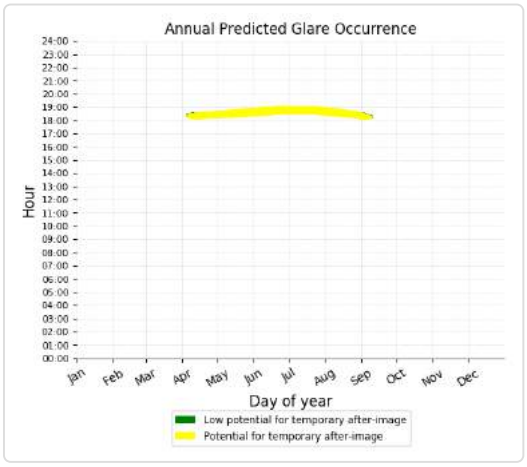


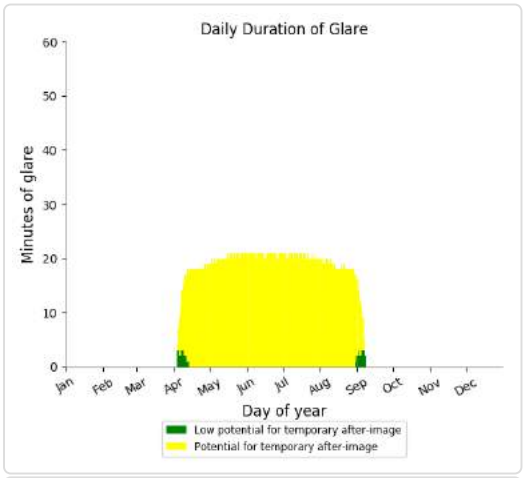


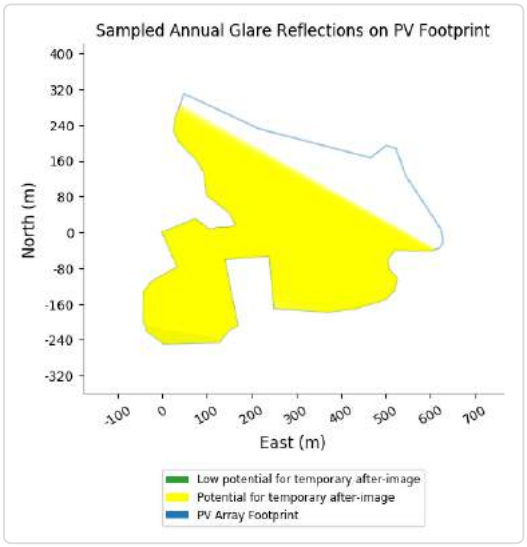
PV array 1 - OP Receptor (OP 11)

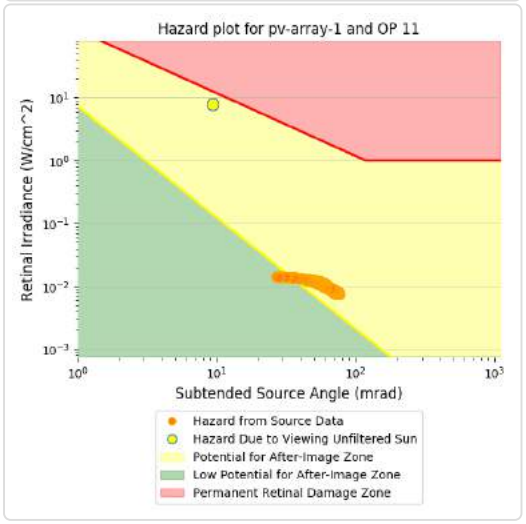
PV array is expected to produce the following glare for receptors at this location:

- 43 minutes of "green" glare with low potential to cause temporary after-image.
- 2,947 minutes of "yellow" glare with potential to cause temporary after-image.





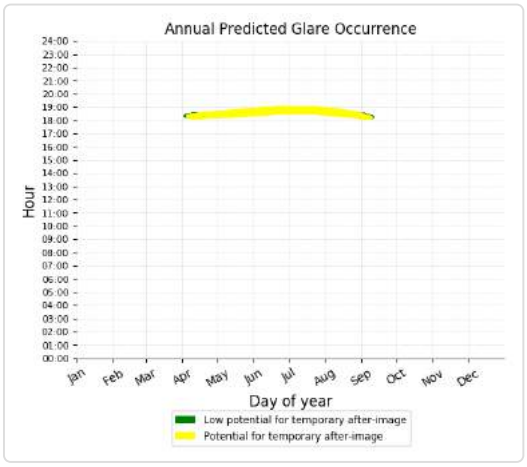


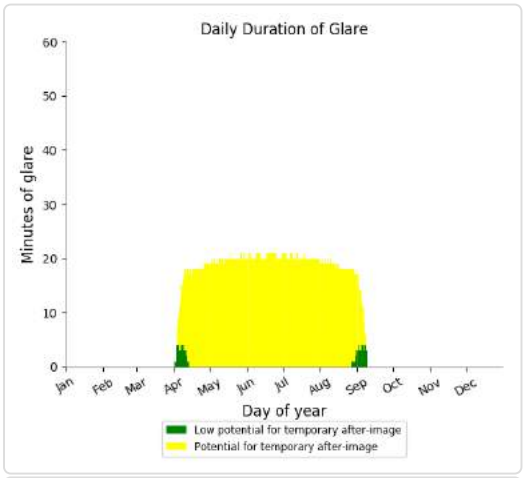


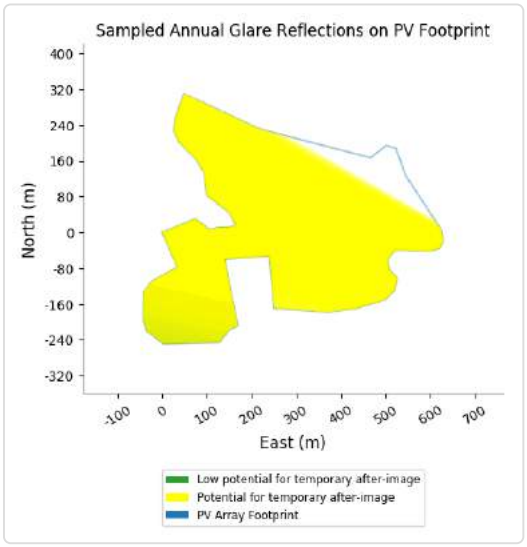
PV array 1 - OP Receptor (OP 12)

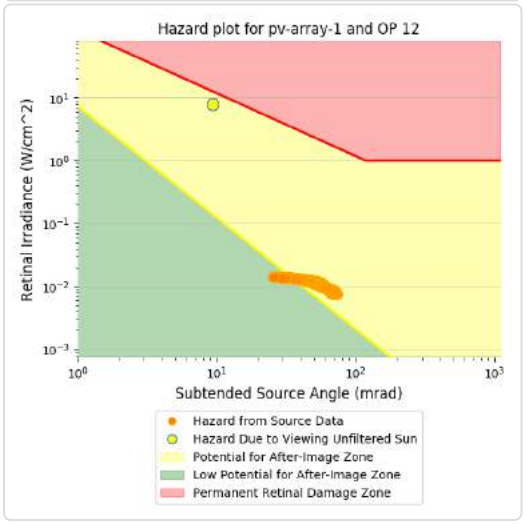
PV array is expected to produce the following glare for receptors at this location:

- 72 minutes of "green" glare with low potential to cause temporary after-image.
- 2,923 minutes of "yellow" glare with potential to cause temporary after-image.





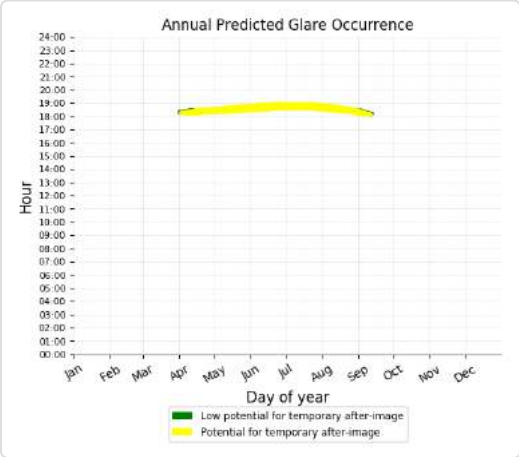


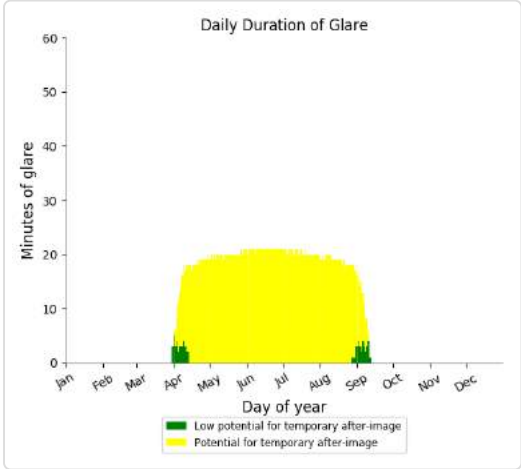


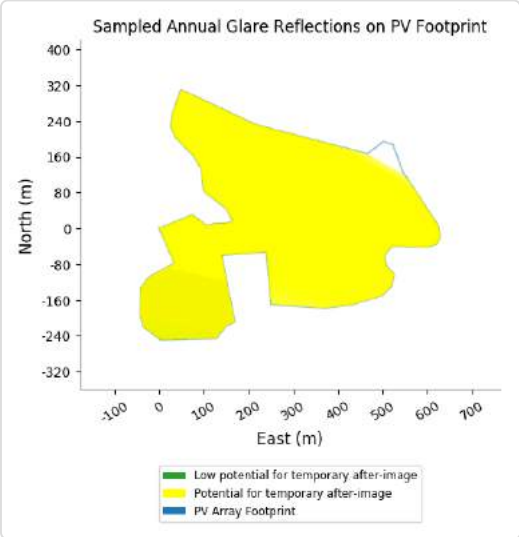
PV array 1 - OP Receptor (OP 13)

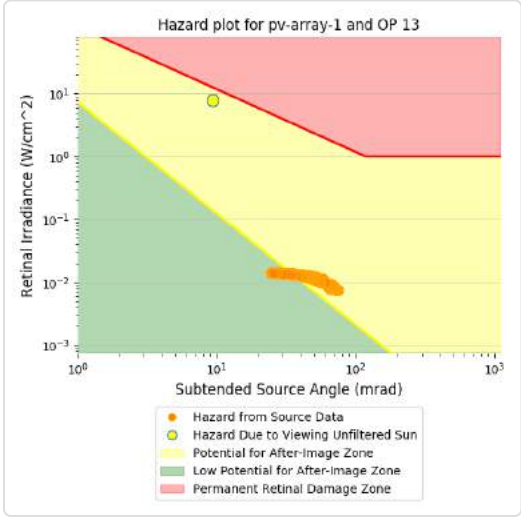
PV array is expected to produce the following glare for receptors at this location:

- 86 minutes of "green" glare with low potential to cause temporary after-image.
- 2,991 minutes of "yellow" glare with potential to cause temporary after-image.





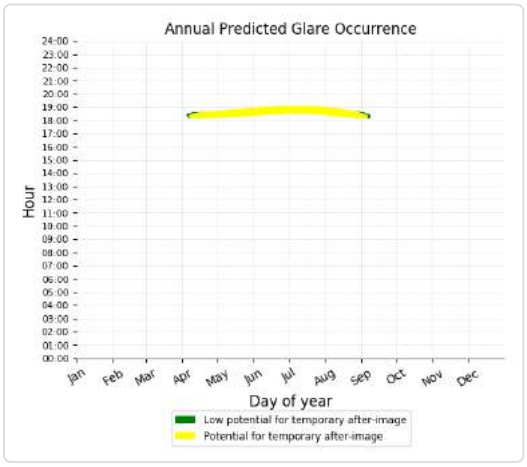


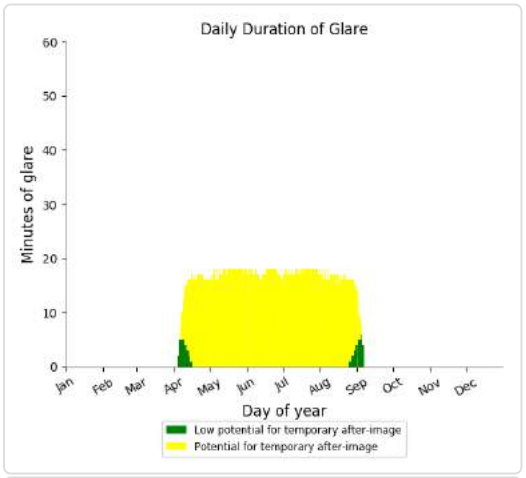


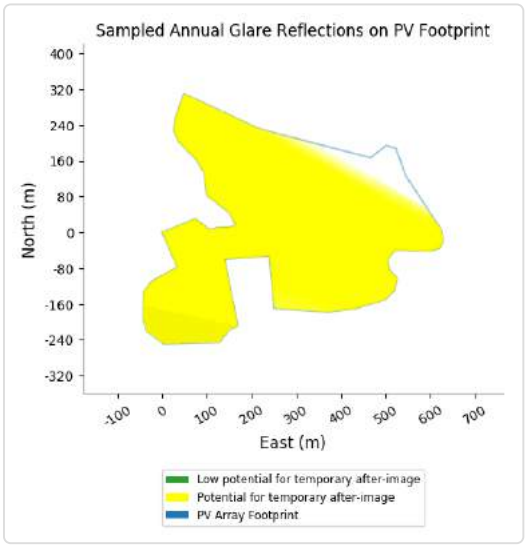
PV array 1 - OP Receptor (OP 14)

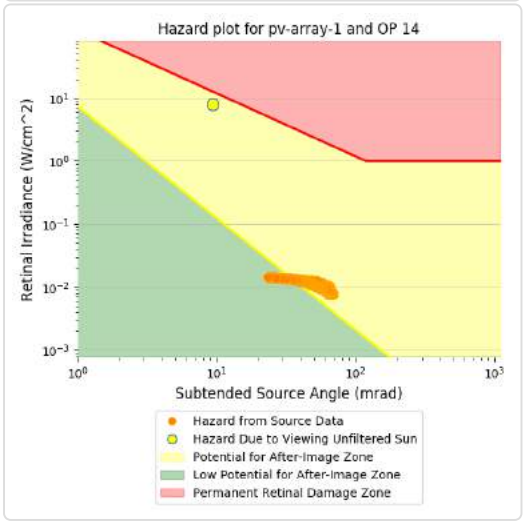
PV array is expected to produce the following glare for receptors at this location:

- 83 minutes of "green" glare with low potential to cause temporary after-image.
- 2,468 minutes of "yellow" glare with potential to cause temporary after-image.





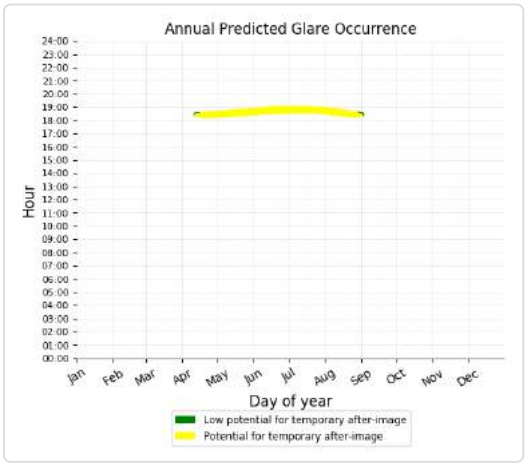


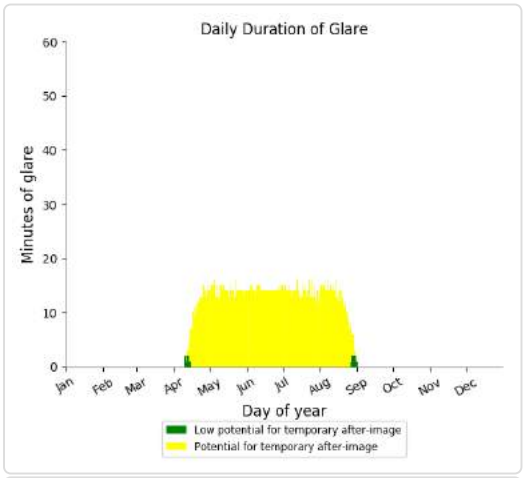


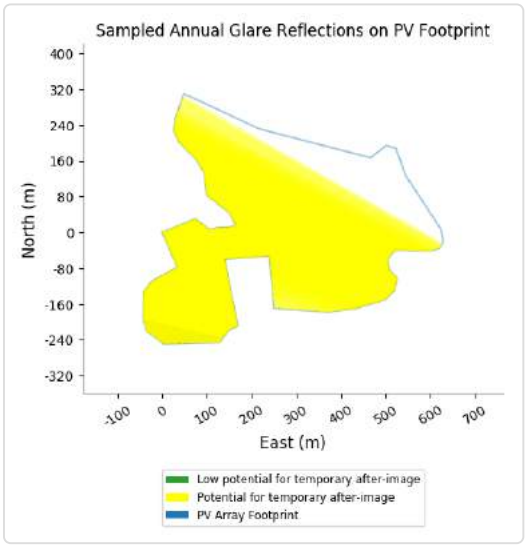
PV array 1 - OP Receptor (OP 15)

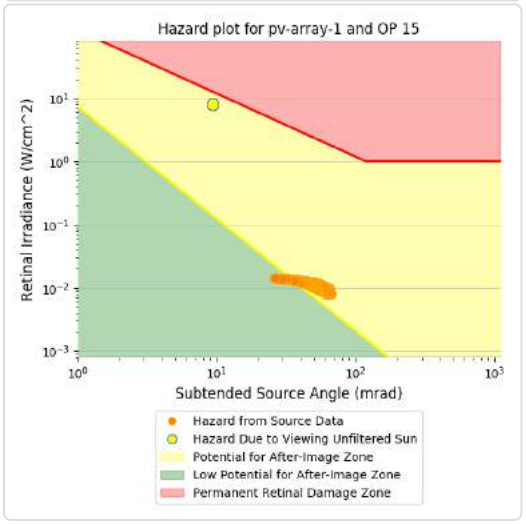
PV array is expected to produce the following glare for receptors at this location:

- 17 minutes of "green" glare with low potential to cause temporary after-image.
- 1,851 minutes of "yellow" glare with potential to cause temporary after-image.





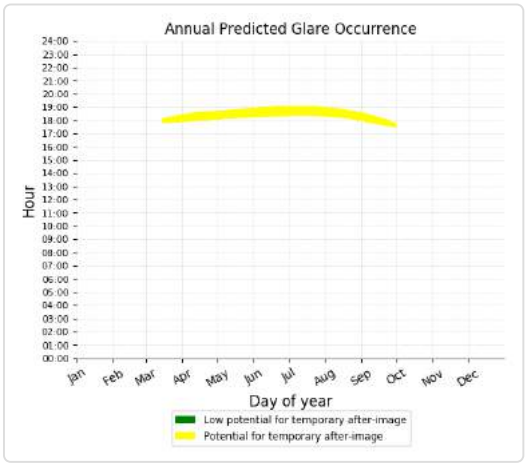


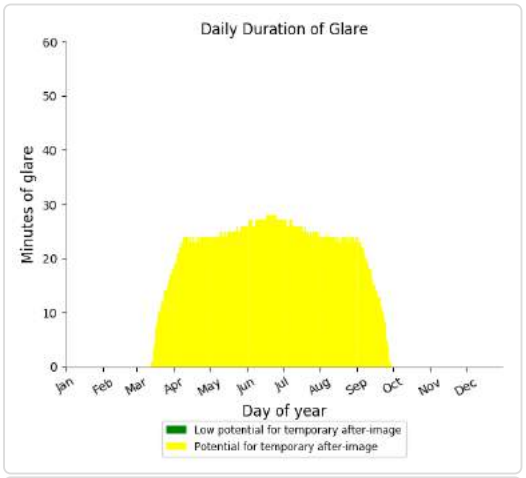


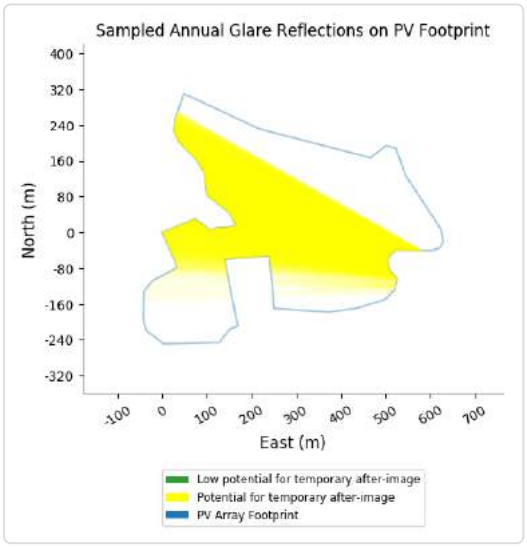
PV array 1 - OP Receptor (OP 16)

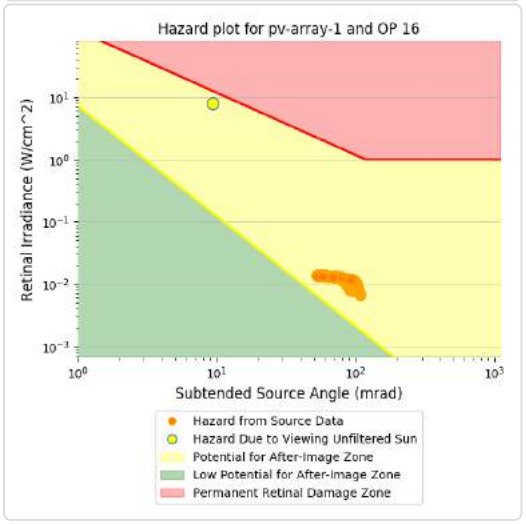
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 4,446 minutes of "yellow" glare with potential to cause temporary after-image.





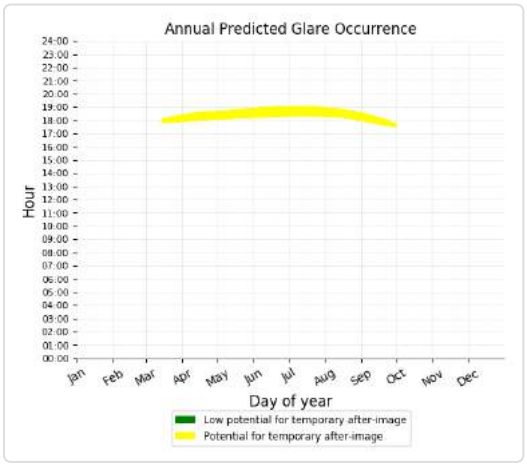


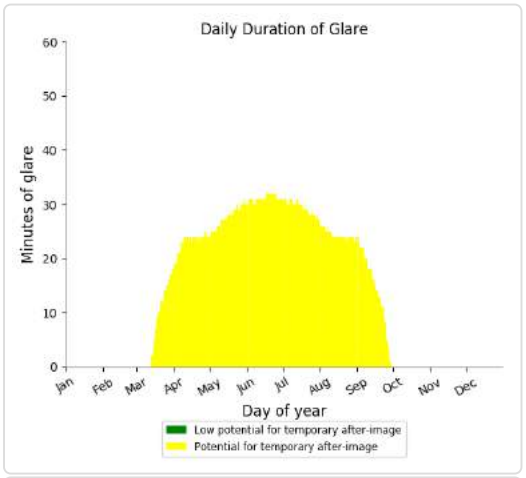


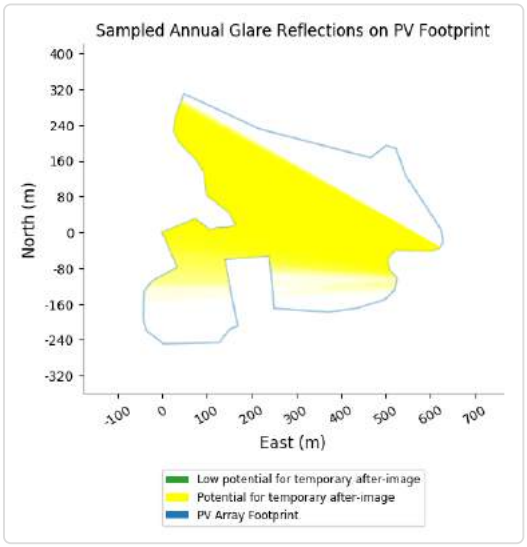
PV array 1 - OP Receptor (OP 17)

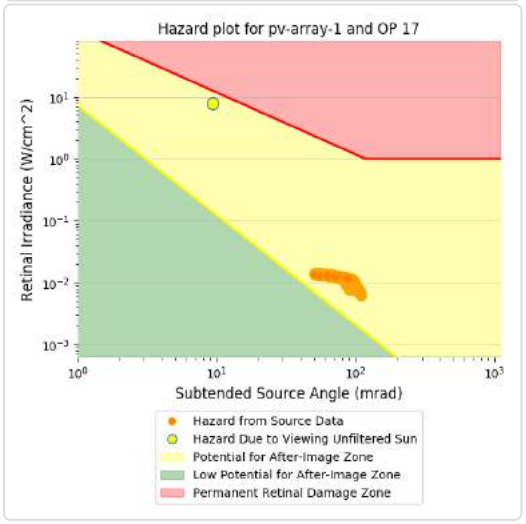
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 4,794 minutes of "yellow" glare with potential to cause temporary after-image.





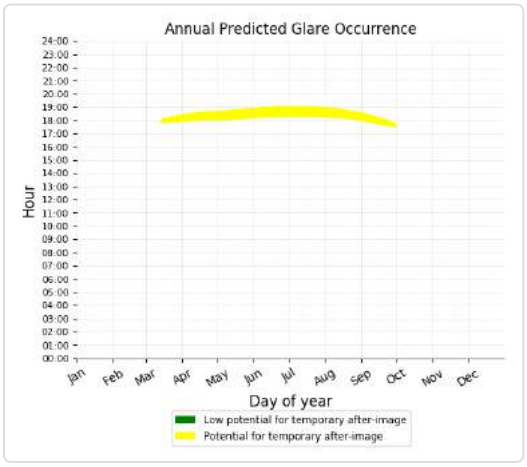


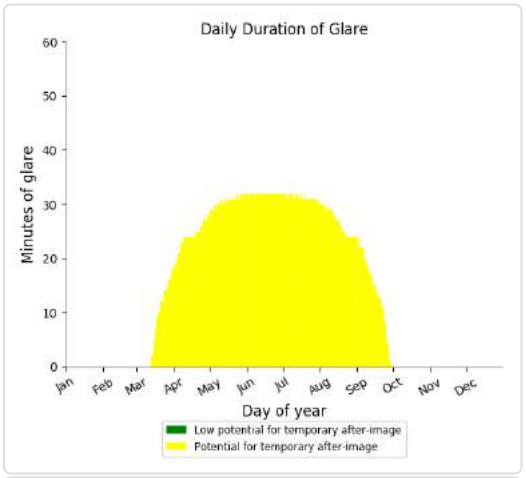


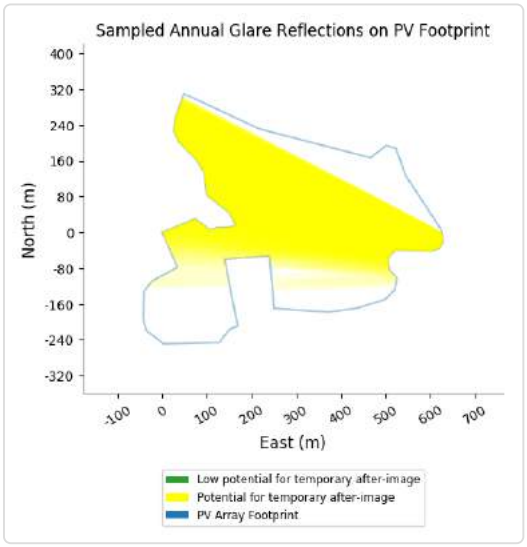
PV array 1 - OP Receptor (OP 18)

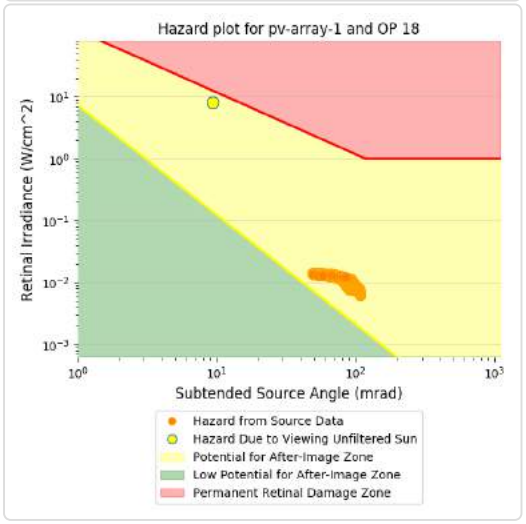
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 5,063 minutes of "yellow" glare with potential to cause temporary after-image.





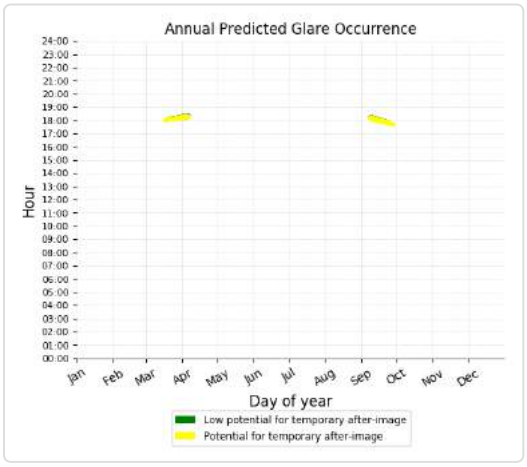


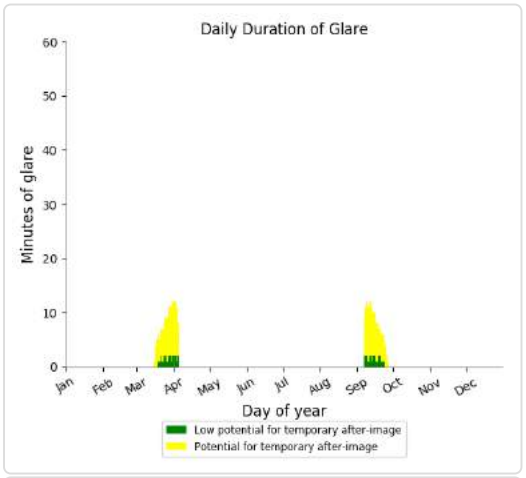


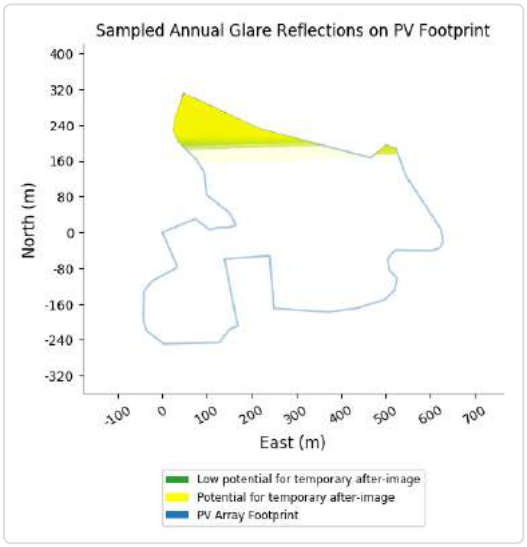
PV array 1 - OP Receptor (OP 19)

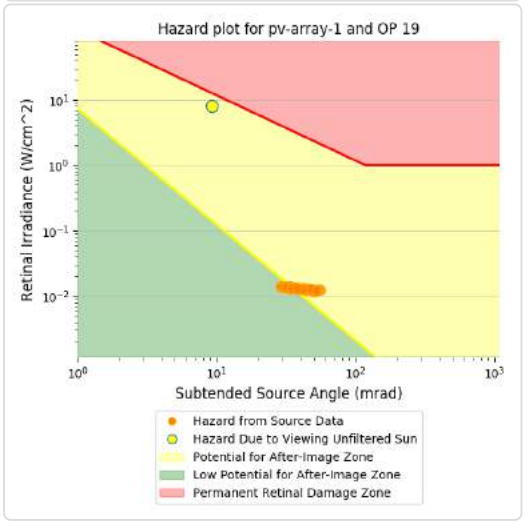
PV array is expected to produce the following glare for receptors at this location:

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





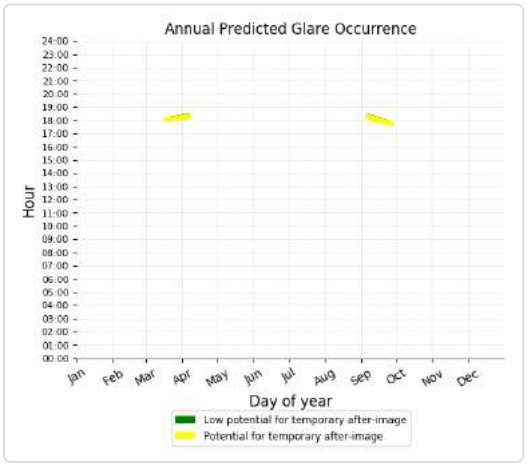


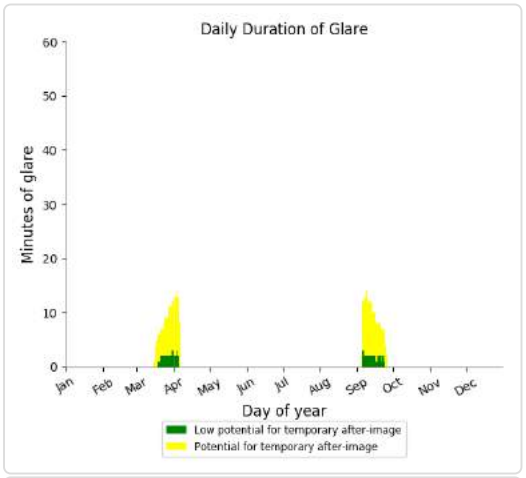


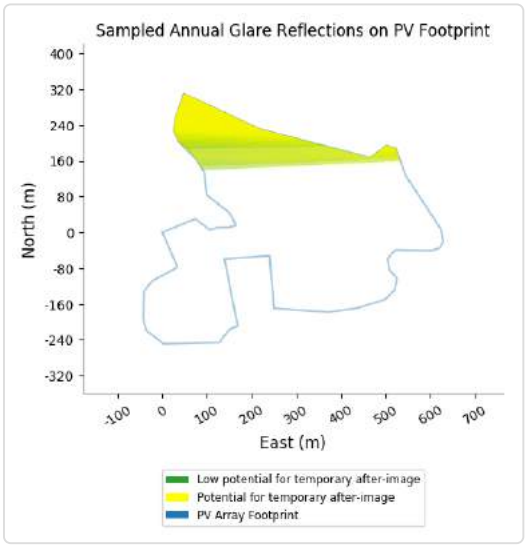
PV array 1 - OP Receptor (OP 20)

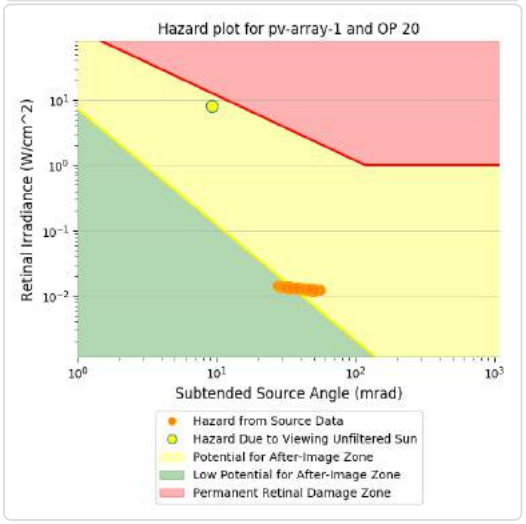
PV array is expected to produce the following glare for receptors at this location:

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





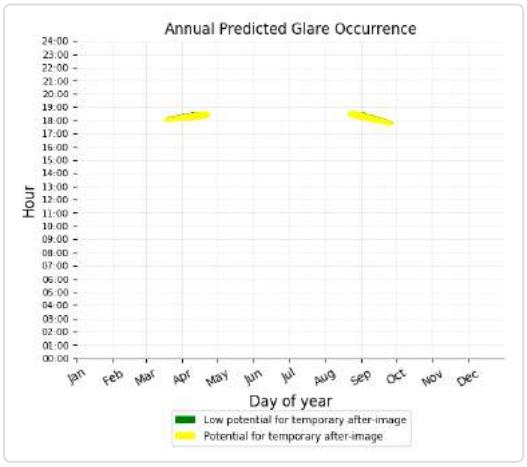


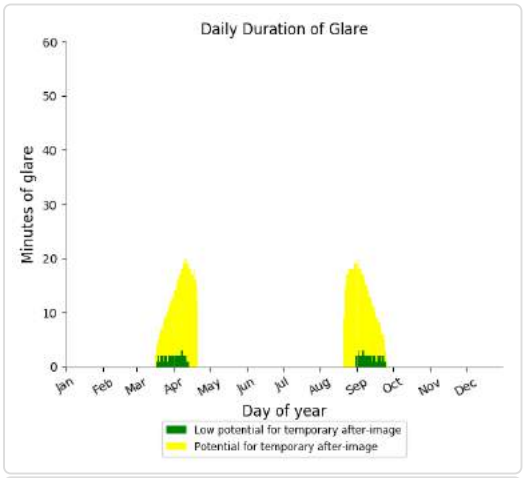


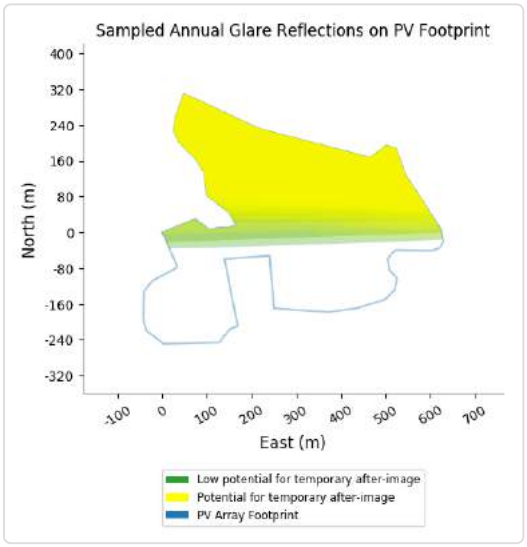
PV array 1 - OP Receptor (OP 21)

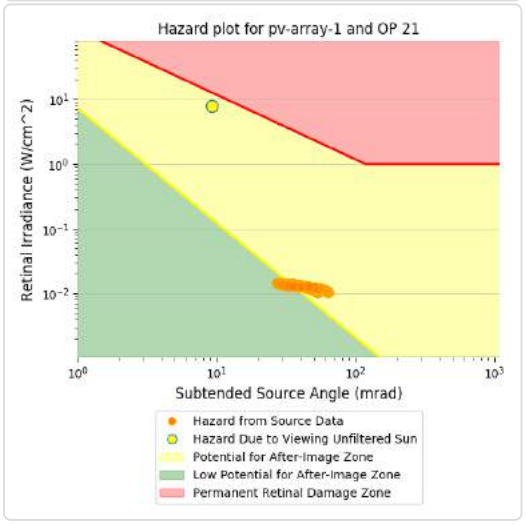
PV array is expected to produce the following glare for receptors at this location:

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





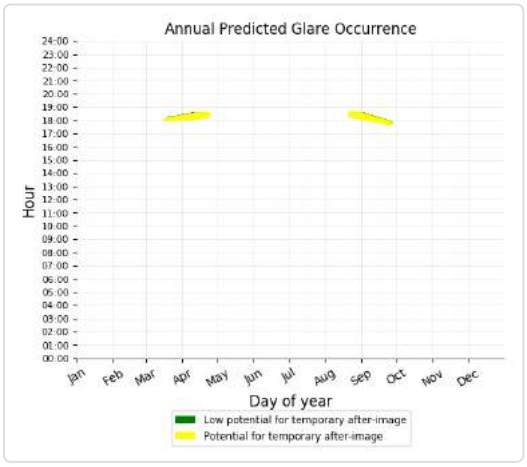


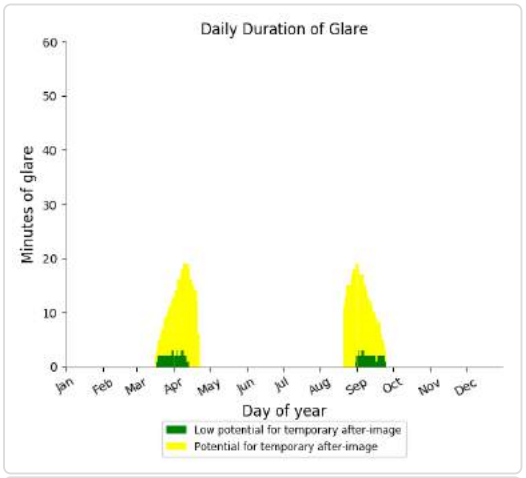


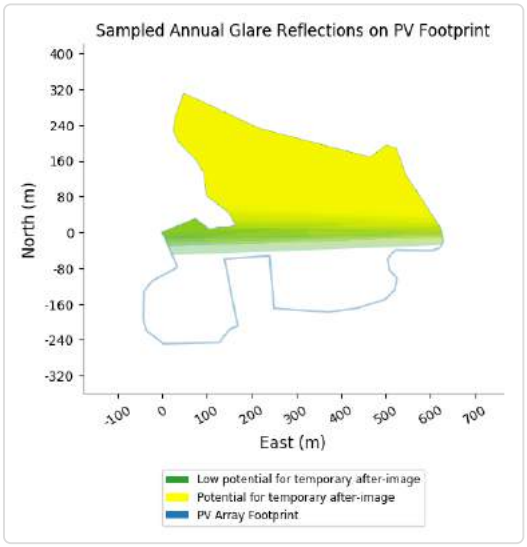
PV array 1 - OP Receptor (OP 22)

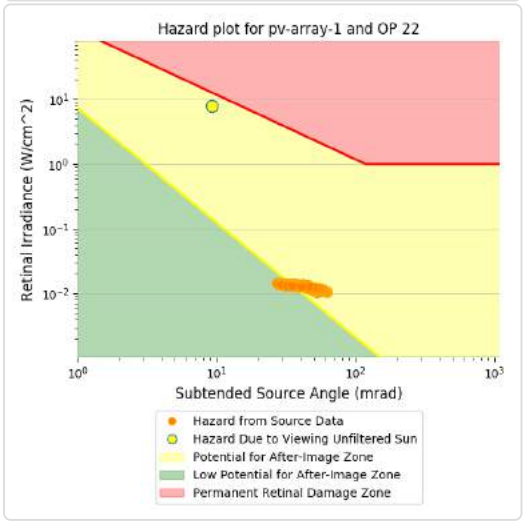
PV array is expected to produce the following glare for receptors at this location:

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





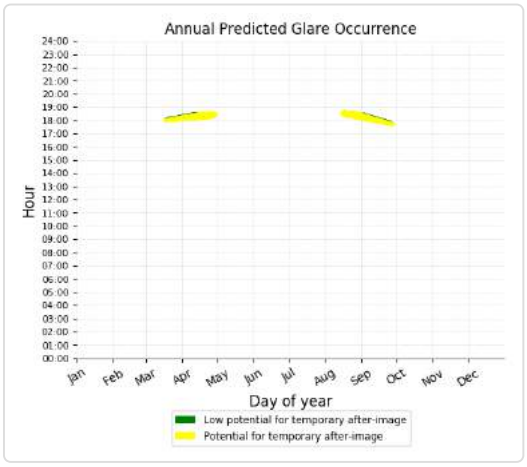


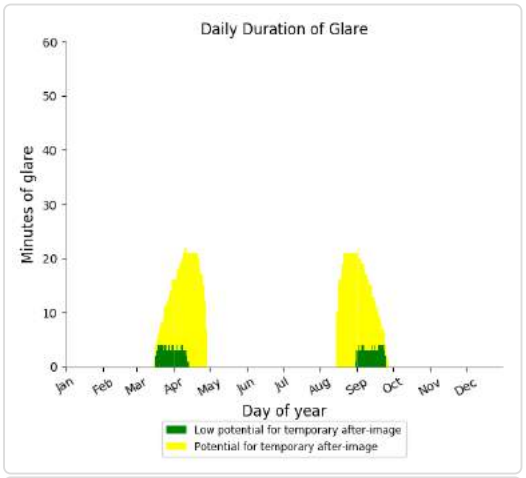


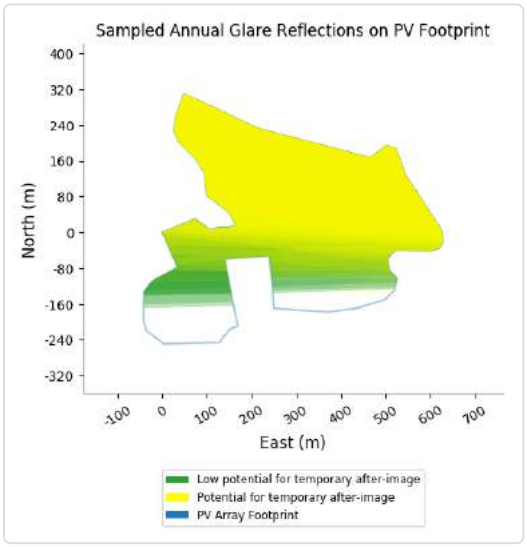
PV array 1 - OP Receptor (OP 23)

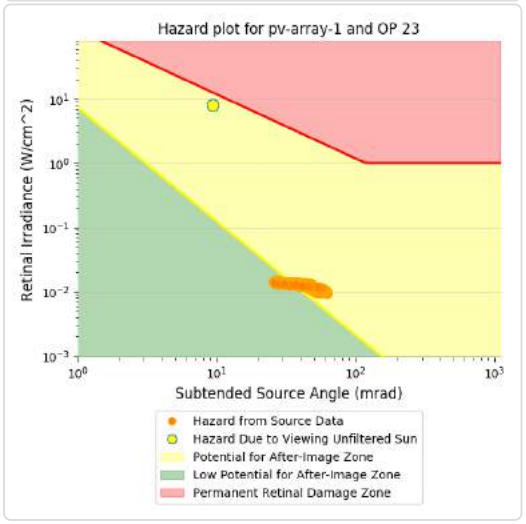
PV array is expected to produce the following glare for receptors at this location:

- 175 minutes of "green" glare with low potential to cause temporary after-image.
- 1,171 minutes of "yellow" glare with potential to cause temporary after-image.





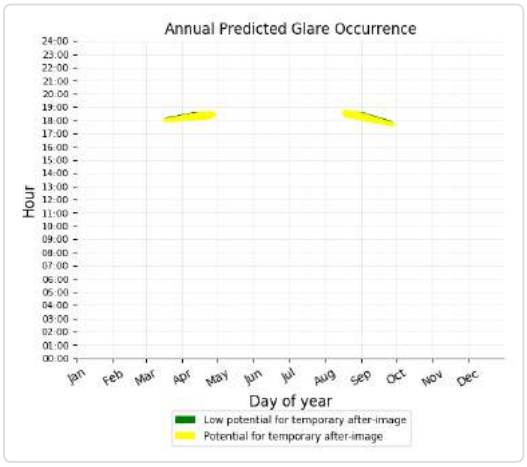


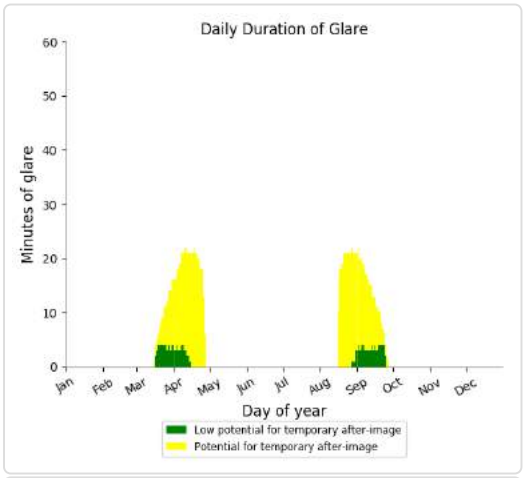


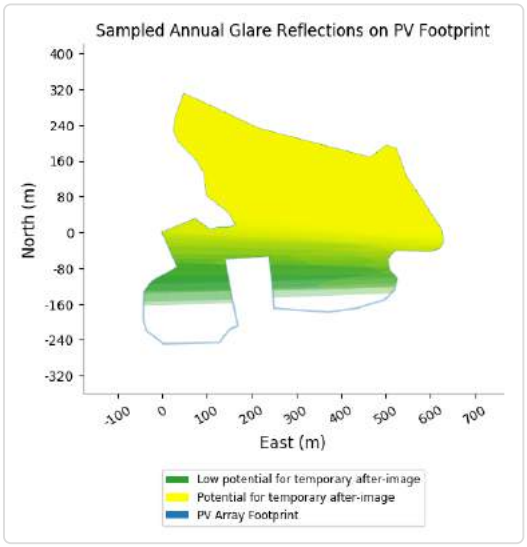
PV array 1 - OP Receptor (OP 24)

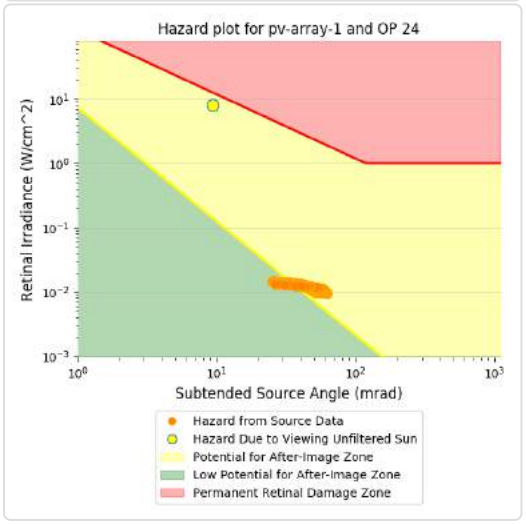
PV array is expected to produce the following glare for receptors at this location:

- 186 minutes of "green" glare with low potential to cause temporary after-image.
- 1,144 minutes of "yellow" glare with potential to cause temporary after-image.





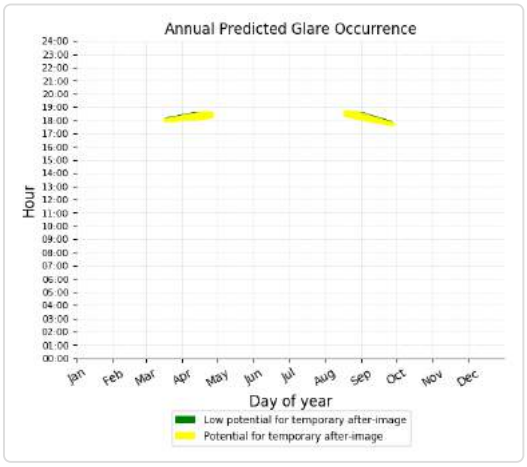


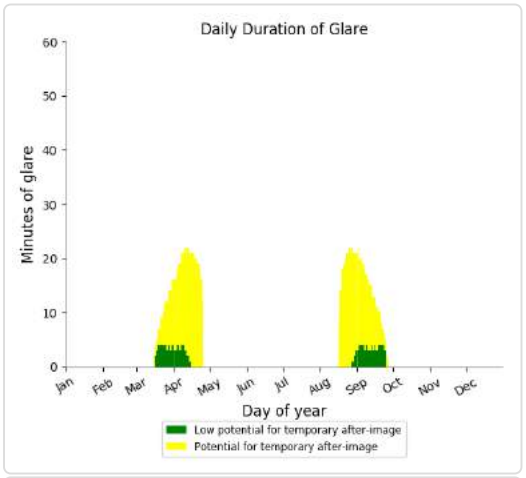


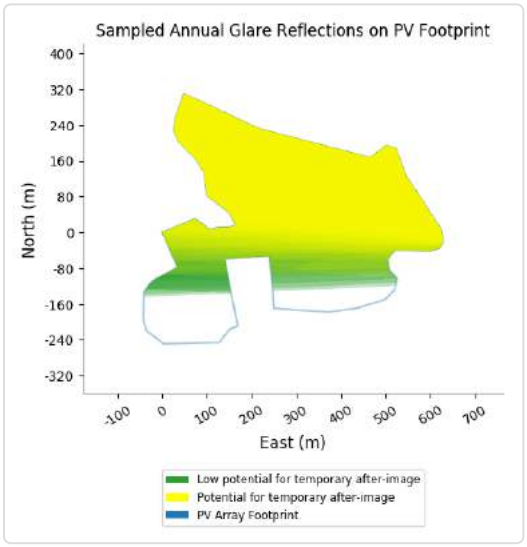
PV array 1 - OP Receptor (OP 25)

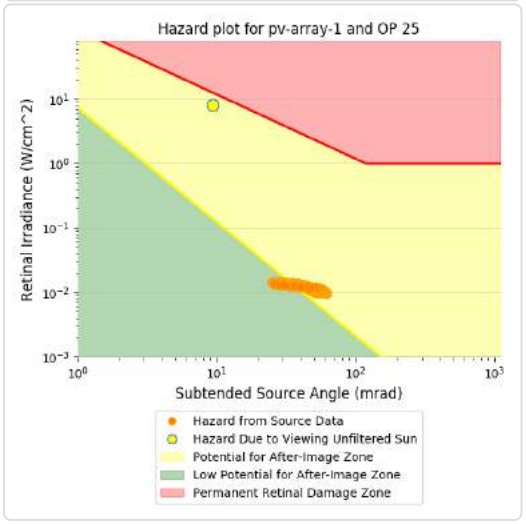
PV array is expected to produce the following glare for receptors at this location:

- 191 minutes of "green" glare with low potential to cause temporary after-image.
- 1,088 minutes of "yellow" glare with potential to cause temporary after-image.





