



**Song Sparrow Solar LLC Glare Hazard
Analysis**
Ballard County, Kentucky

September 1, 2023

Prepared for:

Song Sparrow Solar LLC
100 California Street, Suite 400
San Francisco, CA 94111

Prepared by:

Stantec Consulting Services Inc.
6920 Professional Parkway
Sarasota, FL 34240



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Executive Summary

Stantec Consulting Services, Inc. (Stantec) utilized the web-based ForgeSolar GlareGauge solar glare analysis tool, derived from the Solar Glare Hazard Analysis Tool (SGHAT) developed by Sandia National Laboratories, to analyze the potential for glare impacts upon roadway locations and residential structures that may be generated by the proposed Song Sparrow Solar Project (Project), a utility-scale solar-powered electric generation facility with a capacity of up to 104 megawatts (MW_{ac}) located in Ballard County, Kentucky, and depicted in **Figure 1**.

The ForgeSolar program identifies the three following types of glare (no color indicates no glare predicted):

GREEN - Low potential for temporary after-image (flash-blindness).

YELLOW - Potential for temporary after-image.

RED - Potential for permanent eye damage (retinal burn).

The analysis was completed at two heights for roadways: 5-ft (cars and small trucks) and 9-ft (semi-trucks) viewing heights. Road segments and residential structures were selected based on proximity to the array and road segments include Hinkleville Road, Randy Williams Road, Davis Road, Gage Road, Ceredo Road, County Line Road, Bondurant Road, and Buchanan Lane. All routes and structures were analyzed using 7.5-ft panel heights. The results of this analysis assume a 60 degree resting angle.

Based on the solar array parameters provided and the current site design, no glare is predicted for the Barkley Regional Airport or the associated air traffic control tower (ATCT). Glare is not predicted for any of the nine roads included in the analysis or for the 52 houses included in the analysis. In the absence of state or local regulations regarding predicted glare, results of the analysis were reviewed with respect to Federal Aviation Administration guidelines for on-airport solar array installations.



Abbreviations

AGL	Above Ground Level
deg	degrees (0 is due north, 180 is due south)
DNI	Direct Normal Irradiance
FAA	Federal Aviation Administration
FP	Flight Path (landing path from threshold to two miles out)
ft	Feet
kW	Kilowatt
kWh	kilowatt hour
m	Meters
mi	Mile
min	Minutes
mrad	Milliradian
MW	Megawatt
MSL	Mean Sea Level
OP	Observation Point (e.g., control tower, structure)
PV	Photovoltaic



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Glossary

Correlate Slope Error with Surface Type?	Correlates the slope error value based on the surface material type; default value is 8.43 milliradians (mrads).
Eye Focal Length (m)	Typical distance between the cornea and the retina of the human eye, default is 0.017, though some sources indicate that the typical length is 0.022.
Glide Slope (deg)	Angle at which the plane approaches the runway during landing (default is 3 degrees [deg] from horizontal).
Maximum Tracking Angle (deg)	Rotation limit of panels in either direction. Full rotation is 2*maximum tracking angle. E.g., maximum tracking angle of 60 deg indicates full panel rotation range of 120 deg.
Resting Angle (deg)	Angle modules return to after maximum angle is reached.
Observation Point	A specific location, such as a control tower or structure, from which an observer might experience glare.
Ocular Transmission Coefficient	Related to the ability of the eye to transmit light, set by at 0.5 by Forge Solar.
Offset angle of module (deg)	Additional tilt/elevation angle between the tracking axis and the panel.
Orientation of Tracking Axis (deg)	Azimuthal position of tracking axis measured clockwise from true north. Tracking systems in the northern hemisphere are typically oriented near 180 deg. Tracking systems in the southern hemisphere are typically oriented near 0 deg.
Peak DNI (W/m ²)**	This value is set at 1,000 by ForgeSolar and is the amount of solar radiation per unit surface area by a surface perpendicular to the sun's rays in a straight line from the direction of the sun at its current position in the sky.
Pupil Diameter (m)	Typical pupil diameter for observer, default is 0.002 meters (m).
PV Array Axis Tracking	Panel tracking mode, if any. Panel can be set to track along one (single) or two (dual) axis tracking. This parameter affects the positioning of the panels at every time step when the sun is up.
PV Array Panel Material	Surface material of panels, including use of anti-reflective coating (ARC). Options include: smooth glass without ARC, smooth glass with ARC, light-textured glass without ARC, light-textured glass with ARC, and deeply textured glass.
Rated Power (kW)	Power rating of the solar array - used to estimate the energy output per year of the array (optional).
Slope Error (mrad)	Accounts for beam scatter of sunlight on the array. Default is 8.43 mrads but the value may be adjusted based on the panel material type.
Subtended Angle of Sun (mrad)	The angle above horizontal at which the viewer observes the sun, default value is 9.3 mrad.
Threshold	The physical beginning of the runway. Aircraft are typically expected to be 50 ft above ground at this point.

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Time Interval (min)	Time step intervals used by the program for analyses. Default is set to analyze for glare at every one-minute interval throughout the year.
Time zone	Time zone difference from Greenwich Mean Time at the location of the analysis.
Tilt of Tracking Axis (deg)	The elevation angle of the tracking axis upon which panels rotate (e.g., torque tube), measured from flat ground. 0 deg implies the axis is on level, flat ground. Values between 0 and 30 deg are typical.
Vary Reflectivity	Varies panel reflectivity with sun position at each time step.
Maximum Downward Viewing Angle (deg)	The angle extending downward from the horizon indicating the maximum downward viewing angle from the cockpit. Used to determine whether glare is visible by the pilot along the flight path. Default is 30 degrees.

Sources:

Ho, Clifford, K., Cianan A. Sims, Julius E. Yellowhair. 2015. Solar Glare Hazard Analysis Tool (SGHAT) Users Manual v. 2H. Sandia National Laboratories.

ForgeSolar – PV Planning & Glare Analysis. <https://www.forgesolar.com/>

**Source: <http://www.3tier.com/en/support/solar-prospecting-tools/what-direct-normal-irradiance-solar-prospecting/>

1.0 INTRODUCTION

On behalf of Song Sparrow Solar LLC, Stantec utilized the web based ForgeSolar GlareGauge solar glare analysis tool, derived from the Solar Glare Hazard Analysis Tool (SGHAT) developed by Sandia National Laboratories, to analyze the potential for glare from the roadway locations and residential structures that may be generated by the proposed Song Sparrow Solar Project (Project). Roadway locations were selected as road segments nearest to the project, including Hinkleville Road, Randy Williams Road, Davis Road, Gage Road, Ceredo Road, County Line Road, Bondurant Road, and Buchanan Lane. The Project is located near the intersection of Gage and Davis Roads approximately 4 miles south of Kevil, Kentucky (**Figure 1**).

ForgeSolar is an interactive tool that provides a quantified assessment of (1) when and where glare will occur throughout the year for a prescribed solar project and (2) potential effects on the human eye at locations where glare occurs. Glare can occur from the reflection of sunlight on the PV solar panels of utility-scale solar-powered electric generating facilities. While PV solar panels absorb direct sunlight, some reflection can especially occur when the panels are directed close to horizontal, which predominately occurs during sunset and sunrise when the incidence angle of the panels is highest, as depicted in **Figure 2**.

ForgeSolar employs an interactive Google map for site location, mapping the proposed PV array(s), and specifying observer locations, vehicular travel routes, or flight paths. Latitude, longitude, and elevation are automatically recorded through the Google interface, providing necessary information for sun position and vector calculations. Additional information regarding the orientation and tilt of the PV solar panels, reflectance, environment, and ocular factors are entered by the user.

If glare is found, the tool calculates the retinal irradiance and subtended angle (size/distance) of the glare source to predict potential ocular hazards ranging from temporary after-image to retinal burn. The results are presented in a plot that specifies when glare will occur throughout the year, with color codes indicating the potential ocular hazard.

Arrays, routes, and structures are shown in **Figures 3 through 5**. Due to program limitations on the number of subarrays that may be drawn per analysis, the site was broken up into three analysis blocks. Not all houses or road segments were analyzed within all blocks; only the houses and road segments listed above within the immediate vicinity of a block were included in the analysis for that block and all road segments listed above are analyzed with at least one of the blocks. **Table 2** below describes which roads were analyzed with each block.

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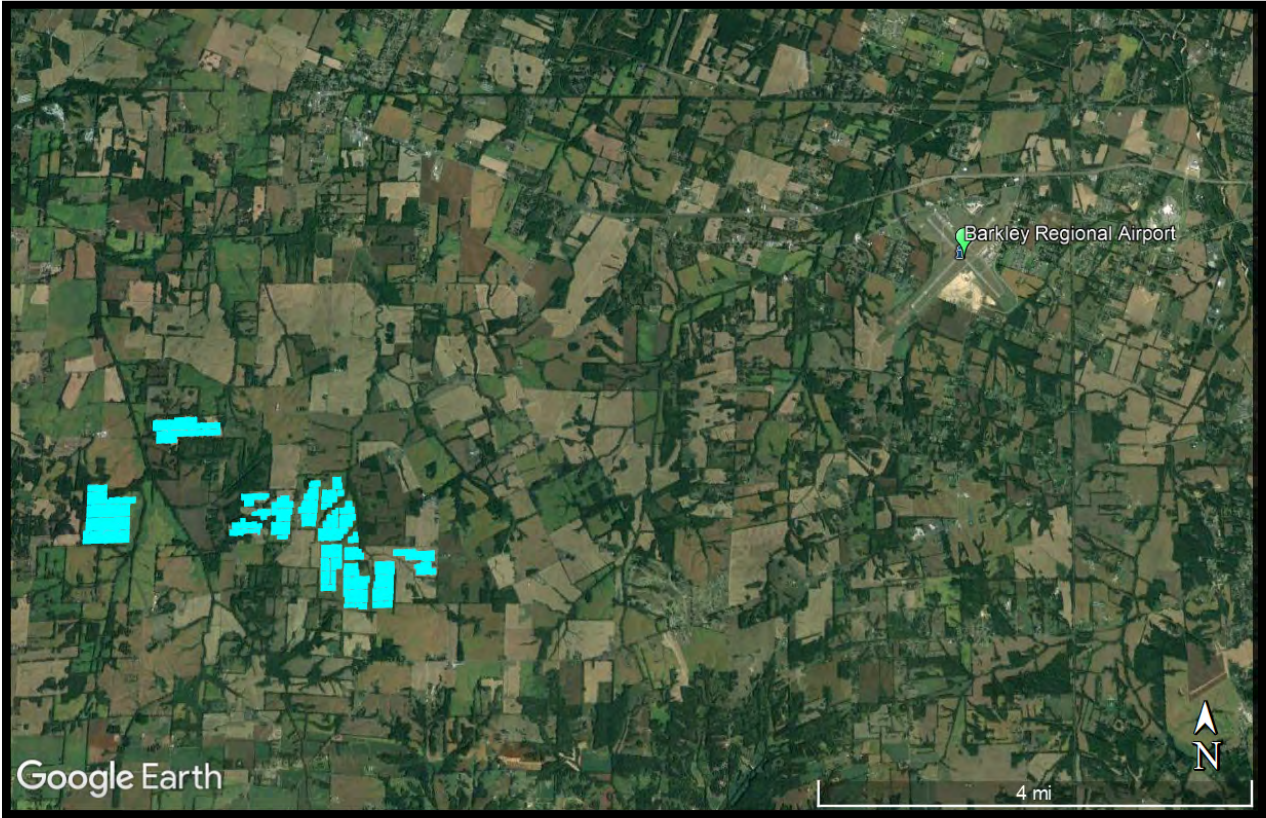


Figure 1. Song Sparrow Solar Project Location Map *
*Blue lines represent the PV array. Source: Google Earth Imagery

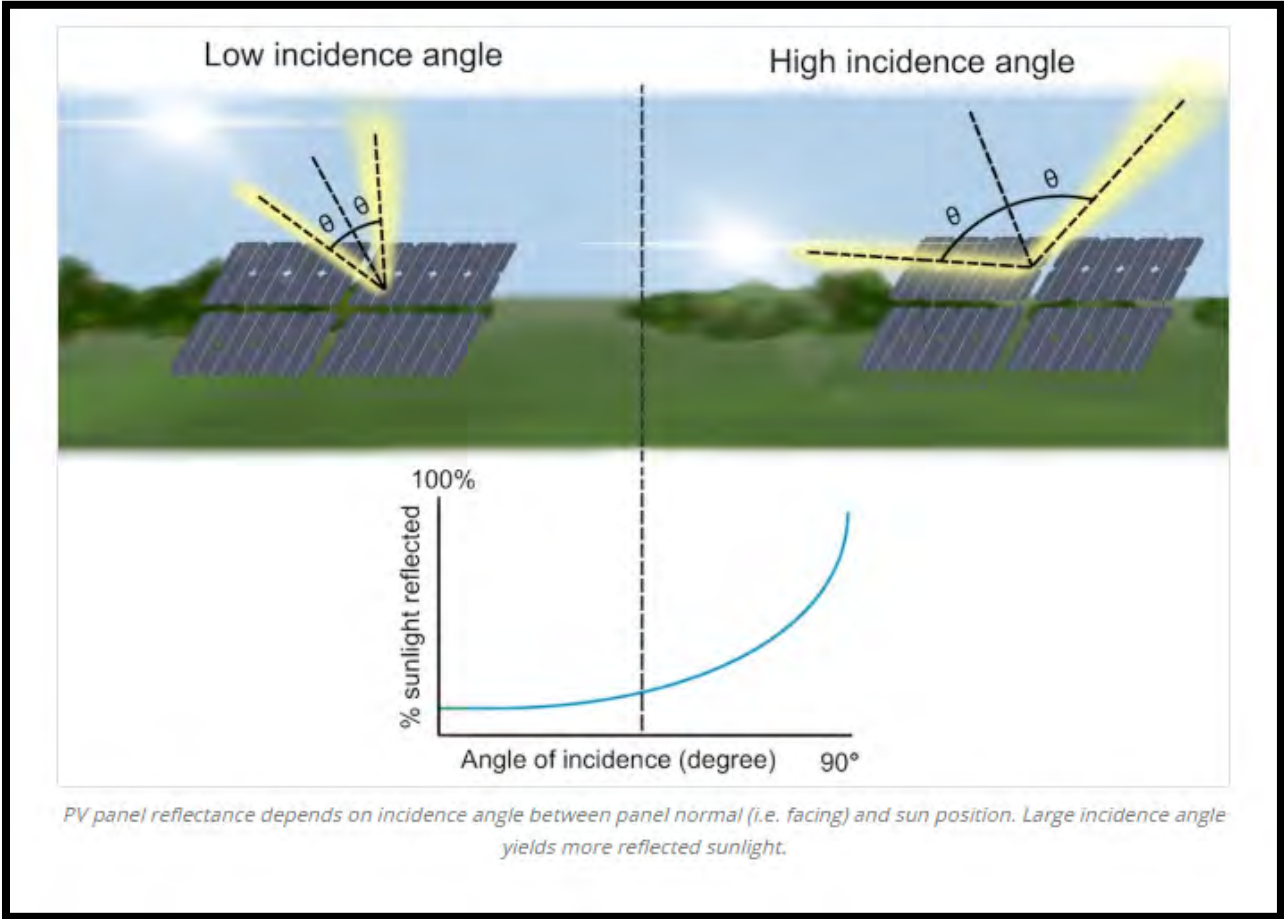


Figure 2. Reflectivity differences between low and high incidence angles.
Source: ForgeSolar.com 2023

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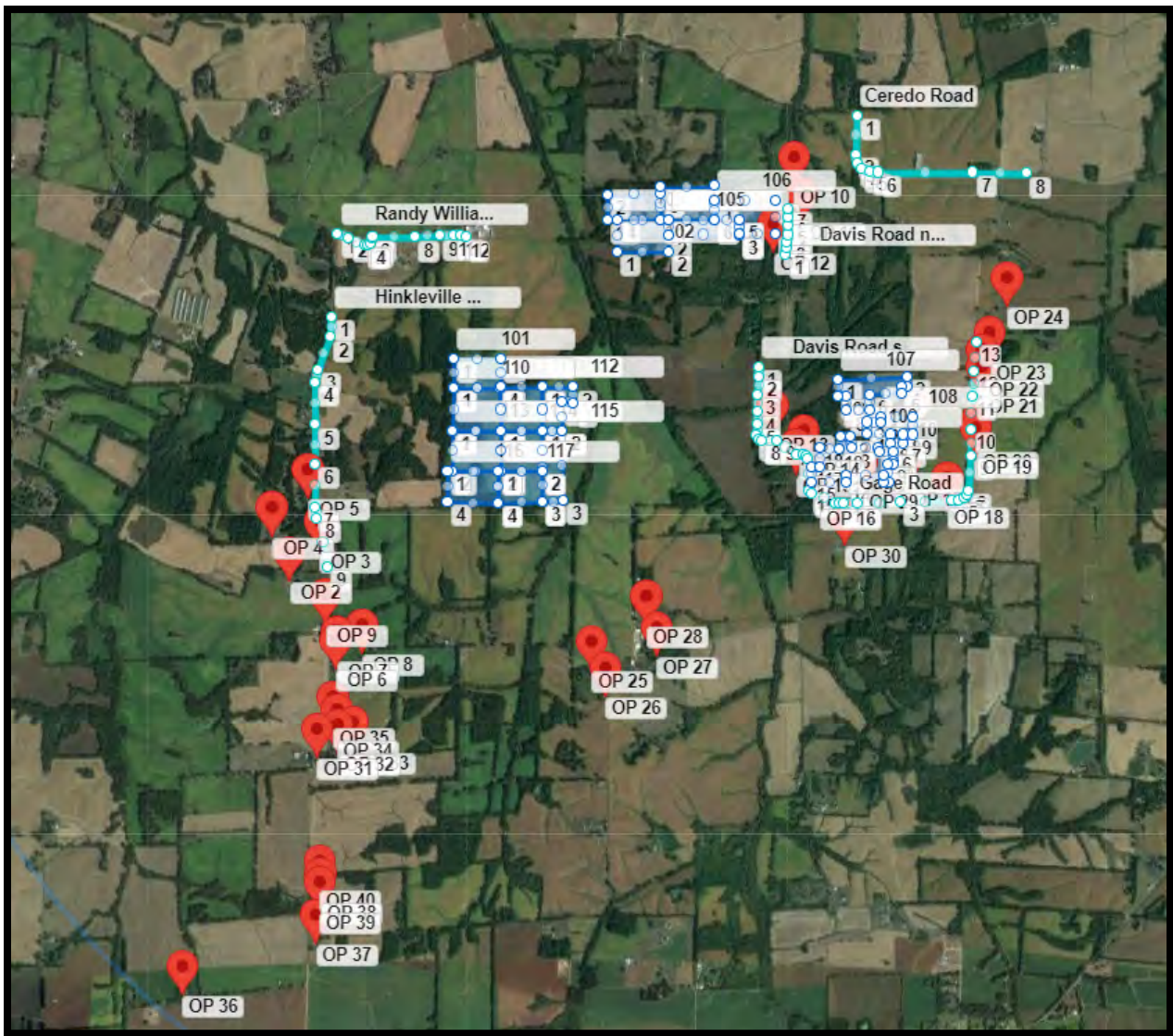


Figure 3. Block 1 Analysis area, structures and roadways*

*Red markers indicate structures, turquoise lines indicate roads, and blue polygons indicate PV arrays.
Source: ForgeSolar, Google Earth Imagery.

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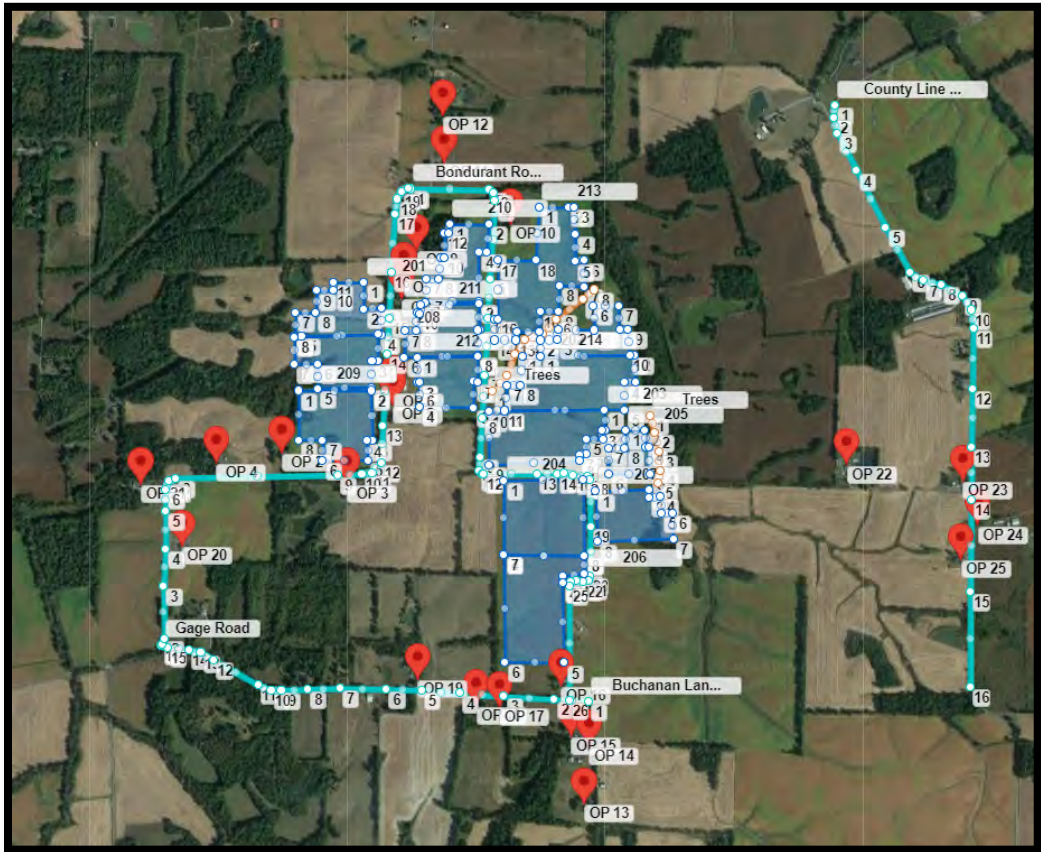


Figure 4. Block 2 Analysis area, structures and roadways*

*Red markers indicate structures, turquoise lines indicate roads, orange lines indicate obstructions/trees, and blue polygons indicate PV arrays. Source: ForgeSolar, Google Earth Imagery.

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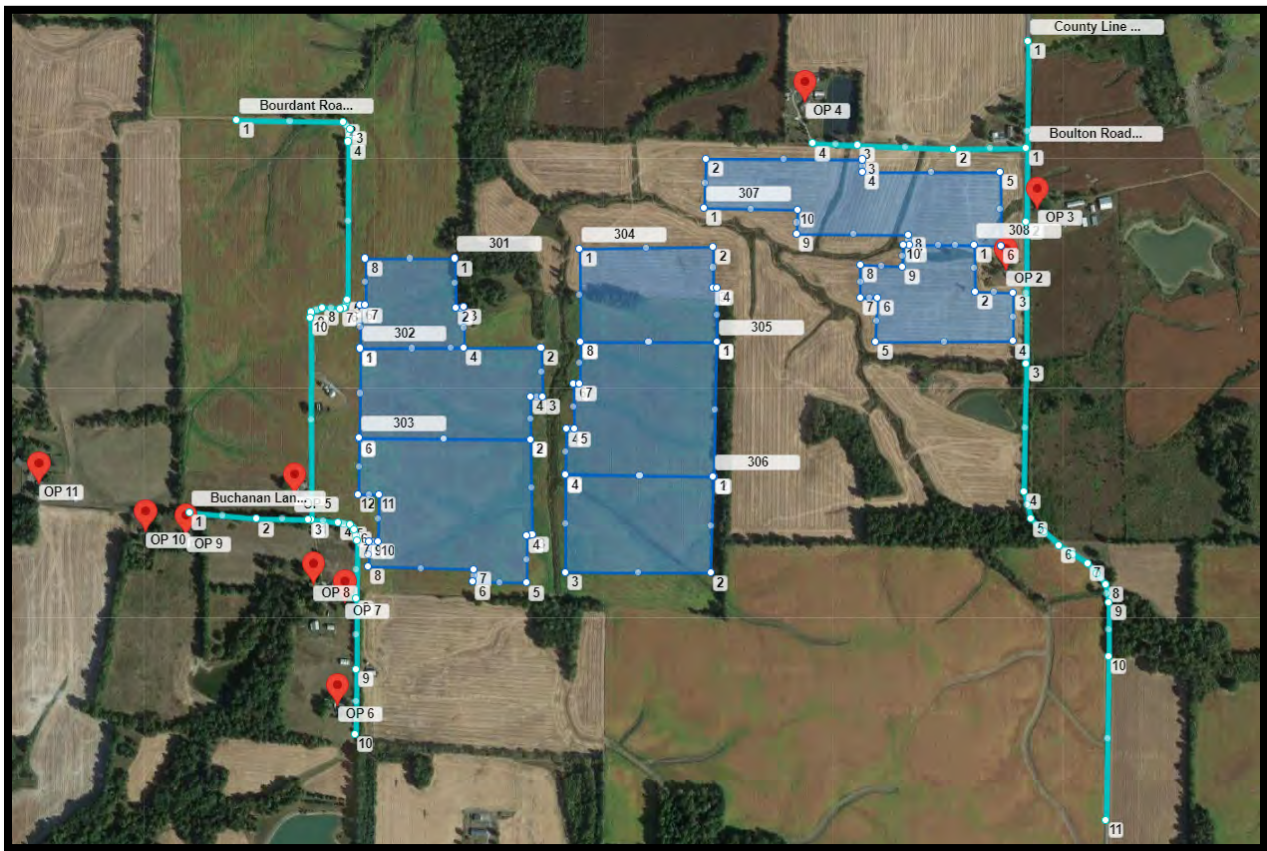


Figure 5. Block 3 Analysis area, structures and roadways*

*Red markers indicate structures, turquoise lines indicate roads, and blue polygons indicate PV arrays.
Source: ForgeSolar, Google Earth Imagery.

2.0 DATA INPUT SUMMARY

The parameters used for the analyses are listed in **Table 1** below. “Default” indicates the default parameter value set by ForgeSolar and is generally considered the most conservative value for the parameter. “Chosen” parameters were selected to perform the most conservative analysis with respect to glare potential. “Provided” parameters are Project specific information provided by the client.

2.1 SOLAR ARRAY

The location of the solar array and array parameters used for the analyses are based on information provided by Song Sparrow Solar LLC. A detailed description of each parameter is provided in the Glossary.

Table 1: Solar Panel Parameters Used for the Glare Analysis

Parameter	Value Used	Default, Chosen or Provided?
Axis tracking	Single axis – shade/slope method	Provided
Tracking Axis Tilt (deg)	0.0	Provided
Tracking Axis Orientation (deg)	180.0	Provided
Tracking Axis Panel Offset (deg)	0.0	Default
Maximum Tracking Angle (deg)	60	Provided
Resting Angle (deg)	0, 10, 60	Provided
Rated Power (kW)	Not Used	NA
Vary reflectivity?	Yes	Default
Panel material	Smooth glass with Anti-Reflective Coating	Provided
Timezone offset	-6	Based on site location
Subtended angle of sun (mrad)	9.3	Default
Peak DNI (W/m ²)	1,000	Default
Ocular transmission coefficient	0.5	Default
Pupil diameter (m)	0.002	Default
Eye focal length (m)	0.017	Default
Time interval (min)	1	Default
Correlate slope error with surface type?	Yes	Default
Slope error (mrad)	8.43	Default
Ground Cover Ratio (GCR)	0.3	Provided

2.2 AIRPORT APPROACH PATHS AND AIR TRAFFIC CONTROL TOWER (ATCT)

Only one airport is located within 10 miles of the proposed array, the Barkley Regional Airport, which includes an air traffic control tower (ATCT). The height of the ATCT is not published and therefore a

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conservative height of 50 feet was used for this analysis. A second airstrip, Terry Field, is listed as being located within 10 miles of the project site; however, since no runways could be discerned on aerial imagery, this airstrip was not included in this analysis. The Federal Aviation Administration does not have a requirement to determine potential glare for off-airport projects and the 10 mile radius used should be considered highly conservative.

2.3 ROADWAYS AND PROPERTIES LOCATED ADJACENT TO THE SOLAR ARRAYS

This analysis included potential glare to vehicles travelling on segments of nine different roads in the vicinity of the Project (**Figures 3-5**). **Table 2** indicates which road segments were analyzed within each block. The ForgeSolar program sets the default viewing angle of the array at 50 degrees from the driver's direct line of sight (when looking forward). The Federal Aviation Administration (FAA) has determined that glare beyond 50 degrees from the line of sight will have no impact on the viewer¹.

Table 2: Roads included in each analysis block.

Road	Included in Analysis Block
Hinkleville Road	1
Randy Williams Road	1
Davis Road – north segment	1
Davis Road – south segment	1
Gage Road	1, 2
Ceredo Road	1
County Line Road	2, 3
Bondurant Road	2, 3
Buchanan Lane	2, 3
Boulton Road	3

Potential glare to drivers was evaluated for both passenger vehicles and semi-trucks, where the passenger vehicles were assumed to have a maximum viewing height of 5-ft AGL while the viewing height for drivers of semi-trucks was assumed to be a maximum of 9-ft AGL. The location of the roadway routes analyzed are shown as blue-green route lines on **Figures 3 through 5**.

Potential glare was evaluated for viewers located at residences for up to 39 observation points (OPs) in each analysis block (OP 1 is the ATCT and there is a 40 OP limitation in the program). These points were provided by Song Sparrow Solar and all points provided, except R-20, were included in at least one analysis block. Point R-20 is located in the middle of an array and therefore was not included in this analysis. A viewing height of 16-ft AGL was used for viewers at the structures. Structures and roadways were analyzed for 7.5-ft panel heights. Resting angles of 0, 10 and sixty degrees were used for the analyses.

¹ Rogers, J. A., et al. (2015). Evaluation of Glare as a Hazard for General Aviation Pilots on Final Approach, Federal Aviation Administration ([link](#))

3.0 GLARE ANALYSES RESULTS

The web-based ForgeSolar program was used to analyze glare potential in one-minute increments throughout the year and results are presented in **Appendix A**. The program identifies the three following types of glare (no color indicates no glare predicted):

GREEN - Low potential for temporary after-image (flash blindness).

YELLOW - Potential for temporary after-image.

RED - Potential for permanent eye damage (retinal burn).

3.1 AIRPORT APPROACH PATHS AND CONTROL TOWERS

No glare is predicted for the Barkley Regional Airport or the associated ATCT using a 60-degree resting angle.

3.2 ROADWAYS AND PROPERTIES LOCATED ADJACENT TO THE SOLAR ARRAYS

Glare is not predicted for drivers along the nine analyzed road segments adjacent to the Project area when using a 60 degree resting angle. Glare is also not predicted for the 52 structures included in the analysis.

4.0 CONCLUSIONS

Based on the solar array parameters provided and the current site design, no glare is predicted for the Barkley Regional Airport or the associated ATCT. Glare is not predicted for nine roads included in the analysis or for the 52 houses included in the analysis. These results assume that a minimum 60 degree resting angle will be used.

APPENDIX A

ForgeSolar Reports

Song Sparrow Solar

Block 1 5ft vehicles 0 deg resting

Created Aug 18, 2023
Updated Aug 18, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 98030.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: **0.5**
 Pupil diameter: **0.002 m**
 Eye focal length: **0.017 m**
 Sun subtended angle: **9.3 mrad**

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg		deg	min	
101	SA tracking	SA tracking	686	0	-
102	SA tracking	SA tracking	1,454	0	-
103	SA tracking	SA tracking	1,936	0	-
104	SA tracking	SA tracking	1,334	0	-
105	SA tracking	SA tracking	1,101	0	-
106	SA tracking	SA tracking	1,589	0	-
107	SA tracking	SA tracking	2,102	571	-
108	SA tracking	SA tracking	1,721	1,234	-
109	SA tracking	SA tracking	10,033	8,729	-
110	SA tracking	SA tracking	3,629	0	-
111	SA tracking	SA tracking	2,961	0	-
112	SA tracking	SA tracking	0	0	-
113	SA tracking	SA tracking	1,524	0	-
114	SA tracking	SA tracking	2,512	0	-
115	SA tracking	SA tracking	4,076	0	-
116	SA tracking	SA tracking	2,988	0	-
117	SA tracking	SA tracking	2,532	0	-

Component Data

PV Array(s)

Total PV footprint area: 243.4 acres

Name: 101

Footprint area: 13.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

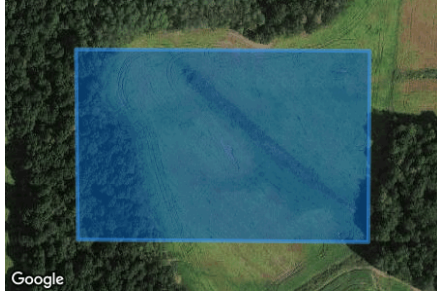
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.028688	-88.924307	502.68	7.50	510.18
2	37.028675	-88.921045	418.49	7.50	425.99
3	37.026992	-88.921061	405.95	7.50	413.45
4	37.027013	-88.924285	475.57	7.50	483.07

Name: 102

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.034498	-88.913072	379.74	7.50	387.24
2	37.034464	-88.909516	407.84	7.50	415.34
3	37.036271	-88.909510	422.93	7.50	430.43
4	37.036271	-88.913062	426.66	7.50	434.16

Name: 103

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036258	-88.913748	378.82	7.50	386.32
2	37.037654	-88.913705	406.07	7.50	413.57
3	37.037710	-88.910068	450.29	7.50	457.79
4	37.036267	-88.910057	423.72	7.50	431.22

Name: 104

Footprint area: 16.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036267	-88.910057	423.72	7.50	431.22
2	37.038048	-88.910074	446.66	7.50	454.16
3	37.038112	-88.906340	465.83	7.50	473.33
4	37.036237	-88.906367	433.86	7.50	441.36

Name: 105

Footprint area: 9.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036262	-88.909516	422.52	7.50	430.02
2	37.035389	-88.909521	427.77	7.50	435.27
3	37.035474	-88.904650	432.43	7.50	439.93
4	37.036245	-88.904655	452.77	7.50	460.27

Name: 106

Footprint area: 15.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037277	-88.906345	460.52	7.50	468.02
2	37.037277	-88.902161	453.49	7.50	460.99
3	37.035483	-88.902140	465.22	7.50	472.72
4	37.035483	-88.904672	433.17	7.50	440.67
5	37.036241	-88.904655	452.39	7.50	459.89
6	37.036237	-88.906383	433.99	7.50	441.49

Name: 107

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027531	-88.897859	439.14	7.50	446.64
2	37.027612	-88.893122	468.46	7.50	475.96
3	37.027072	-88.893149	452.57	7.50	460.07
4	37.027064	-88.893476	459.66	7.50	467.16
5	37.026760	-88.893476	448.24	7.50	455.74
6	37.026687	-88.895692	449.77	7.50	457.27
7	37.025779	-88.895692	450.21	7.50	457.71
8	37.025783	-88.897279	438.36	7.50	445.86
9	37.026640	-88.897290	444.59	7.50	452.09
10	37.026631	-88.897843	442.31	7.50	449.81

Name: 108

Footprint area: 7.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025466	-88.894957	459.28	7.50	466.78
2	37.025119	-88.894957	463.29	7.50	470.79
3	37.025145	-88.895842	456.82	7.50	464.32
4	37.024550	-88.895842	440.59	7.50	448.09
5	37.024494	-88.894222	454.32	7.50	461.82
6	37.023972	-88.894227	453.70	7.50	461.20
7	37.023980	-88.893363	457.74	7.50	465.24
8	37.024494	-88.893353	461.03	7.50	468.53
9	37.024494	-88.892682	453.78	7.50	461.28
10	37.025458	-88.892666	467.45	7.50	474.95

Name: 109

Footprint area: 20.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

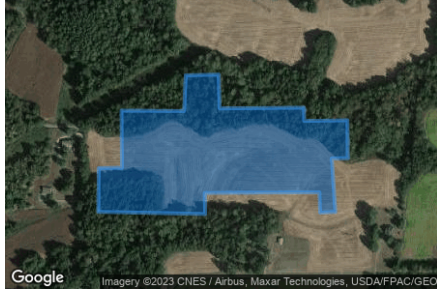
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024323	-88.897687	447.36	7.50	454.86
2	37.024336	-88.896958	452.34	7.50	459.84
3	37.023736	-88.896936	463.50	7.50	471.00
4	37.023749	-88.895064	475.99	7.50	483.49
5	37.023513	-88.895059	473.66	7.50	481.16
6	37.023526	-88.894098	480.00	7.50	487.50
7	37.022995	-88.894093	477.21	7.50	484.71
8	37.022854	-88.894088	467.01	7.50	474.51
9	37.022849	-88.894447	465.01	7.50	472.51
10	37.021903	-88.894367	458.27	7.50	465.77
11	37.021890	-88.894704	455.49	7.50	462.99
12	37.022250	-88.894721	461.39	7.50	468.89
13	37.022237	-88.897263	438.09	7.50	445.59
14	37.021864	-88.897258	436.54	7.50	444.04
15	37.021903	-88.899629	453.59	7.50	461.09
16	37.022678	-88.899618	450.59	7.50	458.09
17	37.022682	-88.899103	453.68	7.50	461.18
18	37.023697	-88.899114	450.96	7.50	458.46
19	37.023689	-88.897725	469.42	7.50	476.92

Name: 110

Footprint area: 18.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

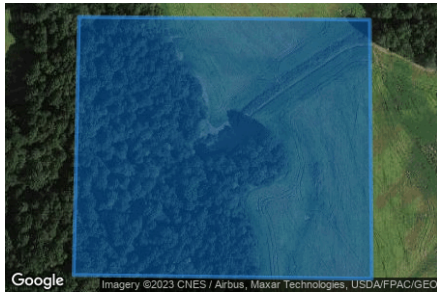
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027012	-88.924295	475.57	7.50	483.07
2	37.024716	-88.924354	500.53	7.50	508.03
3	37.024682	-88.921044	441.89	7.50	449.39
4	37.026986	-88.921065	405.73	7.50	413.23

Name: 111

Footprint area: 16.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

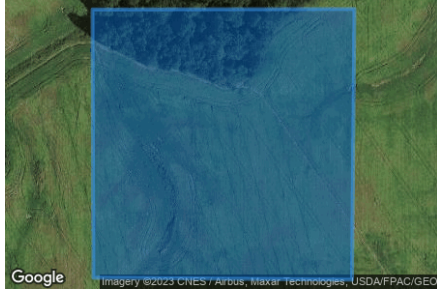
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027059	-88.921055	407.42	7.50	414.92
2	37.027063	-88.918147	414.56	7.50	422.06
3	37.024665	-88.918174	423.57	7.50	431.07
4	37.024682	-88.921044	441.89	7.50	449.39



Name: 112

Footprint area: 9.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027063	-88.918147	414.56	7.50	422.06
2	37.027093	-88.916044	395.18	7.50	402.68
3	37.026228	-88.916028	401.77	7.50	409.27
4	37.026237	-88.916817	408.26	7.50	415.76
5	37.024661	-88.916811	408.54	7.50	416.04
6	37.024669	-88.918185	423.84	7.50	431.34



Name: 113

Footprint area: 17.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024712	-88.924370	500.80	7.50	508.30
2	37.022524	-88.924381	458.49	7.50	465.99
3	37.022502	-88.921028	435.59	7.50	443.09
4	37.024678	-88.921022	441.52	7.50	449.02

Name: 114

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024682	-88.921039	441.89	7.50	449.39
2	37.024657	-88.918174	423.62	7.50	431.12
3	37.022507	-88.918185	426.22	7.50	433.72
4	37.022511	-88.921049	435.73	7.50	443.23

Name: 115

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024661	-88.918174	423.62	7.50	431.12
2	37.024674	-88.916827	408.64	7.50	416.14
3	37.020819	-88.916747	396.67	7.50	404.17
4	37.020793	-88.918163	414.15	7.50	421.65

Name: 116

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

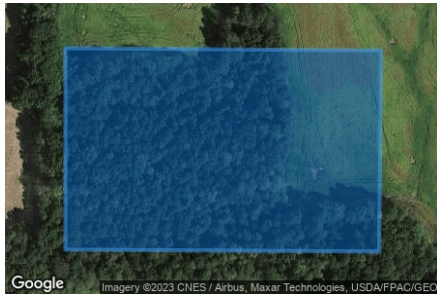
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022524	-88.924670	461.36	7.50	468.86
2	37.022502	-88.921167	439.11	7.50	446.61
3	37.020733	-88.921189	470.93	7.50	478.43
4	37.020750	-88.924670	494.17	7.50	501.67

Name: 117

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

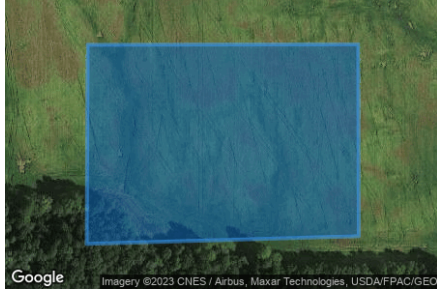
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022498	-88.921173	439.11	7.50	446.61
2	37.022502	-88.918169	426.07	7.50	433.57
3	37.020802	-88.918163	414.28	7.50	421.78
4	37.020733	-88.921183	470.20	7.50	477.70



2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Ceredo Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.041978	-88.896576	456.64	5.00	461.64
2	37.039854	-88.896662	466.14	5.00	471.14
3	37.039383	-88.896576	466.46	5.00	471.46
4	37.039083	-88.896190	466.08	5.00	471.08
5	37.038912	-88.895664	465.00	5.00	470.00
6	37.038878	-88.895107	459.47	5.00	464.47
7	37.038852	-88.888562	448.51	5.00	453.51
8	37.038809	-88.884893	441.28	5.00	446.28

Name: Davis Road north segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.034365	-88.901469	467.17	5.00	472.17
2	37.034748	-88.901405	473.42	5.00	478.42
3	37.035048	-88.901343	465.63	5.00	470.63
4	37.035433	-88.901279	465.38	5.00	470.38
5	37.035928	-88.901289	465.51	5.00	470.51
6	37.036388	-88.901281	463.03	5.00	468.03
7	37.036887	-88.901287	471.19	5.00	476.19

Name: Davis Road south segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.028190	-88.903323	442.11	5.00	447.11
2	37.027659	-88.903365	427.70	5.00	432.70
3	37.026661	-88.903395	399.96	5.00	404.96
4	37.025710	-88.903414	399.22	5.00	404.22
5	37.025025	-88.903441	417.06	5.00	422.06
6	37.024420	-88.903480	415.41	5.00	420.41
7	37.024206	-88.903287	413.49	5.00	418.49
8	37.024120	-88.903094	420.49	5.00	425.49
9	37.024163	-88.902075	433.01	5.00	438.01
10	37.023401	-88.900777	457.16	5.00	462.16
11	37.023401	-88.900294	454.34	5.00	459.34
12	37.023349	-88.900058	458.83	5.00	463.83
13	37.023204	-88.899961	460.98	5.00	465.98
14	37.021431	-88.899833	442.15	5.00	447.15
15	37.021268	-88.899639	456.35	5.00	461.35
16	37.020694	-88.897998	453.21	5.00	458.21
17	37.020694	-88.897773	458.98	5.00	463.98

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020732	-88.897526	458.31	5.00	463.31
2	37.020728	-88.896550	450.67	5.00	455.67
3	37.020767	-88.893556	466.86	5.00	471.86
4	37.020835	-88.890080	457.23	5.00	462.23
5	37.020852	-88.889511	451.91	5.00	456.91
6	37.020959	-88.889216	452.48	5.00	457.48
7	37.021169	-88.888991	454.88	5.00	459.88
8	37.021396	-88.888921	453.88	5.00	458.88
9	37.023345	-88.888776	468.05	5.00	473.05
10	37.024724	-88.888685	472.15	5.00	477.15
11	37.026596	-88.888567	464.35	5.00	469.35
12	37.027966	-88.888460	451.46	5.00	456.46
13	37.029534	-88.888337	445.16	5.00	450.16

Name: Hinkleville Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.030896	-88.932654	443.03	5.00	448.03
2	37.029800	-88.932815	449.09	5.00	454.09
3	37.028018	-88.933674	441.08	5.00	446.08
4	37.027359	-88.933845	433.82	5.00	438.82
5	37.025046	-88.933845	415.01	5.00	420.01
6	37.022862	-88.933824	431.33	5.00	436.33
7	37.020515	-88.933781	449.18	5.00	454.18
8	37.019907	-88.933706	456.60	5.00	461.60
9	37.017225	-88.932923	466.16	5.00	471.16

Name: Randy Williams Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035504	-88.932272	436.52	5.00	441.52
2	37.035260	-88.931534	429.65	5.00	434.65
3	37.034877	-88.930375	425.36	5.00	430.36
4	37.034894	-88.930169	425.24	5.00	430.24
5	37.034990	-88.930067	424.41	5.00	429.41
6	37.035213	-88.929946	427.76	5.00	432.76
7	37.035294	-88.929831	421.73	5.00	426.73
8	37.035344	-88.926974	399.71	5.00	404.71
9	37.035376	-88.925234	389.46	5.00	394.46
10	37.035393	-88.924292	385.63	5.00	390.63
11	37.035350	-88.923766	382.47	5.00	387.47
12	37.035309	-88.923450	389.29	5.00	394.29

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.016411	-88.935586	473.40	16.00	489.40
OP 3	37.018141	-88.933559	457.09	16.00	473.09
OP 4	37.018869	-88.936809	460.16	16.00	476.16
OP 5	37.020959	-88.934353	460.29	16.00	476.29
OP 6	37.011607	-88.932428	473.59	16.00	489.59
OP 7	37.012110	-88.932313	472.59	16.00	488.59
OP 8	37.012421	-88.930593	468.74	16.00	484.74
OP 9	37.014078	-88.933142	470.26	16.00	486.26
OP 10	37.038117	-88.900931	462.68	16.00	478.68
OP 11	37.036139	-88.900330	464.55	16.00	480.55
OP 12	37.034418	-88.902304	465.01	16.00	481.01
OP 13	37.024478	-88.902358	435.09	16.00	451.09
OP 14	37.023129	-88.900276	459.28	16.00	475.28
OP 15	37.022276	-88.900749	441.74	16.00	457.74
OP 16	37.020452	-88.899150	443.08	16.00	459.08
OP 17	37.021548	-88.893190	473.39	16.00	489.39
OP 18	37.020482	-88.890342	455.35	16.00	471.35
OP 19	37.023223	-88.888421	469.18	16.00	485.18
OP 20	37.023617	-88.888400	468.22	16.00	484.22
OP 21	37.026624	-88.888013	466.30	16.00	482.30
OP 22	37.027472	-88.887949	471.05	16.00	487.05
OP 23	37.028465	-88.887461	468.91	16.00	484.91
OP 24	37.031459	-88.886254	458.87	16.00	474.87
OP 25	37.011508	-88.914846	455.12	16.00	471.12
OP 26	37.010099	-88.913934	472.36	16.00	488.36
OP 27	37.012254	-88.910388	465.32	16.00	481.32
OP 28	37.013997	-88.911059	446.09	16.00	462.09
OP 29	37.021321	-88.896259	448.33	16.00	464.33
OP 30	37.018387	-88.897455	455.43	16.00	471.43
OP 31	37.006758	-88.933691	477.67	16.00	493.67
OP 32	37.006955	-88.932248	482.92	16.00	498.92
OP 33	37.007070	-88.931229	478.67	16.00	494.67
OP 34	37.007764	-88.932318	479.71	16.00	495.71
OP 35	37.008437	-88.932608	478.17	16.00	494.17
OP 36	36.993735	-88.942986	481.27	16.00	497.27
OP 37	36.996539	-88.933851	488.27	16.00	504.27
OP 38	36.998814	-88.933478	483.80	16.00	499.80
OP 39	36.998319	-88.933521	487.33	16.00	503.33
OP 40	36.999444	-88.933577	481.91	16.00	497.91

1-ATCT map image



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	
101	SA tracking	SA tracking	686	0	-	-
102	SA tracking	SA tracking	1,454	0	-	-
103	SA tracking	SA tracking	1,936	0	-	-
104	SA tracking	SA tracking	1,334	0	-	-
105	SA tracking	SA tracking	1,101	0	-	-
106	SA tracking	SA tracking	1,589	0	-	-
107	SA tracking	SA tracking	2,102	571	-	-
108	SA tracking	SA tracking	1,721	1,234	-	-
109	SA tracking	SA tracking	10,033	8,729	-	-
110	SA tracking	SA tracking	3,629	0	-	-
111	SA tracking	SA tracking	2,961	0	-	-
112	SA tracking	SA tracking	0	0	-	-
113	SA tracking	SA tracking	1,524	0	-	-
114	SA tracking	SA tracking	2,512	0	-	-
115	SA tracking	SA tracking	4,076	0	-	-
116	SA tracking	SA tracking	2,988	0	-	-
117	SA tracking	SA tracking	2,532	0	-	-

Distinct glare per month

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

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
101 (green)	0	0	0	32	140	15	110	83	0	0	0	0
101 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
102 (green)	0	0	156	100	277	277	283	139	190	32	0	0
102 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
103 (green)	0	0	46	287	336	360	357	288	147	0	0	0
103 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
104 (green)	0	0	49	188	246	248	253	205	115	0	0	0
104 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
105 (green)	0	0	91	81	269	134	253	127	146	0	0	0
105 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
106 (green)	0	0	84	125	310	333	299	156	163	0	0	0
106 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
107 (green)	0	0	0	101	209	45	129	251	33	0	0	0
107 (yellow)	0	0	0	0	122	123	158	6	0	0	0	0
108 (green)	0	0	0	24	58	78	97	56	0	0	0	0
108 (yellow)	0	0	0	14	244	354	322	75	0	0	0	0
109 (green)	39	49	91	78	171	420	298	92	83	70	39	72
109 (yellow)	325	418	482	518	444	116	272	559	477	474	372	230
110 (green)	413	220	0	22	0	0	0	13	7	132	361	435
110 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
111 (green)	240	140	37	107	31	0	5	87	101	191	219	256
111 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
113 (green)	90	61	127	200	0	0	0	118	195	33	105	73
113 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
114 (green)	226	127	195	190	0	0	0	114	209	129	221	226
114 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
115 (green)	277	253	291	285	23	0	0	196	282	280	270	279
115 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
116 (green)	323	242	231	59	0	0	0	0	200	241	313	337
116 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
117 (green)	332	257	245	74	0	0	0	4	218	254	325	371
117 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

101 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0

OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	377	0
Route: Gage Road	309	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

101: Barkley Regional Airport Runway 14

No glare found

101: Barkley Regional Airport Runway 23

No glare found

101: Barkley Regional Airport Runway 32

No glare found

101: Barkley Regional Airport Runway 5

No glare found

101: 1-ATCT

No glare found

101: OP 2

No glare found

101: OP 3

No glare found

101: OP 4

No glare found

101: OP 5

No glare found

101: OP 6

No glare found

101: OP 7

No glare found

101: OP 8

No glare found

101: OP 9

No glare found

101: OP 10

No glare found

101: OP 11

No glare found

101: OP 12

No glare found

101: OP 13

No glare found

101: OP 14

No glare found

101: OP 15

No glare found

101: OP 16

No glare found

101: OP 17

No glare found

101: OP 18

No glare found

101: OP 19

No glare found

101: OP 20

No glare found

101: OP 21

No glare found

101: OP 22

No glare found

101: OP 23

No glare found

101: OP 24

No glare found

101: OP 25

No glare found

101: OP 26

No glare found

101: OP 27

No glare found

101: OP 28

No glare found

101: OP 29

No glare found

101: OP 30

No glare found

101: OP 31

No glare found

101: OP 32

No glare found

101: OP 33

No glare found

101: OP 34

No glare found

101: OP 35

No glare found

101: OP 36

No glare found

101: OP 37

No glare found

101: OP 38

No glare found

101: OP 39

No glare found

101: OP 40

No glare found

101: Ceredo Road

No glare found

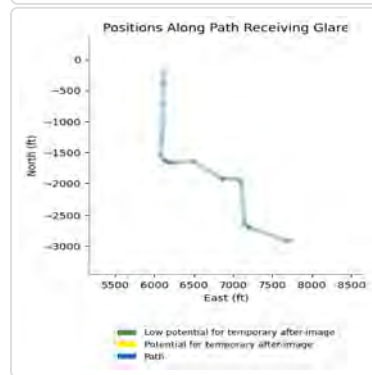
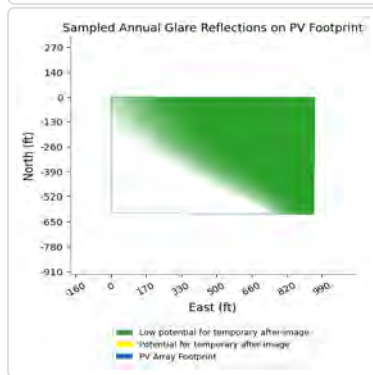
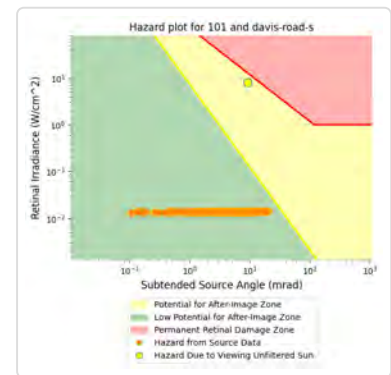
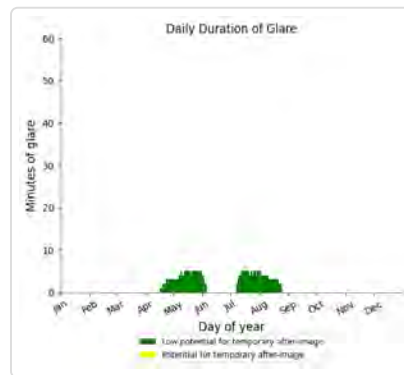
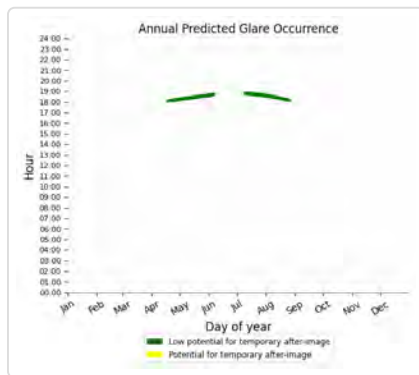
101: Davis Road north segment

No glare found

101: Davis Road south segment

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

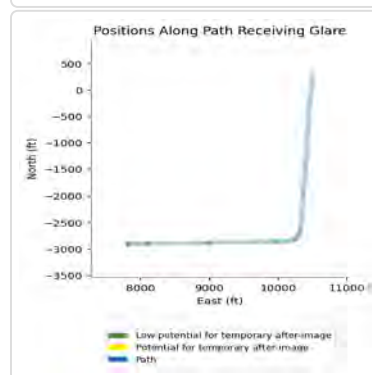
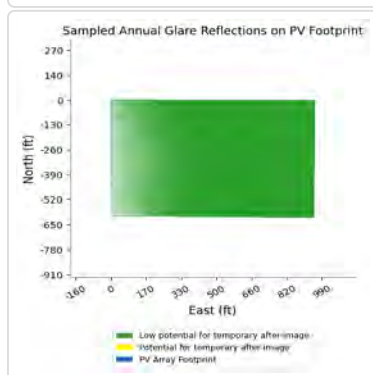
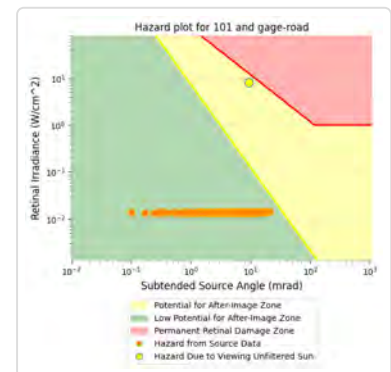
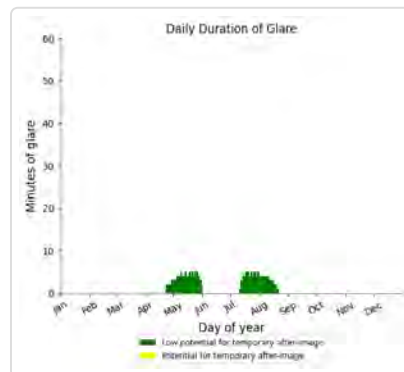
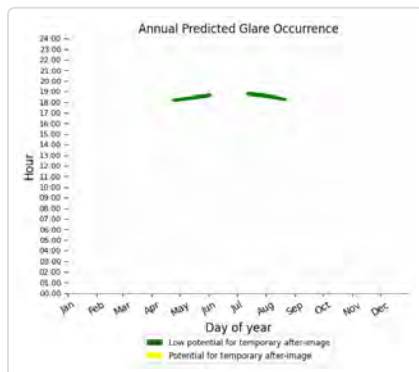
- 377 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



101: Gage Road

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

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



101: Hinkleville Road

No glare found

101: Randy Williams Road

No glare found

102 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0

OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0
Route: Hinkleville Road	1007	0
Route: Randy Williams Road	447	0