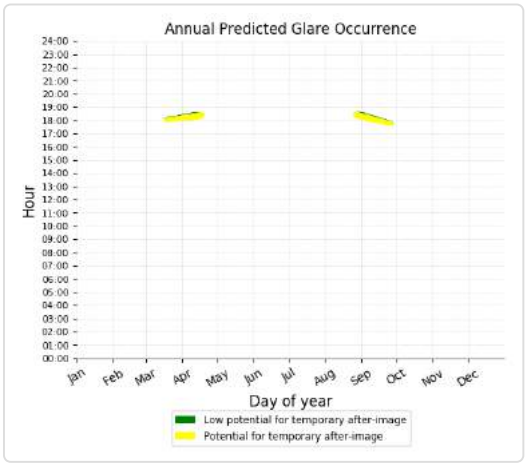


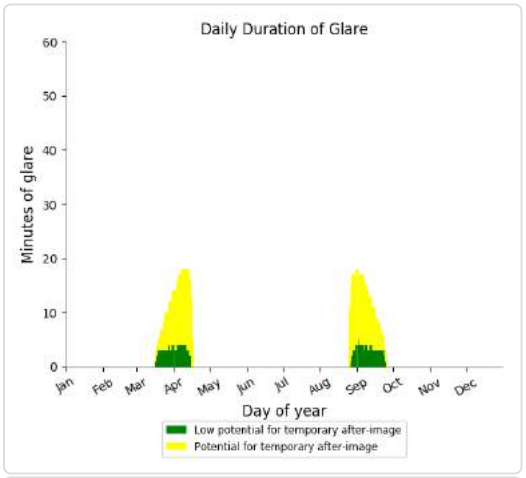


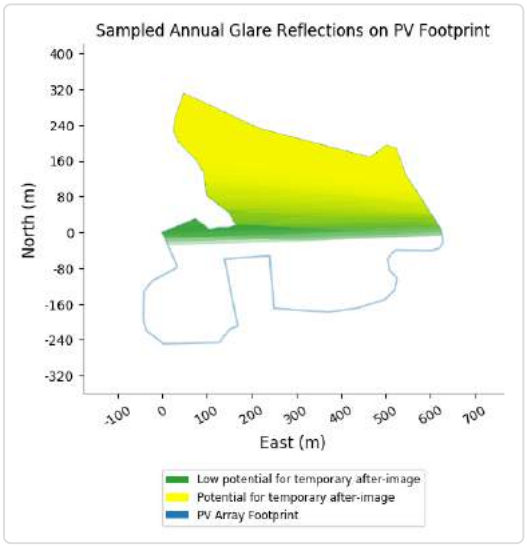
PV array 1 - OP Receptor (OP 26)

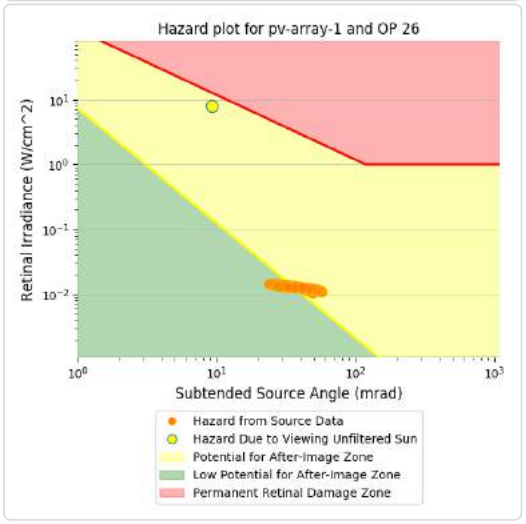
PV array is expected to produce the following glare for receptors at this location:

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





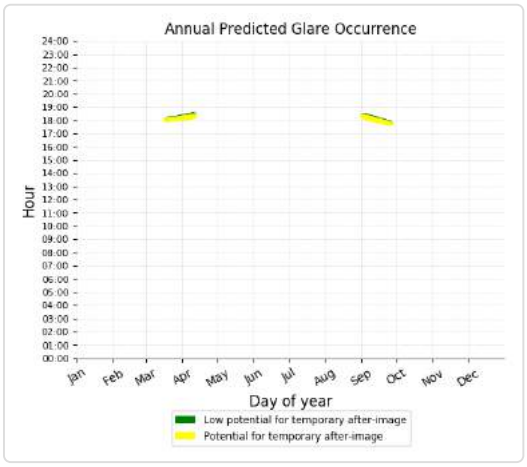


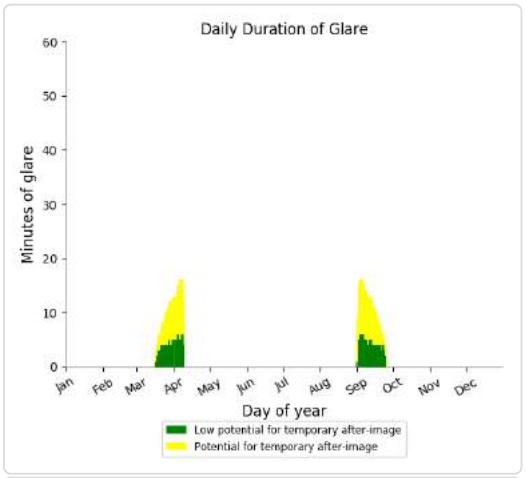


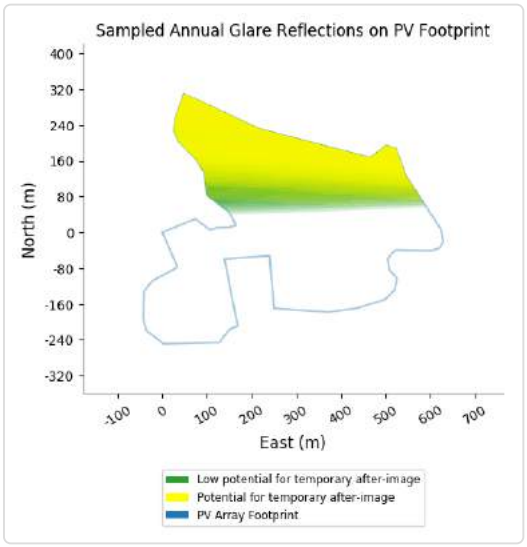
PV array 1 - OP Receptor (OP 27)

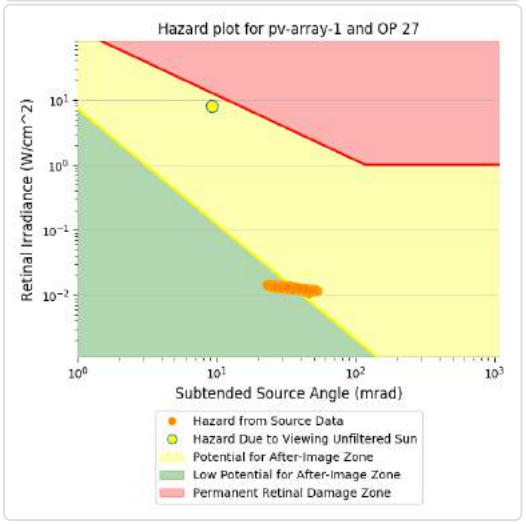
PV array is expected to produce the following glare for receptors at this location:

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





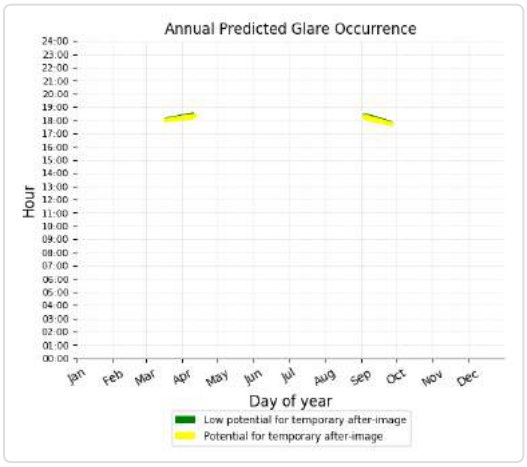


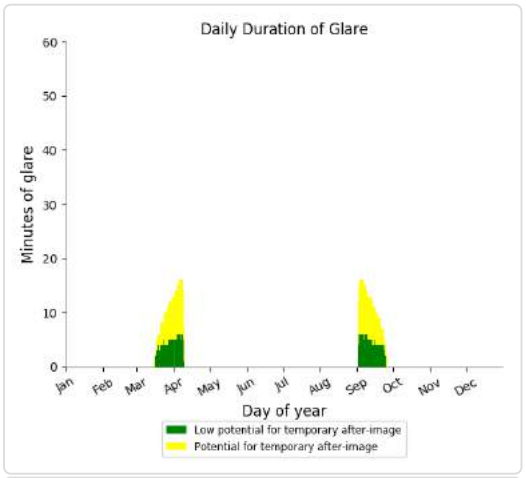


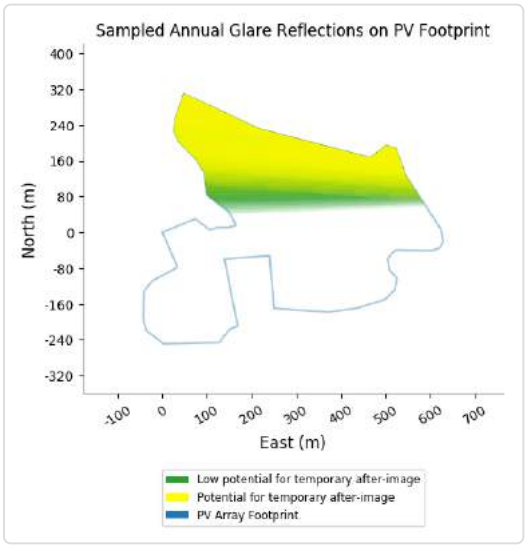
PV array 1 - OP Receptor (OP 28)

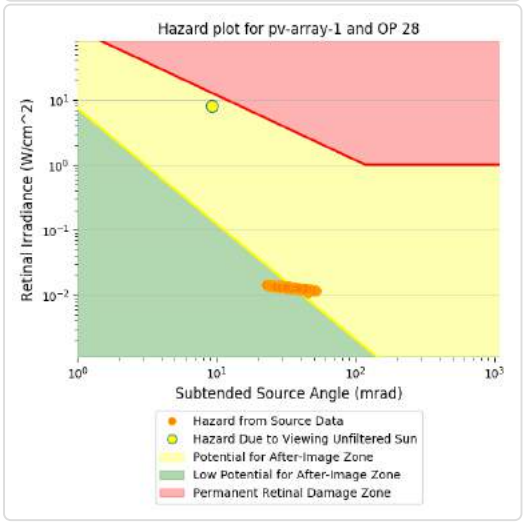
PV array is expected to produce the following glare for receptors at this location:

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





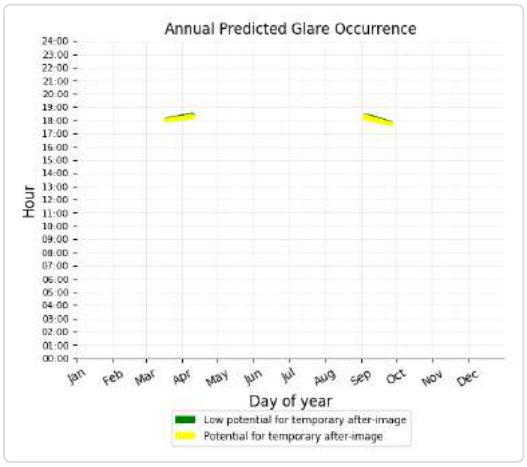


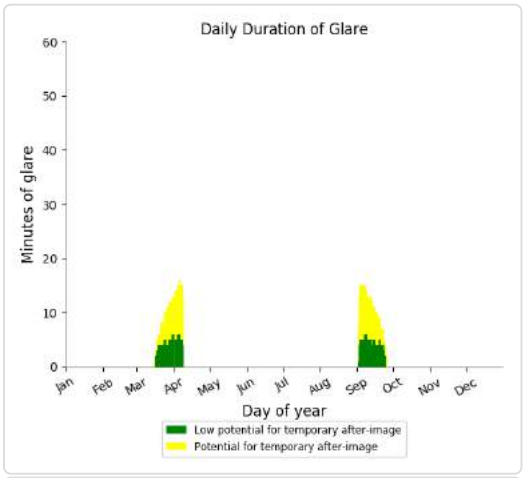


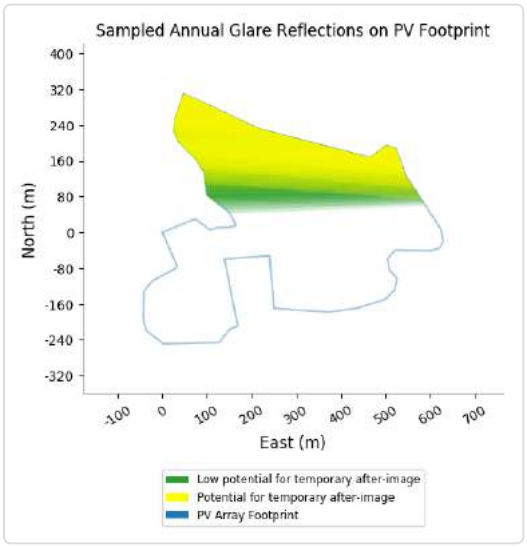
PV array 1 - OP Receptor (OP 29)

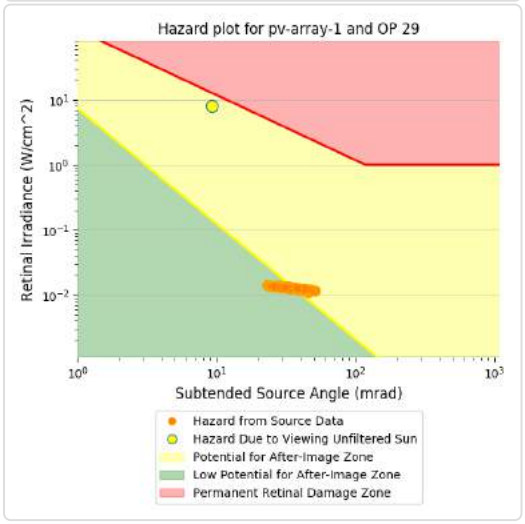
PV array is expected to produce the following glare for receptors at this location:

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









PV array 1 - OP Receptor (OP 30)

No glare found

PV array 1 - OP Receptor (OP 31)

No glare found

PV array 1 - OP Receptor (OP 32)

No glare found

PV array 1 - OP Receptor (OP 33)

No glare found

PV array 1 - OP Receptor (OP 34)

No glare found

PV array 1 - OP Receptor (OP 35)

No glare found

PV array 1 - OP Receptor (OP 36)

No glare found

PV array 1 - OP Receptor (OP 37)

No glare found

PV array 1 - OP Receptor (OP 38)

No glare found

PV array 1 - OP Receptor (OP 39)

No glare found

PV array 1 - OP Receptor (OP 40)

No glare found

PV array 1 - OP Receptor (OP 41)

No glare found

PV array 1 - OP Receptor (OP 42)

No glare found

PV array 1 - OP Receptor (OP 43)

No glare found

PV array 1 - OP Receptor (OP 44)

No glare found

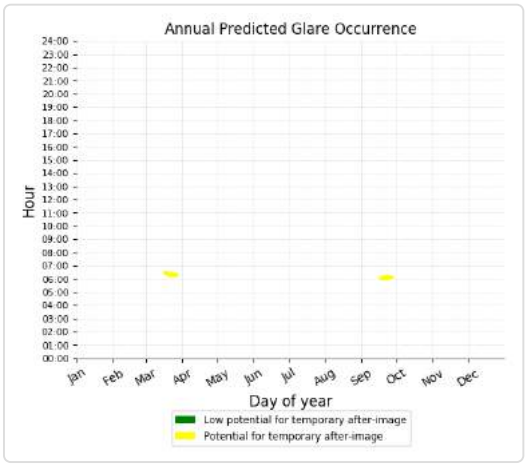
PV array 1 - OP Receptor (OP 45)

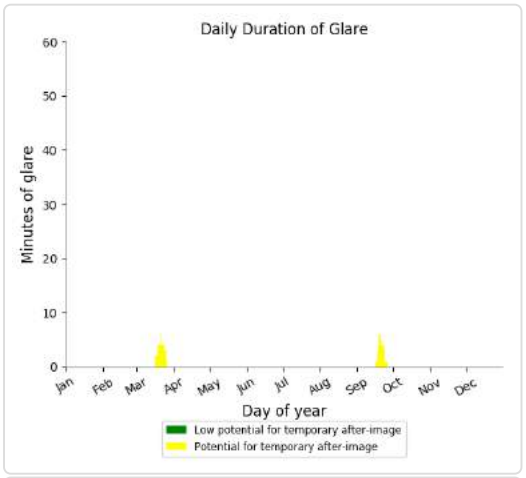
No glare found

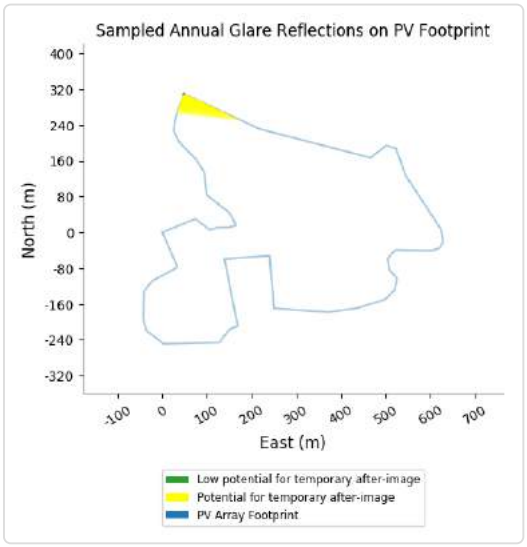
PV array 1 - OP Receptor (OP 46)

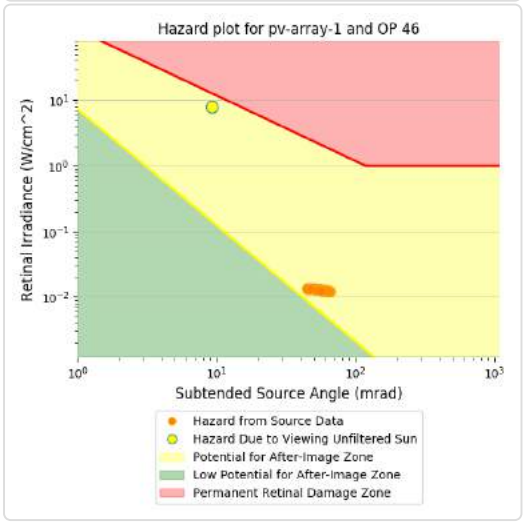
PV array is expected to produce the following glare for receptors at this location:

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





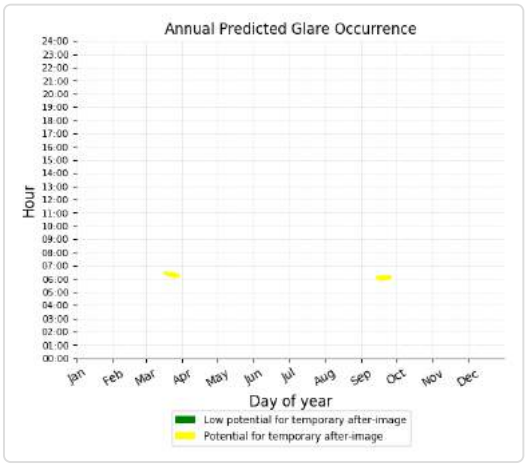


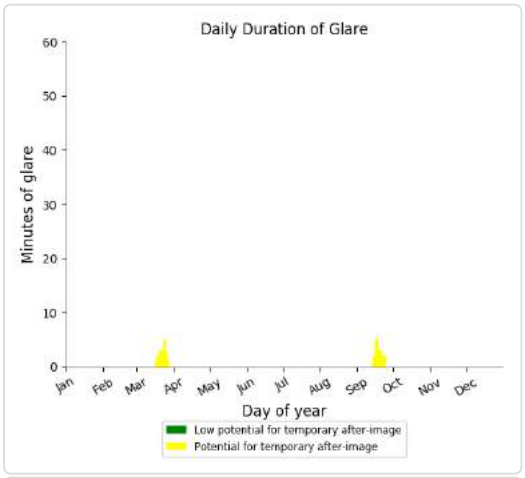


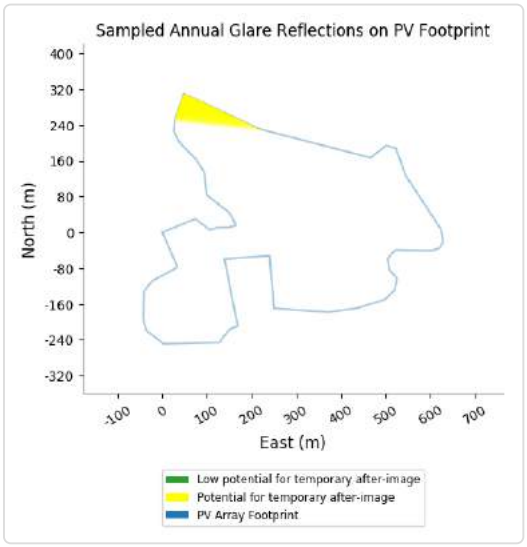
PV array 1 - OP Receptor (OP 47)

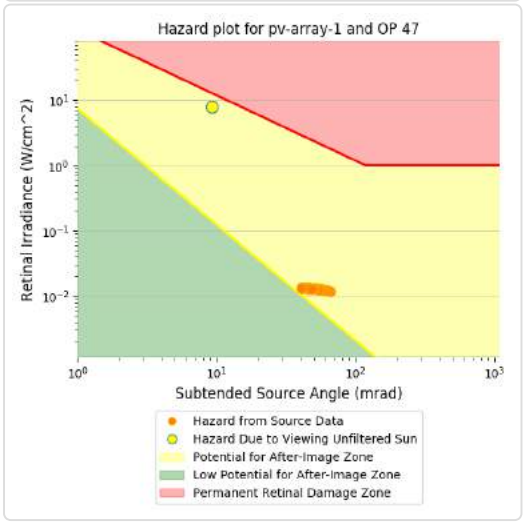
PV array is expected to produce the following glare for receptors at this location:

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









PV array 1 - OP Receptor (OP 48)

No glare found

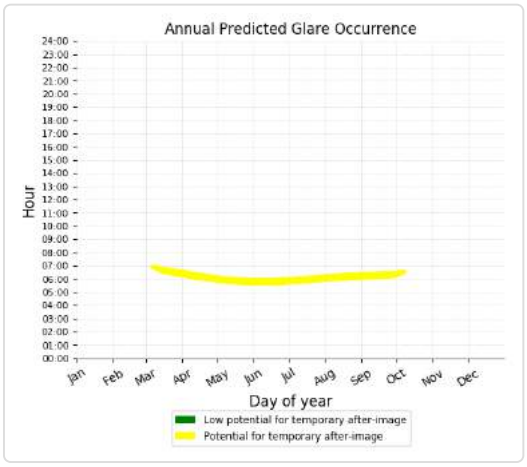
PV array 1 - OP Receptor (OP 49)

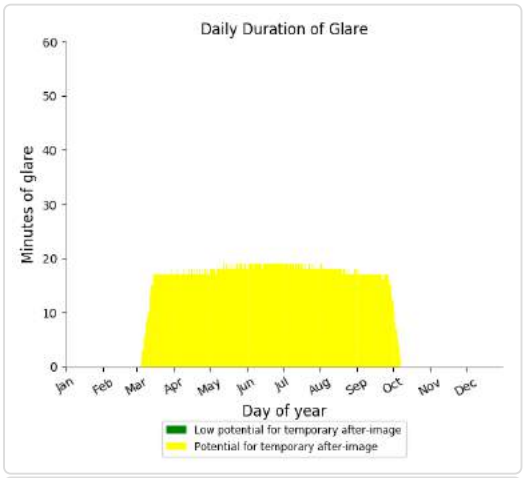
No glare found

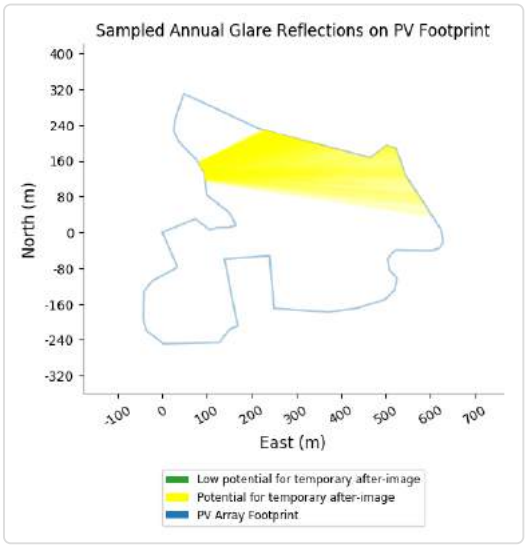
PV array 1 - OP Receptor (OP 50)

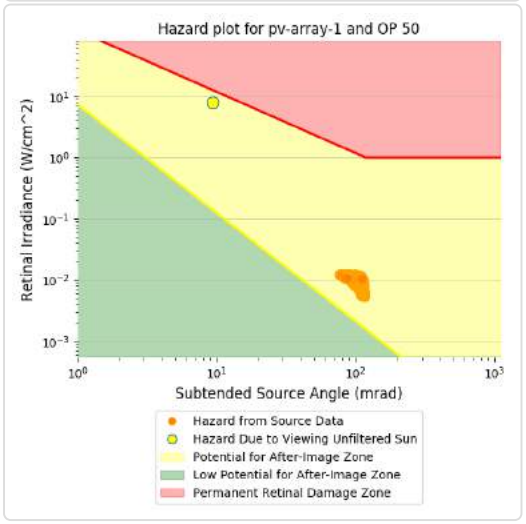
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,705 minutes of "yellow" glare with potential to cause temporary after-image.





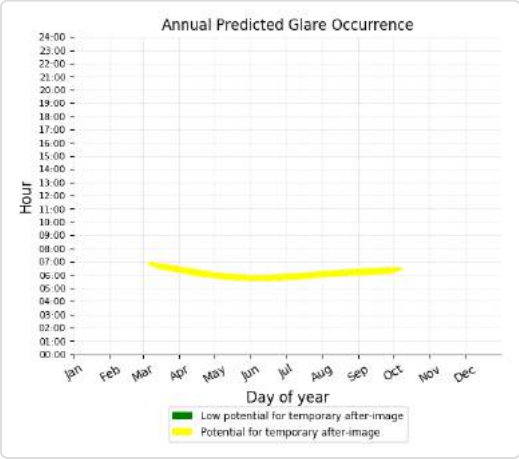


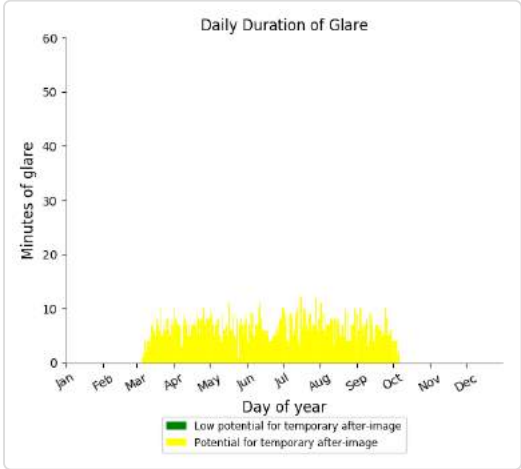


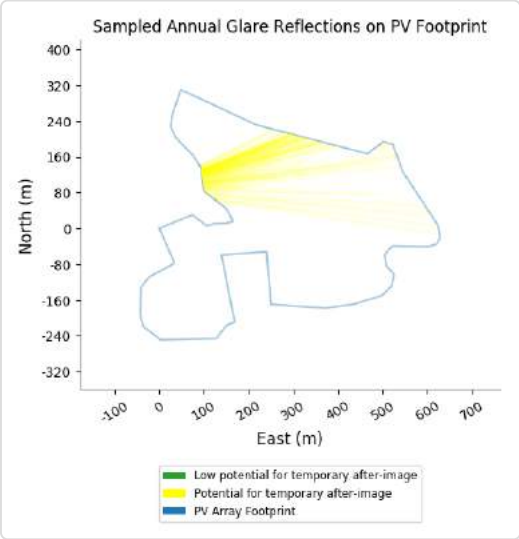
PV array 1 - OP Receptor (OP 51)

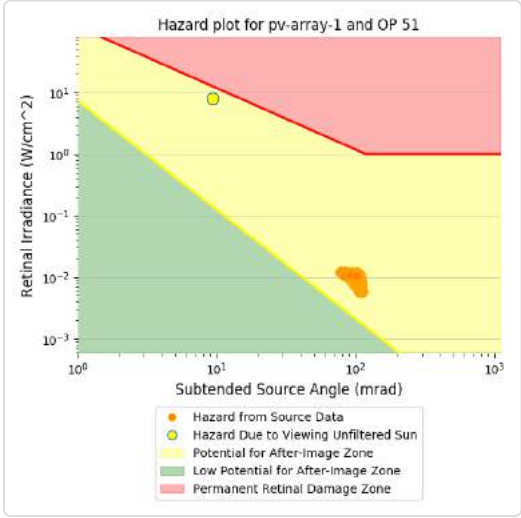
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,430 minutes of "yellow" glare with potential to cause temporary after-image.









PV array 1 - OP Receptor (OP 52)

No glare found

PV array 2 potential temporary after-image

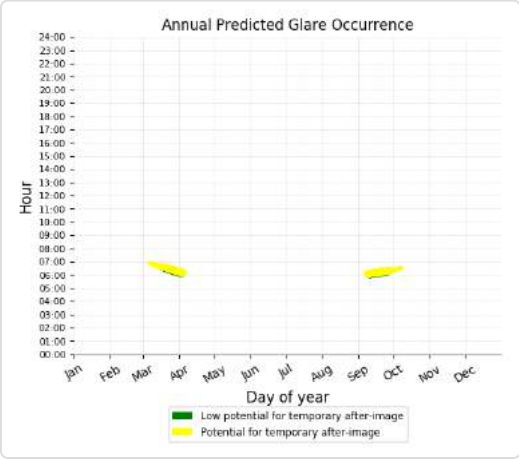
Component	Green glare (min)	Yellow glare (min)
OP: OP 1	135	924
OP: OP 2	173	830
OP: OP 3	187	836
OP: OP 4	195	845
OP: OP 5	483	1097
OP: OP 6	0	684
OP: OP 7	0	3571
OP: OP 8	0	3138
OP: OP 9	0	2637
OP: OP 10	0	2847
OP: OP 11	11	2921
OP: OP 12	84	2674
OP: OP 13	124	1741

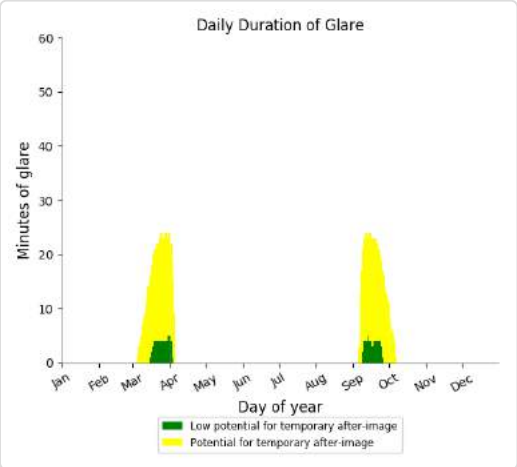
OP: OP 14	220	2687
OP: OP 15	313	2968
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
OP: OP 51	0	0
OP: OP 52	0	0

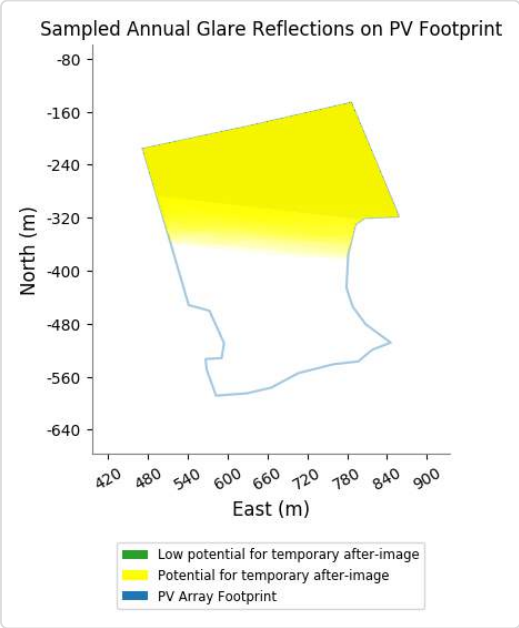
PV array 2 - OP Receptor (OP 1)

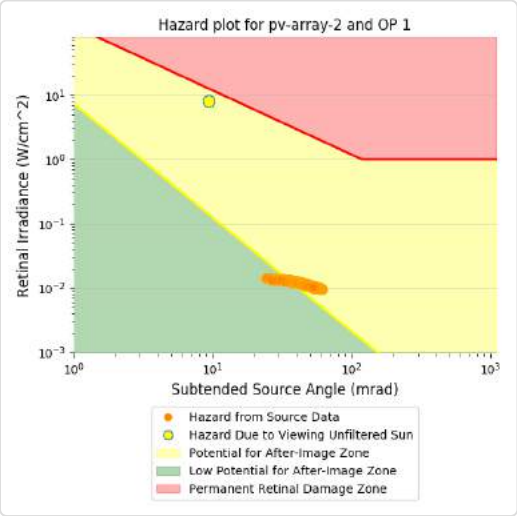
PV array is expected to produce the following glare for receptors at this location:

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





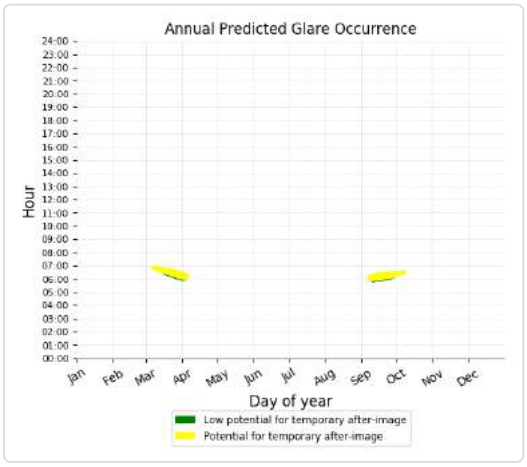


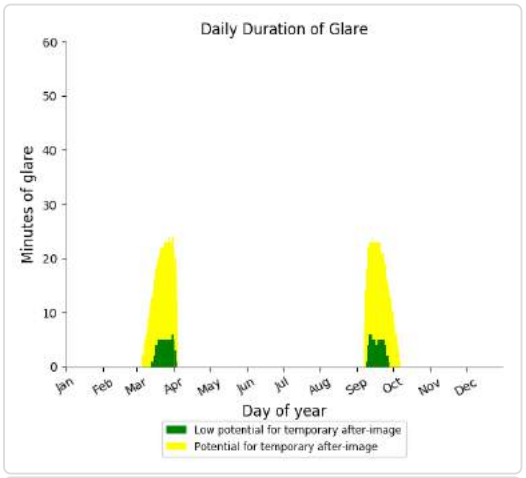


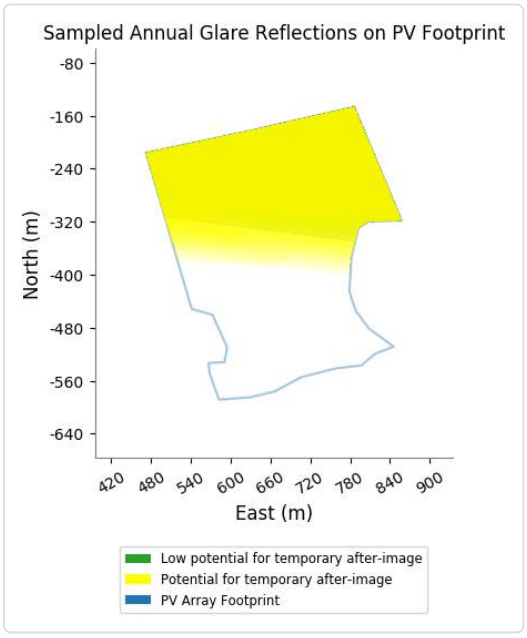
PV array 2 - OP Receptor (OP 2)

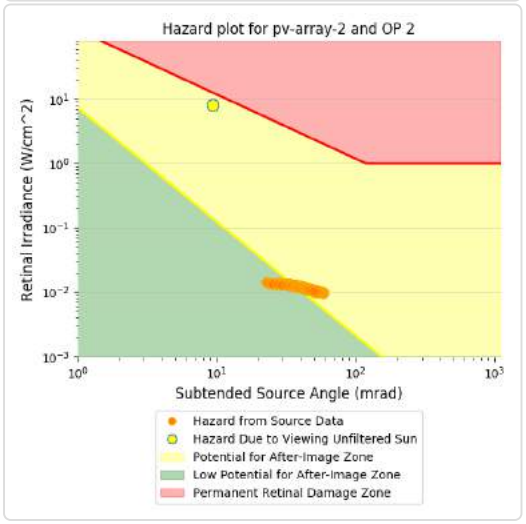
PV array is expected to produce the following glare for receptors at this location:

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





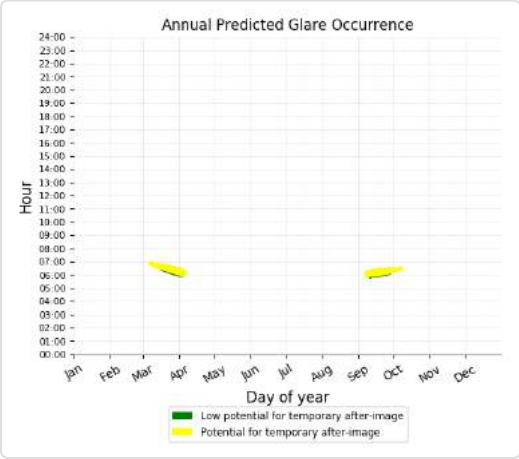


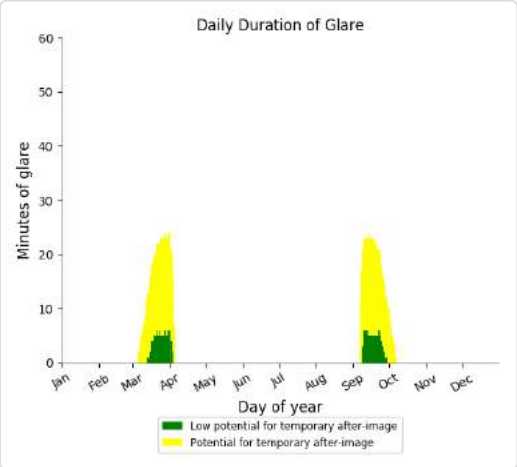


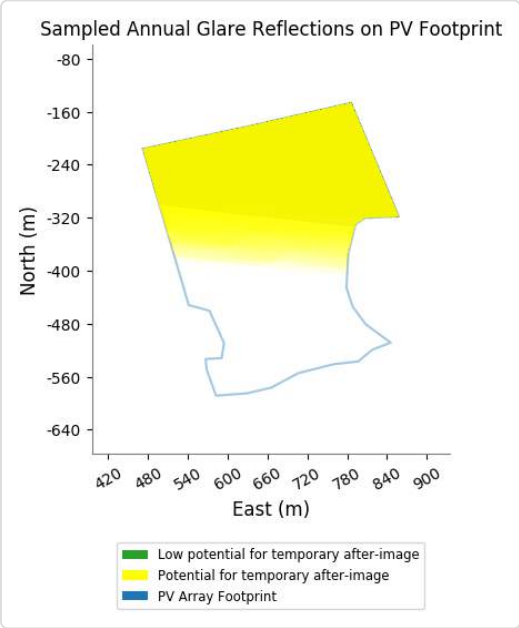
PV array 2 - OP Receptor (OP 3)

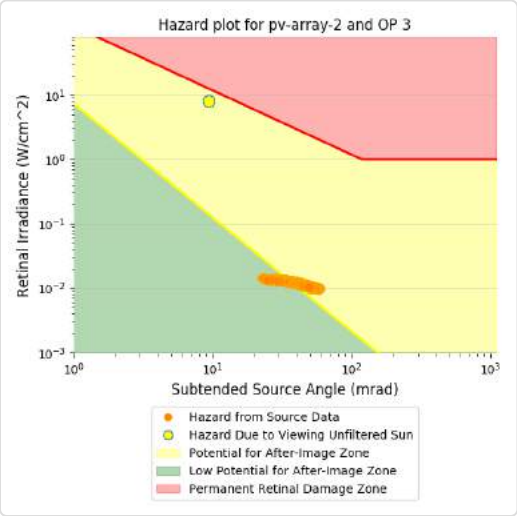
PV array is expected to produce the following glare for receptors at this location:

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





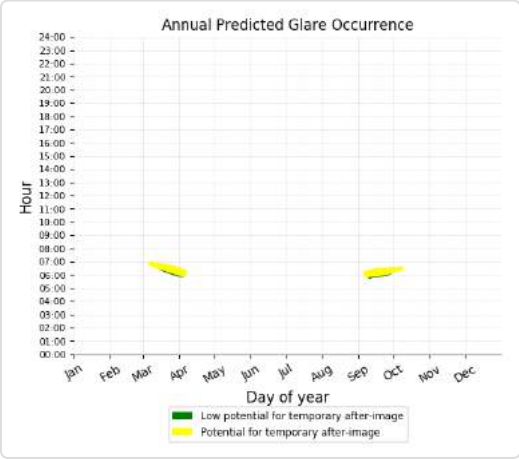


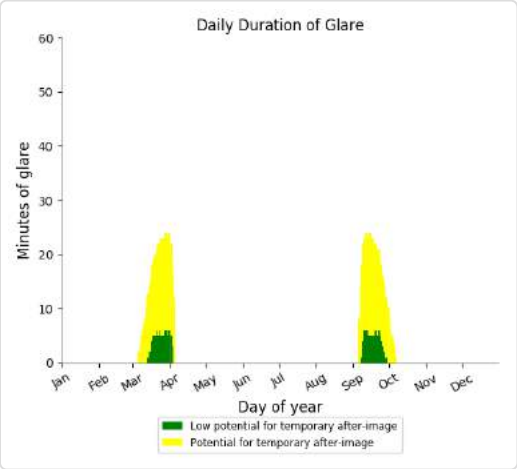


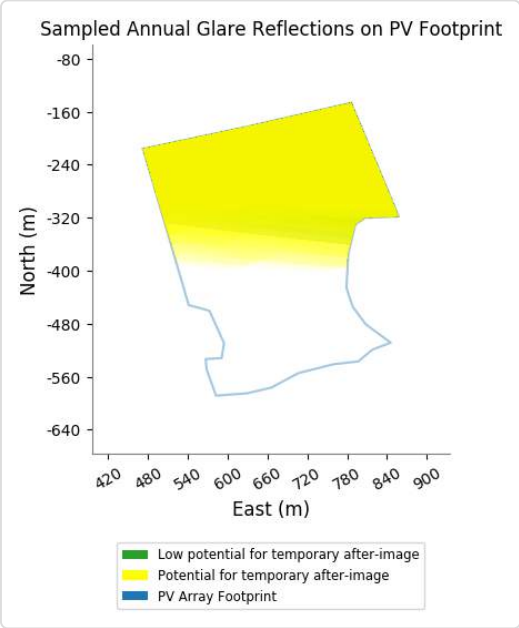
PV array 2 - OP Receptor (OP 4)

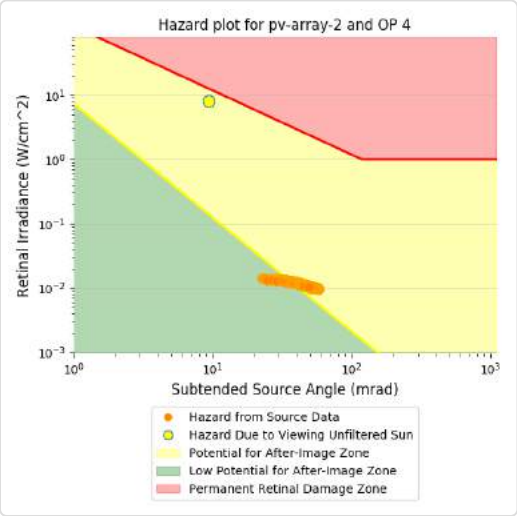
PV array is expected to produce the following glare for receptors at this location:

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





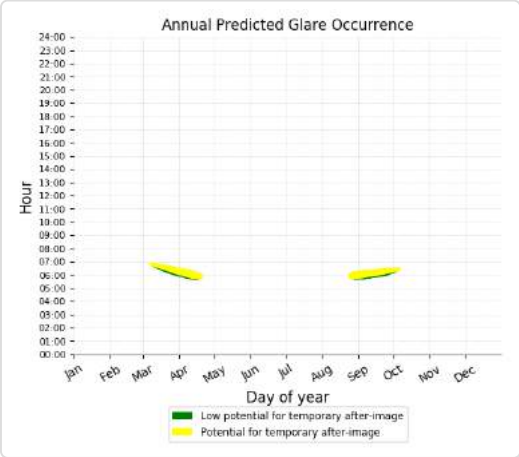


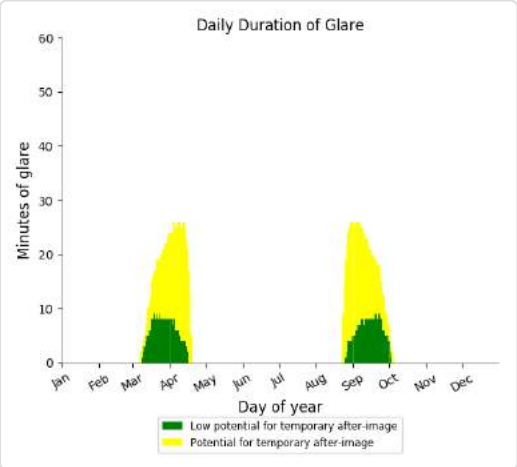


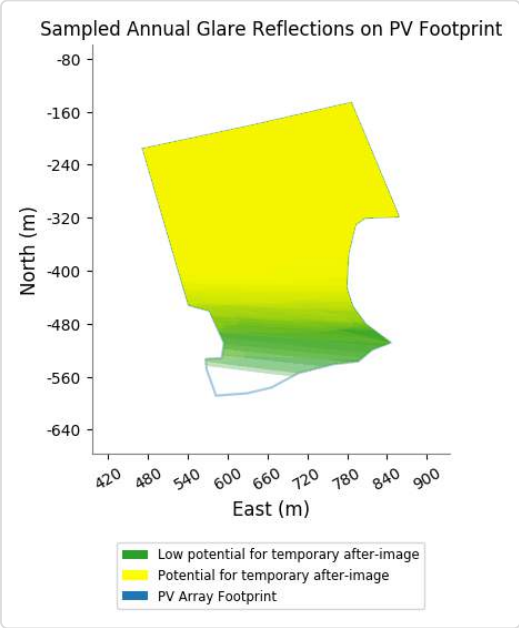
PV array 2 - OP Receptor (OP 5)

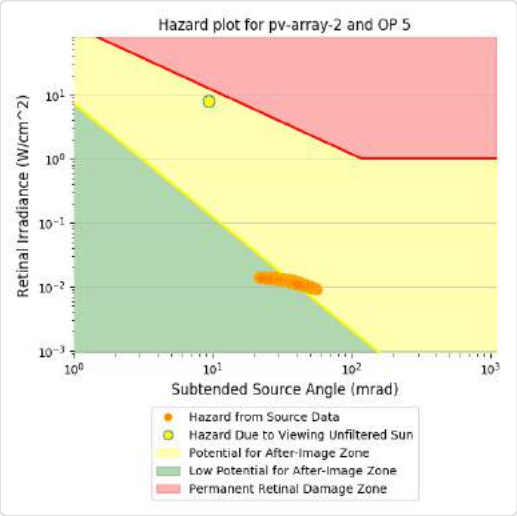
PV array is expected to produce the following glare for receptors at this location:

- 483 minutes of "green" glare with low potential to cause temporary after-image.
- 1,097 minutes of "yellow" glare with potential to cause temporary after-image.





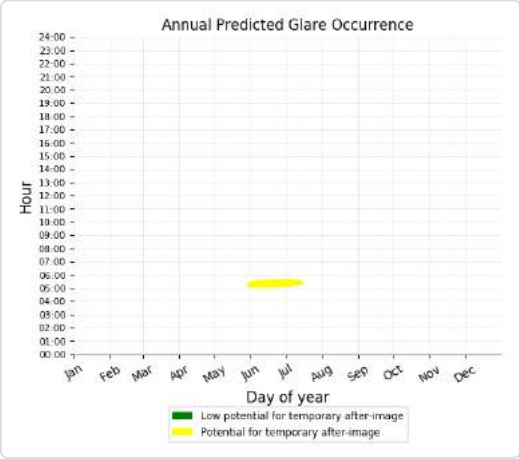


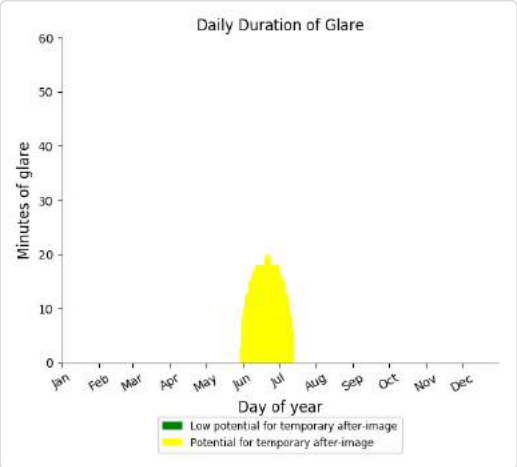


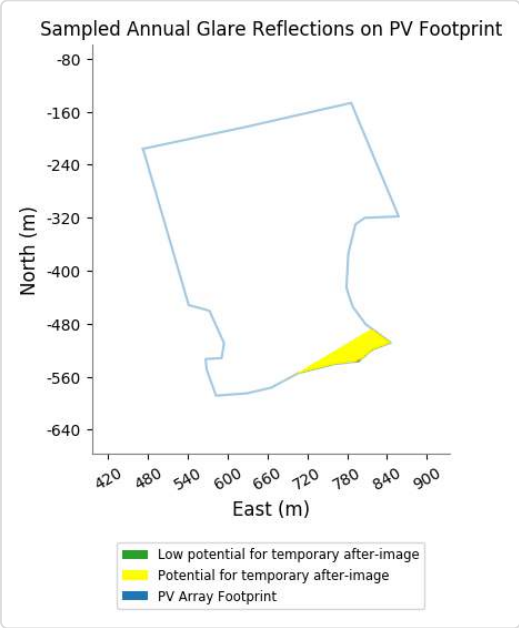
PV array 2 - OP Receptor (OP 6)

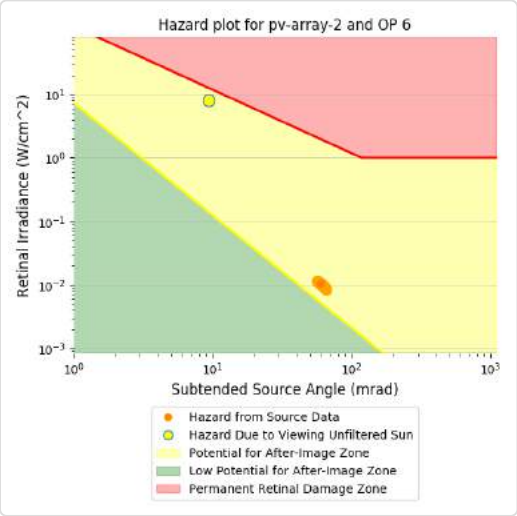
PV array is expected to produce the following glare for receptors at this location:

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





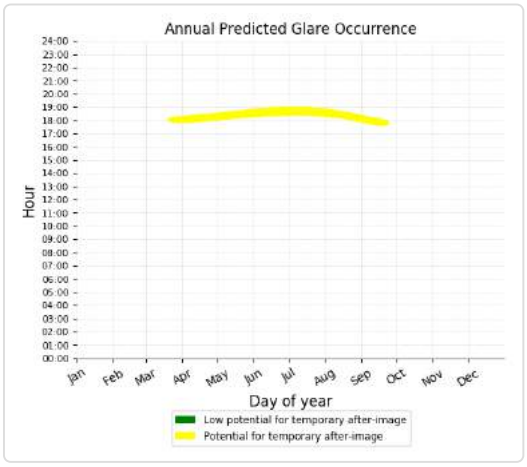


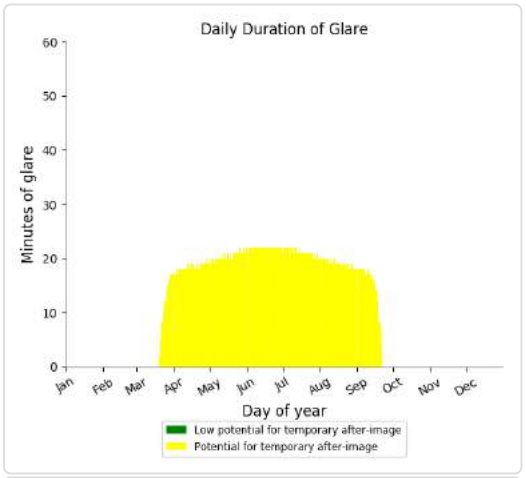


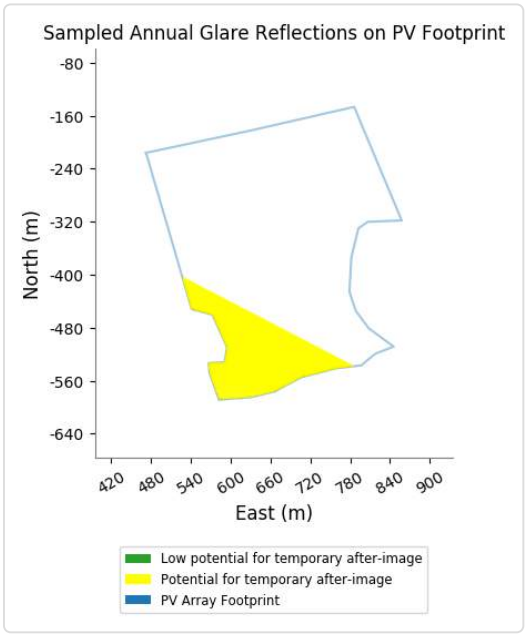
PV array 2 - OP Receptor (OP 7)

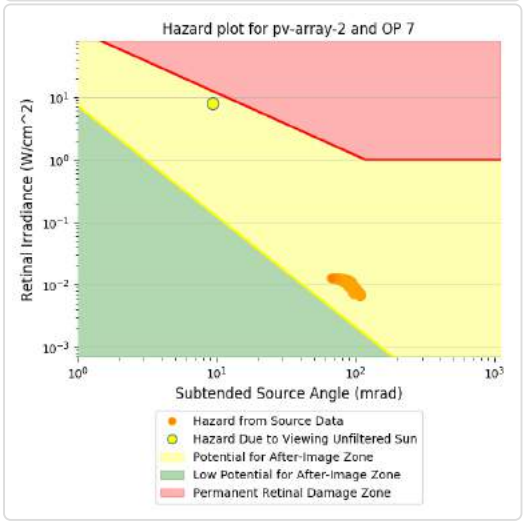
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,571 minutes of "yellow" glare with potential to cause temporary after-image.





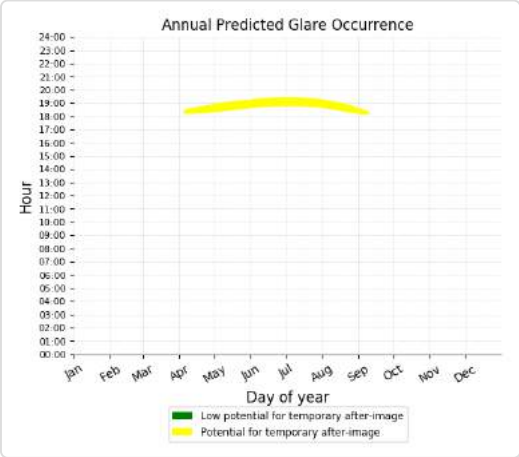


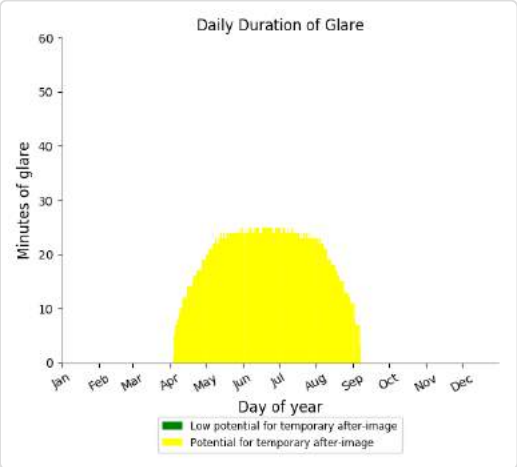


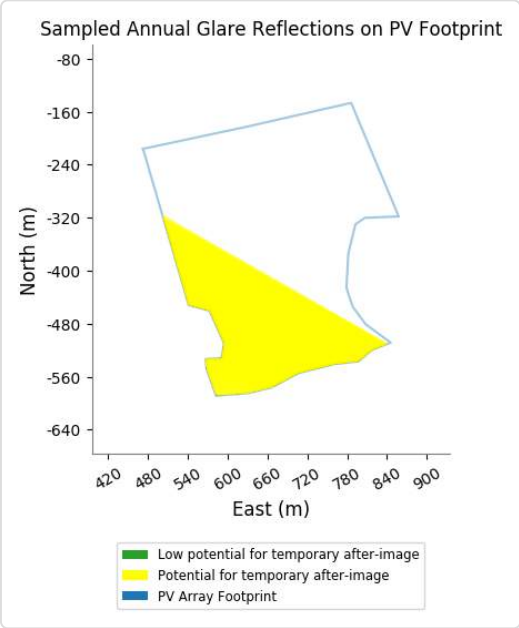
PV array 2 - OP Receptor (OP 8)

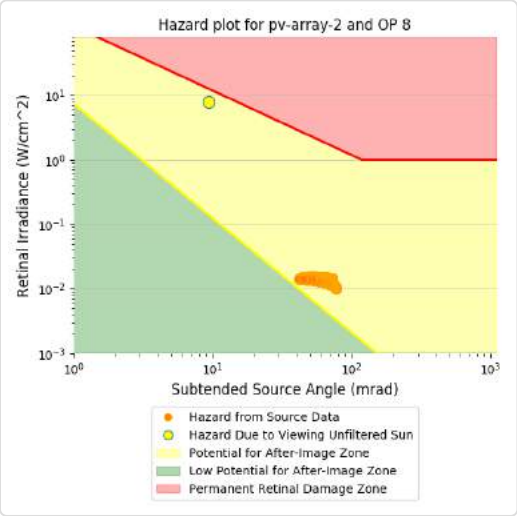
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,138 minutes of "yellow" glare with potential to cause temporary after-image.





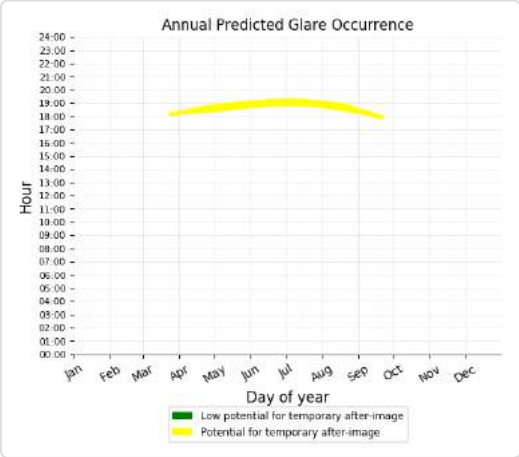


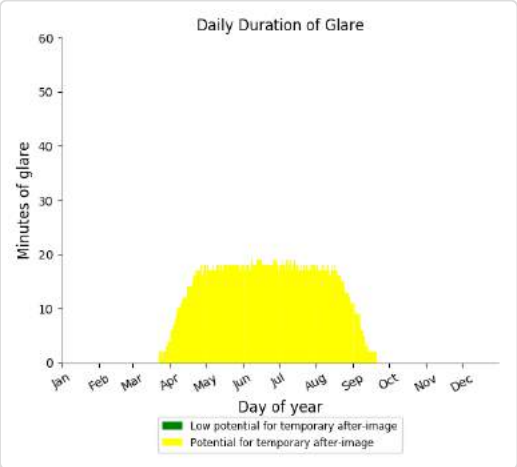


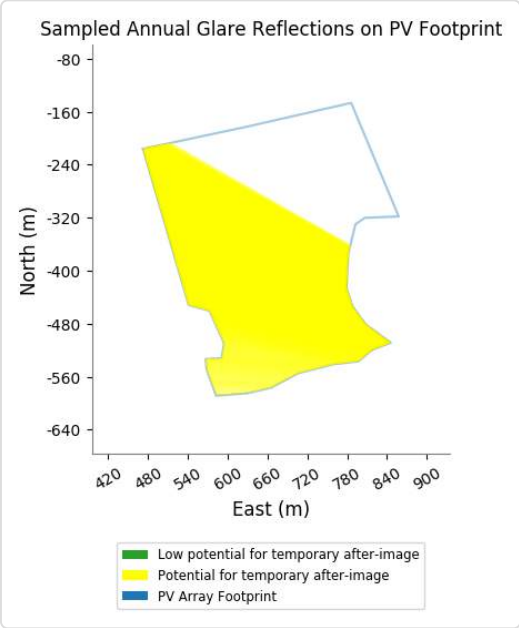
PV array 2 - OP Receptor (OP 9)

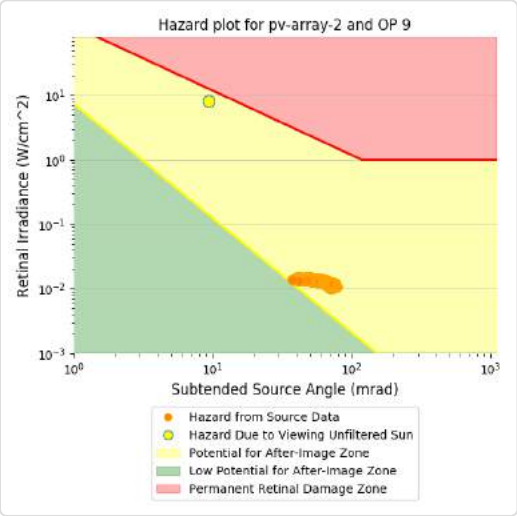
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,637 minutes of "yellow" glare with potential to cause temporary after-image.





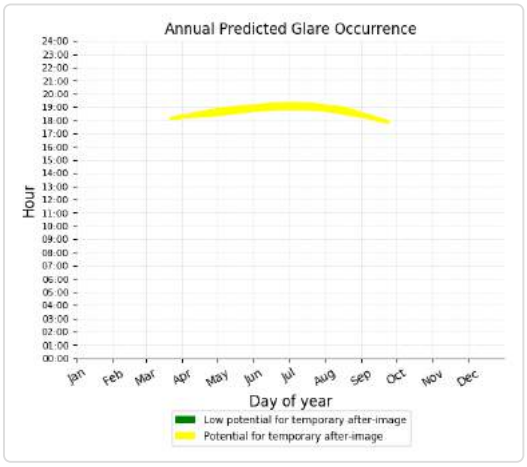


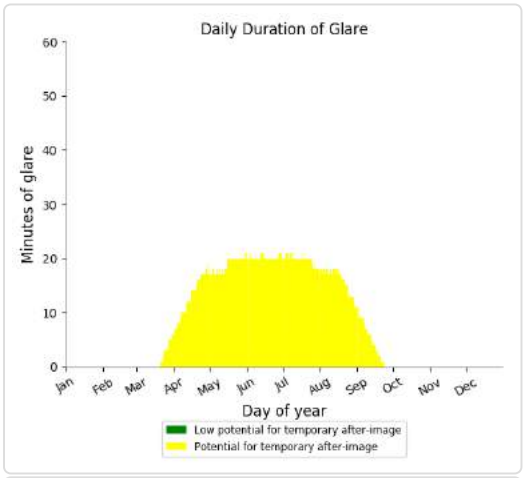


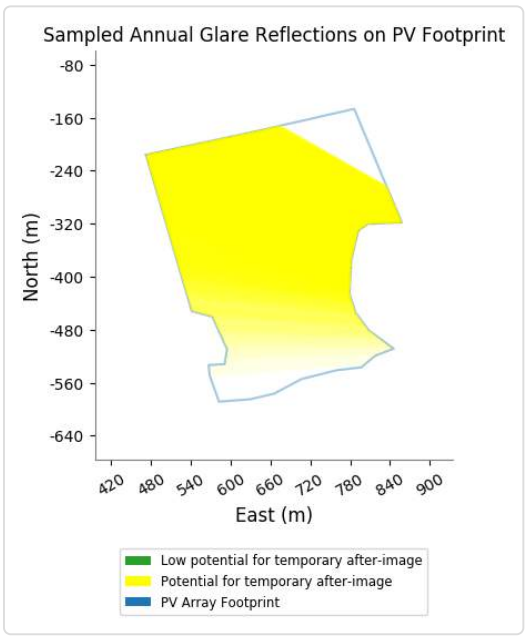
PV array 2 - OP Receptor (OP 10)

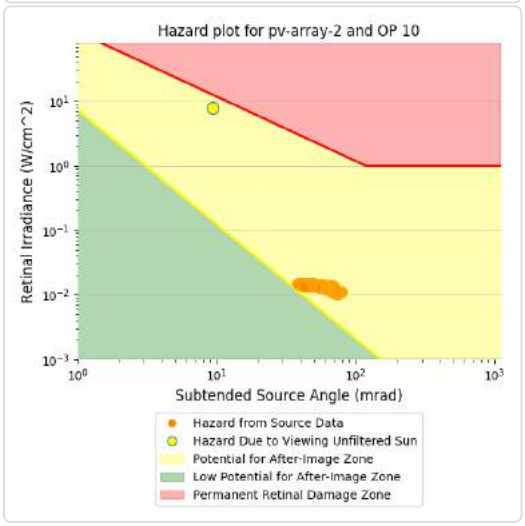
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,847 minutes of "yellow" glare with potential to cause temporary after-image.





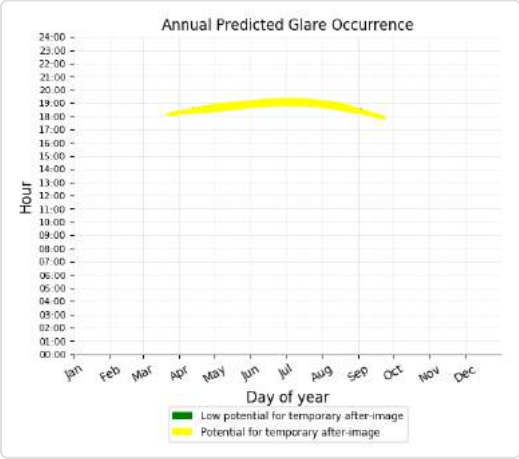


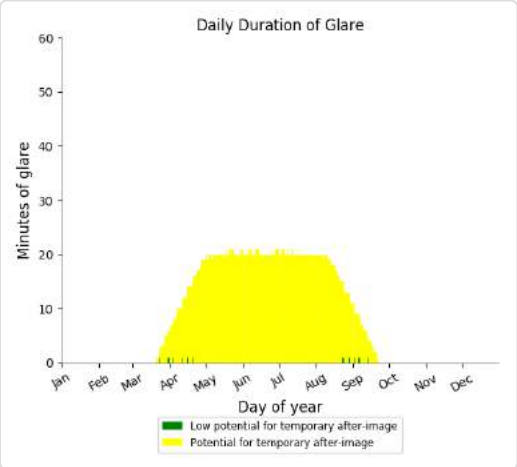


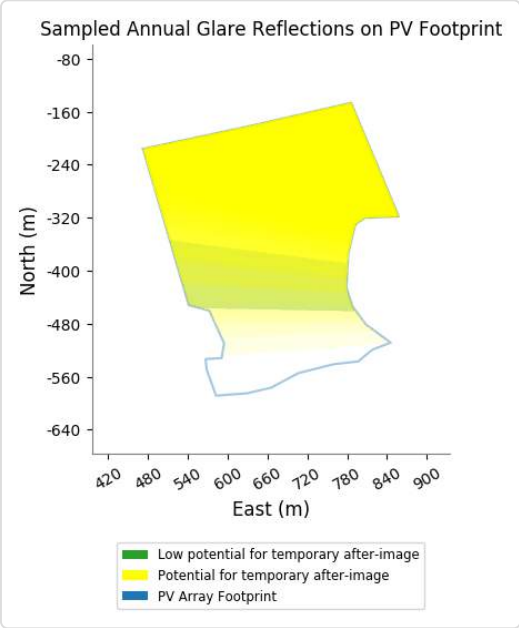
PV array 2 - OP Receptor (OP 11)

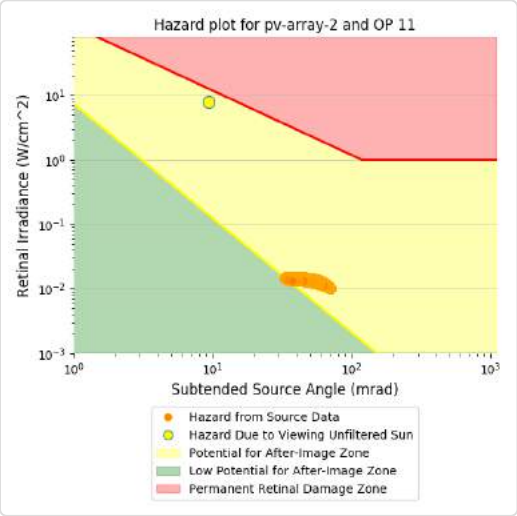
PV array is expected to produce the following glare for receptors at this location:

- 11 minutes of "green" glare with low potential to cause temporary after-image.
- 2,921 minutes of "yellow" glare with potential to cause temporary after-image.





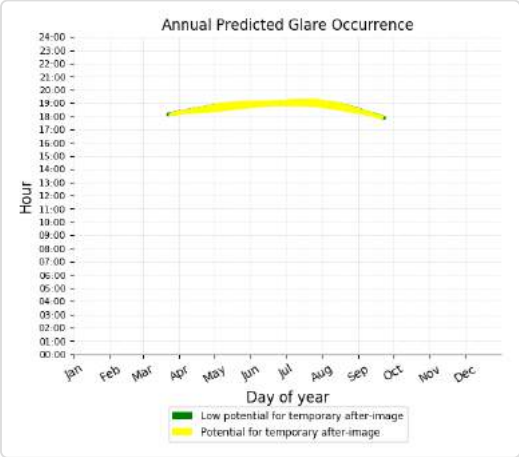


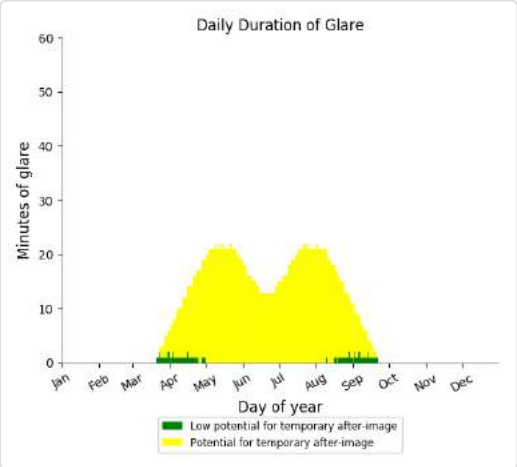


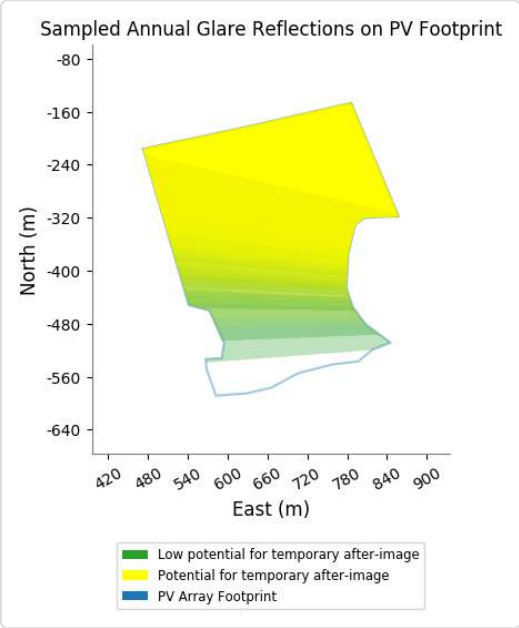
PV array 2 - OP Receptor (OP 12)

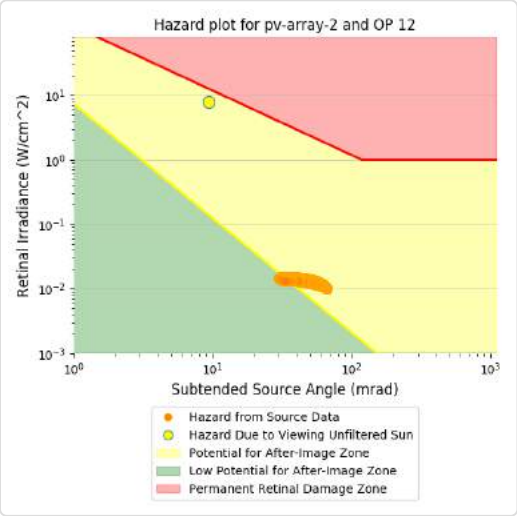
PV array is expected to produce the following glare for receptors at this location:

- 84 minutes of "green" glare with low potential to cause temporary after-image.
- 2,674 minutes of "yellow" glare with potential to cause temporary after-image.





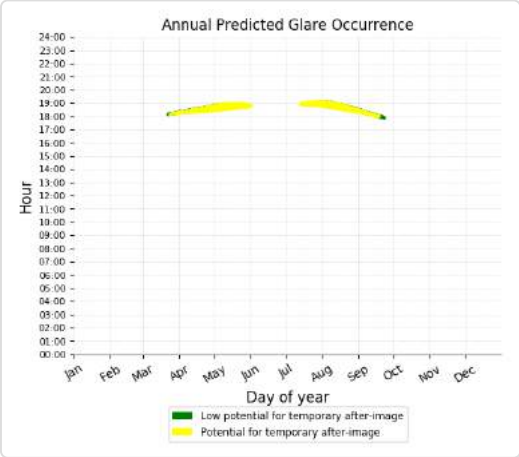


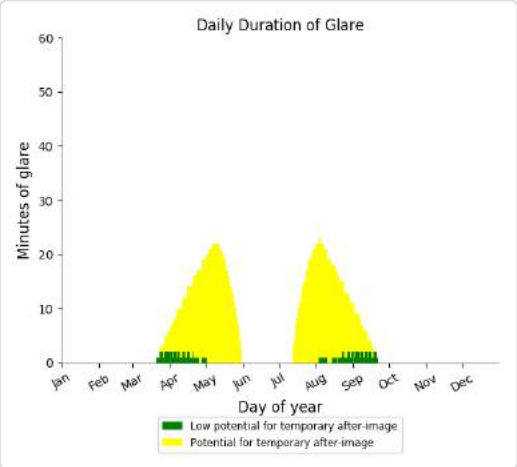


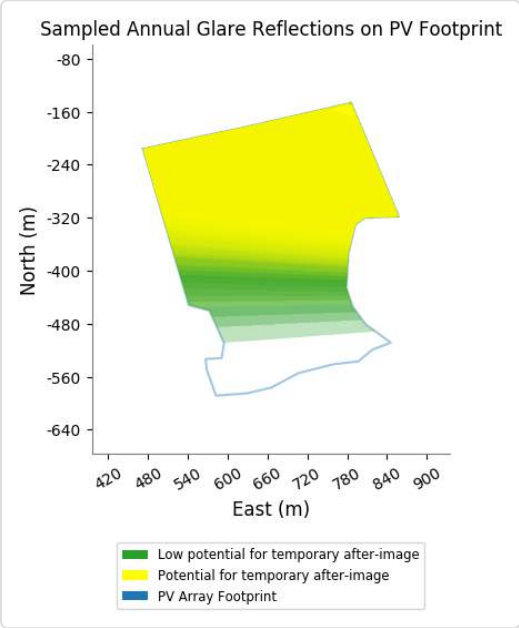
PV array 2 - OP Receptor (OP 13)

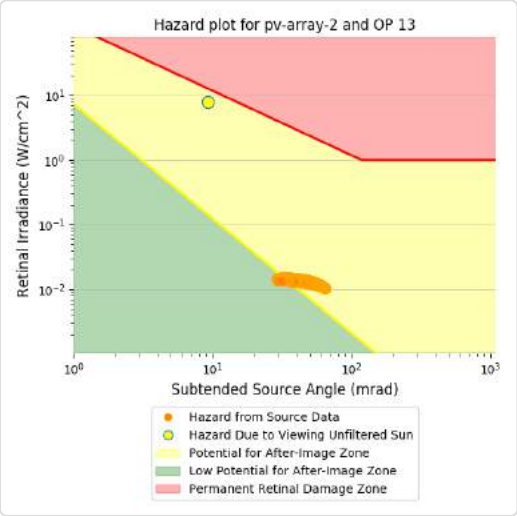
PV array is expected to produce the following glare for receptors at this location:

- 124 minutes of "green" glare with low potential to cause temporary after-image.
- 1,741 minutes of "yellow" glare with potential to cause temporary after-image.





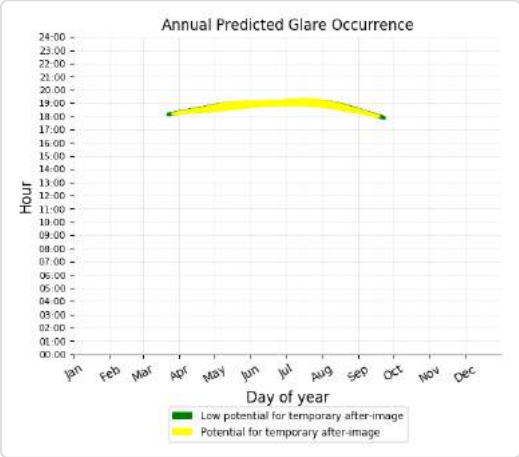


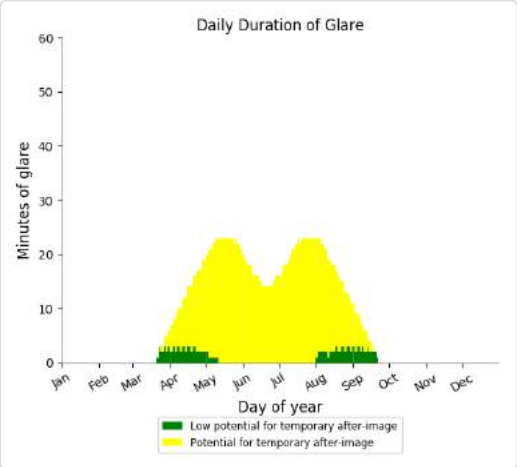


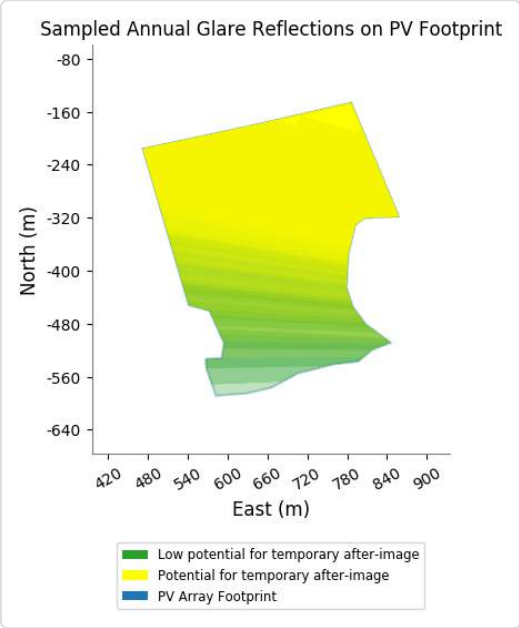
PV array 2 - OP Receptor (OP 14)

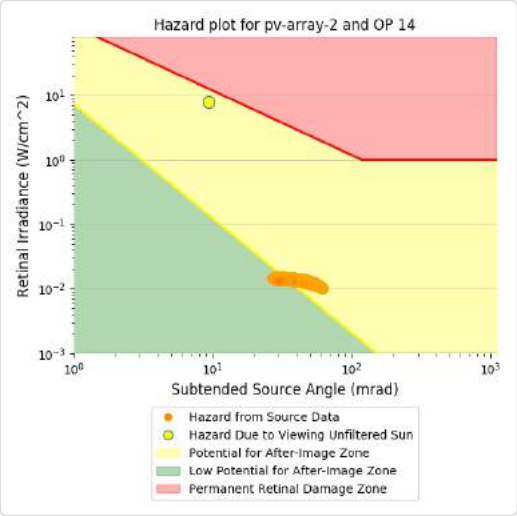
PV array is expected to produce the following glare for receptors at this location:

- 220 minutes of "green" glare with low potential to cause temporary after-image.
- 2,687 minutes of "yellow" glare with potential to cause temporary after-image.





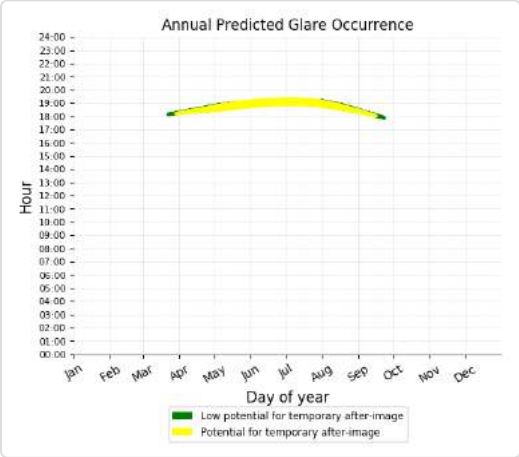


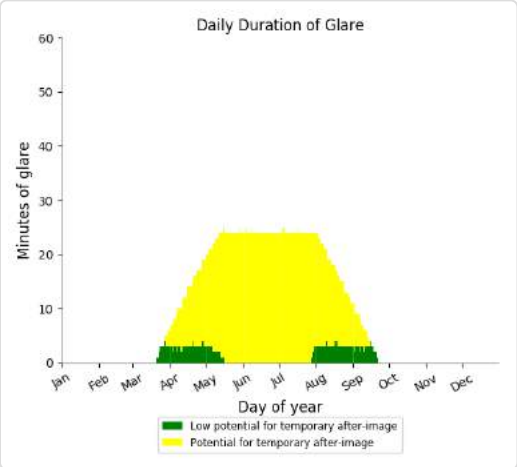


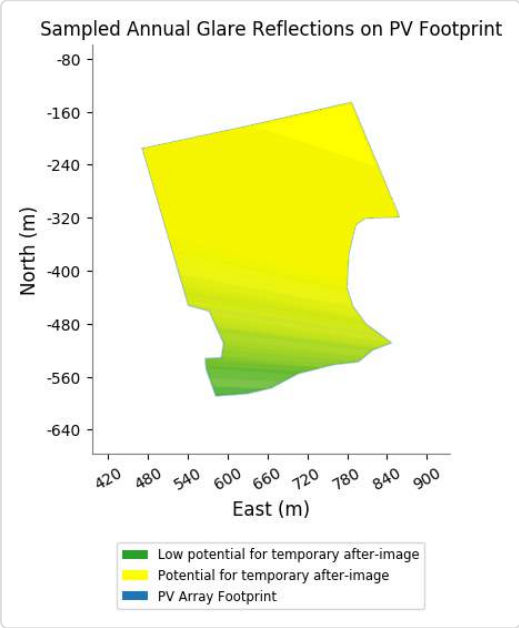
PV array 2 - OP Receptor (OP 15)

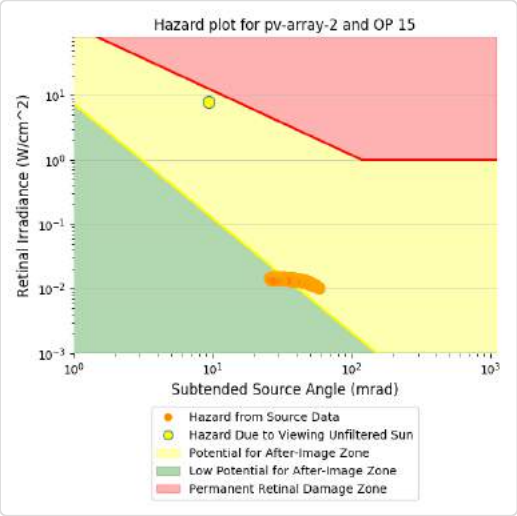
PV array is expected to produce the following glare for receptors at this location:

- 313 minutes of "green" glare with low potential to cause temporary after-image.
- 2,968 minutes of "yellow" glare with potential to cause temporary after-image.









PV array 2 - OP Receptor (OP 16)

No glare found

PV array 2 - OP Receptor (OP 17)

No glare found

PV array 2 - OP Receptor (OP 18)

No glare found

PV array 2 - OP Receptor (OP 19)

No glare found

PV array 2 - OP Receptor (OP 20)

No glare found

PV array 2 - OP Receptor (OP 21)

No glare found

PV array 2 - OP Receptor (OP 22)
No glare found

PV array 2 - OP Receptor (OP 23)
No glare found

PV array 2 - OP Receptor (OP 24)
No glare found

PV array 2 - OP Receptor (OP 25)
No glare found

PV array 2 - OP Receptor (OP 26)
No glare found

PV array 2 - OP Receptor (OP 27)
No glare found

PV array 2 - OP Receptor (OP 28)
No glare found

PV array 2 - OP Receptor (OP 29)
No glare found

PV array 2 - OP Receptor (OP 30)
No glare found

PV array 2 - OP Receptor (OP 31)
No glare found

PV array 2 - OP Receptor (OP 32)
No glare found

PV array 2 - OP Receptor (OP 33)
No glare found

PV array 2 - OP Receptor (OP 34)
No glare found

PV array 2 - OP Receptor (OP 35)
No glare found

PV array 2 - OP Receptor (OP 36)
No glare found

PV array 2 - OP Receptor (OP 37)
No glare found

PV array 2 - OP Receptor (OP 38)
No glare found

PV array 2 - OP Receptor (OP 39)
No glare found

PV array 2 - OP Receptor (OP 40)
No glare found

PV array 2 - OP Receptor (OP 41)
No glare found

PV array 2 - OP Receptor (OP 42)
No glare found

PV array 2 - OP Receptor (OP 43)
No glare found

PV array 2 - OP Receptor (OP 44)
No glare found

PV array 2 - OP Receptor (OP 45)
No glare found

PV array 2 - OP Receptor (OP 46)
No glare found

PV array 2 - OP Receptor (OP 47)
No glare found

PV array 2 - OP Receptor (OP 48)
No glare found

PV array 2 - OP Receptor (OP 49)
No glare found

PV array 2 - OP Receptor (OP 50)
No glare found

PV array 2 - OP Receptor (OP 51)
No glare found

PV array 2 - OP Receptor (OP 52)
No glare found

PV array 3 potential temporary after-image

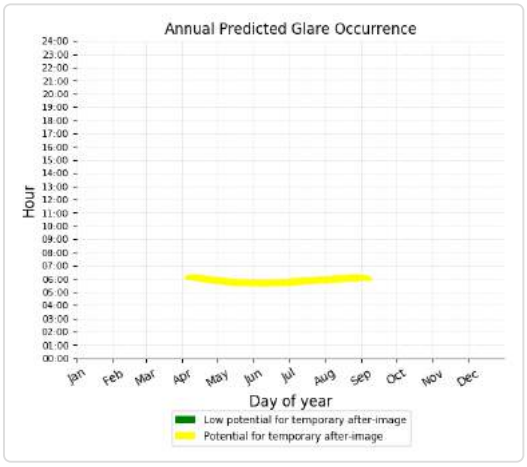
Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	2414
OP: OP 2	0	2436
OP: OP 3	0	2529
OP: OP 4	0	2417
OP: OP 5	10	2471
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	306
OP: OP 14	0	0

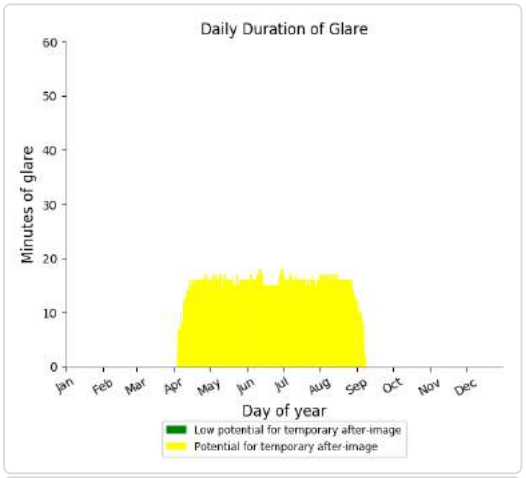
OP: OP 15	0	0
OP: OP 16	0	2262
OP: OP 17	0	1945
OP: OP 18	0	1944
OP: OP 19	0	4122
OP: OP 20	0	4121
OP: OP 21	0	3887
OP: OP 22	0	3884
OP: OP 23	0	3263
OP: OP 24	0	3206
OP: OP 25	0	3169
OP: OP 26	0	3566
OP: OP 27	0	3322
OP: OP 28	0	3239
OP: OP 29	0	3161
OP: OP 30	0	1050
OP: OP 31	0	1139
OP: OP 32	0	1000
OP: OP 33	0	899
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	1544
OP: OP 37	0	1606
OP: OP 38	0	1591
OP: OP 39	0	0
OP: OP 40	4	162
OP: OP 41	6	363
OP: OP 42	8	749
OP: OP 43	21	1232
OP: OP 44	17	1276
OP: OP 45	14	1532
OP: OP 46	8	2134
OP: OP 47	13	2043
OP: OP 48	0	1946
OP: OP 49	0	1137
OP: OP 50	0	3447
OP: OP 51	0	3341
OP: OP 52	0	3524

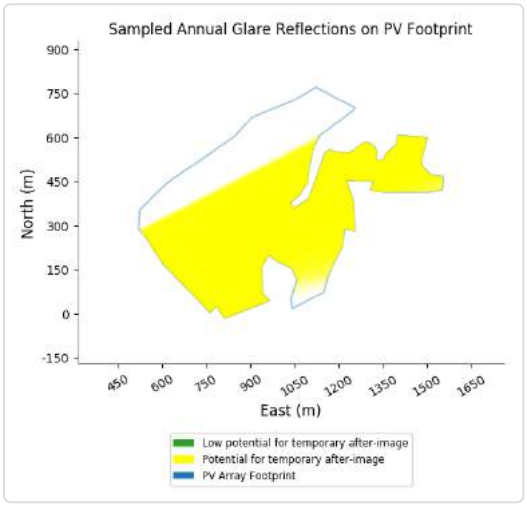
PV array 3 - OP Receptor (OP 1)

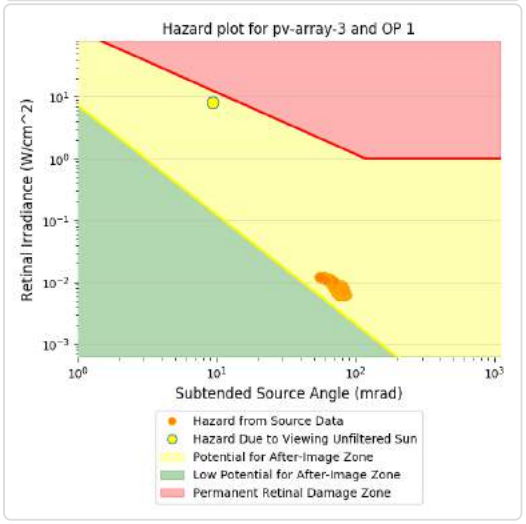
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,414 minutes of "yellow" glare with potential to cause temporary after-image.





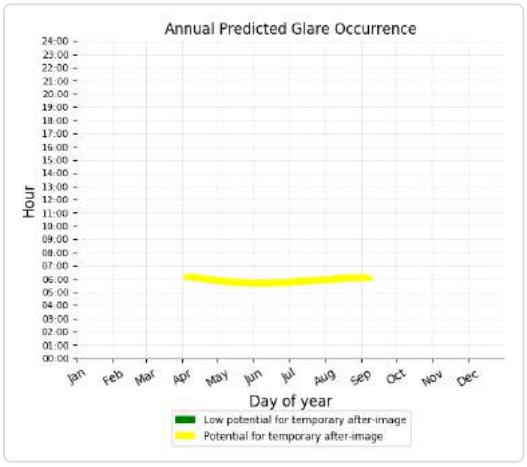


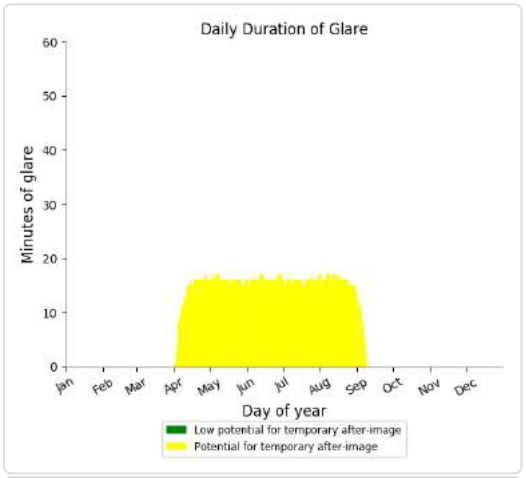


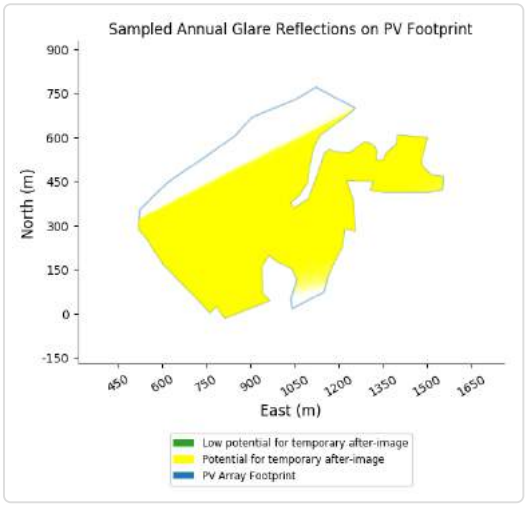
PV array 3 - OP Receptor (OP 2)

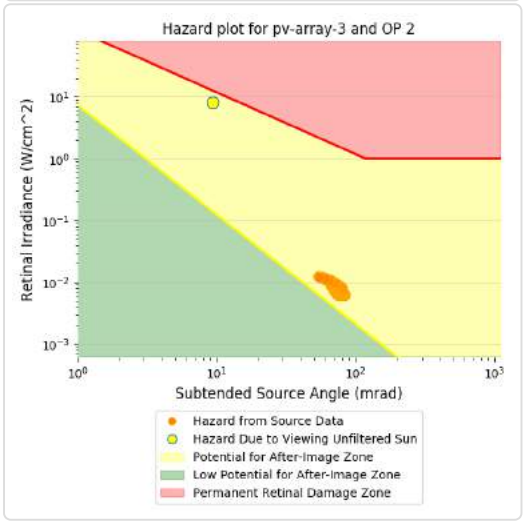
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,436 minutes of "yellow" glare with potential to cause temporary after-image.





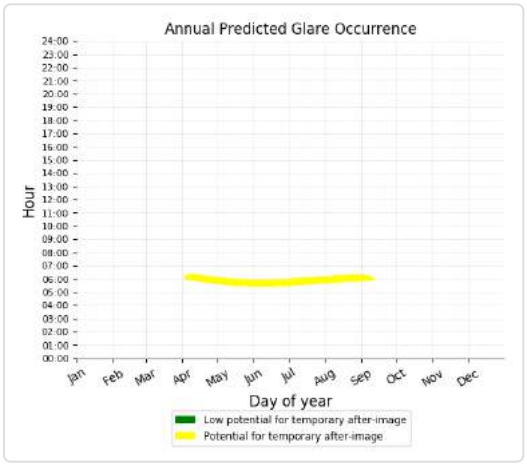


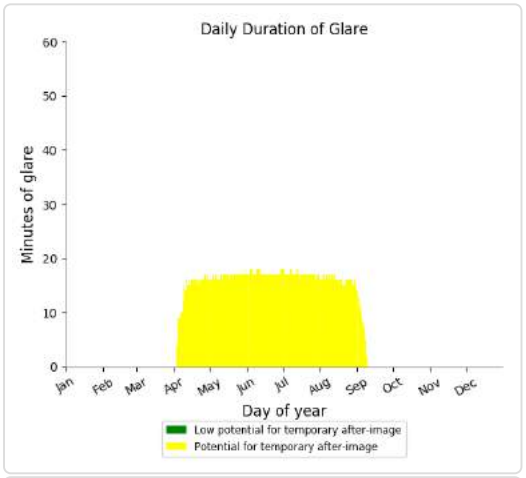


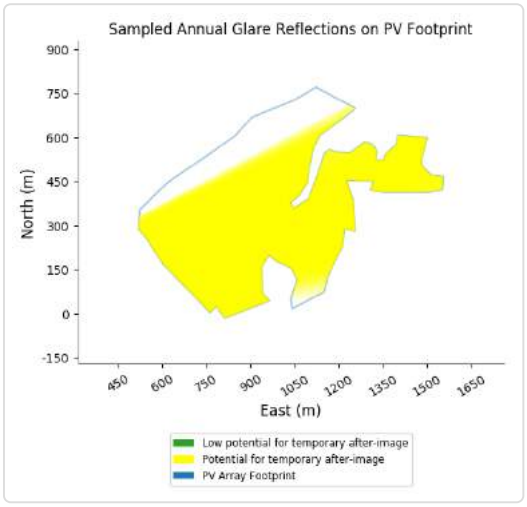
PV array 3 - OP Receptor (OP 3)

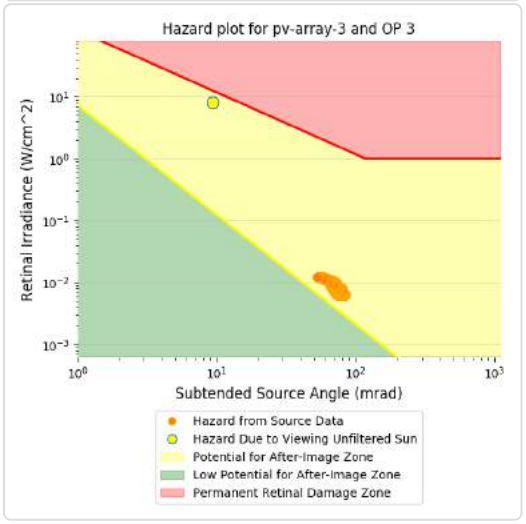
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,529 minutes of "yellow" glare with potential to cause temporary after-image.





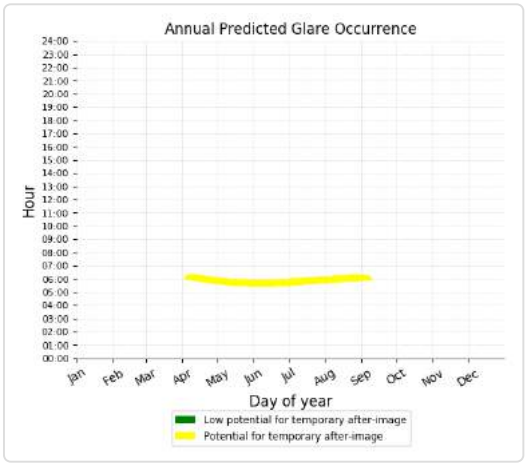


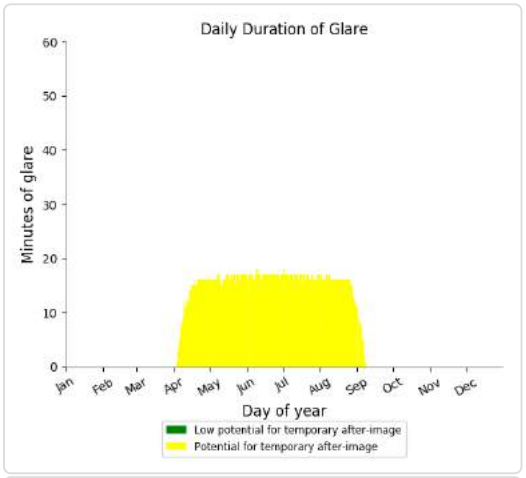


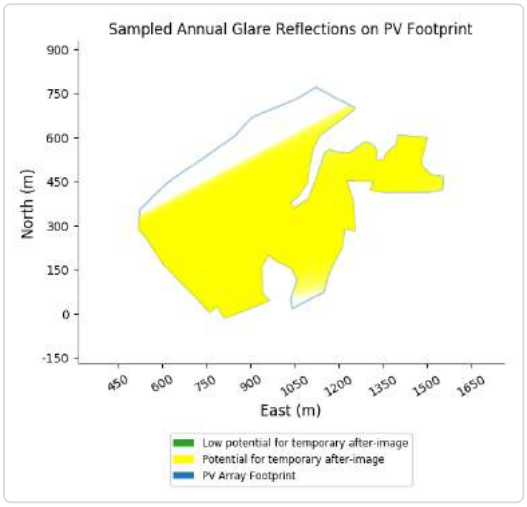
PV array 3 - OP Receptor (OP 4)

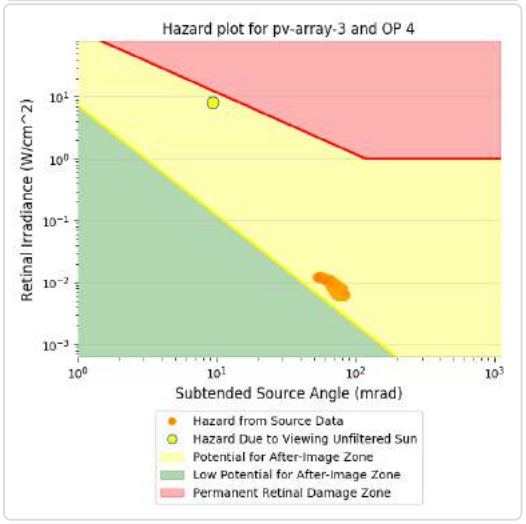
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,417 minutes of "yellow" glare with potential to cause temporary after-image.