102: Barkley Regional Airport Runway 14

No glare found

102: Barkley Regional Airport Runway 23

No glare found

102: Barkley Regional Airport Runway 32

No glare found

102: Barkley Regional Airport Runway 5

No glare found

102: 1-ATCT

No glare found

102: OP 2

No glare found

102: OP 3

No glare found

102: OP 4

No glare found

102: OP 5

No glare found

102: OP 6

No glare found

102: OP 7

No glare found

102: OP 8

No glare found

102: OP 9

No glare found

102: OP 10

No glare found

102: OP 11

No glare found

102: OP 12

No glare found

102: OP 13

No glare found

102: OP 14

No glare found

102: OP 15

No glare found

102: OP 16

No glare found

102: OP 17

No glare found

102: OP 18

No glare found

102: OP 19

No glare found

102: OP 20

No glare found

102: OP 21

No glare found

102: OP 22

No glare found

102: OP 23

No glare found

102: OP 24

No glare found

102: OP 25

No glare found

102: OP 26

No glare found

102: OP 27

No glare found

102: OP 28

No glare found

102: OP 29

No glare found

102: OP 30

No glare found

102: OP 31

No glare found

102: OP 32

No glare found

102: OP 33

No glare found

102: OP 34

No glare found

102: OP 35

No glare found

102: OP 36

No glare found

102: OP 37

No glare found

102: OP 38

No glare found

102: OP 39

No glare found

102: OP 40

No glare found

102: Ceredo Road

No glare found

102: Davis Road north segment

No glare found

102: Davis Road south segment

No glare found

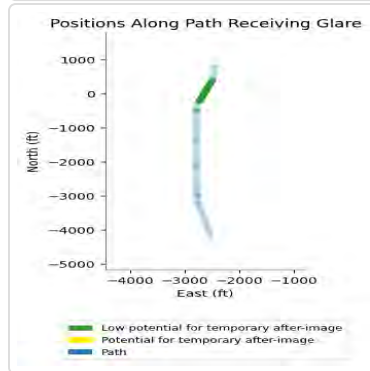
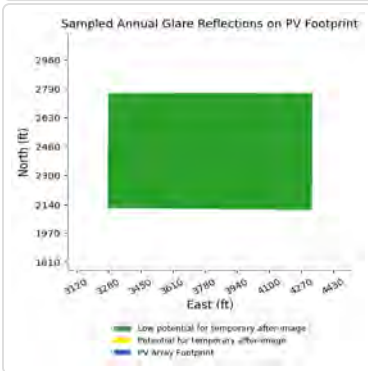
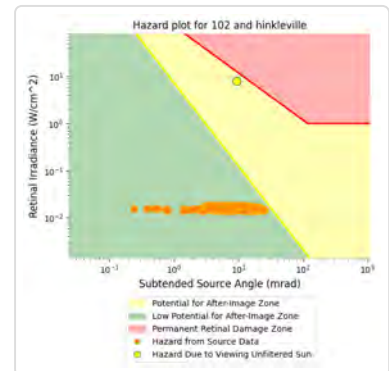
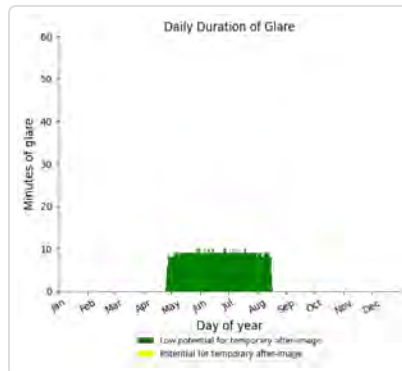
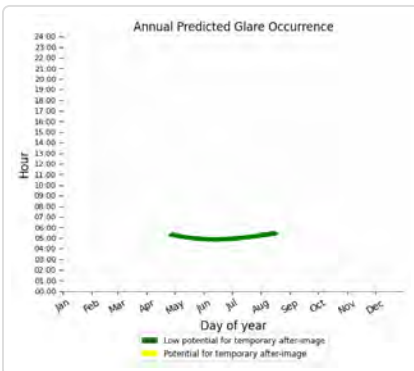
102: Gage Road

No glare found

102: Hinkleville Road

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

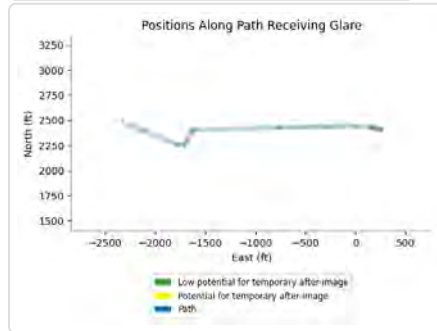
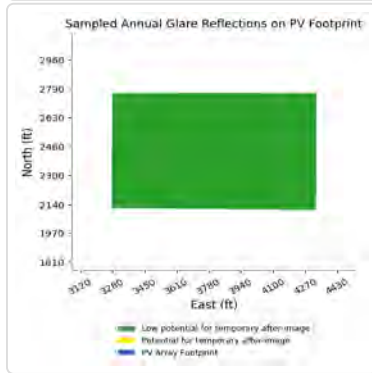
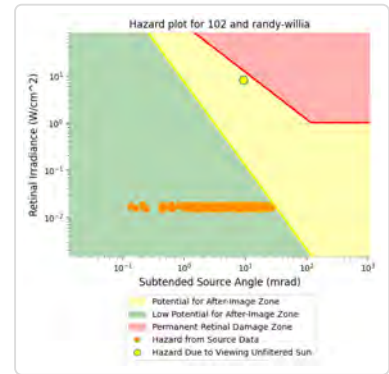
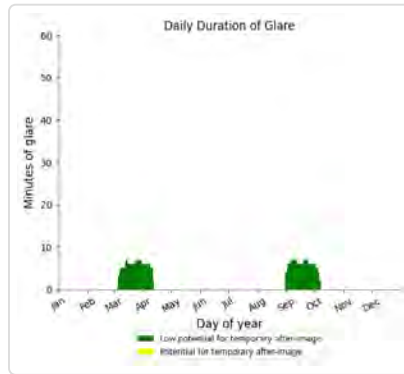
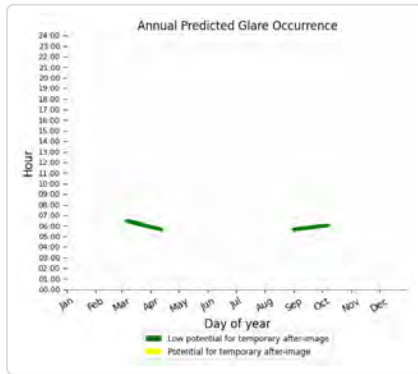
- 1,007 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



102: Randy Williams Road

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

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



103 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0

OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0
Route: Hinkleville Road	1142	0
Route: Randy Williams Road	794	0

103: Barkley Regional Airport Runway 14

No glare found

103: Barkley Regional Airport Runway 23

No glare found

103: Barkley Regional Airport Runway 32

No glare found

103: Barkley Regional Airport Runway 5

No glare found

103: 1-ATCT

No glare found

103: OP 2

No glare found

103: OP 3
No glare found

103: OP 4
No glare found

103: OP 5
No glare found

103: OP 6
No glare found

103: OP 7
No glare found

103: OP 8
No glare found

103: OP 9
No glare found

103: OP 10
No glare found

103: OP 11
No glare found

103: OP 12
No glare found

103: OP 13
No glare found

103: OP 14
No glare found

103: OP 15
No glare found

103: OP 16
No glare found

103: OP 17
No glare found

103: OP 18

No glare found

103: OP 19

No glare found

103: OP 20

No glare found

103: OP 21

No glare found

103: OP 22

No glare found

103: OP 23

No glare found

103: OP 24

No glare found

103: OP 25

No glare found

103: OP 26

No glare found

103: OP 27

No glare found

103: OP 28

No glare found

103: OP 29

No glare found

103: OP 30

No glare found

103: OP 31

No glare found

103: OP 32

No glare found

103: OP 33

No glare found

103: OP 34

No glare found

103: OP 35

No glare found

103: OP 36

No glare found

103: OP 37

No glare found

103: OP 38

No glare found

103: OP 39

No glare found

103: OP 40

No glare found

103: Ceredo Road

No glare found

103: Davis Road north segment

No glare found

103: Davis Road south segment

No glare found

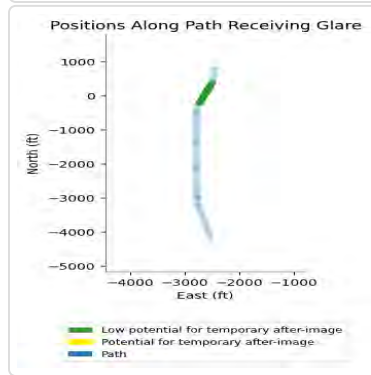
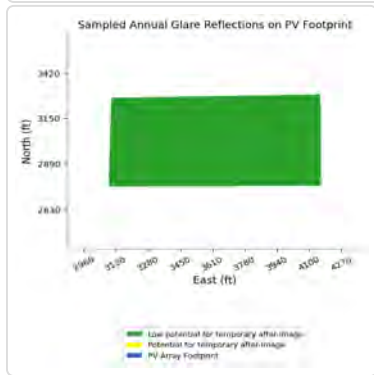
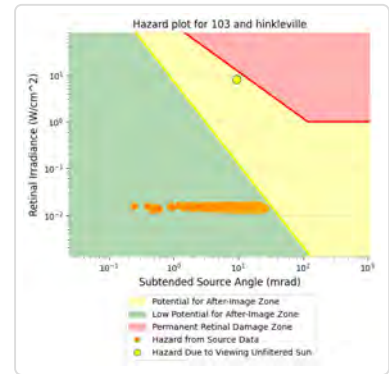
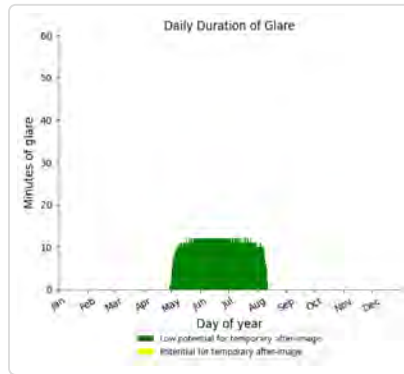
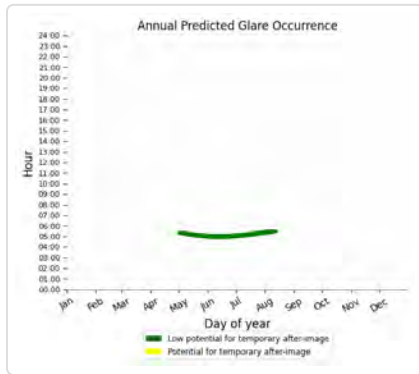
103: Gage Road

No glare found

103: Hinkleville Road

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

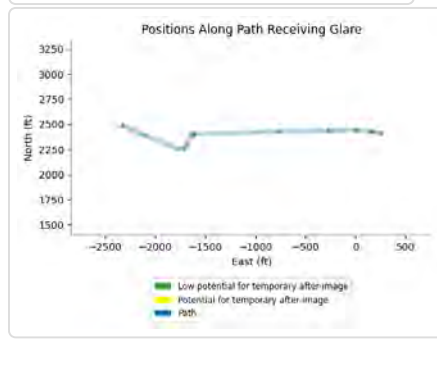
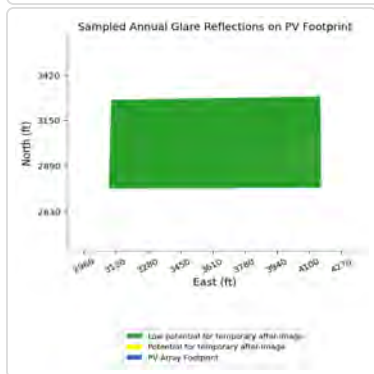
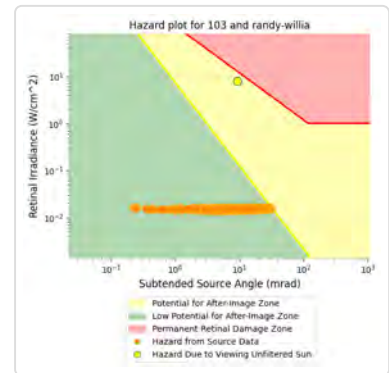
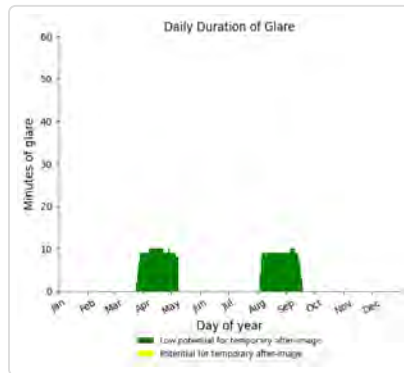
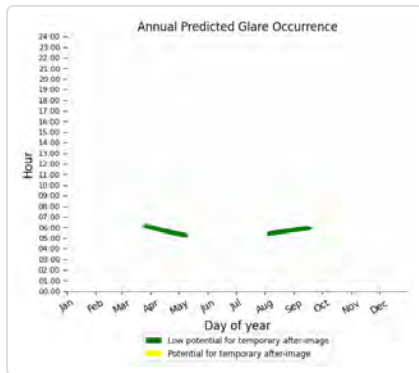
- 1,142 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



103: Randy Williams Road

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

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



104 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0

Route: Gage Road	0	0
Route: Hinkleville Road	898	0
Route: Randy Williams Road	436	0

104: Barkley Regional Airport Runway 14

No glare found

104: Barkley Regional Airport Runway 23

No glare found

104: Barkley Regional Airport Runway 32

No glare found

104: Barkley Regional Airport Runway 5

No glare found

104: 1-ATCT

No glare found

104: OP 2

No glare found

104: OP 3

No glare found

104: OP 4

No glare found

104: OP 5

No glare found

104: OP 6

No glare found

104: OP 7

No glare found

104: OP 8

No glare found

104: OP 9

No glare found

104: OP 10

No glare found

104: OP 11

No glare found

104: OP 12

No glare found

104: OP 13

No glare found

104: OP 14

No glare found

104: OP 15

No glare found

104: OP 16

No glare found

104: OP 17

No glare found

104: OP 18

No glare found

104: OP 19

No glare found

104: OP 20

No glare found

104: OP 21

No glare found

104: OP 22

No glare found

104: OP 23

No glare found

104: OP 24

No glare found

104: OP 25

No glare found

104: OP 26

No glare found

104: OP 27

No glare found

104: OP 28

No glare found

104: OP 29

No glare found

104: OP 30

No glare found

104: OP 31

No glare found

104: OP 32

No glare found

104: OP 33

No glare found

104: OP 34

No glare found

104: OP 35

No glare found

104: OP 36

No glare found

104: OP 37

No glare found

104: OP 38

No glare found

104: OP 39

No glare found

104: OP 40

No glare found

104: Ceredo Road

No glare found

104: Davis Road north segment

No glare found

104: Davis Road south segment

No glare found

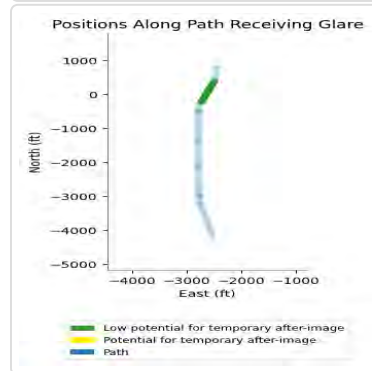
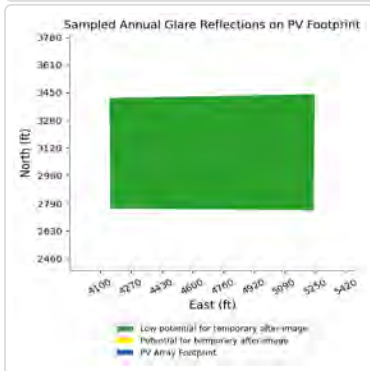
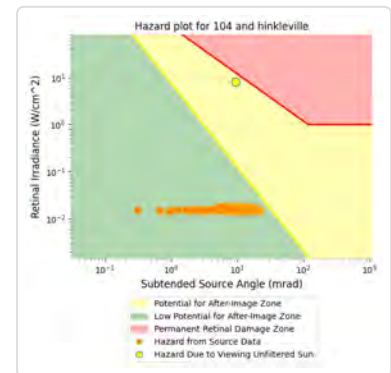
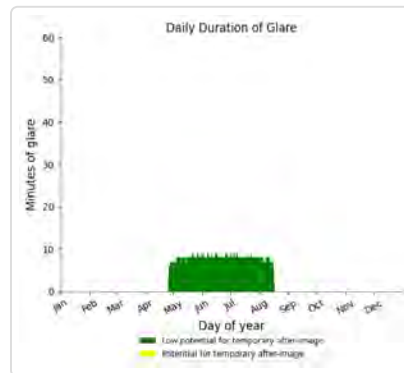
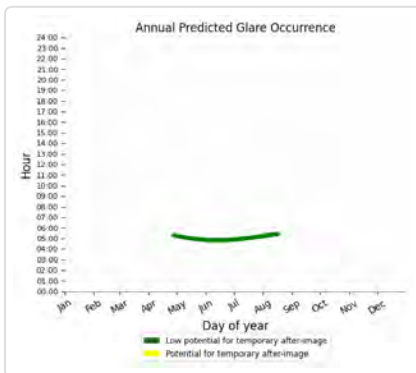
104: Gage Road

No glare found

104: Hinkleville Road

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

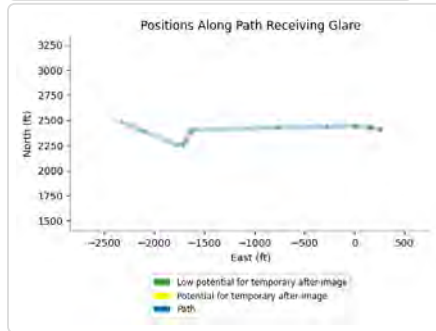
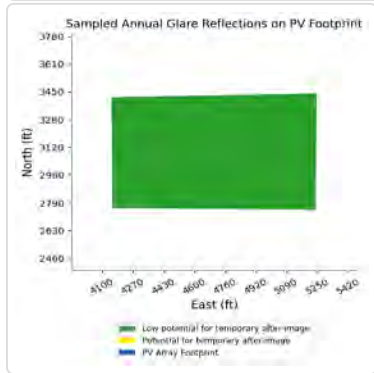
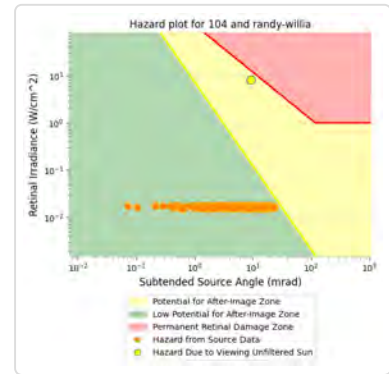
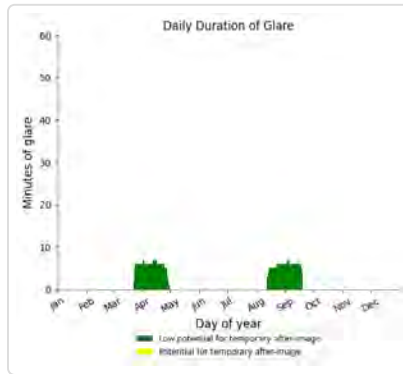
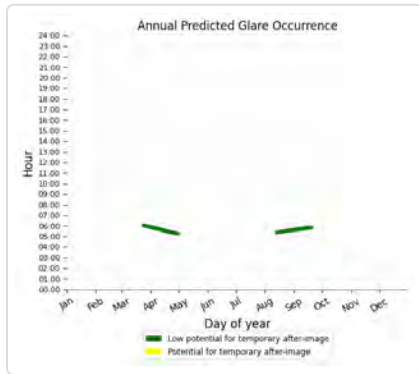
- 898 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



104: Randy Williams Road

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

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



105 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0

OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0
Route: Hinkleville Road	813	0
Route: Randy Williams Road	288	0

105: Barkley Regional Airport Runway 14

No glare found

105: Barkley Regional Airport Runway 23

No glare found

105: Barkley Regional Airport Runway 32

No glare found

105: Barkley Regional Airport Runway 5

No glare found

105: 1-ATCT

No glare found

105: OP 2

No glare found

105: OP 3
No glare found

105: OP 4
No glare found

105: OP 5
No glare found

105: OP 6
No glare found

105: OP 7
No glare found

105: OP 8
No glare found

105: OP 9
No glare found

105: OP 10
No glare found

105: OP 11
No glare found

105: OP 12
No glare found

105: OP 13
No glare found

105: OP 14
No glare found

105: OP 15
No glare found

105: OP 16
No glare found

105: OP 17
No glare found

105: OP 18

No glare found

105: OP 19

No glare found

105: OP 20

No glare found

105: OP 21

No glare found

105: OP 22

No glare found

105: OP 23

No glare found

105: OP 24

No glare found

105: OP 25

No glare found

105: OP 26

No glare found

105: OP 27

No glare found

105: OP 28

No glare found

105: OP 29

No glare found

105: OP 30

No glare found

105: OP 31

No glare found

105: OP 32

No glare found

105: OP 33

No glare found

105: OP 34

No glare found

105: OP 35

No glare found

105: OP 36

No glare found

105: OP 37

No glare found

105: OP 38

No glare found

105: OP 39

No glare found

105: OP 40

No glare found

105: Ceredo Road

No glare found

105: Davis Road north segment

No glare found

105: Davis Road south segment

No glare found

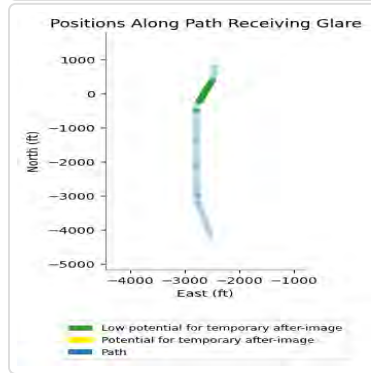
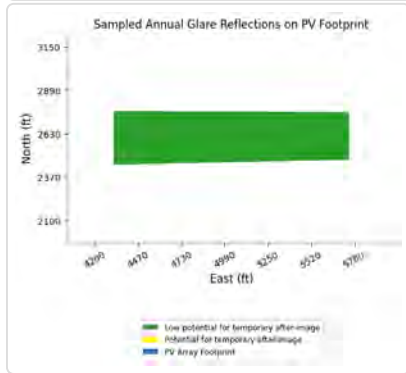
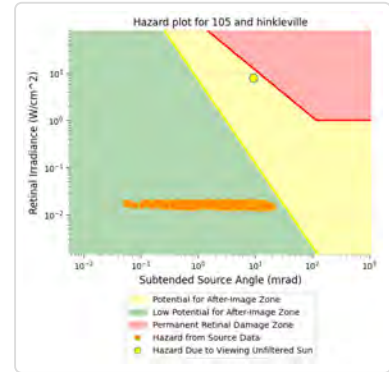
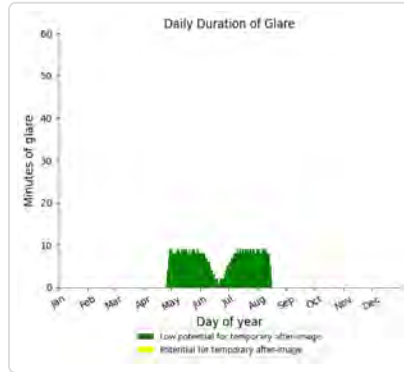
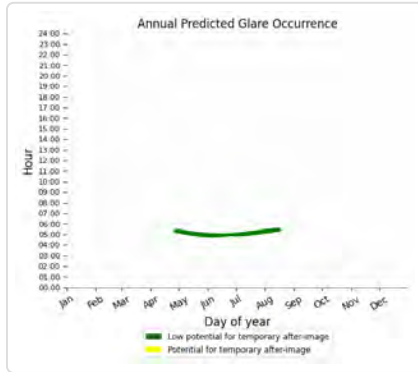
105: Gage Road

No glare found

105: Hinkleville Road

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

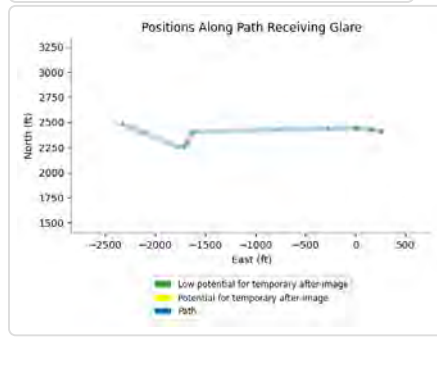
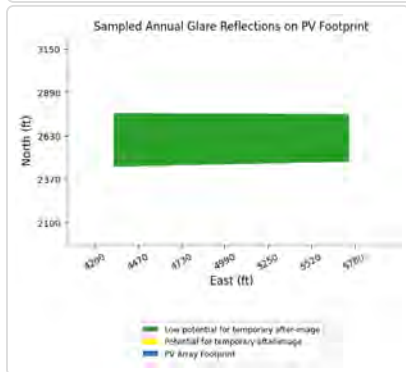
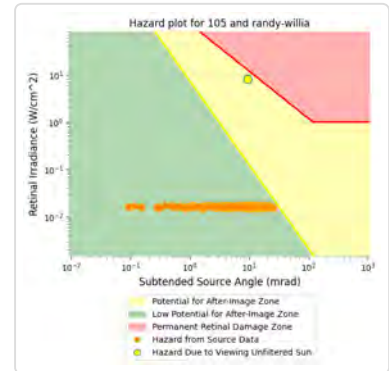
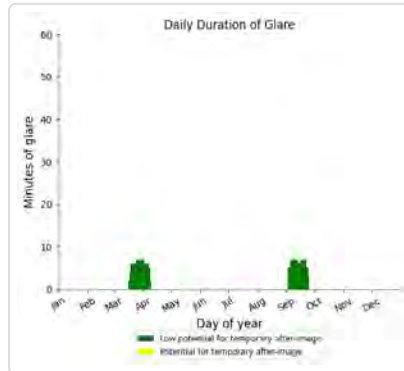
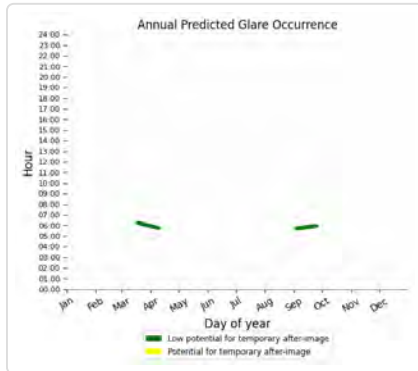
- 813 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



105: Randy Williams Road

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

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



Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	179	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	83	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0

Route: Gage Road	0	0
Route: Hinkleville Road	944	0
Route: Randy Williams Road	383	0

106: Barkley Regional Airport Runway 14

No glare found

106: Barkley Regional Airport Runway 23

No glare found

106: Barkley Regional Airport Runway 32

No glare found

106: Barkley Regional Airport Runway 5

No glare found

106: 1-ATCT

No glare found

106: OP 2

No glare found

106: OP 3

No glare found

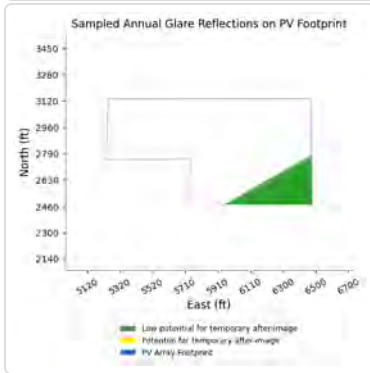
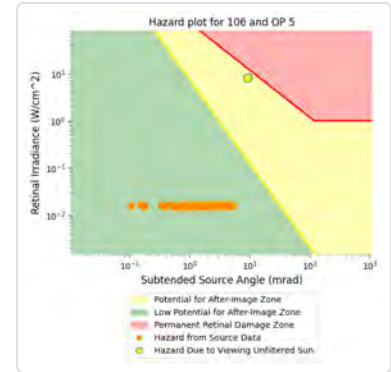
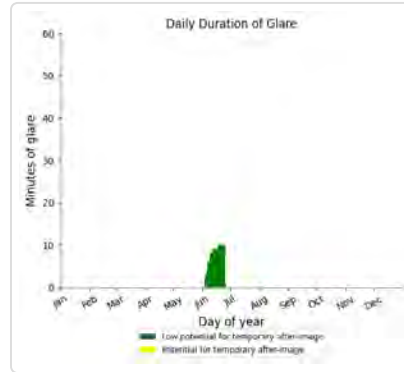
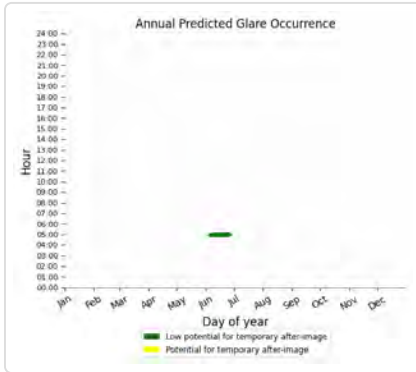
106: OP 4

No glare found

106: OP 5

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

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



106: OP 6

No glare found

106: OP 7

No glare found

106: OP 8

No glare found

106: OP 9

No glare found

106: OP 10

No glare found

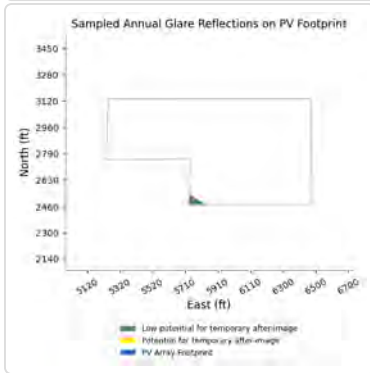
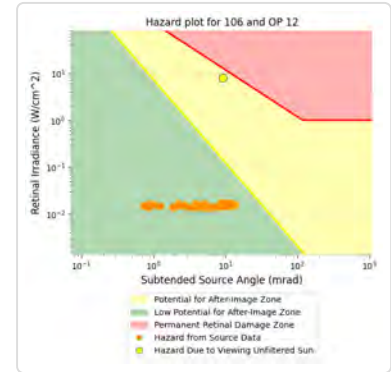
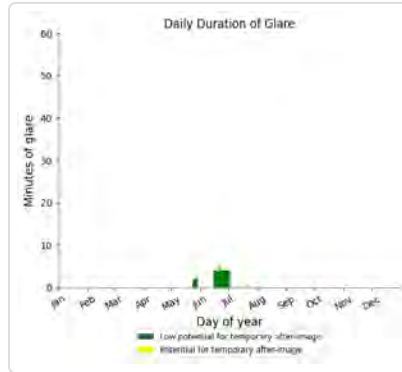
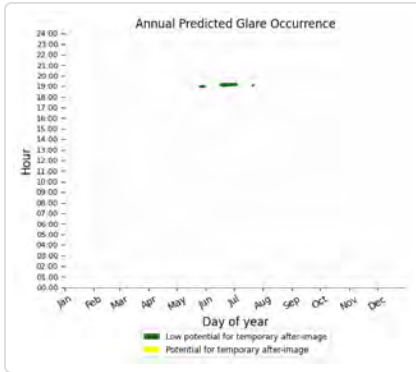
106: OP 11

No glare found

106: OP 12

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

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



106: OP 13

No glare found

106: OP 14

No glare found

106: OP 15

No glare found

106: OP 16

No glare found

106: OP 17

No glare found

106: OP 18

No glare found

106: OP 19

No glare found

106: OP 20

No glare found

106: OP 21

No glare found

106: OP 22

No glare found

106: OP 23

No glare found

106: OP 24

No glare found

106: OP 25

No glare found

106: OP 26

No glare found

106: OP 27

No glare found

106: OP 28

No glare found

106: OP 29

No glare found

106: OP 30

No glare found

106: OP 31

No glare found

106: OP 32

No glare found

106: OP 33

No glare found

106: OP 34

No glare found

106: OP 35

No glare found

106: OP 36

No glare found

106: OP 37

No glare found

106: OP 38

No glare found

106: OP 39

No glare found

106: OP 40

No glare found

106: Ceredo Road

No glare found

106: Davis Road north segment

No glare found

106: Davis Road south segment

No glare found

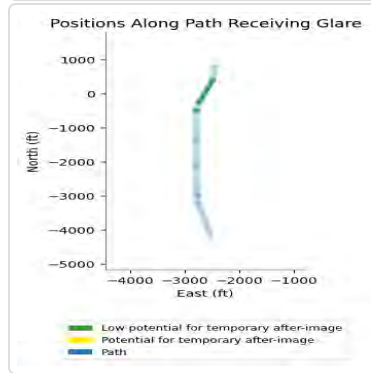
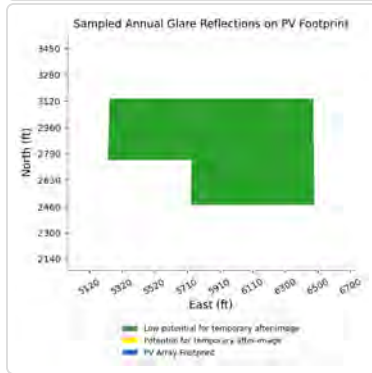
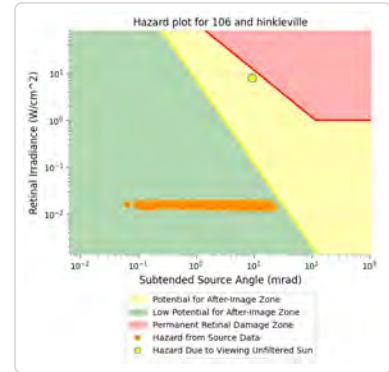
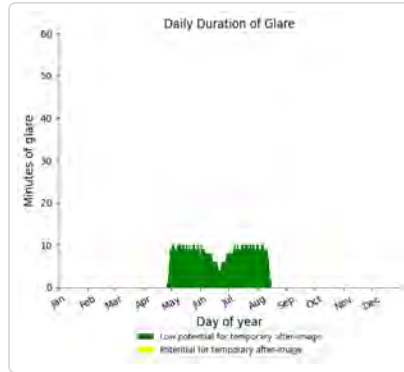
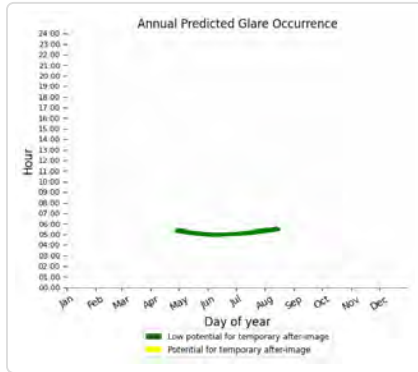
106: Gage Road

No glare found

106: Hinkleville Road

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

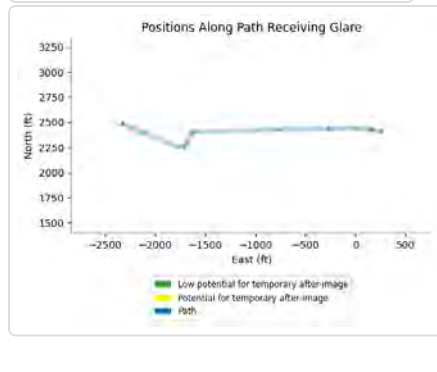
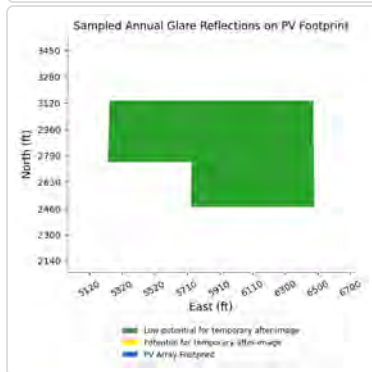
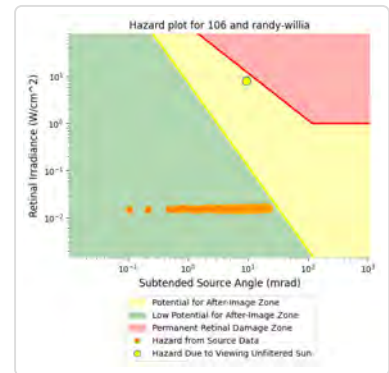
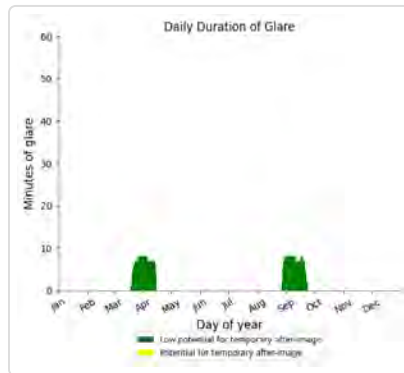
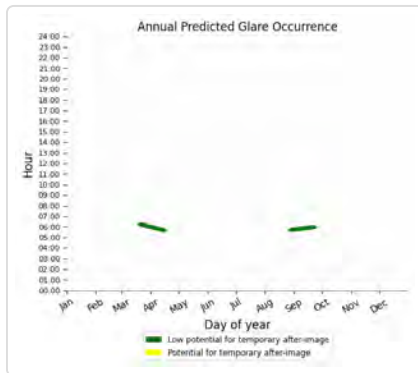
- 944 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



106: Randy Williams Road

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

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



Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	231	0
OP: OP 3	149	0
OP: OP 4	145	0
OP: OP 5	119	0
OP: OP 6	97	0
OP: OP 7	125	0
OP: OP 8	109	0
OP: OP 9	232	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	269	198
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	626	373

Route: Gage Road	0	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

107: Barkley Regional Airport Runway 14

No glare found

107: Barkley Regional Airport Runway 23

No glare found

107: Barkley Regional Airport Runway 32

No glare found

107: Barkley Regional Airport Runway 5

No glare found

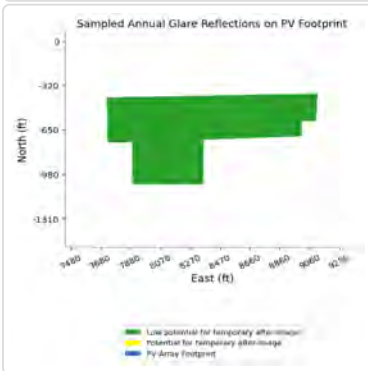
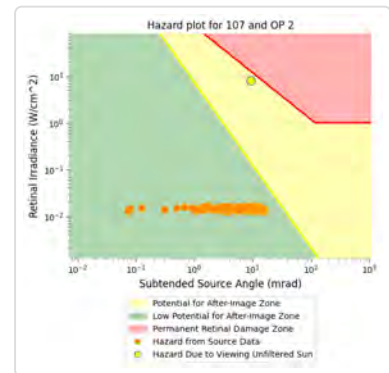
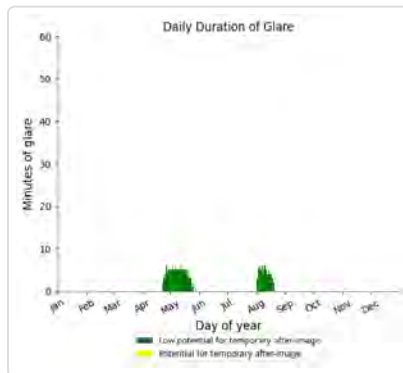
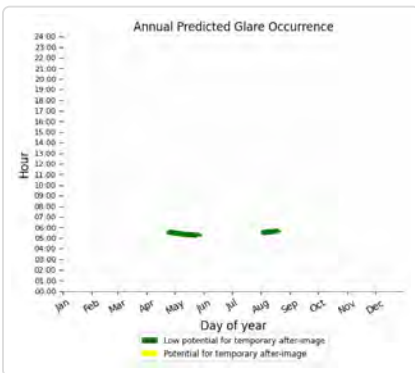
107: 1-ATCT

No glare found

107: OP 2

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

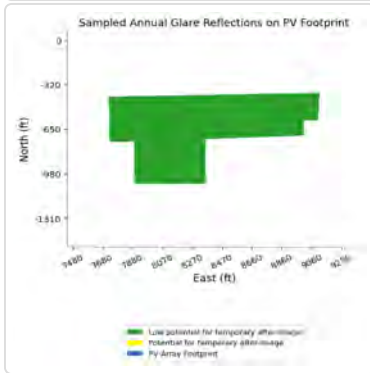
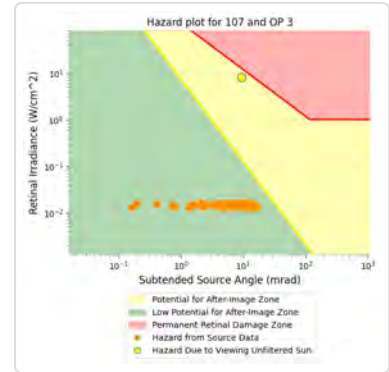
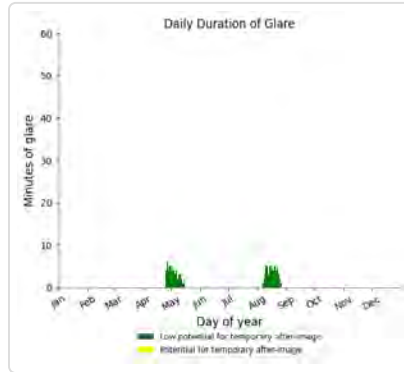
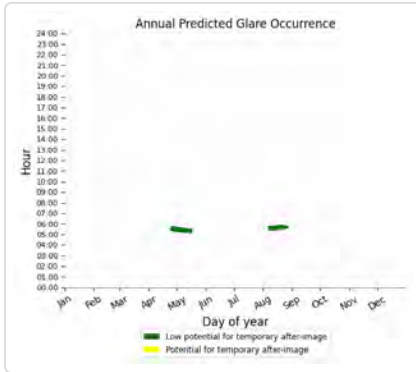
- 231 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 3

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

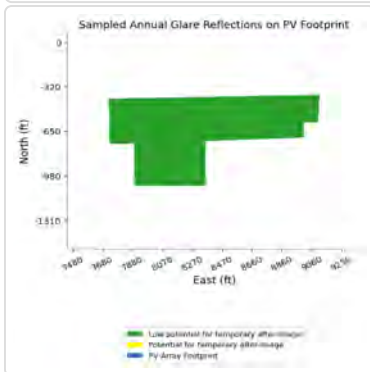
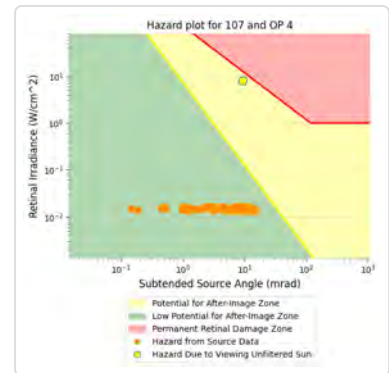
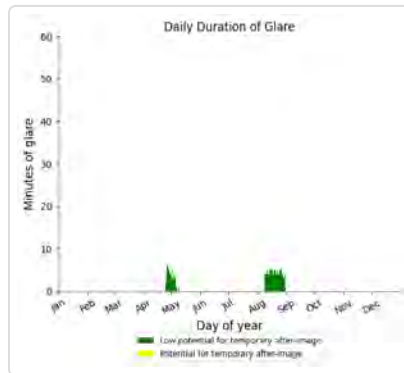
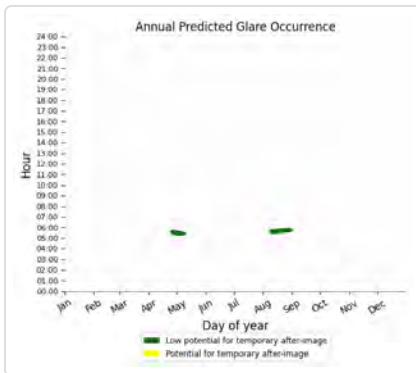
- 149 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 4

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

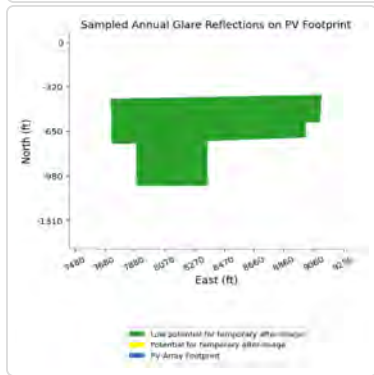
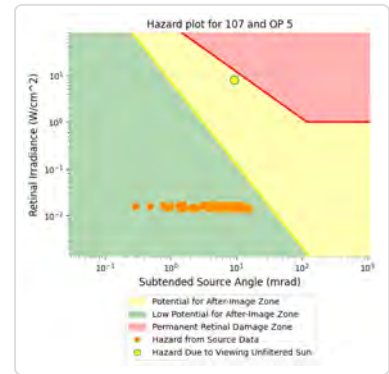
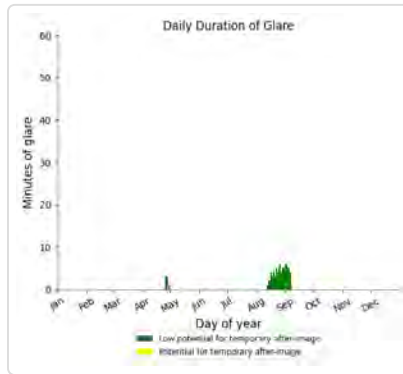
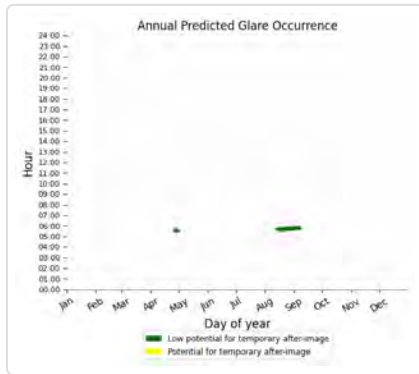
- 145 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 5

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

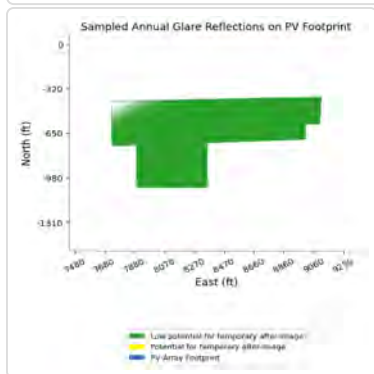
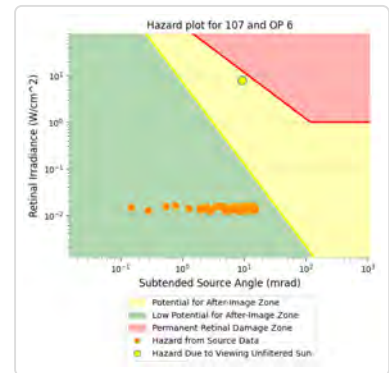
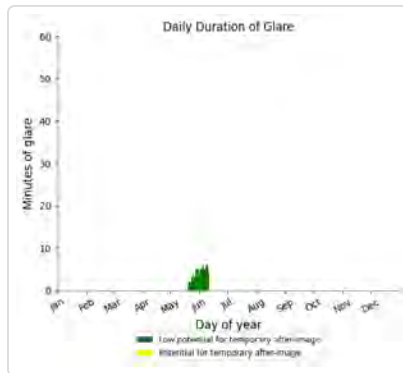
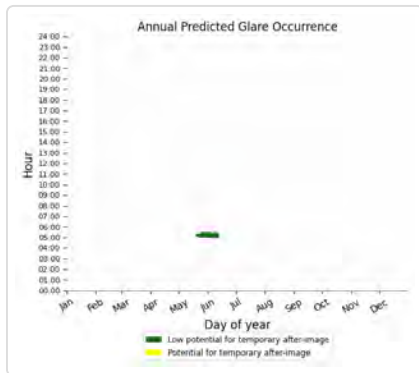
- 119 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 6

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

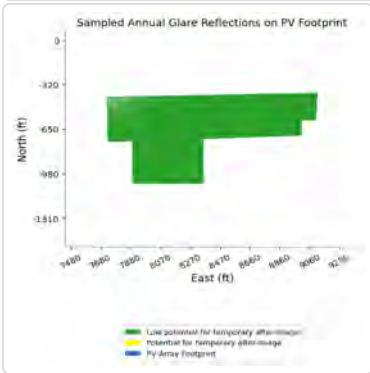
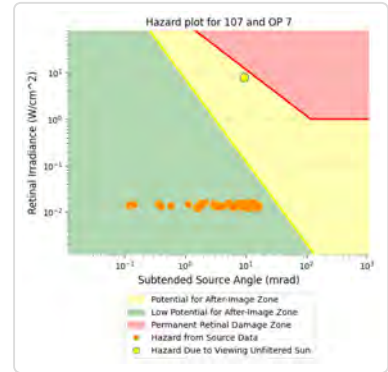
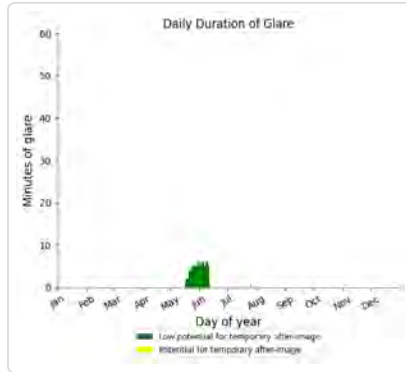
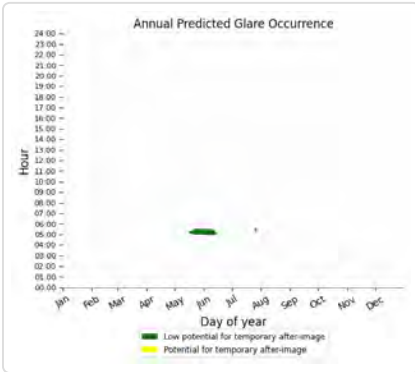
- 97 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 7

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

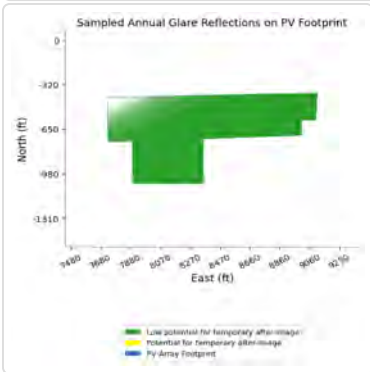
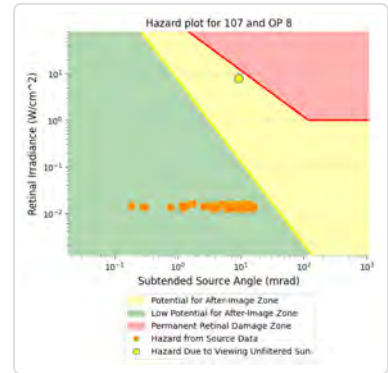
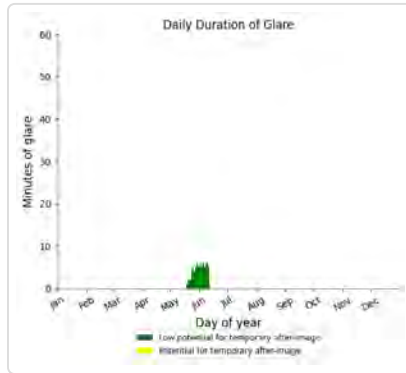
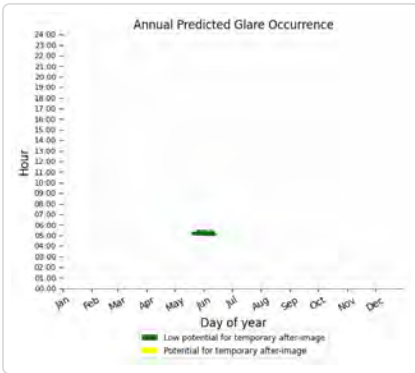
- 125 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 8

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

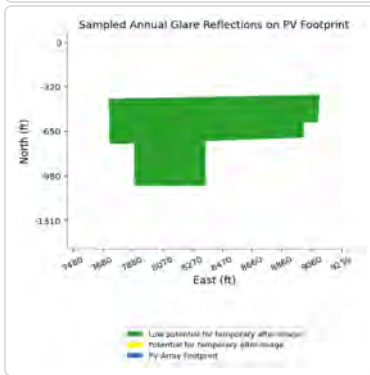
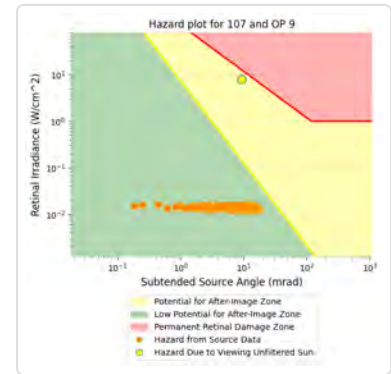
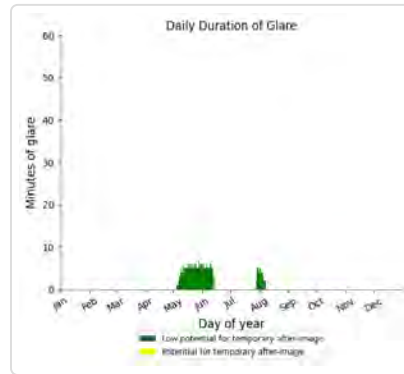
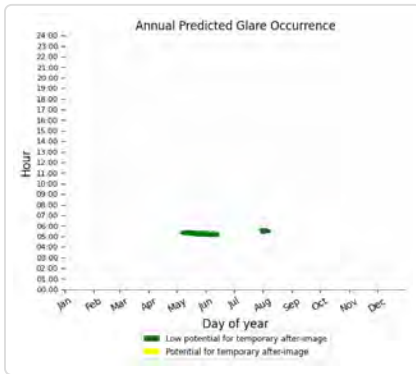
- 109 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 9

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

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



107: OP 10

No glare found

107: OP 11

No glare found

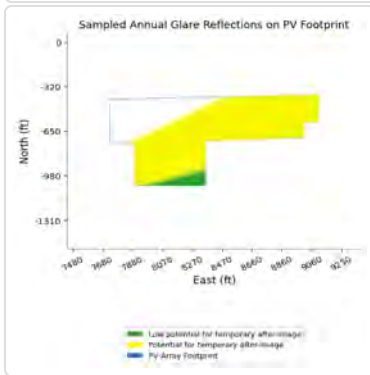
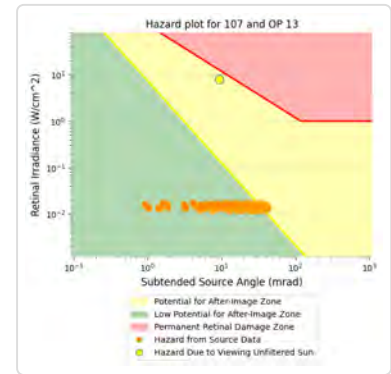
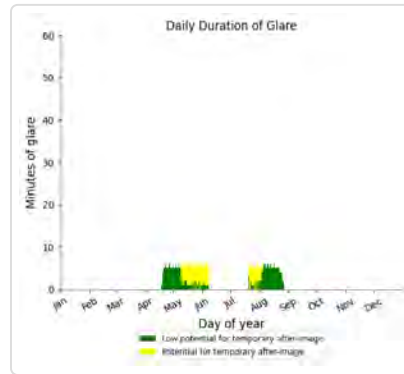
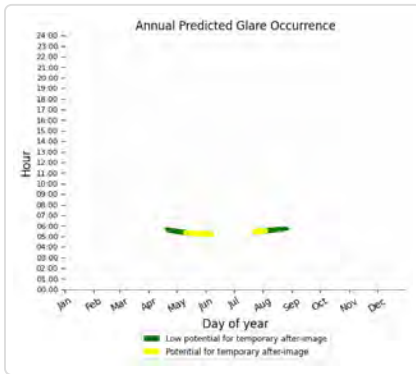
107: OP 12

No glare found

107: OP 13

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

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



107: OP 14

No glare found

107: OP 15

No glare found

107: OP 16

No glare found

107: OP 17

No glare found

107: OP 18

No glare found

107: OP 19

No glare found

107: OP 20

No glare found

107: OP 21

No glare found

107: OP 22

No glare found

107: OP 23

No glare found

107: OP 24

No glare found

107: OP 25

No glare found

107: OP 26

No glare found

107: OP 27

No glare found

107: OP 28

No glare found

107: OP 29

No glare found

107: OP 30

No glare found

107: OP 31

No glare found

107: OP 32

No glare found

107: OP 33

No glare found

107: OP 34

No glare found

107: OP 35

No glare found

107: OP 36

No glare found

107: OP 37

No glare found

107: OP 38

No glare found

107: OP 39

No glare found

107: OP 40

No glare found

107: Ceredo Road

No glare found

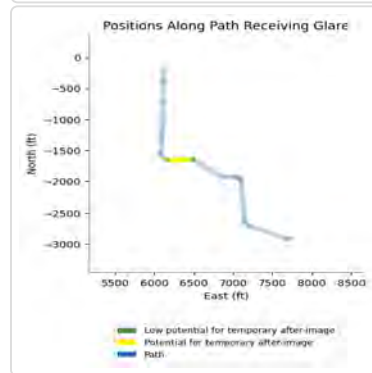
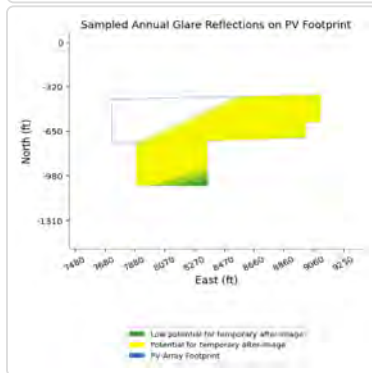
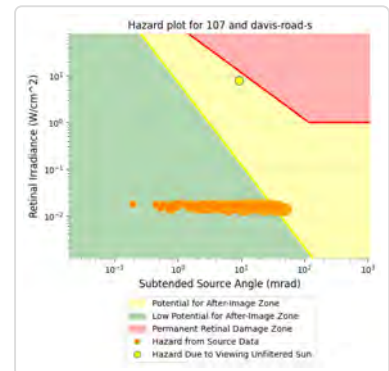
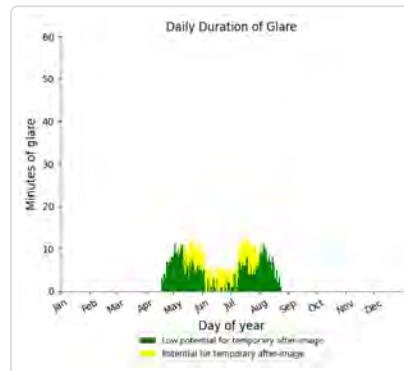
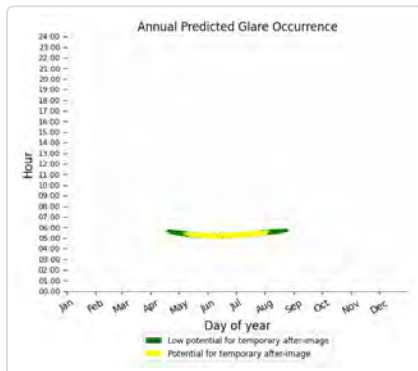
107: Davis Road north segment

No glare found

107: Davis Road south segment

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

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



107: Gage Road

No glare found

107: Hinkleville Road

No glare found

107: Randy Williams Road

No glare found

108 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	257	0
OP: OP 7	280	0
OP: OP 8	262	0
OP: OP 9	245	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	107	221
OP: OP 15	282	4
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	30	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
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	258	1009
Route: Gage Road	0	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

108: Barkley Regional Airport Runway 14

No glare found

108: Barkley Regional Airport Runway 23

No glare found

108: Barkley Regional Airport Runway 32

No glare found

108: Barkley Regional Airport Runway 5

No glare found

108: 1-ATCT

No glare found

108: OP 2

No glare found

108: OP 3

No glare found

108: OP 4

No glare found

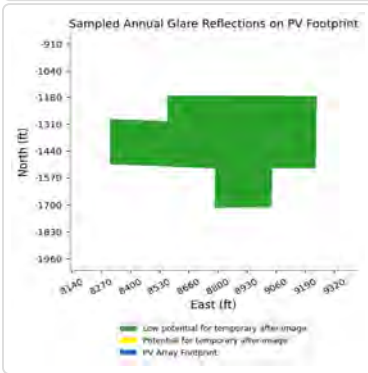
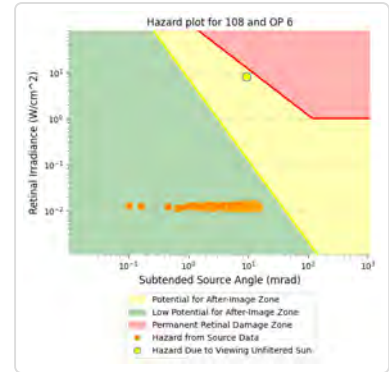
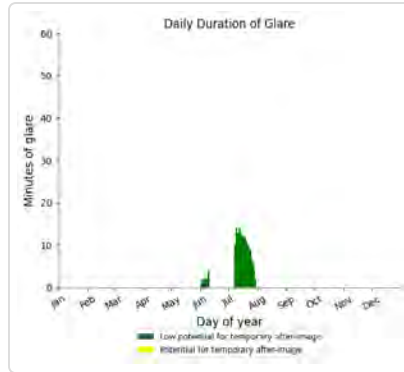
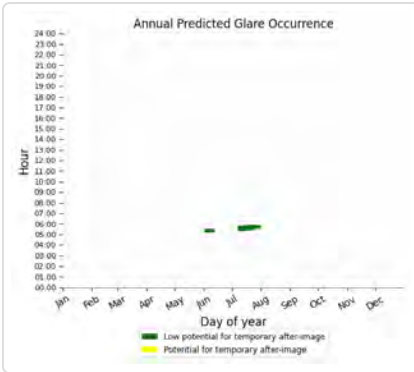
108: OP 5

No glare found

108: OP 6

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

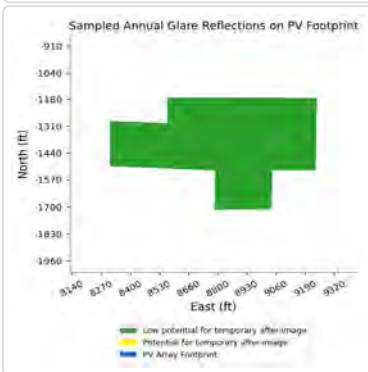
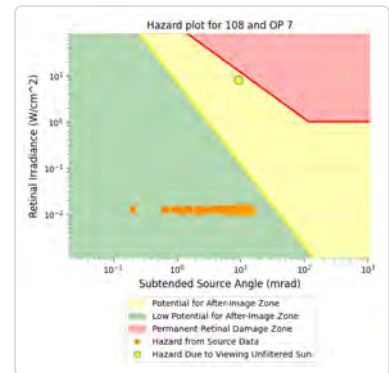
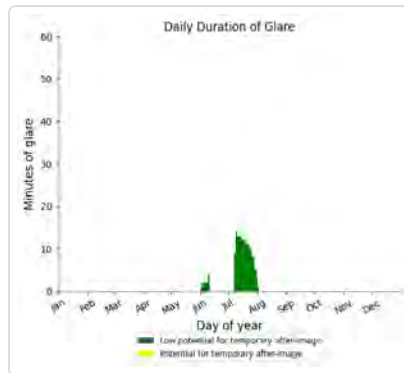
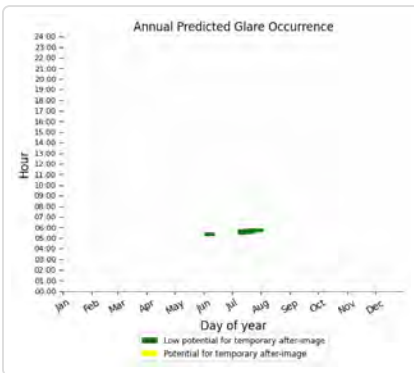
- 257 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



108: OP 7

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

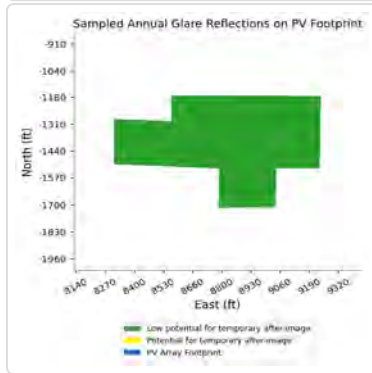
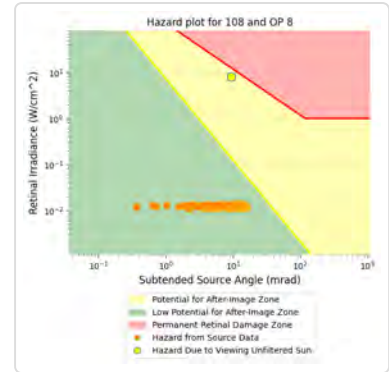
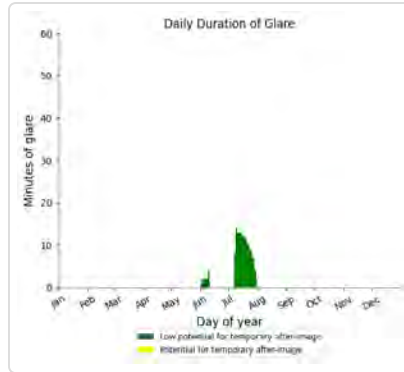
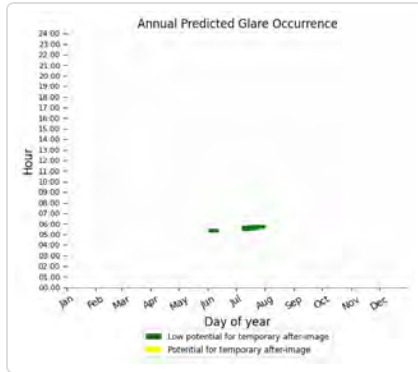
- 280 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



108: OP 8

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

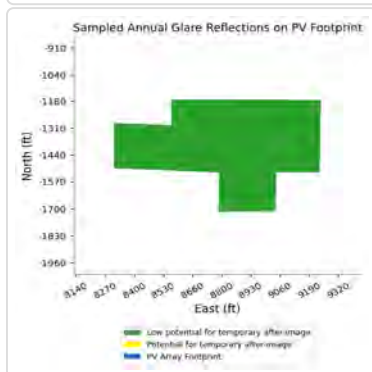
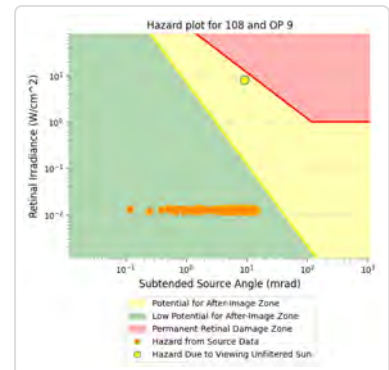
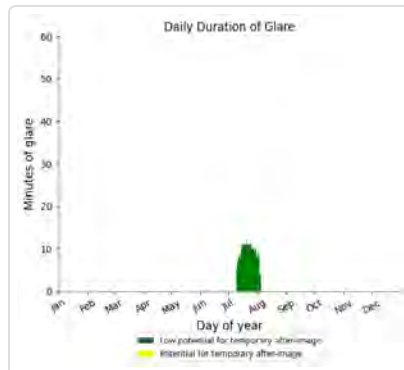
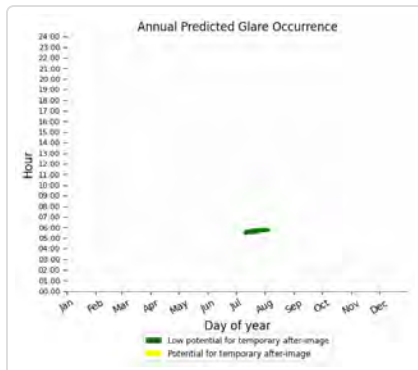
- 262 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



108: OP 9

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

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



108: OP 10

No glare found

108: OP 11

No glare found

108: OP 12

No glare found

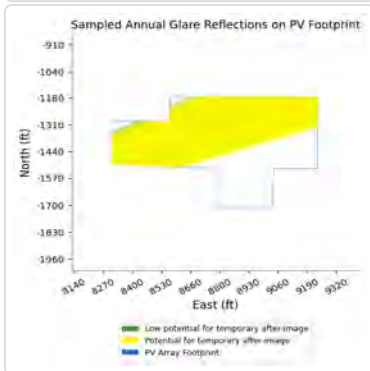
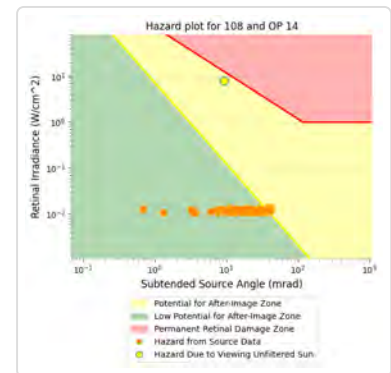
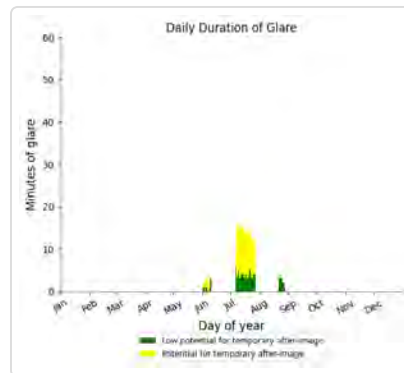
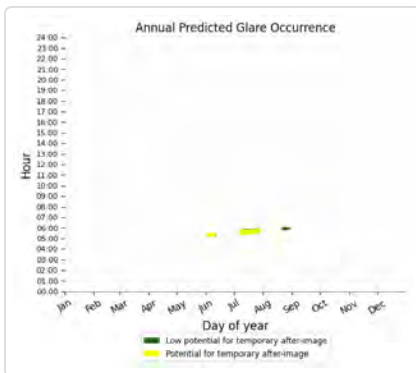
108: OP 13

No glare found

108: OP 14

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

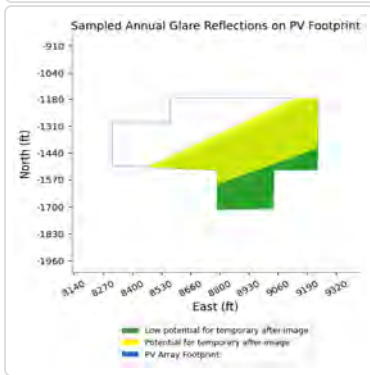
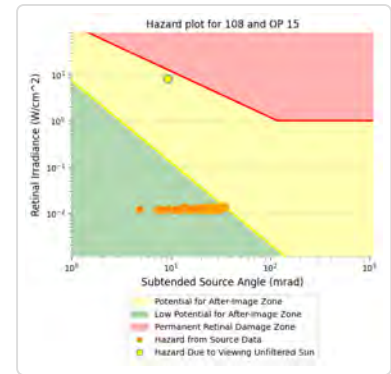
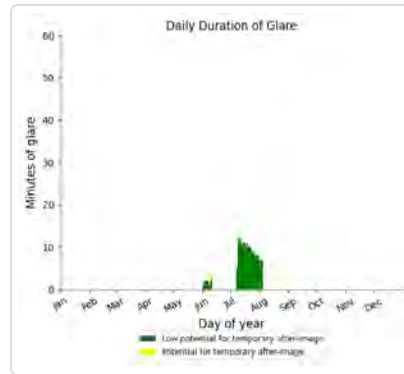
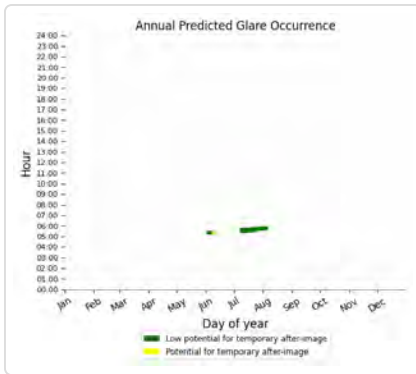
- 107 minutes of "green" glare with low potential to cause temporary after-image.
- 221 minutes of "yellow" glare with potential to cause temporary after-image.



108: OP 15

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

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



108: OP 16

No glare found

108: OP 17

No glare found

108: OP 18

No glare found

108: OP 19

No glare found

108: OP 20

No glare found

108: OP 21

No glare found

108: OP 22

No glare found

108: OP 23

No glare found

108: OP 24

No glare found

108: OP 25

No glare found

108: OP 26

No glare found

108: OP 27

No glare found

108: OP 28

No glare found

108: OP 29

No glare found

108: OP 30

No glare found

108: OP 31

No glare found

108: OP 32

No glare found

108: OP 33

No glare found

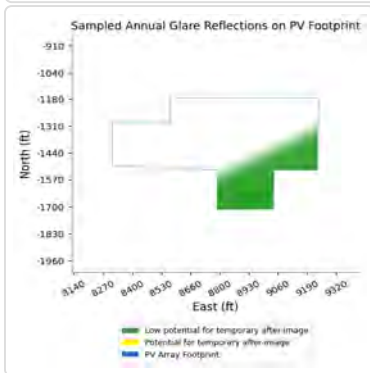
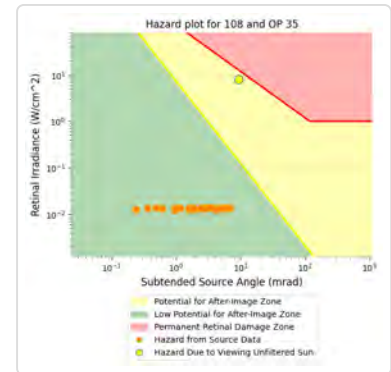
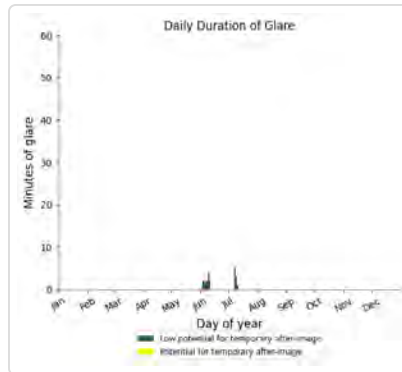
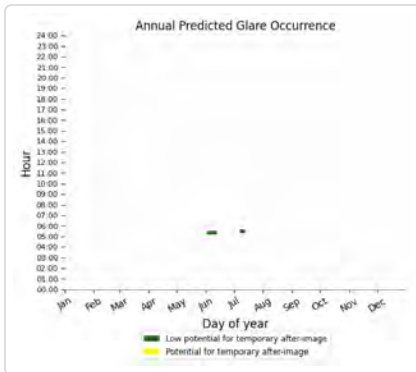
108: OP 34

No glare found

108: OP 35

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

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



108: OP 36

No glare found

108: OP 37

No glare found

108: OP 38

No glare found

108: OP 39

No glare found

108: OP 40

No glare found

108: Ceredo Road

No glare found

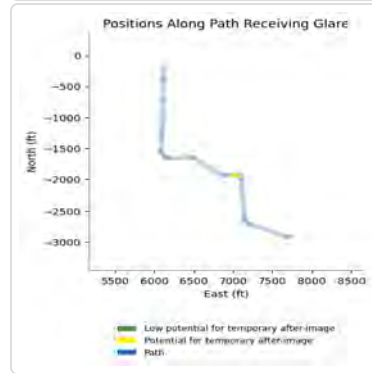
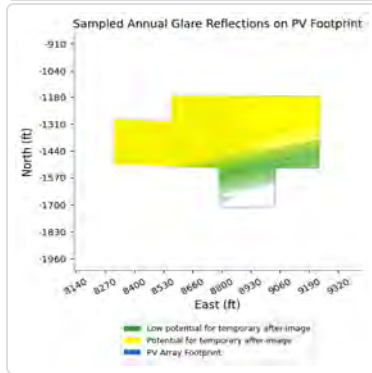
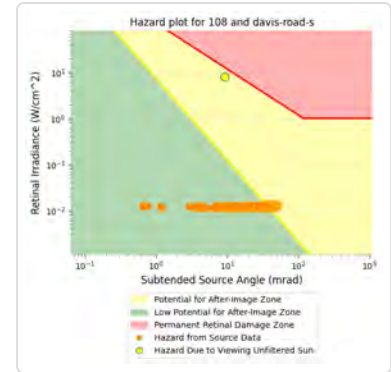
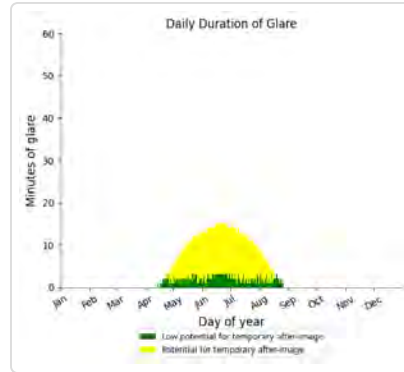
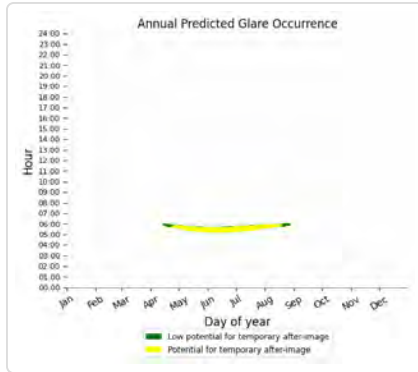
108: Davis Road north segment

No glare found

108: Davis Road south segment

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

- 258 minutes of "green" glare with low potential to cause temporary after-image.
- 1,009 minutes of "yellow" glare with potential to cause temporary after-image.



108: Gage Road

No glare found

108: Hinkleville Road

No glare found

108: Randy Williams Road

No glare found

109 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	607	0
OP: OP 7	596	0
OP: OP 8	604	0

OP: OP 9	273	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	1158	1835
OP: OP 15	955	1529
OP: OP 16	755	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	1009	107
OP: OP 30	0	0
OP: OP 31	357	0
OP: OP 32	327	0
OP: OP 33	300	0
OP: OP 34	404	0
OP: OP 35	476	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
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	1222	5081
Route: Gage Road	990	177
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

109: Barkley Regional Airport Runway 14

No glare found

109: Barkley Regional Airport Runway 23

No glare found

109: Barkley Regional Airport Runway 32

No glare found

109: Barkley Regional Airport Runway 5

No glare found

109: 1-ATCT

No glare found

109: OP 2

No glare found

109: OP 3

No glare found

109: OP 4

No glare found

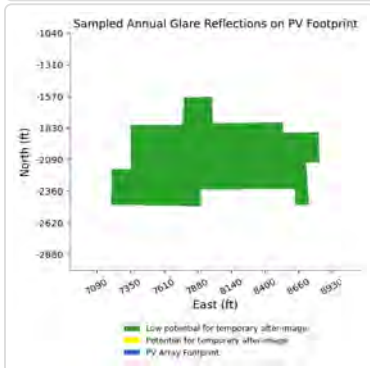
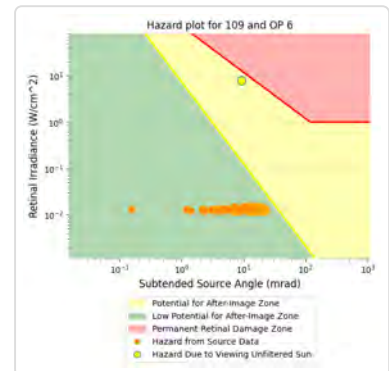
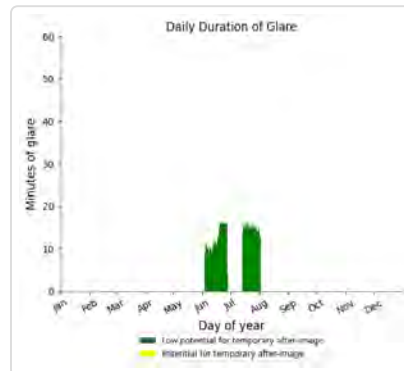
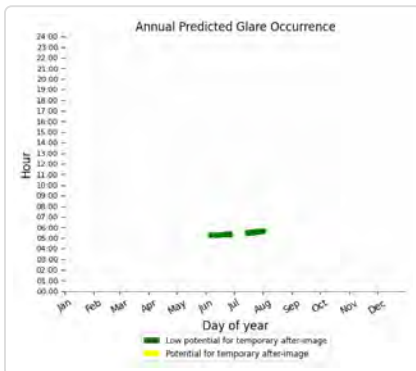
109: OP 5

No glare found

109: OP 6

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

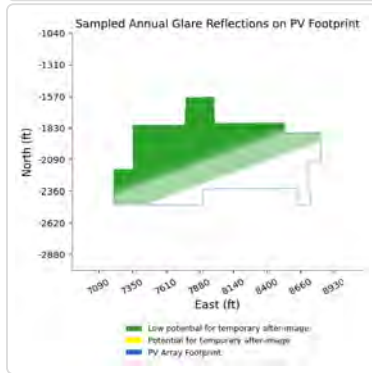
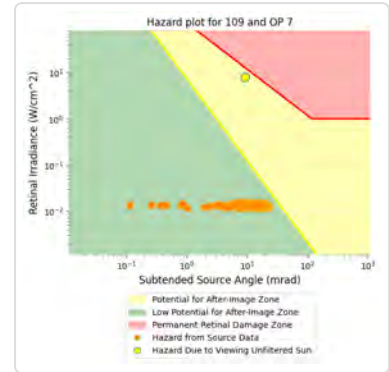
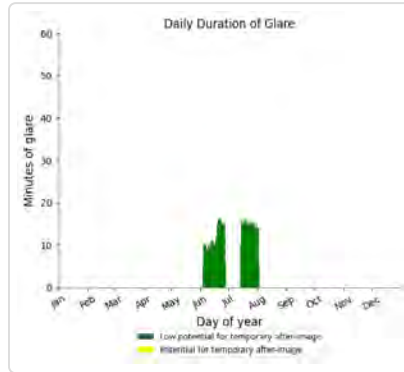
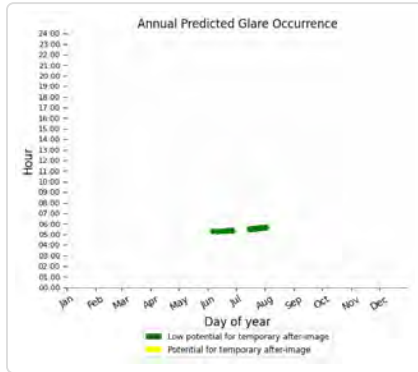
- 607 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 7

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

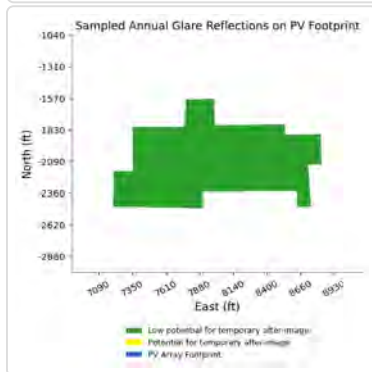
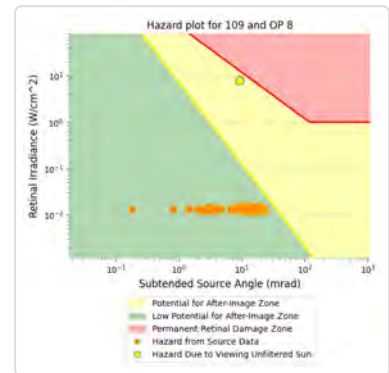
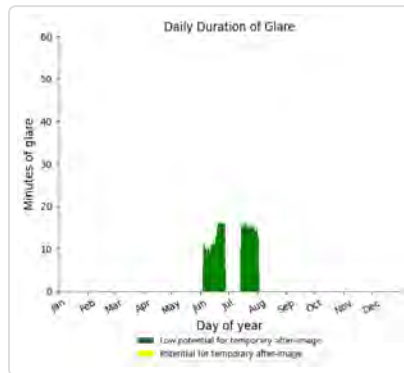
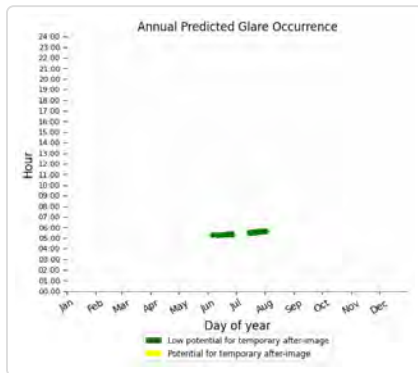
- 596 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 8

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

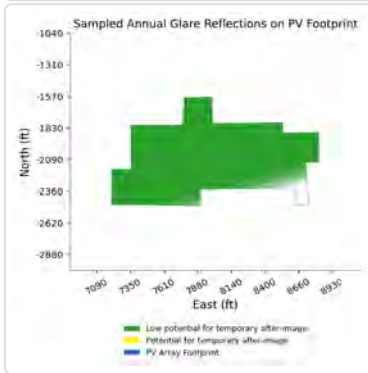
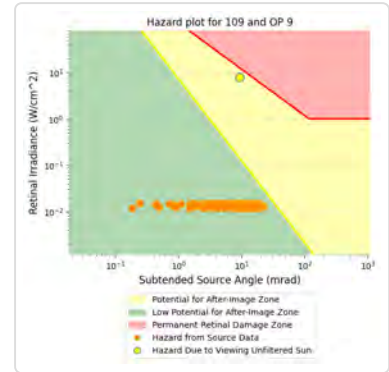
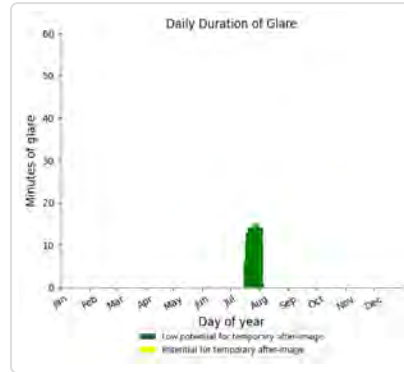
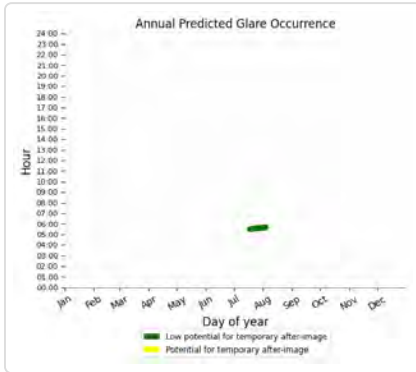
- 604 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 9

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

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



109: OP 10

No glare found

109: OP 11

No glare found

109: OP 12

No glare found

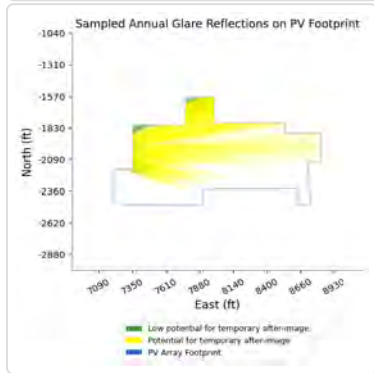
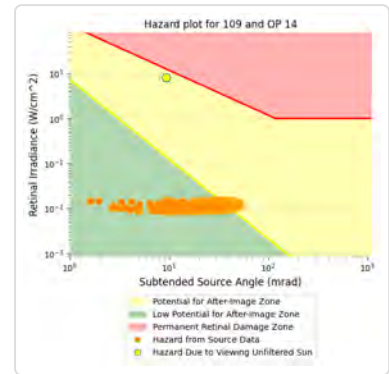
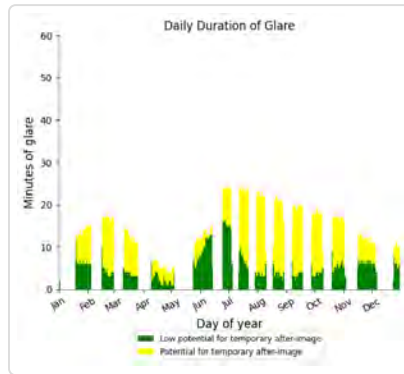
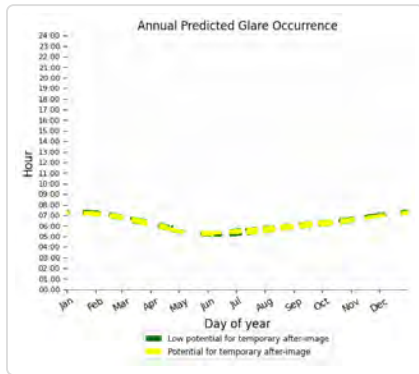
109: OP 13

No glare found

109: OP 14

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

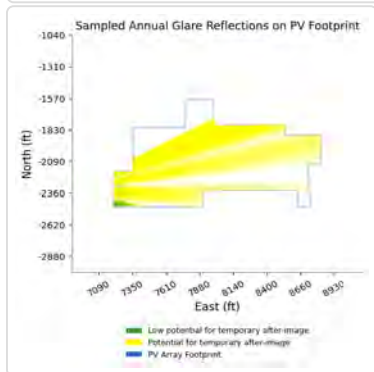
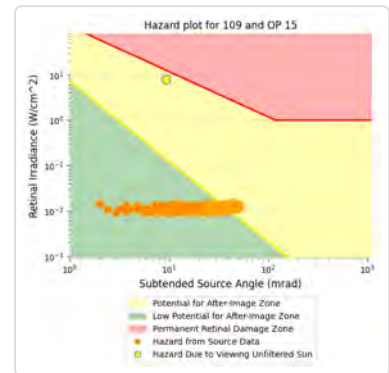
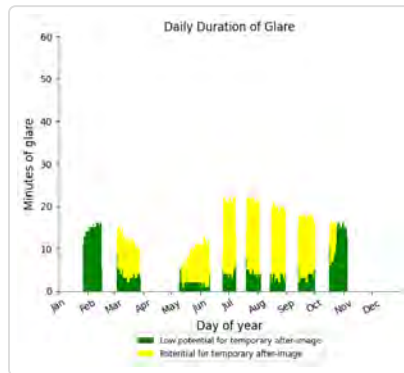
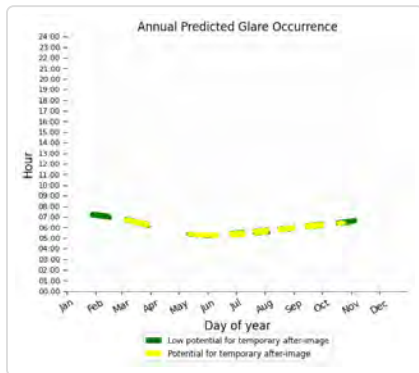
- 1,158 minutes of "green" glare with low potential to cause temporary after-image.
- 1,835 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 15

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

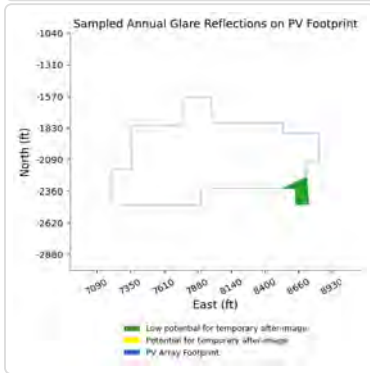
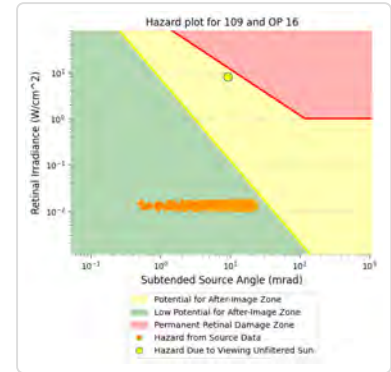
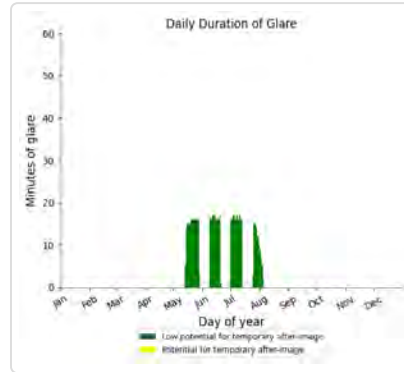
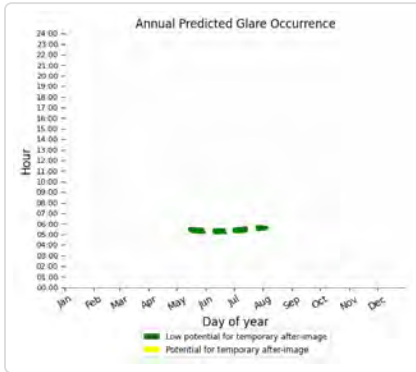
- 955 minutes of "green" glare with low potential to cause temporary after-image.
- 1,529 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 16

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

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



109: OP 17

No glare found

109: OP 18

No glare found

109: OP 19

No glare found

109: OP 20

No glare found

109: OP 21

No glare found

109: OP 22

No glare found

109: OP 23

No glare found

109: OP 24

No glare found

109: OP 25

No glare found

109: OP 26

No glare found

109: OP 27

No glare found

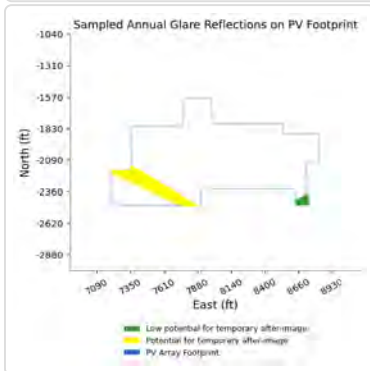
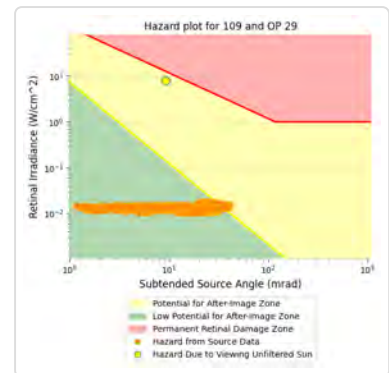
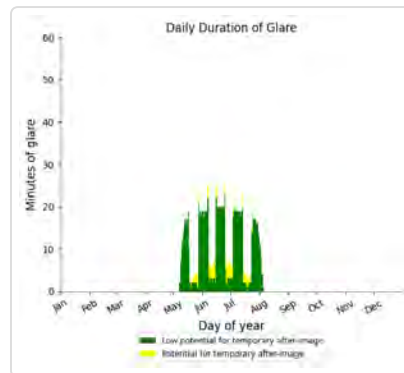
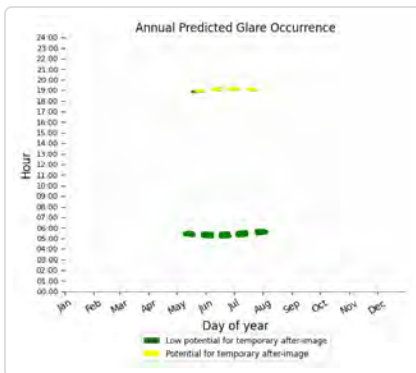
109: OP 28

No glare found

109: OP 29

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

- 1,009 minutes of "green" glare with low potential to cause temporary after-image.
- 107 minutes of "yellow" glare with potential to cause temporary after-image.



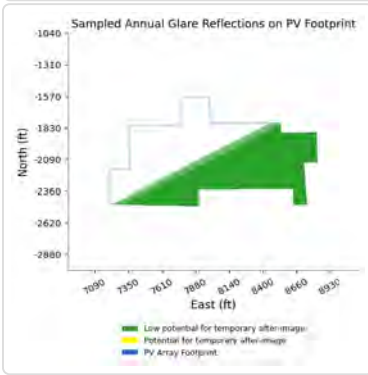
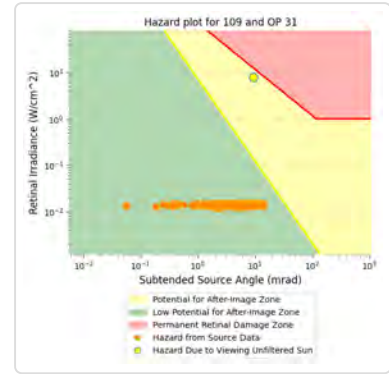
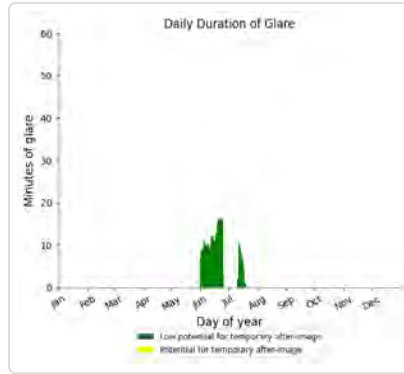
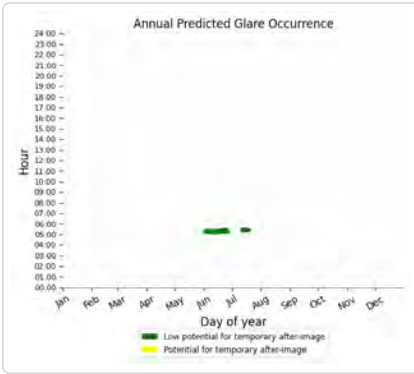
109: OP 30

No glare found

109: OP 31

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

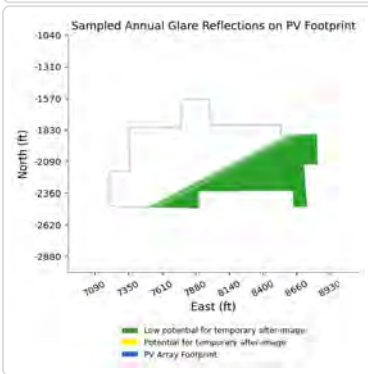
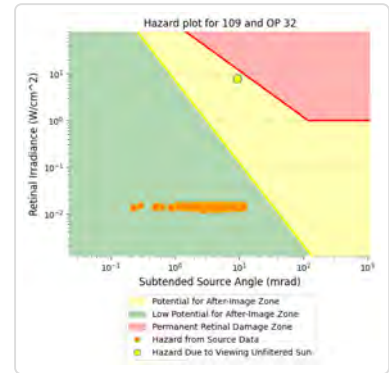
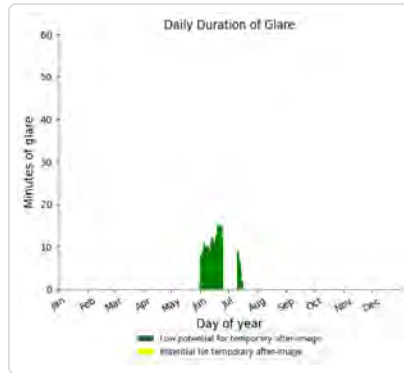
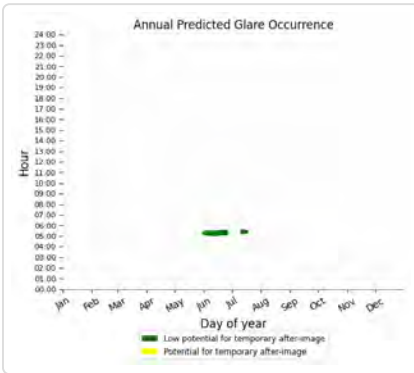
- 357 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 32

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

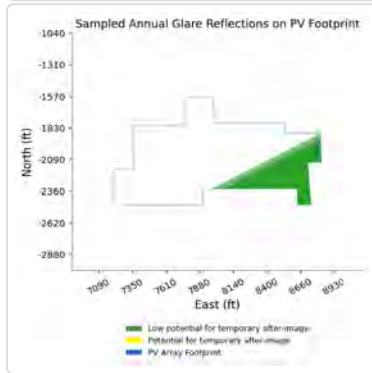
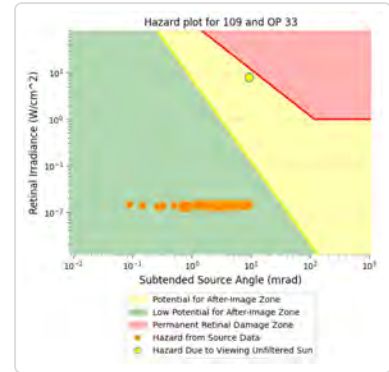
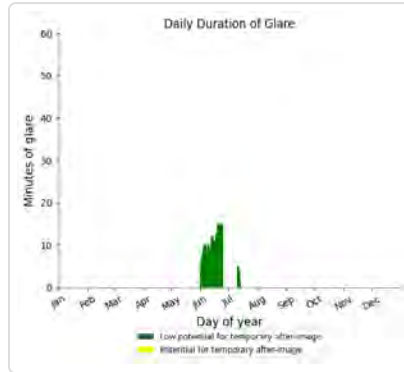
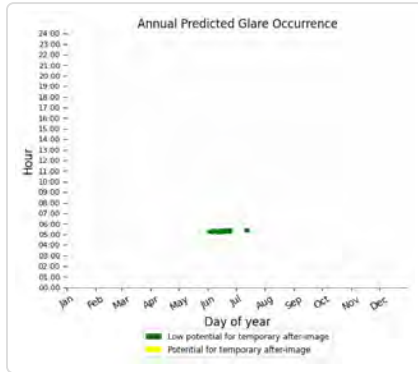
- 327 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 33

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

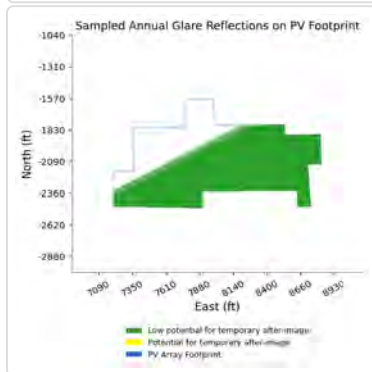
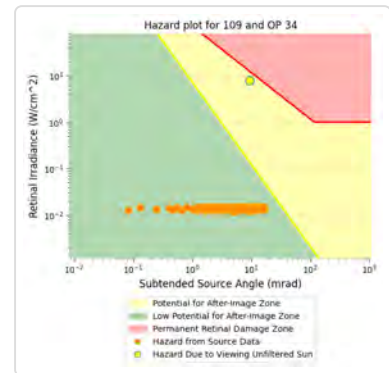
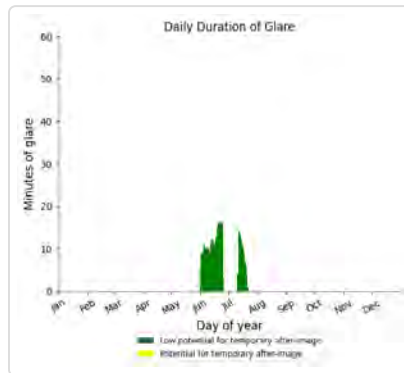
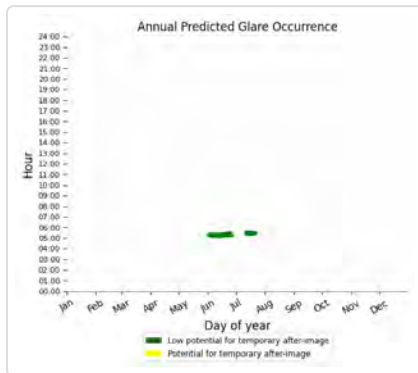
- 300 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 34

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

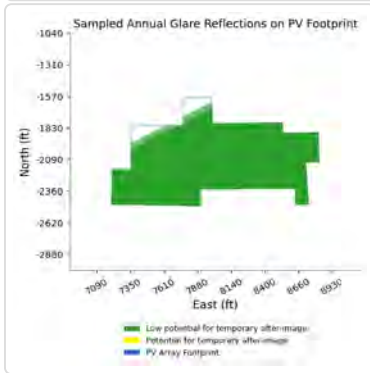
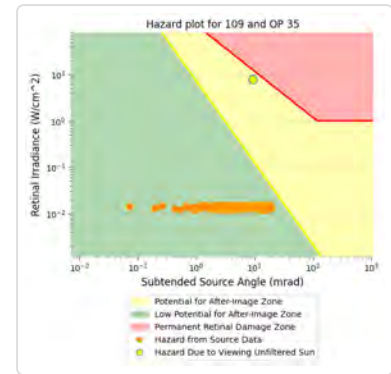
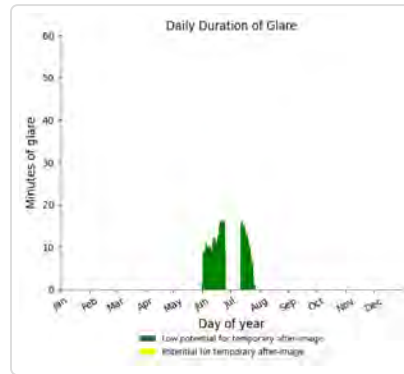
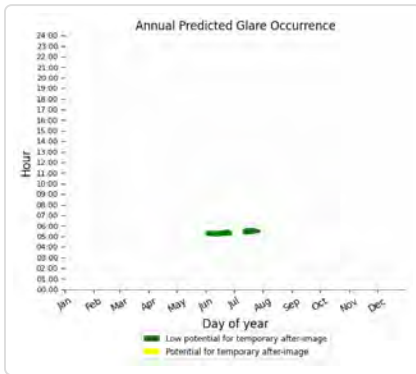
- 404 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 35

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

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



109: OP 36

No glare found

109: OP 37

No glare found

109: OP 38

No glare found

109: OP 39

No glare found

109: OP 40

No glare found

109: Ceredo Road

No glare found

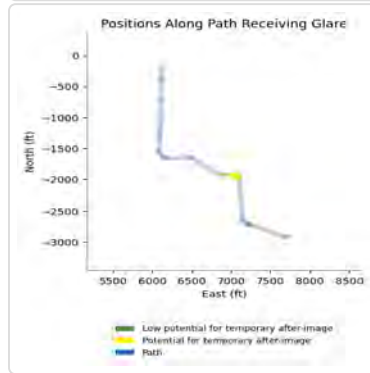
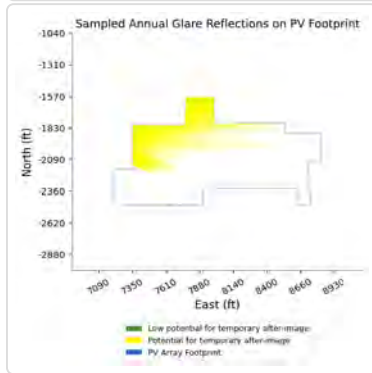
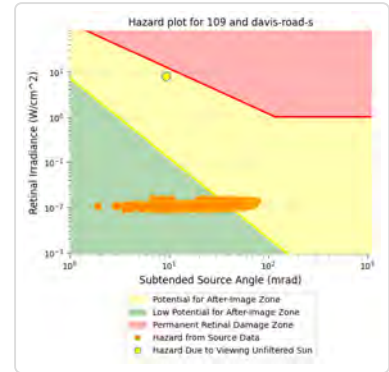
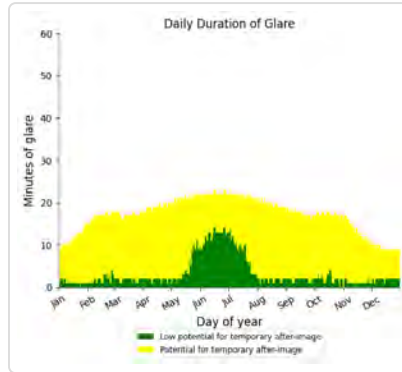
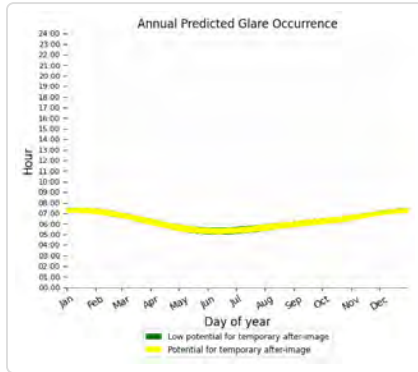
109: Davis Road north segment

No glare found

109: Davis Road south segment

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

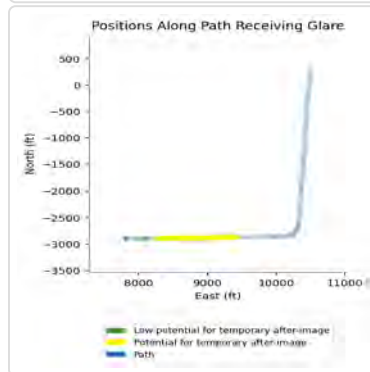
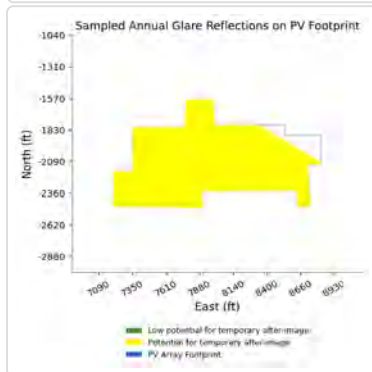
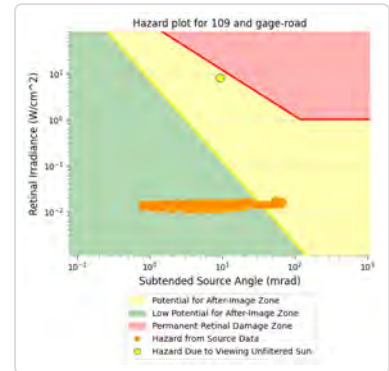
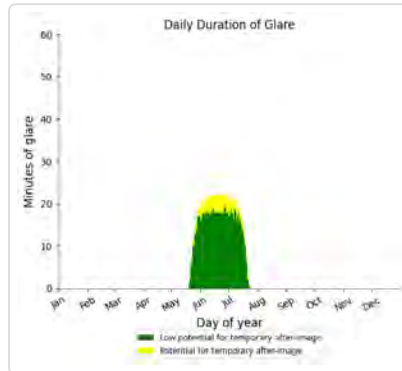
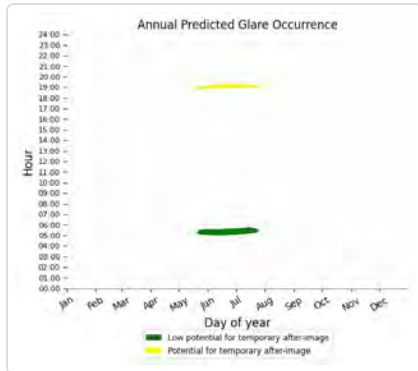
- 1,222 minutes of "green" glare with low potential to cause temporary after-image.
- 5,081 minutes of "yellow" glare with potential to cause temporary after-image.