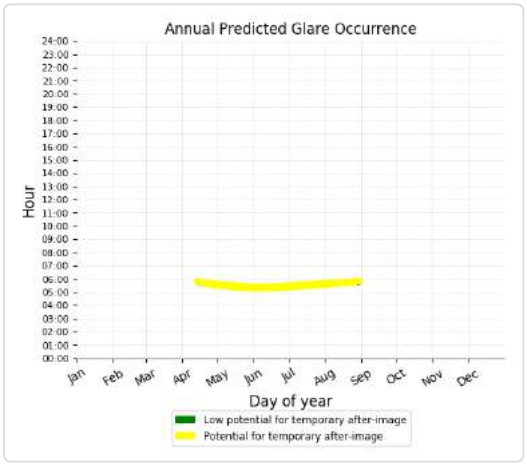


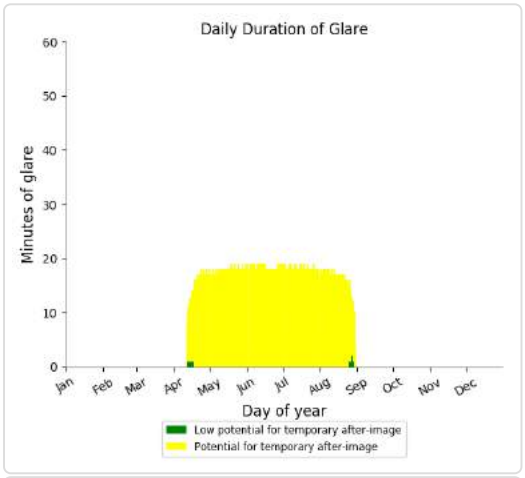


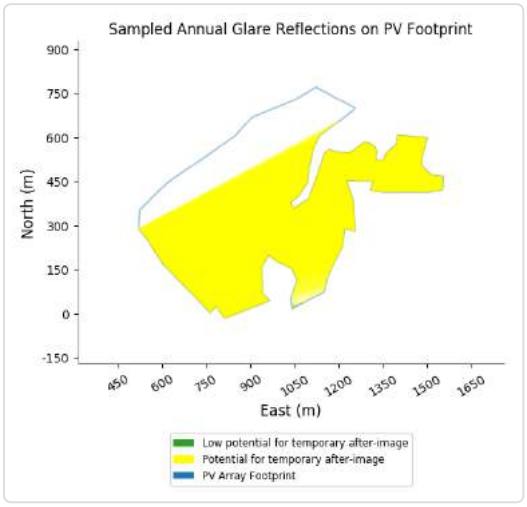
PV array 3 - OP Receptor (OP 5)

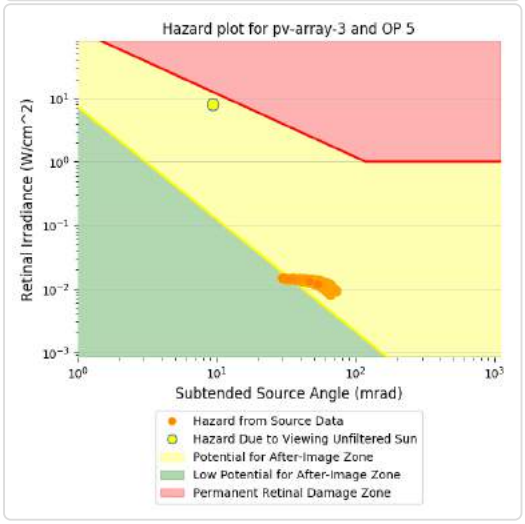
PV array is expected to produce the following glare for receptors at this location:

- 10 minutes of "green" glare with low potential to cause temporary after-image.
- 2,471 minutes of "yellow" glare with potential to cause temporary after-image.









PV array 3 - OP Receptor (OP 6)

No glare found

PV array 3 - OP Receptor (OP 7)

No glare found

PV array 3 - OP Receptor (OP 8)

No glare found

PV array 3 - OP Receptor (OP 9)

No glare found

PV array 3 - OP Receptor (OP 10)

No glare found

PV array 3 - OP Receptor (OP 11)

No glare found

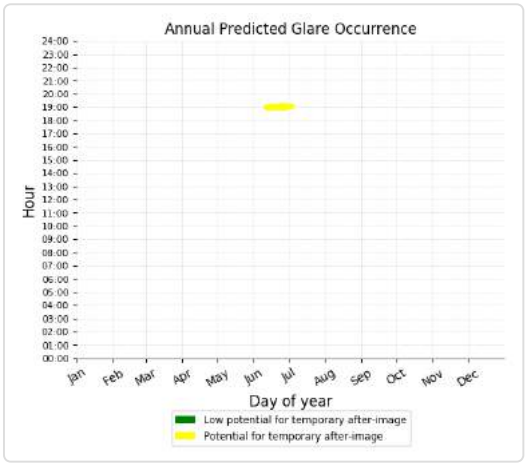
PV array 3 - OP Receptor (OP 12)

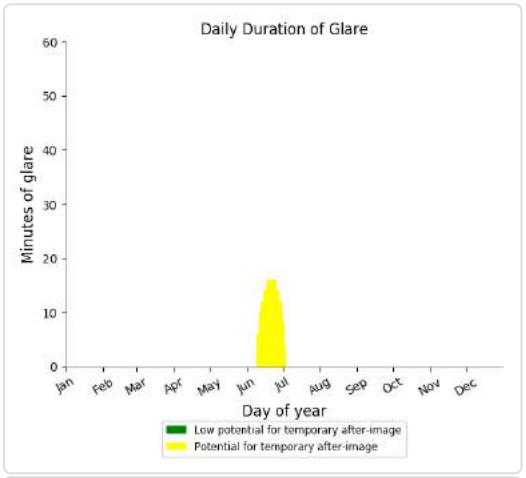
No glare found

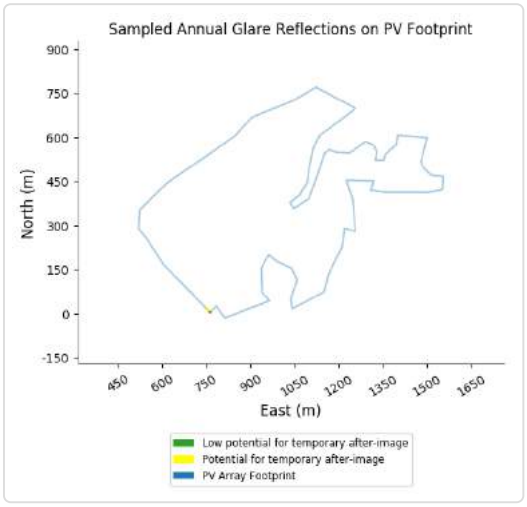
PV array 3 - OP Receptor (OP 13)

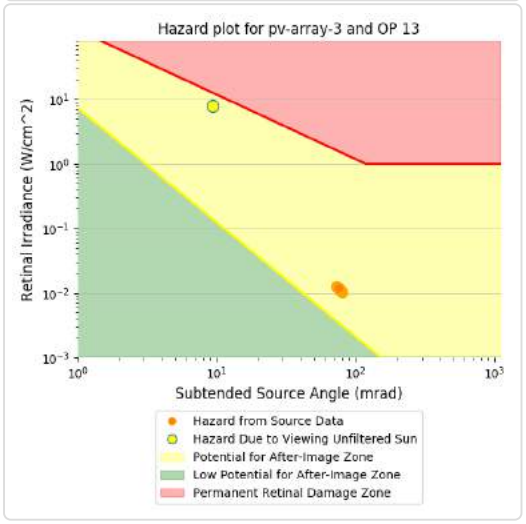
PV array is expected to produce the following glare for receptors at this location:

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









PV array 3 - OP Receptor (OP 14)

No glare found

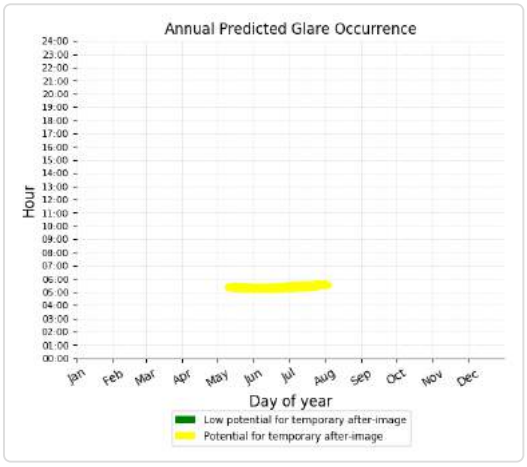
PV array 3 - OP Receptor (OP 15)

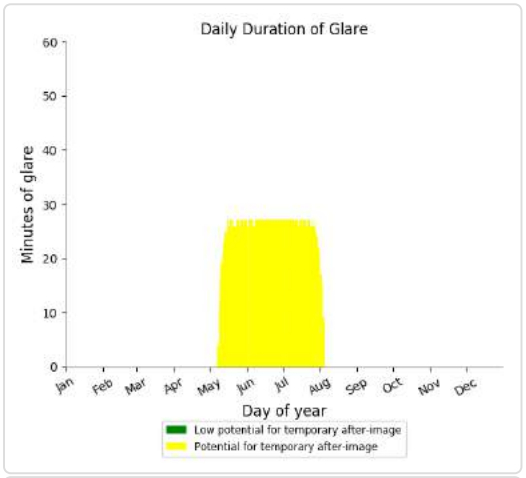
No glare found

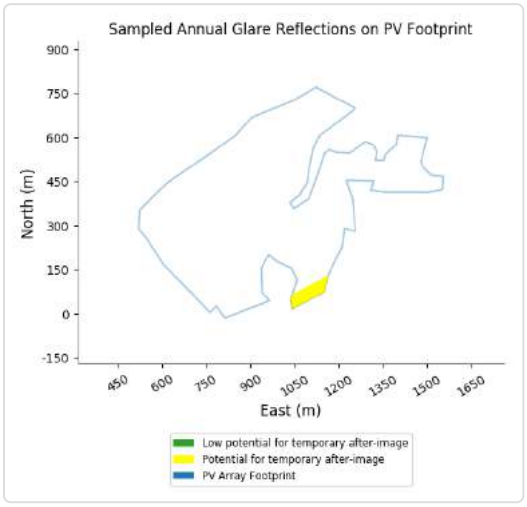
PV array 3 - OP Receptor (OP 16)

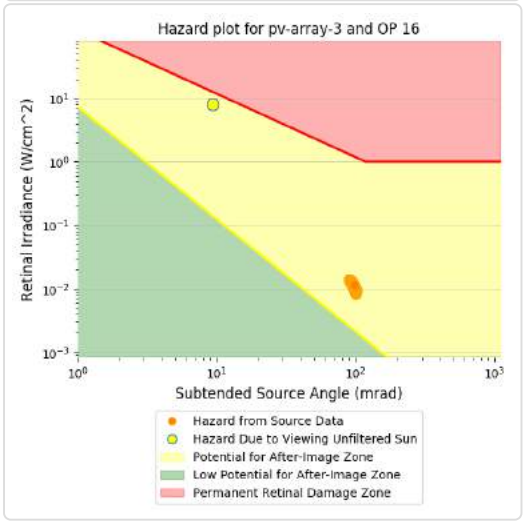
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,262 minutes of "yellow" glare with potential to cause temporary after-image.





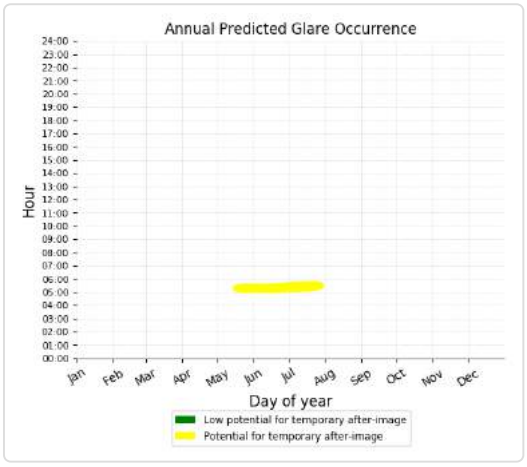


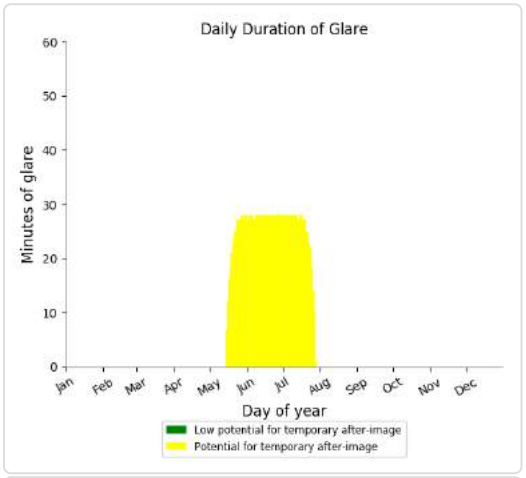


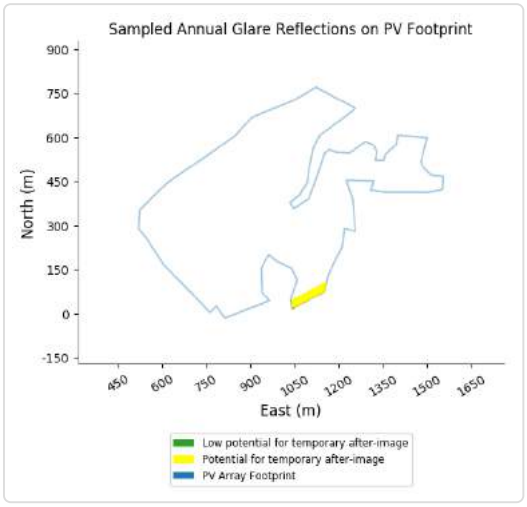
PV array 3 - OP Receptor (OP 17)

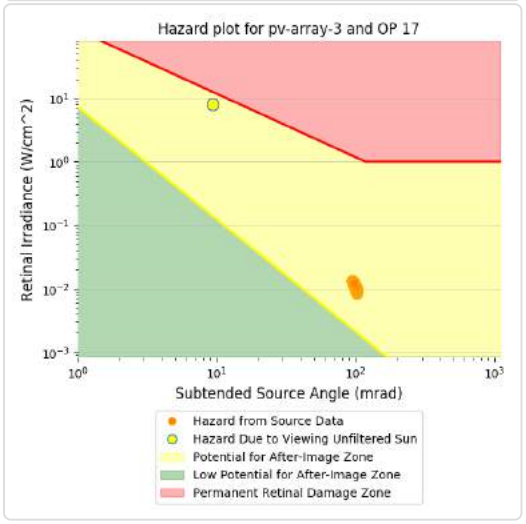
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,945 minutes of "yellow" glare with potential to cause temporary after-image.





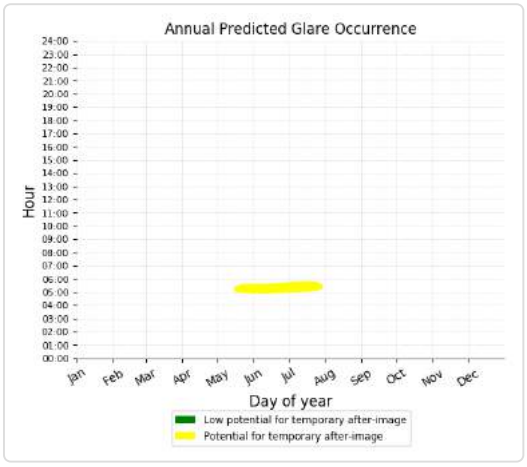


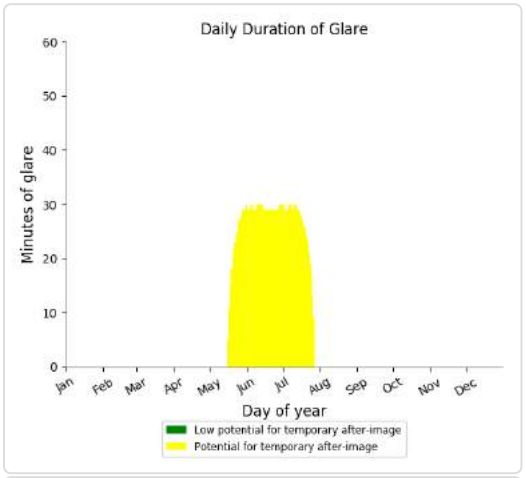


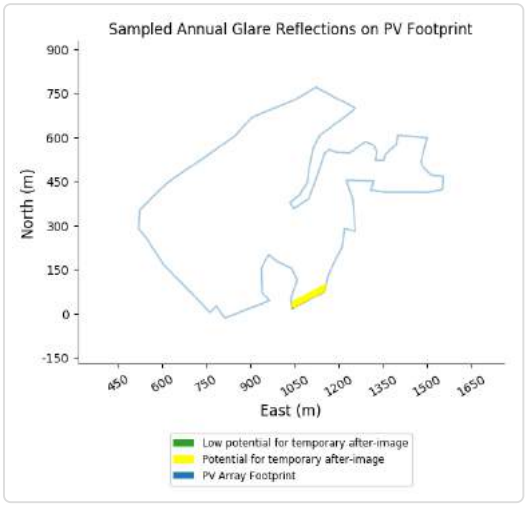
PV array 3 - OP Receptor (OP 18)

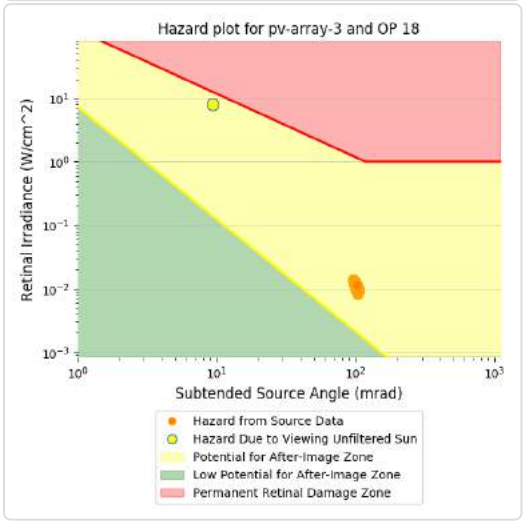
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,944 minutes of "yellow" glare with potential to cause temporary after-image.





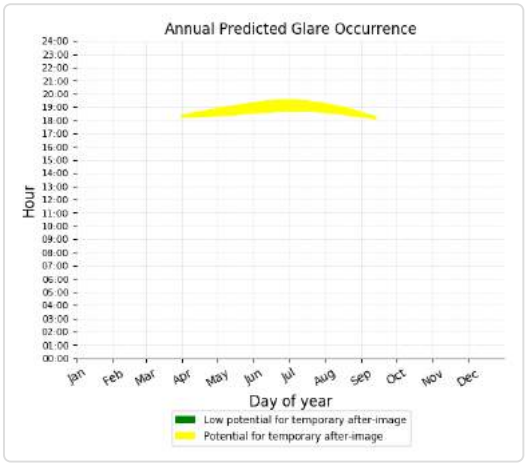


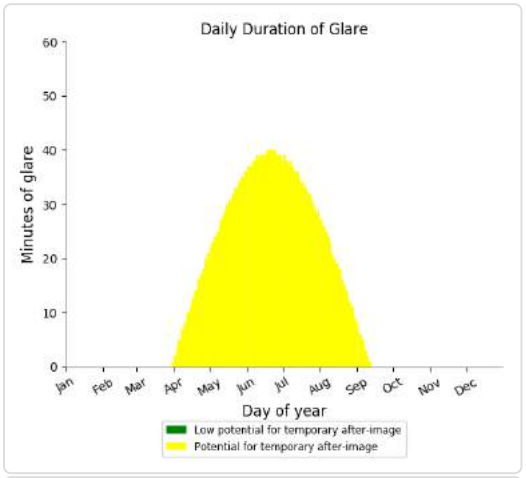


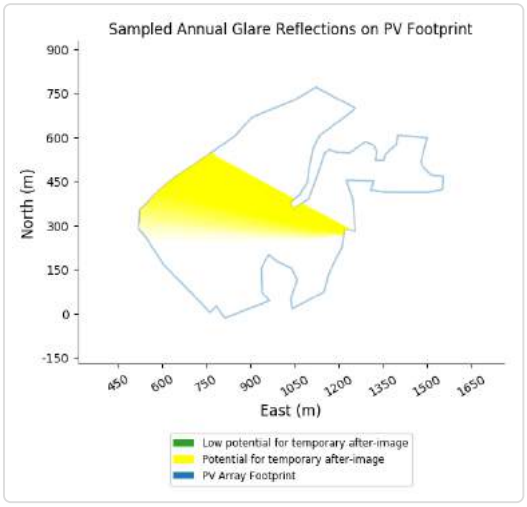
PV array 3 - OP Receptor (OP 19)

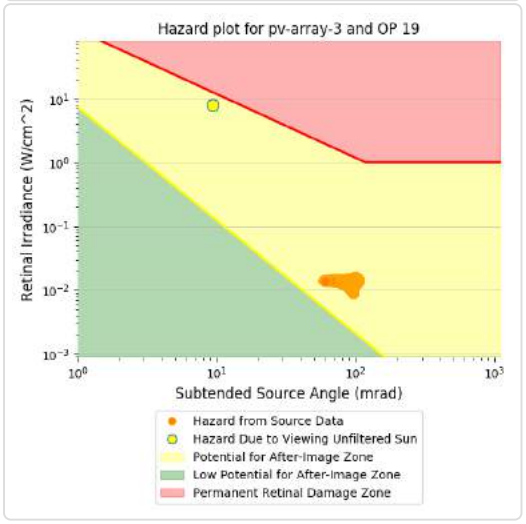
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 4,122 minutes of "yellow" glare with potential to cause temporary after-image.





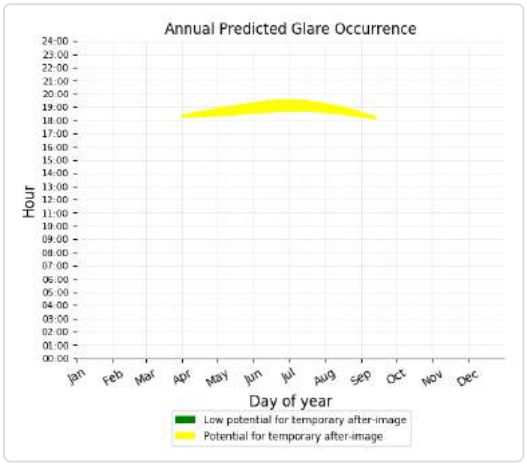


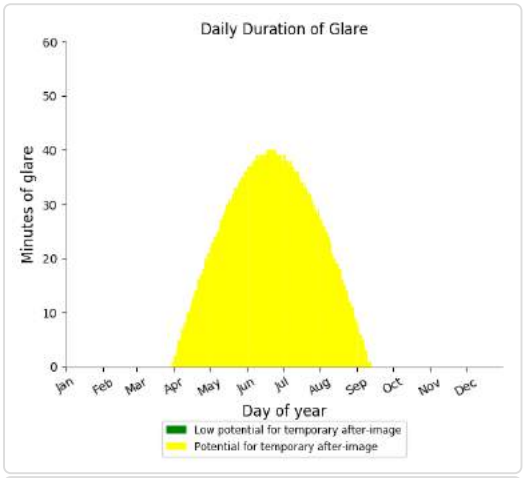


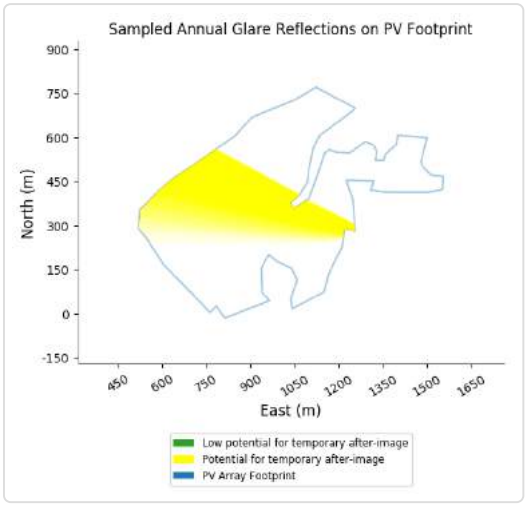
PV array 3 - OP Receptor (OP 20)

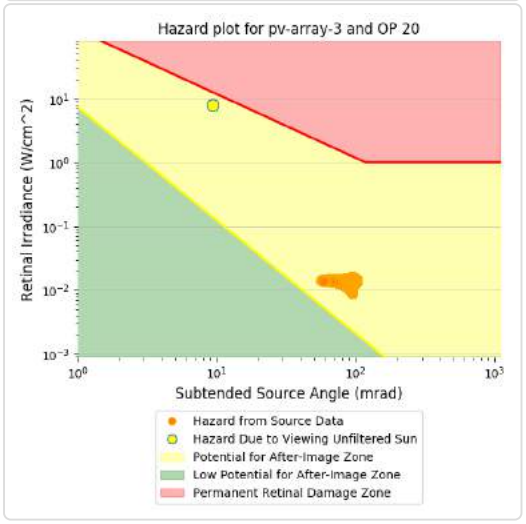
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 4,121 minutes of "yellow" glare with potential to cause temporary after-image.





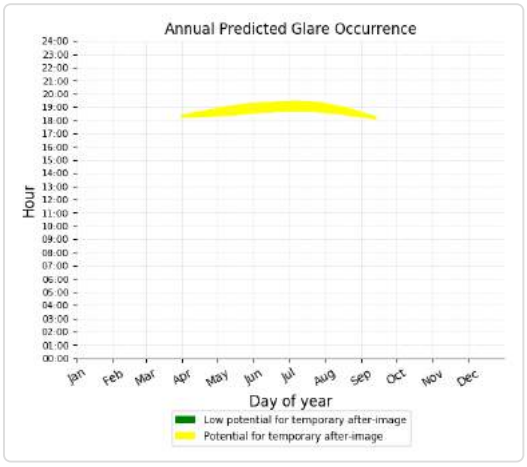


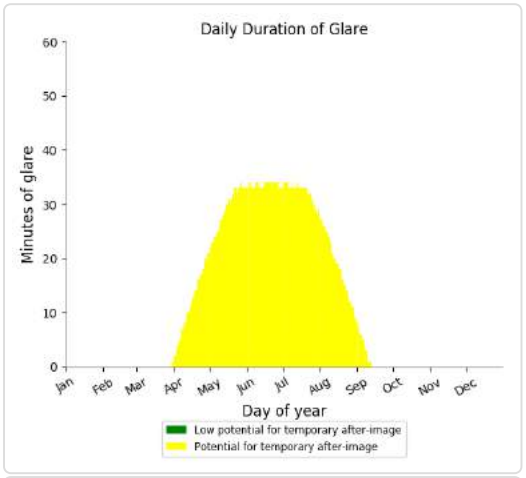


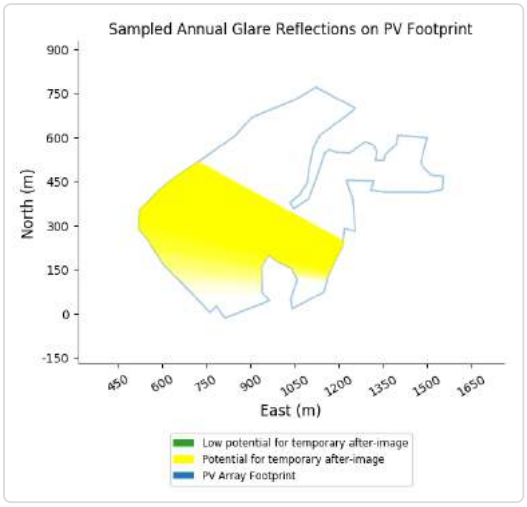
PV array 3 - OP Receptor (OP 21)

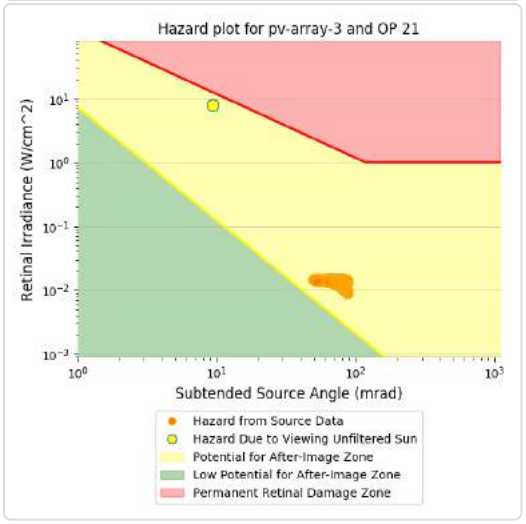
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,887 minutes of "yellow" glare with potential to cause temporary after-image.





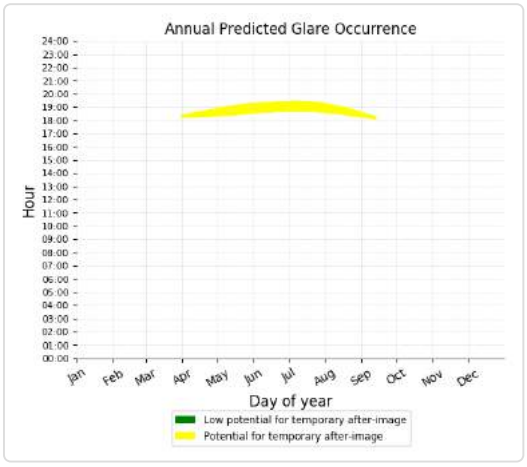


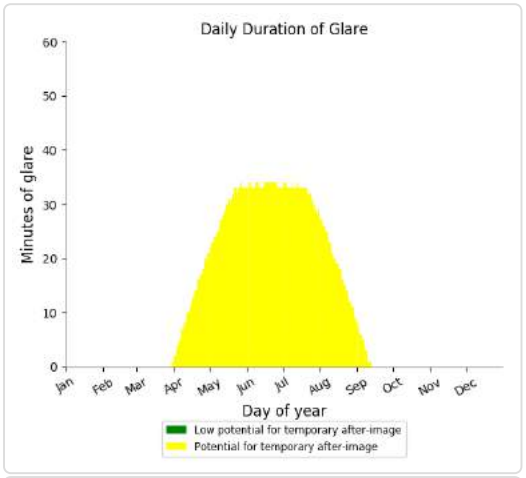


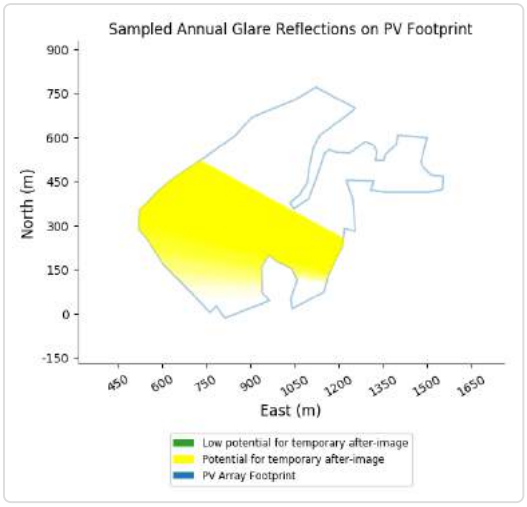
PV array 3 - OP Receptor (OP 22)

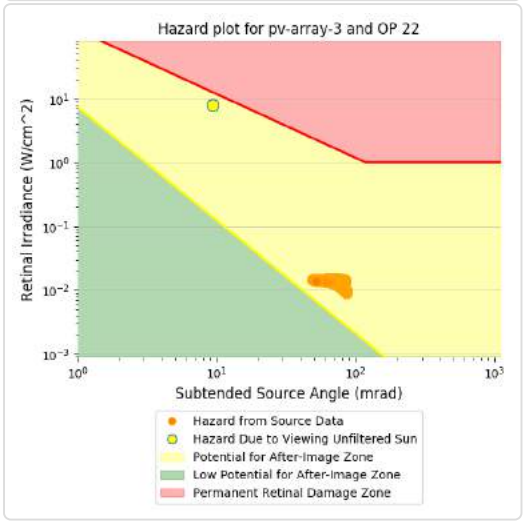
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,884 minutes of "yellow" glare with potential to cause temporary after-image.





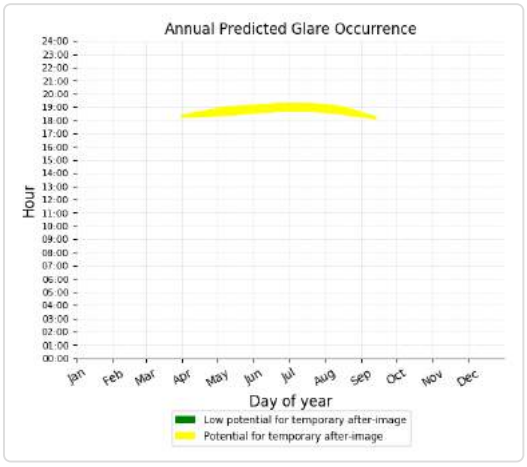


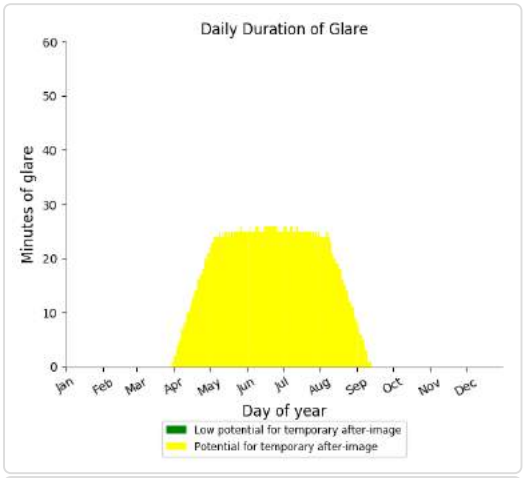


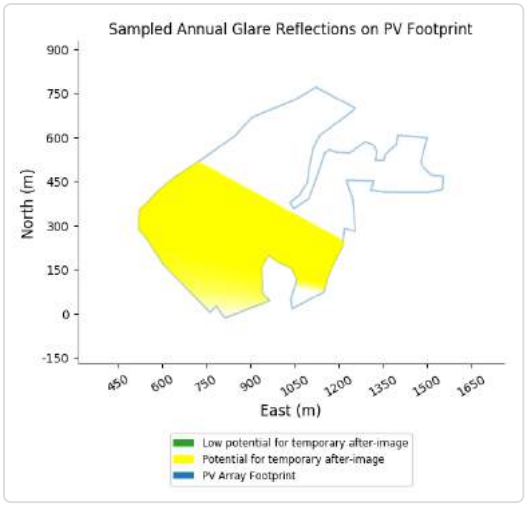
PV array 3 - OP Receptor (OP 23)

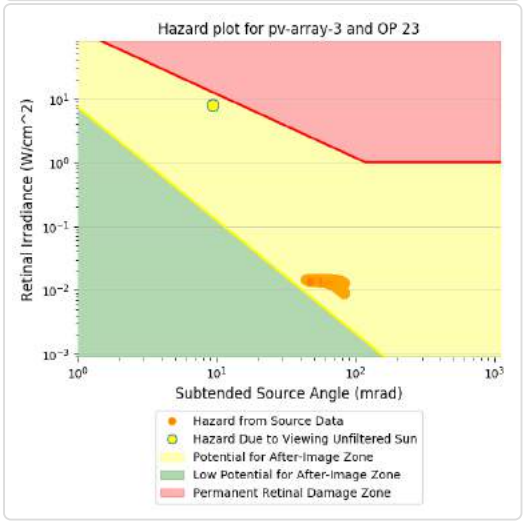
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,263 minutes of "yellow" glare with potential to cause temporary after-image.





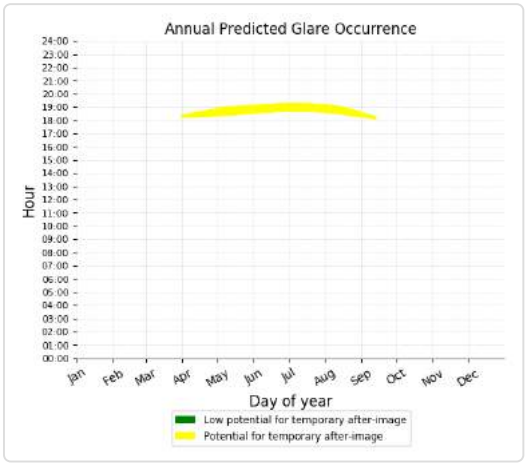


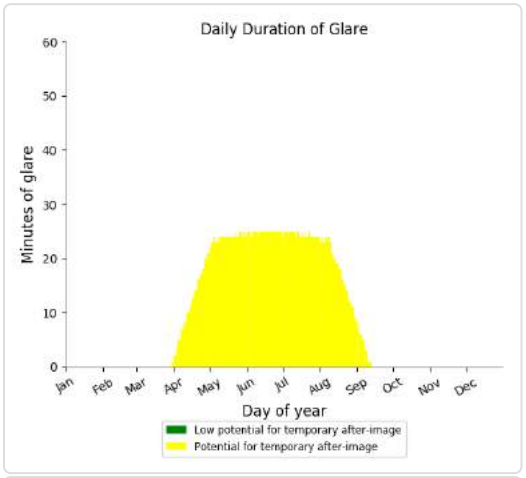


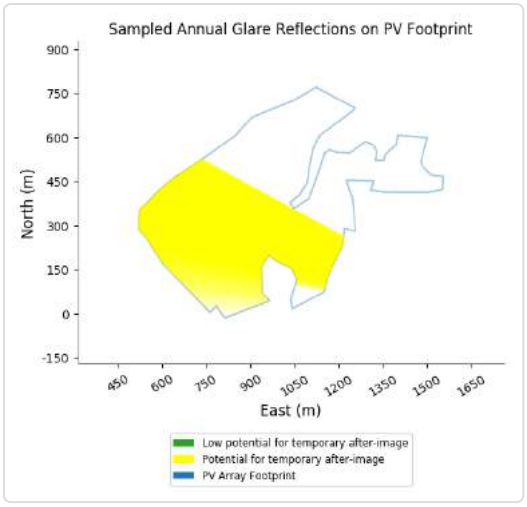
PV array 3 - OP Receptor (OP 24)

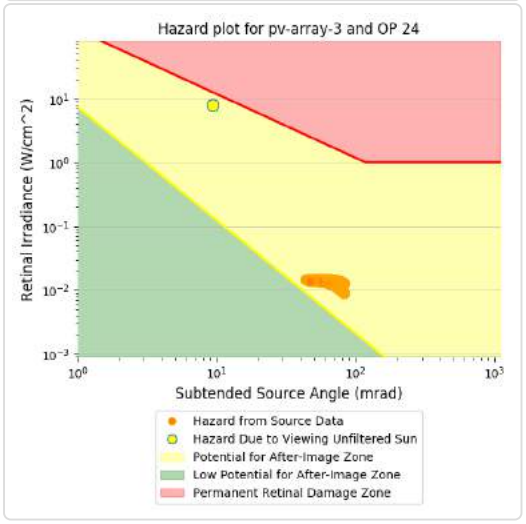
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,206 minutes of "yellow" glare with potential to cause temporary after-image.





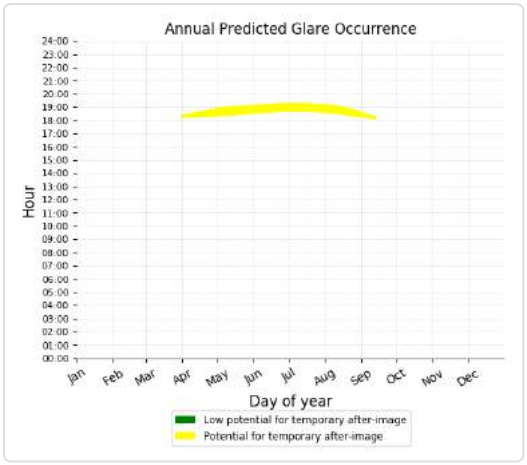


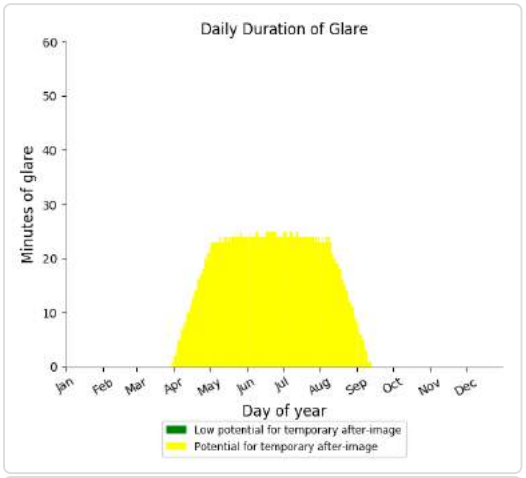


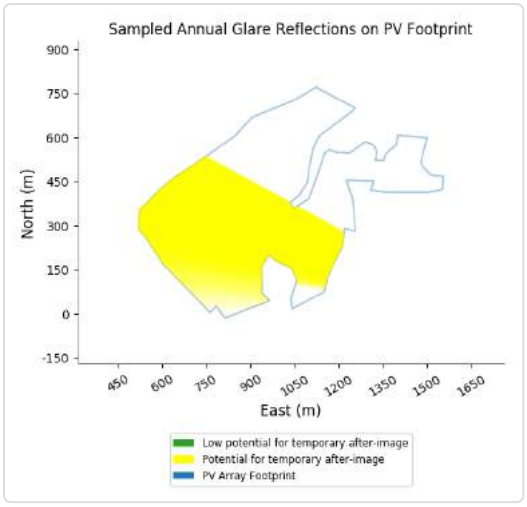
PV array 3 - OP Receptor (OP 25)

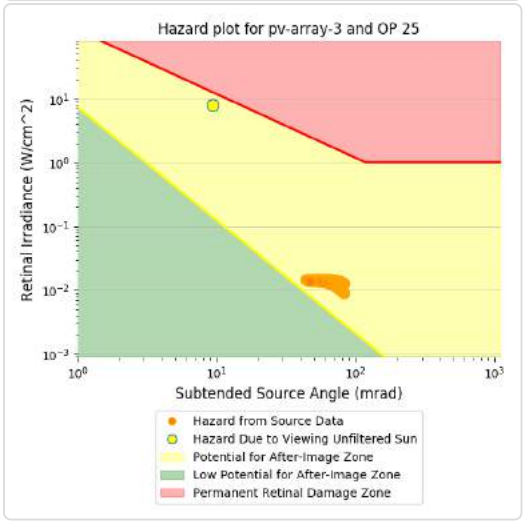
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,169 minutes of "yellow" glare with potential to cause temporary after-image.





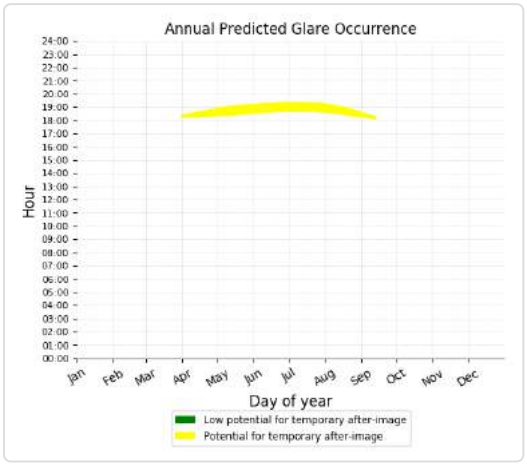


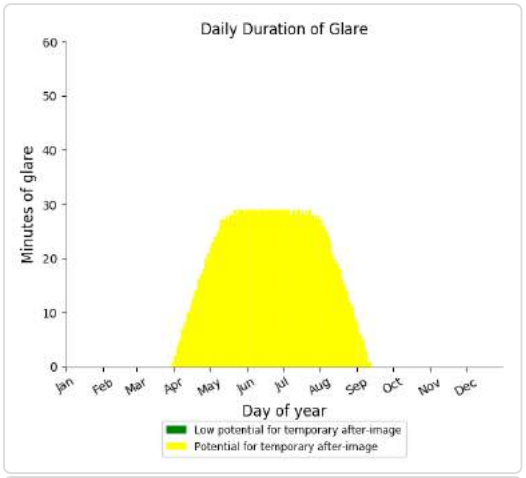


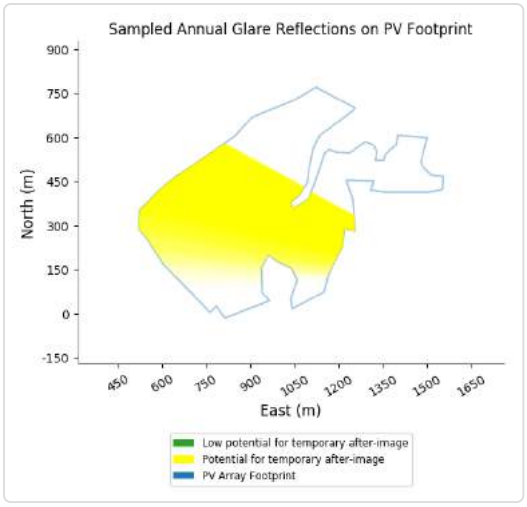
PV array 3 - OP Receptor (OP 26)

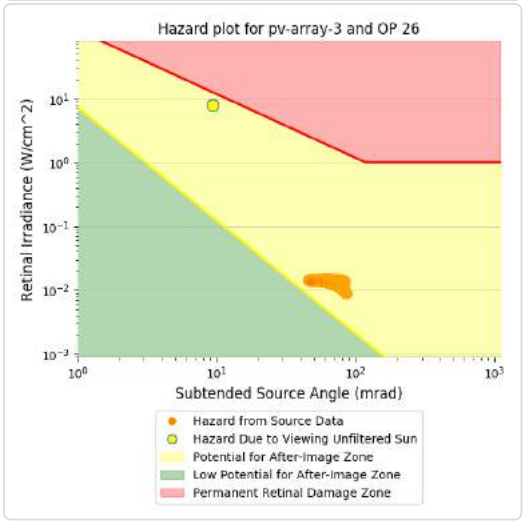
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,566 minutes of "yellow" glare with potential to cause temporary after-image.





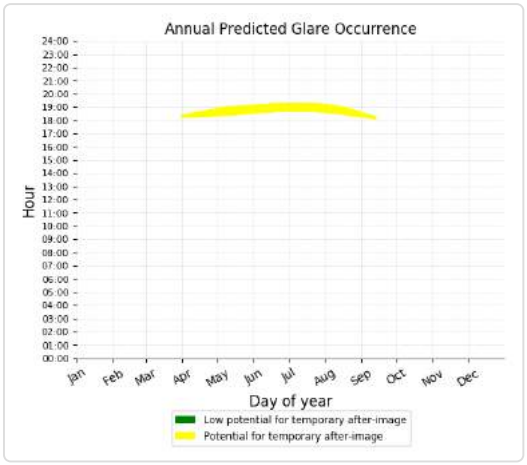


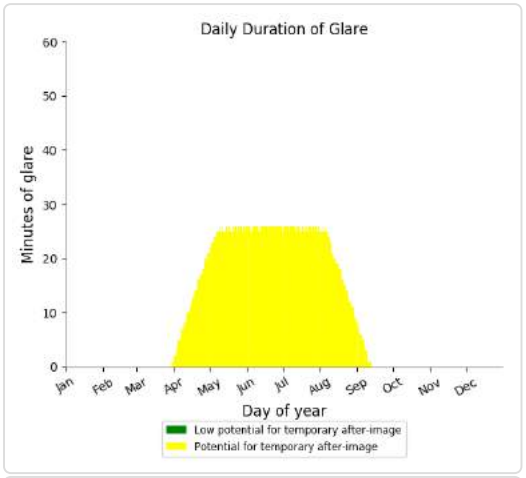


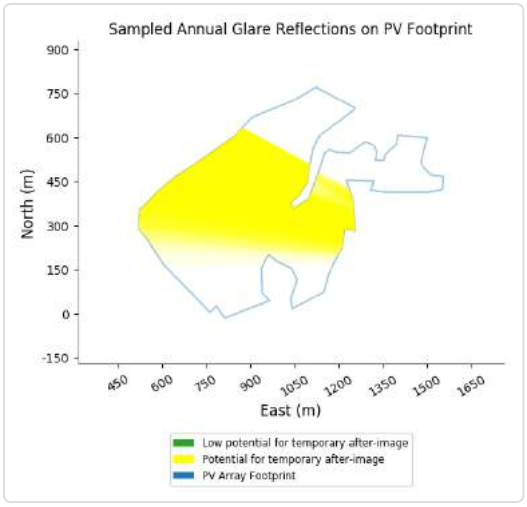
PV array 3 - OP Receptor (OP 27)

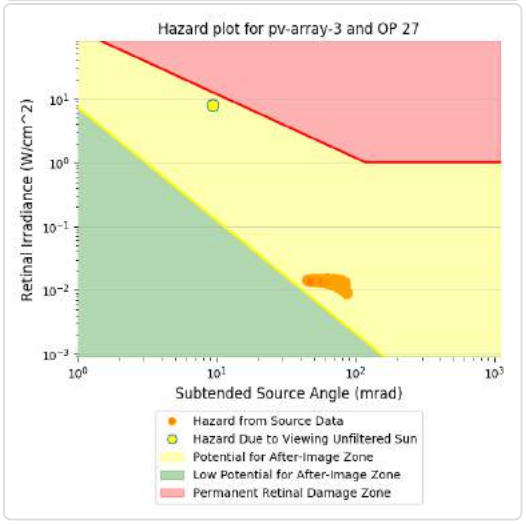
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,322 minutes of "yellow" glare with potential to cause temporary after-image.





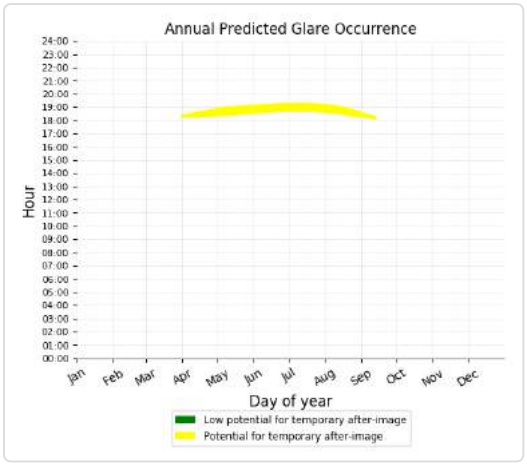


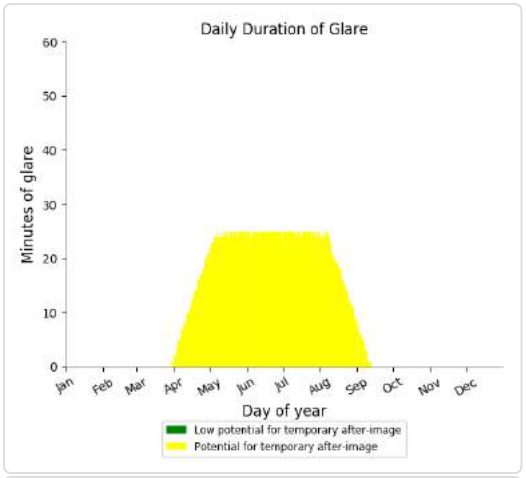


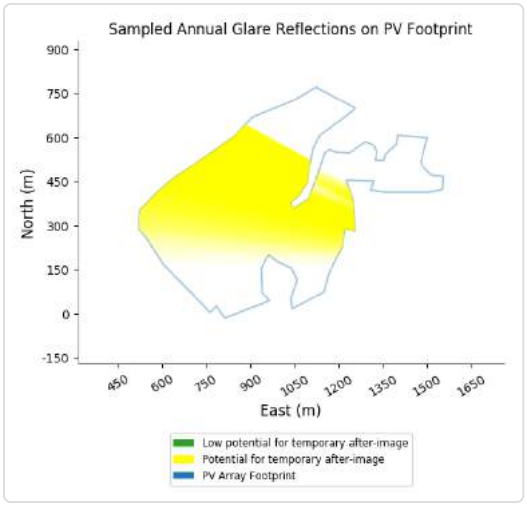
PV array 3 - OP Receptor (OP 28)

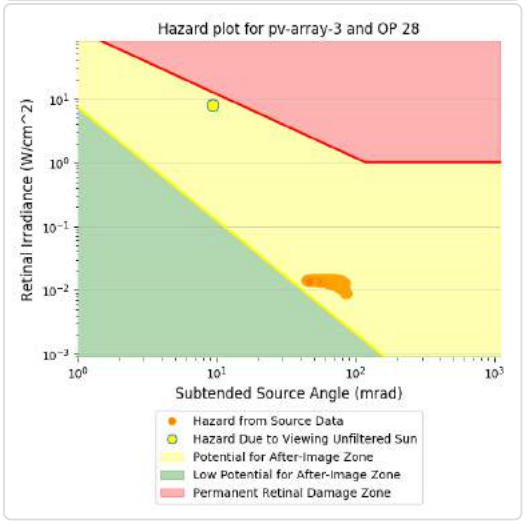
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,239 minutes of "yellow" glare with potential to cause temporary after-image.





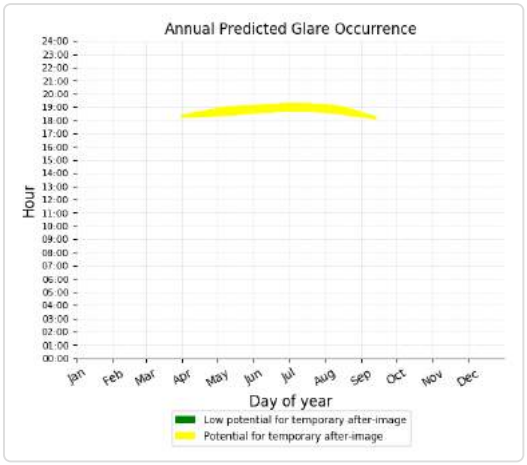


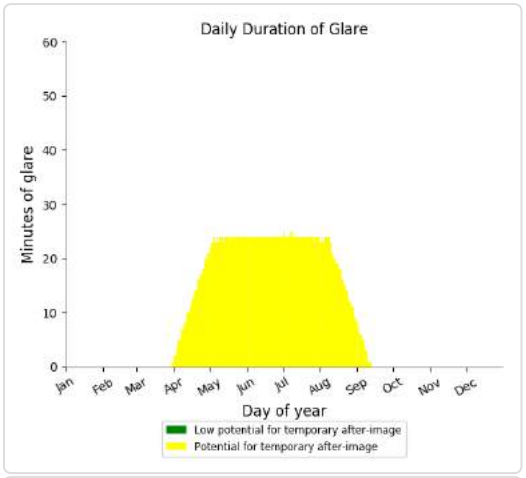


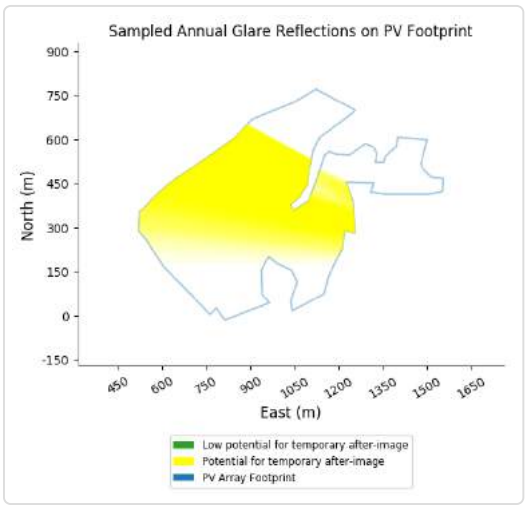
PV array 3 - OP Receptor (OP 29)

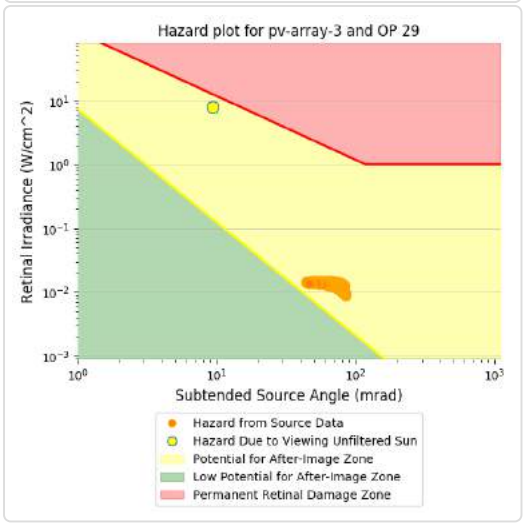
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,161 minutes of "yellow" glare with potential to cause temporary after-image.





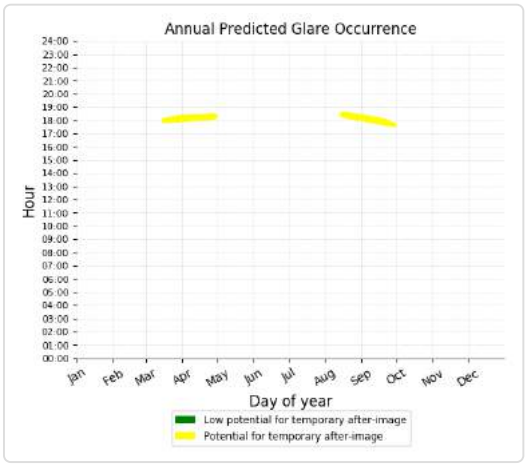


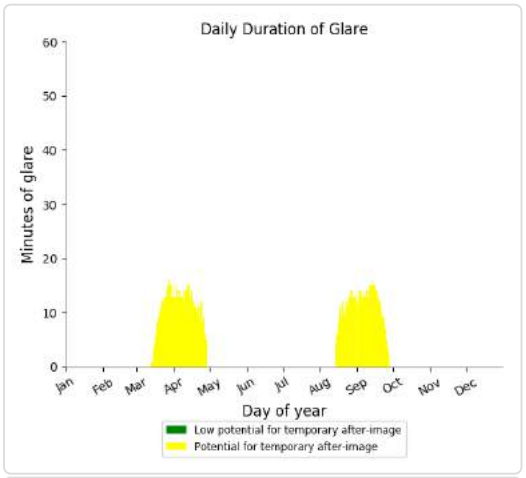


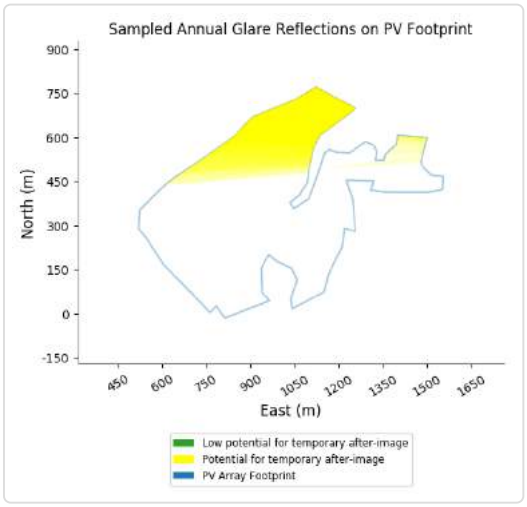
PV array 3 - OP Receptor (OP 30)

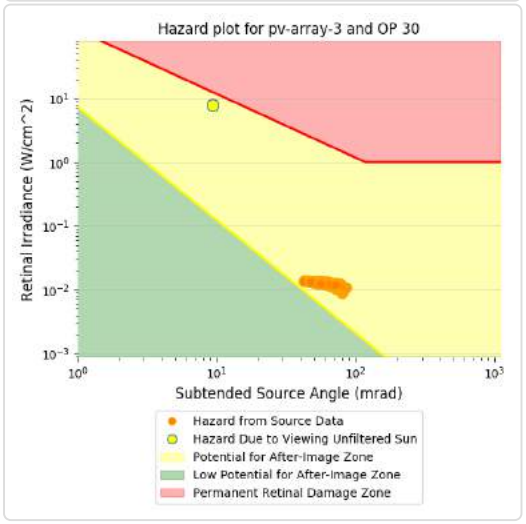
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,050 minutes of "yellow" glare with potential to cause temporary after-image.





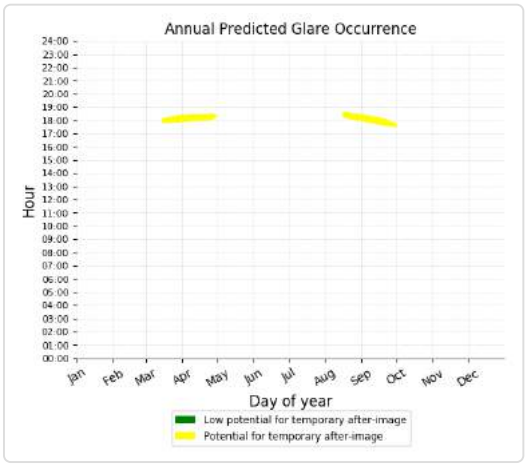


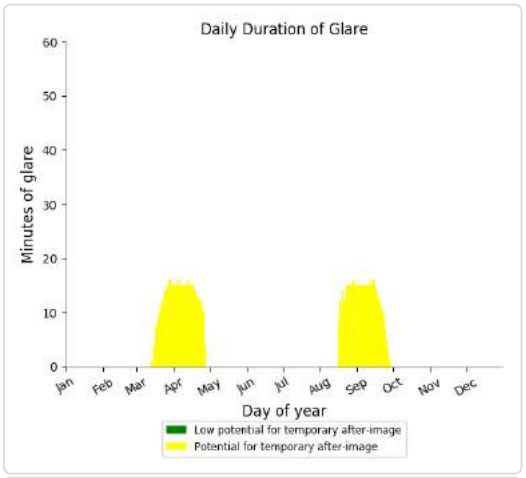


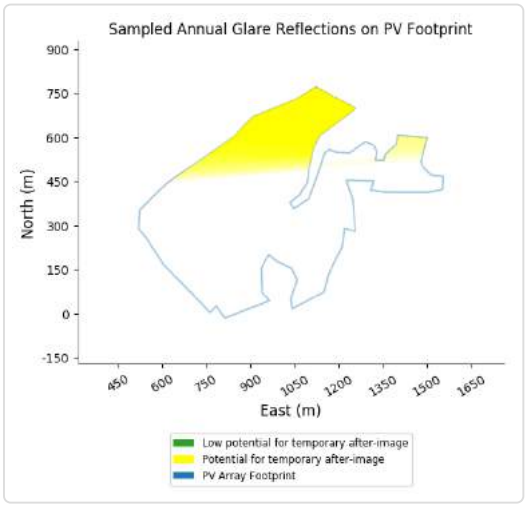
PV array 3 - OP Receptor (OP 31)

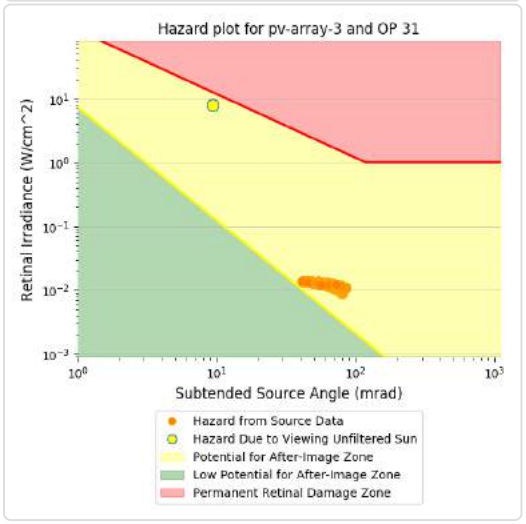
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,139 minutes of "yellow" glare with potential to cause temporary after-image.





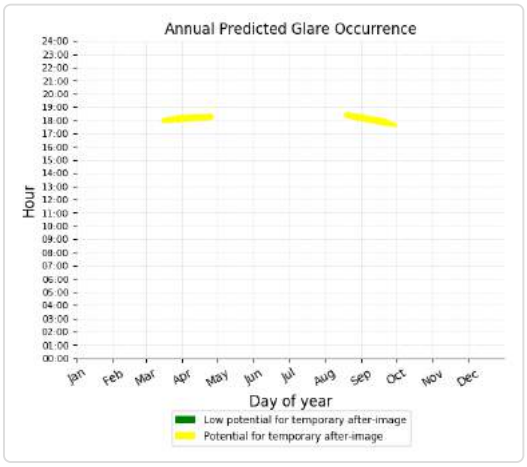


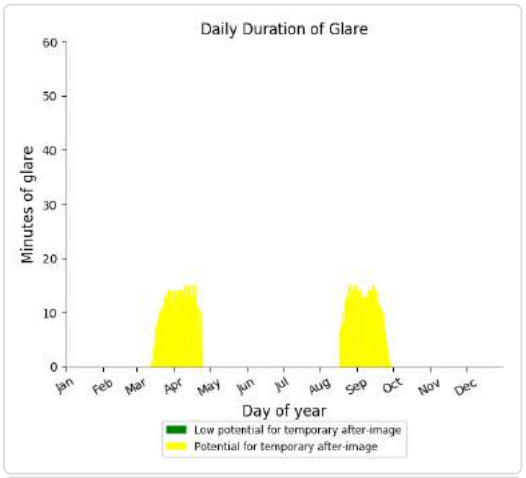


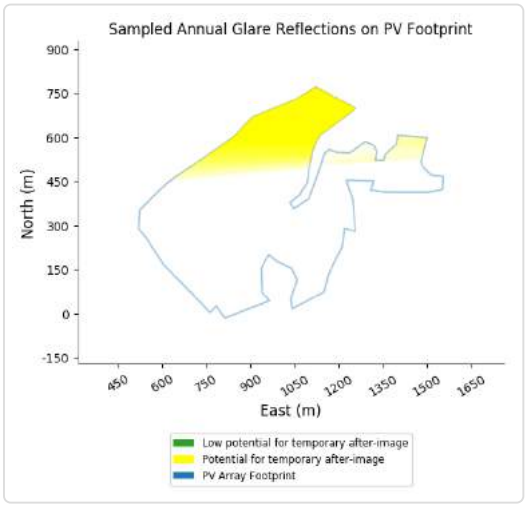
PV array 3 - OP Receptor (OP 32)

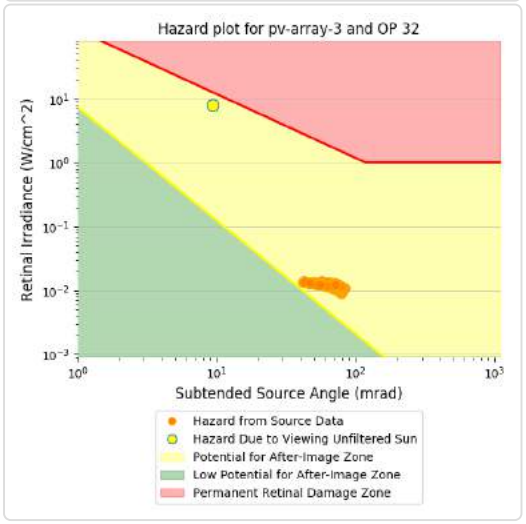
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,000 minutes of "yellow" glare with potential to cause temporary after-image.





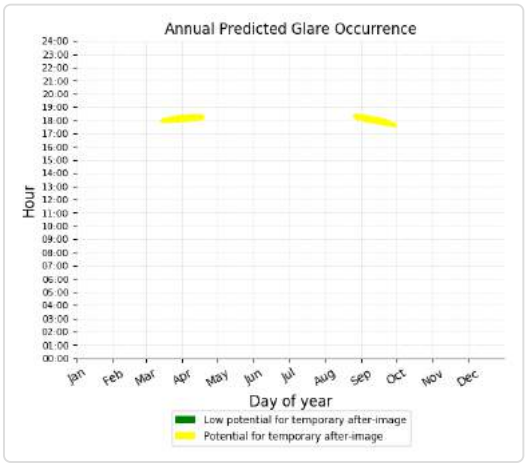


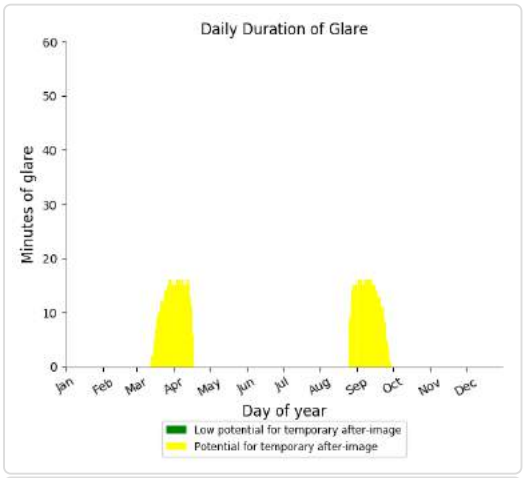


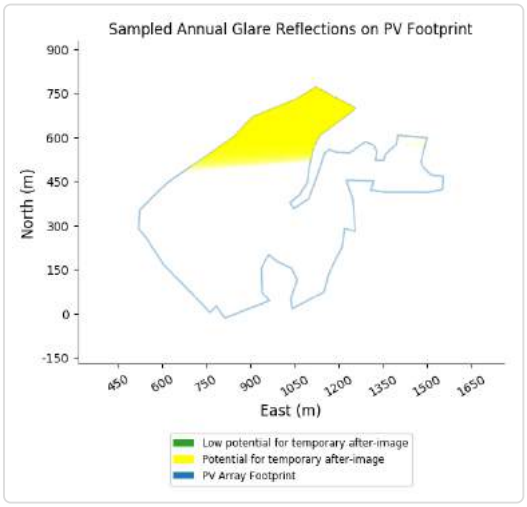
PV array 3 - OP Receptor (OP 33)

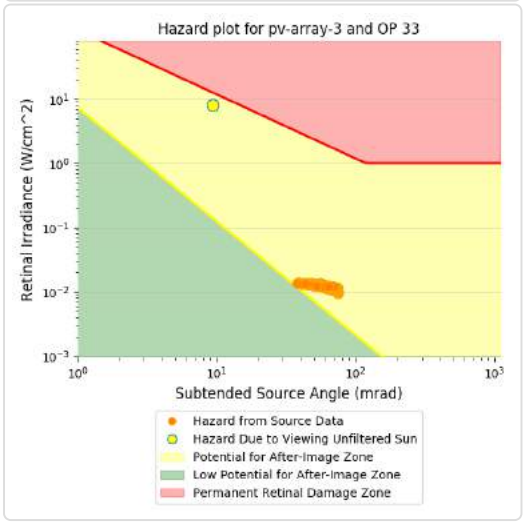
PV array is expected to produce the following glare for receptors at this location:

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









PV array 3 - OP Receptor (OP 34)

No glare found

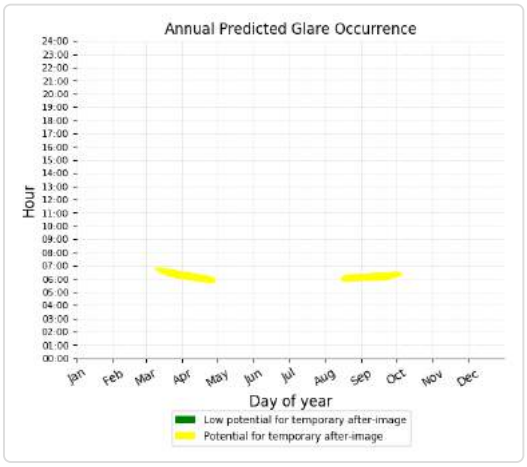
PV array 3 - OP Receptor (OP 35)

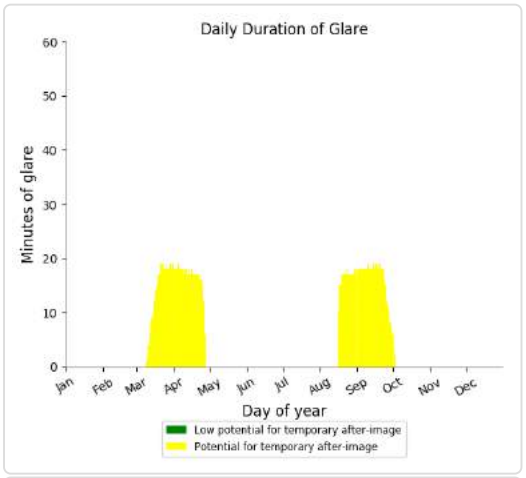
No glare found

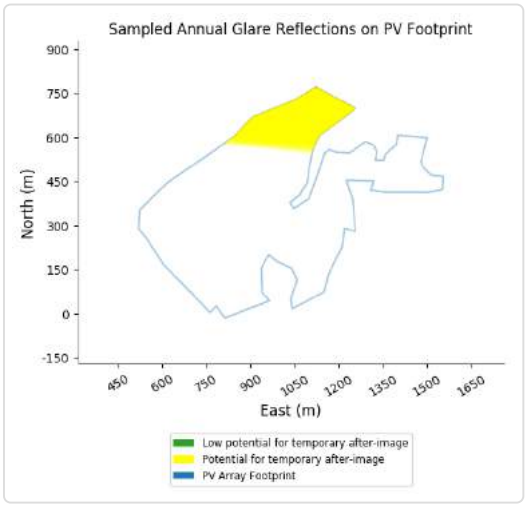
PV array 3 - OP Receptor (OP 36)

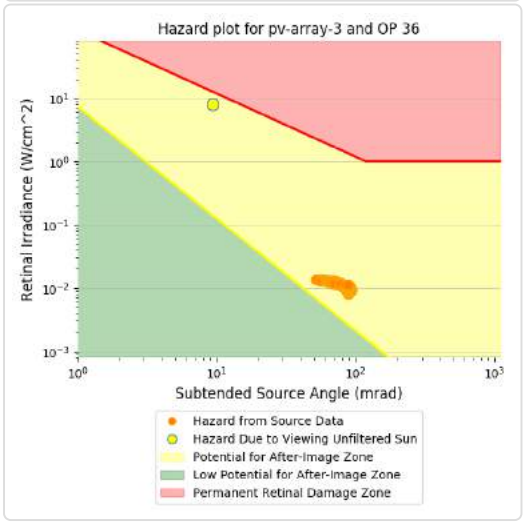
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,544 minutes of "yellow" glare with potential to cause temporary after-image.





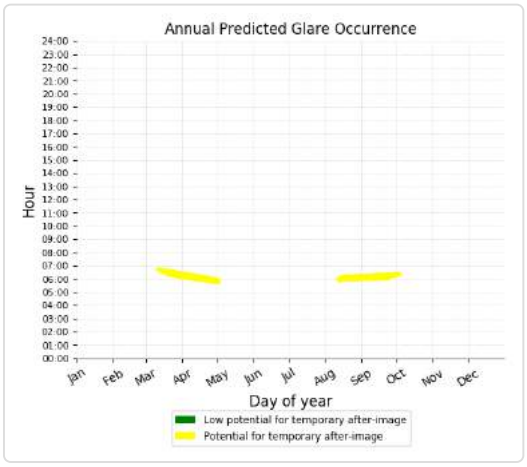


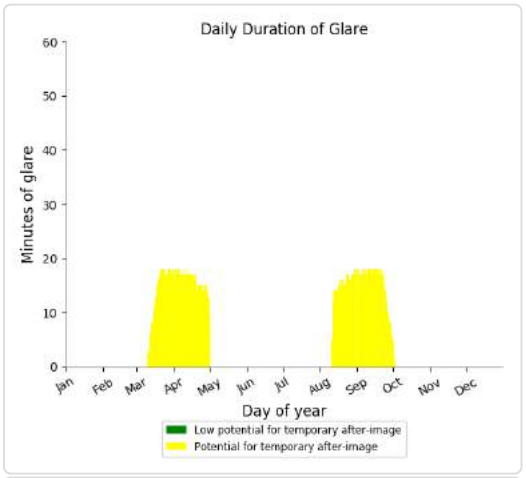


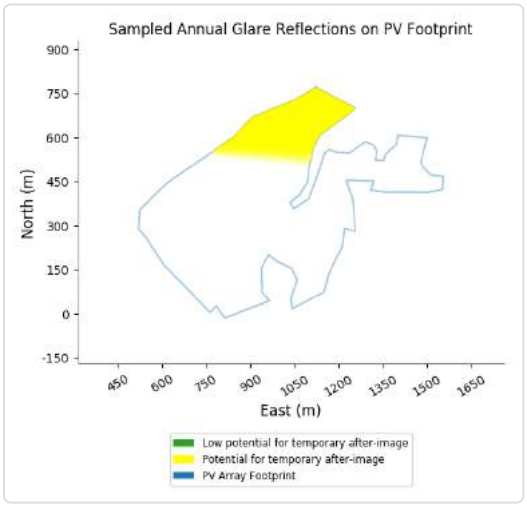
PV array 3 - OP Receptor (OP 37)

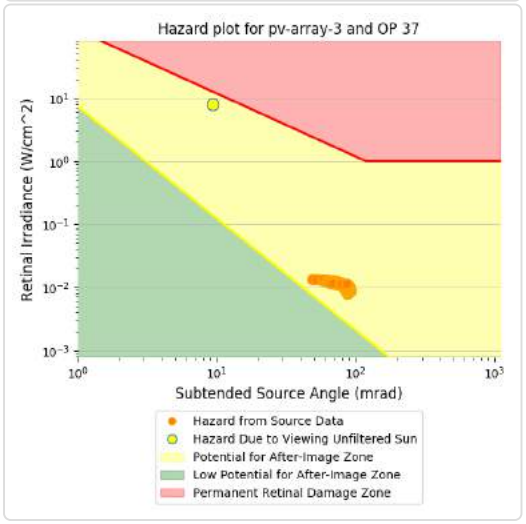
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,606 minutes of "yellow" glare with potential to cause temporary after-image.





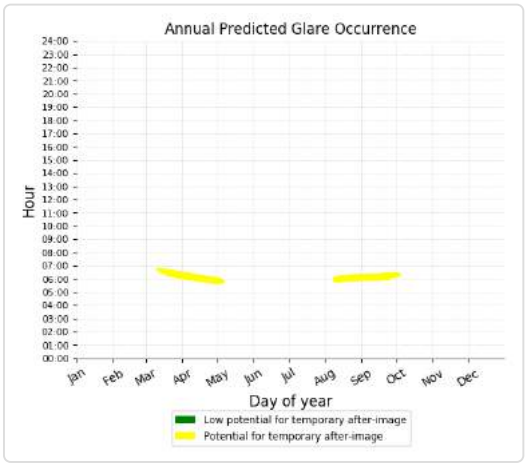


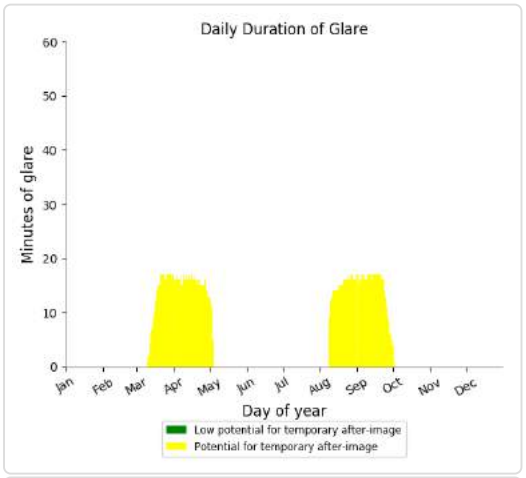


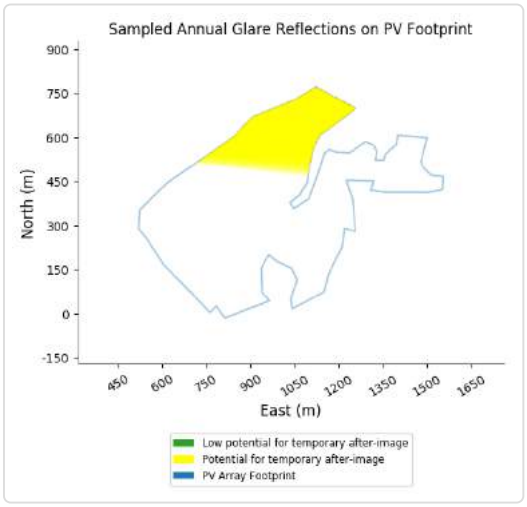
PV array 3 - OP Receptor (OP 38)

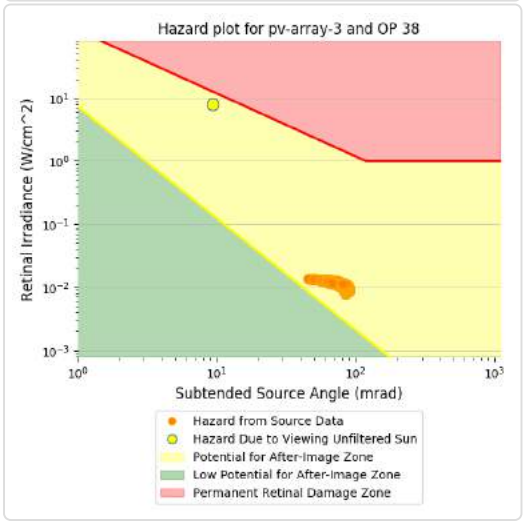
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,591 minutes of "yellow" glare with potential to cause temporary after-image.









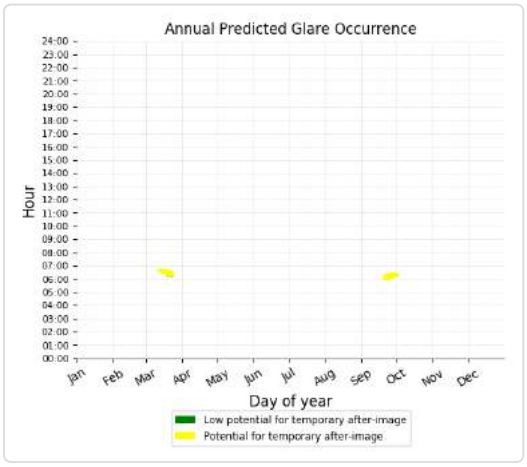
PV array 3 - OP Receptor (OP 39)

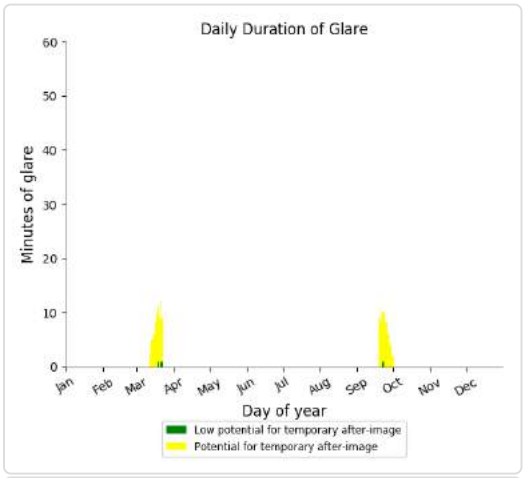
No glare found

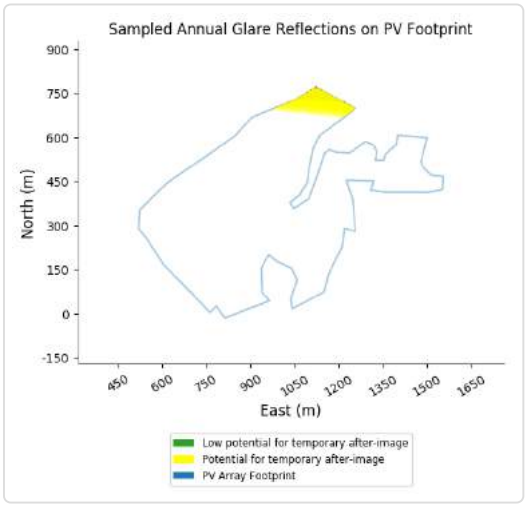
PV array 3 - OP Receptor (OP 40)

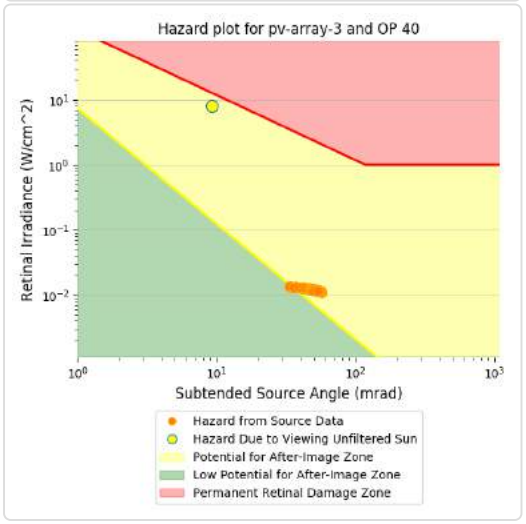
PV array is expected to produce the following glare for receptors at this location:

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





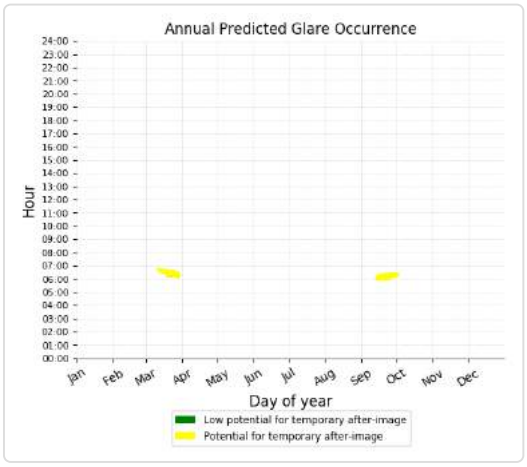


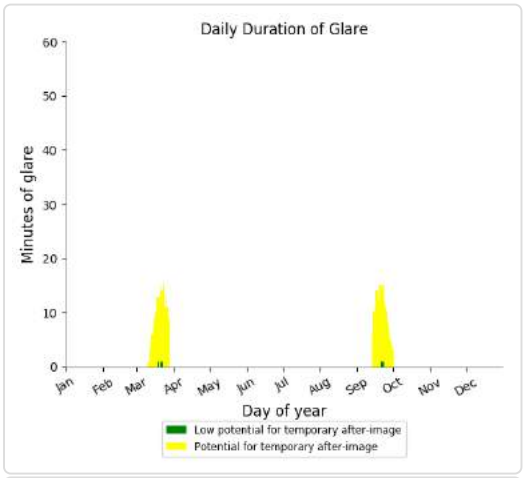


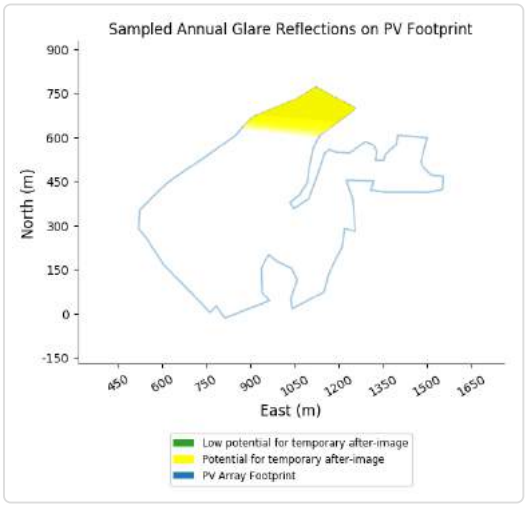
PV array 3 - OP Receptor (OP 41)

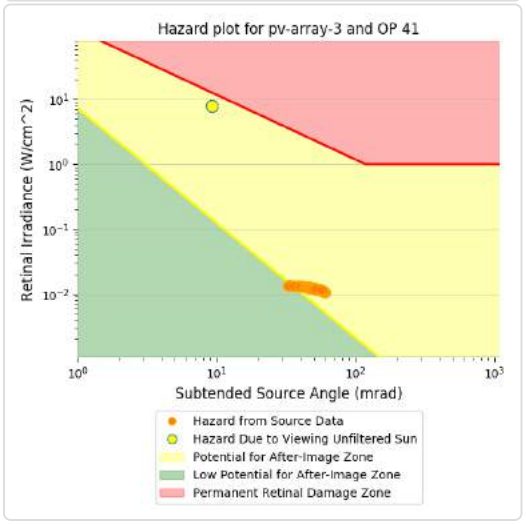
PV array is expected to produce the following glare for receptors at this location:

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





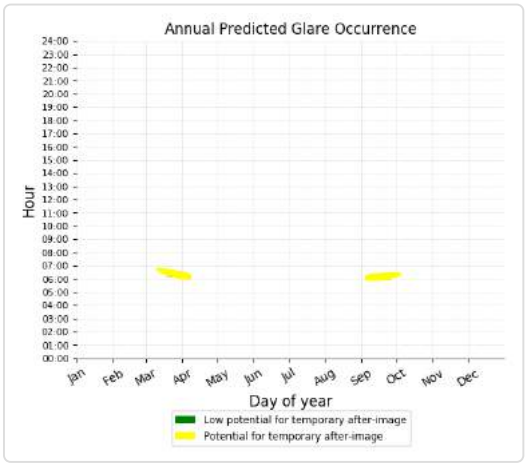


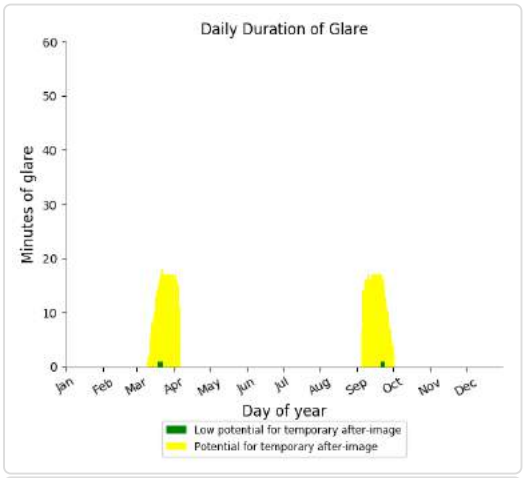


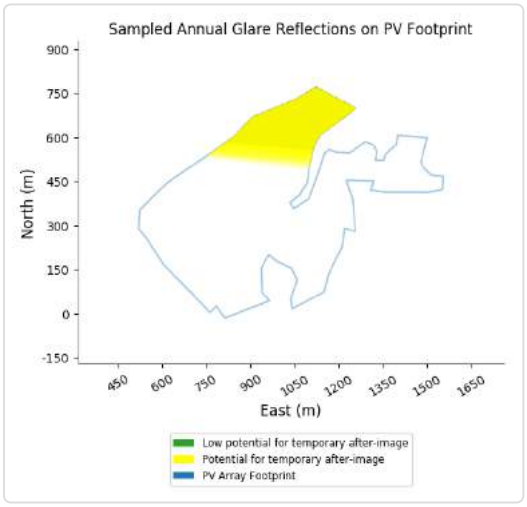
PV array 3 - OP Receptor (OP 42)

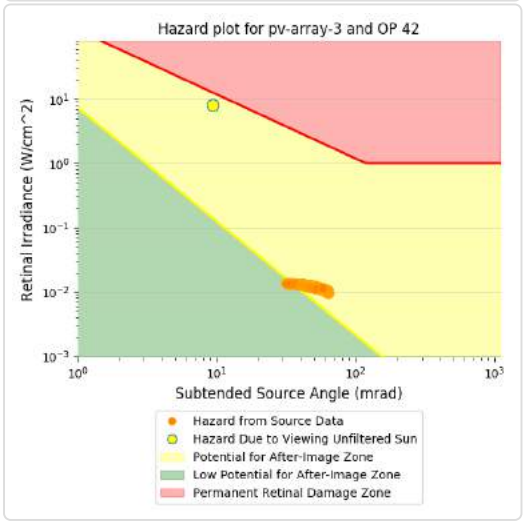
PV array is expected to produce the following glare for receptors at this location:

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





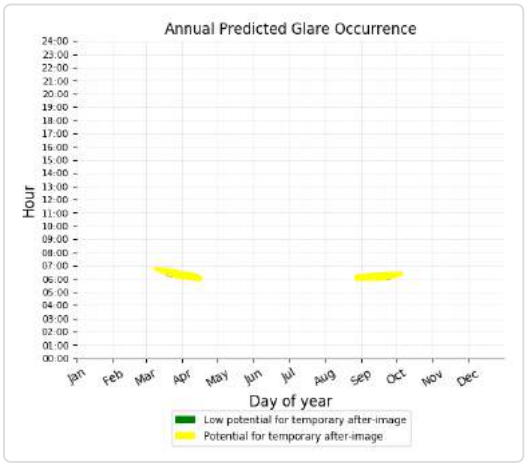


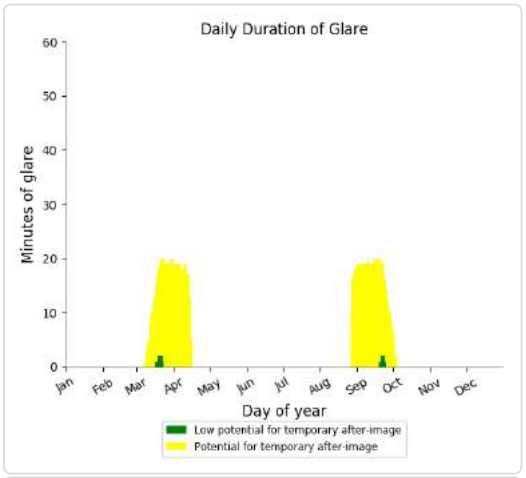


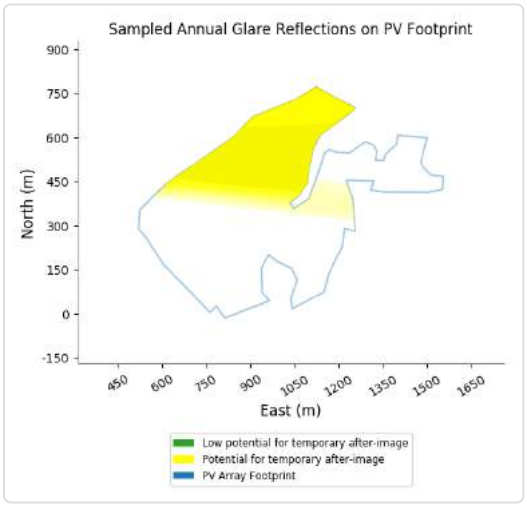
PV array 3 - OP Receptor (OP 43)

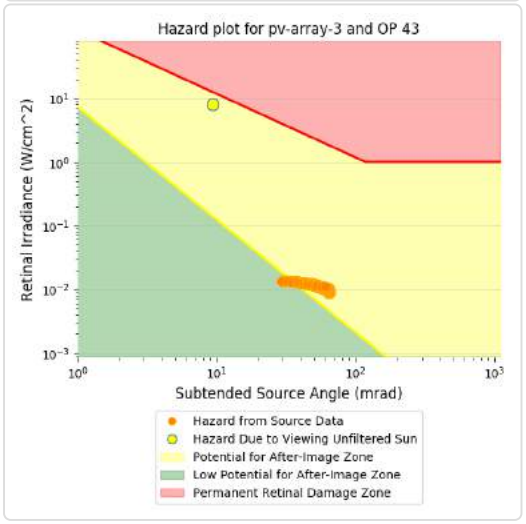
PV array is expected to produce the following glare for receptors at this location:

- 21 minutes of "green" glare with low potential to cause temporary after-image.
- 1,232 minutes of "yellow" glare with potential to cause temporary after-image.





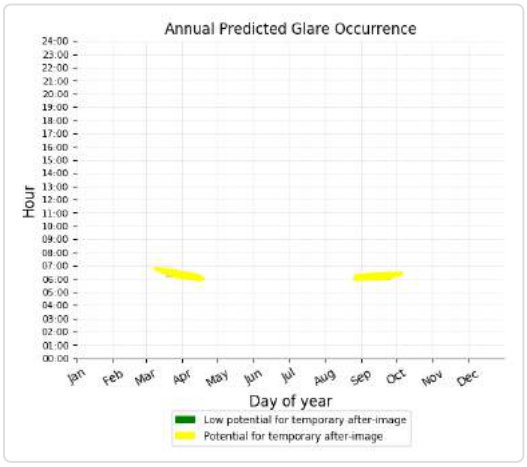


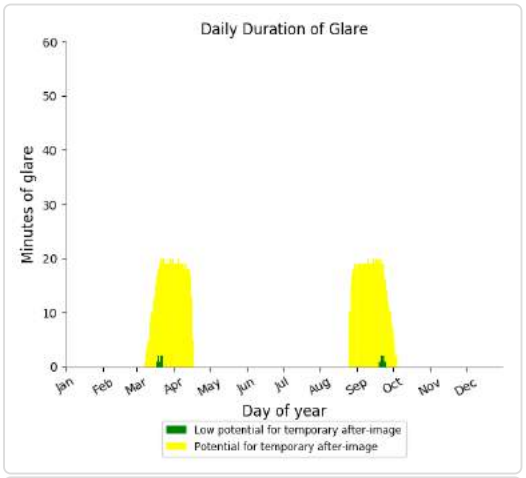


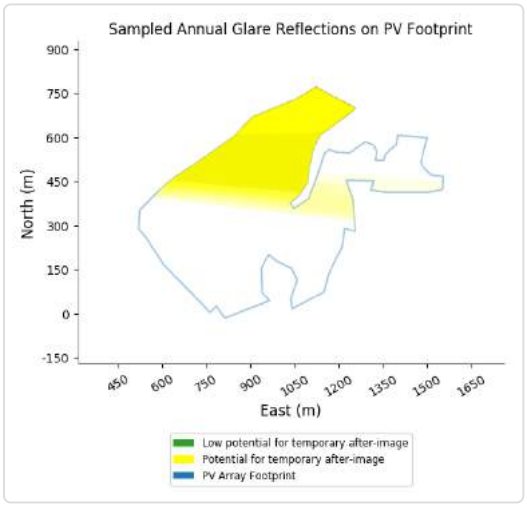
PV array 3 - OP Receptor (OP 44)

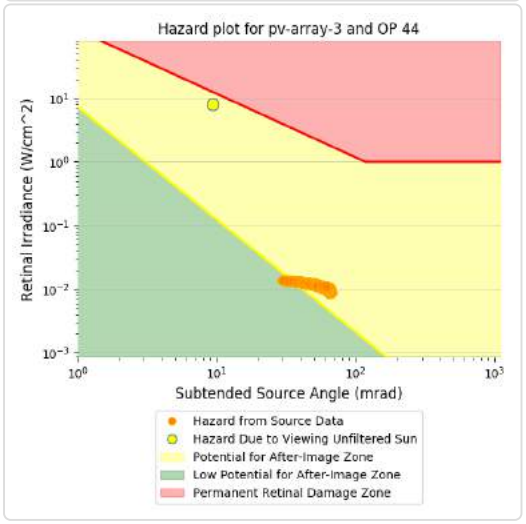
PV array is expected to produce the following glare for receptors at this location:

- 17 minutes of "green" glare with low potential to cause temporary after-image.
- 1,276 minutes of "yellow" glare with potential to cause temporary after-image.





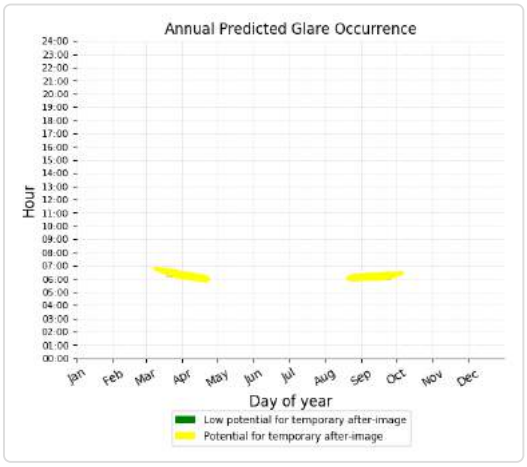


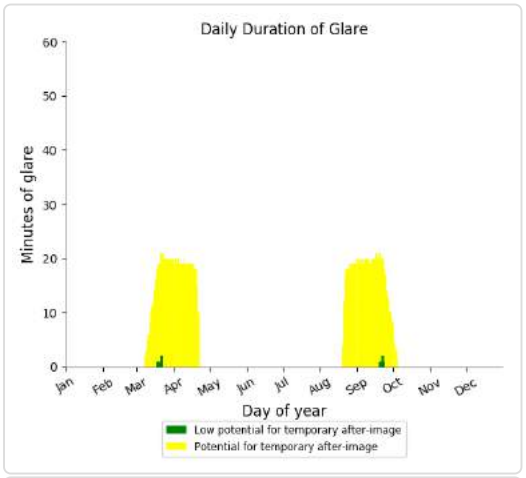


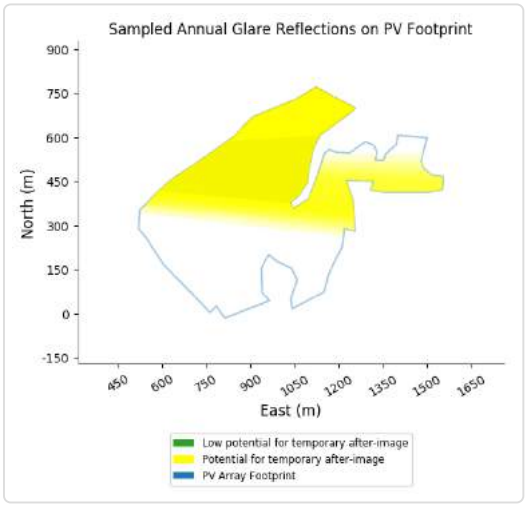
PV array 3 - OP Receptor (OP 45)

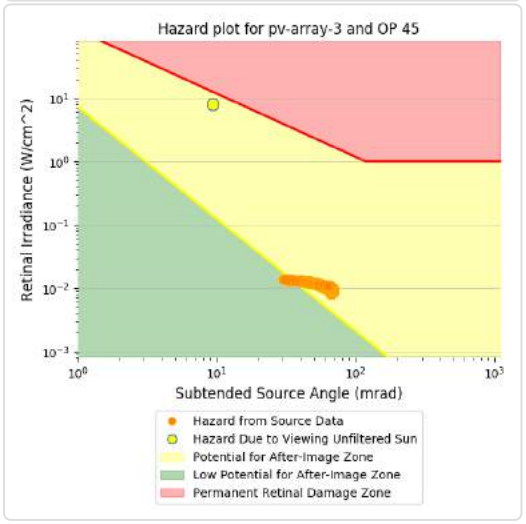
PV array is expected to produce the following glare for receptors at this location:

- 14 minutes of "green" glare with low potential to cause temporary after-image.
- 1,532 minutes of "yellow" glare with potential to cause temporary after-image.





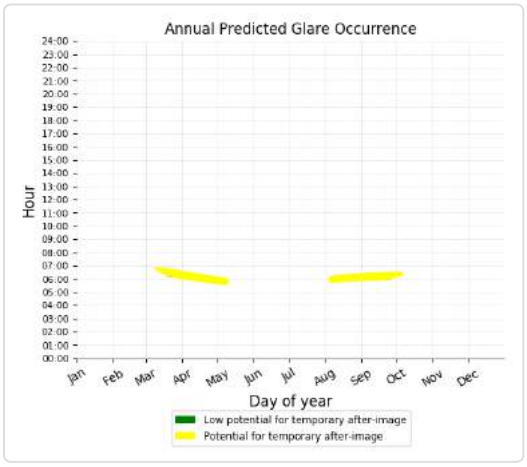


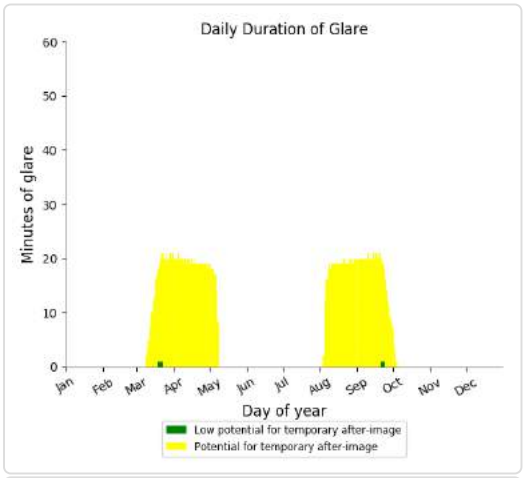


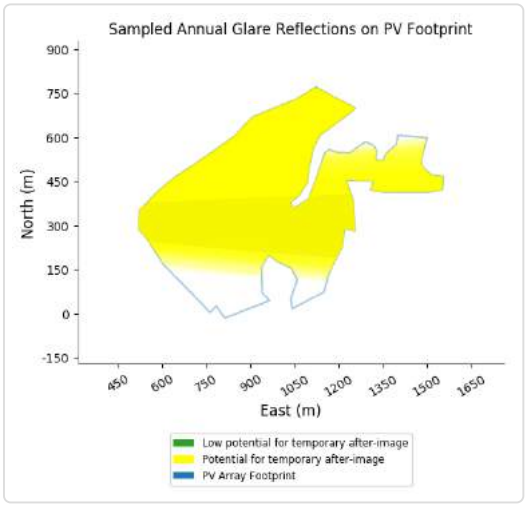
PV array 3 - OP Receptor (OP 46)

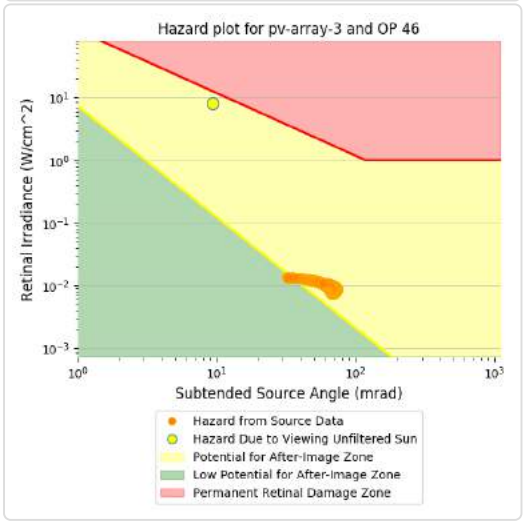
PV array is expected to produce the following glare for receptors at this location:

- 8 minutes of "green" glare with low potential to cause temporary after-image.
- 2,134 minutes of "yellow" glare with potential to cause temporary after-image.