109: Gage Road

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

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



109: Hinkleville Road

No glare found

109: Randy Williams Road

No glare found

110 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	406	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	271	0
OP: OP 11	277	0
OP: OP 12	264	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0

OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	1368	0
Route: Davis Road north segment	1001	0
Route: Davis Road south segment	42	0
Route: Gage Road	0	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

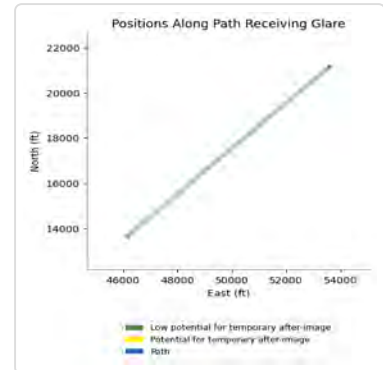
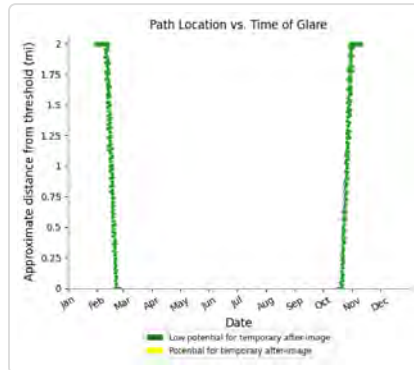
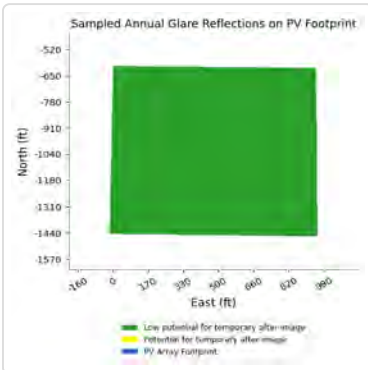
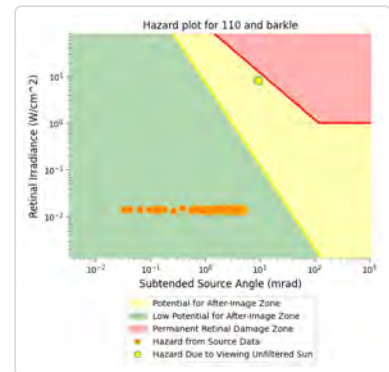
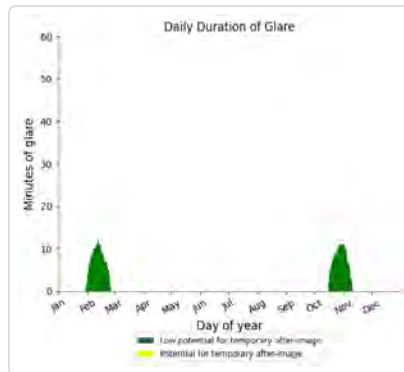
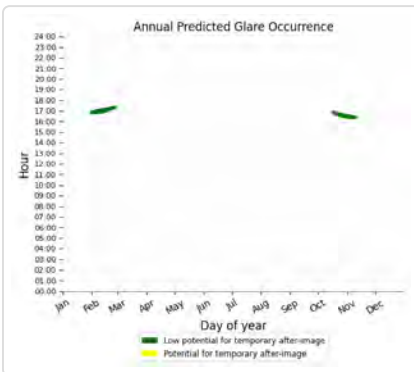
110: Barkley Regional Airport Runway 14

No glare found

110: Barkley Regional Airport Runway 23

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

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



110: Barkley Regional Airport Runway 32

No glare found

110: Barkley Regional Airport Runway 5

No glare found

110: 1-ATCT

No glare found

110: OP 2

No glare found

110: OP 3

No glare found

110: OP 4

No glare found

110: OP 5

No glare found

110: OP 6

No glare found

110: OP 7

No glare found

110: OP 8

No glare found

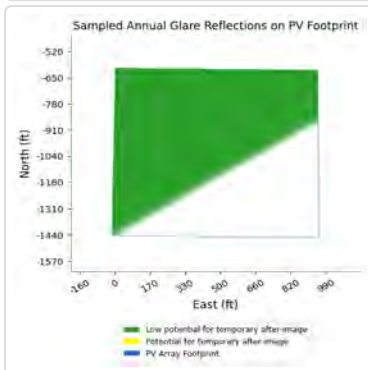
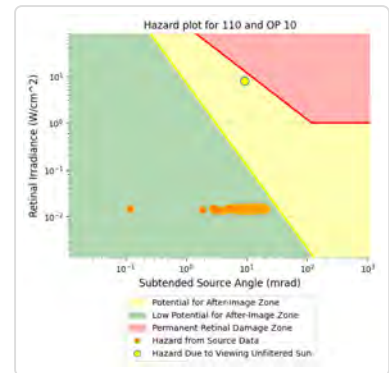
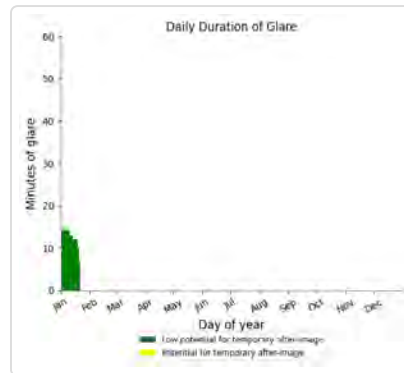
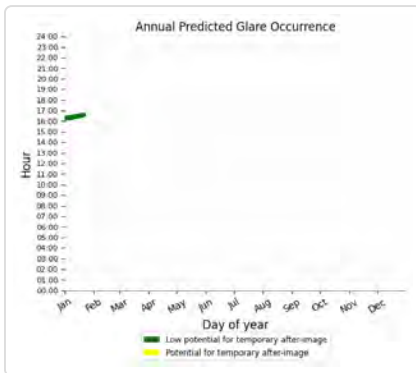
110: OP 9

No glare found

110: OP 10

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

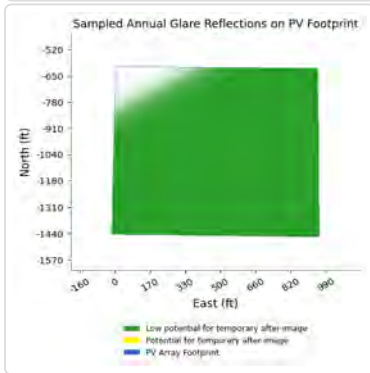
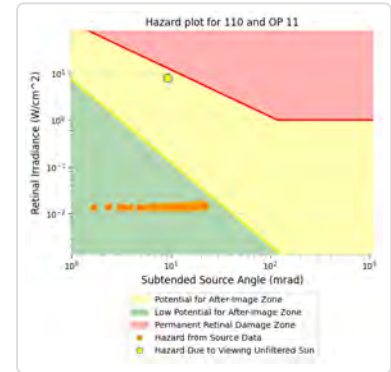
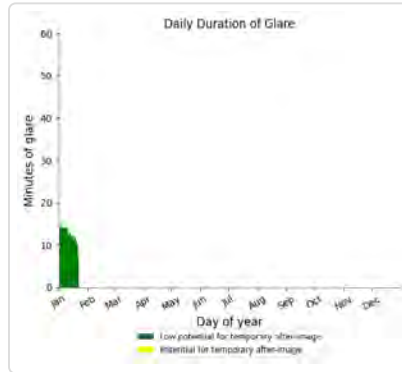
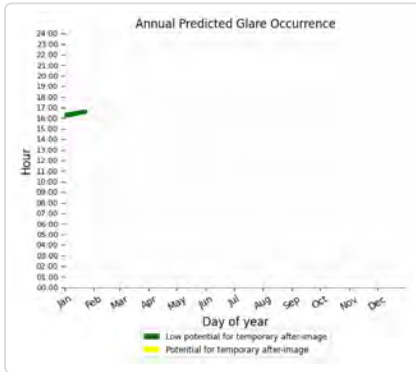
- 271 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



110: OP 11

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

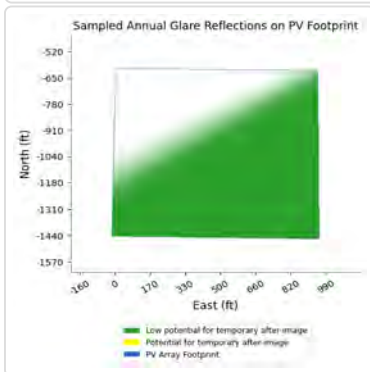
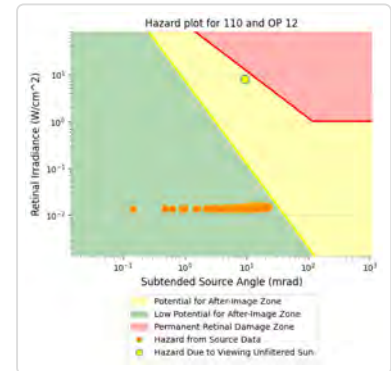
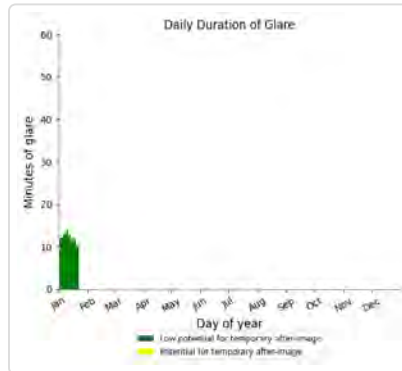
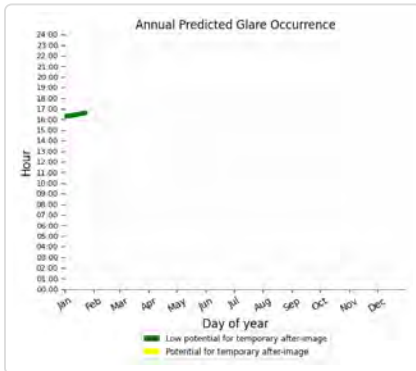
- 277 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



110: OP 12

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

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



110: OP 13

No glare found

110: OP 14

No glare found

110: OP 15

No glare found

110: OP 16

No glare found

110: OP 17

No glare found

110: OP 18

No glare found

110: OP 19

No glare found

110: OP 20

No glare found

110: OP 21

No glare found

110: OP 22

No glare found

110: OP 23

No glare found

110: OP 24

No glare found

110: OP 25

No glare found

110: OP 26

No glare found

110: OP 27

No glare found

110: OP 28

No glare found

110: OP 29

No glare found

110: OP 30

No glare found

110: OP 31

No glare found

110: OP 32

No glare found

110: OP 33

No glare found

110: OP 34

No glare found

110: OP 35

No glare found

110: OP 36

No glare found

110: OP 37

No glare found

110: OP 38

No glare found

110: OP 39

No glare found

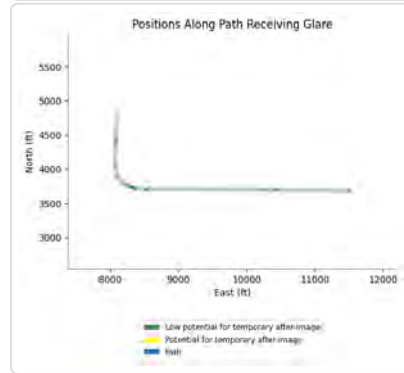
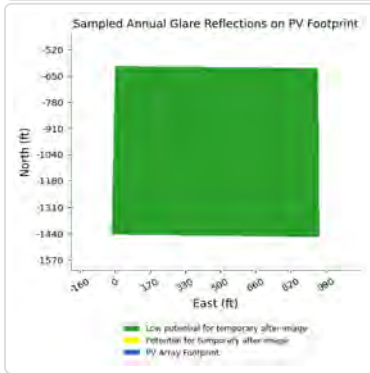
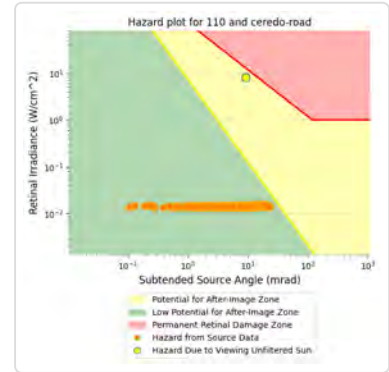
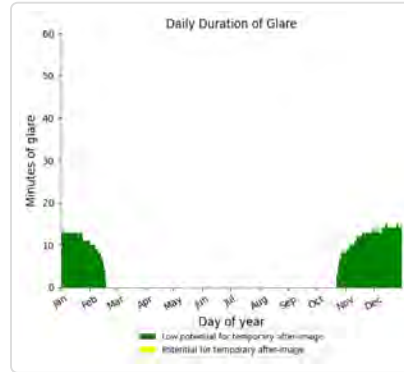
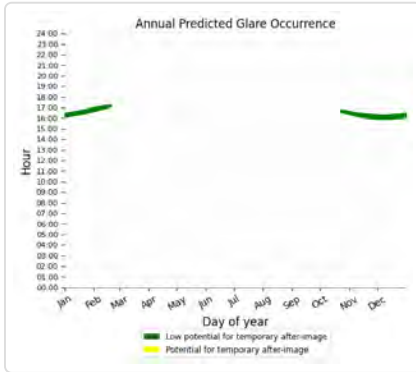
110: OP 40

No glare found

110: Ceredo Road

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

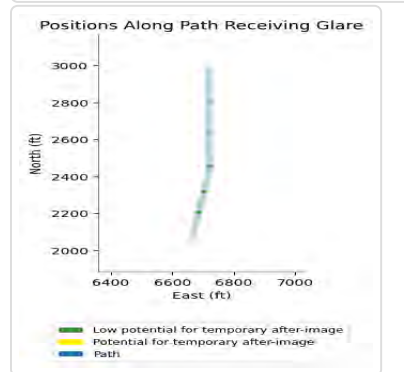
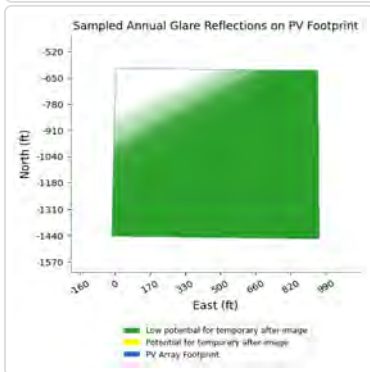
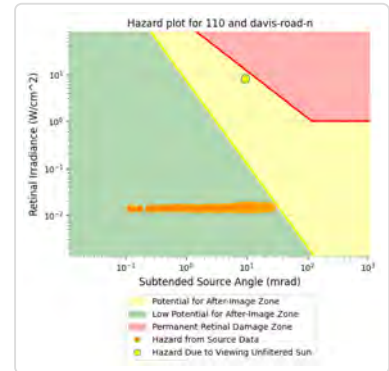
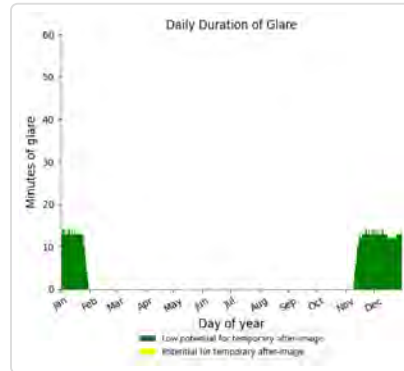
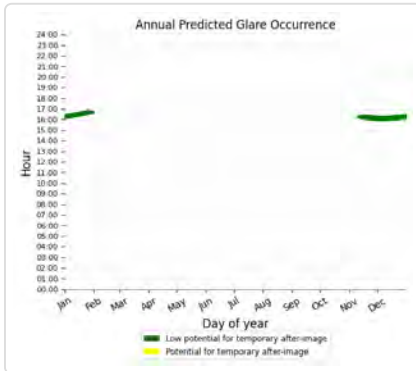
- 1,368 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



110: Davis Road north segment

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

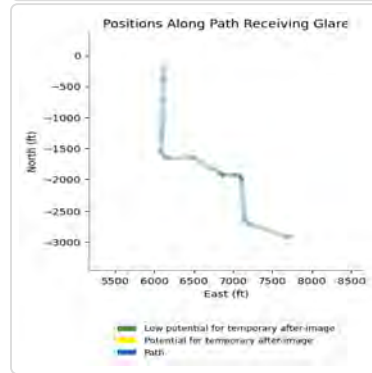
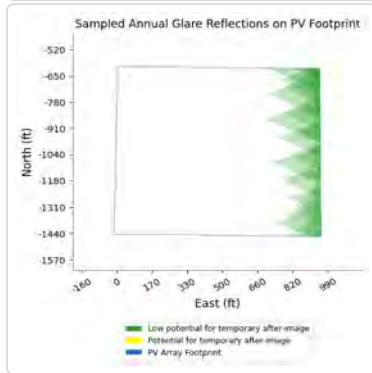
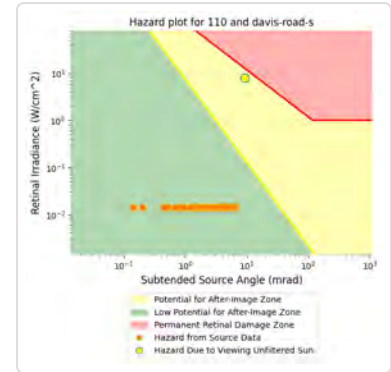
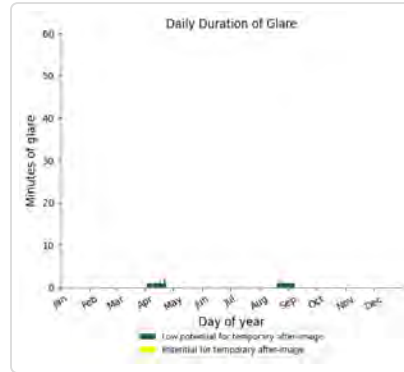
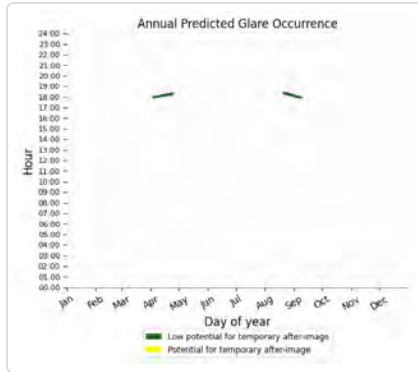
- 1,001 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



110: Davis Road south segment

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

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



110: Gage Road

No glare found

110: Hinkleville Road

No glare found

110: Randy Williams Road

No glare found

111 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	403	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	84	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0

OP: OP 9	0	0
OP: OP 10	21	0
OP: OP 11	160	0
OP: OP 12	164	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	38	0
OP: OP 22	62	0
OP: OP 23	89	0
OP: OP 24	141	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
Route: Ceredo Road	758	0
Route: Davis Road north segment	469	0
Route: Davis Road south segment	344	0
Route: Gage Road	228	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

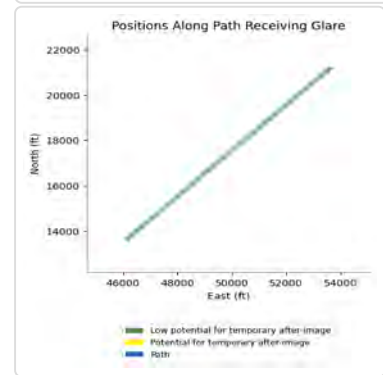
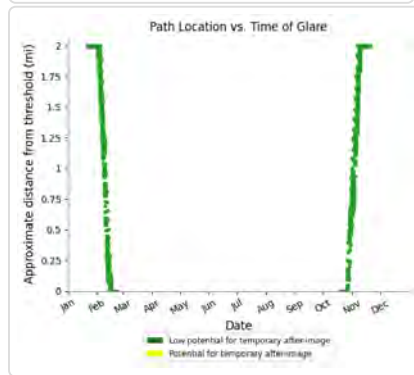
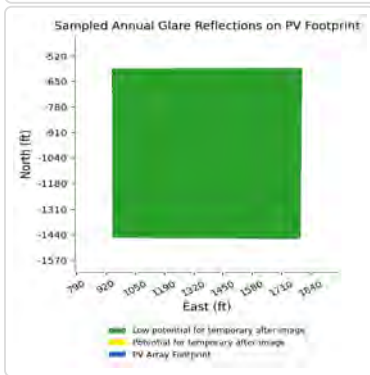
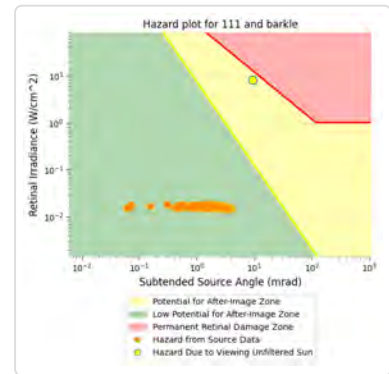
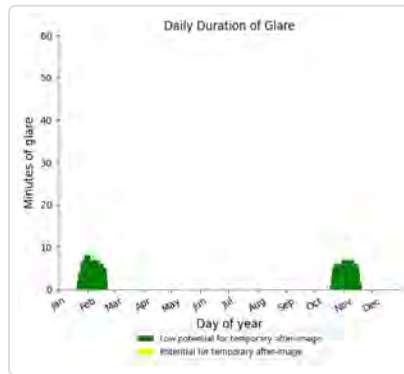
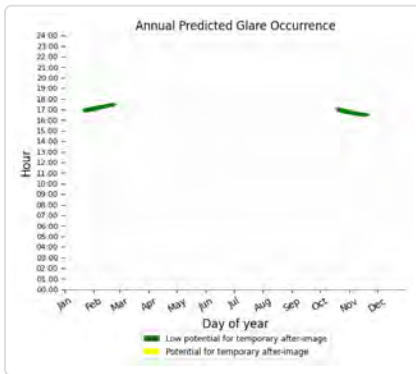
111: Barkley Regional Airport Runway 14

No glare found

111: Barkley Regional Airport Runway 23

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

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



111: Barkley Regional Airport Runway 32

No glare found

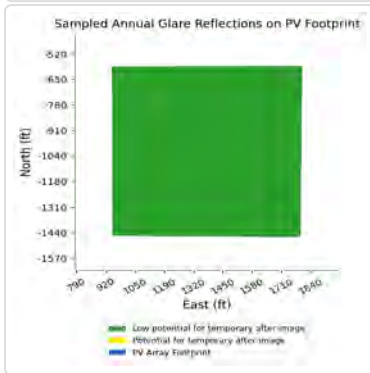
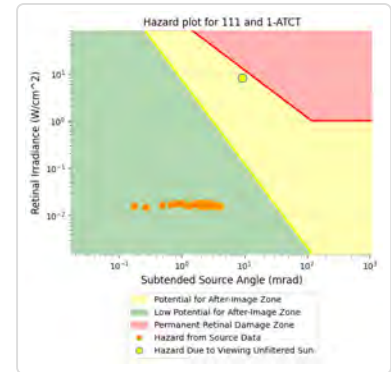
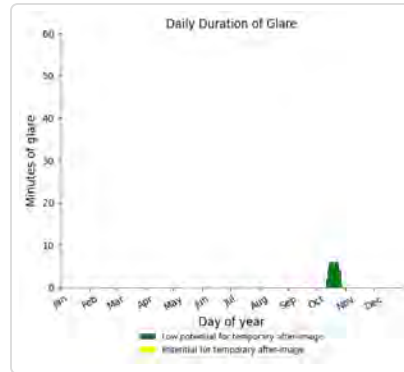
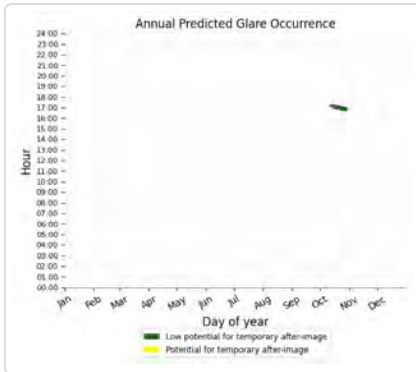
111: Barkley Regional Airport Runway 5

No glare found

111: 1-ATCT

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

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



111: OP 2

No glare found

111: OP 3

No glare found

111: OP 4

No glare found

111: OP 5

No glare found

111: OP 6

No glare found

111: OP 7

No glare found

111: OP 8

No glare found

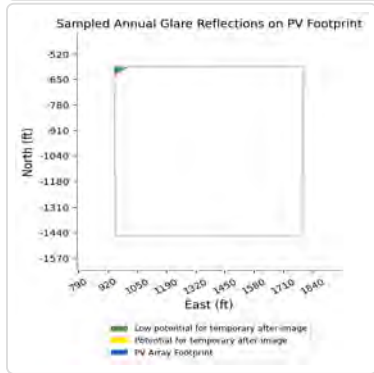
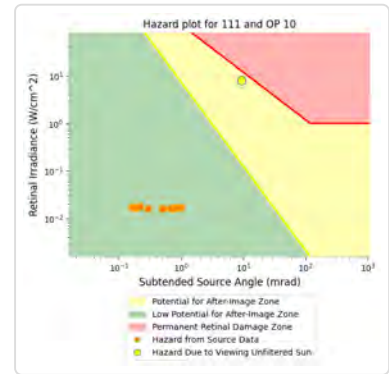
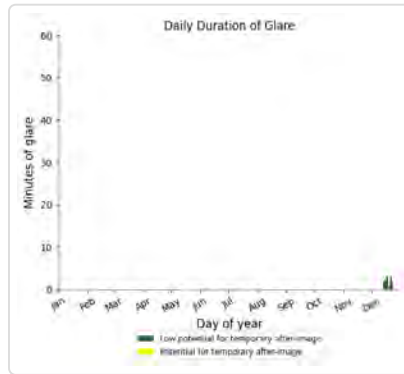
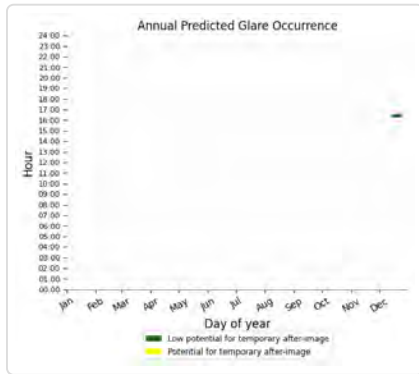
111: OP 9

No glare found

111: OP 10

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

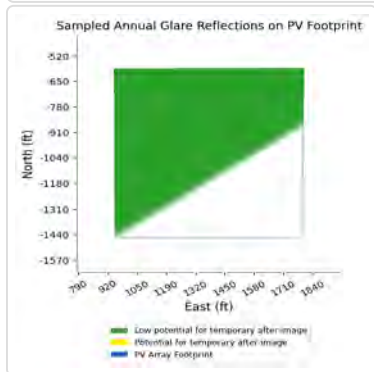
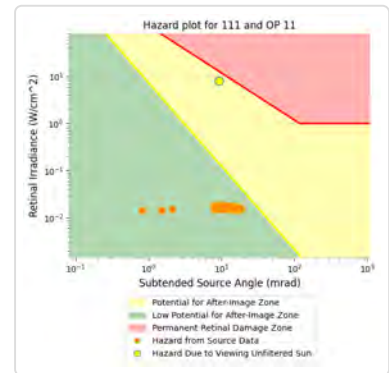
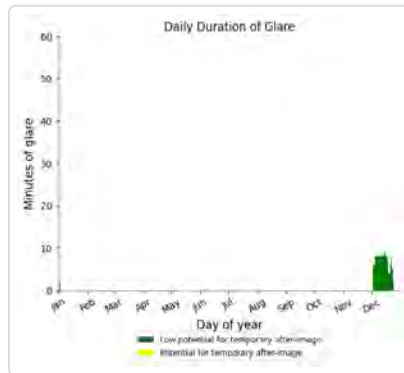
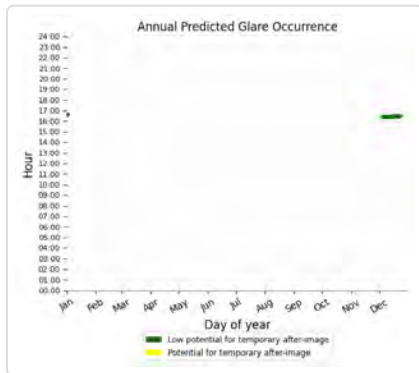
- 21 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: OP 11

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

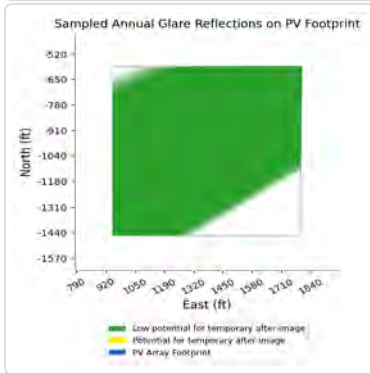
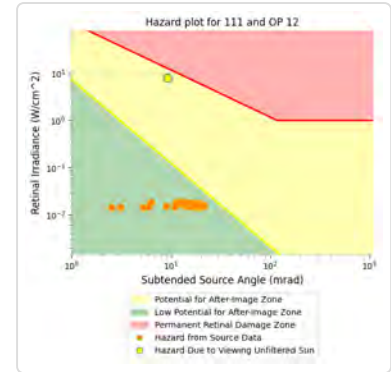
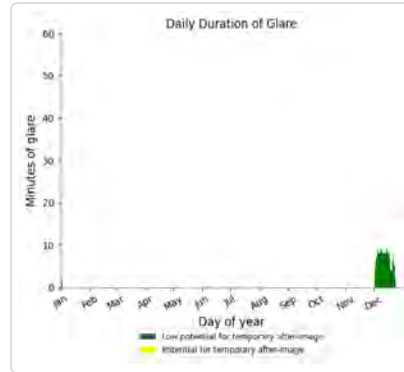
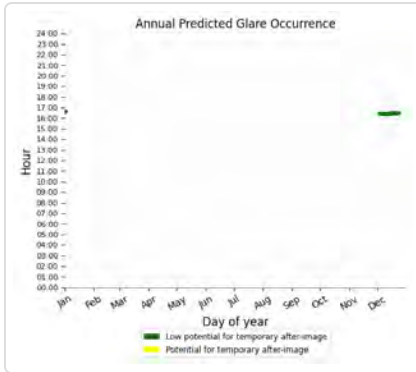
- 160 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: OP 12

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

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



111: OP 13

No glare found

111: OP 14

No glare found

111: OP 15

No glare found

111: OP 16

No glare found

111: OP 17

No glare found

111: OP 18

No glare found

111: OP 19

No glare found

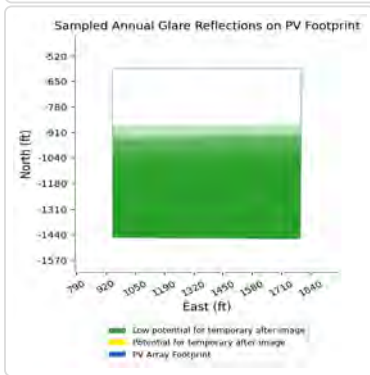
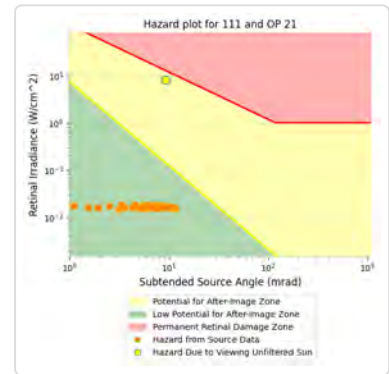
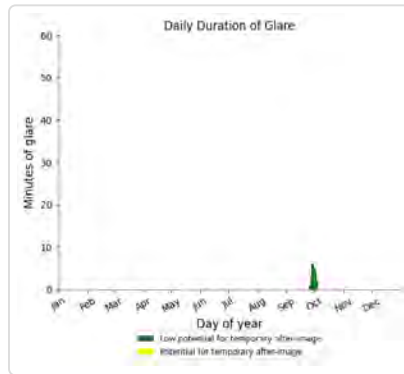
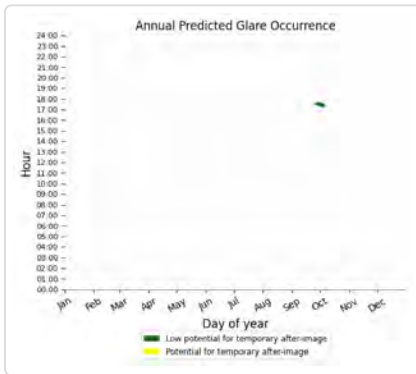
111: OP 20

No glare found

111: OP 21

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

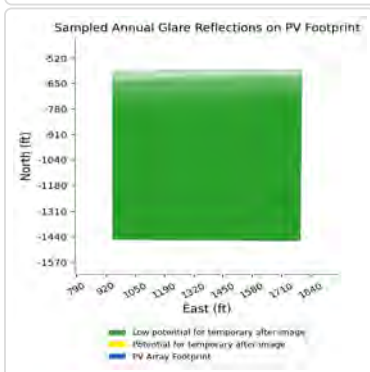
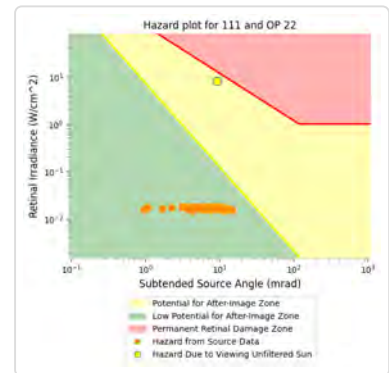
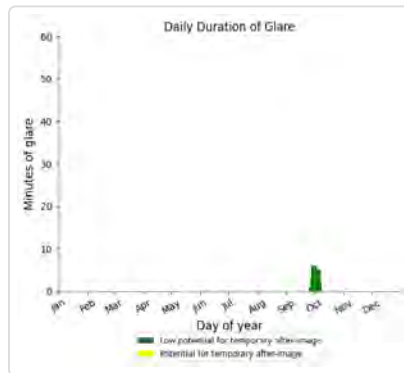
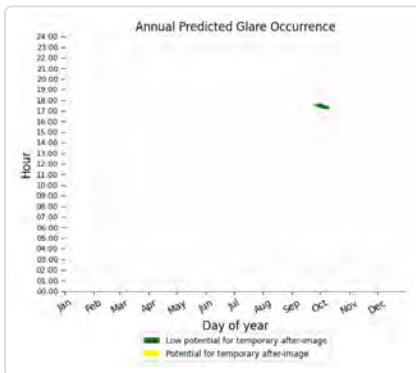
- 38 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: OP 22

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

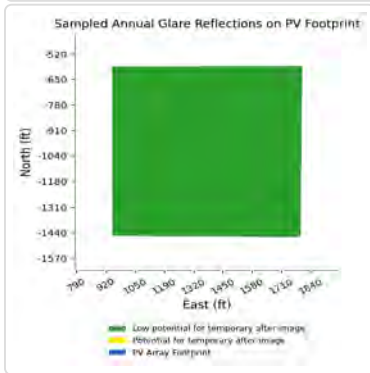
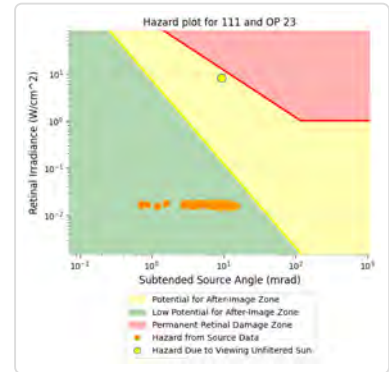
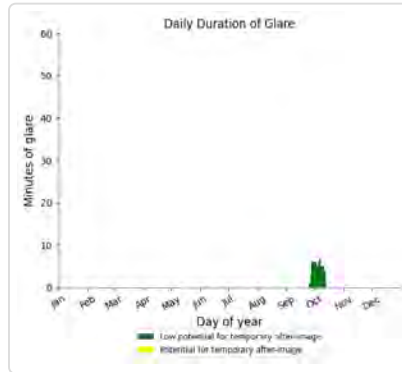
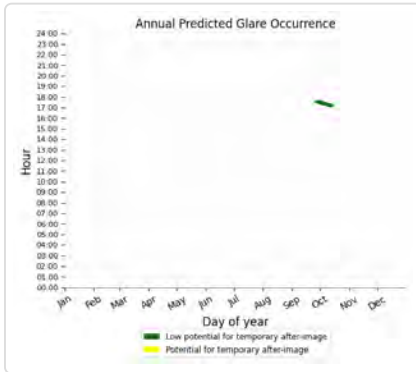
- 62 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: OP 23

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

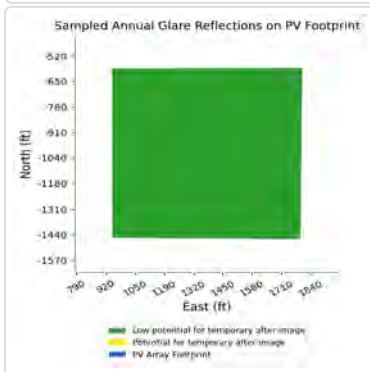
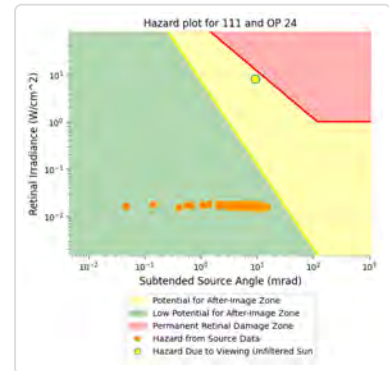
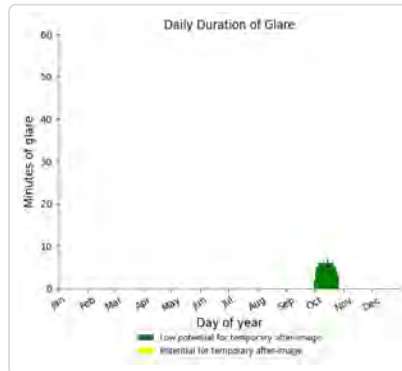
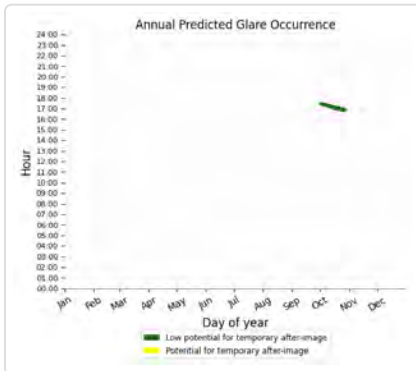
- 89 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: OP 24

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

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



111: OP 25

No glare found

111: OP 26

No glare found

111: OP 27

No glare found

111: OP 28

No glare found

111: OP 29

No glare found

111: OP 30

No glare found

111: OP 31

No glare found

111: OP 32

No glare found

111: OP 33

No glare found

111: OP 34

No glare found

111: OP 35

No glare found

111: OP 36

No glare found

111: OP 37

No glare found

111: OP 38

No glare found

111: OP 39

No glare found

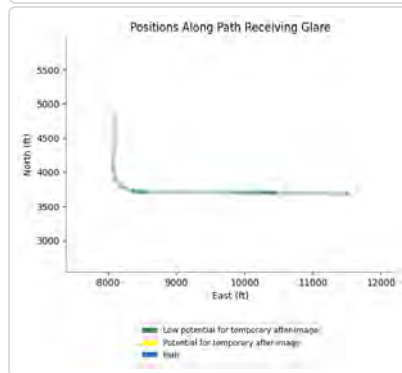
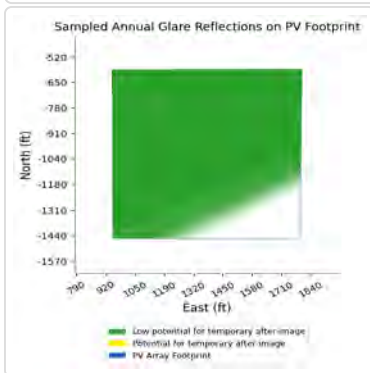
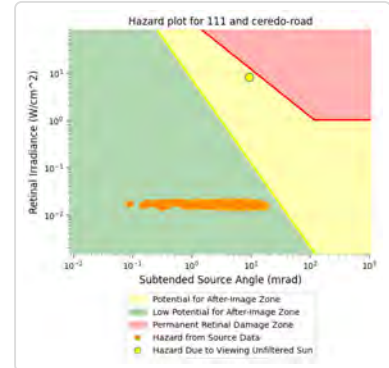
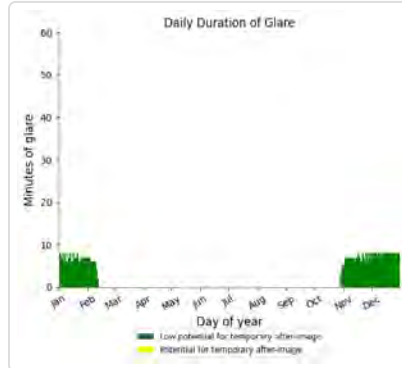
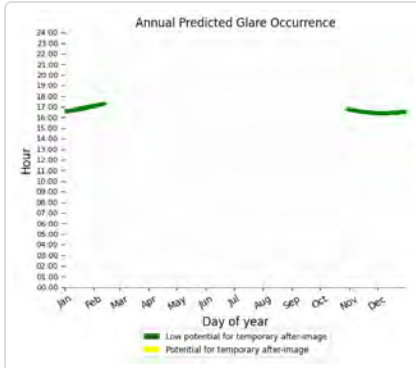
111: OP 40

No glare found

111: Ceredo Road

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

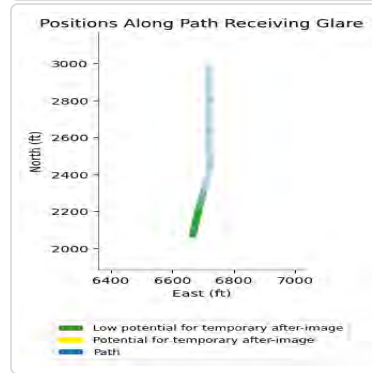
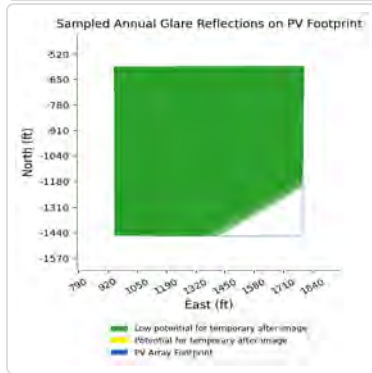
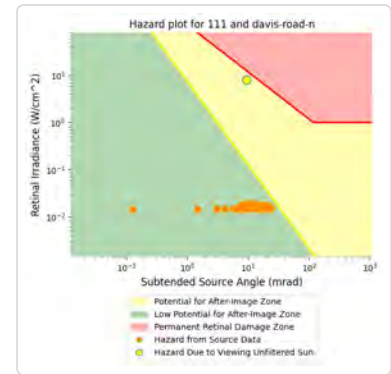
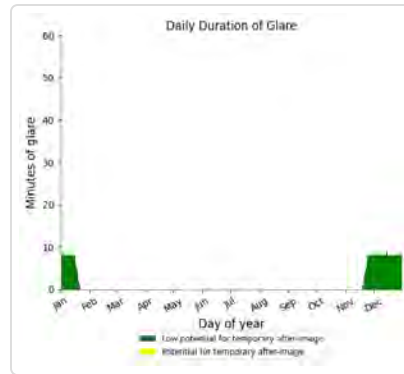
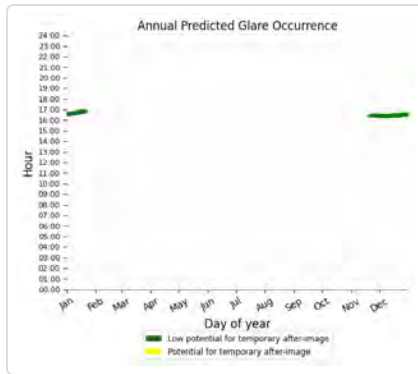
- 758 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: Davis Road north segment

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

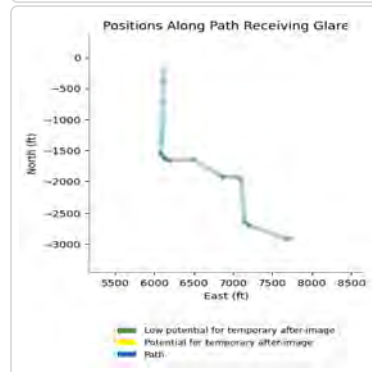
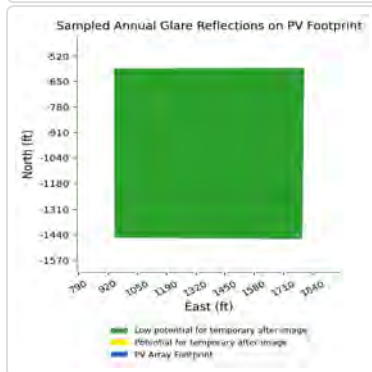
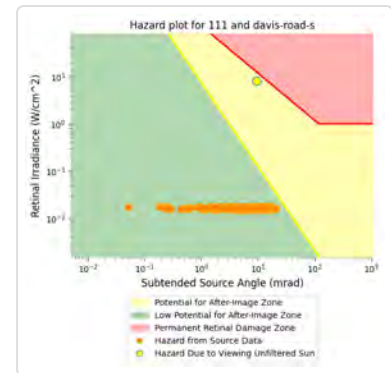
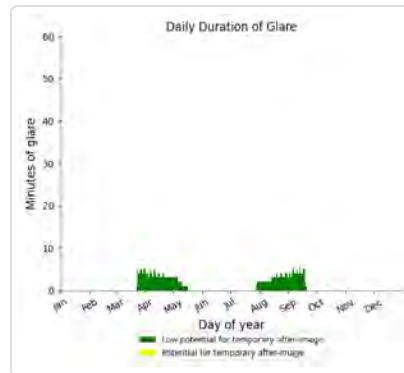
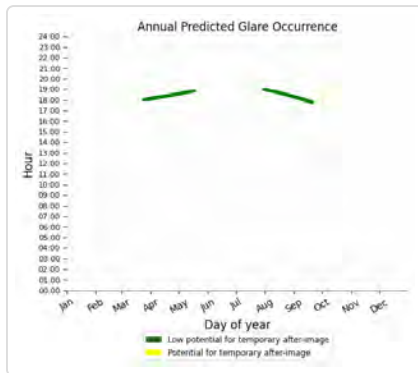
- 469 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: Davis Road south segment

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

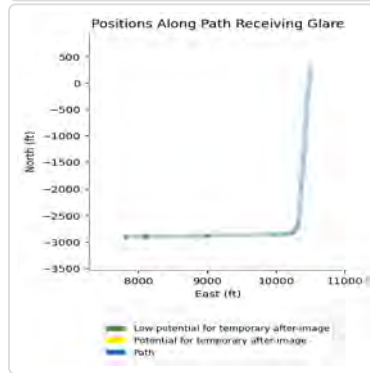
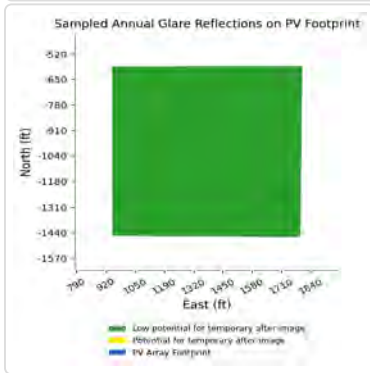
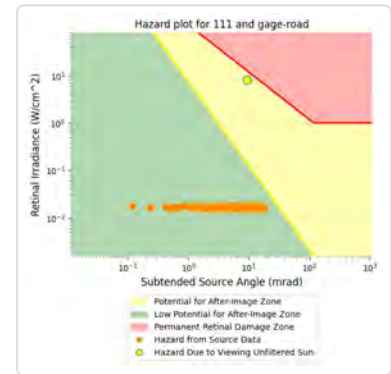
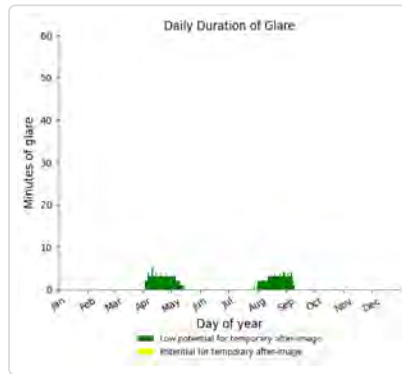
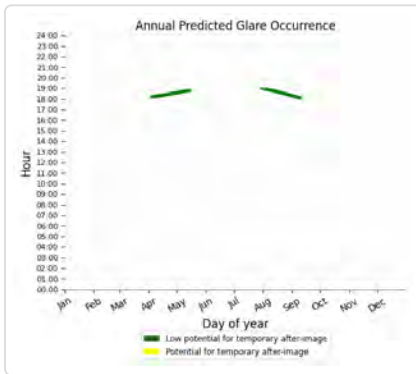
- 344 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: Gage Road

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

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



111: Hinkleville Road

No glare found

111: Randy Williams Road

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

113 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	206	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0

OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	172	0
Route: Davis Road north segment	68	0
Route: Davis Road south segment	648	0
Route: Gage Road	430	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

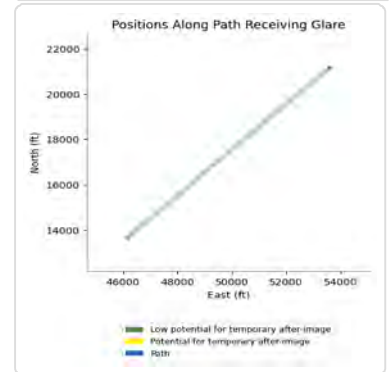
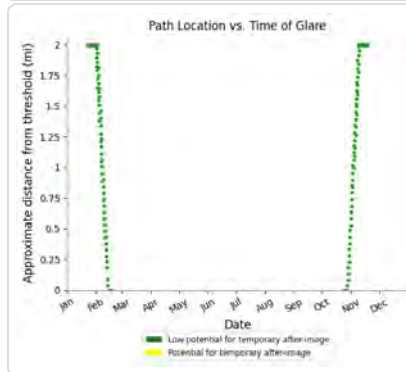
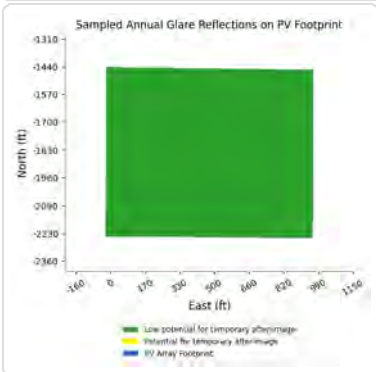
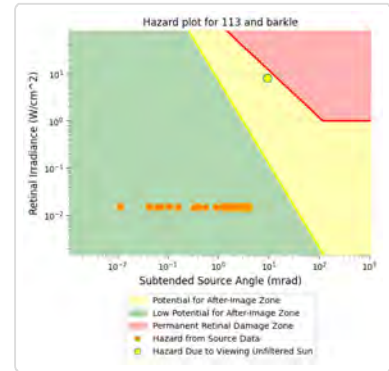
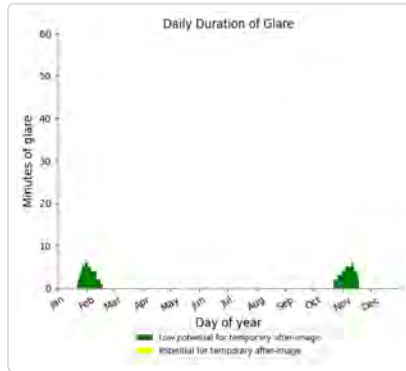
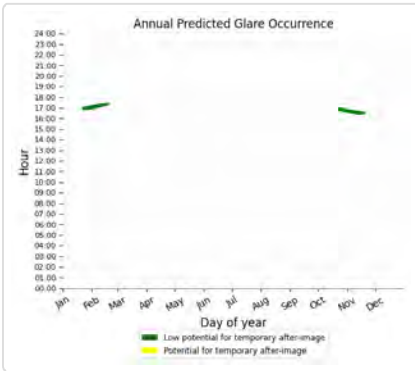
113: Barkley Regional Airport Runway 14

No glare found

113: Barkley Regional Airport Runway 23

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

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



113: Barkley Regional Airport Runway 32

No glare found

113: Barkley Regional Airport Runway 5

No glare found

113: 1-ATCT

No glare found

113: OP 2

No glare found

113: OP 3

No glare found

113: OP 4

No glare found

113: OP 5

No glare found

113: OP 6

No glare found

113: OP 7

No glare found

113: OP 8

No glare found

113: OP 9

No glare found

113: OP 10

No glare found

113: OP 11

No glare found

113: OP 12

No glare found

113: OP 13

No glare found

113: OP 14

No glare found

113: OP 15

No glare found

113: OP 16

No glare found

113: OP 17

No glare found

113: OP 18

No glare found

113: OP 19

No glare found

113: OP 20

No glare found

113: OP 21

No glare found

113: OP 22

No glare found

113: OP 23

No glare found

113: OP 24

No glare found

113: OP 25

No glare found

113: OP 26

No glare found

113: OP 27

No glare found

113: OP 28

No glare found

113: OP 29

No glare found

113: OP 30

No glare found

113: OP 31

No glare found

113: OP 32

No glare found

113: OP 33

No glare found

113: OP 34

No glare found

113: OP 35

No glare found

113: OP 36

No glare found

113: OP 37

No glare found

113: OP 38

No glare found

113: OP 39

No glare found

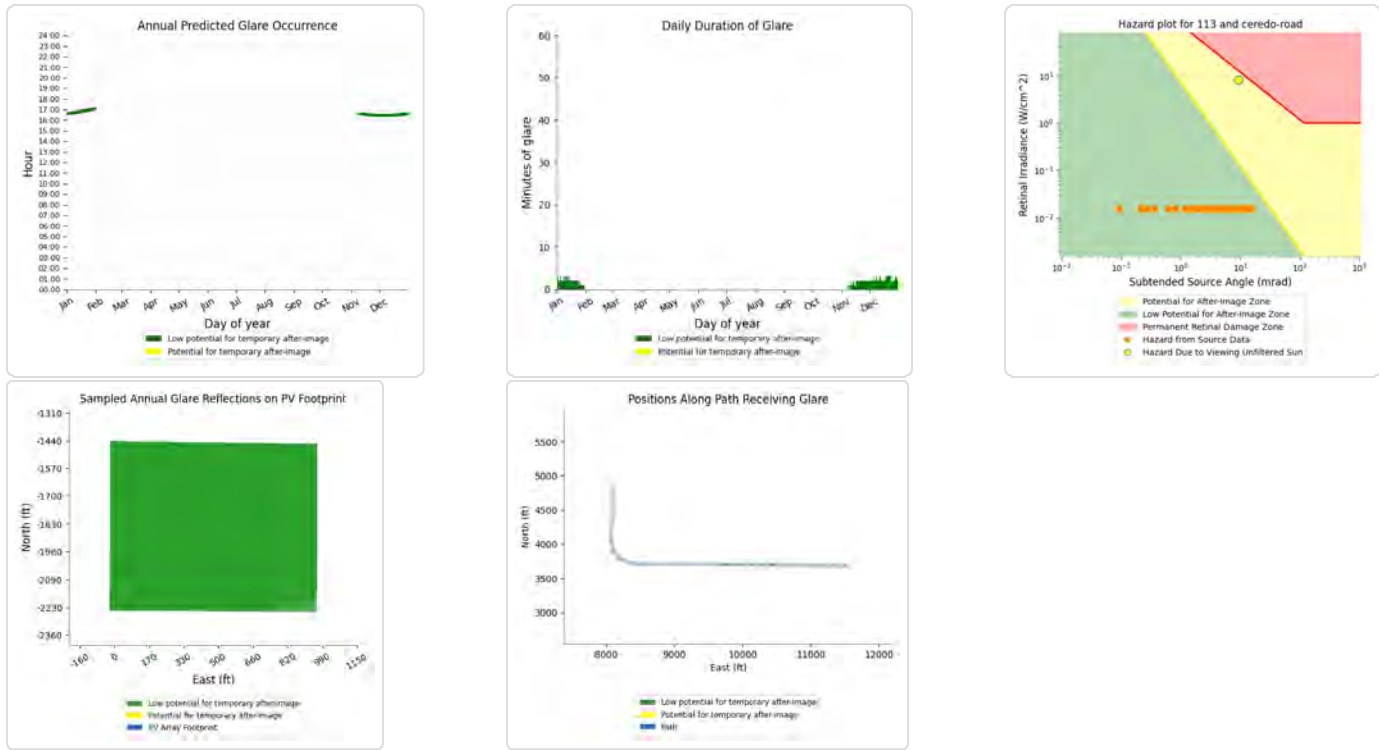
113: OP 40

No glare found

113: Ceredo Road

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

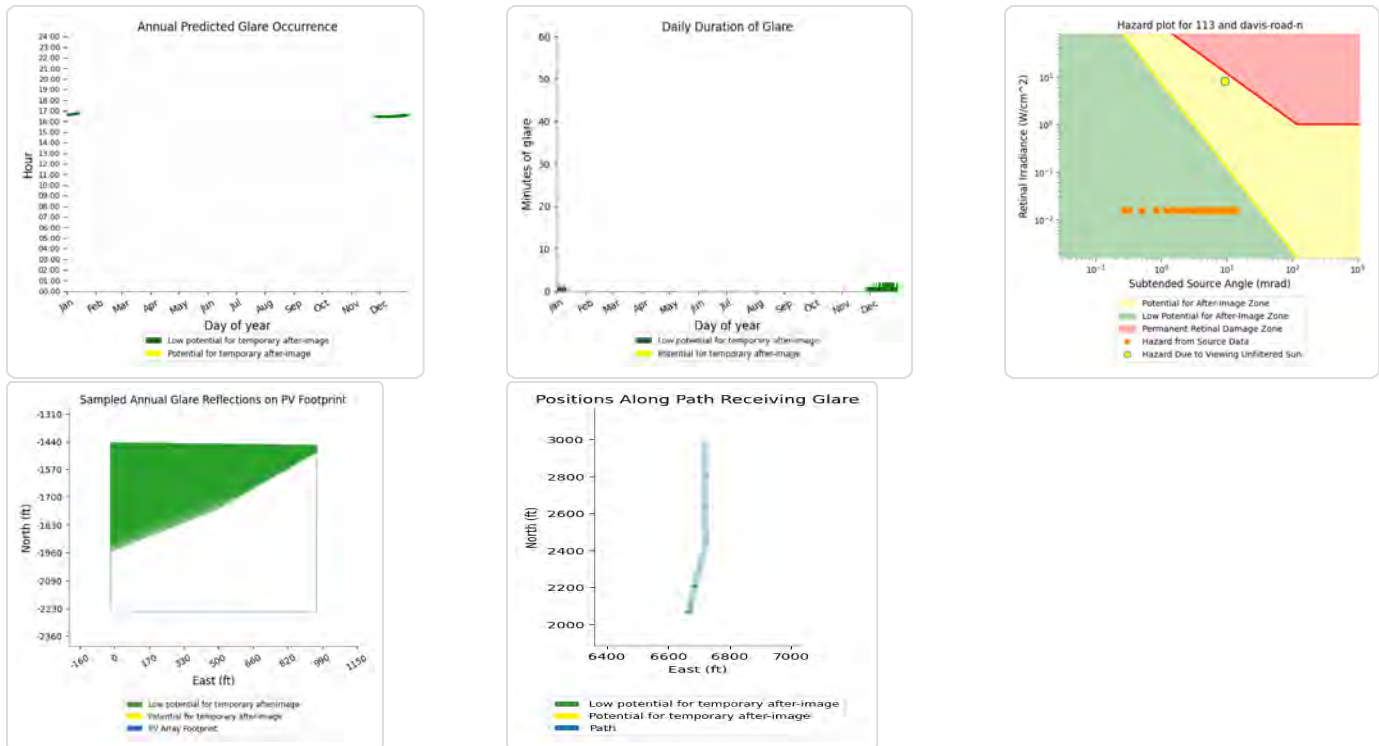
- 172 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



113: Davis Road north segment

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

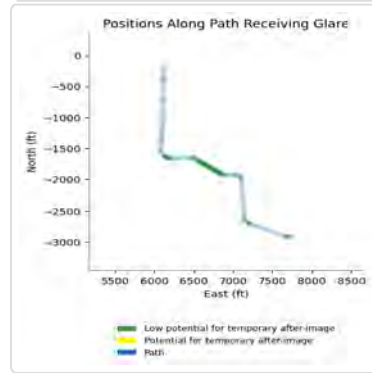
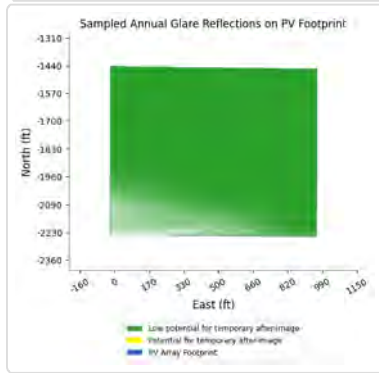
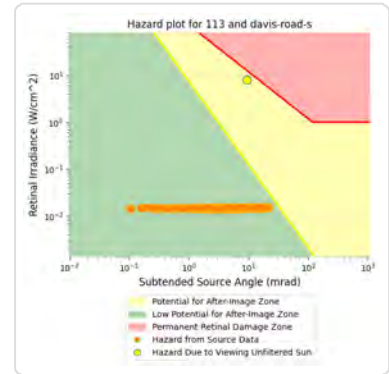
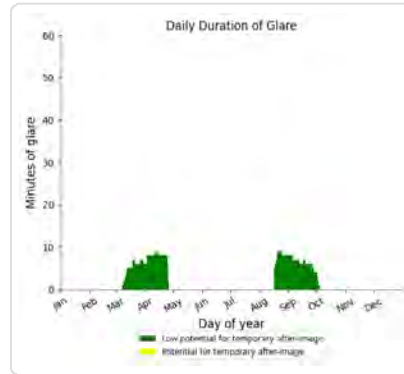
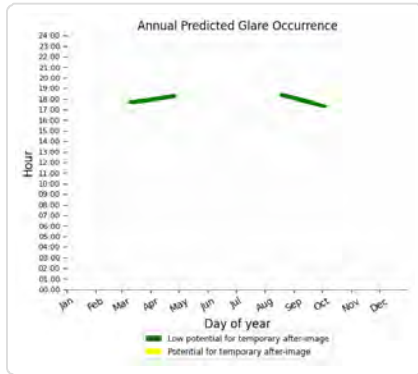
- 68 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



113: Davis Road south segment

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

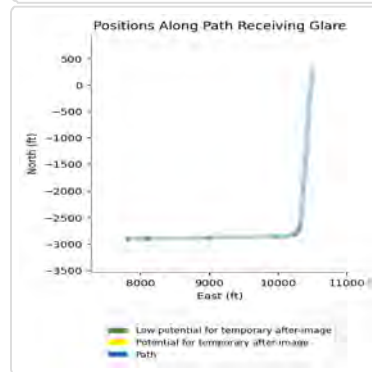
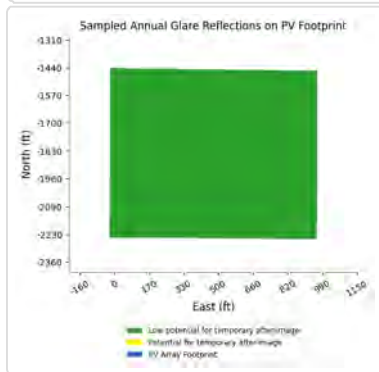
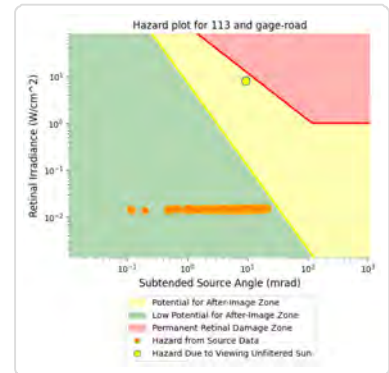
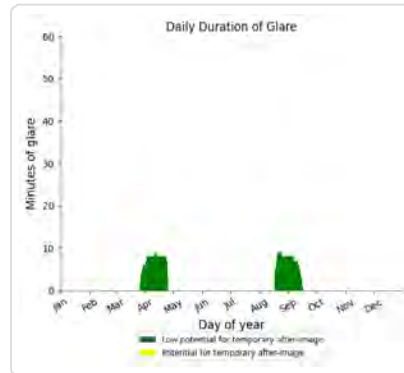
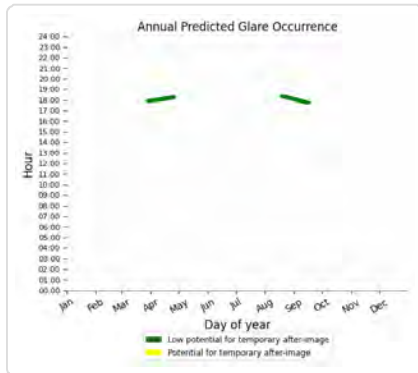
- 648 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



113: Gage Road

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

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



113: Hinkleville Road

No glare found

113: Randy Williams Road

No glare found

114 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	465	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0

OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	581	0
Route: Davis Road north segment	242	0
Route: Davis Road south segment	769	0
Route: Gage Road	455	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

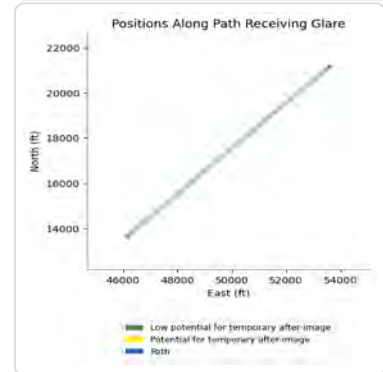
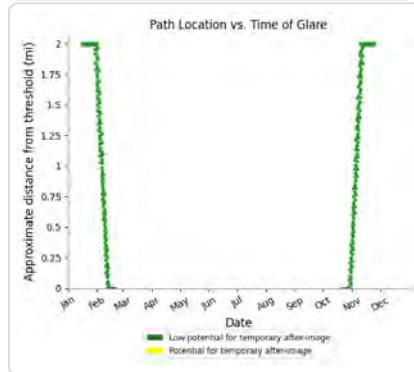
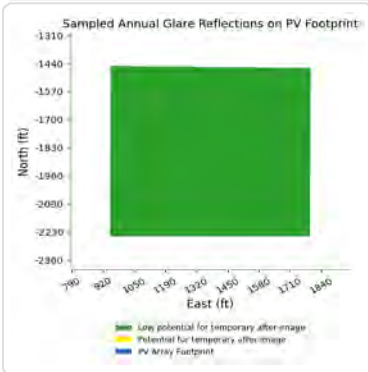
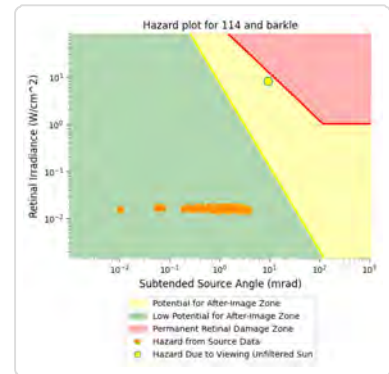
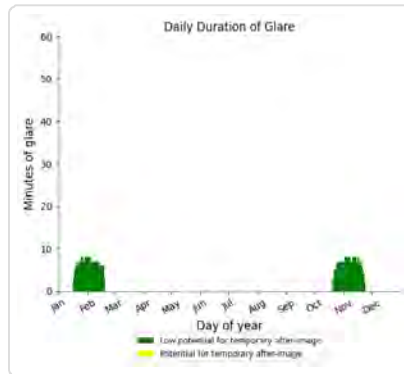
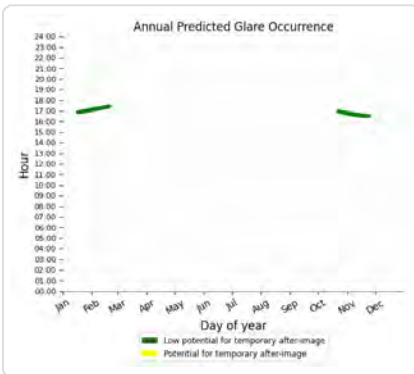
114: Barkley Regional Airport Runway 14