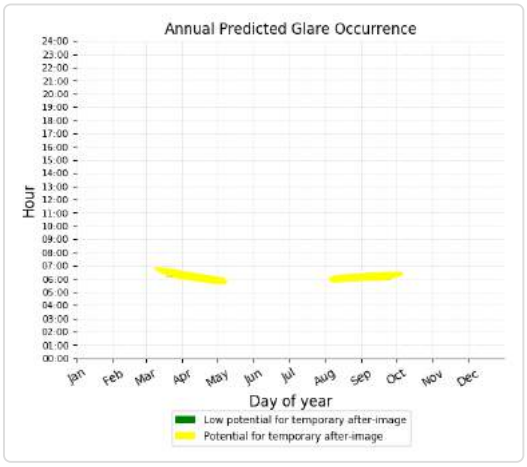


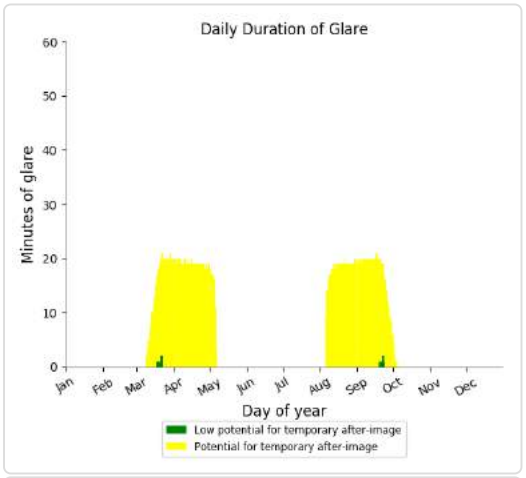


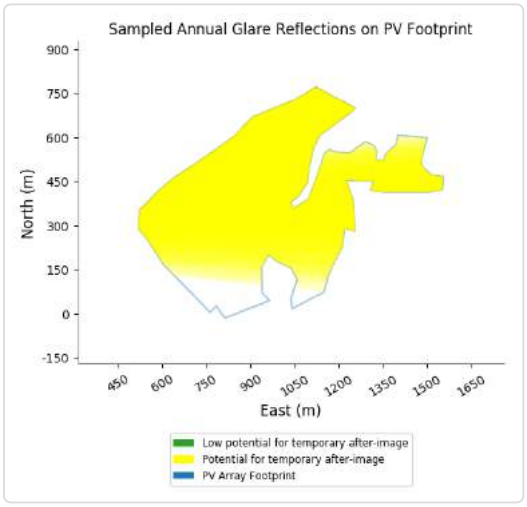
PV array 3 - OP Receptor (OP 47)

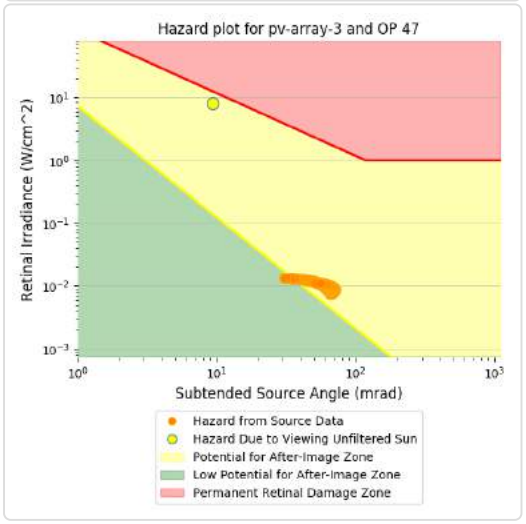
PV array is expected to produce the following glare for receptors at this location:

- 13 minutes of "green" glare with low potential to cause temporary after-image.
- 2,043 minutes of "yellow" glare with potential to cause temporary after-image.





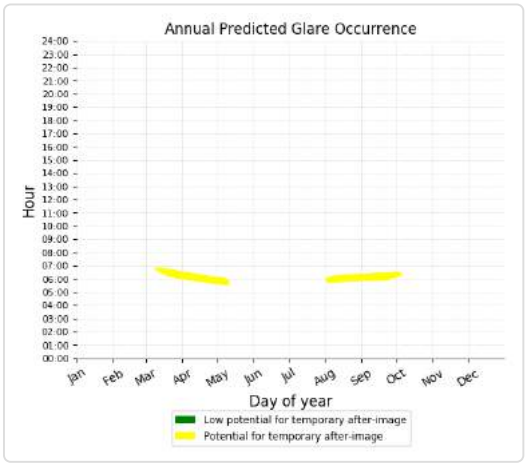


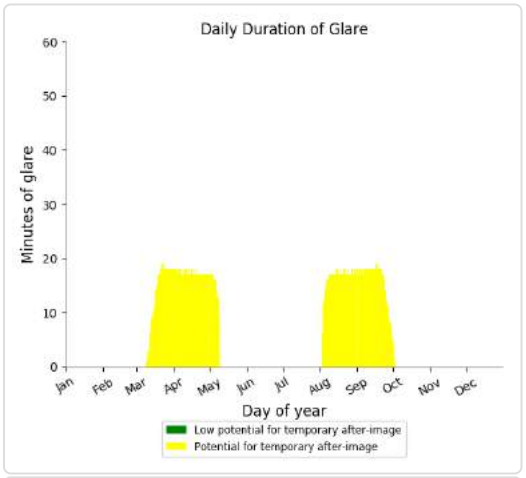


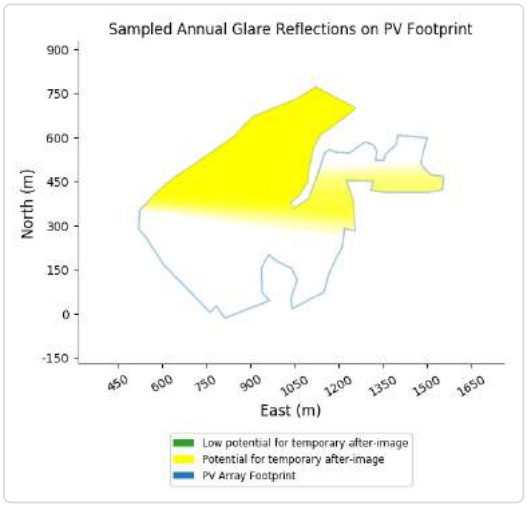
PV array 3 - OP Receptor (OP 48)

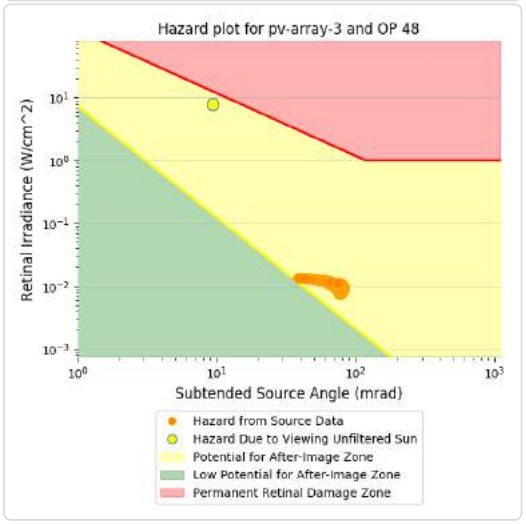
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,946 minutes of "yellow" glare with potential to cause temporary after-image.





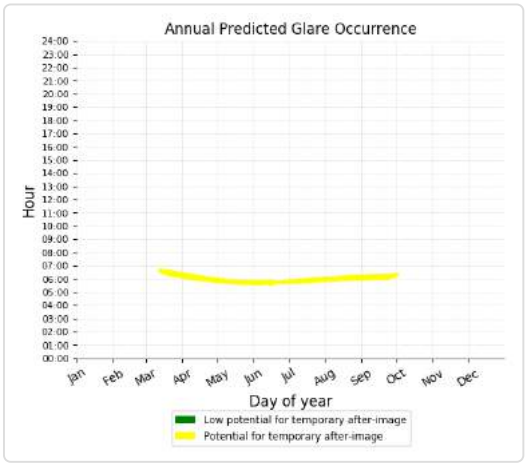


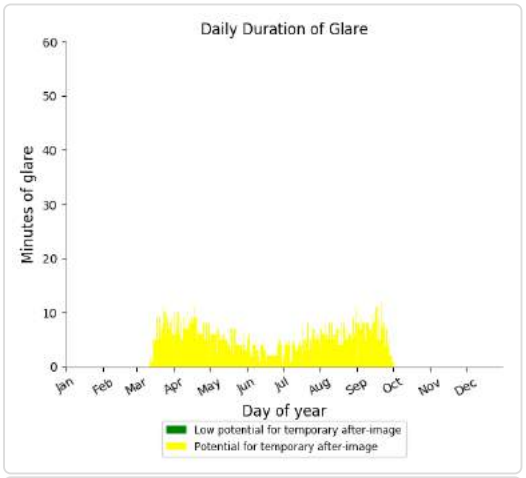


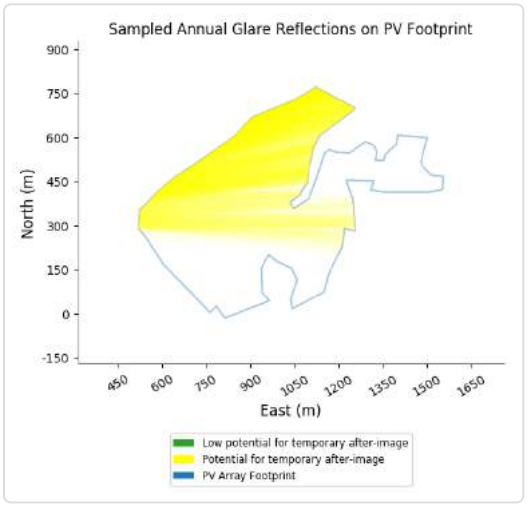
PV array 3 - OP Receptor (OP 49)

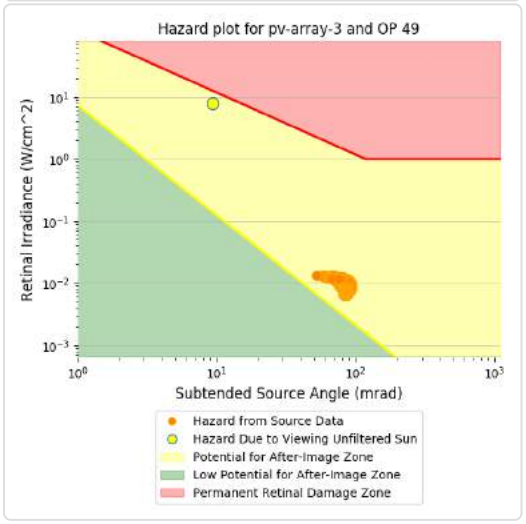
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,137 minutes of "yellow" glare with potential to cause temporary after-image.





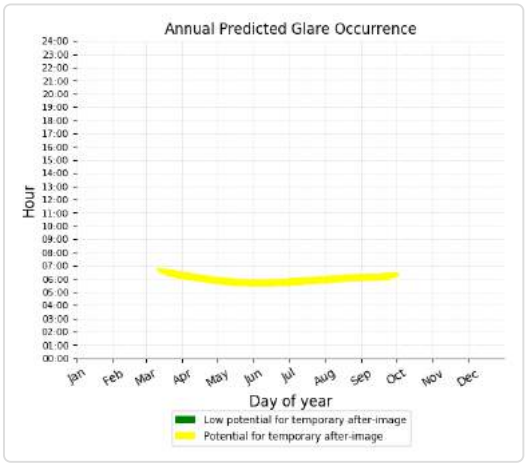


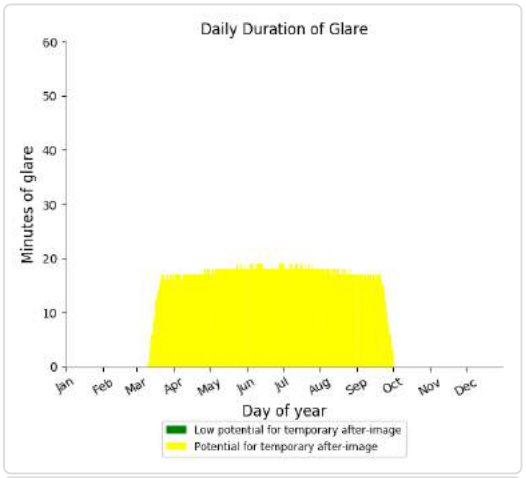


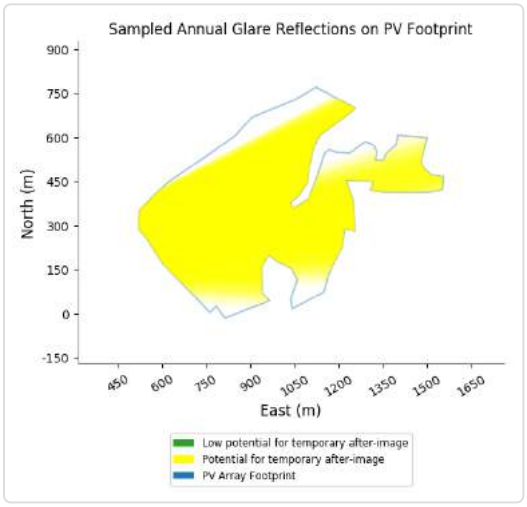
PV array 3 - OP Receptor (OP 50)

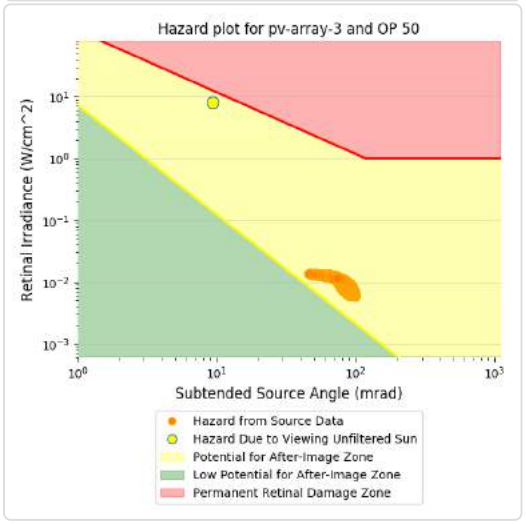
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,447 minutes of "yellow" glare with potential to cause temporary after-image.





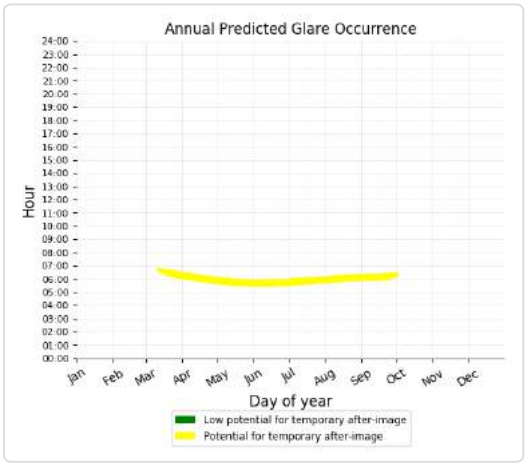


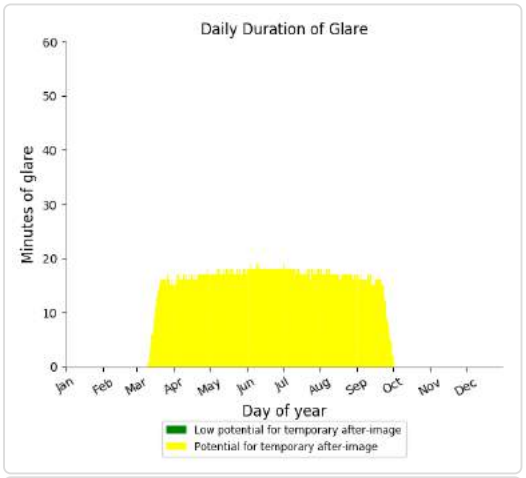


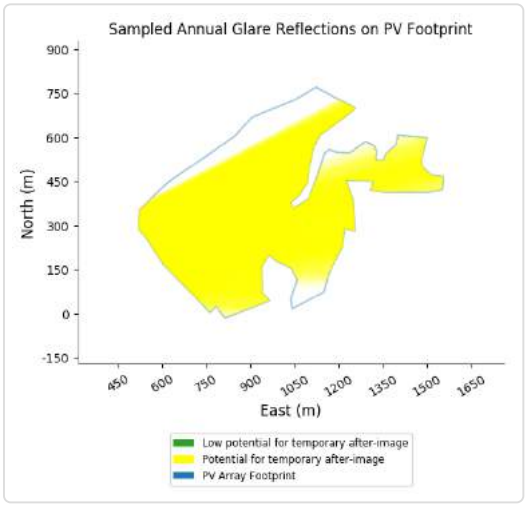
PV array 3 - OP Receptor (OP 51)

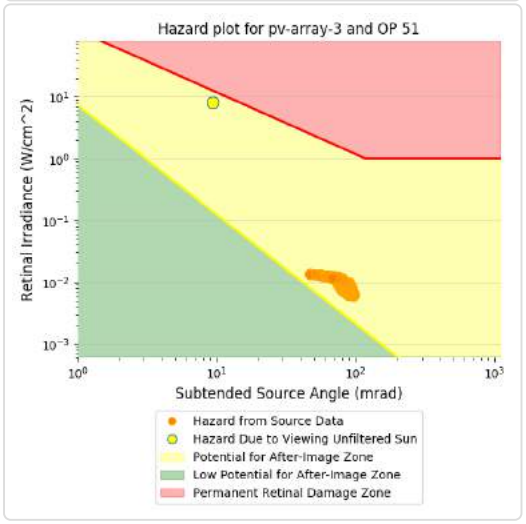
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,341 minutes of "yellow" glare with potential to cause temporary after-image.





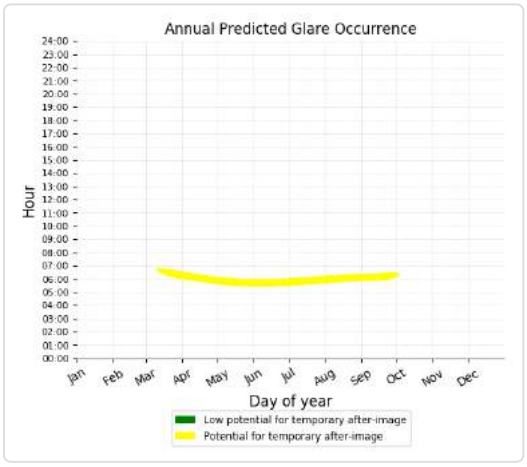


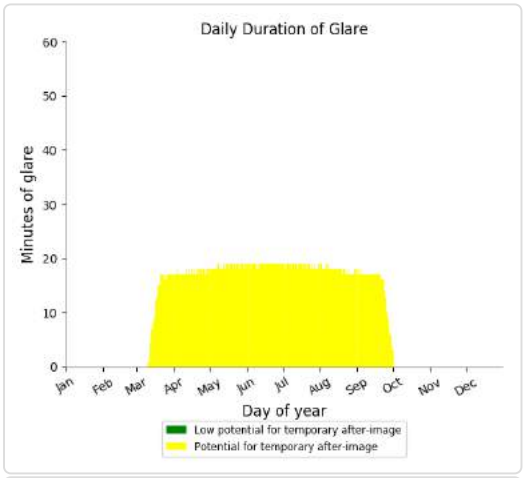


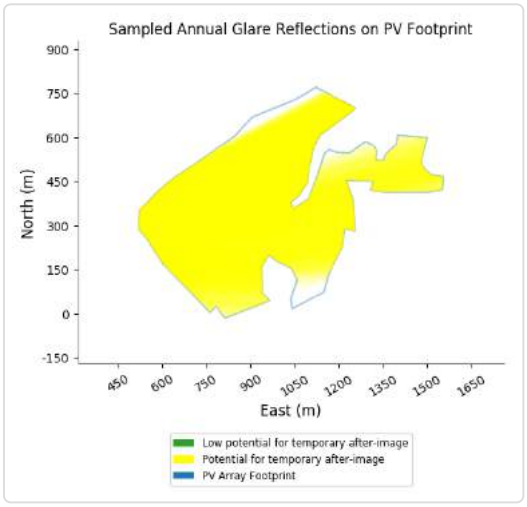
PV array 3 - OP Receptor (OP 52)

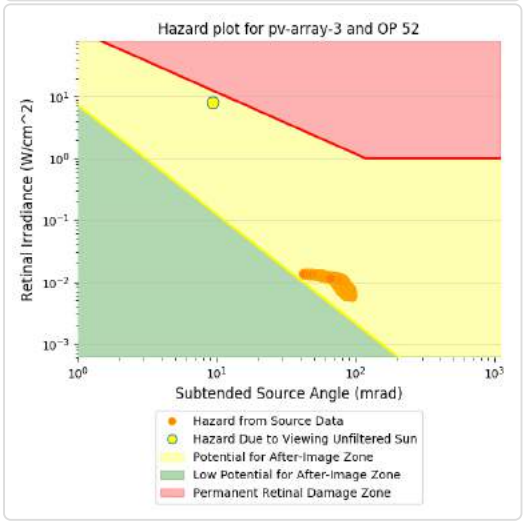
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,524 minutes of "yellow" glare with potential to cause temporary after-image.









PV array 4 potential temporary after-image

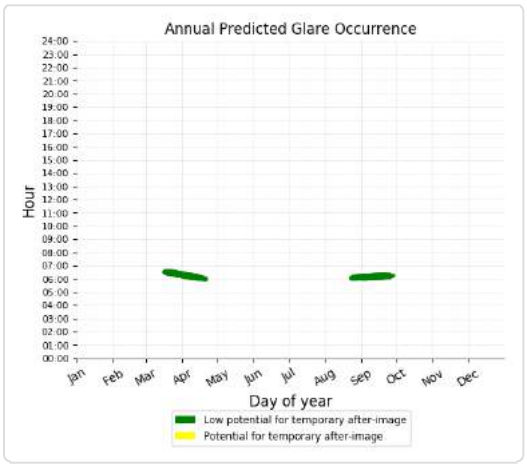
Component	Green glare (min)	Yellow glare (min)
OP: OP 1	725	0
OP: OP 2	658	0
OP: OP 3	543	0
OP: OP 4	512	0
OP: OP 5	851	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	27
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	22	1812

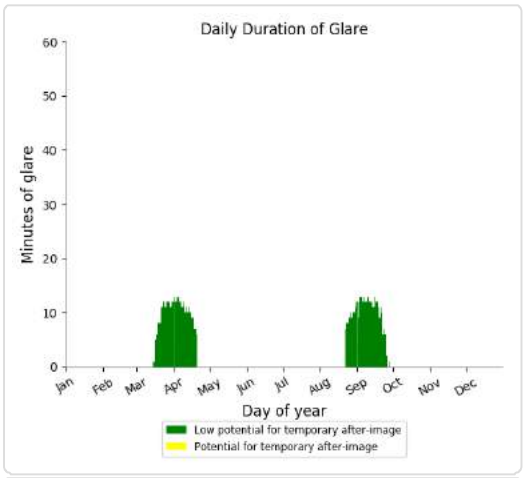
OP: OP 17	0	2029
OP: OP 18	0	1999
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	9	1194
OP: OP 24	14	1084
OP: OP 25	13	919
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	10	0
OP: OP 51	43	0
OP: OP 52	0	0

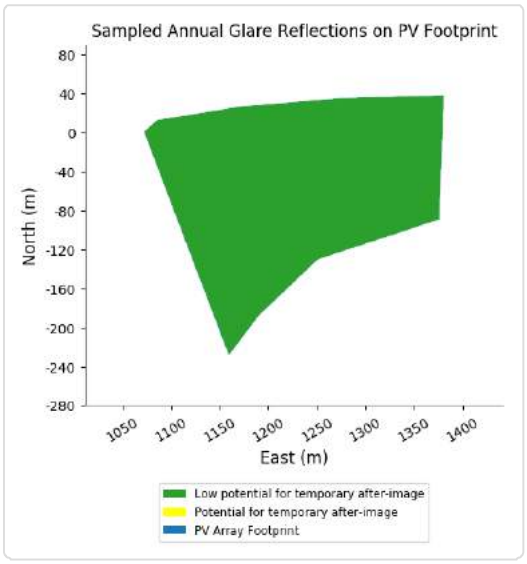
PV array 4 - OP Receptor (OP 1)

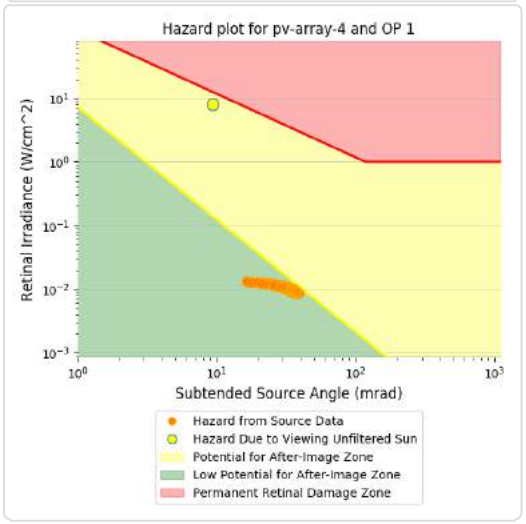
PV array is expected to produce the following glare for receptors at this location:

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





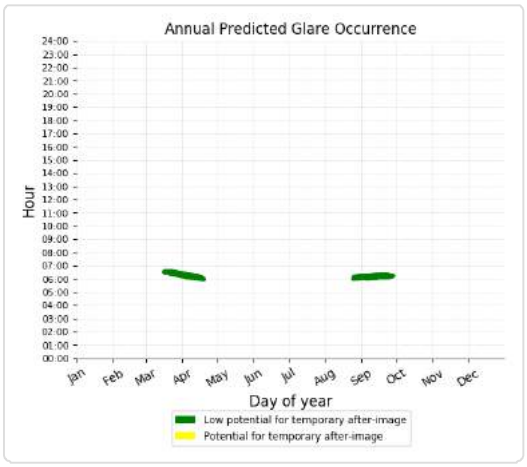


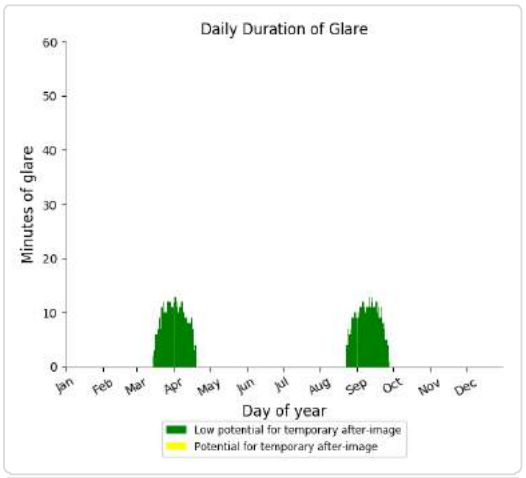


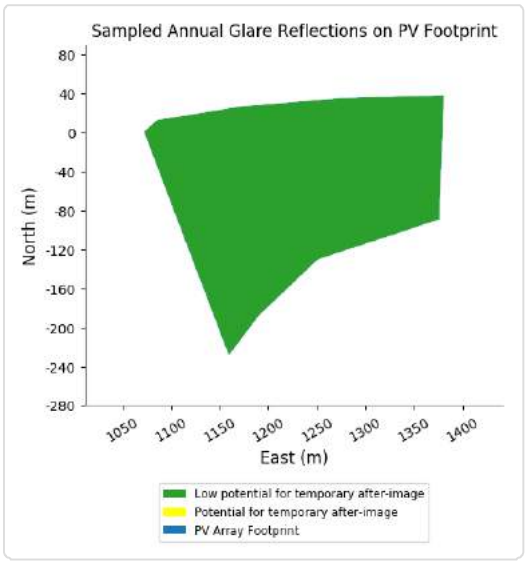
PV array 4 - OP Receptor (OP 2)

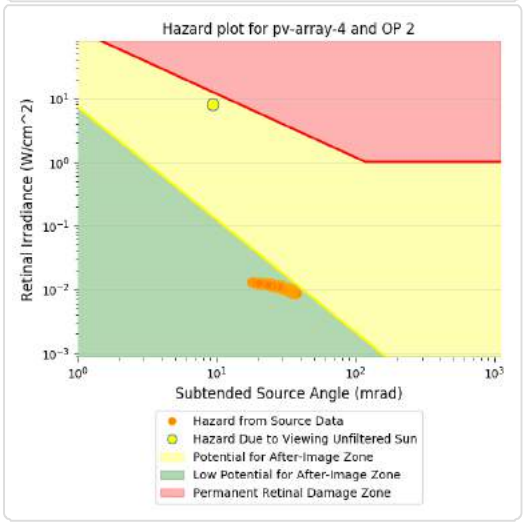
PV array is expected to produce the following glare for receptors at this location:

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





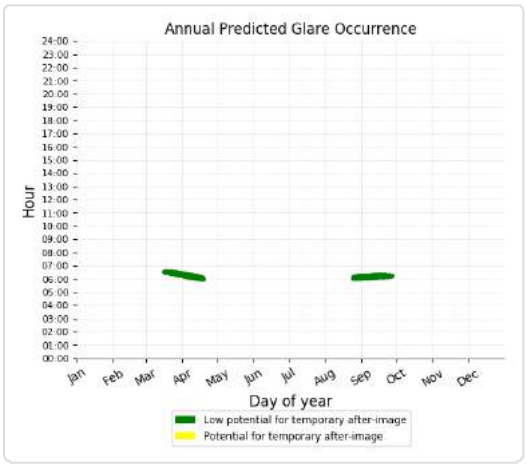


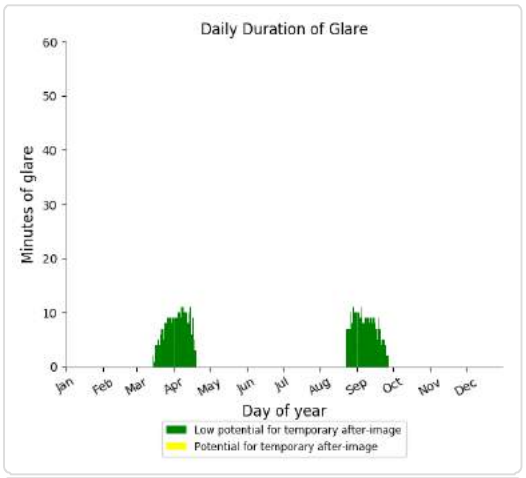


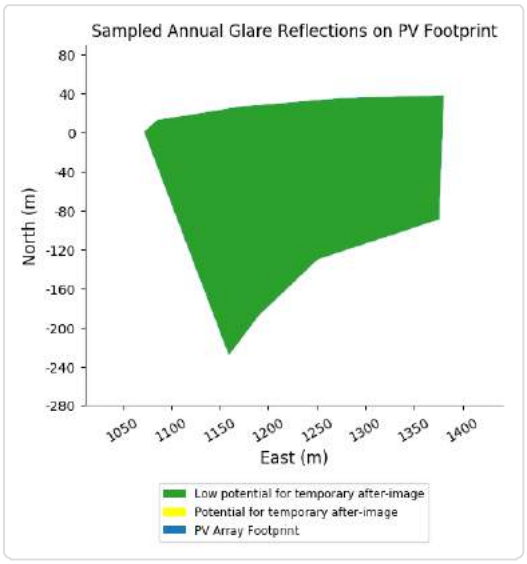
PV array 4 - OP Receptor (OP 3)

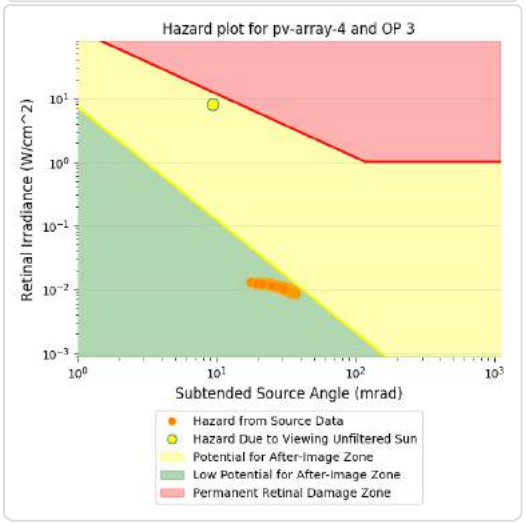
PV array is expected to produce the following glare for receptors at this location:

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





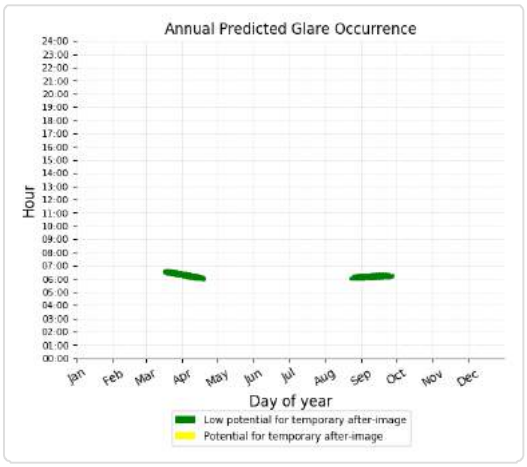


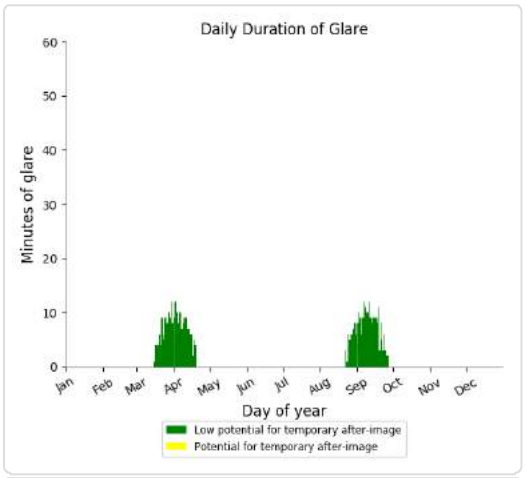


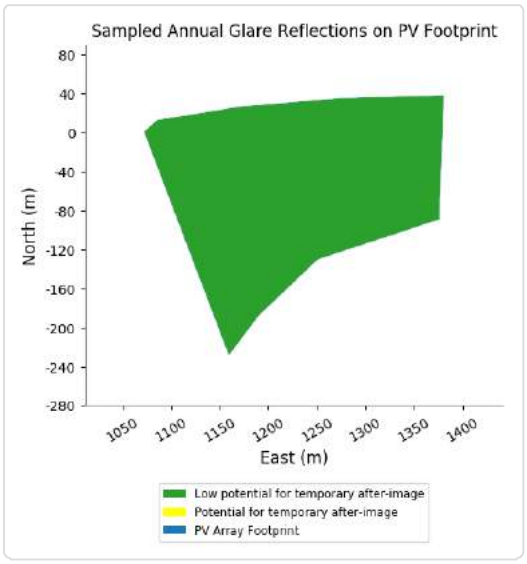
PV array 4 - OP Receptor (OP 4)

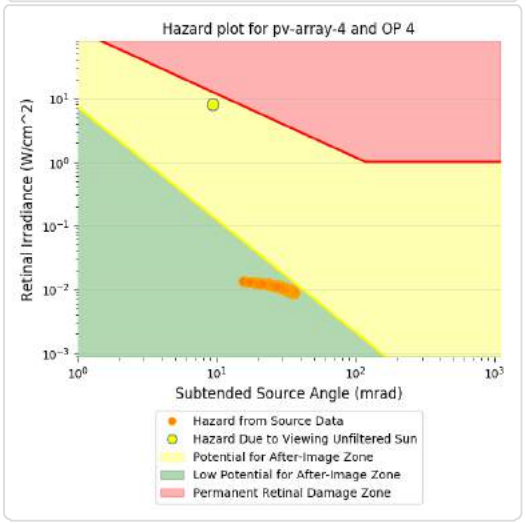
PV array is expected to produce the following glare for receptors at this location:

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





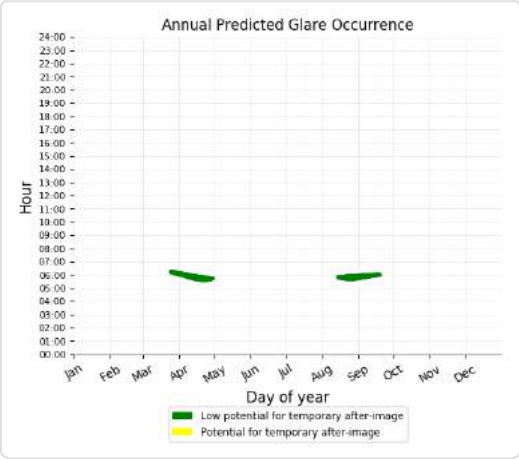


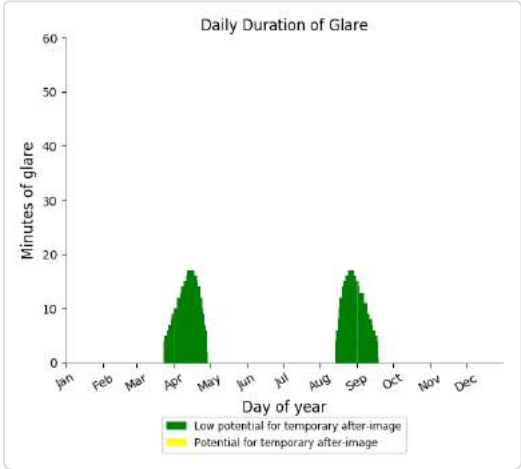


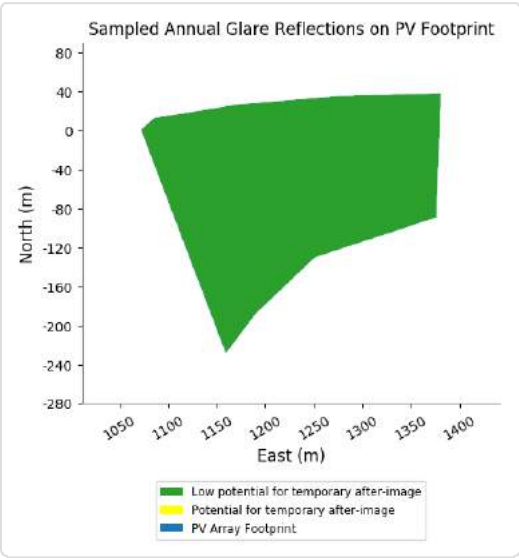
PV array 4 - OP Receptor (OP 5)

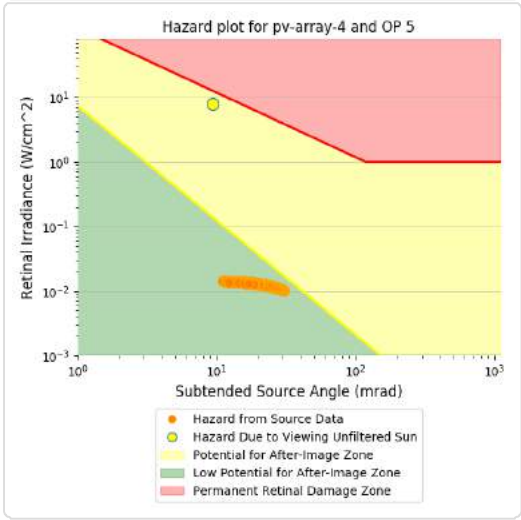
PV array is expected to produce the following glare for receptors at this location:

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









PV array 4 - OP Receptor (OP 6)

No glare found

PV array 4 - OP Receptor (OP 7)

No glare found

PV array 4 - OP Receptor (OP 8)

No glare found

PV array 4 - OP Receptor (OP 9)

No glare found

PV array 4 - OP Receptor (OP 10)

No glare found

PV array 4 - OP Receptor (OP 11)

No glare found

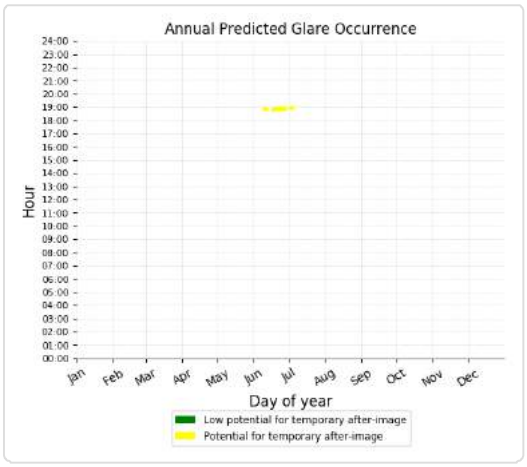
PV array 4 - OP Receptor (OP 12)

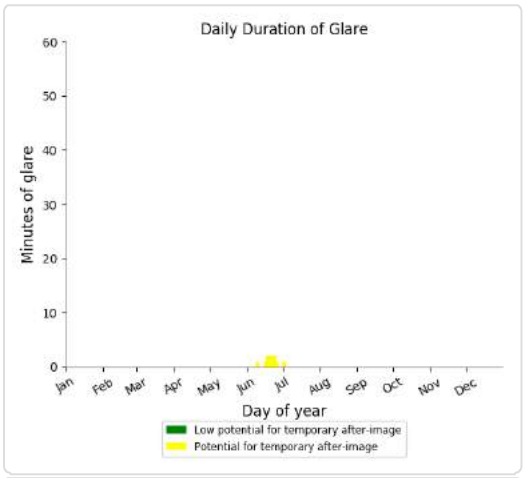
No glare found

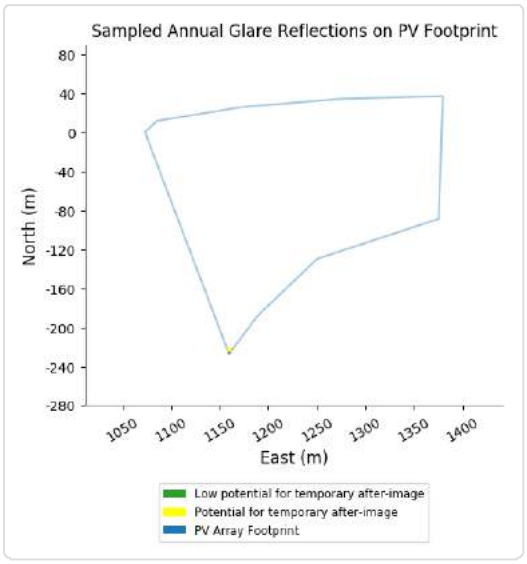
PV array 4 - OP Receptor (OP 13)

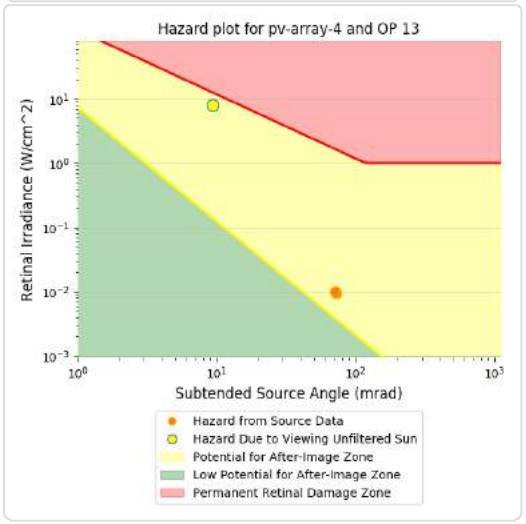
PV array is expected to produce the following glare for receptors at this location:

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









PV array 4 - OP Receptor (OP 14)

No glare found

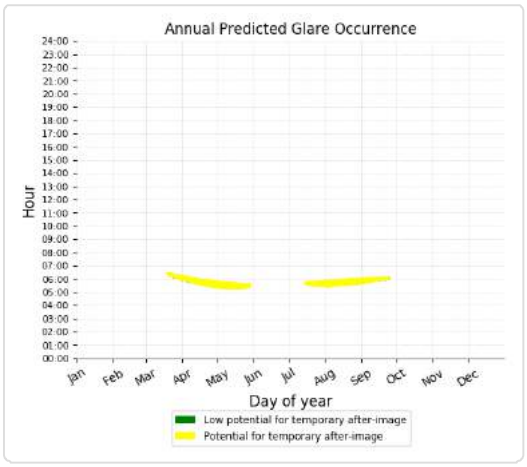
PV array 4 - OP Receptor (OP 15)

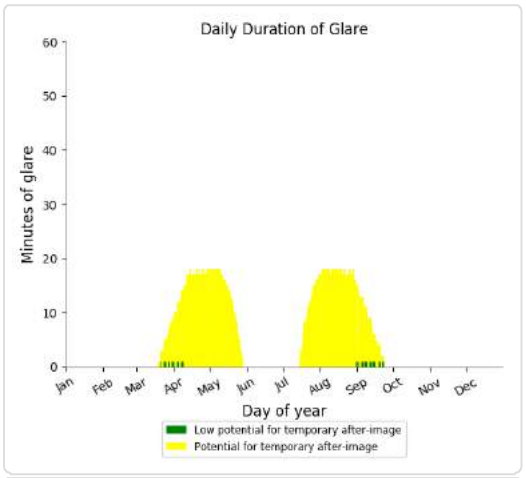
No glare found

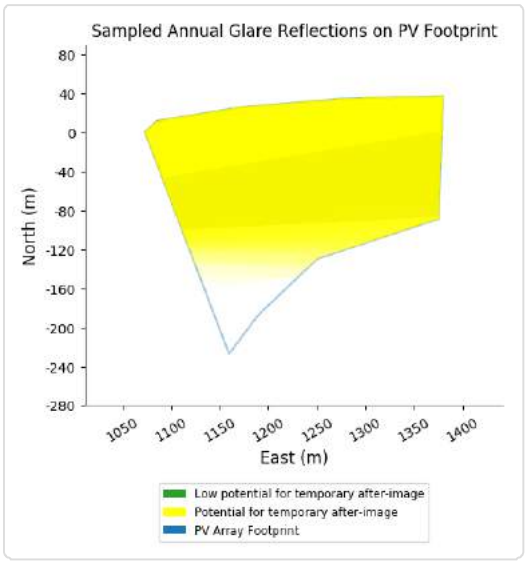
PV array 4 - OP Receptor (OP 16)

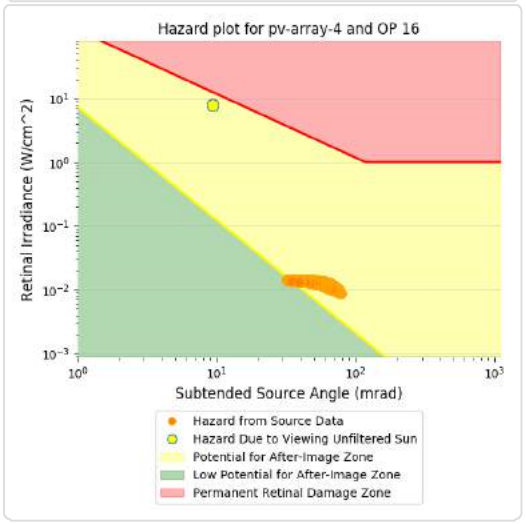
PV array is expected to produce the following glare for receptors at this location:

- 22 minutes of "green" glare with low potential to cause temporary after-image.
- 1,812 minutes of "yellow" glare with potential to cause temporary after-image.





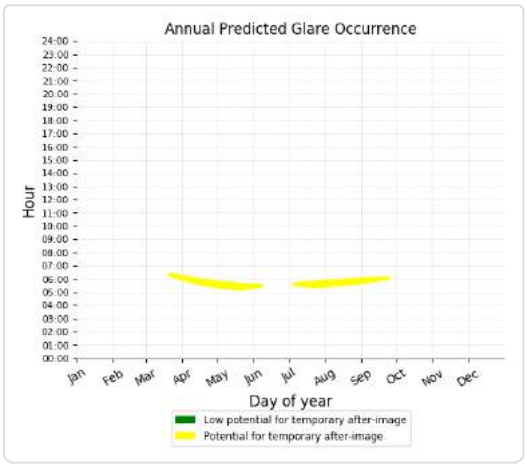


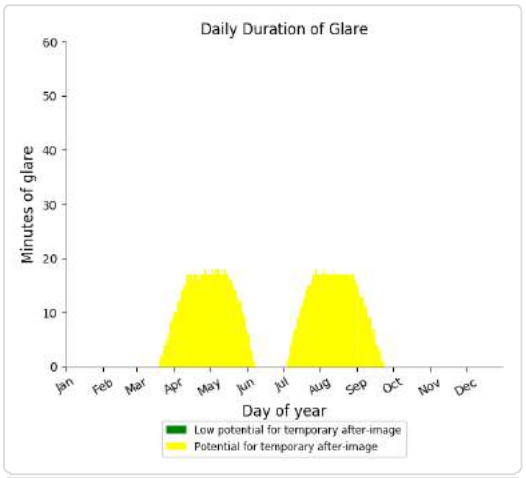


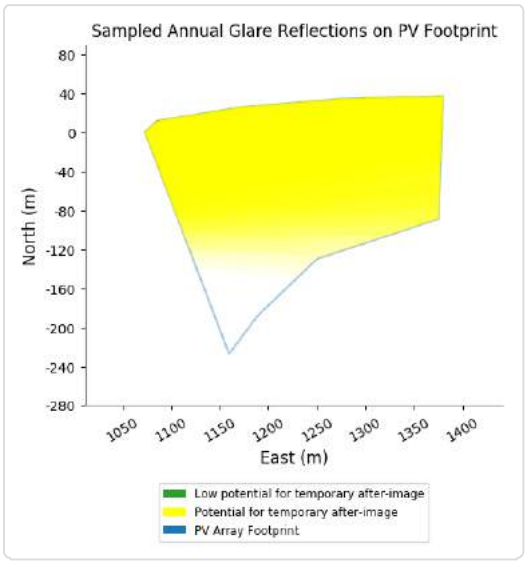
PV array 4 - OP Receptor (OP 17)

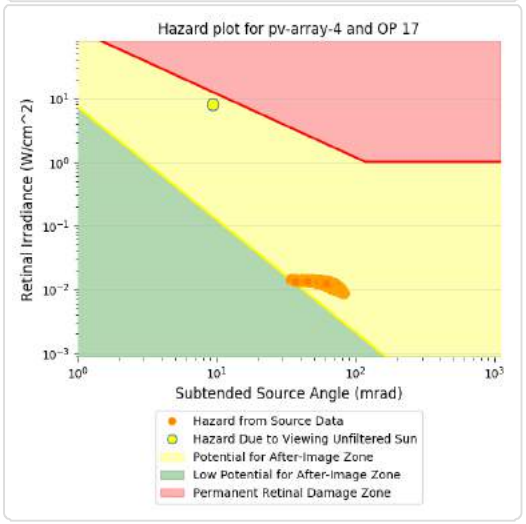
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,029 minutes of "yellow" glare with potential to cause temporary after-image.





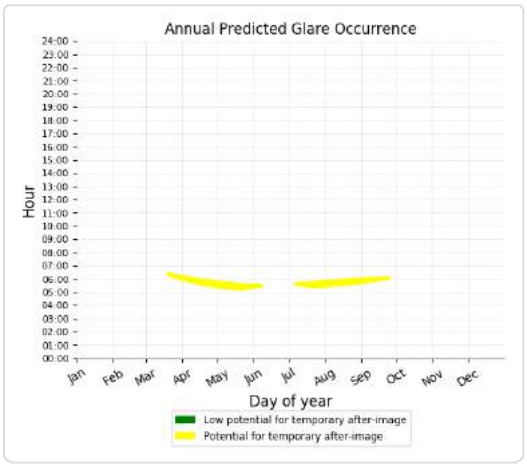


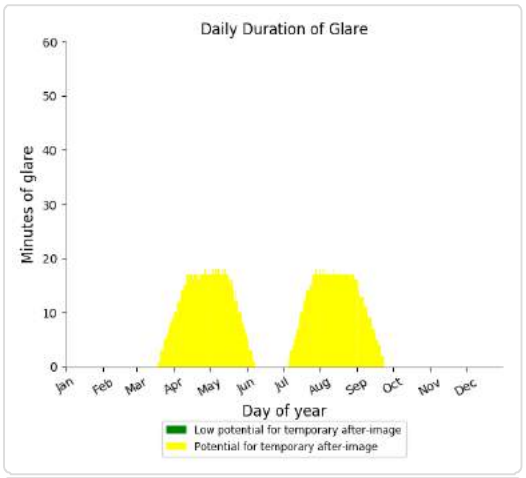


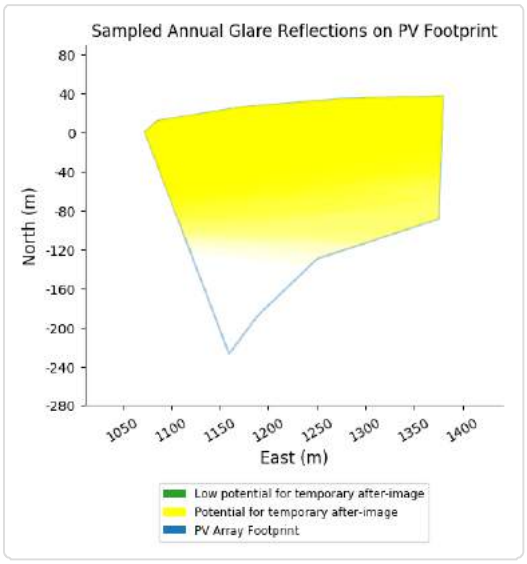
PV array 4 - OP Receptor (OP 18)

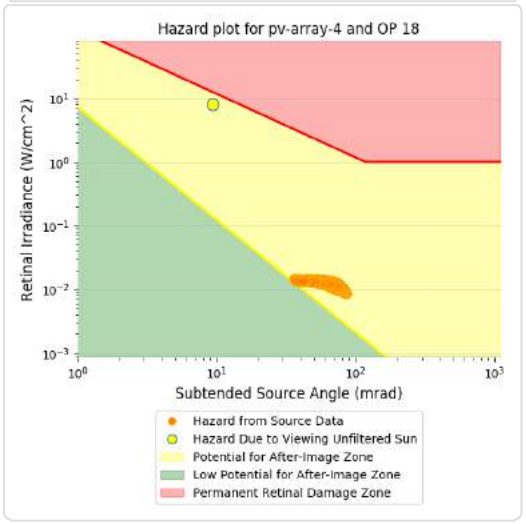
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,999 minutes of "yellow" glare with potential to cause temporary after-image.