No glare found

114: Barkley Regional Airport Runway 23

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

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



114: Barkley Regional Airport Runway 32

No glare found

114: Barkley Regional Airport Runway 5

No glare found

114: 1-ATCT

No glare found

114: OP 2

No glare found

114: OP 3

No glare found

114: OP 4

No glare found

114: OP 5

No glare found

114: OP 6

No glare found

114: OP 7

No glare found

114: OP 8

No glare found

114: OP 9

No glare found

114: OP 10

No glare found

114: OP 11

No glare found

114: OP 12

No glare found

114: OP 13

No glare found

114: OP 14

No glare found

114: OP 15

No glare found

114: OP 16

No glare found

114: OP 17

No glare found

114: OP 18

No glare found

114: OP 19

No glare found

114: OP 20

No glare found

114: OP 21

No glare found

114: OP 22

No glare found

114: OP 23

No glare found

114: OP 24

No glare found

114: OP 25

No glare found

114: OP 26

No glare found

114: OP 27

No glare found

114: OP 28

No glare found

114: OP 29

No glare found

114: OP 30

No glare found

114: OP 31

No glare found

114: OP 32

No glare found

114: OP 33

No glare found

114: OP 34

No glare found

114: OP 35

No glare found

114: OP 36

No glare found

114: OP 37

No glare found

114: OP 38

No glare found

114: OP 39

No glare found

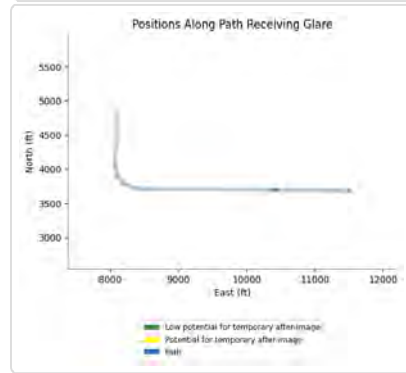
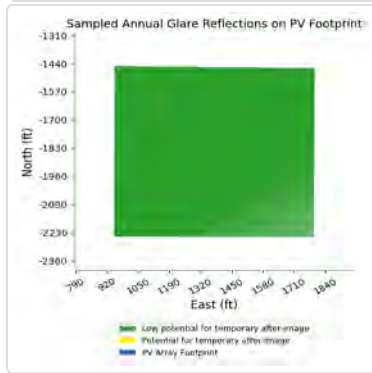
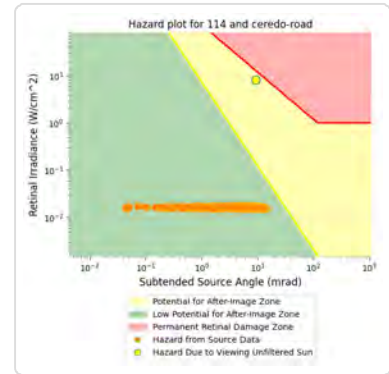
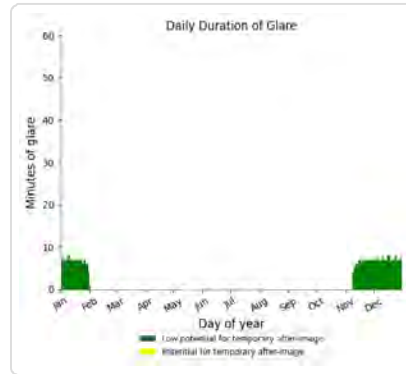
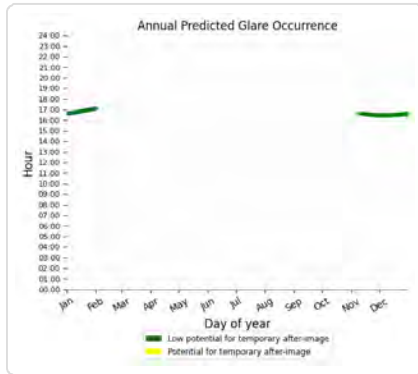
114: OP 40

No glare found

114: Ceredo Road

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

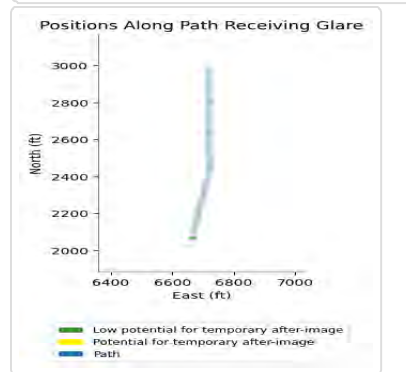
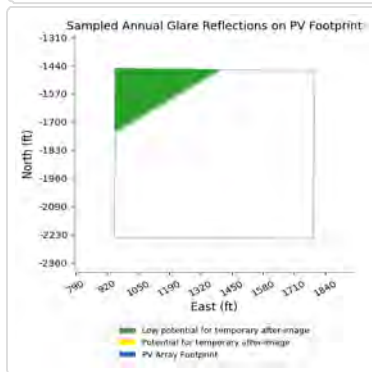
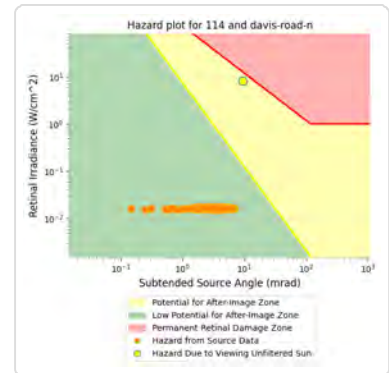
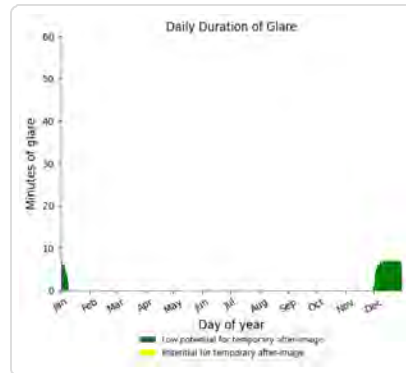
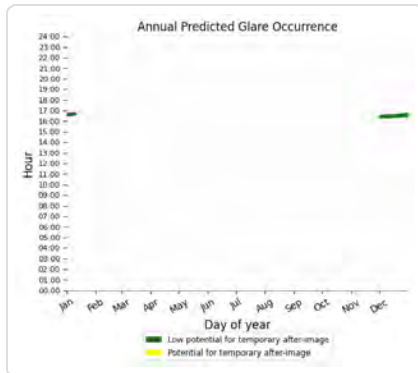
- 581 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



114: Davis Road north segment

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

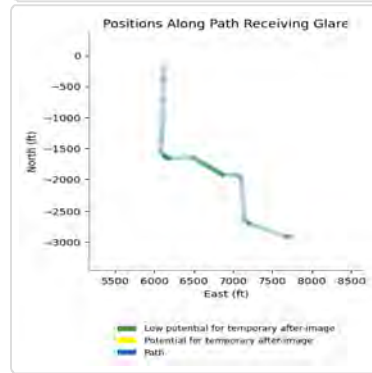
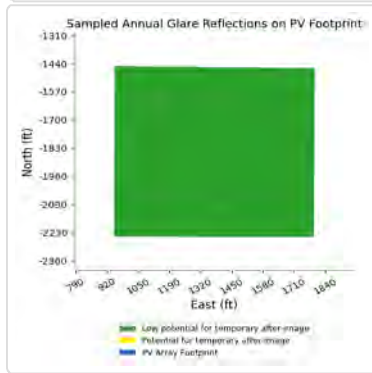
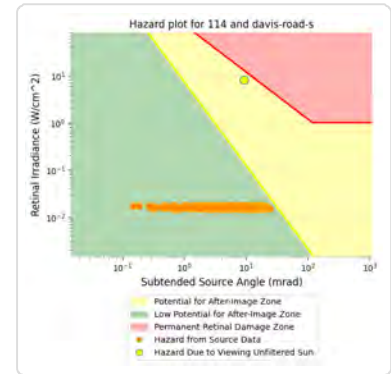
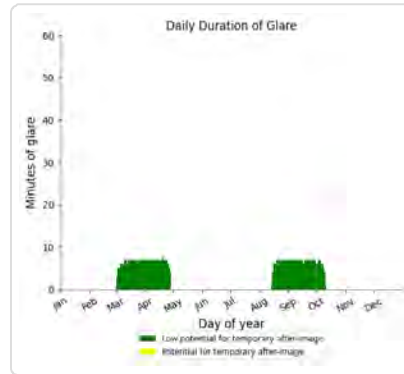
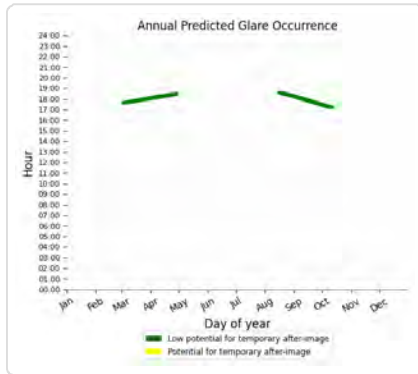
- 242 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



114: Davis Road south segment

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

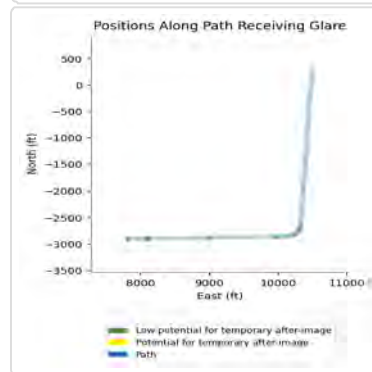
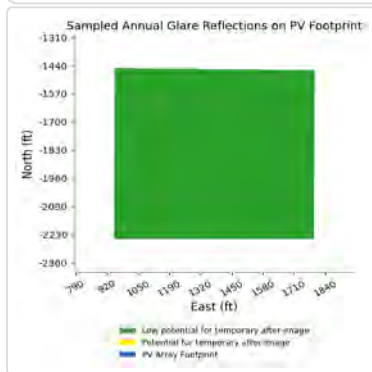
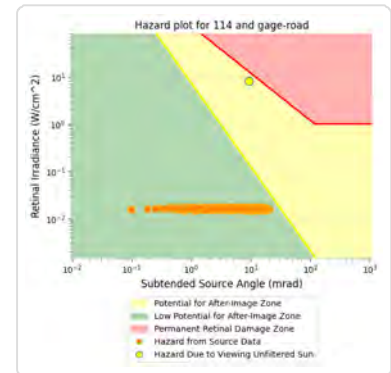
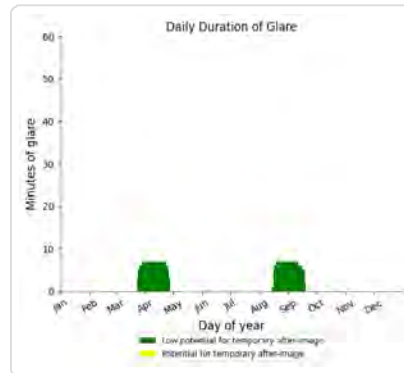
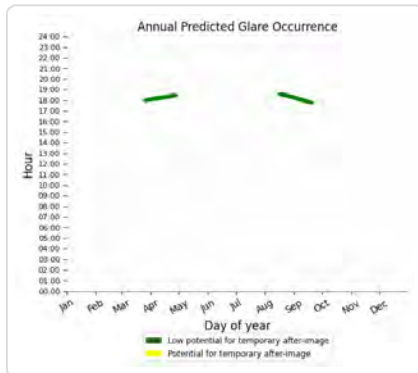
- 769 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



114: Gage Road

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

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



114: Hinkleville Road

No glare found

114: Randy Williams Road

No glare found

115 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	523	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	91	0
OP: OP 14	20	0
OP: OP 15	42	0
OP: OP 16	80	0
OP: OP 17	0	0
OP: OP 18	54	0
OP: OP 19	47	0
OP: OP 20	49	0
OP: OP 21	44	0
OP: OP 22	52	0
OP: OP 23	54	0
OP: OP 24	60	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	26	0
OP: OP 30	66	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
Route: Ceredo Road	633	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	1450	0
Route: Gage Road	785	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

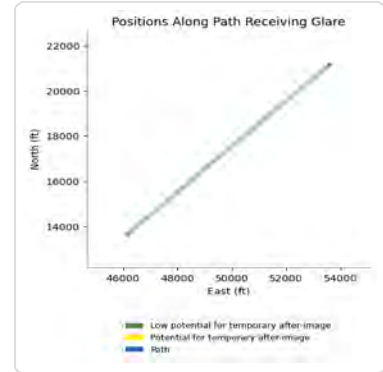
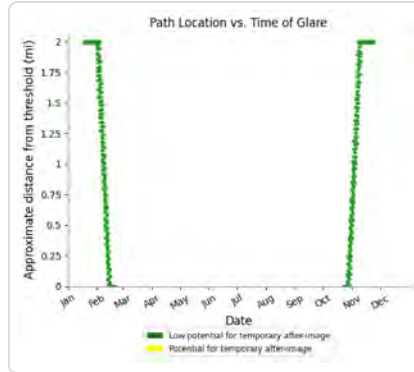
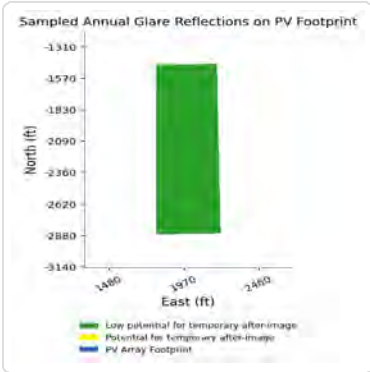
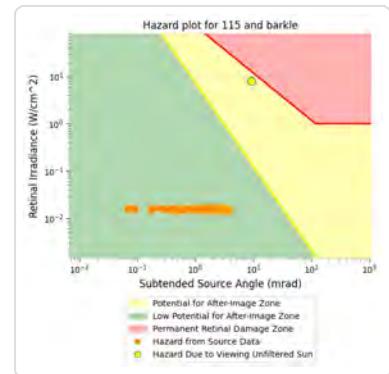
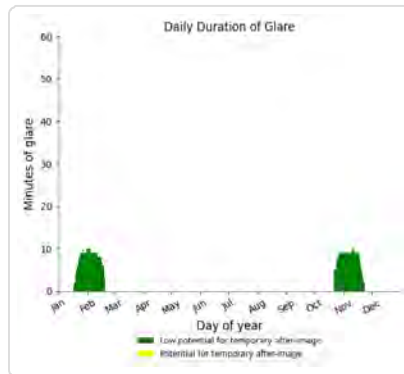
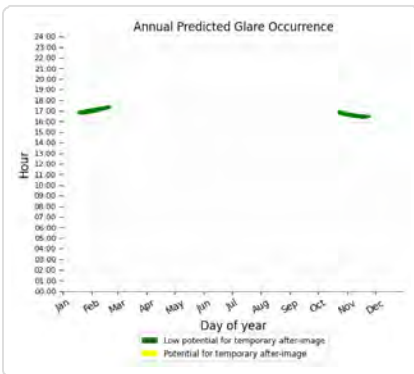
115: Barkley Regional Airport Runway 14

No glare found

115: Barkley Regional Airport Runway 23

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

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



115: Barkley Regional Airport Runway 32

No glare found

115: Barkley Regional Airport Runway 5

No glare found

115: 1-ATCT

No glare found

115: OP 2

No glare found

115: OP 3

No glare found

115: OP 4

No glare found

115: OP 5

No glare found

115: OP 6

No glare found

115: OP 7

No glare found

115: OP 8

No glare found

115: OP 9

No glare found

115: OP 10

No glare found

115: OP 11

No glare found

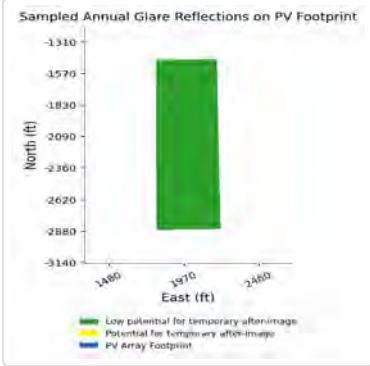
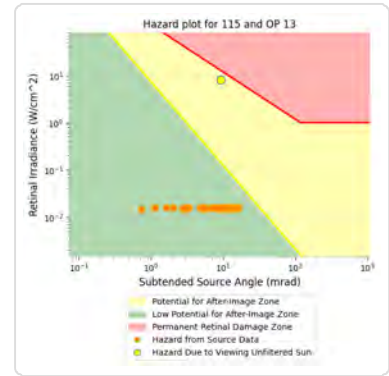
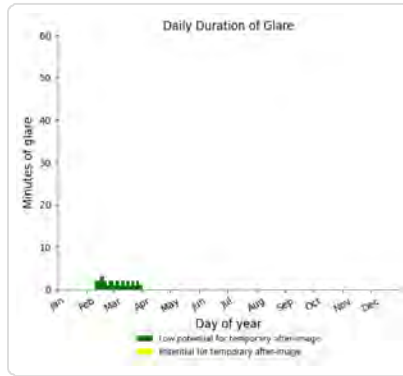
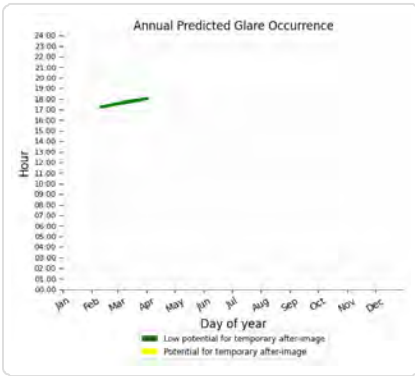
115: OP 12

No glare found

115: OP 13

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

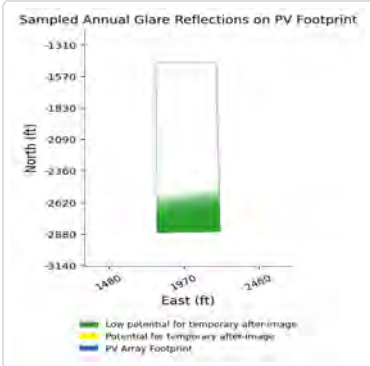
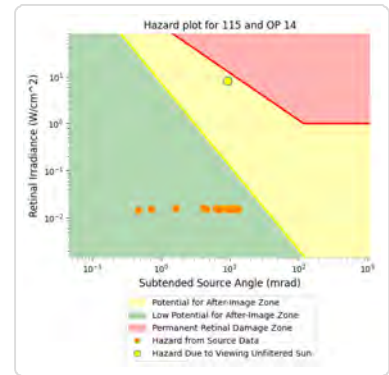
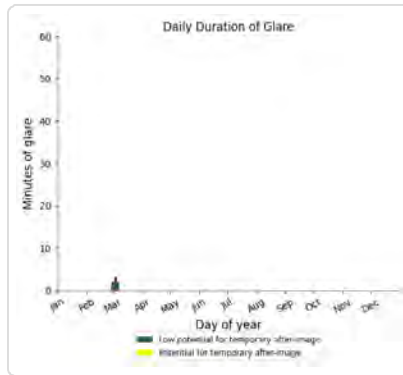
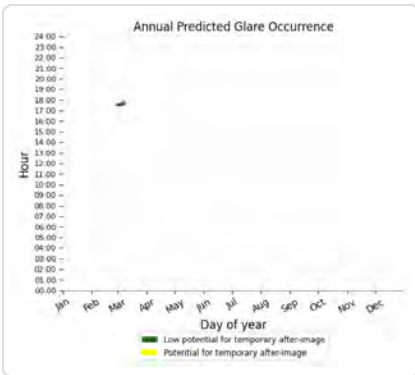
- 91 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 14

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

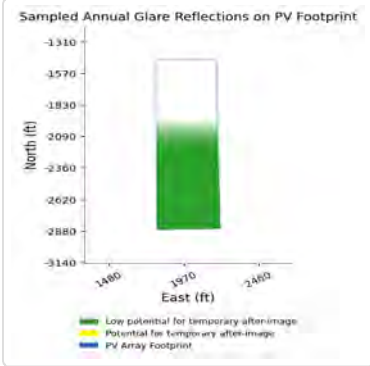
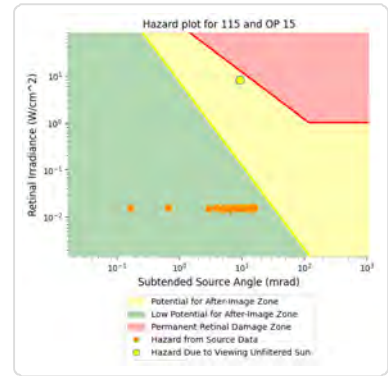
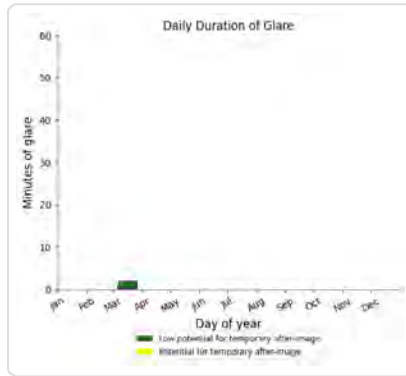
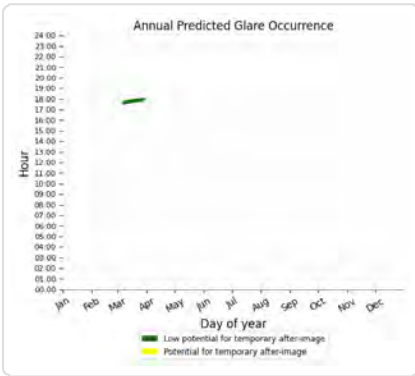
- 20 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 15

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

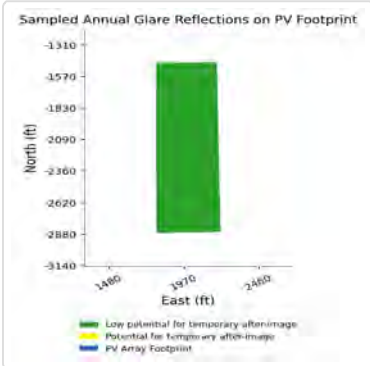
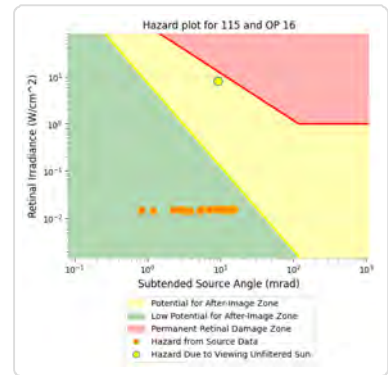
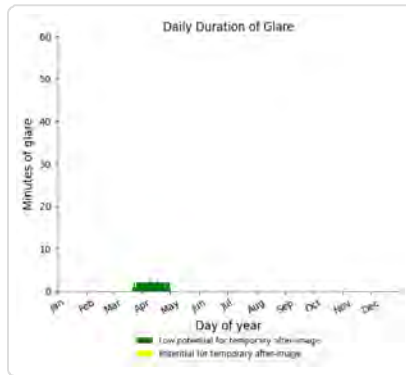
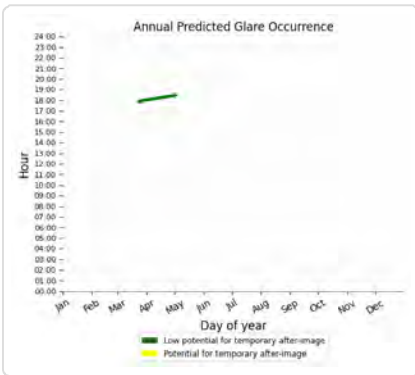
- 42 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 16

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

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



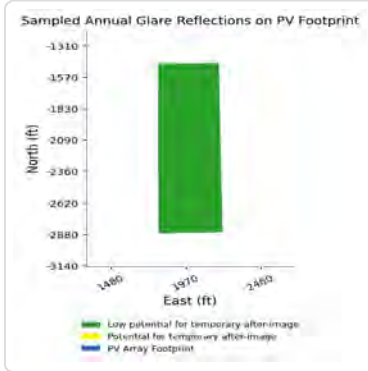
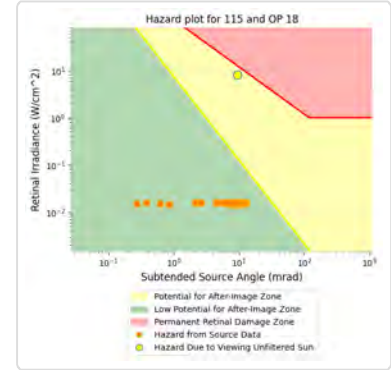
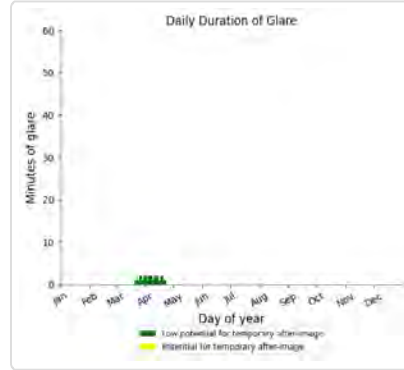
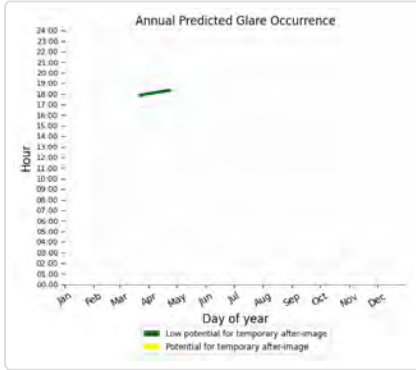
115: OP 17

No glare found

115: OP 18

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

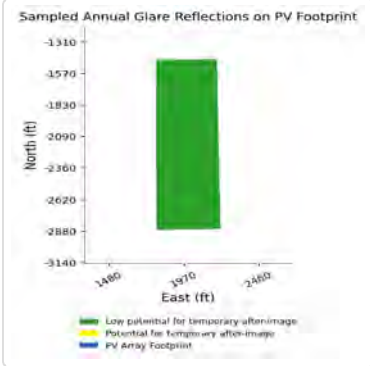
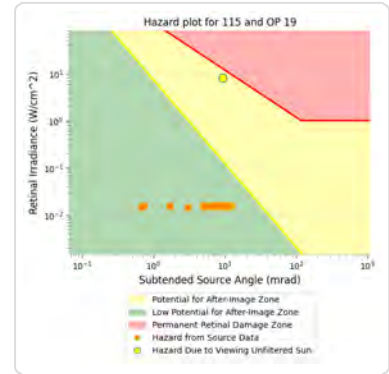
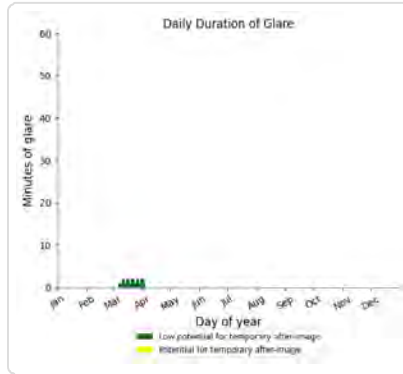
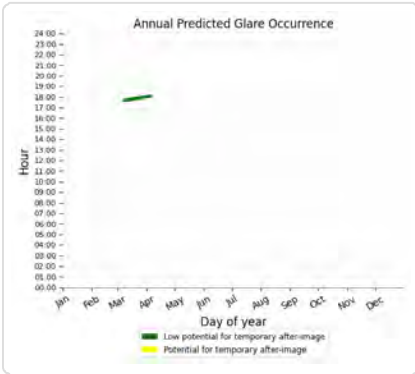
- 54 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 19

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

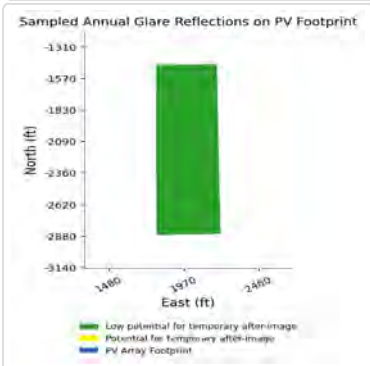
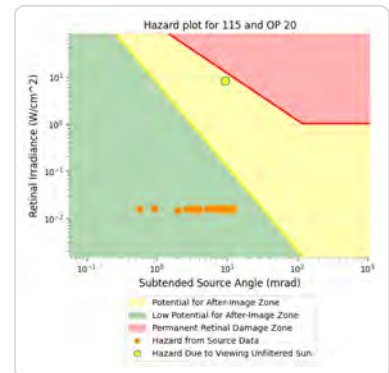
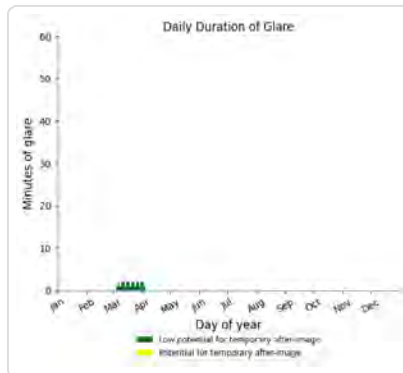
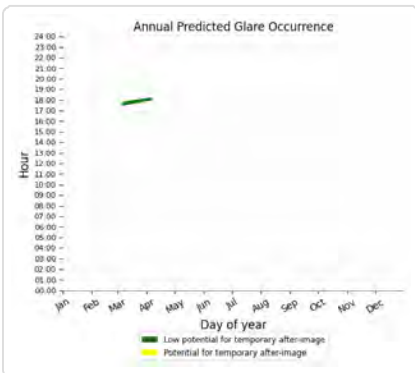
- 47 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 20

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

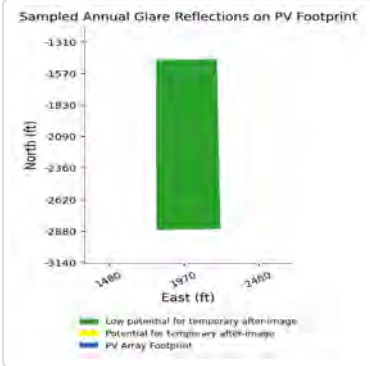
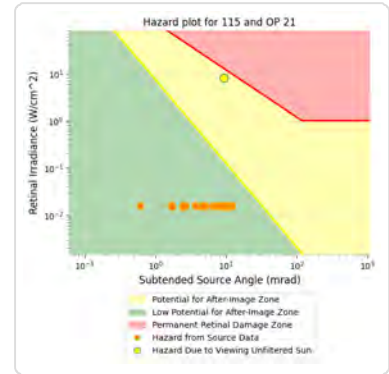
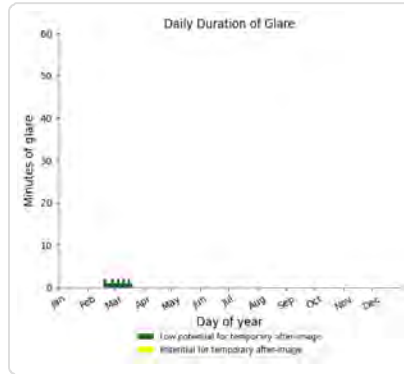
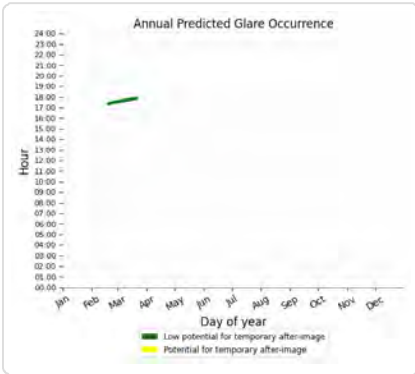
- 49 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 21

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

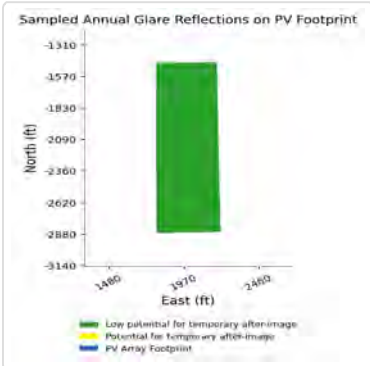
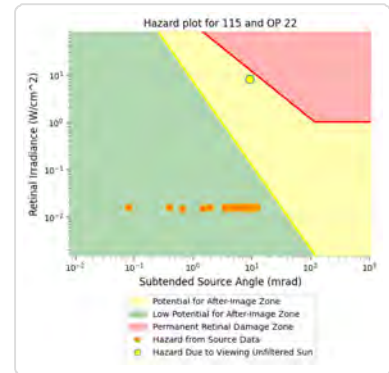
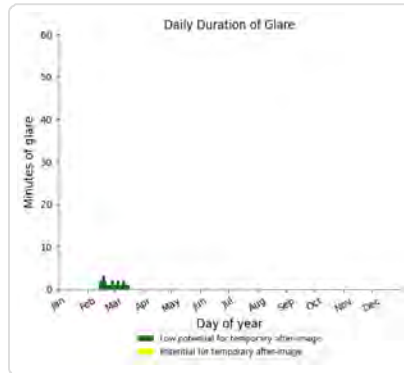
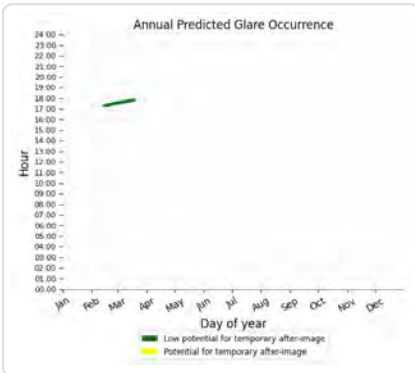
- 44 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 22

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

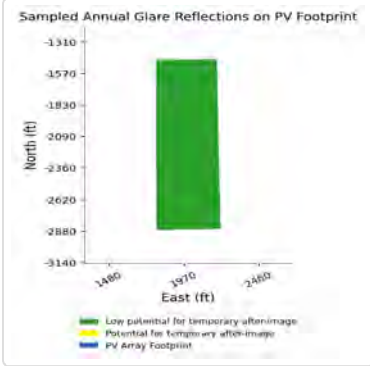
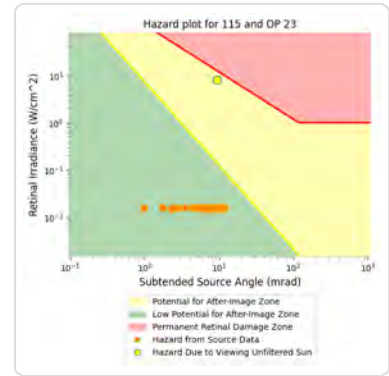
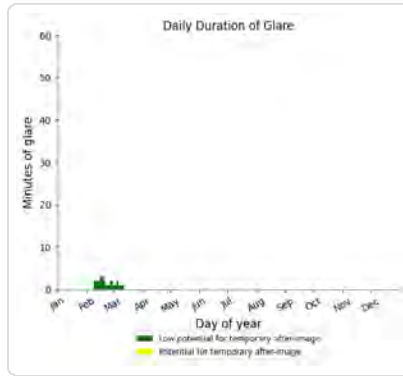
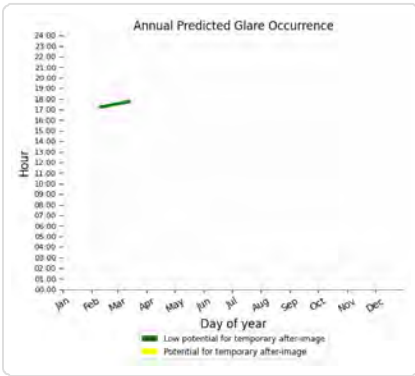
- 52 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 23

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

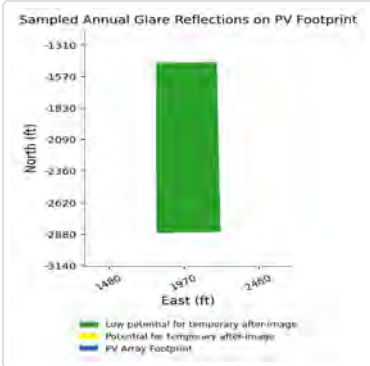
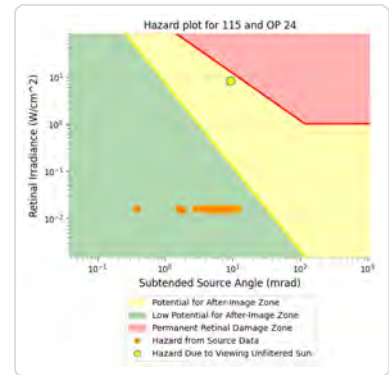
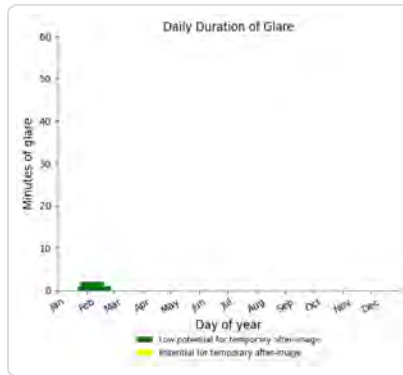
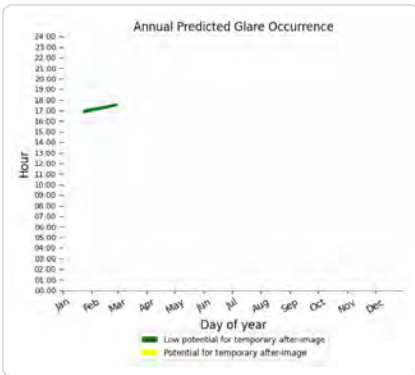
- 54 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 24

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

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



115: OP 25

No glare found

115: OP 26

No glare found

115: OP 27

No glare found

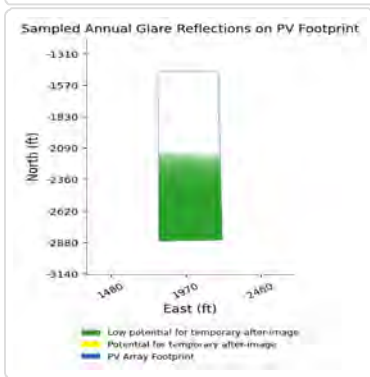
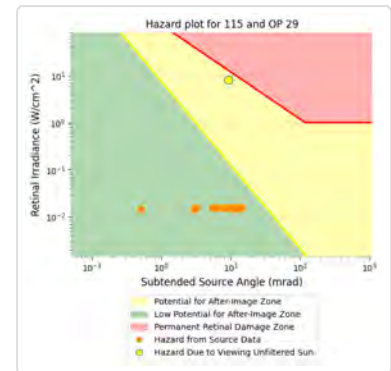
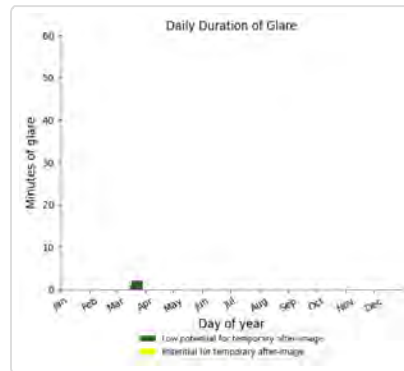
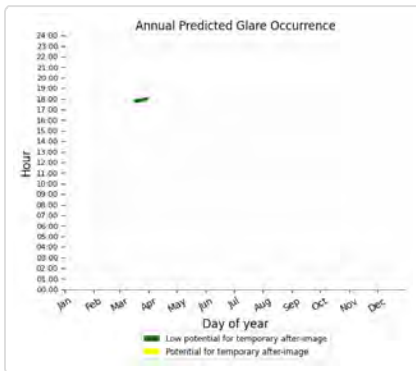
115: OP 28

No glare found

115: OP 29

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

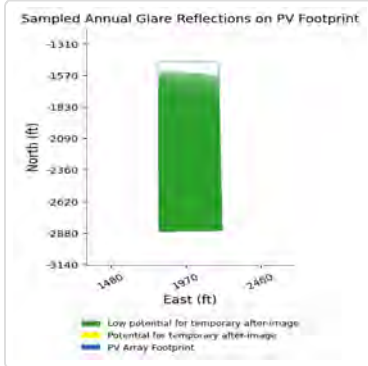
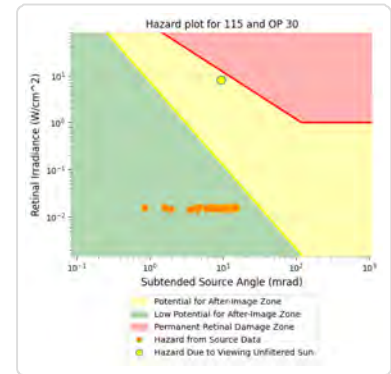
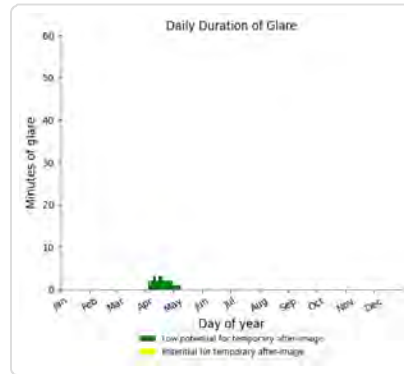
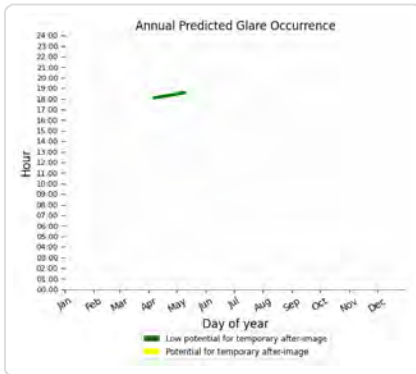
- 26 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 30

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

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



115: OP 31

No glare found

115: OP 32

No glare found

115: OP 33

No glare found

115: OP 34

No glare found

115: OP 35

No glare found

115: OP 36

No glare found

115: OP 37

No glare found

115: OP 38

No glare found

115: OP 39

No glare found

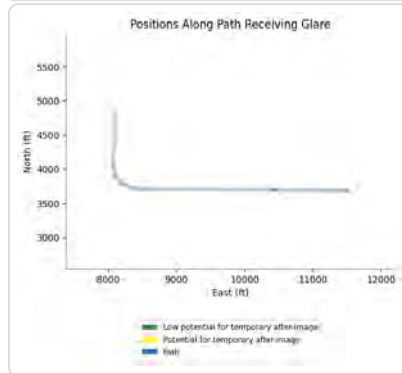
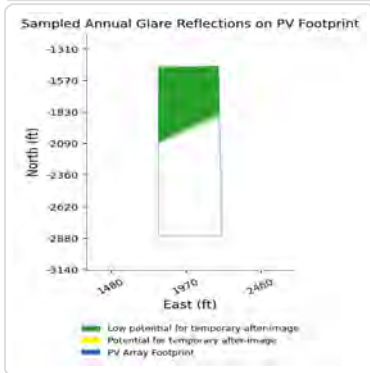
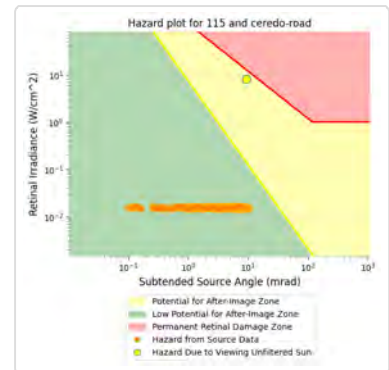
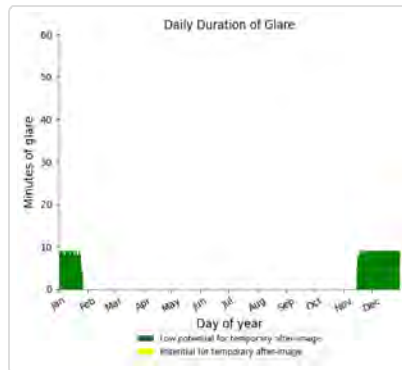
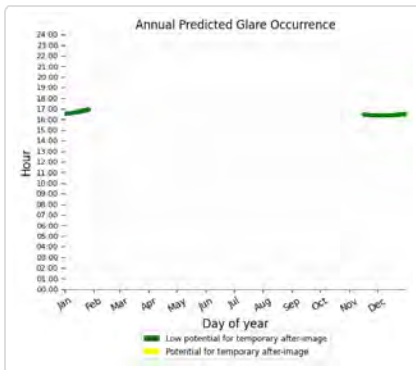
115: OP 40

No glare found

115: Ceredo Road

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

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



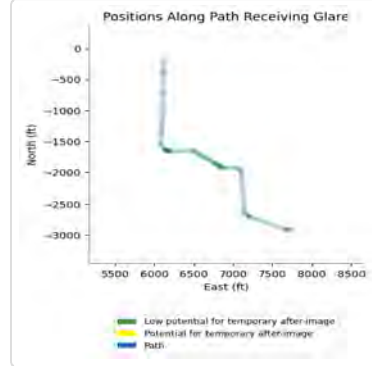
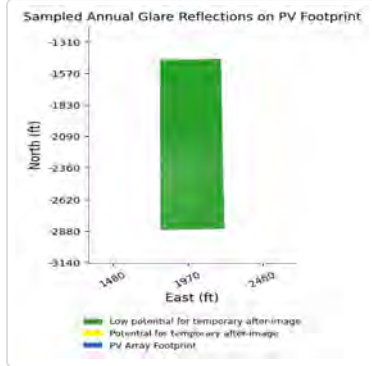
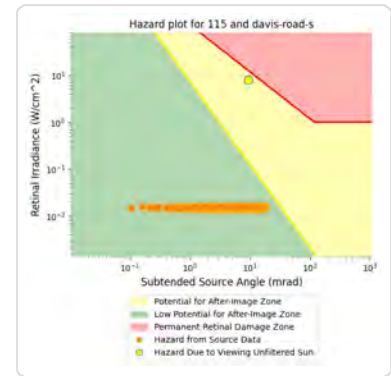
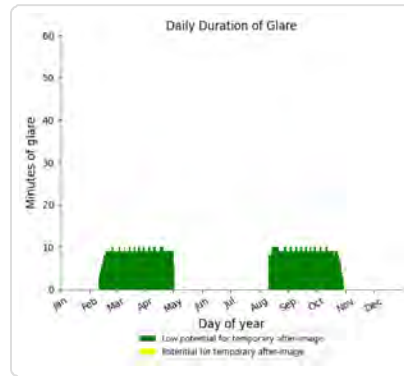
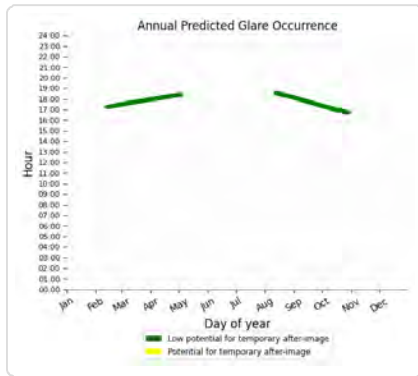
115: Davis Road north segment

No glare found

115: Davis Road south segment

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

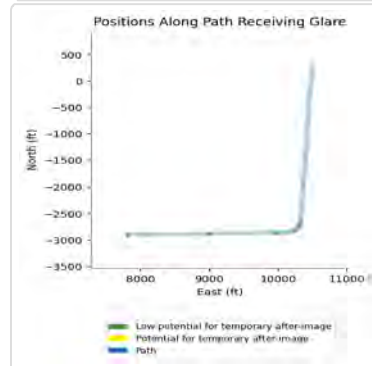
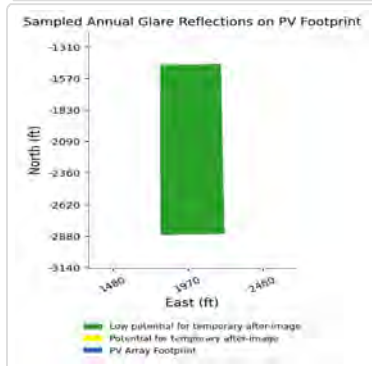
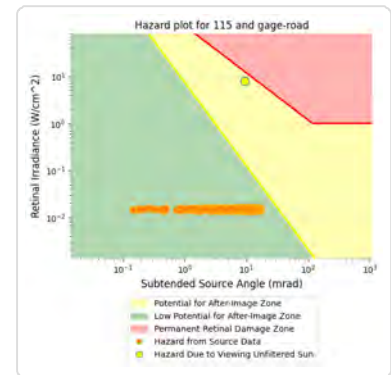
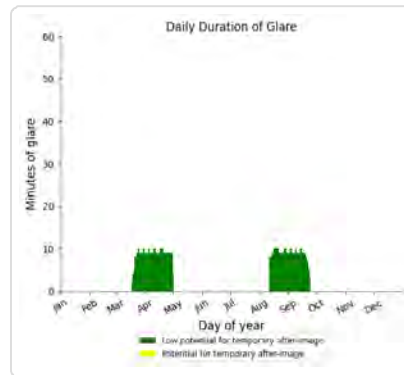
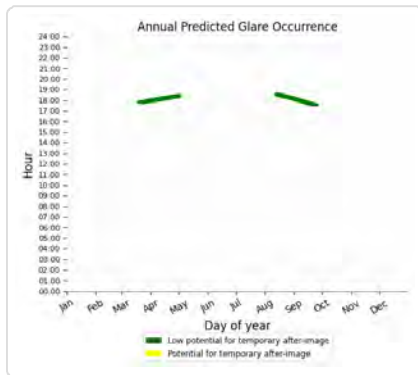
- 1,450 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: Gage Road

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

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



115: Hinkleville Road

No glare found

115: Randy Williams Road

No glare found

116 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	560	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	26	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0

OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	883	0
Route: Davis Road north segment	519	0
Route: Davis Road south segment	695	0
Route: Gage Road	305	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

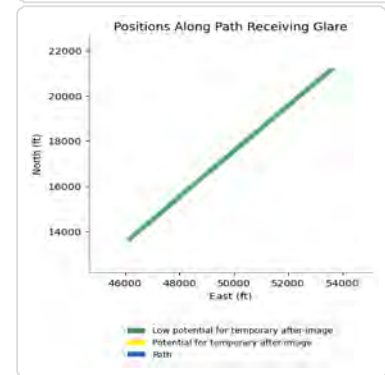
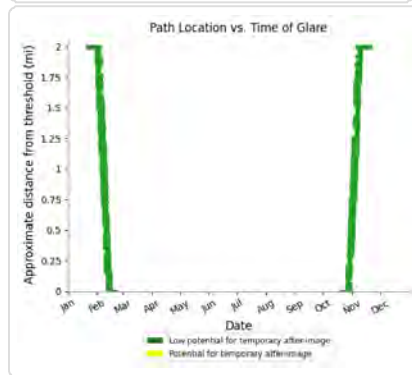
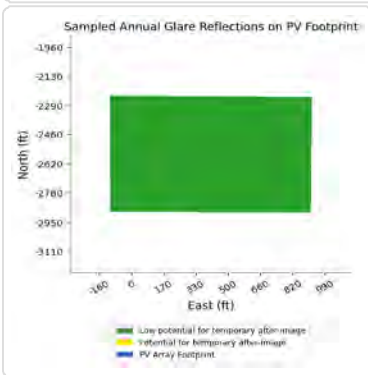
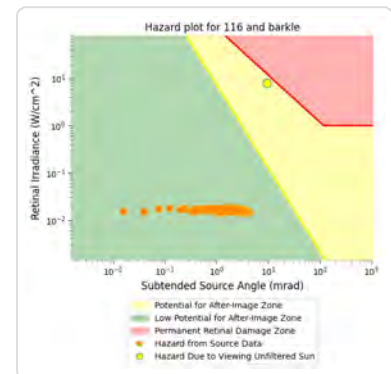
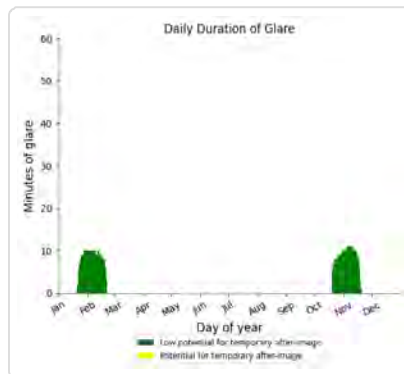
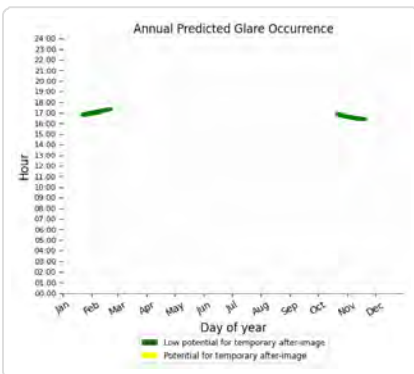
116: Barkley Regional Airport Runway 14

No glare found

116: Barkley Regional Airport Runway 23

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

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



116: Barkley Regional Airport Runway 32

No glare found

116: Barkley Regional Airport Runway 5

No glare found

116: 1-ATCT

No glare found

116: OP 2

No glare found

116: OP 3

No glare found

116: OP 4

No glare found

116: OP 5

No glare found

116: OP 6

No glare found

116: OP 7

No glare found

116: OP 8

No glare found

116: OP 9

No glare found

116: OP 10

No glare found

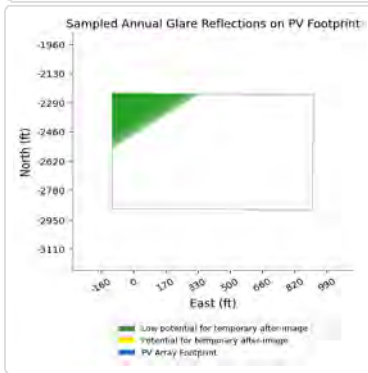
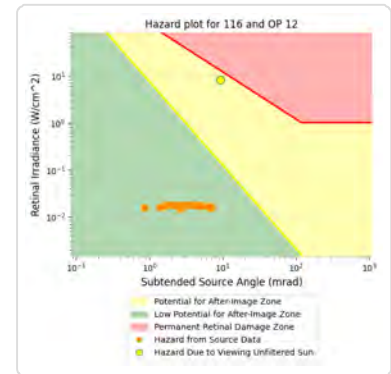
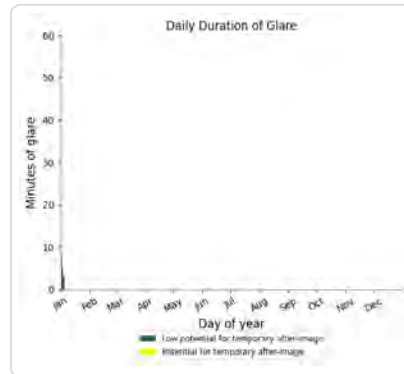
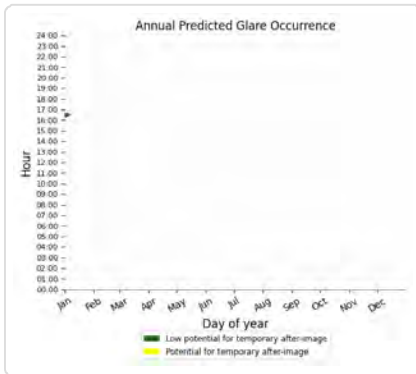
116: OP 11

No glare found

116: OP 12

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

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



116: OP 13

No glare found

116: OP 14

No glare found

116: OP 15

No glare found

116: OP 16

No glare found

116: OP 17

No glare found

116: OP 18

No glare found

116: OP 19

No glare found

116: OP 20

No glare found

116: OP 21

No glare found

116: OP 22

No glare found

116: OP 23

No glare found

116: OP 24

No glare found

116: OP 25

No glare found

116: OP 26

No glare found

116: OP 27

No glare found

116: OP 28

No glare found

116: OP 29

No glare found

116: OP 30

No glare found

116: OP 31

No glare found

116: OP 32

No glare found

116: OP 33

No glare found

116: OP 34

No glare found

116: OP 35

No glare found

116: OP 36

No glare found

116: OP 37

No glare found

116: OP 38

No glare found

116: OP 39

No glare found

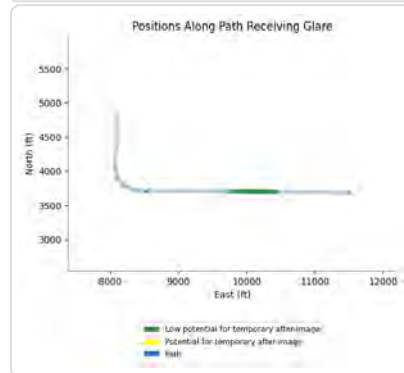
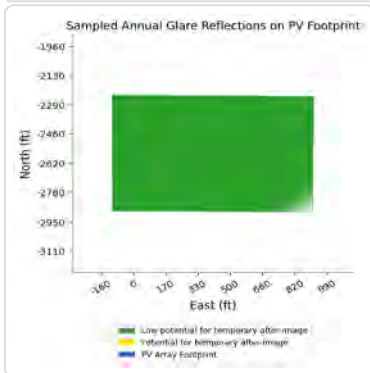
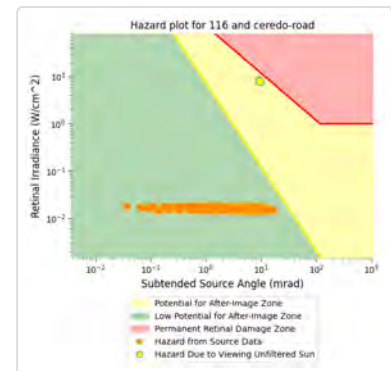
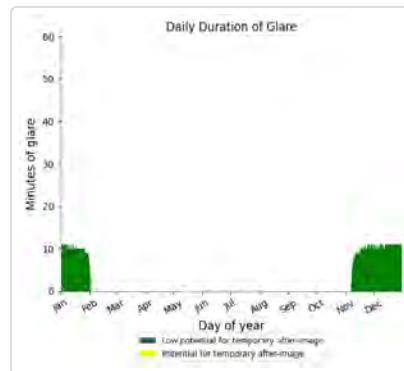
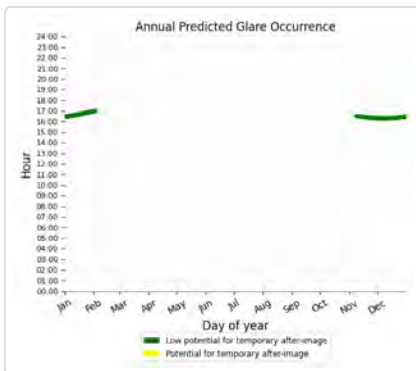
116: OP 40

No glare found

116: Ceredo Road

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

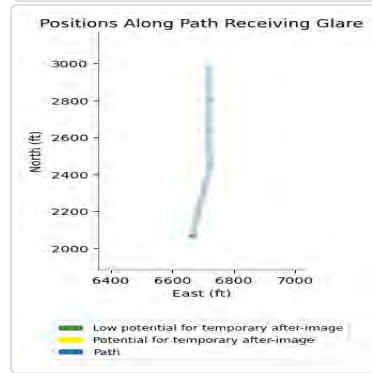
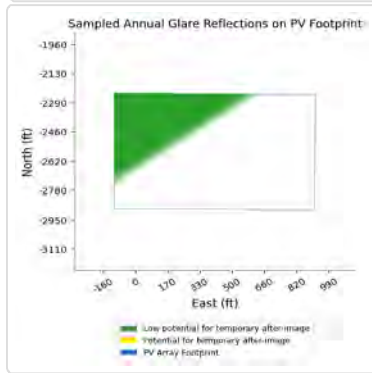
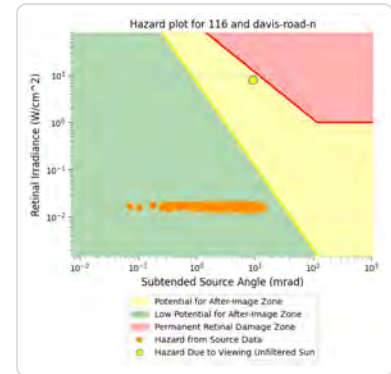
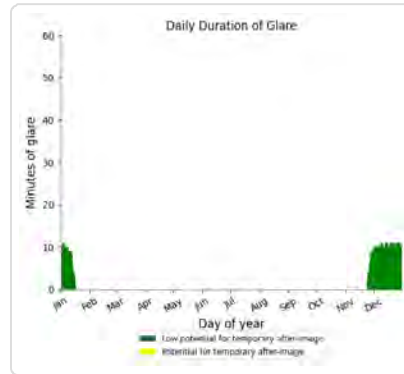
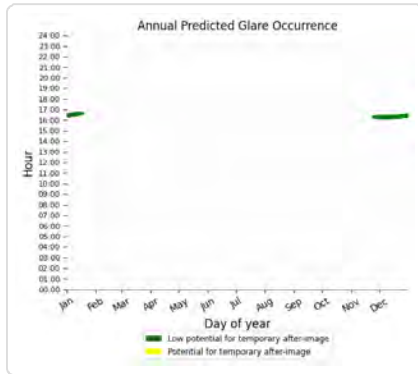
- 883 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



116: Davis Road north segment

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

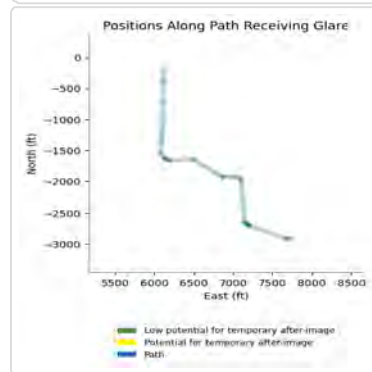
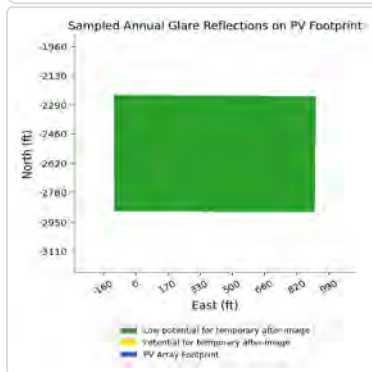
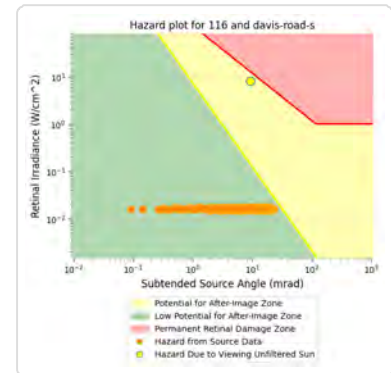
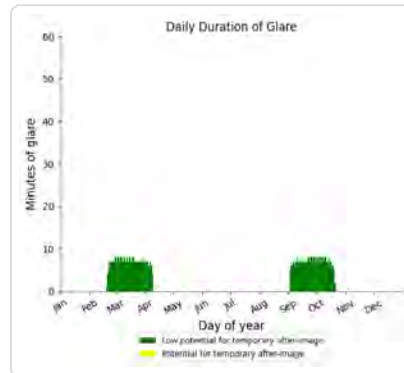
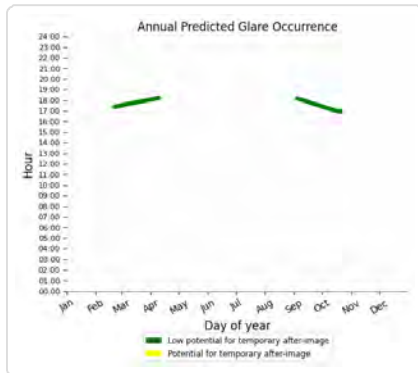
- 519 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



116: Davis Road south segment

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

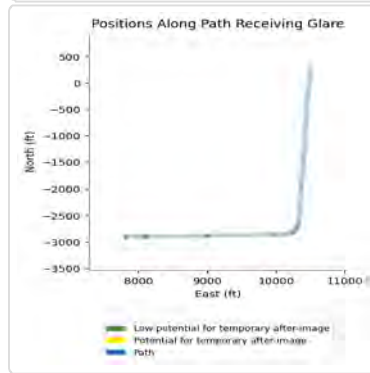
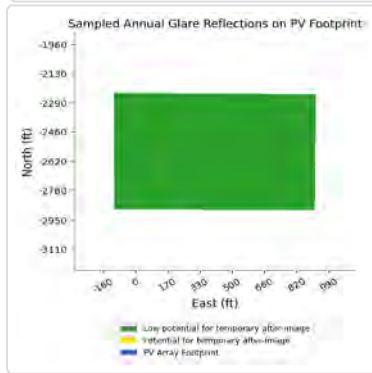
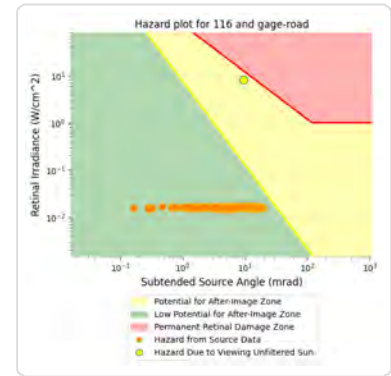
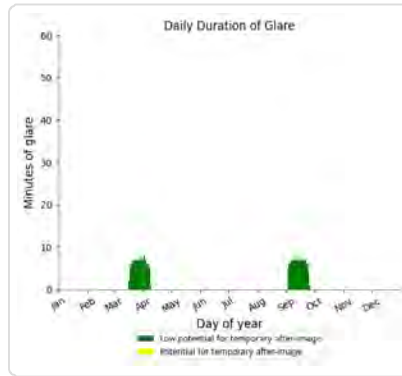
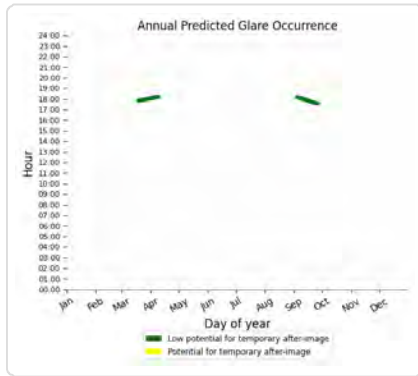
- 695 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



116: Gage Road

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

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



116: Hinkleville Road

No glare found

116: Randy Williams Road

No glare found

117 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	532	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	28	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0

OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	46	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
Route: Ceredo Road	817	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	848	0
Route: Gage Road	261	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

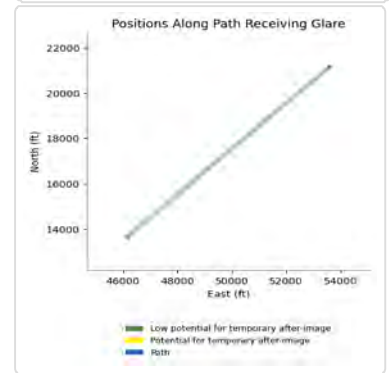
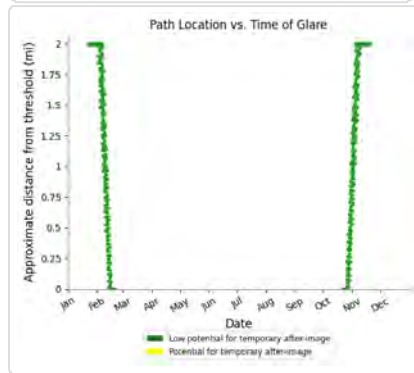
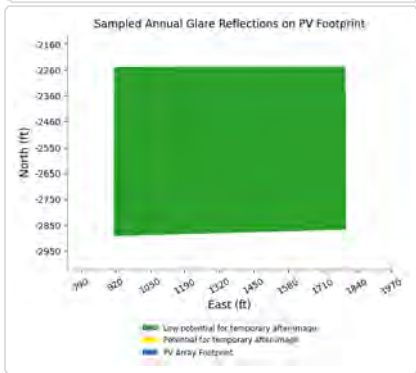
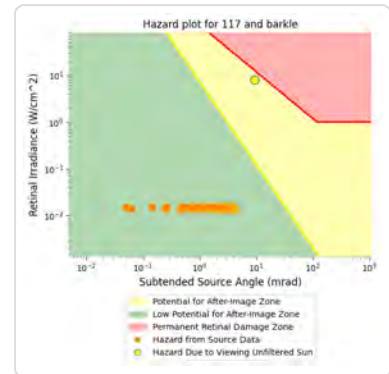
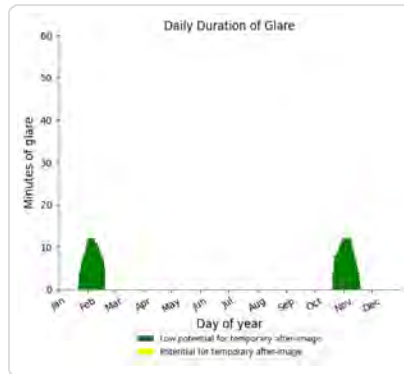
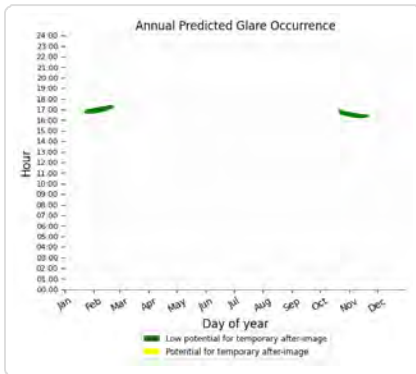
117: Barkley Regional Airport Runway 14

No glare found

117: Barkley Regional Airport Runway 23

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

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



117: Barkley Regional Airport Runway 32

No glare found

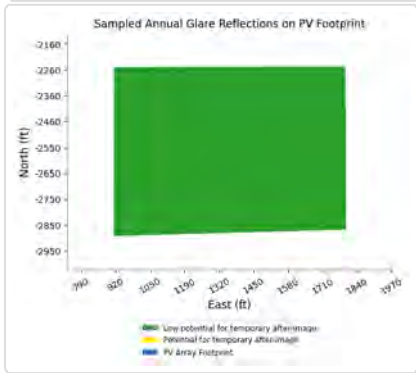
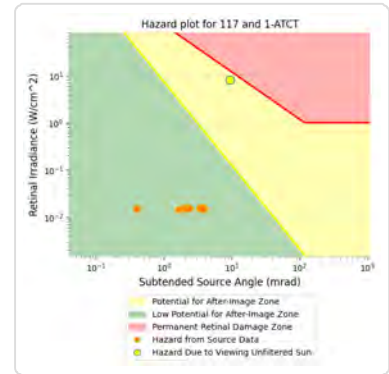
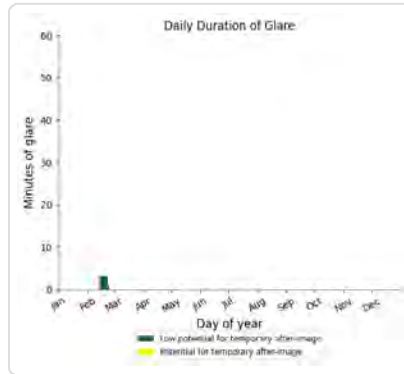
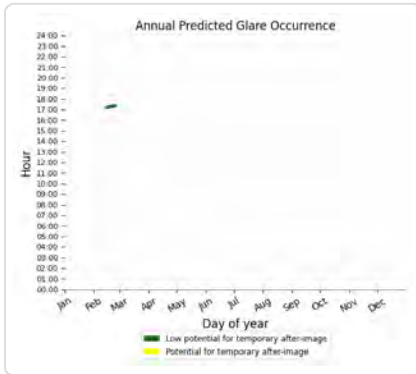
117: Barkley Regional Airport Runway 5

No glare found

117: 1-ATCT

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

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



117: OP 2

No glare found

117: OP 3

No glare found

117: OP 4

No glare found

117: OP 5

No glare found

117: OP 6

No glare found

117: OP 7

No glare found

117: OP 8

No glare found

117: OP 9

No glare found

117: OP 10

No glare found

117: OP 11

No glare found

117: OP 12

No glare found

117: OP 13

No glare found

117: OP 14

No glare found

117: OP 15

No glare found

117: OP 16

No glare found

117: OP 17

No glare found

117: OP 18

No glare found

117: OP 19

No glare found

117: OP 20

No glare found

117: OP 21

No glare found

117: OP 22

No glare found

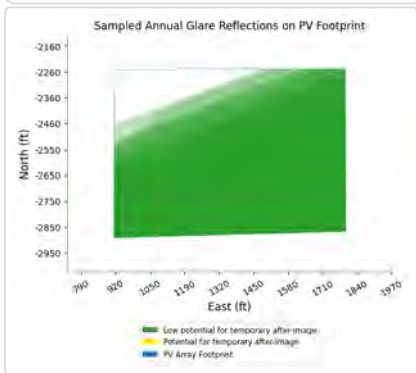
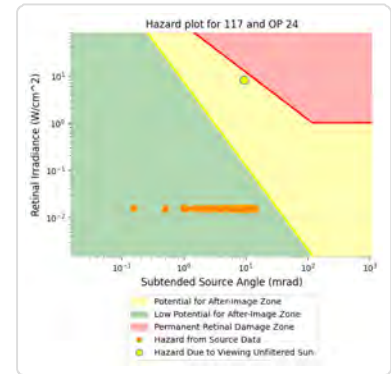
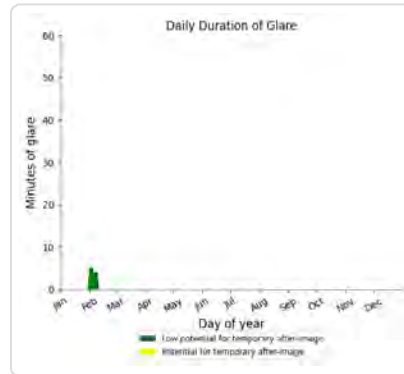
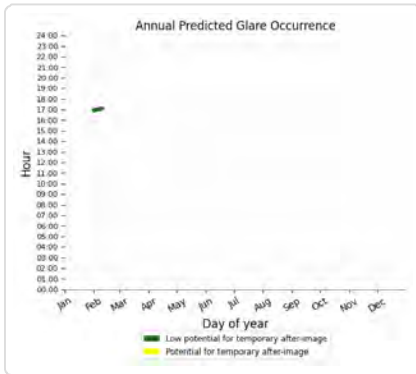
117: OP 23

No glare found

117: OP 24

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

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



117: OP 25

No glare found

117: OP 26

No glare found

117: OP 27

No glare found

117: OP 28

No glare found

117: OP 29

No glare found

117: OP 30

No glare found

117: OP 31

No glare found

117: OP 32

No glare found

117: OP 33

No glare found

117: OP 34

No glare found

117: OP 35

No glare found

117: OP 36

No glare found

117: OP 37

No glare found

117: OP 38

No glare found

117: OP 39

No glare found

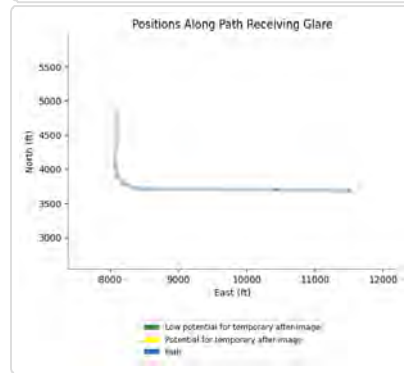
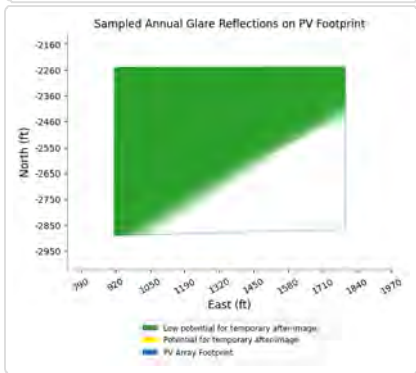
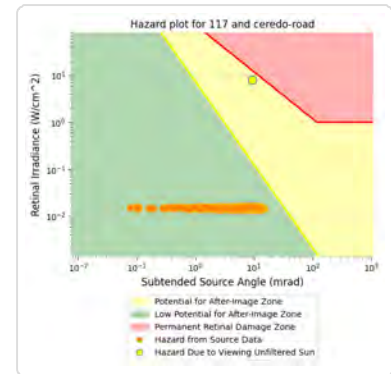
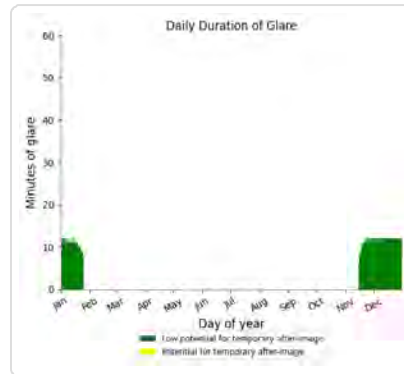
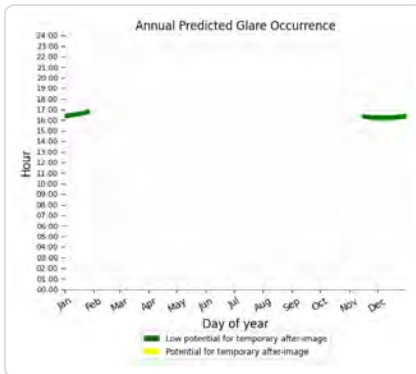
117: OP 40

No glare found

117: Ceredo Road

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

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



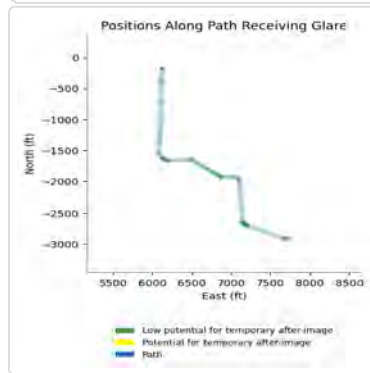
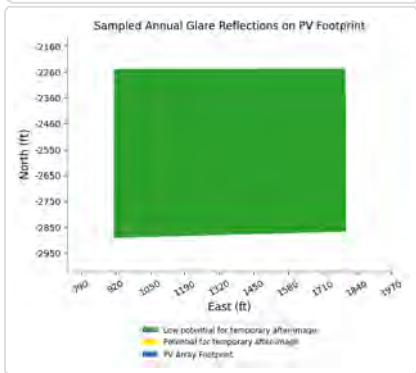
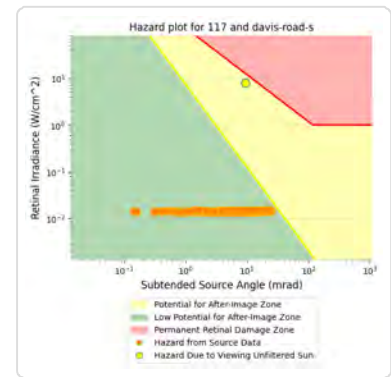
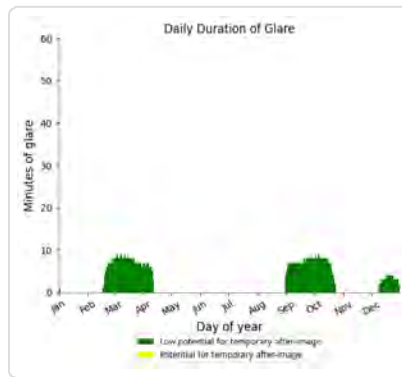
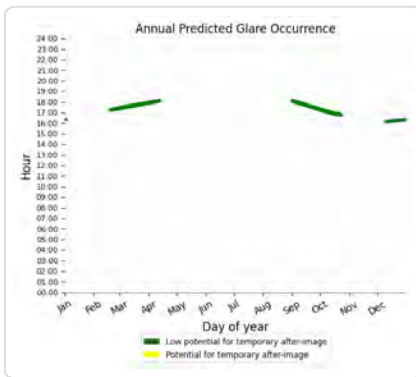
117: Davis Road north segment

No glare found

117: Davis Road south segment

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

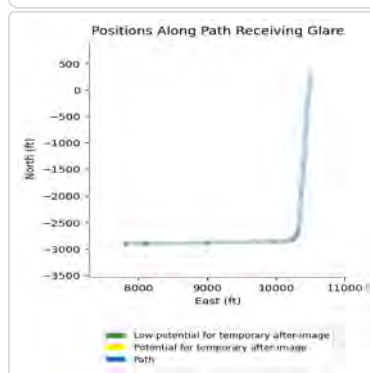
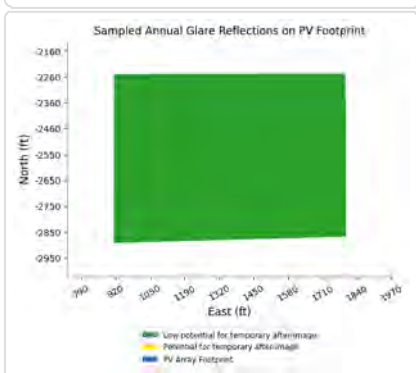
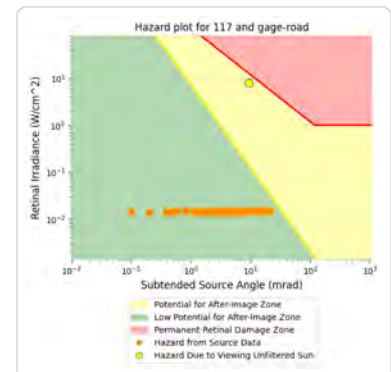
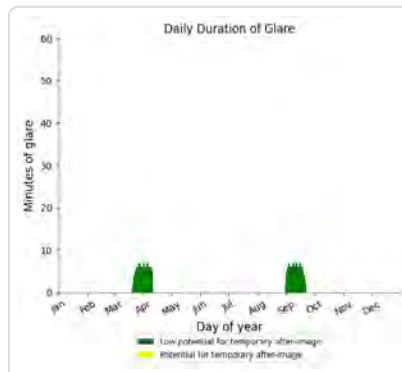
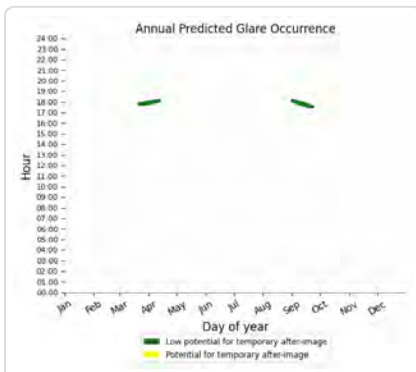
- 848 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



117: Gage Road

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

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



117: Hinkleville Road

No glare found

117: Randy Williams Road

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 1 5ft vehicles 10 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98028.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
101	SA tracking	SA tracking	0	0	-
102	SA tracking	SA tracking	0	0	-
103	SA tracking	SA tracking	0	0	-
104	SA tracking	SA tracking	0	0	-
105	SA tracking	SA tracking	0	0	-
106	SA tracking	SA tracking	0	0	-
107	SA tracking	SA tracking	0	0	-
108	SA tracking	SA tracking	0	0	-
109	SA tracking	SA tracking	0	0	-
110	SA tracking	SA tracking	0	0	-
111	SA tracking	SA tracking	0	0	-
112	SA tracking	SA tracking	0	0	-
113	SA tracking	SA tracking	0	0	-
114	SA tracking	SA tracking	0	0	-
115	SA tracking	SA tracking	0	0	-
116	SA tracking	SA tracking	0	0	-
117	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 243.4 acres

Name: 101

Footprint area: 13.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

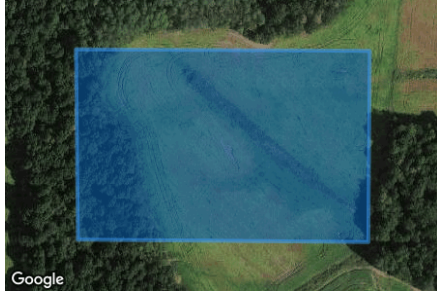
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.028688	-88.924307	502.68	7.50	510.18
2	37.028675	-88.921045	418.49	7.50	425.99
3	37.026992	-88.921061	405.95	7.50	413.45
4	37.027013	-88.924285	475.57	7.50	483.07

Name: 102

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.034498	-88.913072	379.74	7.50	387.24
2	37.034464	-88.909516	407.84	7.50	415.34
3	37.036271	-88.909510	422.93	7.50	430.43
4	37.036271	-88.913062	426.66	7.50	434.16

Name: 103

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036258	-88.913748	378.82	7.50	386.32
2	37.037654	-88.913705	406.07	7.50	413.57
3	37.037710	-88.910068	450.29	7.50	457.79
4	37.036267	-88.910057	423.72	7.50	431.22

Name: 104

Footprint area: 16.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036267	-88.910057	423.72	7.50	431.22
2	37.038048	-88.910074	446.66	7.50	454.16
3	37.038112	-88.906340	465.83	7.50	473.33
4	37.036237	-88.906367	433.86	7.50	441.36

Name: 105

Footprint area: 9.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036262	-88.909516	422.52	7.50	430.02
2	37.035389	-88.909521	427.77	7.50	435.27
3	37.035474	-88.904650	432.43	7.50	439.93
4	37.036245	-88.904655	452.77	7.50	460.27

Name: 106

Footprint area: 15.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037277	-88.906345	460.52	7.50	468.02
2	37.037277	-88.902161	453.49	7.50	460.99
3	37.035483	-88.902140	465.22	7.50	472.72
4	37.035483	-88.904672	433.17	7.50	440.67
5	37.036241	-88.904655	452.39	7.50	459.89
6	37.036237	-88.906383	433.99	7.50	441.49

Name: 107

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027531	-88.897859	439.14	7.50	446.64
2	37.027612	-88.893122	468.46	7.50	475.96
3	37.027072	-88.893149	452.57	7.50	460.07
4	37.027064	-88.893476	459.66	7.50	467.16
5	37.026760	-88.893476	448.24	7.50	455.74
6	37.026687	-88.895692	449.77	7.50	457.27
7	37.025779	-88.895692	450.21	7.50	457.71
8	37.025783	-88.897279	438.36	7.50	445.86
9	37.026640	-88.897290	444.59	7.50	452.09
10	37.026631	-88.897843	442.31	7.50	449.81

Name: 108

Footprint area: 7.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025466	-88.894957	459.28	7.50	466.78
2	37.025119	-88.894957	463.29	7.50	470.79
3	37.025145	-88.895842	456.82	7.50	464.32
4	37.024550	-88.895842	440.59	7.50	448.09
5	37.024494	-88.894222	454.32	7.50	461.82
6	37.023972	-88.894227	453.70	7.50	461.20
7	37.023980	-88.893363	457.74	7.50	465.24
8	37.024494	-88.893353	461.03	7.50	468.53
9	37.024494	-88.892682	453.78	7.50	461.28
10	37.025458	-88.892666	467.45	7.50	474.95

Name: 109

Footprint area: 20.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

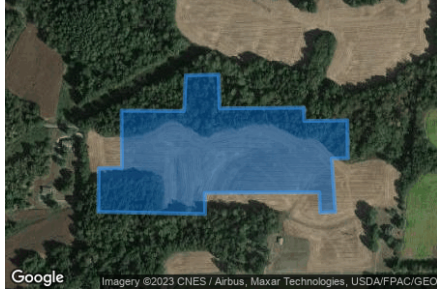
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024323	-88.897687	447.36	7.50	454.86
2	37.024336	-88.896958	452.34	7.50	459.84
3	37.023736	-88.896936	463.50	7.50	471.00
4	37.023749	-88.895064	475.99	7.50	483.49
5	37.023513	-88.895059	473.66	7.50	481.16
6	37.023526	-88.894098	480.00	7.50	487.50
7	37.022995	-88.894093	477.21	7.50	484.71
8	37.022854	-88.894088	467.01	7.50	474.51
9	37.022849	-88.894447	465.01	7.50	472.51
10	37.021903	-88.894367	458.27	7.50	465.77
11	37.021890	-88.894704	455.49	7.50	462.99
12	37.022250	-88.894721	461.39	7.50	468.89
13	37.022237	-88.897263	438.09	7.50	445.59
14	37.021864	-88.897258	436.54	7.50	444.04
15	37.021903	-88.899629	453.59	7.50	461.09
16	37.022678	-88.899618	450.59	7.50	458.09
17	37.022682	-88.899103	453.68	7.50	461.18
18	37.023697	-88.899114	450.96	7.50	458.46
19	37.023689	-88.897725	469.42	7.50	476.92

Name: 110

Footprint area: 18.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

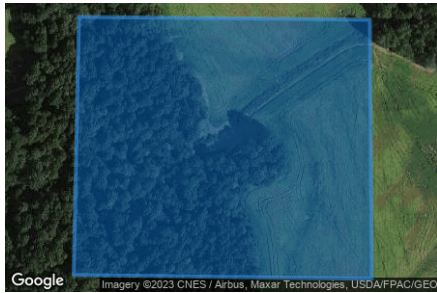
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027012	-88.924295	475.57	7.50	483.07
2	37.024716	-88.924354	500.53	7.50	508.03
3	37.024682	-88.921044	441.89	7.50	449.39
4	37.026986	-88.921065	405.73	7.50	413.23

Name: 111

Footprint area: 16.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

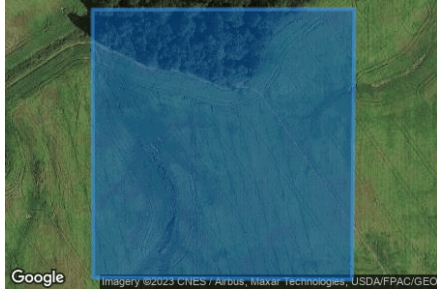
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027059	-88.921055	407.42	7.50	414.92
2	37.027063	-88.918147	414.56	7.50	422.06
3	37.024665	-88.918174	423.57	7.50	431.07
4	37.024682	-88.921044	441.89	7.50	449.39

Name: 112

Footprint area: 9.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027063	-88.918147	414.56	7.50	422.06
2	37.027093	-88.916044	395.18	7.50	402.68
3	37.026228	-88.916028	401.77	7.50	409.27
4	37.026237	-88.916817	408.26	7.50	415.76
5	37.024661	-88.916811	408.54	7.50	416.04
6	37.024669	-88.918185	423.84	7.50	431.34

Name: 113

Footprint area: 17.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024712	-88.924370	500.80	7.50	508.30
2	37.022524	-88.924381	458.49	7.50	465.99
3	37.022502	-88.921028	435.59	7.50	443.09
4	37.024678	-88.921022	441.52	7.50	449.02

Name: 114

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024682	-88.921039	441.89	7.50	449.39
2	37.024657	-88.918174	423.62	7.50	431.12
3	37.022507	-88.918185	426.22	7.50	433.72
4	37.022511	-88.921049	435.73	7.50	443.23

Name: 115

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024661	-88.918174	423.62	7.50	431.12
2	37.024674	-88.916827	408.64	7.50	416.14
3	37.020819	-88.916747	396.67	7.50	404.17
4	37.020793	-88.918163	414.15	7.50	421.65

Name: 116

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

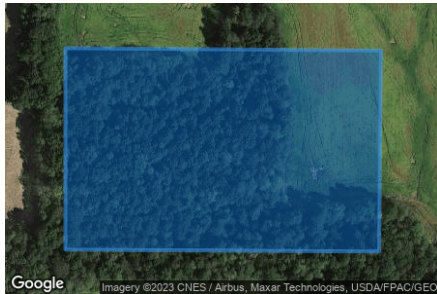
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022524	-88.924670	461.36	7.50	468.86
2	37.022502	-88.921167	439.11	7.50	446.61
3	37.020733	-88.921189	470.93	7.50	478.43
4	37.020750	-88.924670	494.17	7.50	501.67

Name: 117

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

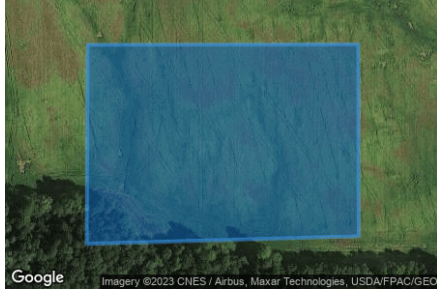
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022498	-88.921173	439.11	7.50	446.61
2	37.022502	-88.918169	426.07	7.50	433.57
3	37.020802	-88.918163	414.28	7.50	421.78
4	37.020733	-88.921183	470.20	7.50	477.70



2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Ceredo Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.041978	-88.896576	456.64	5.00	461.64
2	37.039854	-88.896662	466.14	5.00	471.14
3	37.039383	-88.896576	466.46	5.00	471.46
4	37.039083	-88.896190	466.08	5.00	471.08
5	37.038912	-88.895664	465.00	5.00	470.00
6	37.038878	-88.895107	459.47	5.00	464.47
7	37.038852	-88.888562	448.51	5.00	453.51
8	37.038809	-88.884893	441.28	5.00	446.28

Name: Davis Road north segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.034365	-88.901469	467.17	5.00	472.17
2	37.034748	-88.901405	473.42	5.00	478.42
3	37.035048	-88.901343	465.63	5.00	470.63
4	37.035433	-88.901279	465.38	5.00	470.38
5	37.035928	-88.901289	465.51	5.00	470.51
6	37.036388	-88.901281	463.03	5.00	468.03
7	37.036887	-88.901287	471.19	5.00	476.19

Name: Davis Road south segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.028190	-88.903323	442.11	5.00	447.11
2	37.027659	-88.903365	427.70	5.00	432.70
3	37.026661	-88.903395	399.96	5.00	404.96
4	37.025710	-88.903414	399.22	5.00	404.22
5	37.025025	-88.903441	417.06	5.00	422.06
6	37.024420	-88.903480	415.41	5.00	420.41
7	37.024206	-88.903287	413.49	5.00	418.49
8	37.024120	-88.903094	420.49	5.00	425.49
9	37.024163	-88.902075	433.01	5.00	438.01
10	37.023401	-88.900777	457.16	5.00	462.16
11	37.023401	-88.900294	454.34	5.00	459.34
12	37.023349	-88.900058	458.83	5.00	463.83
13	37.023204	-88.899961	460.98	5.00	465.98
14	37.021431	-88.899833	442.15	5.00	447.15
15	37.021268	-88.899639	456.35	5.00	461.35
16	37.020694	-88.897998	453.21	5.00	458.21
17	37.020694	-88.897773	458.98	5.00	463.98

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020732	-88.897526	458.31	5.00	463.31
2	37.020728	-88.896550	450.67	5.00	455.67
3	37.020767	-88.893556	466.86	5.00	471.86
4	37.020835	-88.890080	457.23	5.00	462.23
5	37.020852	-88.889511	451.91	5.00	456.91
6	37.020959	-88.889216	452.48	5.00	457.48
7	37.021169	-88.888991	454.88	5.00	459.88
8	37.021396	-88.888921	453.88	5.00	458.88
9	37.023345	-88.888776	468.05	5.00	473.05
10	37.024724	-88.888685	472.15	5.00	477.15
11	37.026596	-88.888567	464.35	5.00	469.35
12	37.027966	-88.888460	451.46	5.00	456.46
13	37.029534	-88.888337	445.16	5.00	450.16

Name: Hinkleville Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.030896	-88.932654	443.03	5.00	448.03
2	37.029800	-88.932815	449.09	5.00	454.09
3	37.028018	-88.933674	441.08	5.00	446.08
4	37.027359	-88.933845	433.82	5.00	438.82
5	37.025046	-88.933845	415.01	5.00	420.01
6	37.022862	-88.933824	431.33	5.00	436.33
7	37.020515	-88.933781	449.18	5.00	454.18
8	37.019907	-88.933706	456.60	5.00	461.60
9	37.017225	-88.932923	466.16	5.00	471.16

Name: Randy Williams Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035504	-88.932272	436.52	5.00	441.52
2	37.035260	-88.931534	429.65	5.00	434.65
3	37.034877	-88.930375	425.36	5.00	430.36
4	37.034894	-88.930169	425.24	5.00	430.24
5	37.034990	-88.930067	424.41	5.00	429.41
6	37.035213	-88.929946	427.76	5.00	432.76
7	37.035294	-88.929831	421.73	5.00	426.73
8	37.035344	-88.926974	399.71	5.00	404.71
9	37.035376	-88.925234	389.46	5.00	394.46
10	37.035393	-88.924292	385.63	5.00	390.63
11	37.035350	-88.923766	382.47	5.00	387.47
12	37.035309	-88.923450	389.29	5.00	394.29

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.016411	-88.935586	473.40	16.00	489.40
OP 3	37.018141	-88.933559	457.09	16.00	473.09
OP 4	37.018869	-88.936809	460.16	16.00	476.16
OP 5	37.020959	-88.934353	460.29	16.00	476.29
OP 6	37.011607	-88.932428	473.59	16.00	489.59
OP 7	37.012110	-88.932313	472.59	16.00	488.59
OP 8	37.012421	-88.930593	468.74	16.00	484.74
OP 9	37.014078	-88.933142	470.26	16.00	486.26
OP 10	37.038117	-88.900931	462.68	16.00	478.68
OP 11	37.036139	-88.900330	464.55	16.00	480.55
OP 12	37.034418	-88.902304	465.01	16.00	481.01
OP 13	37.024478	-88.902358	435.09	16.00	451.09
OP 14	37.023129	-88.900276	459.28	16.00	475.28
OP 15	37.022276	-88.900749	441.74	16.00	457.74
OP 16	37.020452	-88.899150	443.08	16.00	459.08
OP 17	37.021548	-88.893190	473.39	16.00	489.39
OP 18	37.020482	-88.890342	455.35	16.00	471.35
OP 19	37.023223	-88.888421	469.18	16.00	485.18
OP 20	37.023617	-88.888400	468.22	16.00	484.22
OP 21	37.026624	-88.888013	466.30	16.00	482.30
OP 22	37.027472	-88.887949	471.05	16.00	487.05
OP 23	37.028465	-88.887461	468.91	16.00	484.91
OP 24	37.031459	-88.886254	458.87	16.00	474.87
OP 25	37.011508	-88.914846	455.12	16.00	471.12
OP 26	37.010099	-88.913934	472.36	16.00	488.36
OP 27	37.012254	-88.910388	465.32	16.00	481.32
OP 28	37.013997	-88.911059	446.09	16.00	462.09
OP 29	37.021321	-88.896259	448.33	16.00	464.33
OP 30	37.018387	-88.897455	455.43	16.00	471.43
OP 31	37.006758	-88.933691	477.67	16.00	493.67
OP 32	37.006955	-88.932248	482.92	16.00	498.92
OP 33	37.007070	-88.931229	478.67	16.00	494.67
OP 34	37.007764	-88.932318	479.71	16.00	495.71
OP 35	37.008437	-88.932608	478.17	16.00	494.17
OP 36	36.993735	-88.942986	481.27	16.00	497.27
OP 37	36.996539	-88.933851	488.27	16.00	504.27
OP 38	36.998814	-88.933478	483.80	16.00	499.80
OP 39	36.998319	-88.933521	487.33	16.00	503.33
OP 40	36.999444	-88.933577	481.91	16.00	497.91

1-ATCT map image



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	
101	SA tracking	SA tracking	0	0	-	-
102	SA tracking	SA tracking	0	0	-	-
103	SA tracking	SA tracking	0	0	-	-
104	SA tracking	SA tracking	0	0	-	-
105	SA tracking	SA tracking	0	0	-	-
106	SA tracking	SA tracking	0	0	-	-
107	SA tracking	SA tracking	0	0	-	-
108	SA tracking	SA tracking	0	0	-	-
109	SA tracking	SA tracking	0	0	-	-
110	SA tracking	SA tracking	0	0	-	-
111	SA tracking	SA tracking	0	0	-	-
112	SA tracking	SA tracking	0	0	-	-
113	SA tracking	SA tracking	0	0	-	-
114	SA tracking	SA tracking	0	0	-	-
115	SA tracking	SA tracking	0	0	-	-
116	SA tracking	SA tracking	0	0	-	-
117	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

101 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

102 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

103 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

104 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

105 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

106 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

107 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

108 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

109 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

110 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

111 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

113 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

114 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

115 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

116 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

117 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 1 5ft vehicles 60 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98025.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
101	SA tracking	SA tracking	0	0	-
102	SA tracking	SA tracking	0	0	-
103	SA tracking	SA tracking	0	0	-
104	SA tracking	SA tracking	0	0	-
105	SA tracking	SA tracking	0	0	-
106	SA tracking	SA tracking	0	0	-
107	SA tracking	SA tracking	0	0	-
108	SA tracking	SA tracking	0	0	-
109	SA tracking	SA tracking	0	0	-
110	SA tracking	SA tracking	0	0	-
111	SA tracking	SA tracking	0	0	-
112	SA tracking	SA tracking	0	0	-
113	SA tracking	SA tracking	0	0	-
114	SA tracking	SA tracking	0	0	-
115	SA tracking	SA tracking	0	0	-
116	SA tracking	SA tracking	0	0	-
117	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 243.4 acres

Name: 101

Footprint area: 13.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

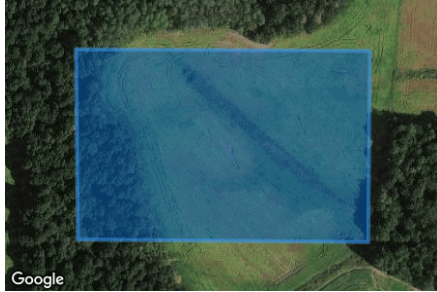
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.028688	-88.924307	502.68	7.50	510.18
2	37.028675	-88.921045	418.49	7.50	425.99
3	37.026992	-88.921061	405.95	7.50	413.45
4	37.027013	-88.924285	475.57	7.50	483.07

Name: 102

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.034498	-88.913072	379.74	7.50	387.24
2	37.034464	-88.909516	407.84	7.50	415.34
3	37.036271	-88.909510	422.93	7.50	430.43
4	37.036271	-88.913062	426.66	7.50	434.16

Name: 103

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036258	-88.913748	378.82	7.50	386.32
2	37.037654	-88.913705	406.07	7.50	413.57
3	37.037710	-88.910068	450.29	7.50	457.79
4	37.036267	-88.910057	423.72	7.50	431.22

Name: 104

Footprint area: 16.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036267	-88.910057	423.72	7.50	431.22
2	37.038048	-88.910074	446.66	7.50	454.16
3	37.038112	-88.906340	465.83	7.50	473.33
4	37.036237	-88.906367	433.86	7.50	441.36

Name: 105

Footprint area: 9.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036262	-88.909516	422.52	7.50	430.02
2	37.035389	-88.909521	427.77	7.50	435.27
3	37.035474	-88.904650	432.43	7.50	439.93
4	37.036245	-88.904655	452.77	7.50	460.27

Name: 106

Footprint area: 15.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037277	-88.906345	460.52	7.50	468.02
2	37.037277	-88.902161	453.49	7.50	460.99
3	37.035483	-88.902140	465.22	7.50	472.72
4	37.035483	-88.904672	433.17	7.50	440.67
5	37.036241	-88.904655	452.39	7.50	459.89
6	37.036237	-88.906383	433.99	7.50	441.49

Name: 107

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027531	-88.897859	439.14	7.50	446.64
2	37.027612	-88.893122	468.46	7.50	475.96
3	37.027072	-88.893149	452.57	7.50	460.07
4	37.027064	-88.893476	459.66	7.50	467.16
5	37.026760	-88.893476	448.24	7.50	455.74
6	37.026687	-88.895692	449.77	7.50	457.27
7	37.025779	-88.895692	450.21	7.50	457.71
8	37.025783	-88.897279	438.36	7.50	445.86
9	37.026640	-88.897290	444.59	7.50	452.09
10	37.026631	-88.897843	442.31	7.50	449.81

Name: 108

Footprint area: 7.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025466	-88.894957	459.28	7.50	466.78
2	37.025119	-88.894957	463.29	7.50	470.79
3	37.025145	-88.895842	456.82	7.50	464.32
4	37.024550	-88.895842	440.59	7.50	448.09
5	37.024494	-88.894222	454.32	7.50	461.82
6	37.023972	-88.894227	453.70	7.50	461.20
7	37.023980	-88.893363	457.74	7.50	465.24
8	37.024494	-88.893353	461.03	7.50	468.53
9	37.024494	-88.892682	453.78	7.50	461.28
10	37.025458	-88.892666	467.45	7.50	474.95

Name: 109

Footprint area: 20.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

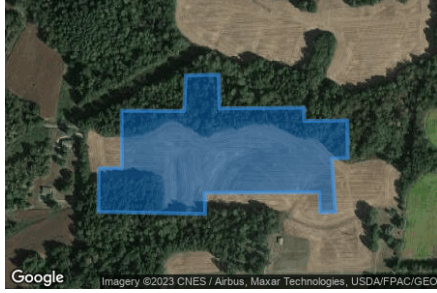
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024323	-88.897687	447.36	7.50	454.86
2	37.024336	-88.896958	452.34	7.50	459.84
3	37.023736	-88.896936	463.50	7.50	471.00
4	37.023749	-88.895064	475.99	7.50	483.49
5	37.023513	-88.895059	473.66	7.50	481.16
6	37.023526	-88.894098	480.00	7.50	487.50
7	37.022995	-88.894093	477.21	7.50	484.71
8	37.022854	-88.894088	467.01	7.50	474.51
9	37.022849	-88.894447	465.01	7.50	472.51
10	37.021903	-88.894367	458.27	7.50	465.77
11	37.021890	-88.894704	455.49	7.50	462.99
12	37.022250	-88.894721	461.39	7.50	468.89
13	37.022237	-88.897263	438.09	7.50	445.59
14	37.021864	-88.897258	436.54	7.50	444.04
15	37.021903	-88.899629	453.59	7.50	461.09
16	37.022678	-88.899618	450.59	7.50	458.09
17	37.022682	-88.899103	453.68	7.50	461.18
18	37.023697	-88.899114	450.96	7.50	458.46
19	37.023689	-88.897725	469.42	7.50	476.92

Name: 110

Footprint area: 18.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

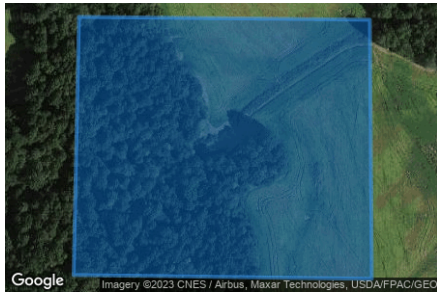
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027012	-88.924295	475.57	7.50	483.07
2	37.024716	-88.924354	500.53	7.50	508.03
3	37.024682	-88.921044	441.89	7.50	449.39
4	37.026986	-88.921065	405.73	7.50	413.23

Name: 111

Footprint area: 16.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

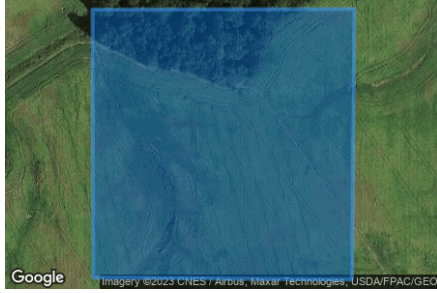
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027059	-88.921055	407.42	7.50	414.92
2	37.027063	-88.918147	414.56	7.50	422.06
3	37.024665	-88.918174	423.57	7.50	431.07
4	37.024682	-88.921044	441.89	7.50	449.39



Name: 112

Footprint area: 9.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027063	-88.918147	414.56	7.50	422.06
2	37.027093	-88.916044	395.18	7.50	402.68
3	37.026228	-88.916028	401.77	7.50	409.27
4	37.026237	-88.916817	408.26	7.50	415.76
5	37.024661	-88.916811	408.54	7.50	416.04
6	37.024669	-88.918185	423.84	7.50	431.34



Name: 113

Footprint area: 17.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

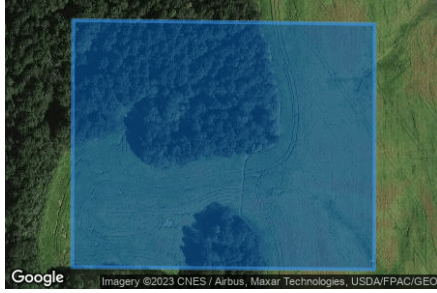
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024712	-88.924370	500.80	7.50	508.30
2	37.022524	-88.924381	458.49	7.50	465.99
3	37.022502	-88.921028	435.59	7.50	443.09
4	37.024678	-88.921022	441.52	7.50	449.02

Name: 114

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024682	-88.921039	441.89	7.50	449.39
2	37.024657	-88.918174	423.62	7.50	431.12
3	37.022507	-88.918185	426.22	7.50	433.72
4	37.022511	-88.921049	435.73	7.50	443.23

Name: 115

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024661	-88.918174	423.62	7.50	431.12
2	37.024674	-88.916827	408.64	7.50	416.14
3	37.020819	-88.916747	396.67	7.50	404.17
4	37.020793	-88.918163	414.15	7.50	421.65

Name: 116

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

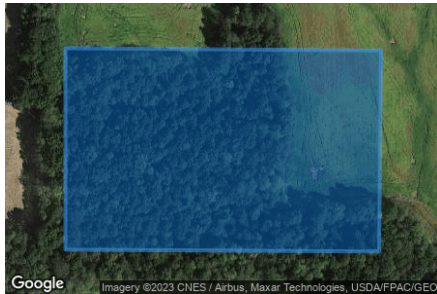
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022524	-88.924670	461.36	7.50	468.86
2	37.022502	-88.921167	439.11	7.50	446.61
3	37.020733	-88.921189	470.93	7.50	478.43
4	37.020750	-88.924670	494.17	7.50	501.67

Name: 117

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

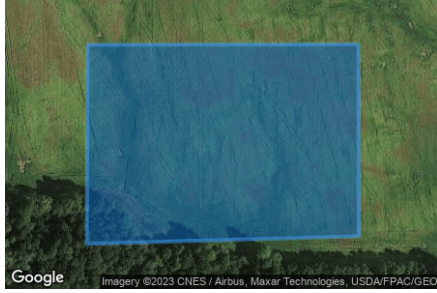
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022498	-88.921173	439.11	7.50	446.61
2	37.022502	-88.918169	426.07	7.50	433.57
3	37.020802	-88.918163	414.28	7.50	421.78
4	37.020733	-88.921183	470.20	7.50	477.70



2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Ceredo Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.041978	-88.896576	456.64	5.00	461.64
2	37.039854	-88.896662	466.14	5.00	471.14
3	37.039383	-88.896576	466.46	5.00	471.46
4	37.039083	-88.896190	466.08	5.00	471.08
5	37.038912	-88.895664	465.00	5.00	470.00
6	37.038878	-88.895107	459.47	5.00	464.47
7	37.038852	-88.888562	448.51	5.00	453.51
8	37.038809	-88.884893	441.28	5.00	446.28

Name: Davis Road north segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.034365	-88.901469	467.17	5.00	472.17
2	37.034748	-88.901405	473.42	5.00	478.42
3	37.035048	-88.901343	465.63	5.00	470.63
4	37.035433	-88.901279	465.38	5.00	470.38
5	37.035928	-88.901289	465.51	5.00	470.51
6	37.036388	-88.901281	463.03	5.00	468.03
7	37.036887	-88.901287	471.19	5.00	476.19

Name: Davis Road south segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.028190	-88.903323	442.11	5.00	447.11
2	37.027659	-88.903365	427.70	5.00	432.70
3	37.026661	-88.903395	399.96	5.00	404.96
4	37.025710	-88.903414	399.22	5.00	404.22
5	37.025025	-88.903441	417.06	5.00	422.06
6	37.024420	-88.903480	415.41	5.00	420.41
7	37.024206	-88.903287	413.49	5.00	418.49
8	37.024120	-88.903094	420.49	5.00	425.49
9	37.024163	-88.902075	433.01	5.00	438.01
10	37.023401	-88.900777	457.16	5.00	462.16
11	37.023401	-88.900294	454.34	5.00	459.34
12	37.023349	-88.900058	458.83	5.00	463.83
13	37.023204	-88.899961	460.98	5.00	465.98
14	37.021431	-88.899833	442.15	5.00	447.15
15	37.021268	-88.899639	456.35	5.00	461.35
16	37.020694	-88.897998	453.21	5.00	458.21
17	37.020694	-88.897773	458.98	5.00	463.98

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020732	-88.897526	458.31	5.00	463.31
2	37.020728	-88.896550	450.67	5.00	455.67
3	37.020767	-88.893556	466.86	5.00	471.86
4	37.020835	-88.890080	457.23	5.00	462.23
5	37.020852	-88.889511	451.91	5.00	456.91
6	37.020959	-88.889216	452.48	5.00	457.48
7	37.021169	-88.888991	454.88	5.00	459.88
8	37.021396	-88.888921	453.88	5.00	458.88
9	37.023345	-88.888776	468.05	5.00	473.05
10	37.024724	-88.888685	472.15	5.00	477.15
11	37.026596	-88.888567	464.35	5.00	469.35
12	37.027966	-88.888460	451.46	5.00	456.46
13	37.029534	-88.888337	445.16	5.00	450.16

Name: Hinkleville Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.030896	-88.932654	443.03	5.00	448.03
2	37.029800	-88.932815	449.09	5.00	454.09
3	37.028018	-88.933674	441.08	5.00	446.08
4	37.027359	-88.933845	433.82	5.00	438.82
5	37.025046	-88.933845	415.01	5.00	420.01
6	37.022862	-88.933824	431.33	5.00	436.33
7	37.020515	-88.933781	449.18	5.00	454.18
8	37.019907	-88.933706	456.60	5.00	461.60
9	37.017225	-88.932923	466.16	5.00	471.16

Name: Randy Williams Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035504	-88.932272	436.52	5.00	441.52
2	37.035260	-88.931534	429.65	5.00	434.65
3	37.034877	-88.930375	425.36	5.00	430.36
4	37.034894	-88.930169	425.24	5.00	430.24
5	37.034990	-88.930067	424.41	5.00	429.41
6	37.035213	-88.929946	427.76	5.00	432.76
7	37.035294	-88.929831	421.73	5.00	426.73
8	37.035344	-88.926974	399.71	5.00	404.71
9	37.035376	-88.925234	389.46	5.00	394.46
10	37.035393	-88.924292	385.63	5.00	390.63
11	37.035350	-88.923766	382.47	5.00	387.47
12	37.035309	-88.923450	389.29	5.00	394.29

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.016411	-88.935586	473.40	16.00	489.40
OP 3	37.018141	-88.933559	457.09	16.00	473.09
OP 4	37.018869	-88.936809	460.16	16.00	476.16
OP 5	37.020959	-88.934353	460.29	16.00	476.29
OP 6	37.011607	-88.932428	473.59	16.00	489.59
OP 7	37.012110	-88.932313	472.59	16.00	488.59
OP 8	37.012421	-88.930593	468.74	16.00	484.74
OP 9	37.014078	-88.933142	470.26	16.00	486.26
OP 10	37.038117	-88.900931	462.68	16.00	478.68
OP 11	37.036139	-88.900330	464.55	16.00	480.55
OP 12	37.034418	-88.902304	465.01	16.00	481.01
OP 13	37.024478	-88.902358	435.09	16.00	451.09
OP 14	37.023129	-88.900276	459.28	16.00	475.28
OP 15	37.022276	-88.900749	441.74	16.00	457.74
OP 16	37.020452	-88.899150	443.08	16.00	459.08
OP 17	37.021548	-88.893190	473.39	16.00	489.39
OP 18	37.020482	-88.890342	455.35	16.00	471.35
OP 19	37.023223	-88.888421	469.18	16.00	485.18
OP 20	37.023617	-88.888400	468.22	16.00	484.22
OP 21	37.026624	-88.888013	466.30	16.00	482.30
OP 22	37.027472	-88.887949	471.05	16.00	487.05
OP 23	37.028465	-88.887461	468.91	16.00	484.91
OP 24	37.031459	-88.886254	458.87	16.00	474.87
OP 25	37.011508	-88.914846	455.12	16.00	471.12
OP 26	37.010099	-88.913934	472.36	16.00	488.36
OP 27	37.012254	-88.910388	465.32	16.00	481.32
OP 28	37.013997	-88.911059	446.09	16.00	462.09
OP 29	37.021321	-88.896259	448.33	16.00	464.33
OP 30	37.018387	-88.897455	455.43	16.00	471.43
OP 31	37.006758	-88.933691	477.67	16.00	493.67
OP 32	37.006955	-88.932248	482.92	16.00	498.92
OP 33	37.007070	-88.931229	478.67	16.00	494.67
OP 34	37.007764	-88.932318	479.71	16.00	495.71
OP 35	37.008437	-88.932608	478.17	16.00	494.17
OP 36	36.993735	-88.942986	481.27	16.00	497.27
OP 37	36.996539	-88.933851	488.27	16.00	504.27
OP 38	36.998814	-88.933478	483.80	16.00	499.80
OP 39	36.998319	-88.933521	487.33	16.00	503.33
OP 40	36.999444	-88.933577	481.91	16.00	497.91