PV array 4 - OP Receptor (OP 19)

No glare found

PV array 4 - OP Receptor (OP 20)

No glare found

PV array 4 - OP Receptor (OP 21)

No glare found

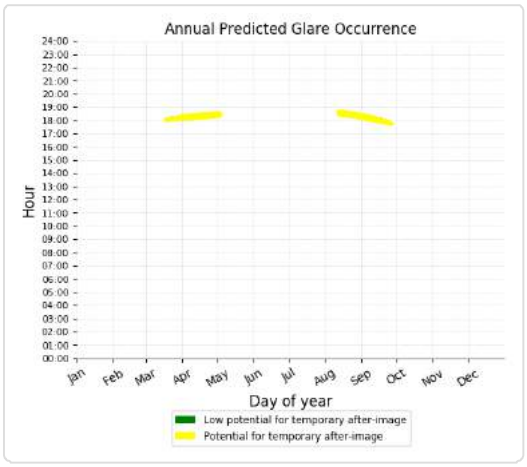
PV array 4 - OP Receptor (OP 22)

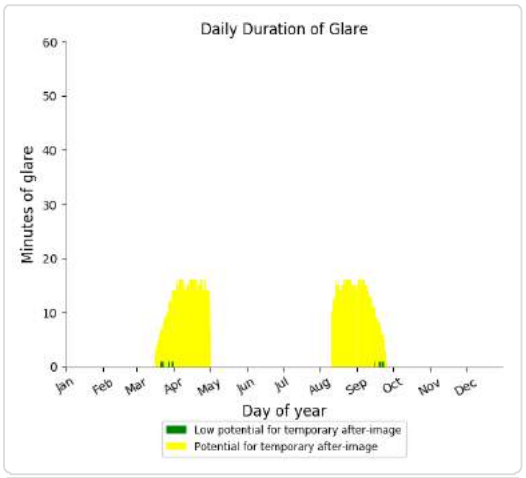
No glare found

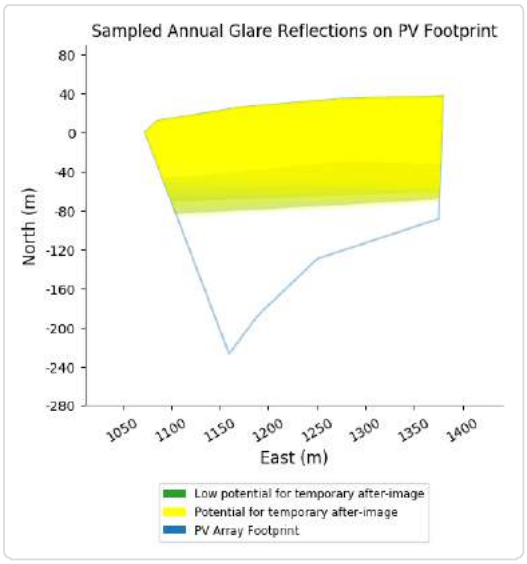
PV array 4 - OP Receptor (OP 23)

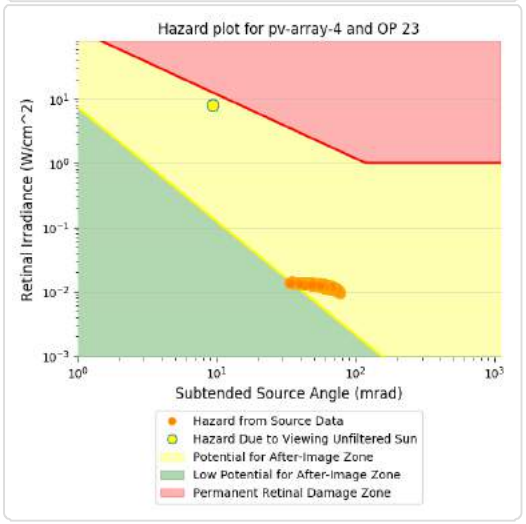
PV array is expected to produce the following glare for receptors at this location:

- 9 minutes of "green" glare with low potential to cause temporary after-image.
- 1,194 minutes of "yellow" glare with potential to cause temporary after-image.





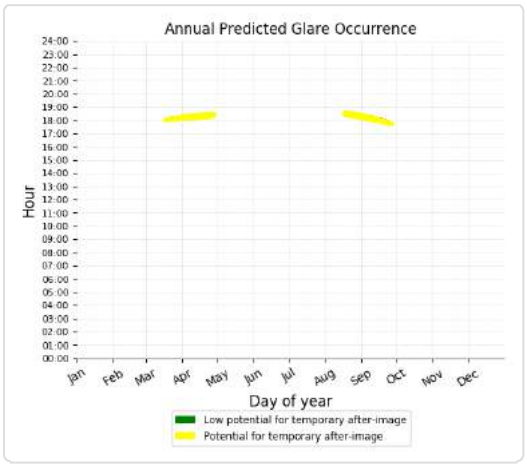


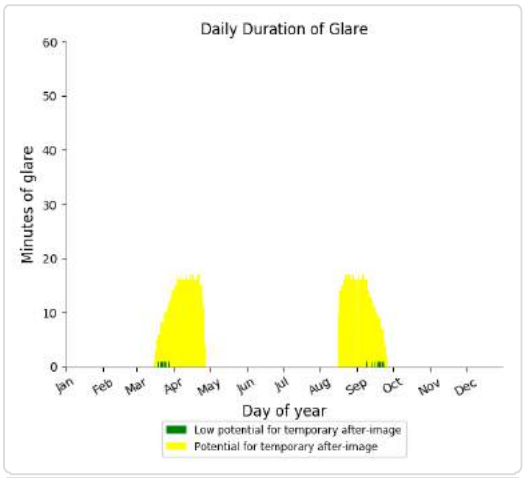


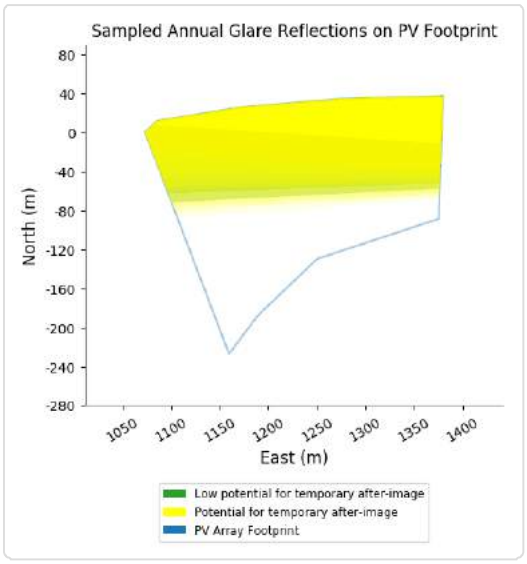
PV array 4 - OP Receptor (OP 24)

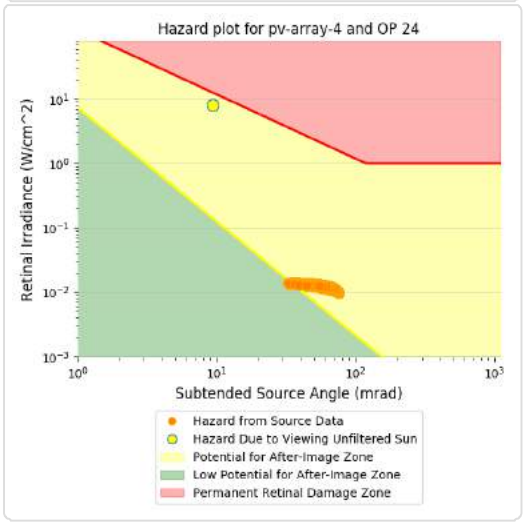
PV array is expected to produce the following glare for receptors at this location:

- 14 minutes of "green" glare with low potential to cause temporary after-image.
- 1,084 minutes of "yellow" glare with potential to cause temporary after-image.





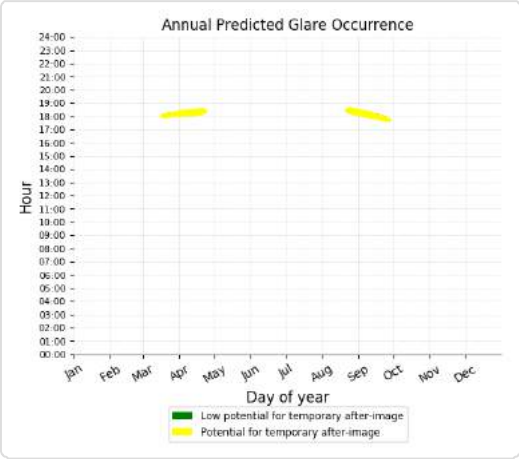


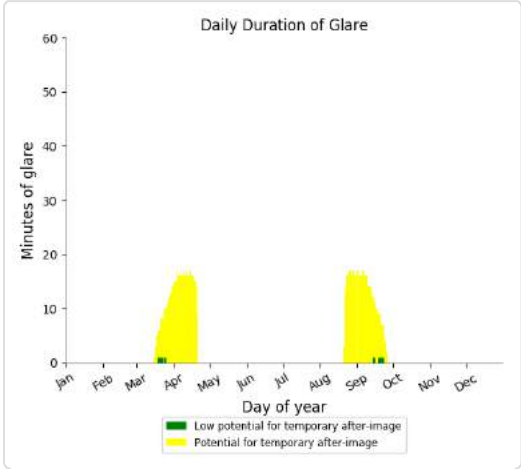


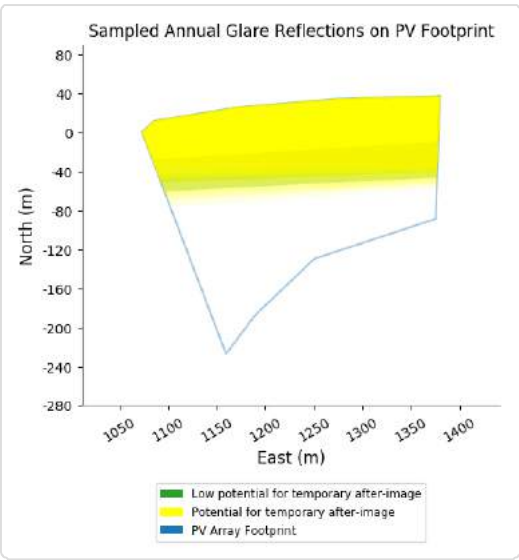
PV array 4 - OP Receptor (OP 25)

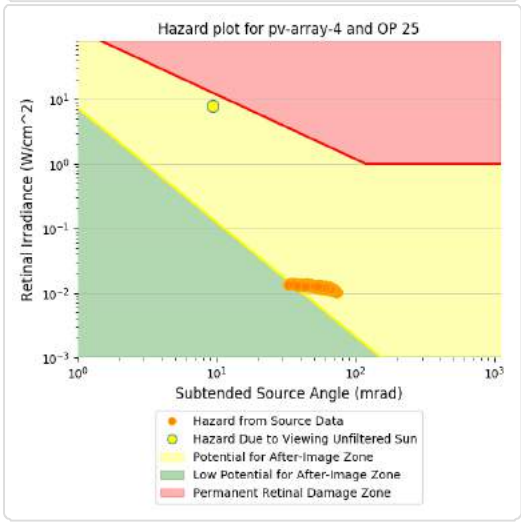
PV array is expected to produce the following glare for receptors at this location:

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









PV array 4 - OP Receptor (OP 26)

No glare found

PV array 4 - OP Receptor (OP 27)

No glare found

PV array 4 - OP Receptor (OP 28)

No glare found

PV array 4 - OP Receptor (OP 29)

No glare found

PV array 4 - OP Receptor (OP 30)

No glare found

PV array 4 - OP Receptor (OP 31)

No glare found

PV array 4 - OP Receptor (OP 32)

No glare found

PV array 4 - OP Receptor (OP 33)
No glare found

PV array 4 - OP Receptor (OP 34)
No glare found

PV array 4 - OP Receptor (OP 35)
No glare found

PV array 4 - OP Receptor (OP 36)
No glare found

PV array 4 - OP Receptor (OP 37)
No glare found

PV array 4 - OP Receptor (OP 38)
No glare found

PV array 4 - OP Receptor (OP 39)
No glare found

PV array 4 - OP Receptor (OP 40)
No glare found

PV array 4 - OP Receptor (OP 41)
No glare found

PV array 4 - OP Receptor (OP 42)
No glare found

PV array 4 - OP Receptor (OP 43)
No glare found

PV array 4 - OP Receptor (OP 44)
No glare found

PV array 4 - OP Receptor (OP 45)
No glare found

PV array 4 - OP Receptor (OP 46)
No glare found

PV array 4 - OP Receptor (OP 47)
No glare found

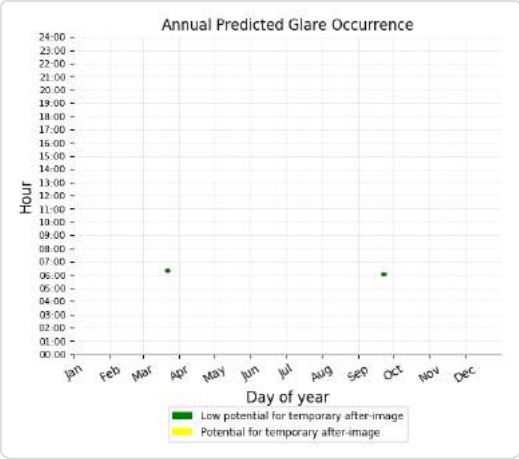
PV array 4 - OP Receptor (OP 48)
No glare found

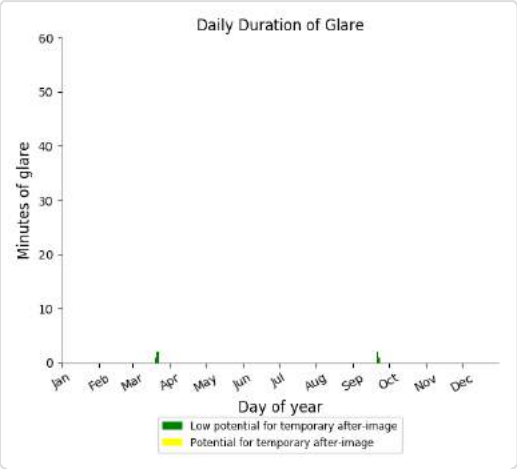
PV array 4 - OP Receptor (OP 49)
No glare found

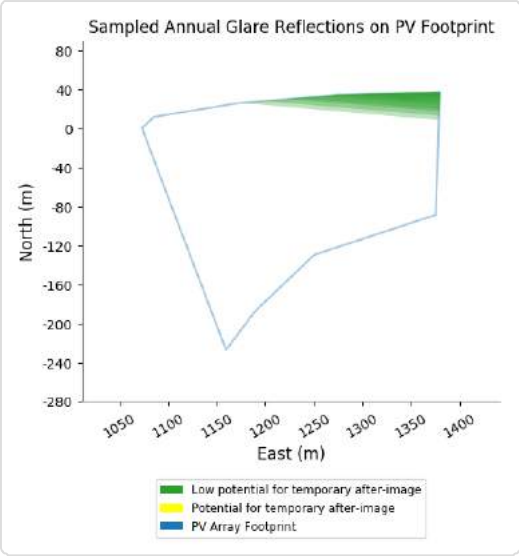
PV array 4 - OP Receptor (OP 50)

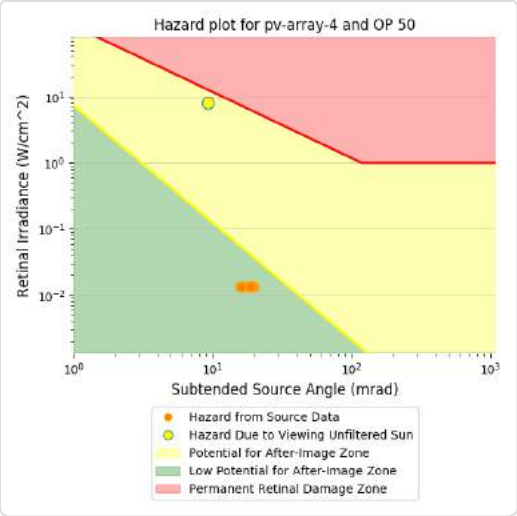
PV array is expected to produce the following glare for receptors at this location:

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





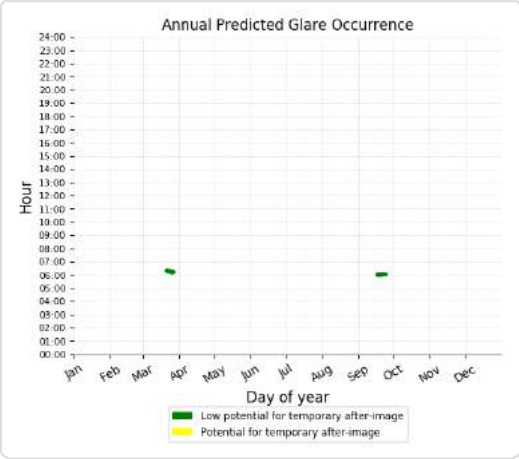


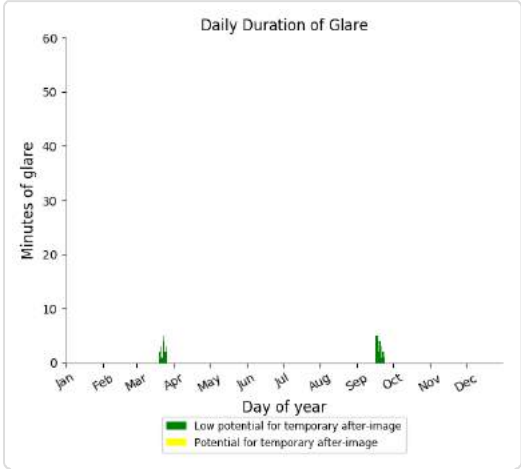


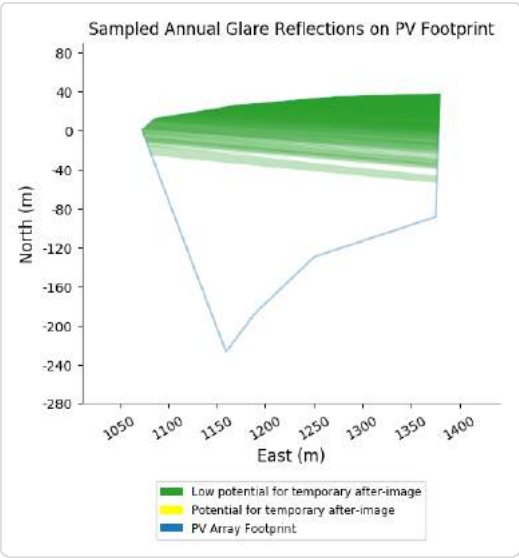
PV array 4 - OP Receptor (OP 51)

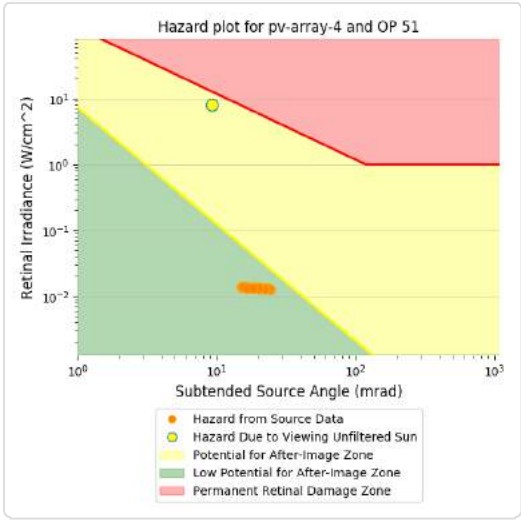
PV array is expected to produce the following glare for receptors at this location:

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









PV array 4 - OP Receptor (OP 52)

No glare found

PV array 5 potential temporary after-image

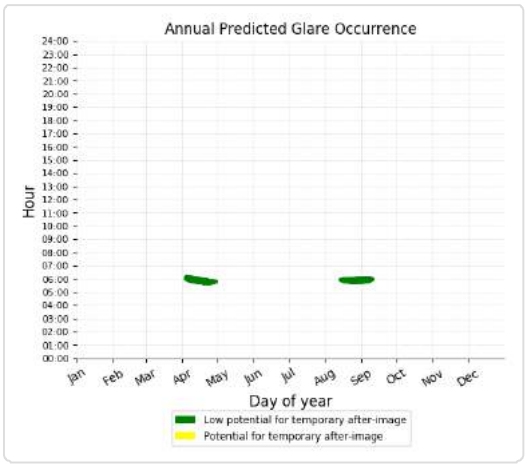
Component	Green glare (min)	Yellow glare (min)
OP: OP 1	843	0
OP: OP 2	822	0
OP: OP 3	826	0
OP: OP 4	834	0
OP: OP 5	978	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0

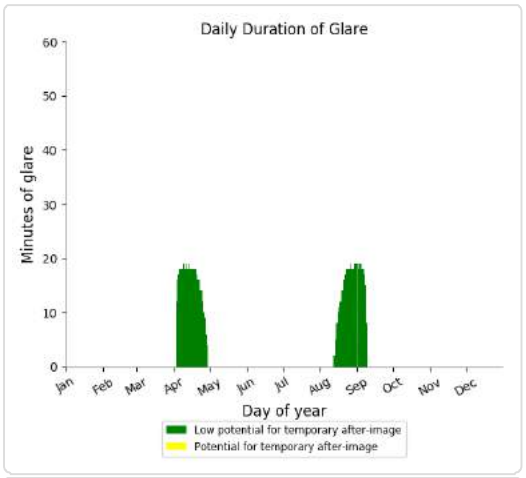
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	298	1564
OP: OP 17	100	1934
OP: OP 18	32	2049
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	2136
OP: OP 22	0	2096
OP: OP 23	6	3355
OP: OP 24	18	3662
OP: OP 25	34	3919
OP: OP 26	0	3760
OP: OP 27	0	2388
OP: OP 28	0	1967
OP: OP 29	0	1782
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	86	0
OP: OP 47	103	0
OP: OP 48	0	0
OP: OP 49	51	0
OP: OP 50	435	0
OP: OP 51	544	0
OP: OP 52	519	0

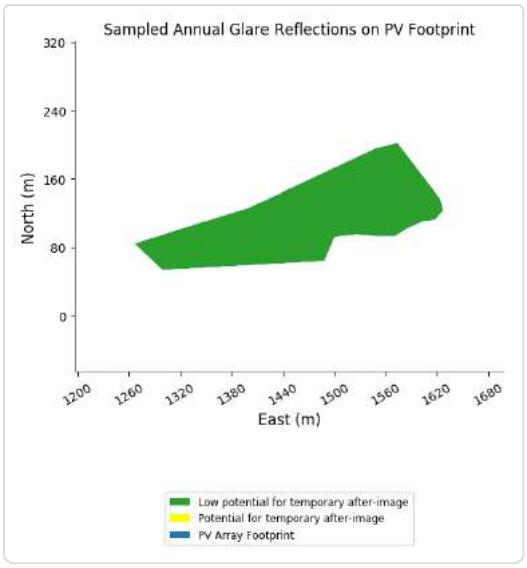
PV array 5 - OP Receptor (OP 1)

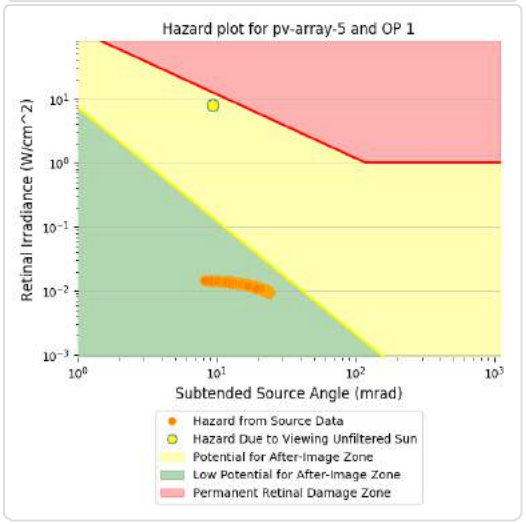
PV array is expected to produce the following glare for receptors at this location:

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





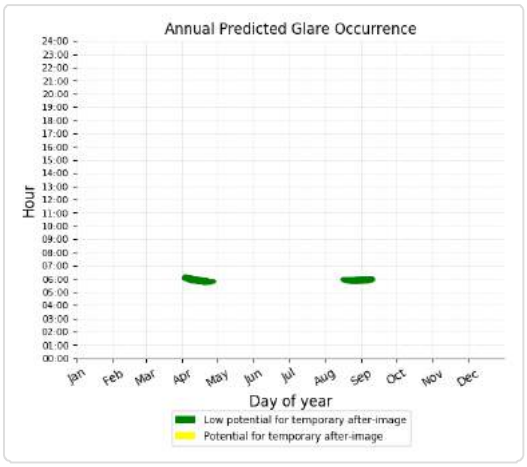


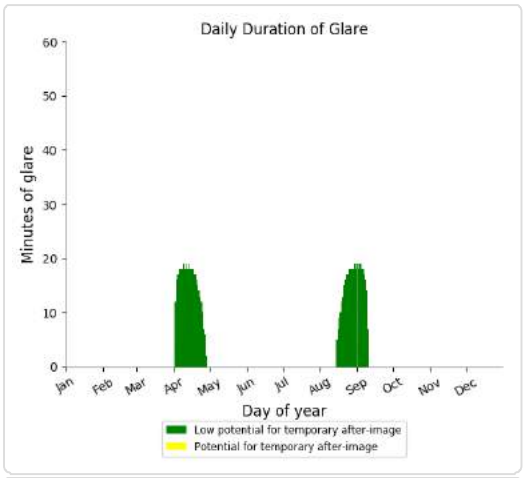


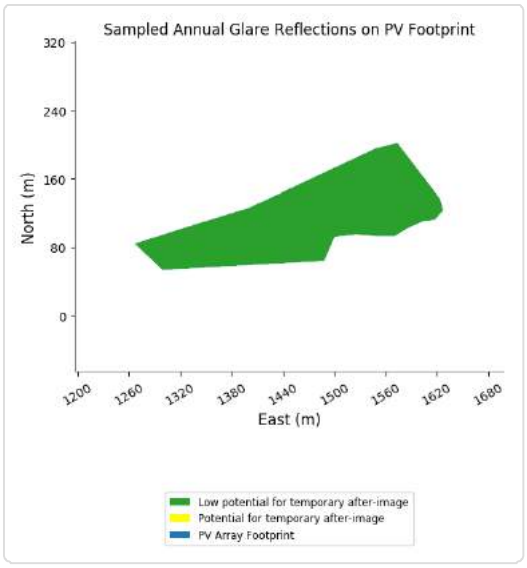
PV array 5 - OP Receptor (OP 2)

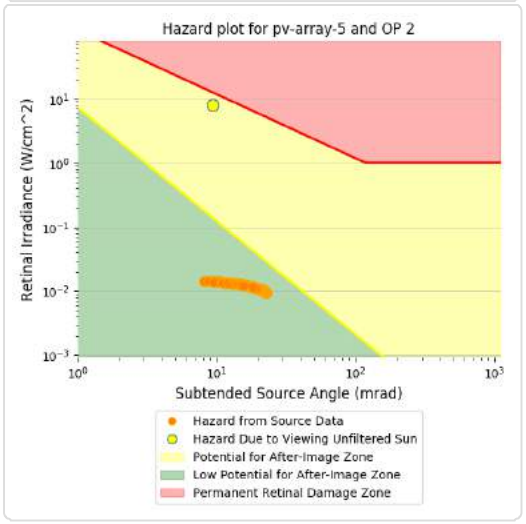
PV array is expected to produce the following glare for receptors at this location:

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





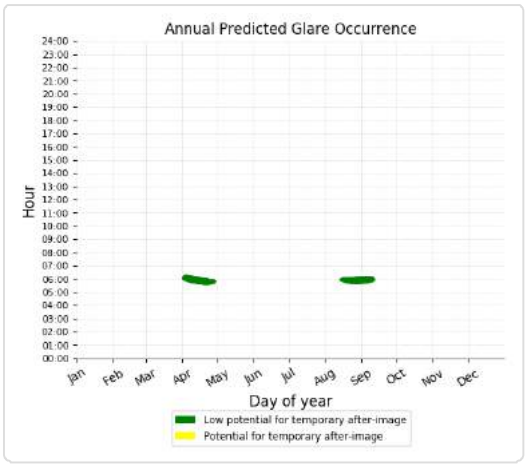


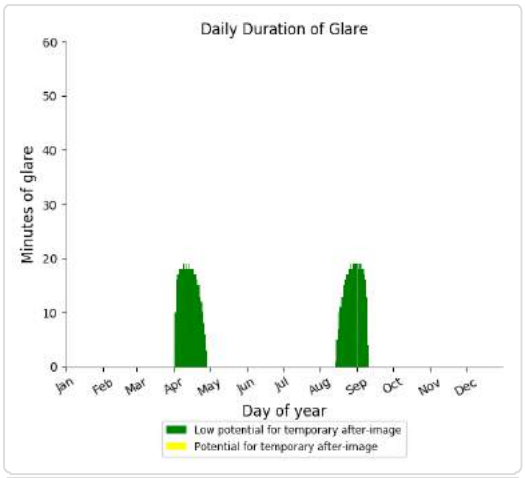


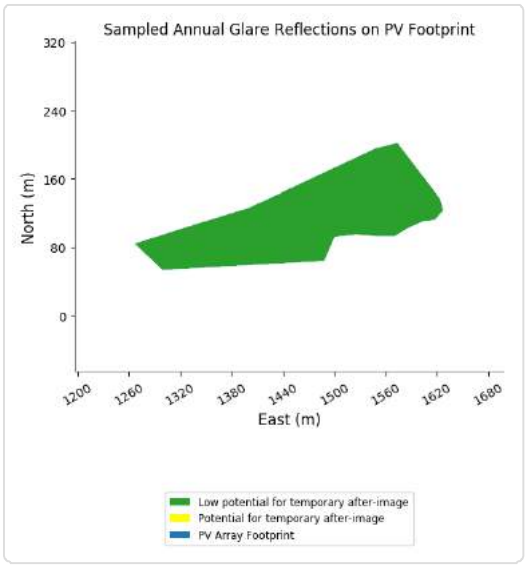
PV array 5 - OP Receptor (OP 3)

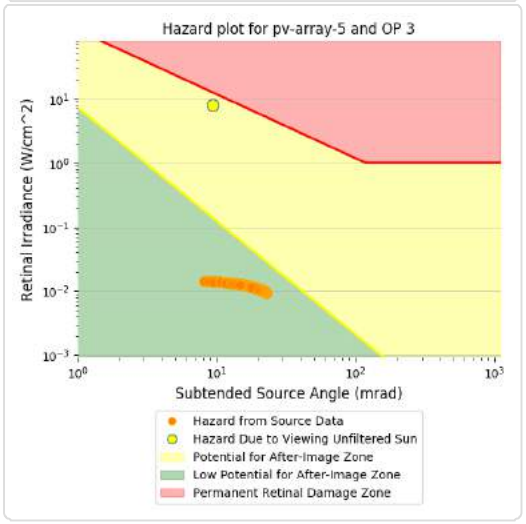
PV array is expected to produce the following glare for receptors at this location:

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





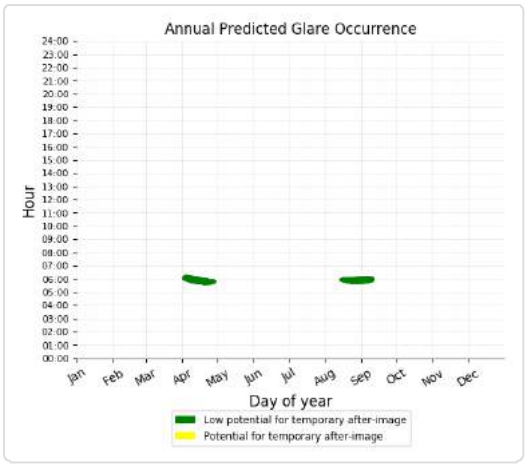


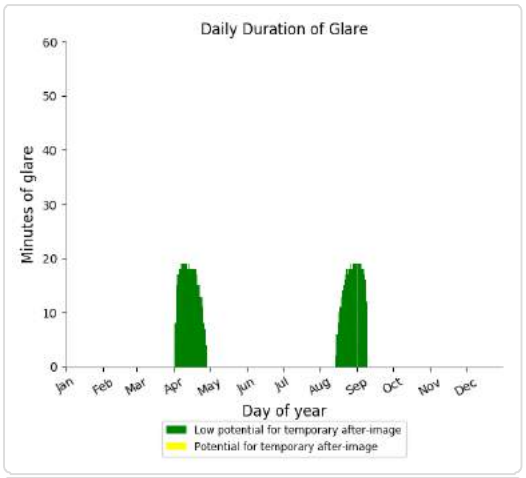


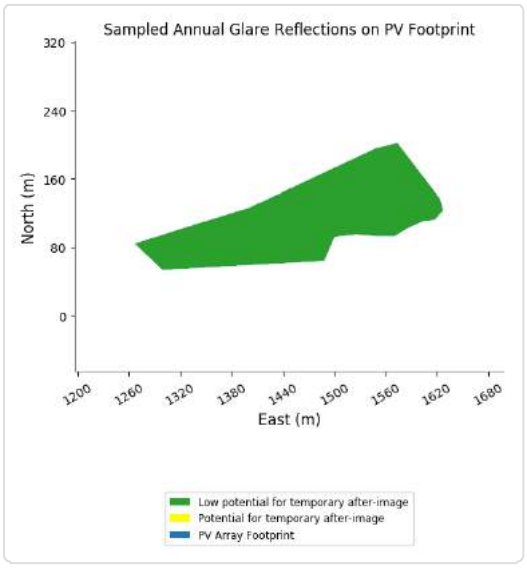
PV array 5 - OP Receptor (OP 4)

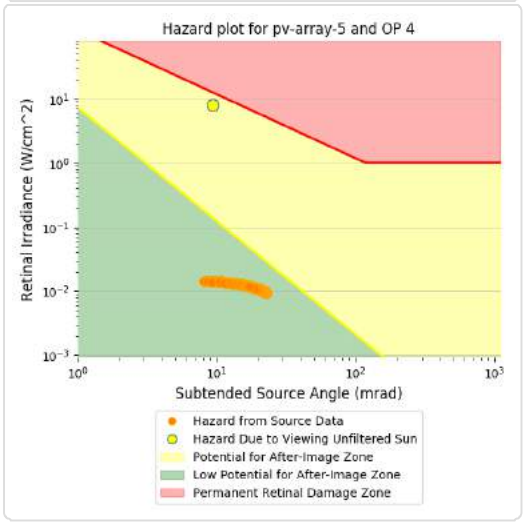
PV array is expected to produce the following glare for receptors at this location:

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





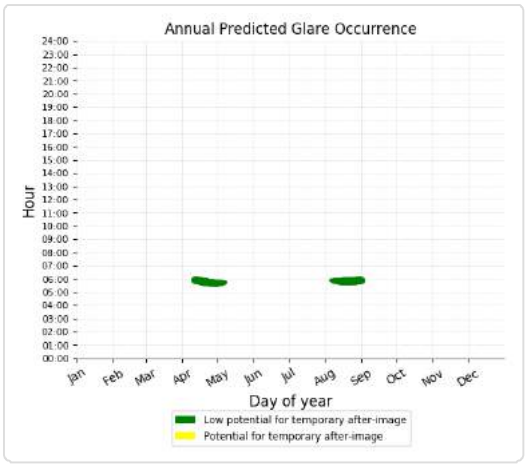


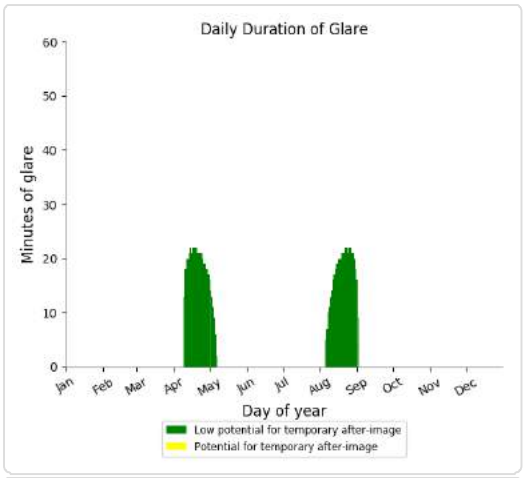


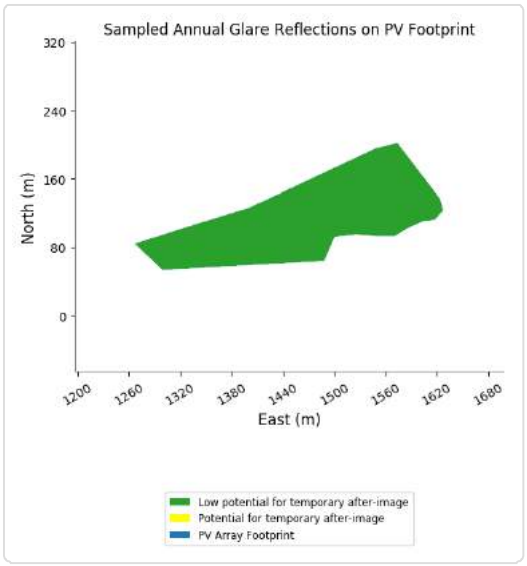
PV array 5 - OP Receptor (OP 5)

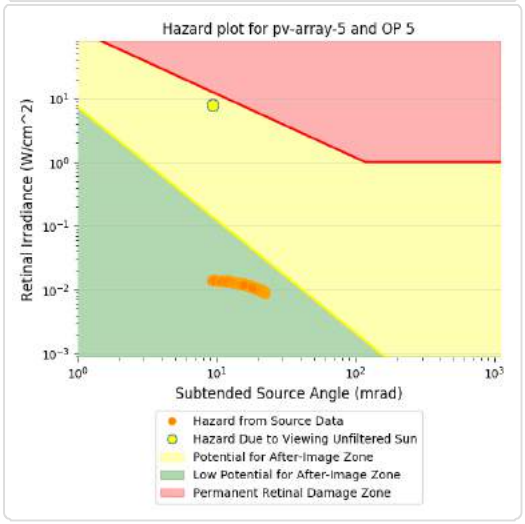
PV array is expected to produce the following glare for receptors at this location:

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









PV array 5 - OP Receptor (OP 6)

No glare found

PV array 5 - OP Receptor (OP 7)

No glare found

PV array 5 - OP Receptor (OP 8)

No glare found

PV array 5 - OP Receptor (OP 9)

No glare found

PV array 5 - OP Receptor (OP 10)

No glare found

PV array 5 - OP Receptor (OP 11)

No glare found

PV array 5 - OP Receptor (OP 12)

No glare found

PV array 5 - OP Receptor (OP 13)

No glare found

PV array 5 - OP Receptor (OP 14)

No glare found

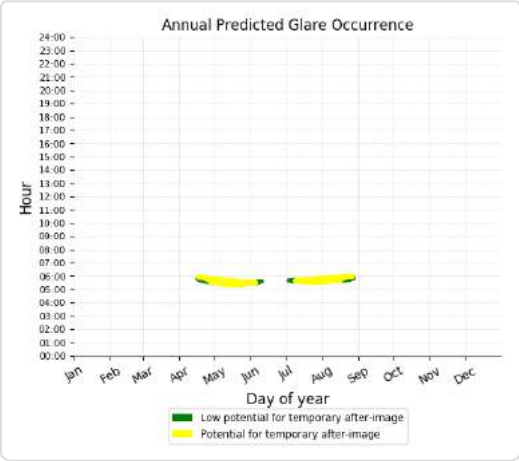
PV array 5 - OP Receptor (OP 15)

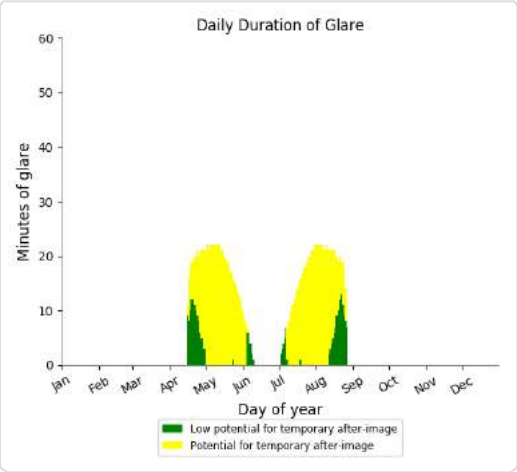
No glare found

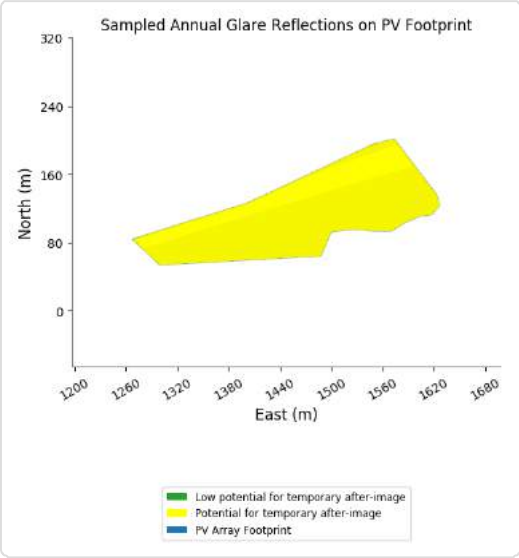
PV array 5 - OP Receptor (OP 16)

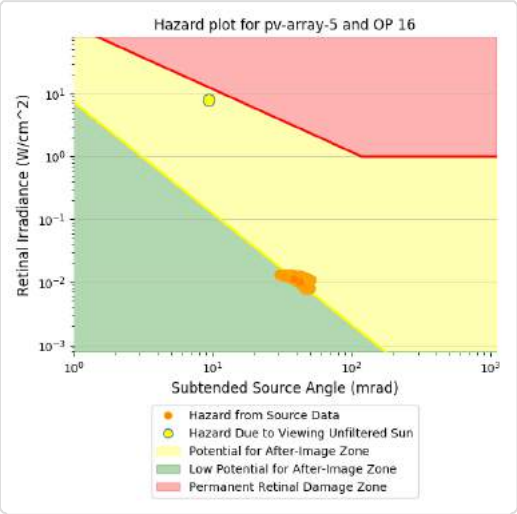
PV array is expected to produce the following glare for receptors at this location:

- 298 minutes of "green" glare with low potential to cause temporary after-image.
- 1,564 minutes of "yellow" glare with potential to cause temporary after-image.





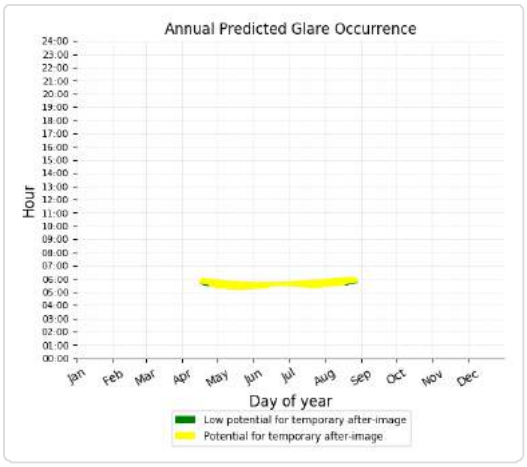


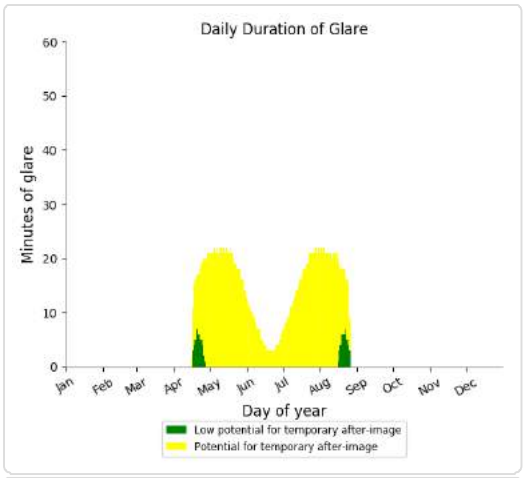


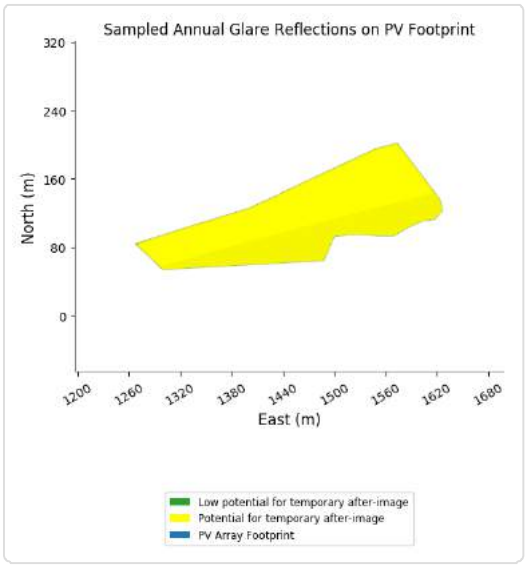
PV array 5 - OP Receptor (OP 17)

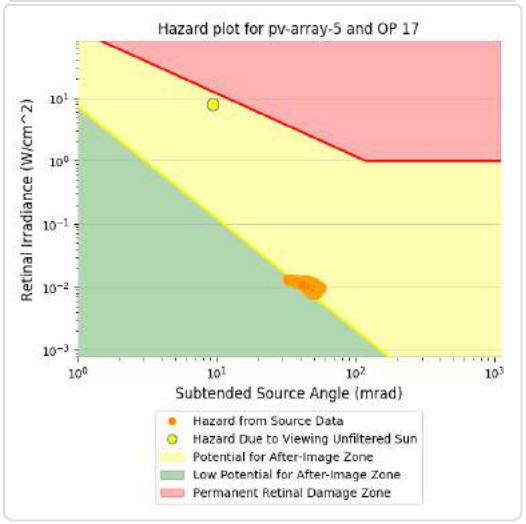
PV array is expected to produce the following glare for receptors at this location:

- 100 minutes of "green" glare with low potential to cause temporary after-image.
- 1,934 minutes of "yellow" glare with potential to cause temporary after-image.





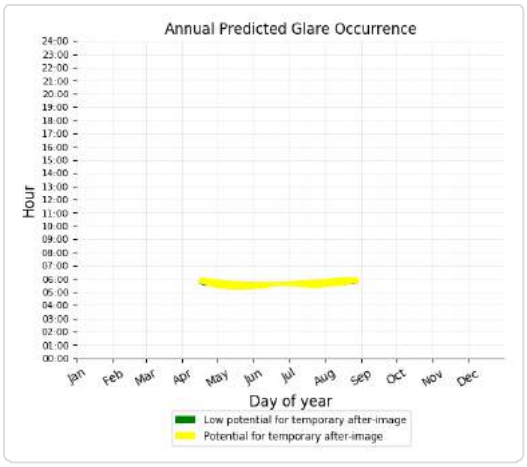


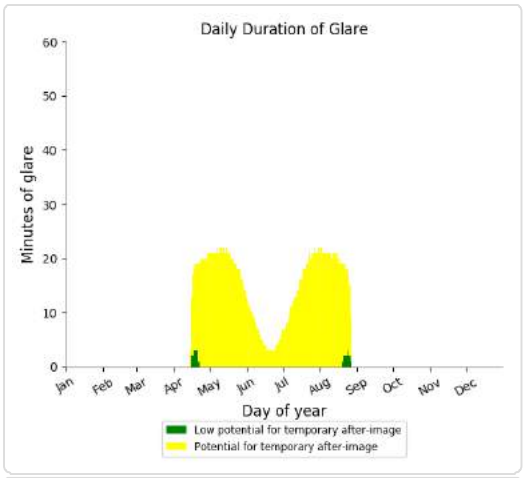


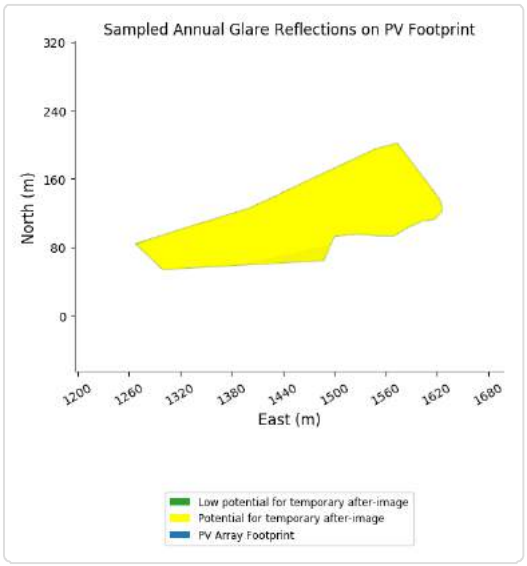
PV array 5 - OP Receptor (OP 18)

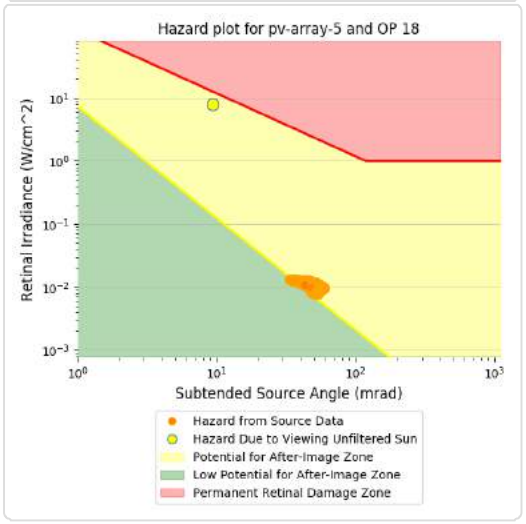
PV array is expected to produce the following glare for receptors at this location:

- 32 minutes of "green" glare with low potential to cause temporary after-image.
- 2,049 minutes of "yellow" glare with potential to cause temporary after-image.









PV array 5 - OP Receptor (OP 19)

No glare found

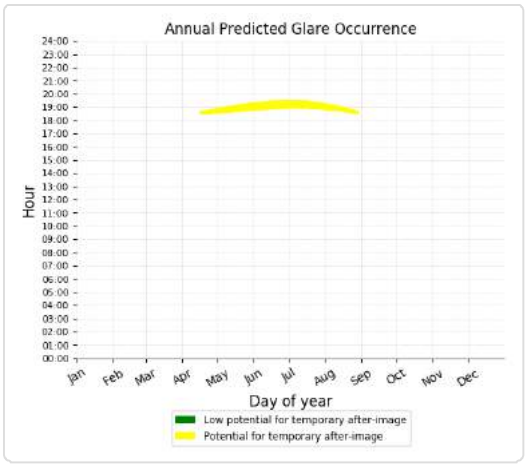
PV array 5 - OP Receptor (OP 20)

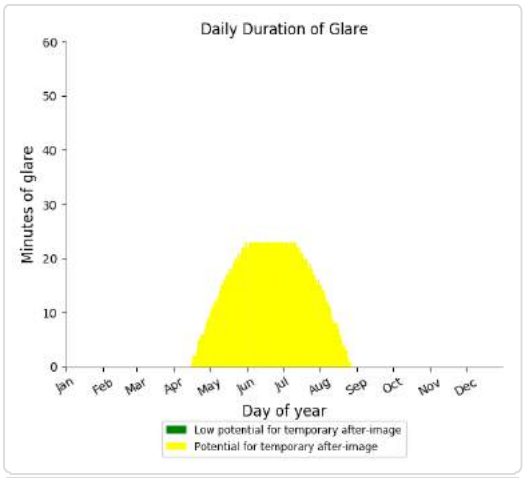
No glare found

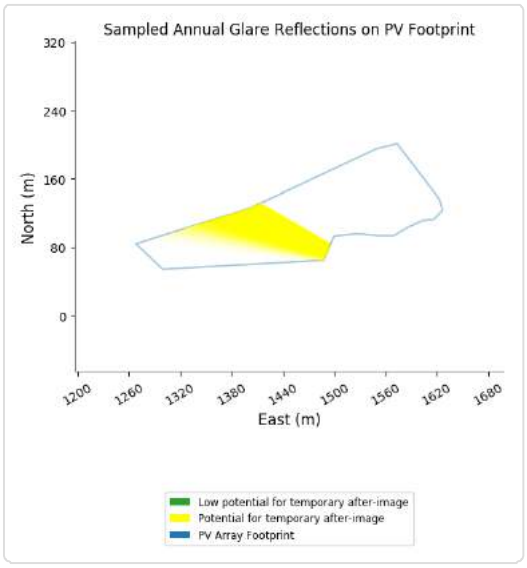
PV array 5 - OP Receptor (OP 21)

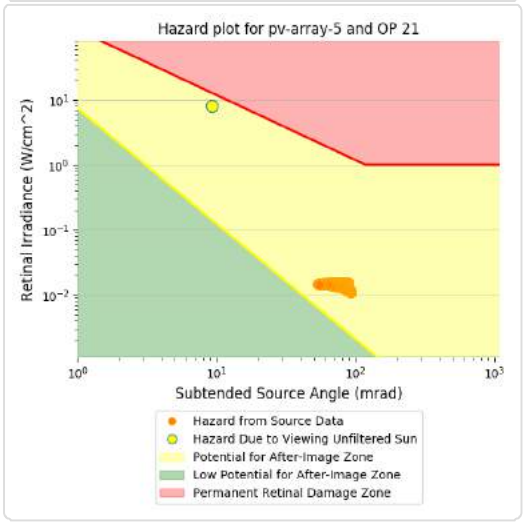
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,136 minutes of "yellow" glare with potential to cause temporary after-image.