1-ATCT map image



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	
101	SA tracking	SA tracking	0	0	-	-
102	SA tracking	SA tracking	0	0	-	-
103	SA tracking	SA tracking	0	0	-	-
104	SA tracking	SA tracking	0	0	-	-
105	SA tracking	SA tracking	0	0	-	-
106	SA tracking	SA tracking	0	0	-	-
107	SA tracking	SA tracking	0	0	-	-
108	SA tracking	SA tracking	0	0	-	-
109	SA tracking	SA tracking	0	0	-	-
110	SA tracking	SA tracking	0	0	-	-
111	SA tracking	SA tracking	0	0	-	-
112	SA tracking	SA tracking	0	0	-	-
113	SA tracking	SA tracking	0	0	-	-
114	SA tracking	SA tracking	0	0	-	-
115	SA tracking	SA tracking	0	0	-	-
116	SA tracking	SA tracking	0	0	-	-
117	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

101 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

102 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

103 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

104 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

105 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

106 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

107 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

108 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

109 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

110 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

111 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

113 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

114 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

115 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

116 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

117 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 1 9ft vehicles 0 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98056.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
101	SA tracking	SA tracking	722	0	-
102	SA tracking	SA tracking	1,462	0	-
103	SA tracking	SA tracking	1,952	0	-
104	SA tracking	SA tracking	1,345	0	-
105	SA tracking	SA tracking	1,111	0	-
106	SA tracking	SA tracking	1,590	0	-
107	SA tracking	SA tracking	2,115	578	-
108	SA tracking	SA tracking	1,795	1,307	-
109	SA tracking	SA tracking	10,304	8,835	-
110	SA tracking	SA tracking	3,674	0	-
111	SA tracking	SA tracking	2,973	0	-
112	SA tracking	SA tracking	0	0	-
113	SA tracking	SA tracking	1,592	0	-
114	SA tracking	SA tracking	2,518	0	-
115	SA tracking	SA tracking	4,085	0	-
116	SA tracking	SA tracking	3,003	0	-
117	SA tracking	SA tracking	2,576	0	-

Component Data

PV Array(s)

Total PV footprint area: 243.4 acres

Name: 101

Footprint area: 13.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

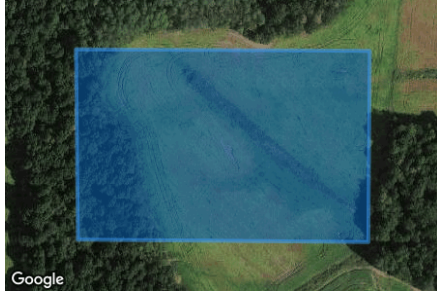
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.028688	-88.924307	502.68	7.50	510.18
2	37.028675	-88.921045	418.49	7.50	425.99
3	37.026992	-88.921061	405.95	7.50	413.45
4	37.027013	-88.924285	475.57	7.50	483.07

Name: 102

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.034498	-88.913072	379.74	7.50	387.24
2	37.034464	-88.909516	407.84	7.50	415.34
3	37.036271	-88.909510	422.93	7.50	430.43
4	37.036271	-88.913062	426.66	7.50	434.16

Name: 103

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036258	-88.913748	378.82	7.50	386.32
2	37.037654	-88.913705	406.07	7.50	413.57
3	37.037710	-88.910068	450.29	7.50	457.79
4	37.036267	-88.910057	423.72	7.50	431.22

Name: 104

Footprint area: 16.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036267	-88.910057	423.72	7.50	431.22
2	37.038048	-88.910074	446.66	7.50	454.16
3	37.038112	-88.906340	465.83	7.50	473.33
4	37.036237	-88.906367	433.86	7.50	441.36

Name: 105

Footprint area: 9.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036262	-88.909516	422.52	7.50	430.02
2	37.035389	-88.909521	427.77	7.50	435.27
3	37.035474	-88.904650	432.43	7.50	439.93
4	37.036245	-88.904655	452.77	7.50	460.27

Name: 106

Footprint area: 15.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037277	-88.906345	460.52	7.50	468.02
2	37.037277	-88.902161	453.49	7.50	460.99
3	37.035483	-88.902140	465.22	7.50	472.72
4	37.035483	-88.904672	433.17	7.50	440.67
5	37.036241	-88.904655	452.39	7.50	459.89
6	37.036237	-88.906383	433.99	7.50	441.49

Name: 107

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027531	-88.897859	439.14	7.50	446.64
2	37.027612	-88.893122	468.46	7.50	475.96
3	37.027072	-88.893149	452.57	7.50	460.07
4	37.027064	-88.893476	459.66	7.50	467.16
5	37.026760	-88.893476	448.24	7.50	455.74
6	37.026687	-88.895692	449.77	7.50	457.27
7	37.025779	-88.895692	450.21	7.50	457.71
8	37.025783	-88.897279	438.36	7.50	445.86
9	37.026640	-88.897290	444.59	7.50	452.09
10	37.026631	-88.897843	442.31	7.50	449.81

Name: 108

Footprint area: 7.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025466	-88.894957	459.28	7.50	466.78
2	37.025119	-88.894957	463.29	7.50	470.79
3	37.025145	-88.895842	456.82	7.50	464.32
4	37.024550	-88.895842	440.59	7.50	448.09
5	37.024494	-88.894222	454.32	7.50	461.82
6	37.023972	-88.894227	453.70	7.50	461.20
7	37.023980	-88.893363	457.74	7.50	465.24
8	37.024494	-88.893353	461.03	7.50	468.53
9	37.024494	-88.892682	453.78	7.50	461.28
10	37.025458	-88.892666	467.45	7.50	474.95

Name: 109

Footprint area: 20.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

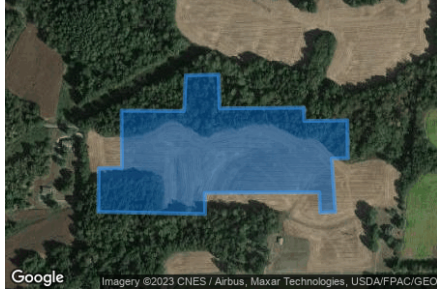
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024323	-88.897687	447.36	7.50	454.86
2	37.024336	-88.896958	452.34	7.50	459.84
3	37.023736	-88.896936	463.50	7.50	471.00
4	37.023749	-88.895064	475.99	7.50	483.49
5	37.023513	-88.895059	473.66	7.50	481.16
6	37.023526	-88.894098	480.00	7.50	487.50
7	37.022995	-88.894093	477.21	7.50	484.71
8	37.022854	-88.894088	467.01	7.50	474.51
9	37.022849	-88.894447	465.01	7.50	472.51
10	37.021903	-88.894367	458.27	7.50	465.77
11	37.021890	-88.894704	455.49	7.50	462.99
12	37.022250	-88.894721	461.39	7.50	468.89
13	37.022237	-88.897263	438.09	7.50	445.59
14	37.021864	-88.897258	436.54	7.50	444.04
15	37.021903	-88.899629	453.59	7.50	461.09
16	37.022678	-88.899618	450.59	7.50	458.09
17	37.022682	-88.899103	453.68	7.50	461.18
18	37.023697	-88.899114	450.96	7.50	458.46
19	37.023689	-88.897725	469.42	7.50	476.92

Name: 110

Footprint area: 18.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

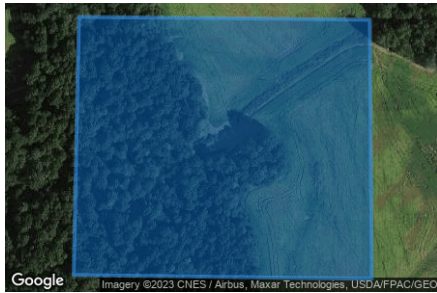
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027012	-88.924295	475.57	7.50	483.07
2	37.024716	-88.924354	500.53	7.50	508.03
3	37.024682	-88.921044	441.89	7.50	449.39
4	37.026986	-88.921065	405.73	7.50	413.23

Name: 111

Footprint area: 16.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

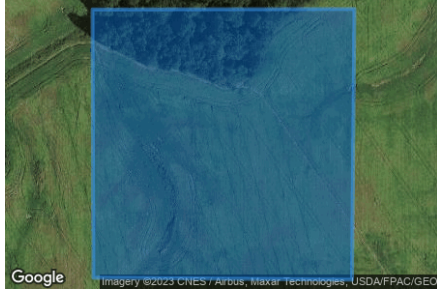
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027059	-88.921055	407.42	7.50	414.92
2	37.027063	-88.918147	414.56	7.50	422.06
3	37.024665	-88.918174	423.57	7.50	431.07
4	37.024682	-88.921044	441.89	7.50	449.39



Name: 112

Footprint area: 9.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027063	-88.918147	414.56	7.50	422.06
2	37.027093	-88.916044	395.18	7.50	402.68
3	37.026228	-88.916028	401.77	7.50	409.27
4	37.026237	-88.916817	408.26	7.50	415.76
5	37.024661	-88.916811	408.54	7.50	416.04
6	37.024669	-88.918185	423.84	7.50	431.34



Name: 113

Footprint area: 17.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024712	-88.924370	500.80	7.50	508.30
2	37.022524	-88.924381	458.49	7.50	465.99
3	37.022502	-88.921028	435.59	7.50	443.09
4	37.024678	-88.921022	441.52	7.50	449.02

Name: 114

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024682	-88.921039	441.89	7.50	449.39
2	37.024657	-88.918174	423.62	7.50	431.12
3	37.022507	-88.918185	426.22	7.50	433.72
4	37.022511	-88.921049	435.73	7.50	443.23

Name: 115

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024661	-88.918174	423.62	7.50	431.12
2	37.024674	-88.916827	408.64	7.50	416.14
3	37.020819	-88.916747	396.67	7.50	404.17
4	37.020793	-88.918163	414.15	7.50	421.65

Name: 116

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

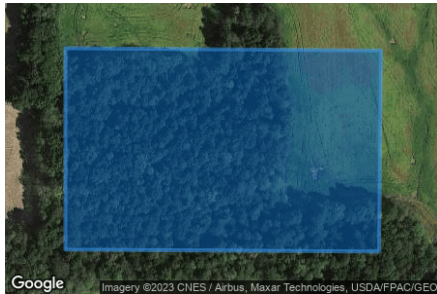
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022524	-88.924670	461.36	7.50	468.86
2	37.022502	-88.921167	439.11	7.50	446.61
3	37.020733	-88.921189	470.93	7.50	478.43
4	37.020750	-88.924670	494.17	7.50	501.67

Name: 117

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

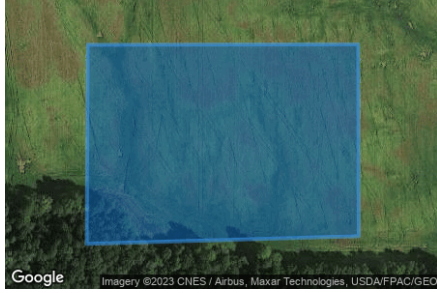
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022498	-88.921173	439.11	7.50	446.61
2	37.022502	-88.918169	426.07	7.50	433.57
3	37.020802	-88.918163	414.28	7.50	421.78
4	37.020733	-88.921183	470.20	7.50	477.70



2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Ceredo Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.041978	-88.896576	456.64	9.00	465.64
2	37.039854	-88.896662	466.14	9.00	475.14
3	37.039383	-88.896576	466.46	9.00	475.46
4	37.039083	-88.896190	466.08	9.00	475.08
5	37.038912	-88.895664	465.00	9.00	474.00
6	37.038878	-88.895107	459.47	9.00	468.47
7	37.038852	-88.888562	448.51	9.00	457.51
8	37.038809	-88.884893	441.28	9.00	450.28

Name: Davis Road north segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.034365	-88.901469	467.17	9.00	476.17
2	37.034748	-88.901405	473.42	9.00	482.42
3	37.035048	-88.901343	465.63	9.00	474.63
4	37.035433	-88.901279	465.38	9.00	474.38
5	37.035928	-88.901289	465.51	9.00	474.51
6	37.036388	-88.901281	463.03	9.00	472.03
7	37.036887	-88.901287	471.19	9.00	480.19

Name: Davis Road south segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.028190	-88.903323	442.11	9.00	451.11
2	37.027659	-88.903365	427.70	9.00	436.70
3	37.026661	-88.903395	399.96	9.00	408.96
4	37.025710	-88.903414	399.22	9.00	408.22
5	37.025025	-88.903441	417.06	9.00	426.06
6	37.024420	-88.903480	415.41	9.00	424.41
7	37.024206	-88.903287	413.49	9.00	422.49
8	37.024120	-88.903094	420.49	9.00	429.49
9	37.024163	-88.902075	433.01	9.00	442.01
10	37.023401	-88.900777	457.16	9.00	466.16
11	37.023401	-88.900294	454.34	9.00	463.34
12	37.023349	-88.900058	458.83	9.00	467.83
13	37.023204	-88.899961	460.98	9.00	469.98
14	37.021431	-88.899833	442.15	9.00	451.15
15	37.021268	-88.899639	456.35	9.00	465.35
16	37.020694	-88.897998	453.21	9.00	462.21
17	37.020694	-88.897773	458.98	9.00	467.98

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020732	-88.897526	458.31	9.00	467.31
2	37.020728	-88.896550	450.67	9.00	459.67
3	37.020767	-88.893556	466.86	9.00	475.86
4	37.020835	-88.890080	457.23	9.00	466.23
5	37.020852	-88.889511	451.91	9.00	460.91
6	37.020959	-88.889216	452.48	9.00	461.48
7	37.021169	-88.888991	454.88	9.00	463.88
8	37.021396	-88.888921	453.88	9.00	462.88
9	37.023345	-88.888776	468.05	9.00	477.05
10	37.024724	-88.888685	472.15	9.00	481.15
11	37.026596	-88.888567	464.35	9.00	473.35
12	37.027966	-88.888460	451.46	9.00	460.46
13	37.029534	-88.888337	445.16	9.00	454.16

Name: Hinkleville Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.030896	-88.932654	443.03	9.00	452.03
2	37.029800	-88.932815	449.09	9.00	458.09
3	37.028018	-88.933674	441.08	9.00	450.08
4	37.027359	-88.933845	433.82	9.00	442.82
5	37.025046	-88.933845	415.01	9.00	424.01
6	37.022862	-88.933824	431.33	9.00	440.33
7	37.020515	-88.933781	449.18	9.00	458.18
8	37.019907	-88.933706	456.60	9.00	465.60
9	37.017225	-88.932923	466.16	9.00	475.16

Name: Randy Williams Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035504	-88.932272	436.52	9.00	445.52
2	37.035260	-88.931534	429.65	9.00	438.65
3	37.034877	-88.930375	425.36	9.00	434.36
4	37.034894	-88.930169	425.24	9.00	434.24
5	37.034990	-88.930067	424.41	9.00	433.41
6	37.035213	-88.929946	427.76	9.00	436.76
7	37.035294	-88.929831	421.73	9.00	430.73
8	37.035344	-88.926974	399.71	9.00	408.71
9	37.035376	-88.925234	389.46	9.00	398.46
10	37.035393	-88.924292	385.63	9.00	394.63
11	37.035350	-88.923766	382.47	9.00	391.47
12	37.035309	-88.923450	389.29	9.00	398.29

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.016411	-88.935586	473.40	16.00	489.40
OP 3	37.018141	-88.933559	457.09	16.00	473.09
OP 4	37.018869	-88.936809	460.16	16.00	476.16
OP 5	37.020959	-88.934353	460.29	16.00	476.29
OP 6	37.011607	-88.932428	473.59	16.00	489.59
OP 7	37.012110	-88.932313	472.59	16.00	488.59
OP 8	37.012421	-88.930593	468.74	16.00	484.74
OP 9	37.014078	-88.933142	470.26	16.00	486.26
OP 10	37.038117	-88.900931	462.68	16.00	478.68
OP 11	37.036139	-88.900330	464.55	16.00	480.55
OP 12	37.034418	-88.902304	465.01	16.00	481.01
OP 13	37.024478	-88.902358	435.09	16.00	451.09
OP 14	37.023129	-88.900276	459.28	16.00	475.28
OP 15	37.022276	-88.900749	441.74	16.00	457.74
OP 16	37.020452	-88.899150	443.08	16.00	459.08
OP 17	37.021548	-88.893190	473.39	16.00	489.39
OP 18	37.020482	-88.890342	455.35	16.00	471.35
OP 19	37.023223	-88.888421	469.18	16.00	485.18
OP 20	37.023617	-88.888400	468.22	16.00	484.22
OP 21	37.026624	-88.888013	466.30	16.00	482.30
OP 22	37.027472	-88.887949	471.05	16.00	487.05
OP 23	37.028465	-88.887461	468.91	16.00	484.91
OP 24	37.031459	-88.886254	458.87	16.00	474.87
OP 25	37.011508	-88.914846	455.12	16.00	471.12
OP 26	37.010099	-88.913934	472.36	16.00	488.36
OP 27	37.012254	-88.910388	465.32	16.00	481.32
OP 28	37.013997	-88.911059	446.09	16.00	462.09
OP 29	37.021321	-88.896259	448.33	16.00	464.33
OP 30	37.018387	-88.897455	455.43	16.00	471.43
OP 31	37.006758	-88.933691	477.67	16.00	493.67
OP 32	37.006955	-88.932248	482.92	16.00	498.92
OP 33	37.007070	-88.931229	478.67	16.00	494.67
OP 34	37.007764	-88.932318	479.71	16.00	495.71
OP 35	37.008437	-88.932608	478.17	16.00	494.17
OP 36	36.993735	-88.942986	481.27	16.00	497.27
OP 37	36.996539	-88.933851	488.27	16.00	504.27
OP 38	36.998814	-88.933478	483.80	16.00	499.80
OP 39	36.998319	-88.933521	487.33	16.00	503.33
OP 40	36.999444	-88.933577	481.91	16.00	497.91

1-ATCT map image



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	
101	SA tracking	SA tracking	722	0	-	-
102	SA tracking	SA tracking	1,462	0	-	-
103	SA tracking	SA tracking	1,952	0	-	-
104	SA tracking	SA tracking	1,345	0	-	-
105	SA tracking	SA tracking	1,111	0	-	-
106	SA tracking	SA tracking	1,590	0	-	-
107	SA tracking	SA tracking	2,115	578	-	-
108	SA tracking	SA tracking	1,795	1,307	-	-
109	SA tracking	SA tracking	10,304	8,835	-	-
110	SA tracking	SA tracking	3,674	0	-	-
111	SA tracking	SA tracking	2,973	0	-	-
112	SA tracking	SA tracking	0	0	-	-
113	SA tracking	SA tracking	1,592	0	-	-
114	SA tracking	SA tracking	2,518	0	-	-
115	SA tracking	SA tracking	4,085	0	-	-
116	SA tracking	SA tracking	3,003	0	-	-
117	SA tracking	SA tracking	2,576	0	-	-

Distinct glare per month

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

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
101 (green)	0	0	0	35	145	16	118	85	0	0	0	0
101 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
102 (green)	0	0	159	101	277	278	284	139	192	32	0	0
102 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
103 (green)	0	0	47	290	336	360	359	291	149	0	0	0
103 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
104 (green)	0	0	49	190	247	251	253	206	117	0	0	0
104 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
105 (green)	0	0	91	81	271	136	256	128	148	0	0	0
105 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
106 (green)	0	0	84	126	310	334	299	158	164	0	0	0
106 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
107 (green)	0	0	0	86	208	42	140	229	31	0	0	0
107 (yellow)	0	0	0	0	90	142	144	8	0	0	0	0
108 (green)	0	0	0	34	60	90	100	62	0	0	0	0
108 (yellow)	0	0	0	17	267	374	338	86	0	0	0	0
109 (green)	32	52	81	66	224	517	375	73	69	80	31	37
109 (yellow)	352	448	503	551	462	111	272	589	506	499	397	272
110 (green)	413	224	0	24	0	0	0	15	7	133	365	437
110 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
111 (green)	241	139	37	107	35	0	6	88	103	191	220	259
111 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
113 (green)	92	74	132	206	0	0	0	121	202	39	114	77
113 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
114 (green)	224	128	194	193	0	0	0	115	211	128	220	224
114 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
115 (green)	274	250	293	287	25	0	0	199	283	279	266	281
115 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
116 (green)	324	242	232	60	0	0	0	0	201	241	313	339
116 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
117 (green)	337	262	250	78	0	0	0	4	225	260	327	373
117 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

101 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0

OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	396	0
Route: Gage Road	326	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

101: Barkley Regional Airport Runway 14

No glare found

101: Barkley Regional Airport Runway 23

No glare found

101: Barkley Regional Airport Runway 32

No glare found

101: Barkley Regional Airport Runway 5

No glare found

101: 1-ATCT

No glare found

101: OP 2

No glare found

101: OP 3

No glare found

101: OP 4

No glare found

101: OP 5

No glare found

101: OP 6

No glare found

101: OP 7

No glare found

101: OP 8

No glare found

101: OP 9

No glare found

101: OP 10

No glare found

101: OP 11

No glare found

101: OP 12

No glare found

101: OP 13

No glare found

101: OP 14

No glare found

101: OP 15

No glare found

101: OP 16

No glare found

101: OP 17

No glare found

101: OP 18

No glare found

101: OP 19

No glare found

101: OP 20

No glare found

101: OP 21

No glare found

101: OP 22

No glare found

101: OP 23

No glare found

101: OP 24

No glare found

101: OP 25

No glare found

101: OP 26

No glare found

101: OP 27

No glare found

101: OP 28

No glare found

101: OP 29

No glare found

101: OP 30

No glare found

101: OP 31

No glare found

101: OP 32

No glare found

101: OP 33

No glare found

101: OP 34

No glare found

101: OP 35

No glare found

101: OP 36

No glare found

101: OP 37

No glare found

101: OP 38

No glare found

101: OP 39

No glare found

101: OP 40

No glare found

101: Ceredo Road

No glare found

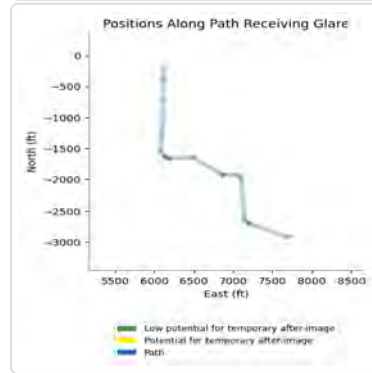
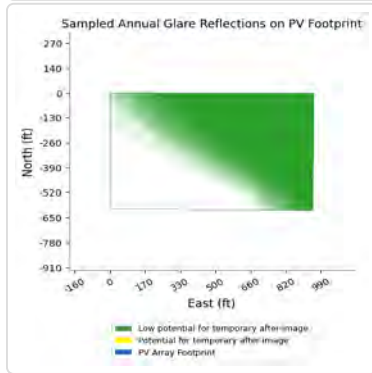
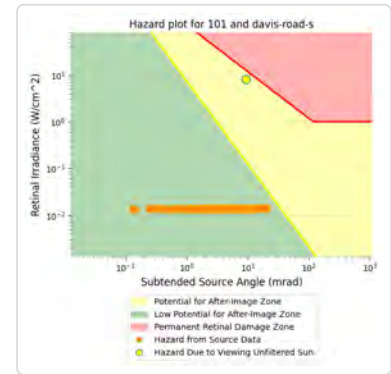
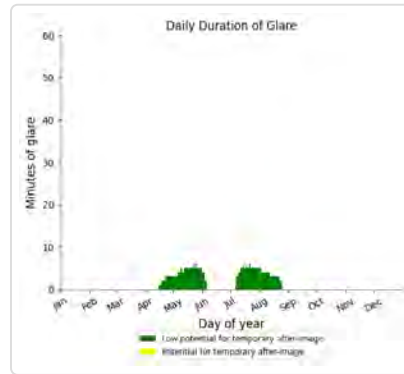
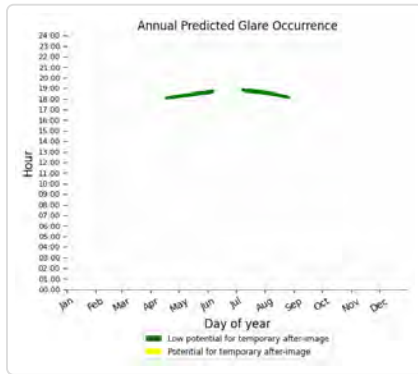
101: Davis Road north segment

No glare found

101: Davis Road south segment

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

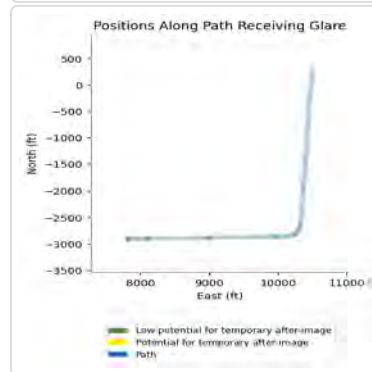
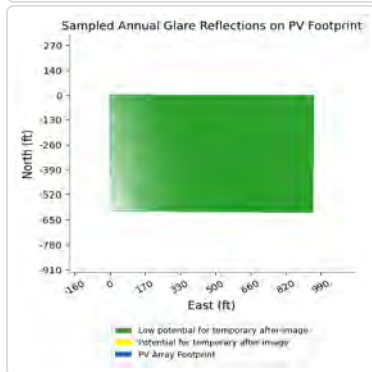
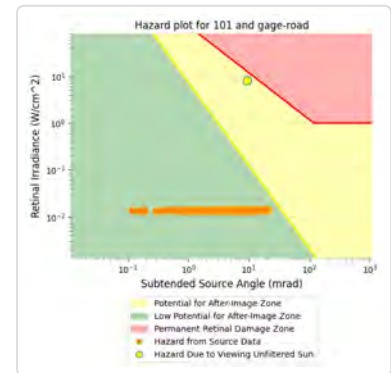
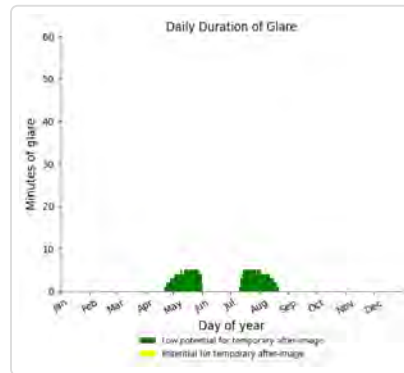
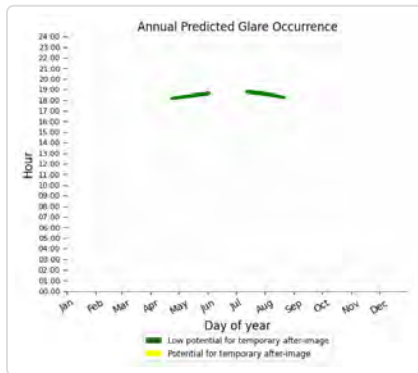
- 396 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



101: Gage Road

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

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



101: Hinkleville Road

No glare found

101: Randy Williams Road

No glare found

102 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0

OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0
Route: Hinkleville Road	1010	0
Route: Randy Williams Road	452	0

102: Barkley Regional Airport Runway 14

No glare found

102: Barkley Regional Airport Runway 23

No glare found

102: Barkley Regional Airport Runway 32

No glare found

102: Barkley Regional Airport Runway 5

No glare found

102: 1-ATCT

No glare found

102: OP 2

No glare found

102: OP 3

No glare found

102: OP 4

No glare found

102: OP 5

No glare found

102: OP 6

No glare found

102: OP 7

No glare found

102: OP 8

No glare found

102: OP 9

No glare found

102: OP 10

No glare found

102: OP 11

No glare found

102: OP 12

No glare found

102: OP 13

No glare found

102: OP 14

No glare found

102: OP 15

No glare found

102: OP 16

No glare found

102: OP 17

No glare found

102: OP 18

No glare found

102: OP 19

No glare found

102: OP 20

No glare found

102: OP 21

No glare found

102: OP 22

No glare found

102: OP 23

No glare found

102: OP 24

No glare found

102: OP 25

No glare found

102: OP 26

No glare found

102: OP 27

No glare found

102: OP 28

No glare found

102: OP 29

No glare found

102: OP 30

No glare found

102: OP 31

No glare found

102: OP 32

No glare found

102: OP 33

No glare found

102: OP 34

No glare found

102: OP 35

No glare found

102: OP 36

No glare found

102: OP 37

No glare found

102: OP 38

No glare found

102: OP 39

No glare found

102: OP 40

No glare found

102: Ceredo Road

No glare found

102: Davis Road north segment

No glare found

102: Davis Road south segment

No glare found

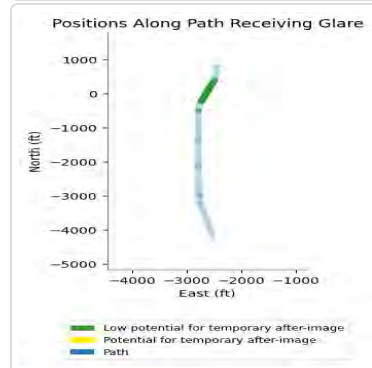
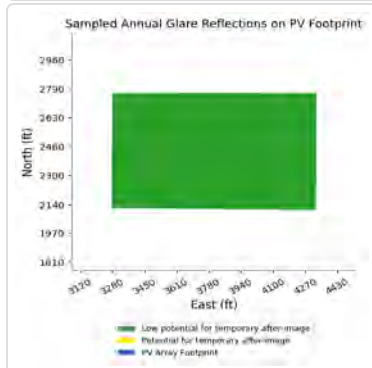
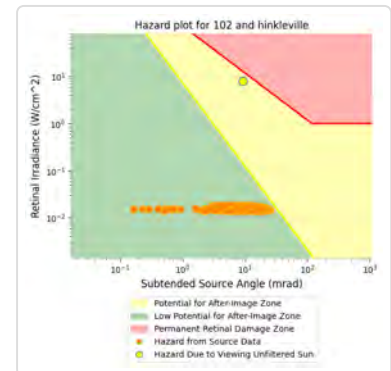
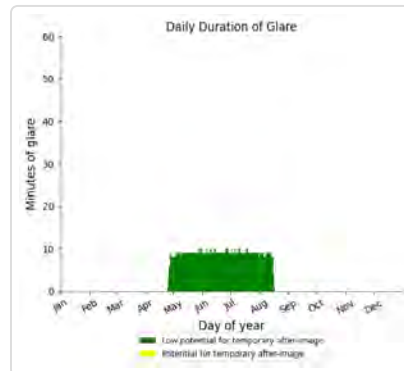
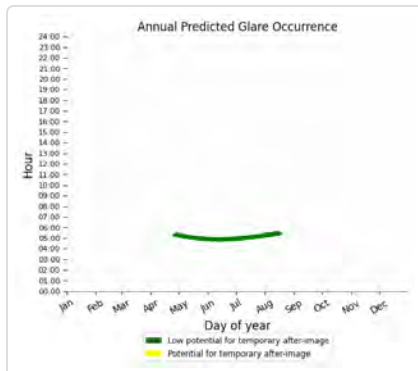
102: Gage Road

No glare found

102: Hinkleville Road

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

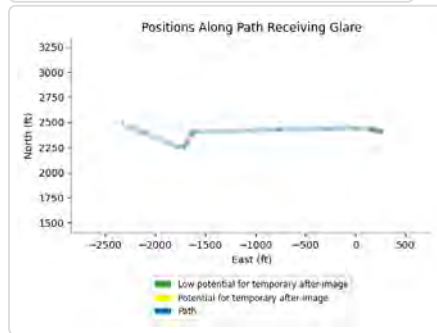
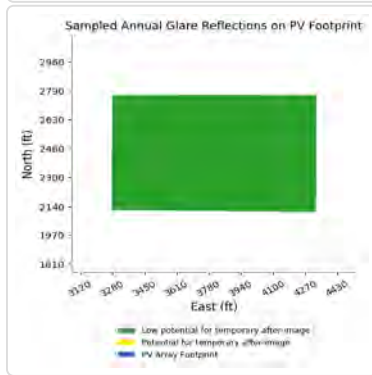
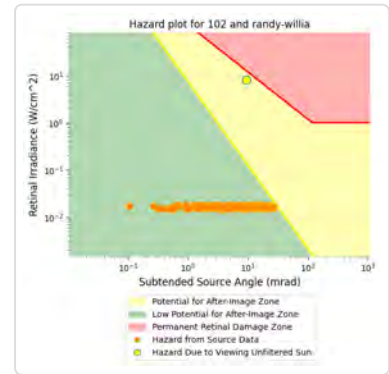
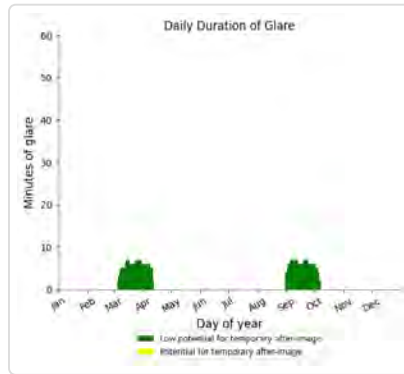
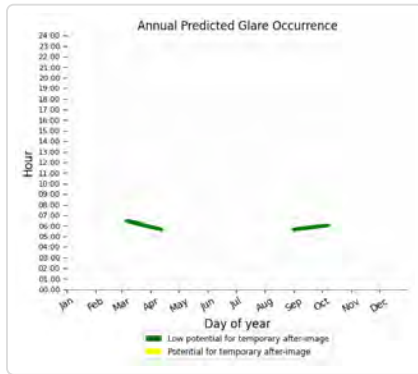
- 1,010 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



102: Randy Williams Road

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

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



103 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0

OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0
Route: Hinkleville Road	1147	0
Route: Randy Williams Road	805	0

103: Barkley Regional Airport Runway 14

No glare found

103: Barkley Regional Airport Runway 23

No glare found

103: Barkley Regional Airport Runway 32

No glare found

103: Barkley Regional Airport Runway 5

No glare found

103: 1-ATCT

No glare found

103: OP 2

No glare found

103: OP 3
No glare found

103: OP 4
No glare found

103: OP 5
No glare found

103: OP 6
No glare found

103: OP 7
No glare found

103: OP 8
No glare found

103: OP 9
No glare found

103: OP 10
No glare found

103: OP 11
No glare found

103: OP 12
No glare found

103: OP 13
No glare found

103: OP 14
No glare found

103: OP 15
No glare found

103: OP 16
No glare found

103: OP 17
No glare found

103: OP 18

No glare found

103: OP 19

No glare found

103: OP 20

No glare found

103: OP 21

No glare found

103: OP 22

No glare found

103: OP 23

No glare found

103: OP 24

No glare found

103: OP 25

No glare found

103: OP 26

No glare found

103: OP 27

No glare found

103: OP 28

No glare found

103: OP 29

No glare found

103: OP 30

No glare found

103: OP 31

No glare found

103: OP 32

No glare found

103: OP 33

No glare found

103: OP 34

No glare found

103: OP 35

No glare found

103: OP 36

No glare found

103: OP 37

No glare found

103: OP 38

No glare found

103: OP 39

No glare found

103: OP 40

No glare found

103: Ceredo Road

No glare found

103: Davis Road north segment

No glare found

103: Davis Road south segment

No glare found

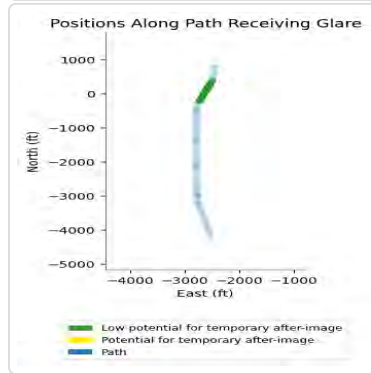
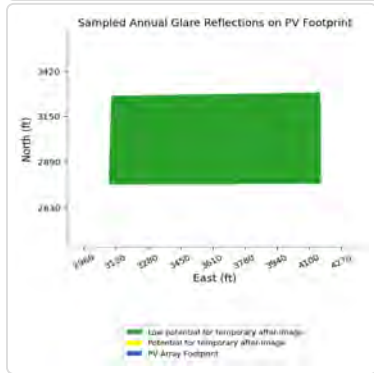
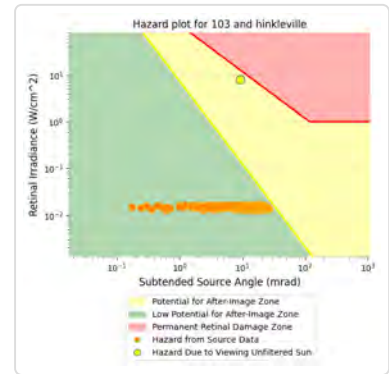
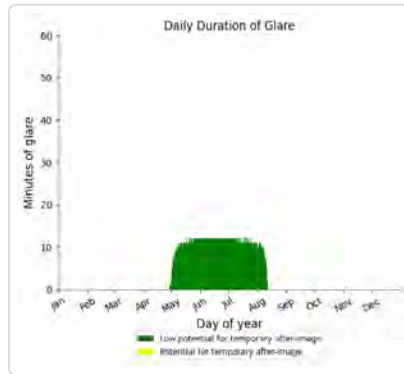
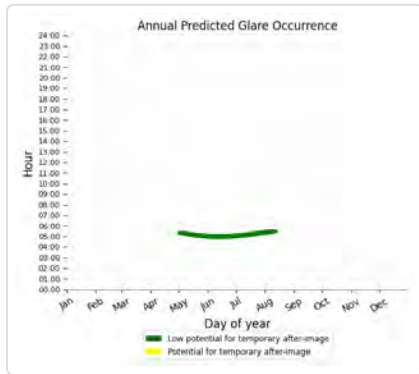
103: Gage Road

No glare found

103: Hinkleville Road

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

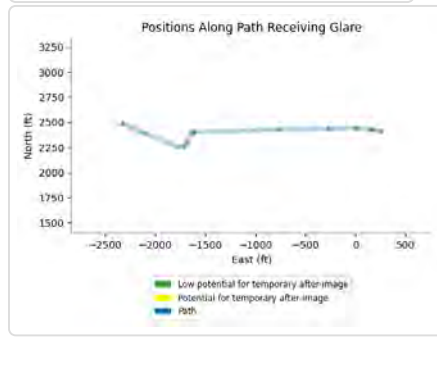
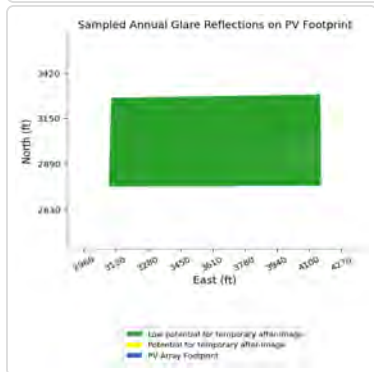
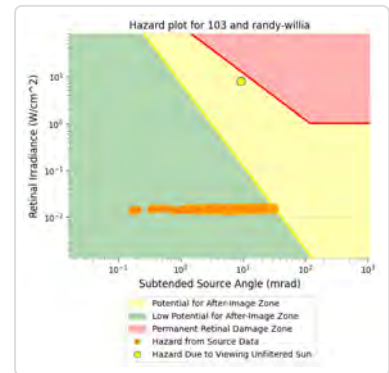
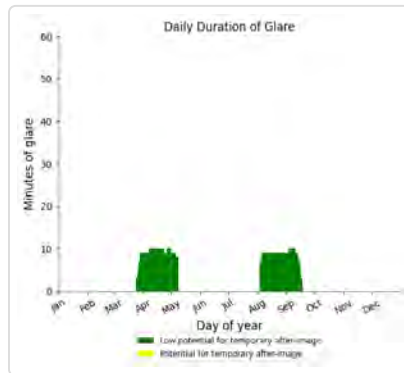
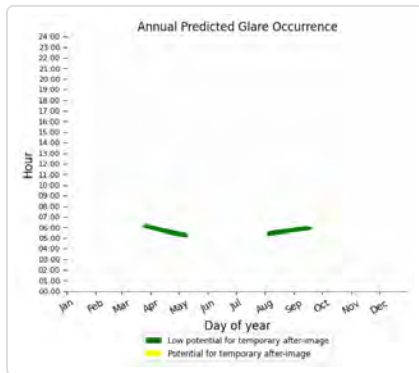
- 1,147 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



103: Randy Williams Road

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

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



104 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0

Route: Gage Road	0	0
Route: Hinkleville Road	903	0
Route: Randy Williams Road	442	0

104: Barkley Regional Airport Runway 14

No glare found

104: Barkley Regional Airport Runway 23

No glare found

104: Barkley Regional Airport Runway 32

No glare found

104: Barkley Regional Airport Runway 5

No glare found

104: 1-ATCT

No glare found

104: OP 2

No glare found

104: OP 3

No glare found

104: OP 4

No glare found

104: OP 5

No glare found

104: OP 6

No glare found

104: OP 7

No glare found

104: OP 8

No glare found

104: OP 9

No glare found

104: OP 10

No glare found

104: OP 11

No glare found

104: OP 12

No glare found

104: OP 13

No glare found

104: OP 14

No glare found

104: OP 15

No glare found

104: OP 16

No glare found

104: OP 17

No glare found

104: OP 18

No glare found

104: OP 19

No glare found

104: OP 20

No glare found

104: OP 21

No glare found

104: OP 22

No glare found

104: OP 23

No glare found

104: OP 24

No glare found

104: OP 25

No glare found

104: OP 26

No glare found

104: OP 27

No glare found

104: OP 28

No glare found

104: OP 29

No glare found

104: OP 30

No glare found

104: OP 31

No glare found

104: OP 32

No glare found

104: OP 33

No glare found

104: OP 34

No glare found

104: OP 35

No glare found

104: OP 36

No glare found

104: OP 37

No glare found

104: OP 38

No glare found

104: OP 39

No glare found

104: OP 40

No glare found

104: Ceredo Road

No glare found

104: Davis Road north segment

No glare found

104: Davis Road south segment

No glare found

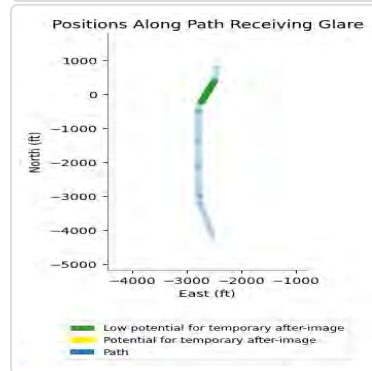
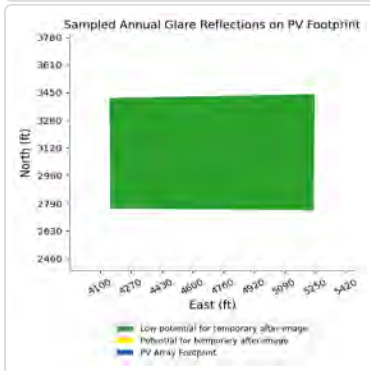
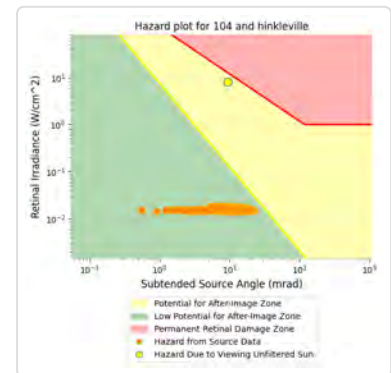
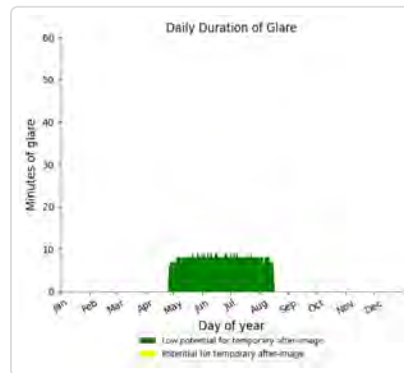
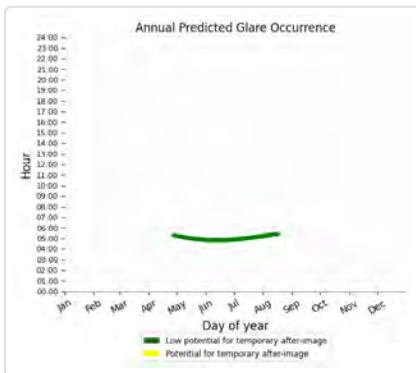
104: Gage Road

No glare found

104: Hinkleville Road

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

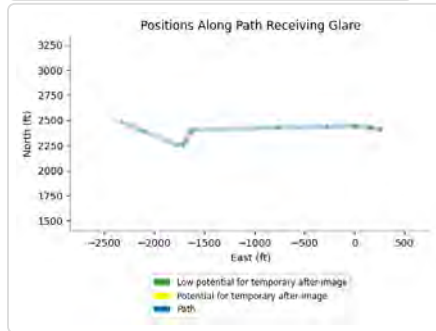
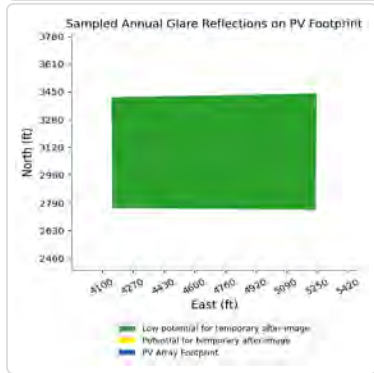
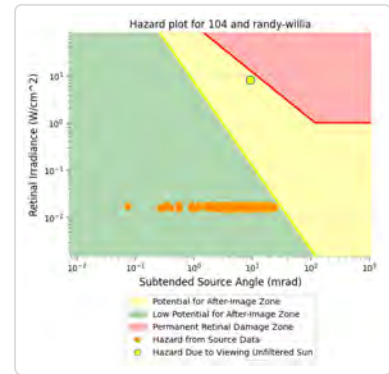
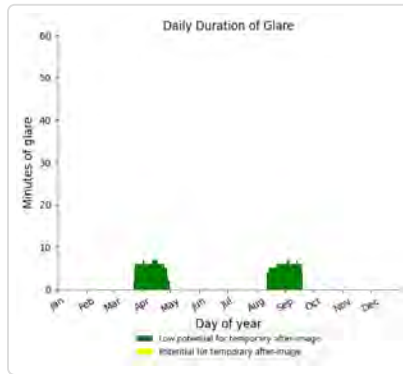
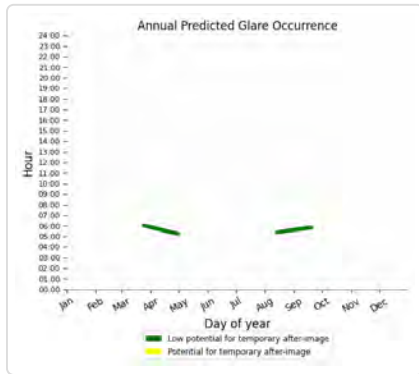
- 903 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



104: Randy Williams Road

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

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



105 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0

OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0
Route: Hinkleville Road	821	0
Route: Randy Williams Road	290	0

105: Barkley Regional Airport Runway 14

No glare found

105: Barkley Regional Airport Runway 23

No glare found

105: Barkley Regional Airport Runway 32

No glare found

105: Barkley Regional Airport Runway 5

No glare found

105: 1-ATCT

No glare found

105: OP 2

No glare found

105: OP 3
No glare found

105: OP 4
No glare found

105: OP 5
No glare found

105: OP 6
No glare found

105: OP 7
No glare found

105: OP 8
No glare found

105: OP 9
No glare found

105: OP 10
No glare found

105: OP 11
No glare found

105: OP 12
No glare found

105: OP 13
No glare found

105: OP 14
No glare found

105: OP 15
No glare found

105: OP 16
No glare found

105: OP 17
No glare found

105: OP 18

No glare found

105: OP 19

No glare found

105: OP 20

No glare found

105: OP 21

No glare found

105: OP 22

No glare found

105: OP 23

No glare found

105: OP 24

No glare found

105: OP 25

No glare found

105: OP 26

No glare found

105: OP 27

No glare found

105: OP 28

No glare found

105: OP 29

No glare found

105: OP 30

No glare found

105: OP 31

No glare found

105: OP 32

No glare found

105: OP 33

No glare found

105: OP 34

No glare found

105: OP 35

No glare found

105: OP 36

No glare found

105: OP 37

No glare found

105: OP 38

No glare found

105: OP 39

No glare found

105: OP 40

No glare found

105: Ceredo Road

No glare found

105: Davis Road north segment

No glare found

105: Davis Road south segment

No glare found

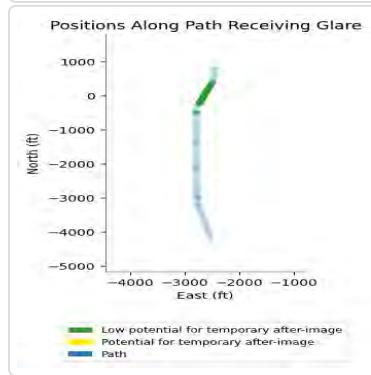
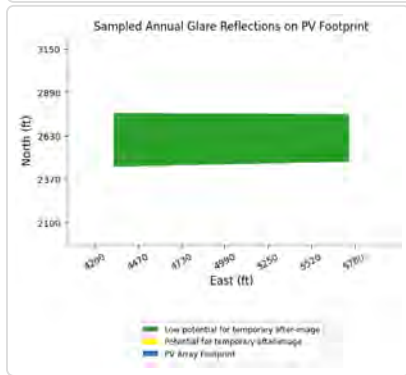
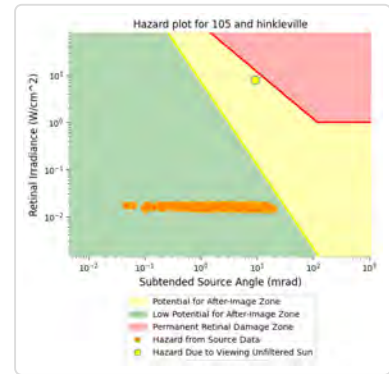
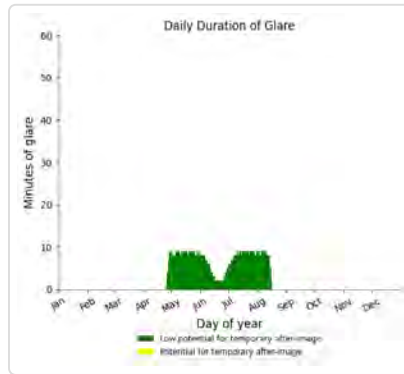
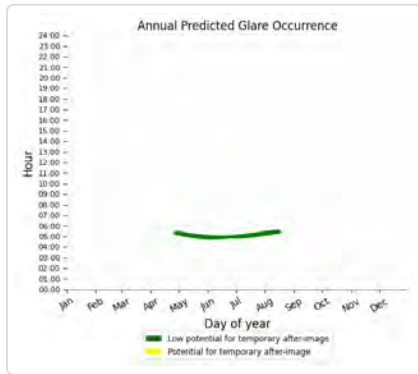
105: Gage Road

No glare found

105: Hinkleville Road

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

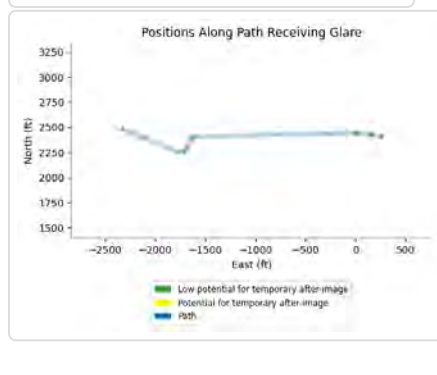
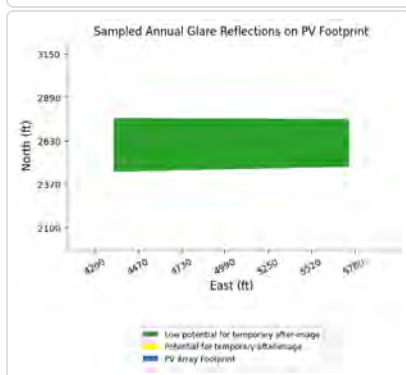
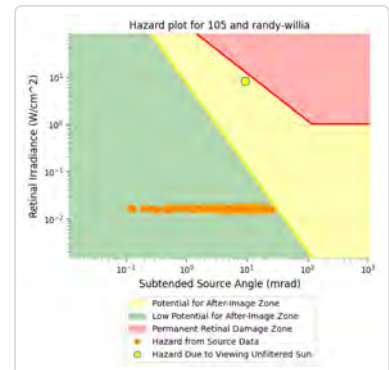
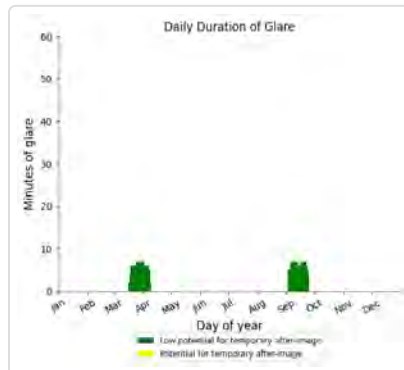
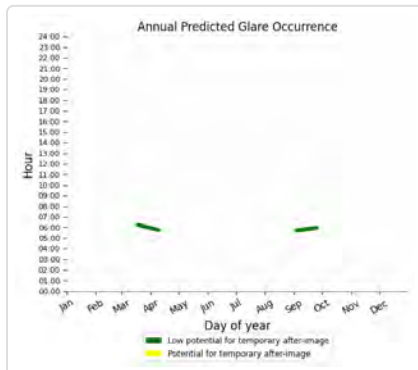
- 821 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



105: Randy Williams Road

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

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



Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	179	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	83	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0

Route: Gage Road	0	0
Route: Hinkleville Road	942	0
Route: Randy Williams Road	386	0

106: Barkley Regional Airport Runway 14

No glare found

106: Barkley Regional Airport Runway 23

No glare found

106: Barkley Regional Airport Runway 32

No glare found

106: Barkley Regional Airport Runway 5

No glare found

106: 1-ATCT

No glare found

106: OP 2

No glare found

106: OP 3

No glare found

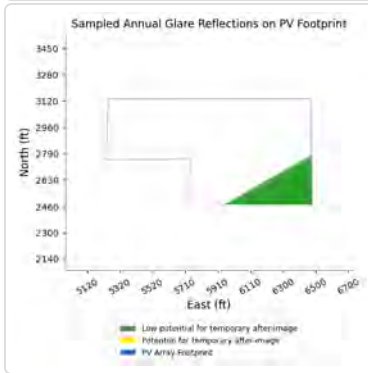
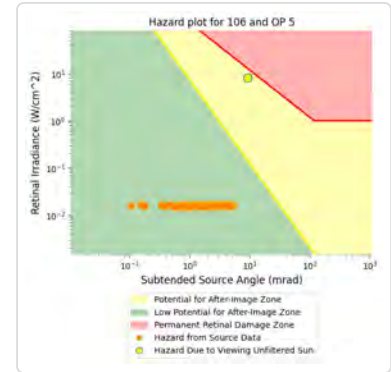
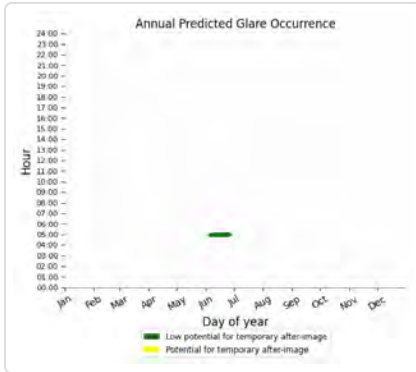
106: OP 4

No glare found

106: OP 5

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

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



106: OP 6

No glare found

106: OP 7

No glare found

106: OP 8

No glare found

106: OP 9

No glare found

106: OP 10

No glare found

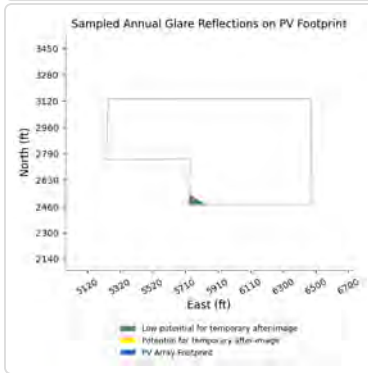
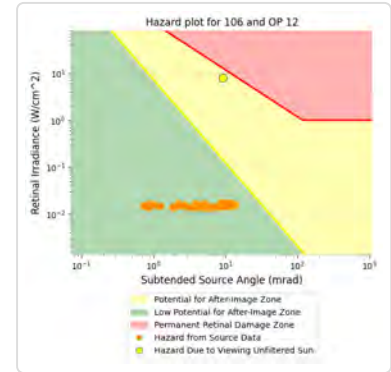
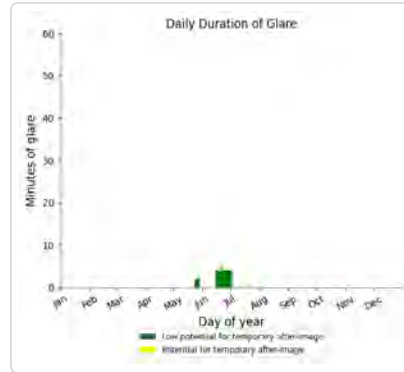
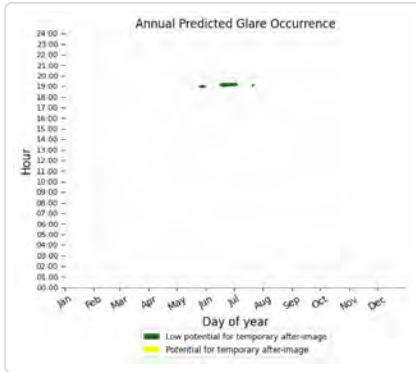
106: OP 11