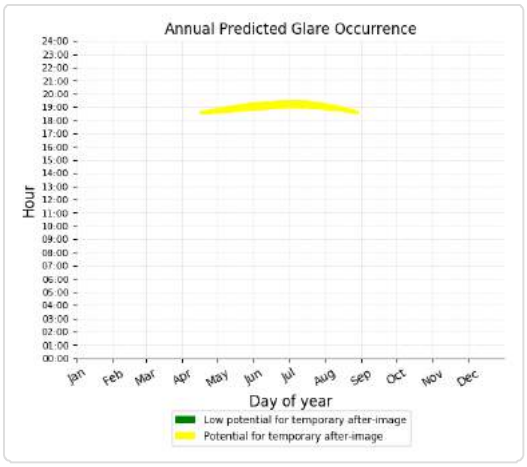


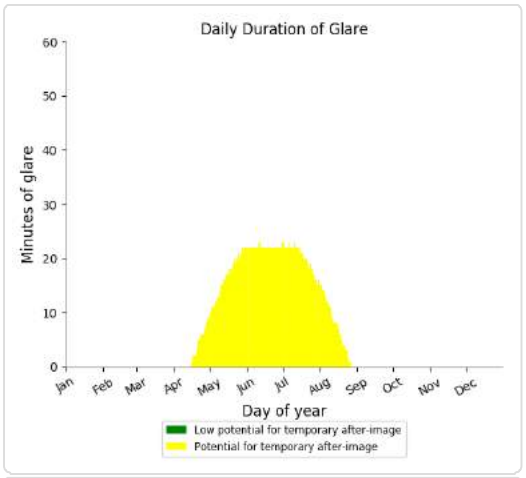


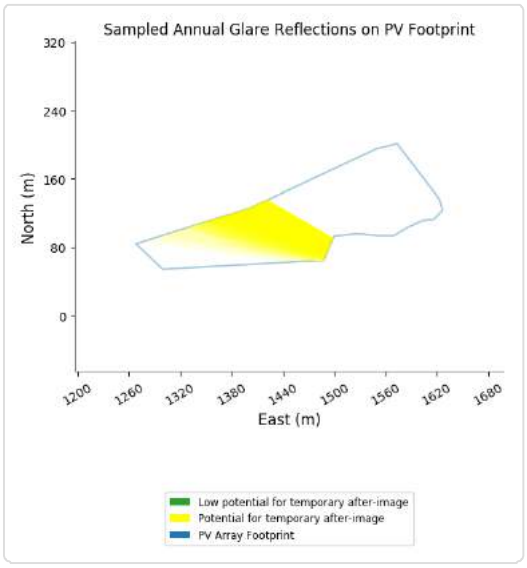
PV array 5 - OP Receptor (OP 22)

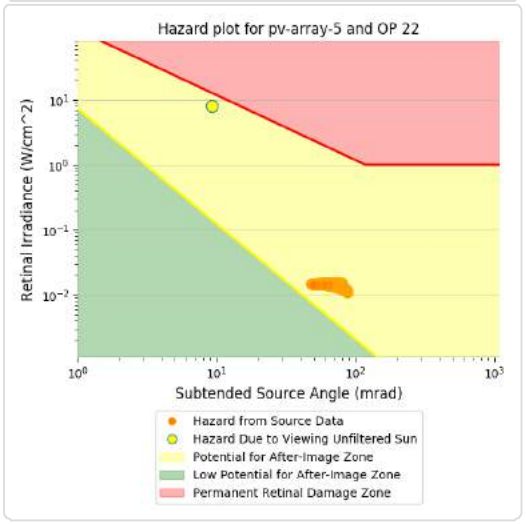
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,096 minutes of "yellow" glare with potential to cause temporary after-image.





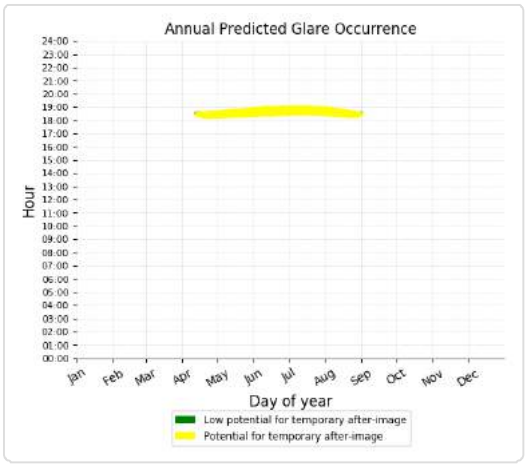


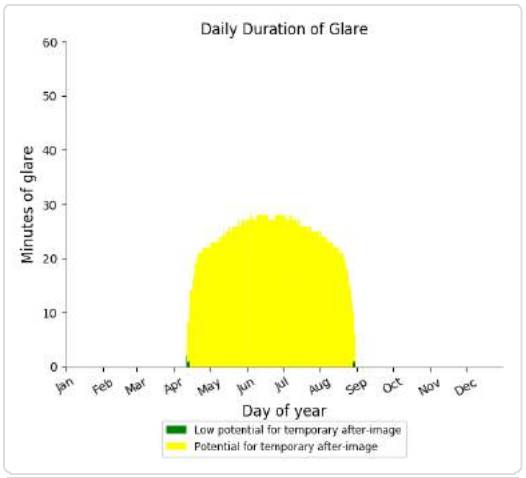


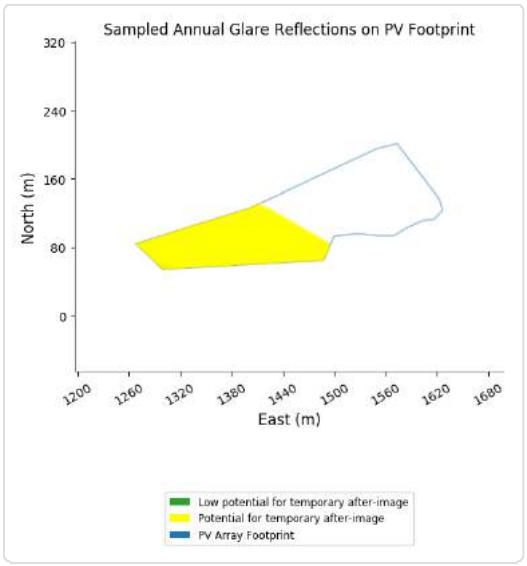
PV array 5 - OP Receptor (OP 23)

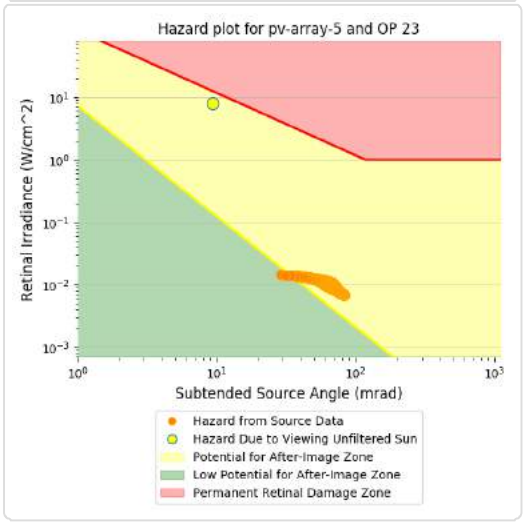
PV array is expected to produce the following glare for receptors at this location:

- 6 minutes of "green" glare with low potential to cause temporary after-image.
- 3,355 minutes of "yellow" glare with potential to cause temporary after-image.





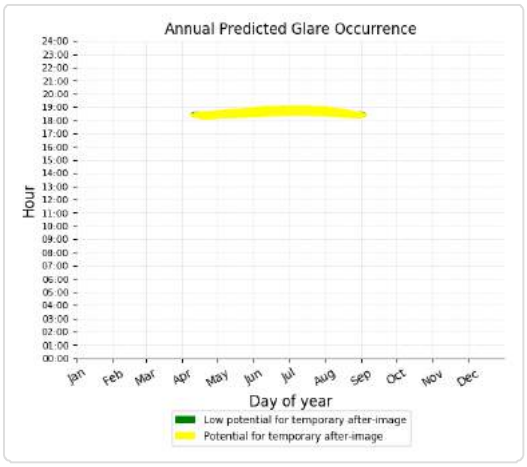


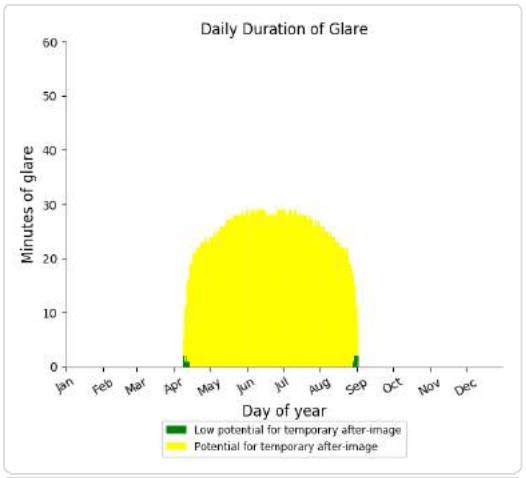


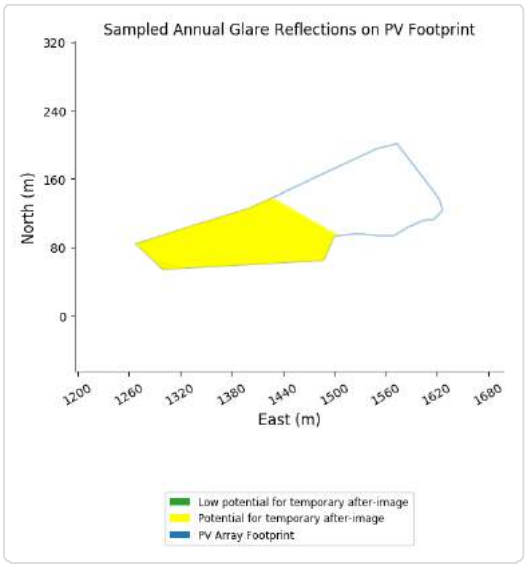
PV array 5 - OP Receptor (OP 24)

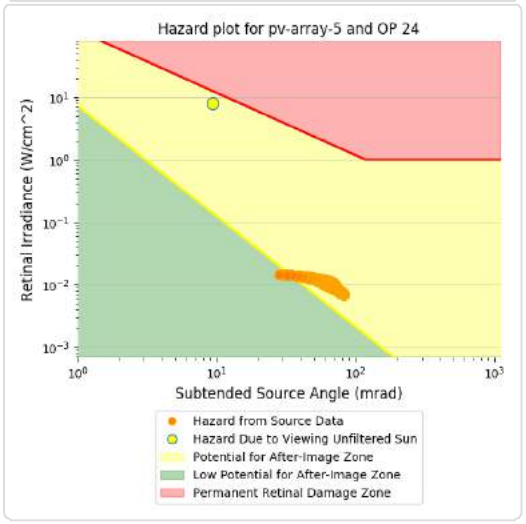
PV array is expected to produce the following glare for receptors at this location:

- 18 minutes of "green" glare with low potential to cause temporary after-image.
- 3,662 minutes of "yellow" glare with potential to cause temporary after-image.





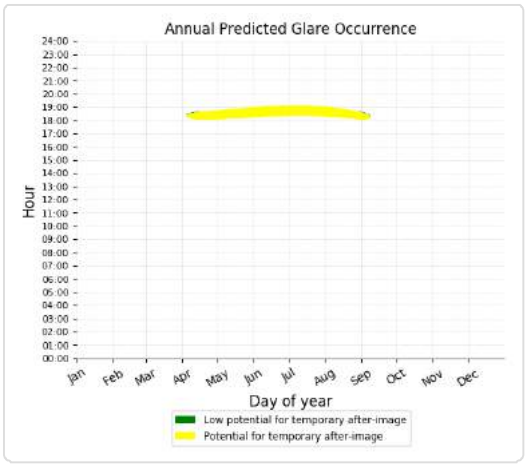


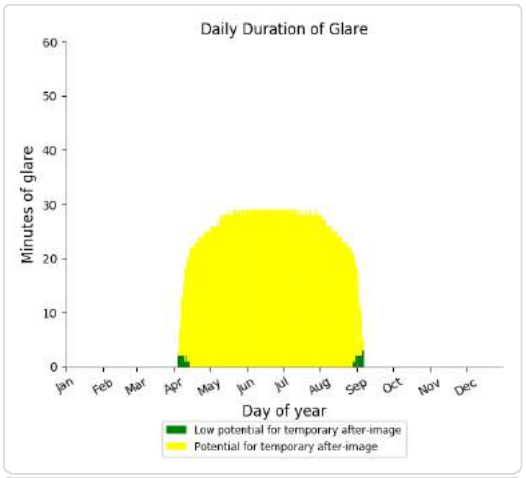


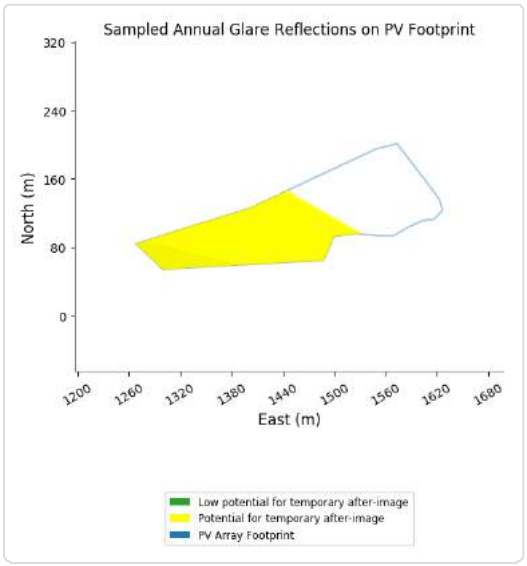
PV array 5 - OP Receptor (OP 25)

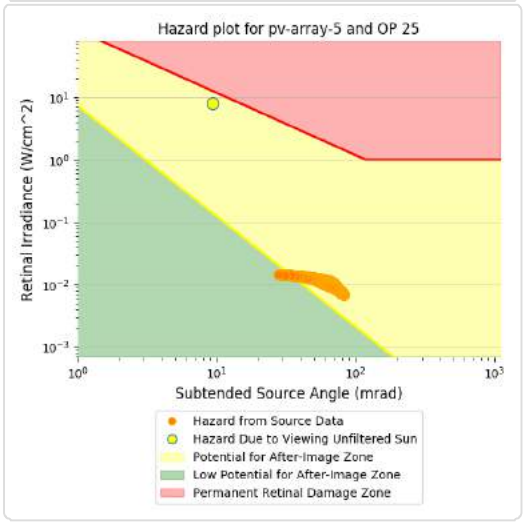
PV array is expected to produce the following glare for receptors at this location:

- 34 minutes of "green" glare with low potential to cause temporary after-image.
- 3,919 minutes of "yellow" glare with potential to cause temporary after-image.





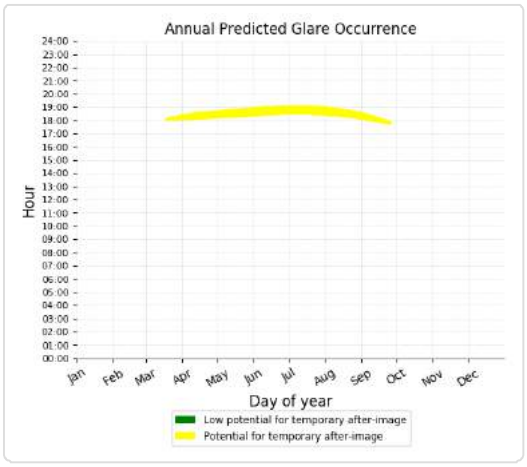


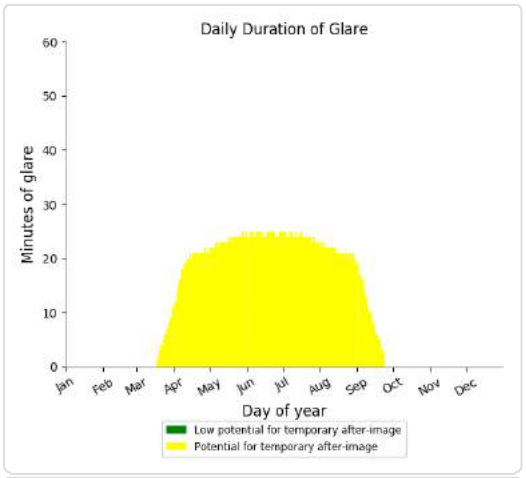


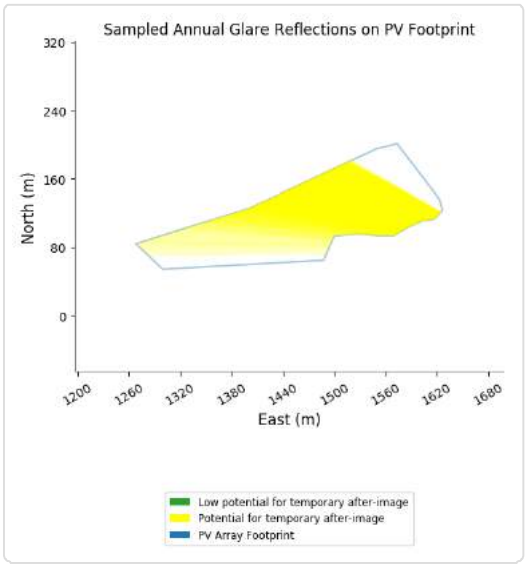
PV array 5 - OP Receptor (OP 26)

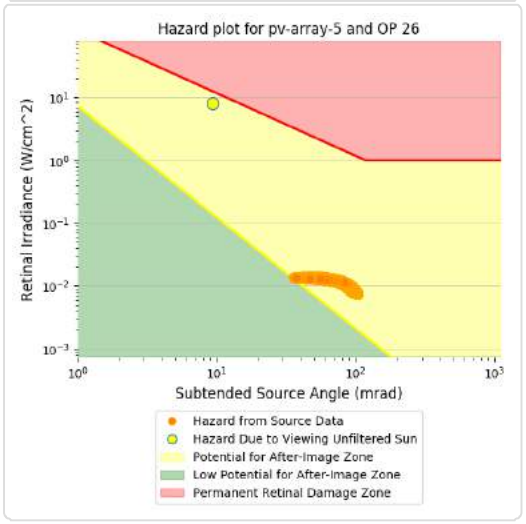
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 3,760 minutes of "yellow" glare with potential to cause temporary after-image.





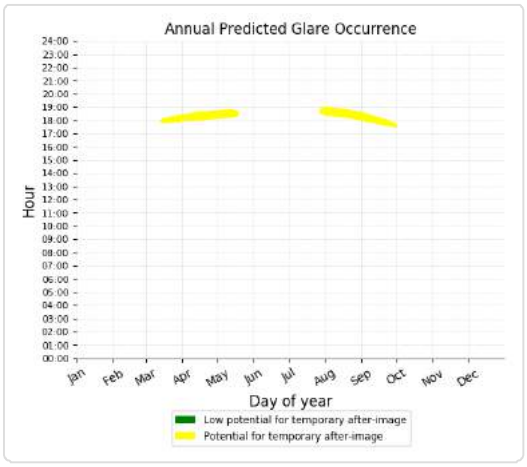


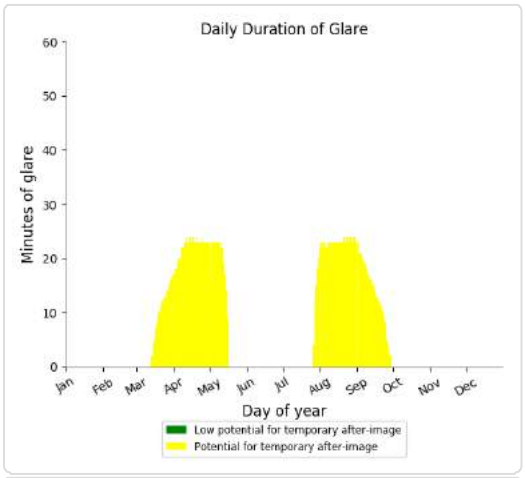


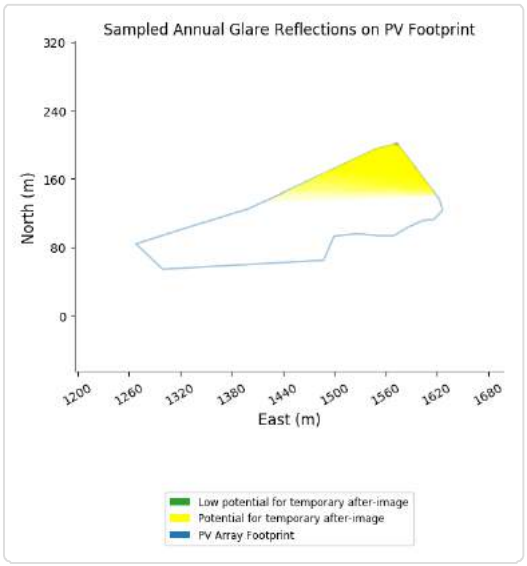
PV array 5 - OP Receptor (OP 27)

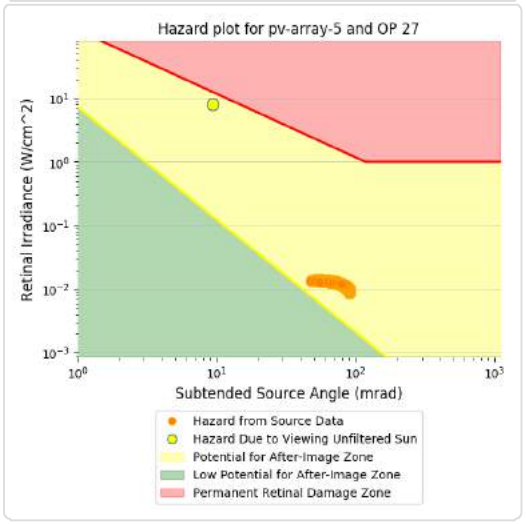
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,388 minutes of "yellow" glare with potential to cause temporary after-image.





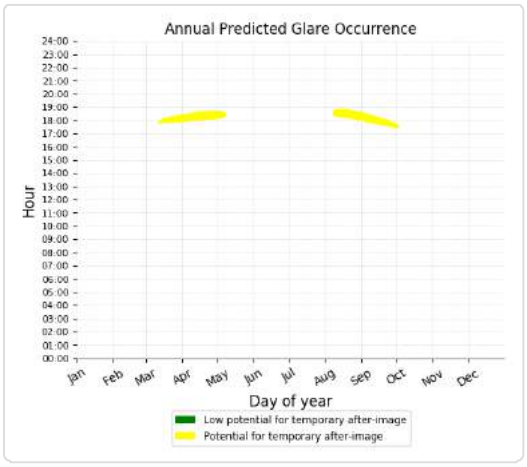


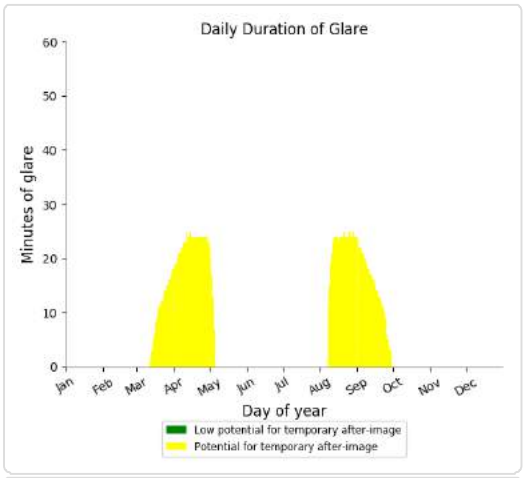


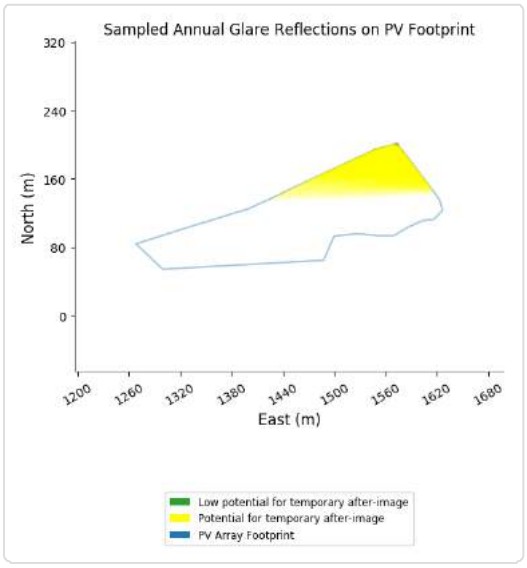
PV array 5 - OP Receptor (OP 28)

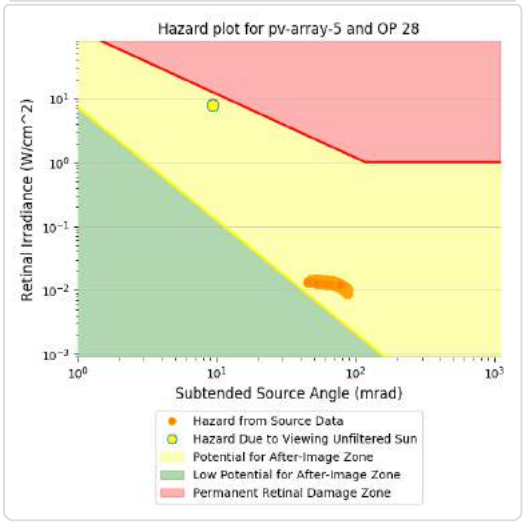
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,967 minutes of "yellow" glare with potential to cause temporary after-image.





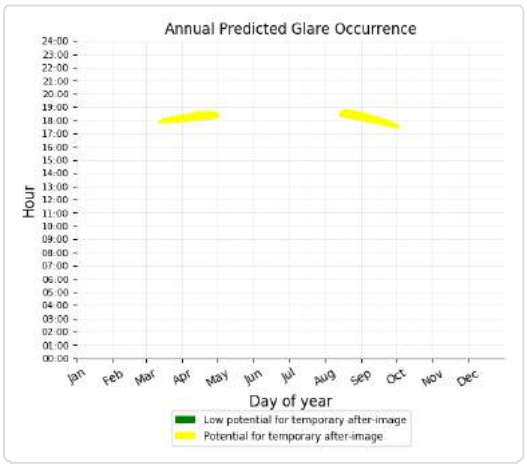


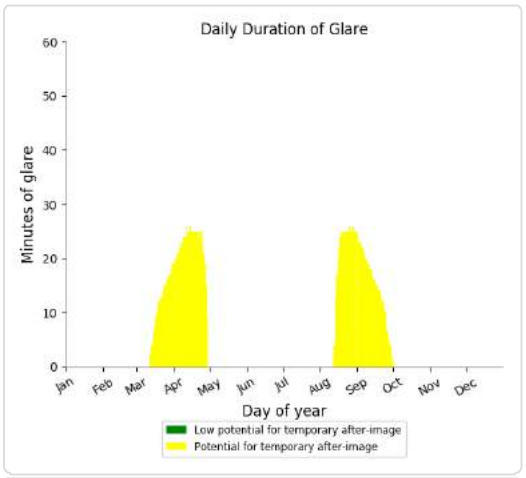


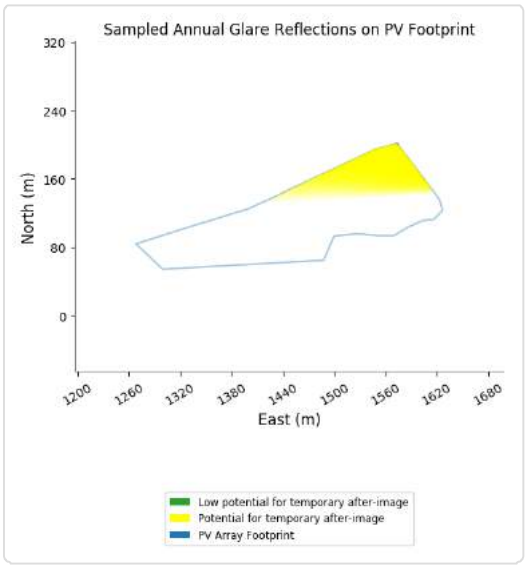
PV array 5 - OP Receptor (OP 29)

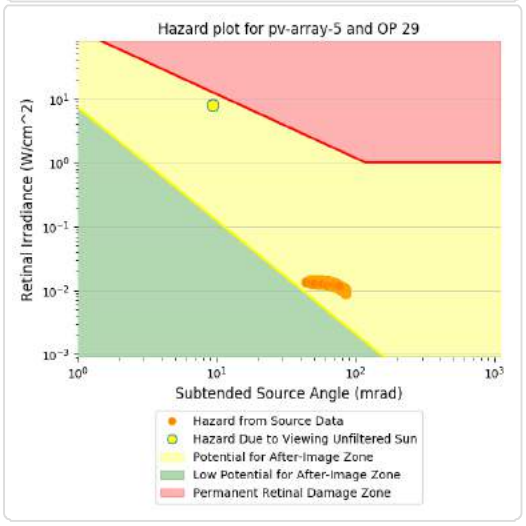
PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 1,782 minutes of "yellow" glare with potential to cause temporary after-image.









PV array 5 - OP Receptor (OP 30)

No glare found

PV array 5 - OP Receptor (OP 31)

No glare found

PV array 5 - OP Receptor (OP 32)

No glare found

PV array 5 - OP Receptor (OP 33)

No glare found

PV array 5 - OP Receptor (OP 34)

No glare found

PV array 5 - OP Receptor (OP 35)

No glare found

PV array 5 - OP Receptor (OP 36)

No glare found

PV array 5 - OP Receptor (OP 37)
No glare found

PV array 5 - OP Receptor (OP 38)
No glare found

PV array 5 - OP Receptor (OP 39)
No glare found

PV array 5 - OP Receptor (OP 40)
No glare found

PV array 5 - OP Receptor (OP 41)
No glare found

PV array 5 - OP Receptor (OP 42)
No glare found

PV array 5 - OP Receptor (OP 43)
No glare found

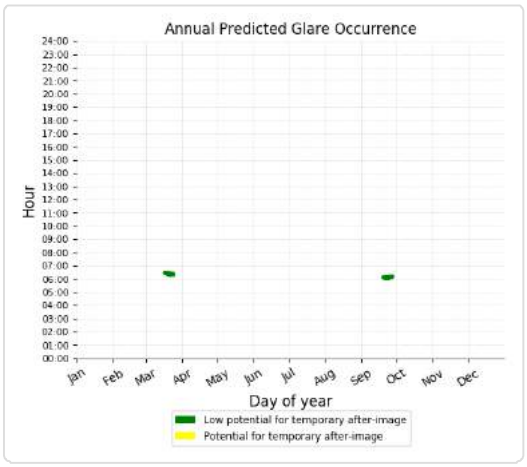
PV array 5 - OP Receptor (OP 44)
No glare found

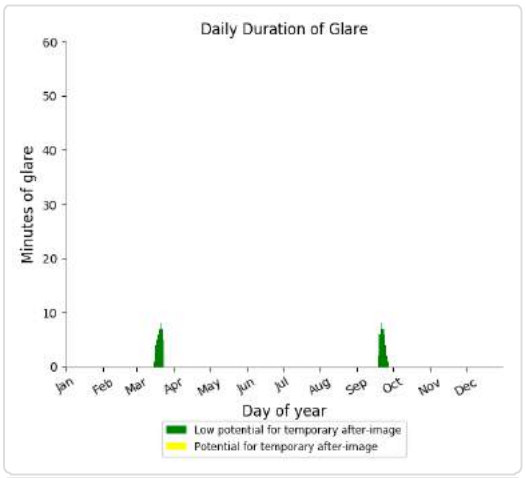
PV array 5 - OP Receptor (OP 45)
No glare found

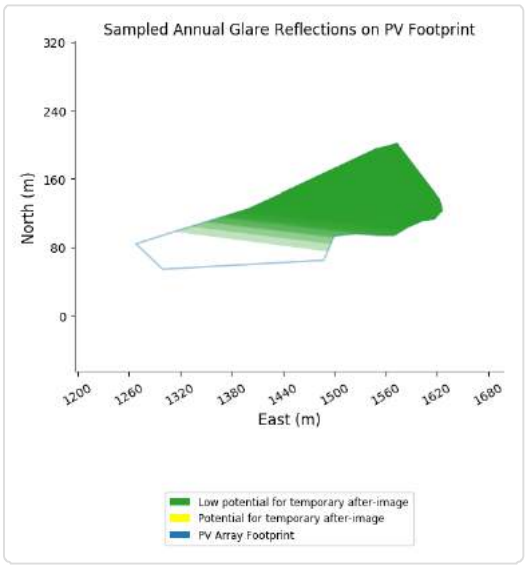
PV array 5 - OP Receptor (OP 46)

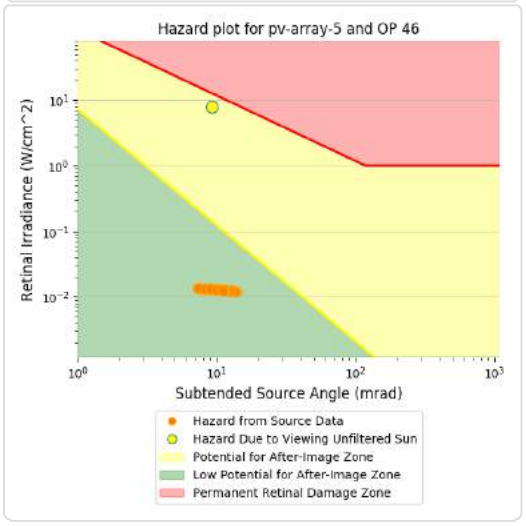
PV array is expected to produce the following glare for receptors at this location:

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





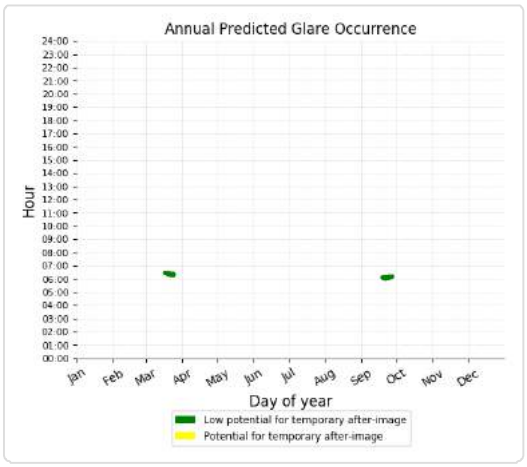


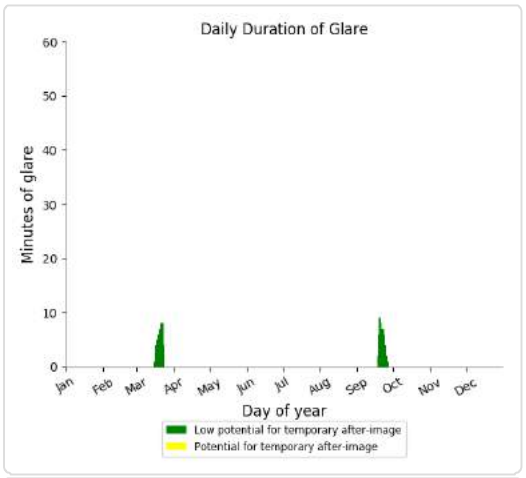


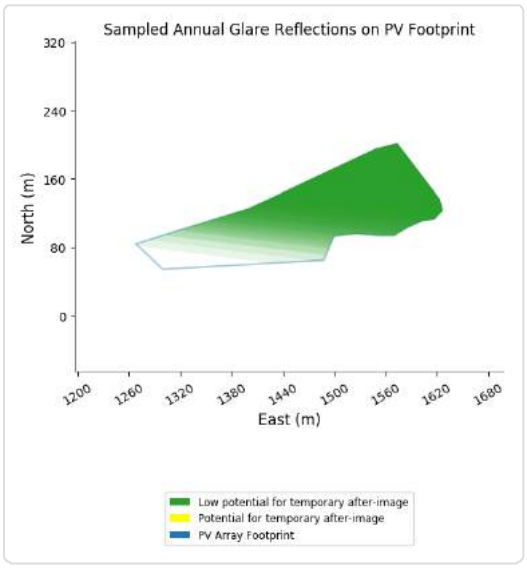
PV array 5 - OP Receptor (OP 47)

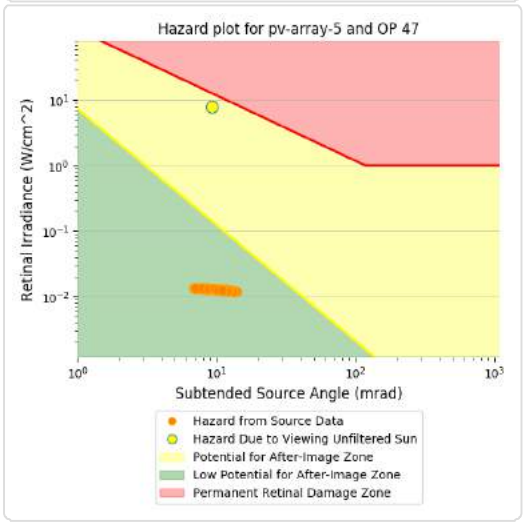
PV array is expected to produce the following glare for receptors at this location:

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









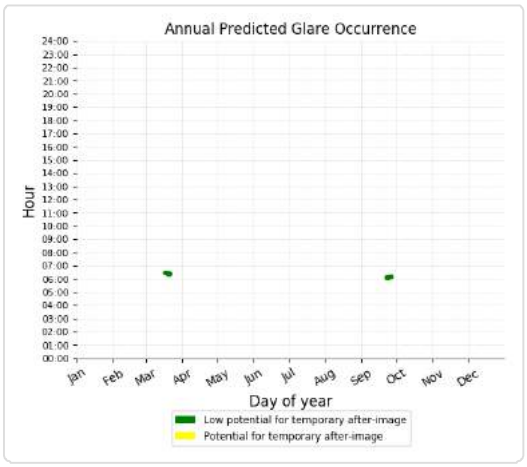
PV array 5 - OP Receptor (OP 48)

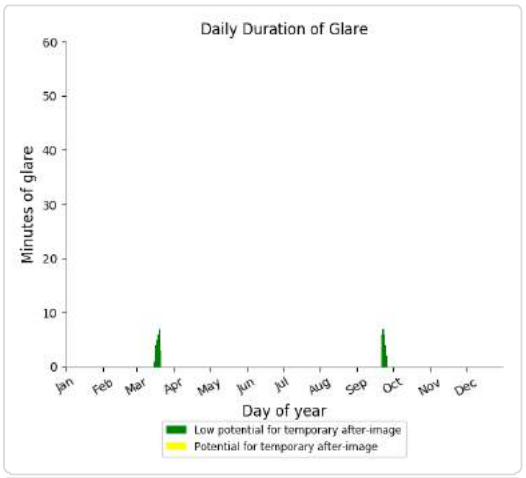
No glare found

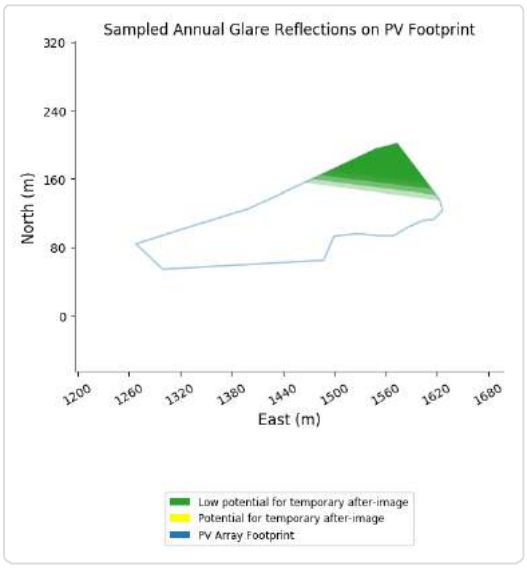
PV array 5 - OP Receptor (OP 49)

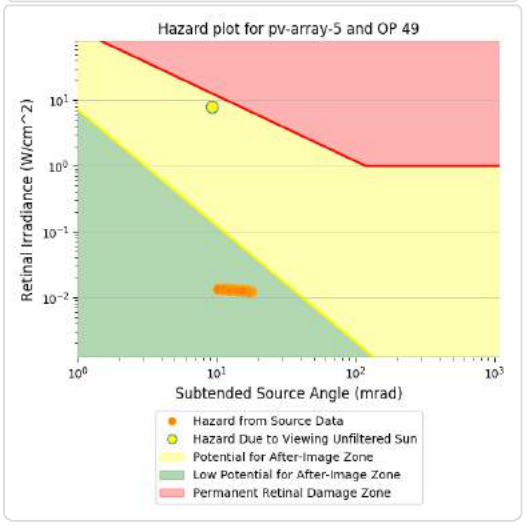
PV array is expected to produce the following glare for receptors at this location:

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





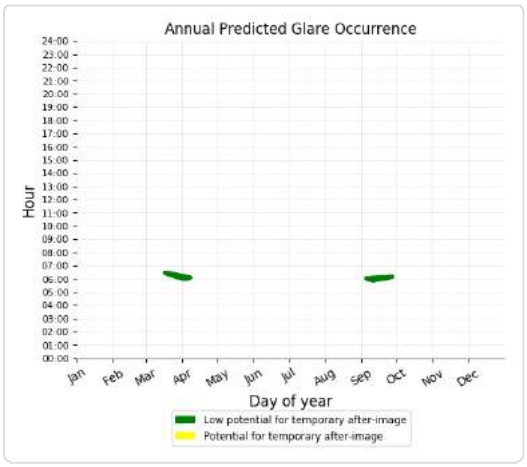


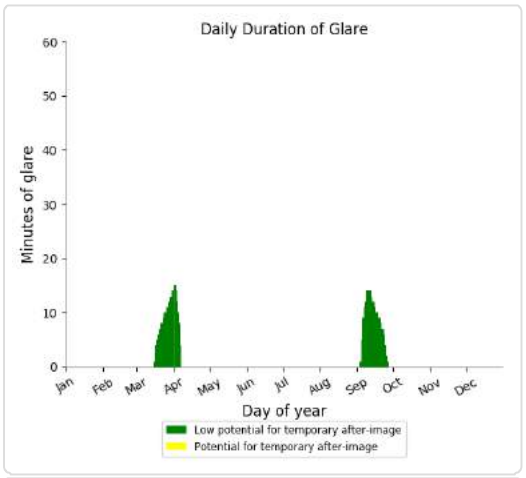


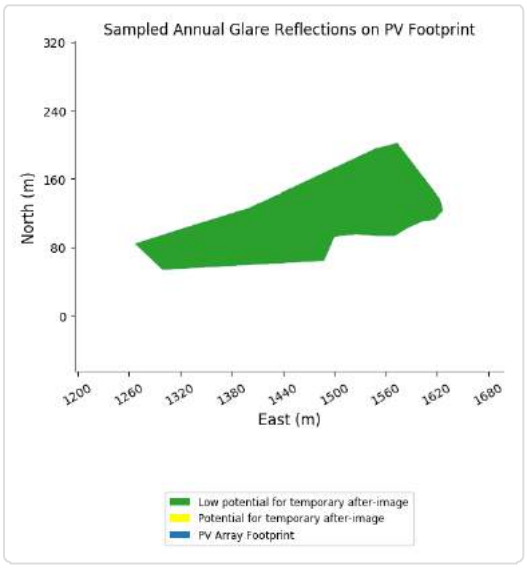
PV array 5 - OP Receptor (OP 50)

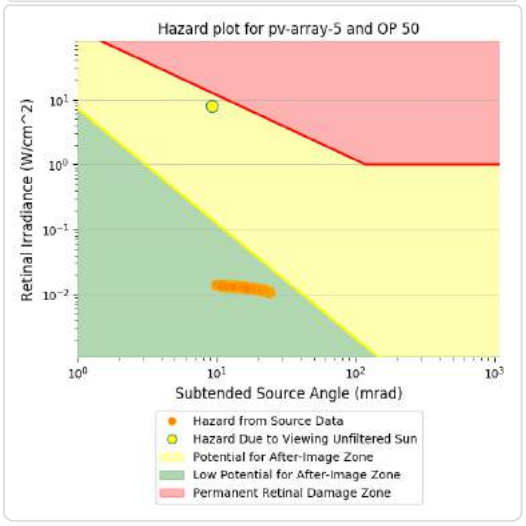
PV array is expected to produce the following glare for receptors at this location:

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





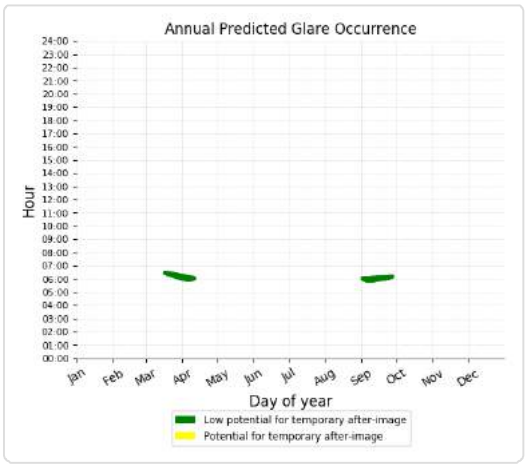


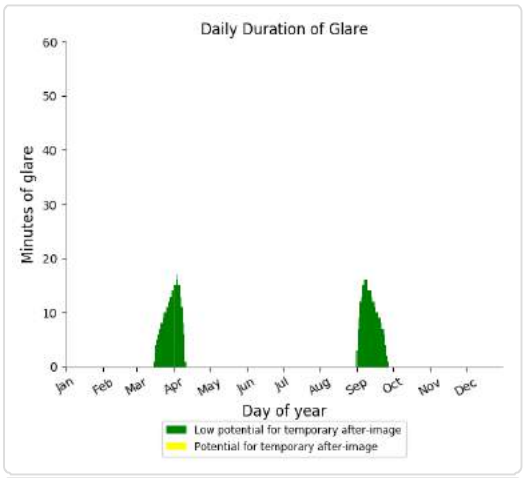


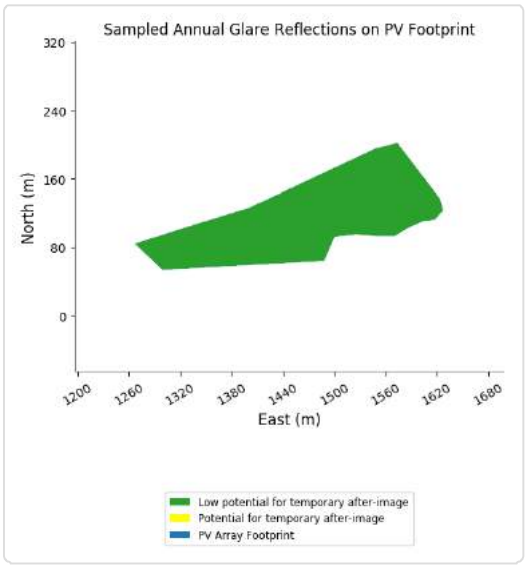
PV array 5 - OP Receptor (OP 51)

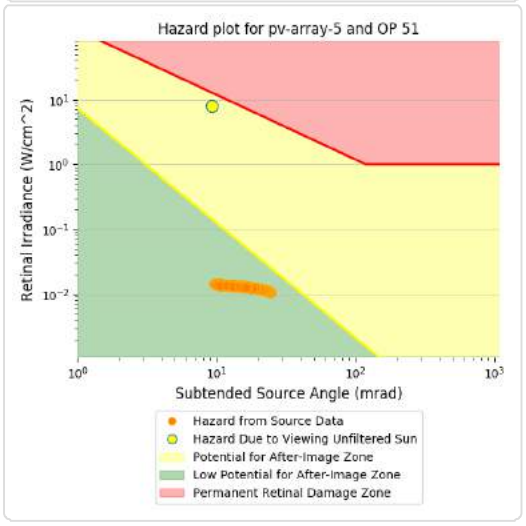
PV array is expected to produce the following glare for receptors at this location:

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





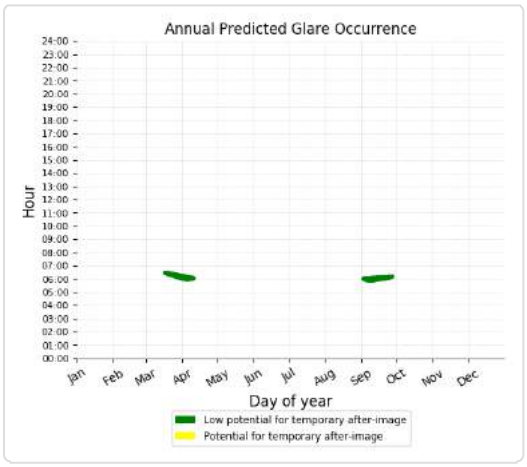


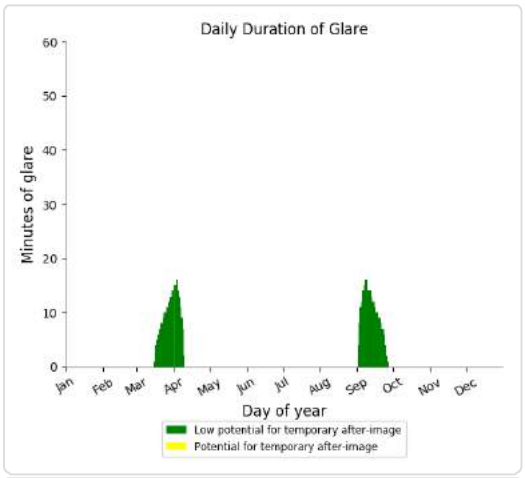


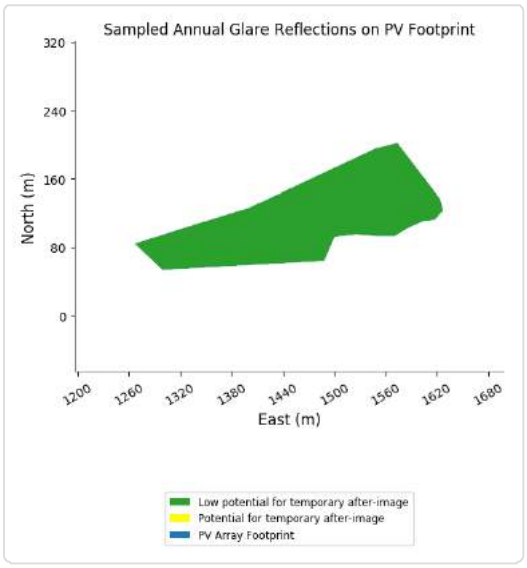
PV array 5 - OP Receptor (OP 52)

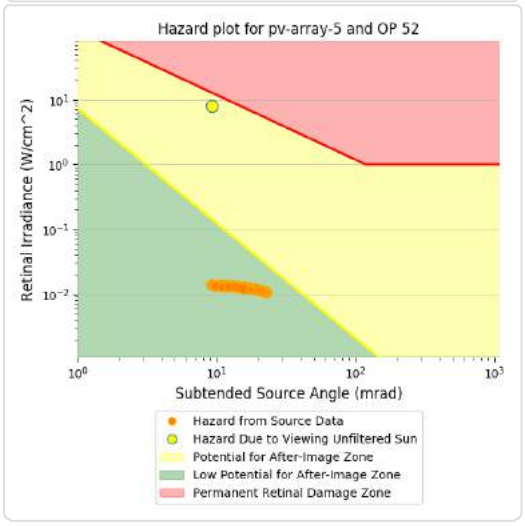
PV array is expected to produce the following glare for receptors at this location:

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









Assumptions

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