No glare found

106: OP 12

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

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



106: OP 13

No glare found

106: OP 14

No glare found

106: OP 15

No glare found

106: OP 16

No glare found

106: OP 17

No glare found

106: OP 18

No glare found

106: OP 19

No glare found

106: OP 20

No glare found

106: OP 21

No glare found

106: OP 22

No glare found

106: OP 23

No glare found

106: OP 24

No glare found

106: OP 25

No glare found

106: OP 26

No glare found

106: OP 27

No glare found

106: OP 28

No glare found

106: OP 29

No glare found

106: OP 30

No glare found

106: OP 31

No glare found

106: OP 32

No glare found

106: OP 33

No glare found

106: OP 34

No glare found

106: OP 35

No glare found

106: OP 36

No glare found

106: OP 37

No glare found

106: OP 38

No glare found

106: OP 39

No glare found

106: OP 40

No glare found

106: Ceredo Road

No glare found

106: Davis Road north segment

No glare found

106: Davis Road south segment

No glare found

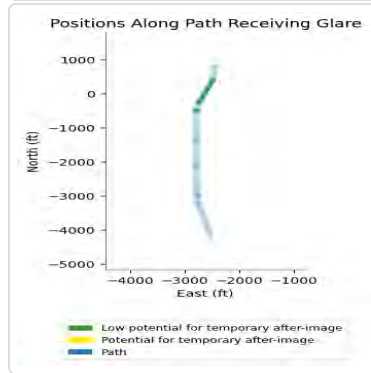
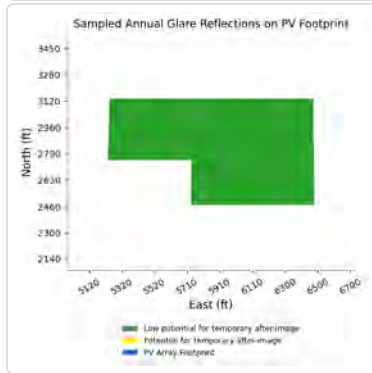
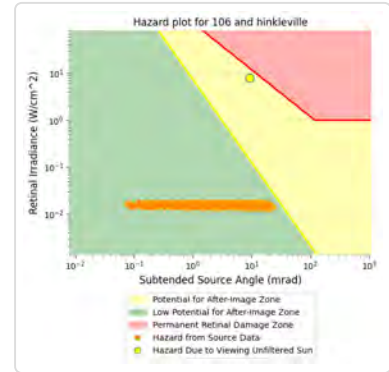
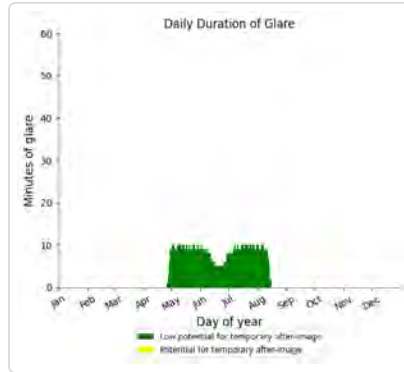
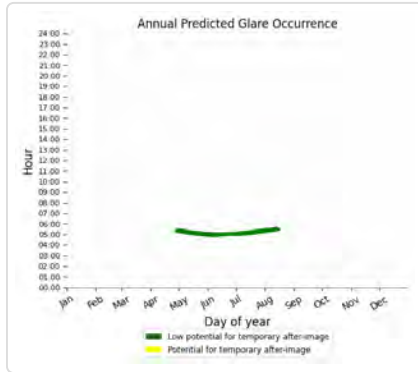
106: Gage Road

No glare found

106: Hinkleville Road

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

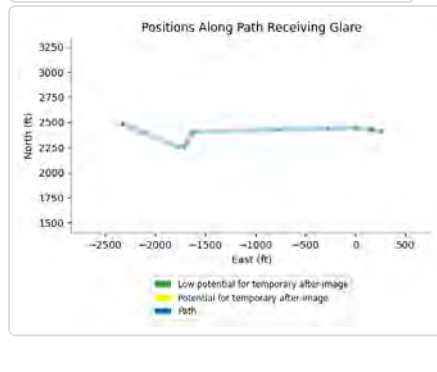
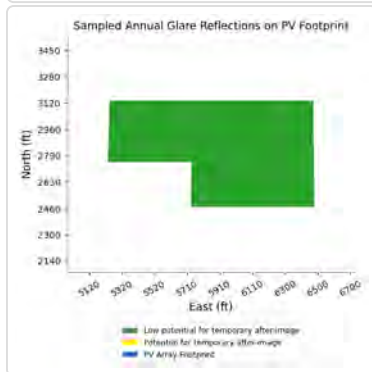
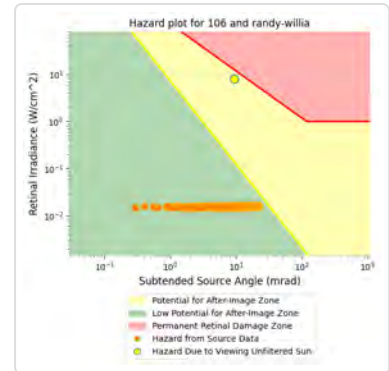
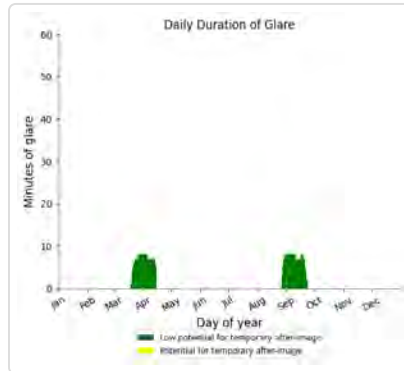
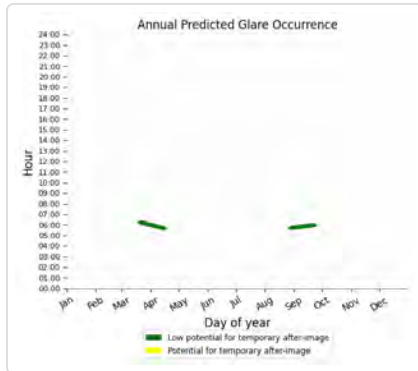
- 942 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



106: Randy Williams Road

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

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



Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	224	0
OP: OP 3	180	0
OP: OP 4	145	0
OP: OP 5	116	0
OP: OP 6	101	0
OP: OP 7	122	0
OP: OP 8	109	0
OP: OP 9	233	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	267	199
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	618	379

Route: Gage Road	0	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

107: Barkley Regional Airport Runway 14

No glare found

107: Barkley Regional Airport Runway 23

No glare found

107: Barkley Regional Airport Runway 32

No glare found

107: Barkley Regional Airport Runway 5

No glare found

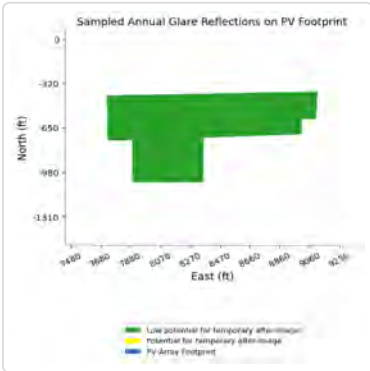
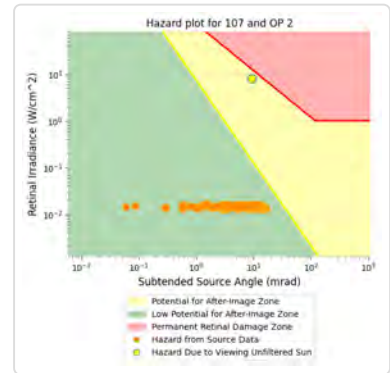
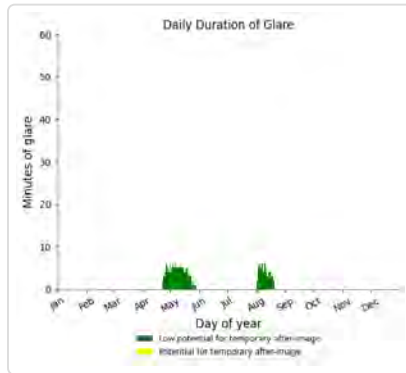
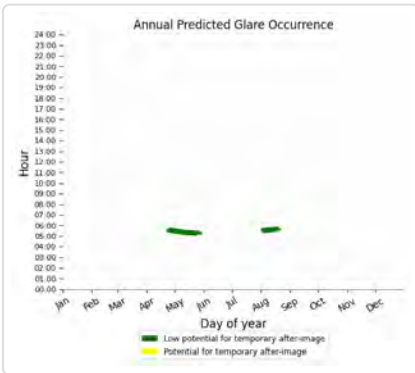
107: 1-ATCT

No glare found

107: OP 2

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

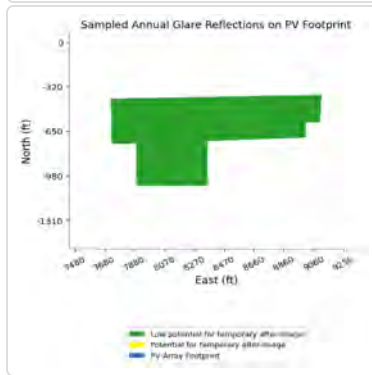
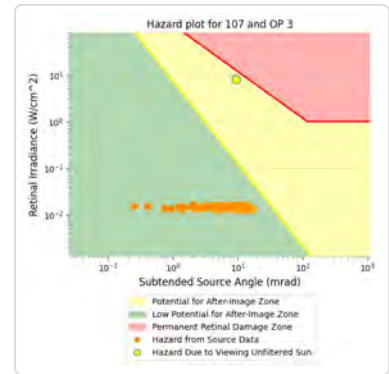
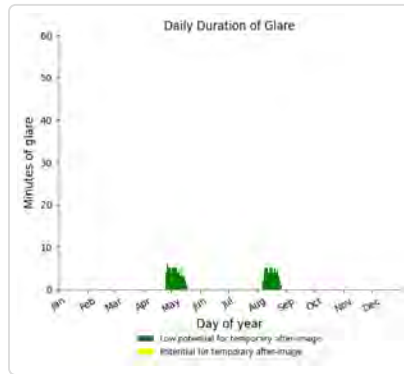
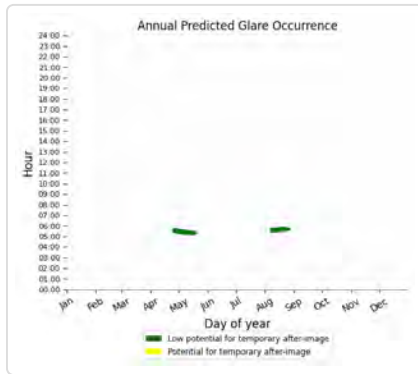
- 224 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 3

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

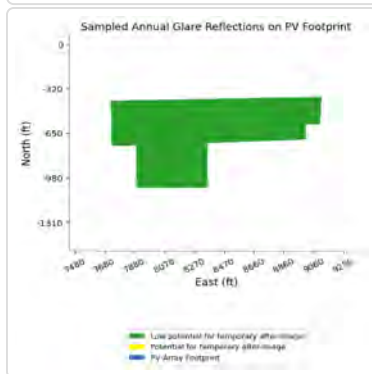
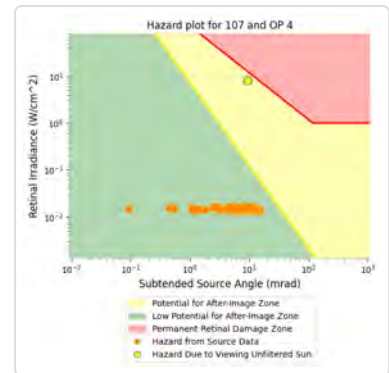
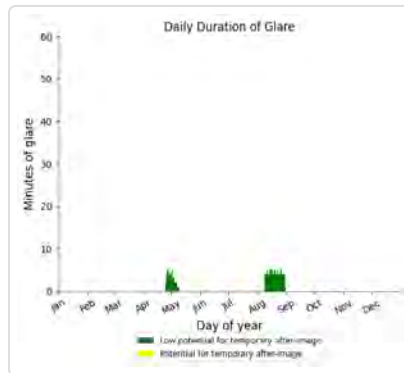
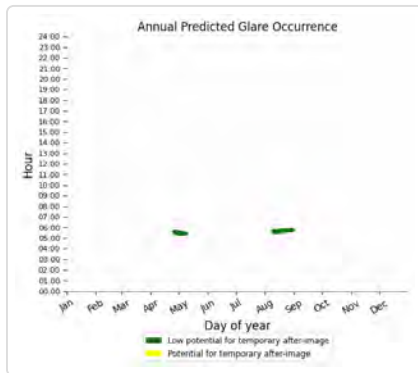
- 180 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 4

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

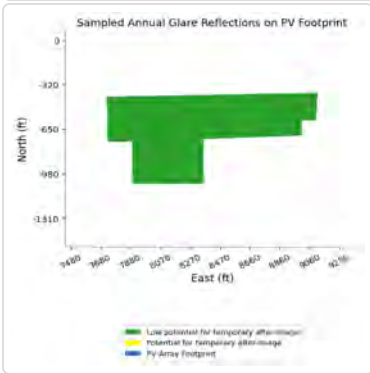
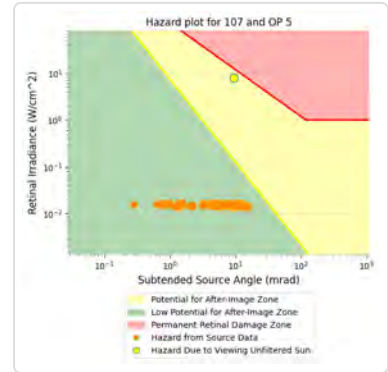
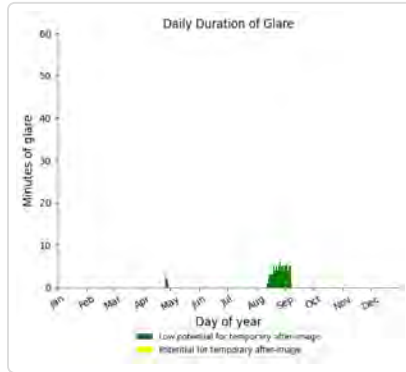
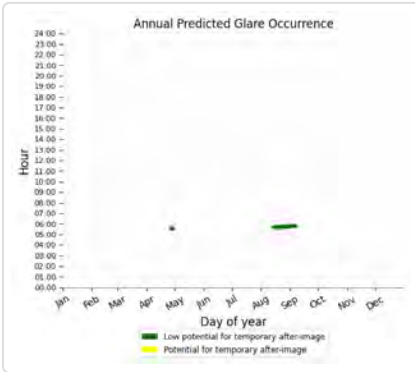
- 145 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 5

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

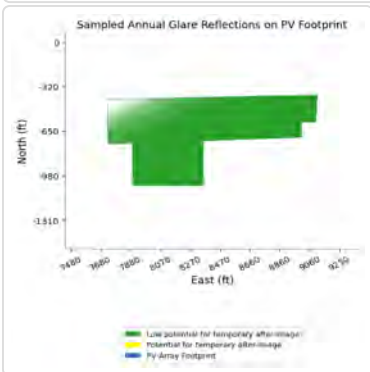
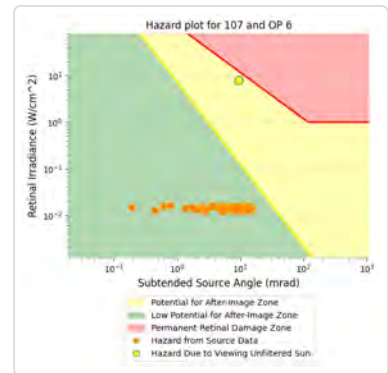
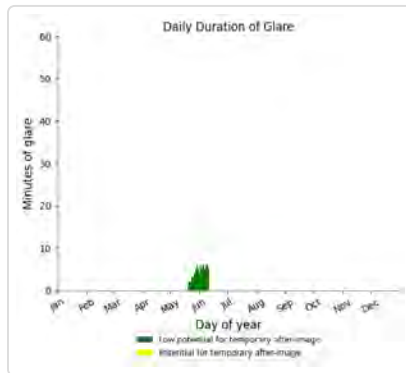
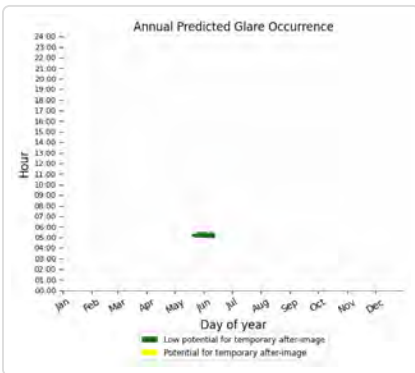
- 116 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 6

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

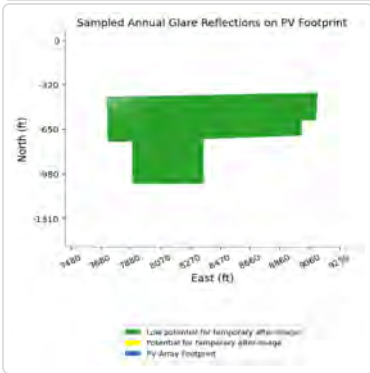
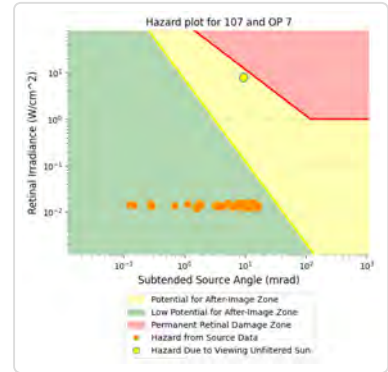
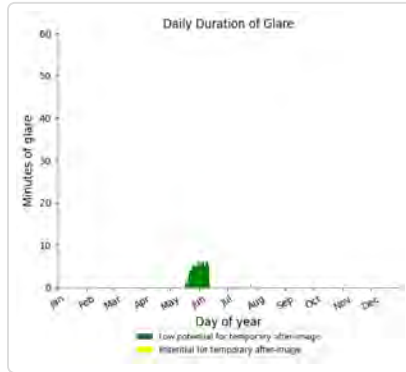
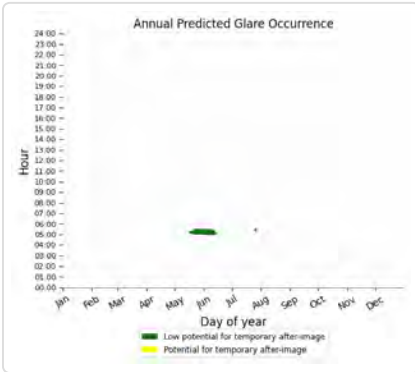
- 101 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 7

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

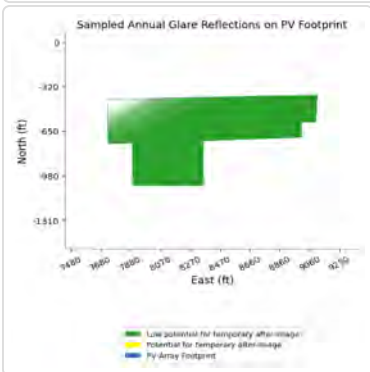
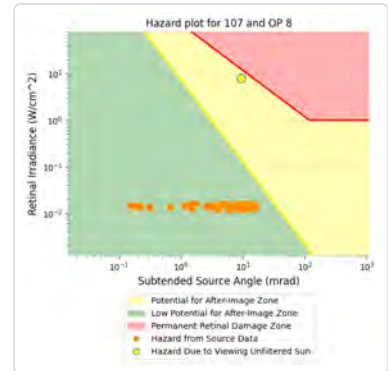
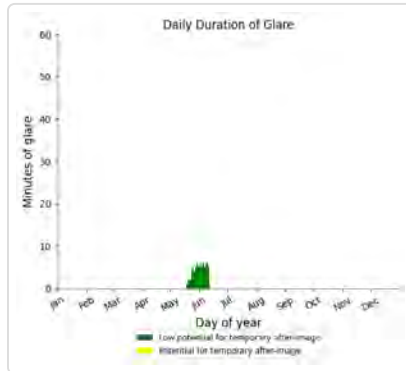
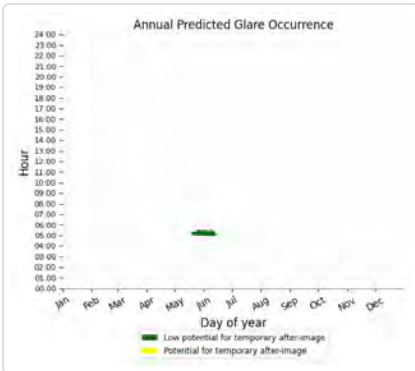
- 122 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 8

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

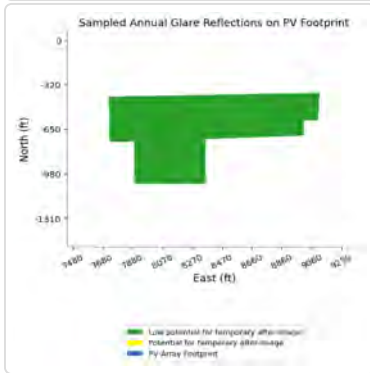
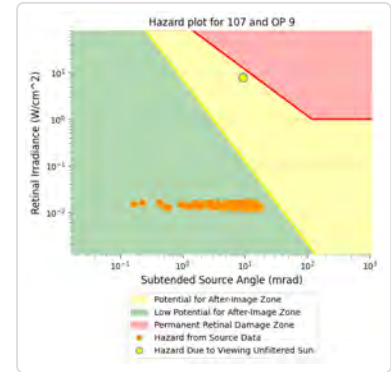
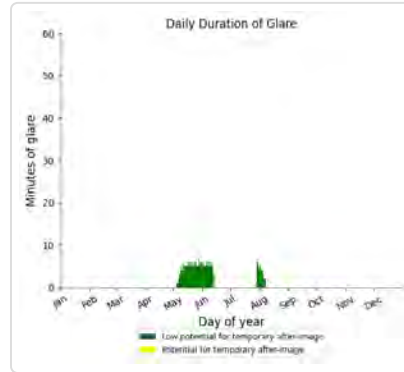
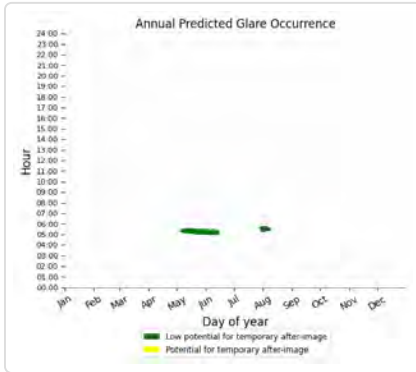
- 109 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



107: OP 9

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

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



107: OP 10

No glare found

107: OP 11

No glare found

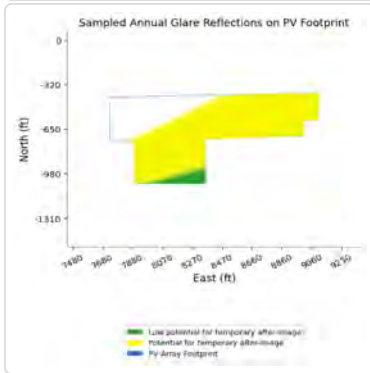
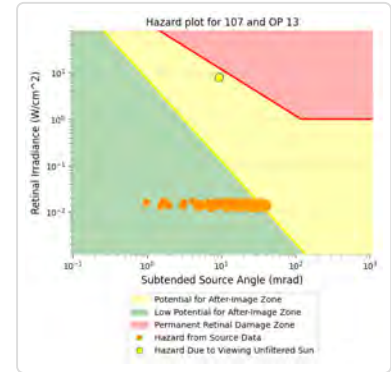
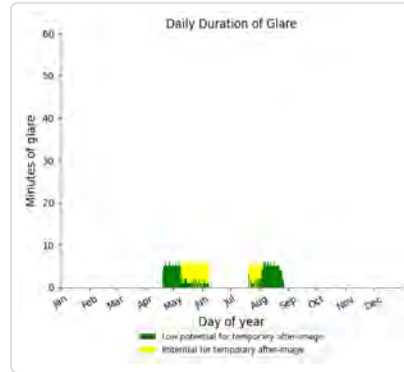
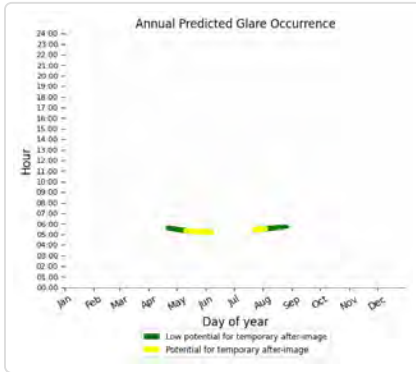
107: OP 12

No glare found

107: OP 13

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

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



107: OP 14

No glare found

107: OP 15

No glare found

107: OP 16

No glare found

107: OP 17

No glare found

107: OP 18

No glare found

107: OP 19

No glare found

107: OP 20

No glare found

107: OP 21

No glare found

107: OP 22

No glare found

107: OP 23

No glare found

107: OP 24

No glare found

107: OP 25

No glare found

107: OP 26

No glare found

107: OP 27

No glare found

107: OP 28

No glare found

107: OP 29

No glare found

107: OP 30

No glare found

107: OP 31

No glare found

107: OP 32

No glare found

107: OP 33

No glare found

107: OP 34

No glare found

107: OP 35

No glare found

107: OP 36

No glare found

107: OP 37

No glare found

107: OP 38

No glare found

107: OP 39

No glare found

107: OP 40

No glare found

107: Ceredo Road

No glare found

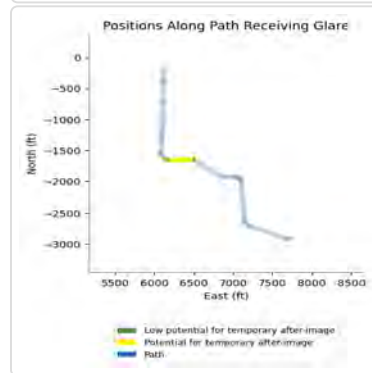
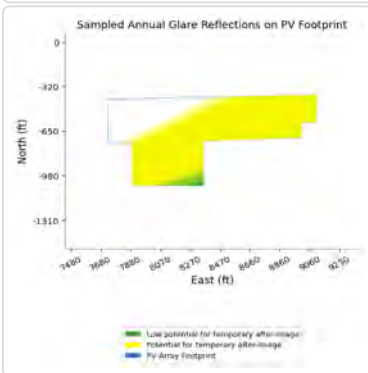
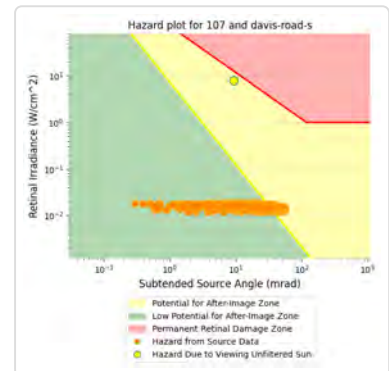
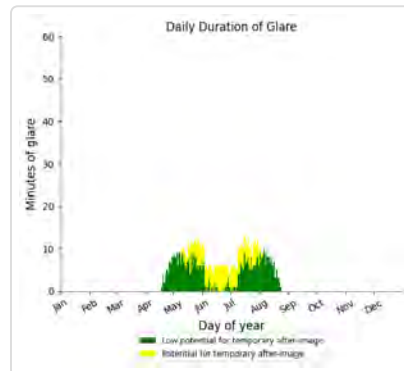
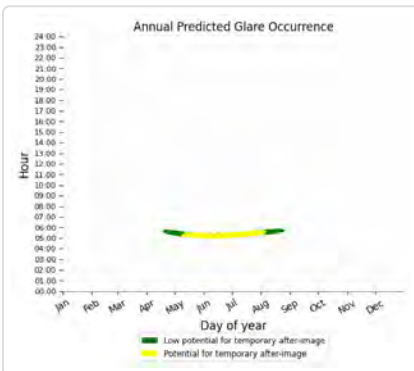
107: Davis Road north segment

No glare found

107: Davis Road south segment

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

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



107: Gage Road

No glare found

107: Hinkleville Road

No glare found

107: Randy Williams Road

No glare found

108 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	15	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	257	0
OP: OP 7	280	0
OP: OP 8	263	0
OP: OP 9	244	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	117	221
OP: OP 15	282	4
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	29	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
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	308	1082
Route: Gage Road	0	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

108: Barkley Regional Airport Runway 14

No glare found

108: Barkley Regional Airport Runway 23

No glare found

108: Barkley Regional Airport Runway 32

No glare found

108: Barkley Regional Airport Runway 5

No glare found

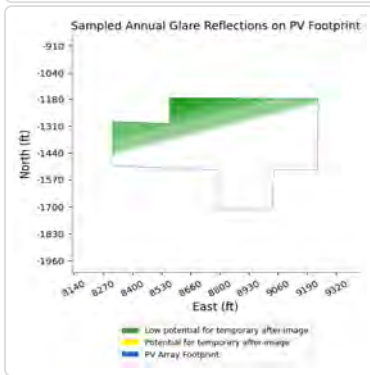
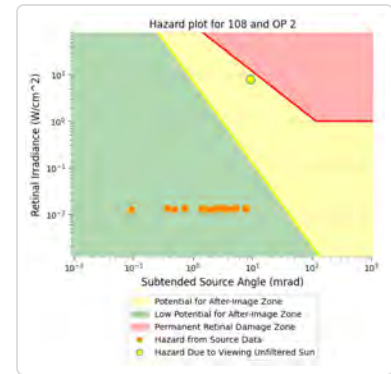
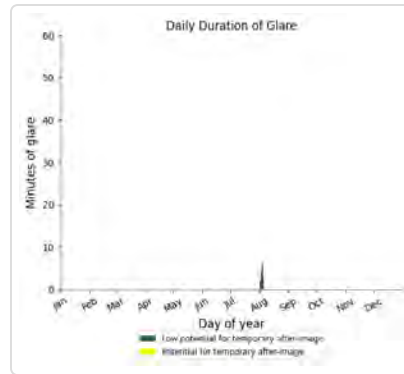
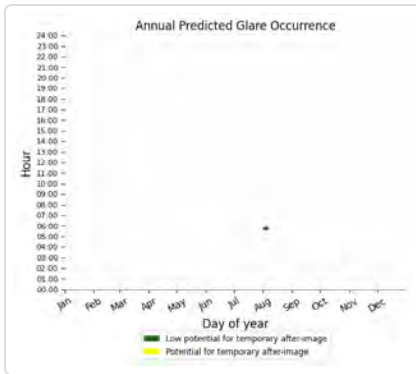
108: 1-ATCT

No glare found

108: OP 2

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

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



108: OP 3

No glare found

108: OP 4

No glare found

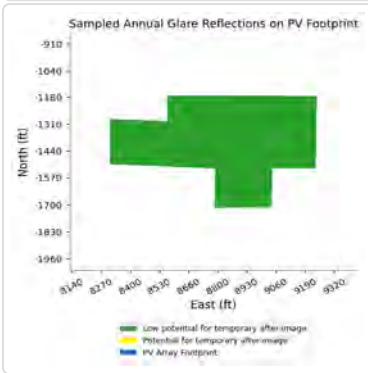
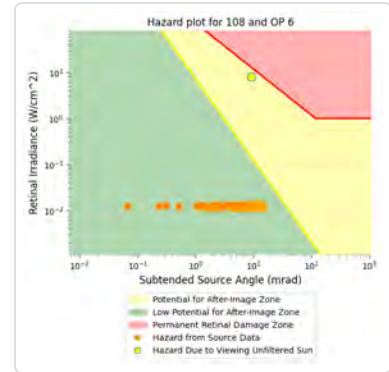
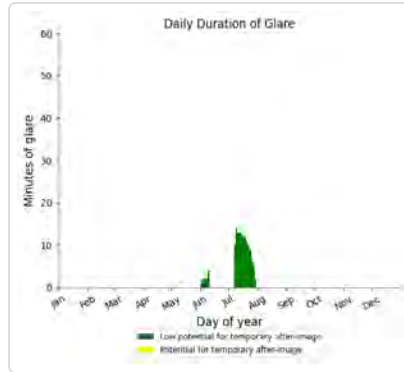
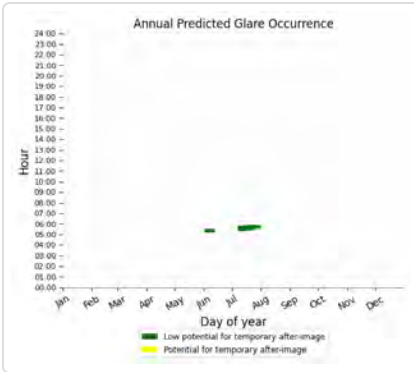
108: OP 5

No glare found

108: OP 6

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

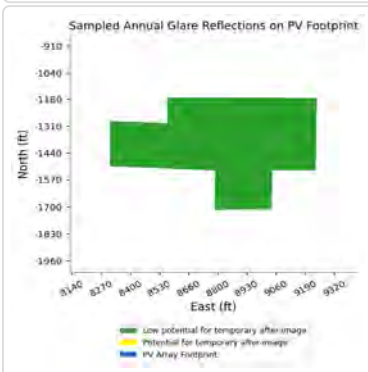
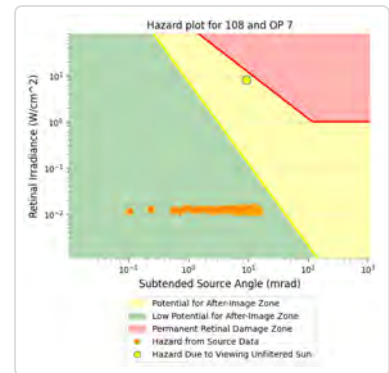
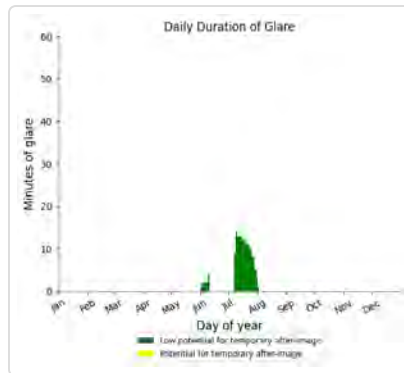
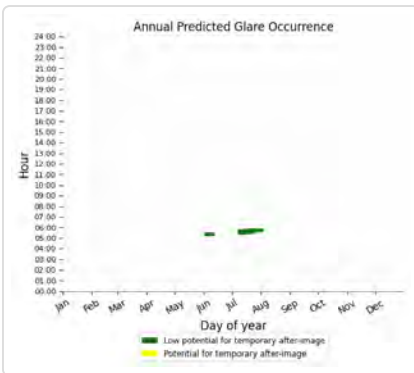
- 257 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



108: OP 7

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

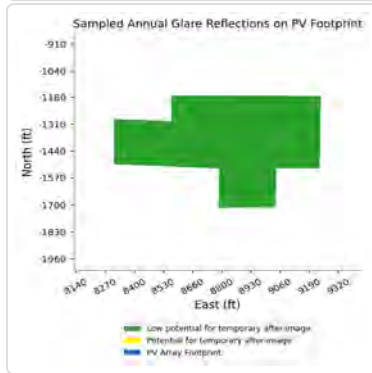
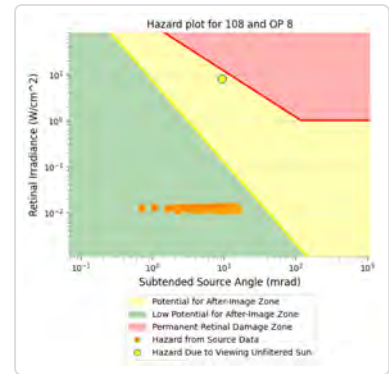
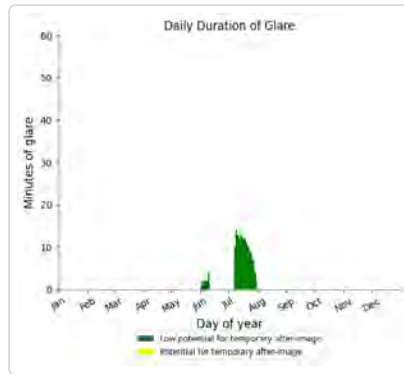
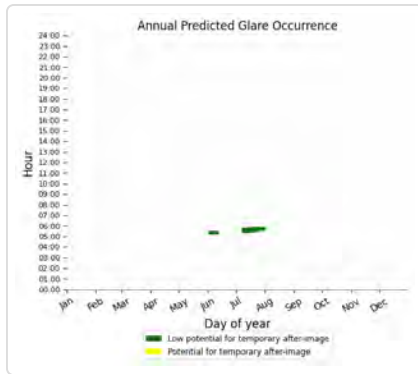
- 280 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



108: OP 8

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

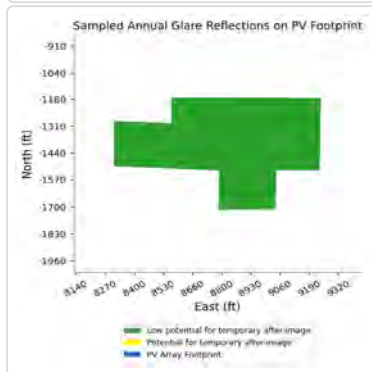
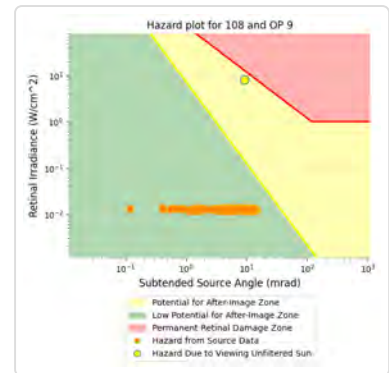
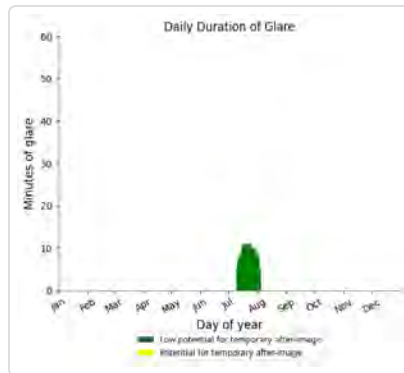
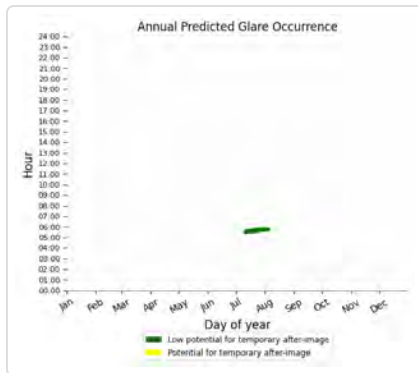
- 263 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



108: OP 9

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

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



108: OP 10

No glare found

108: OP 11

No glare found

108: OP 12

No glare found

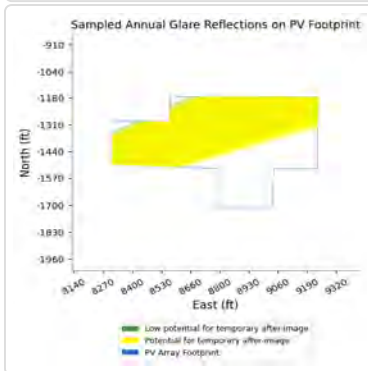
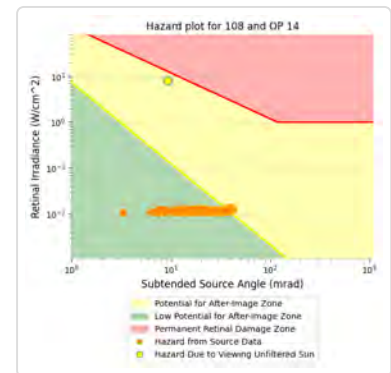
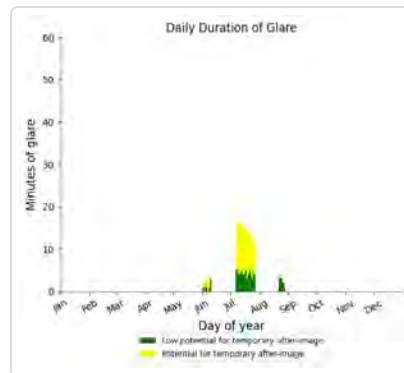
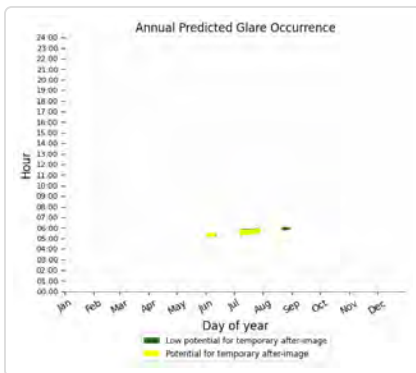
108: OP 13

No glare found

108: OP 14

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

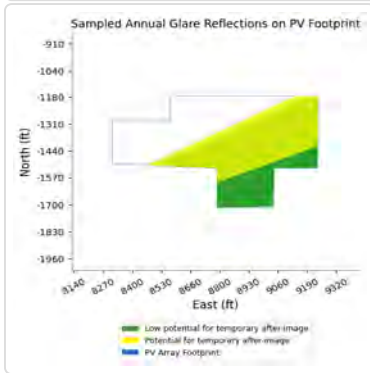
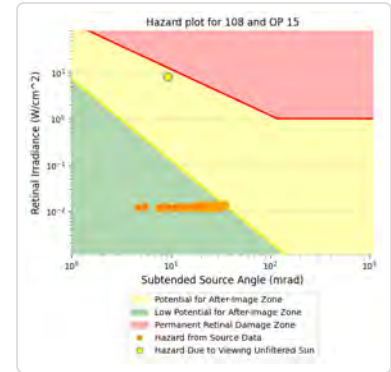
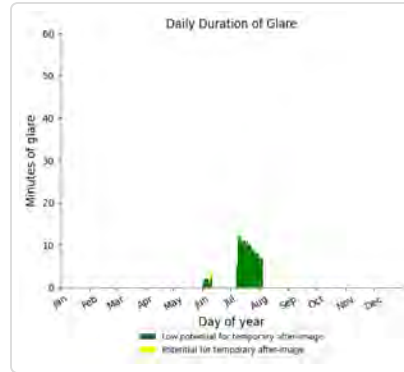
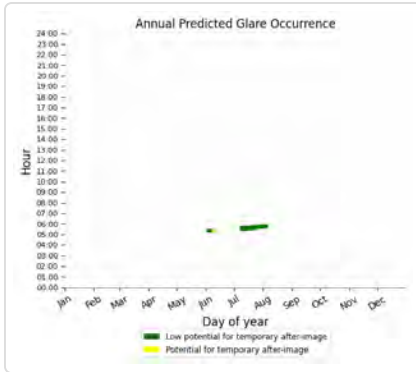
- 117 minutes of "green" glare with low potential to cause temporary after-image.
- 221 minutes of "yellow" glare with potential to cause temporary after-image.



108: OP 15

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

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



108: OP 16

No glare found

108: OP 17

No glare found

108: OP 18

No glare found

108: OP 19

No glare found

108: OP 20

No glare found

108: OP 21

No glare found

108: OP 22

No glare found

108: OP 23

No glare found

108: OP 24

No glare found

108: OP 25

No glare found

108: OP 26

No glare found

108: OP 27

No glare found

108: OP 28

No glare found

108: OP 29

No glare found

108: OP 30

No glare found

108: OP 31

No glare found

108: OP 32

No glare found

108: OP 33

No glare found

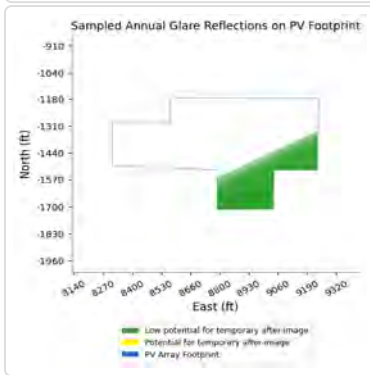
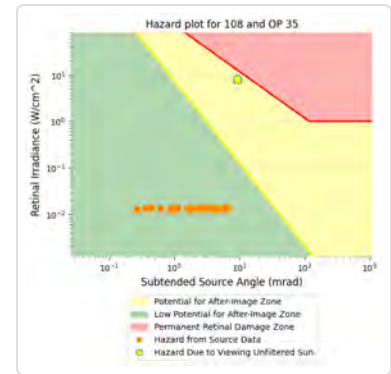
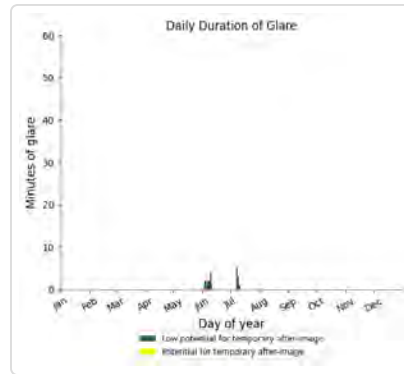
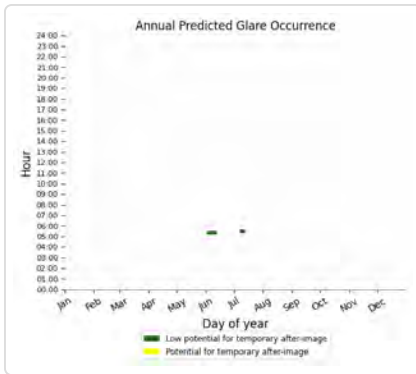
108: OP 34

No glare found

108: OP 35

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

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



108: OP 36

No glare found

108: OP 37

No glare found

108: OP 38

No glare found

108: OP 39

No glare found

108: OP 40

No glare found

108: Ceredo Road

No glare found

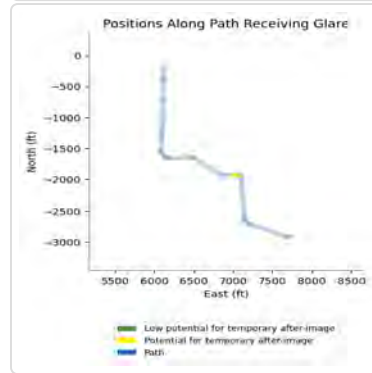
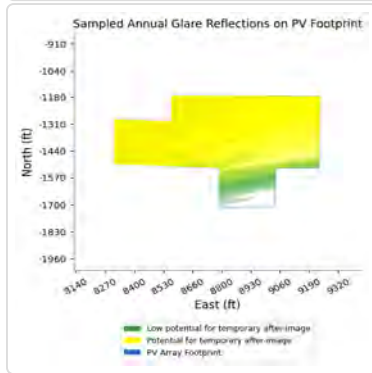
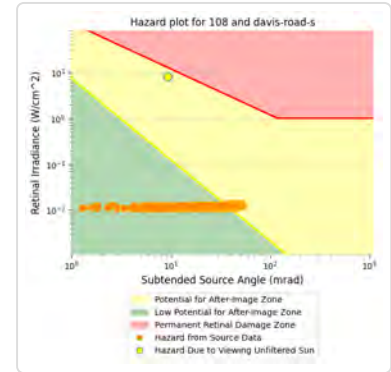
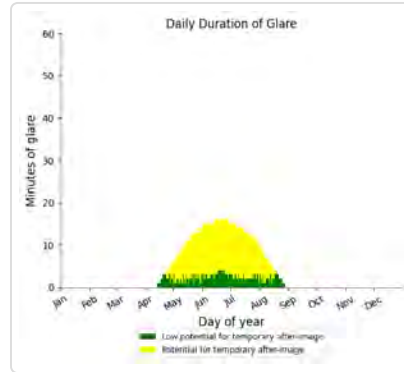
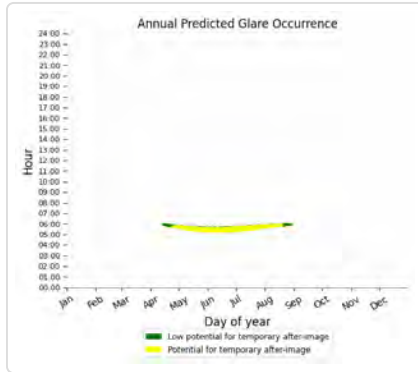
108: Davis Road north segment

No glare found

108: Davis Road south segment

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

- 308 minutes of "green" glare with low potential to cause temporary after-image.
- 1,082 minutes of "yellow" glare with potential to cause temporary after-image.



108: Gage Road

No glare found

108: Hinkleville Road

No glare found

108: Randy Williams Road

No glare found

109 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	605	0
OP: OP 7	593	0
OP: OP 8	604	0

OP: OP 9	266	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	1158	1833
OP: OP 15	957	1525
OP: OP 16	754	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	1013	107
OP: OP 30	0	0
OP: OP 31	357	0
OP: OP 32	328	0
OP: OP 33	301	0
OP: OP 34	406	0
OP: OP 35	474	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
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	1470	5188
Route: Gage Road	1018	182
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

109: Barkley Regional Airport Runway 14

No glare found

109: Barkley Regional Airport Runway 23

No glare found

109: Barkley Regional Airport Runway 32

No glare found

109: Barkley Regional Airport Runway 5

No glare found

109: 1-ATCT

No glare found

109: OP 2

No glare found

109: OP 3

No glare found

109: OP 4

No glare found

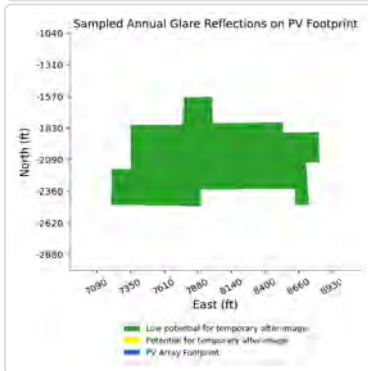
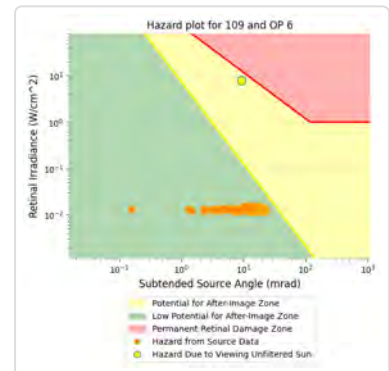
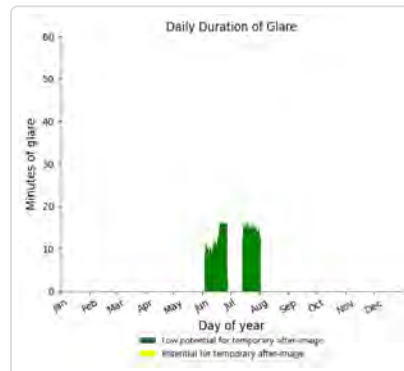
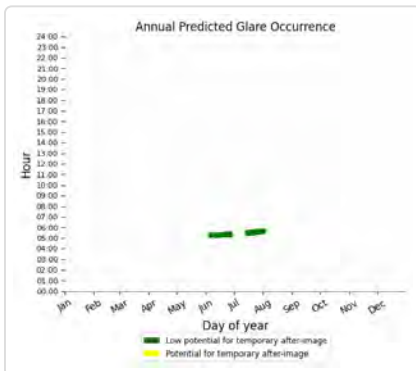
109: OP 5

No glare found

109: OP 6

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

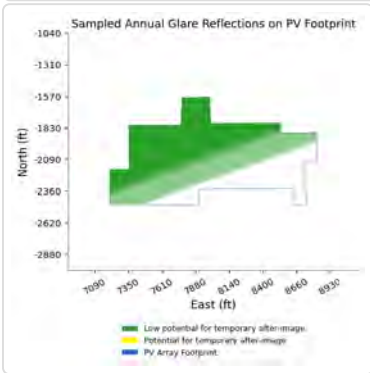
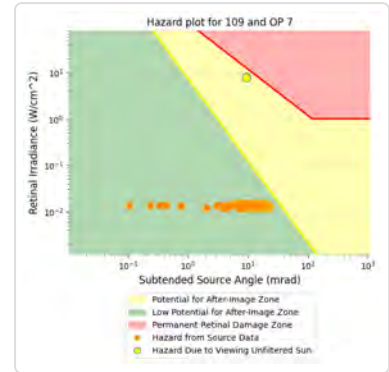
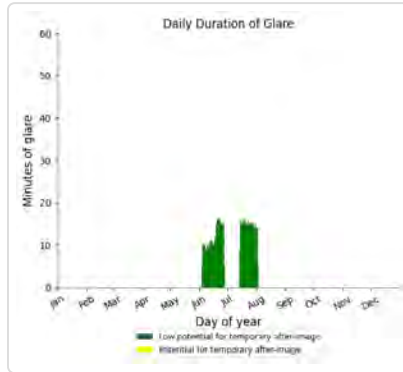
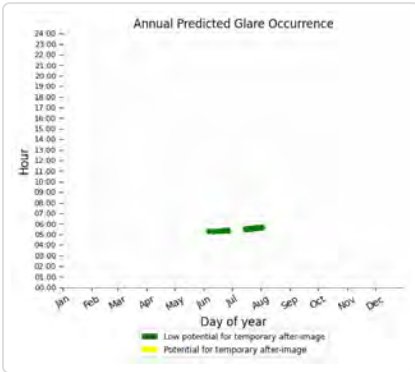
- 605 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 7

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

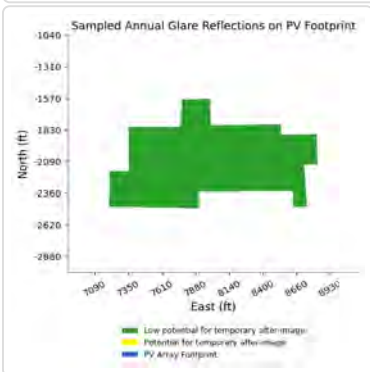
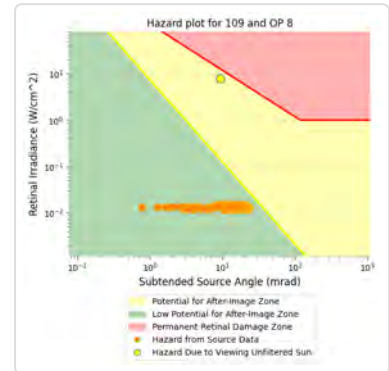
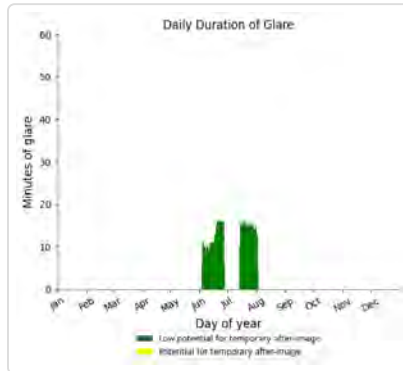
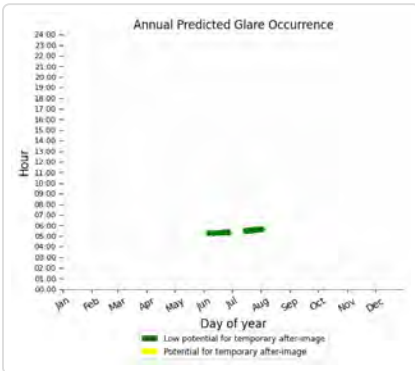
- 593 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 8

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

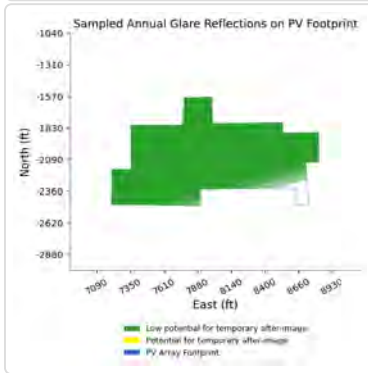
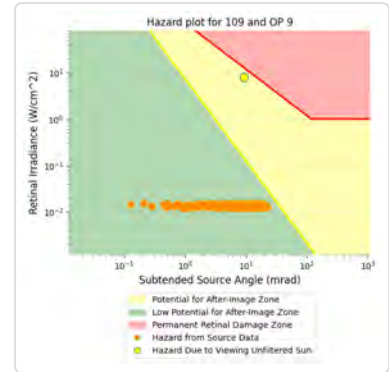
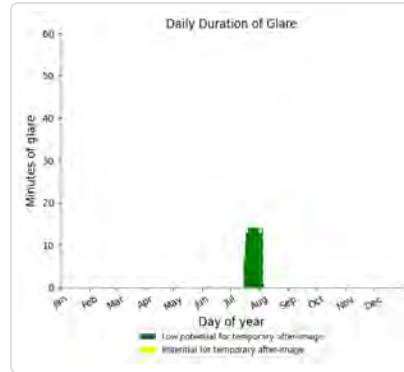
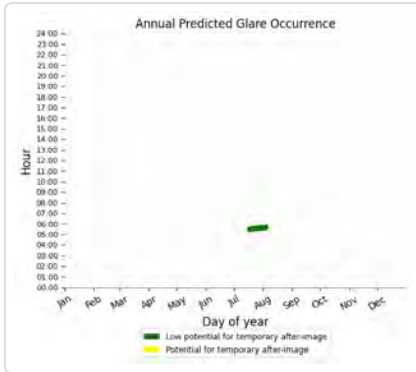
- 604 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 9

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

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



109: OP 10

No glare found

109: OP 11

No glare found

109: OP 12

No glare found

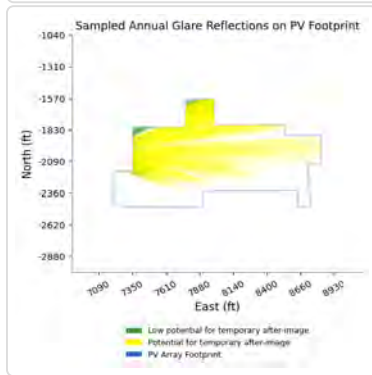
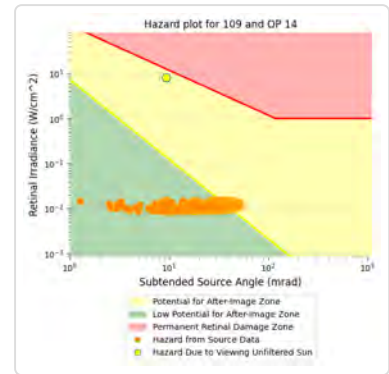
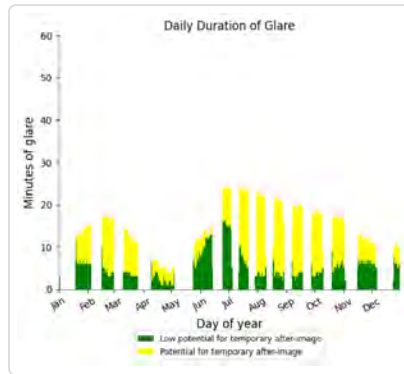
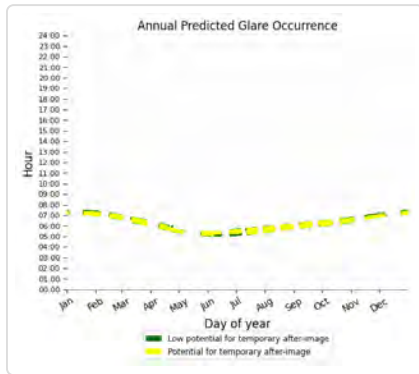
109: OP 13

No glare found

109: OP 14

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

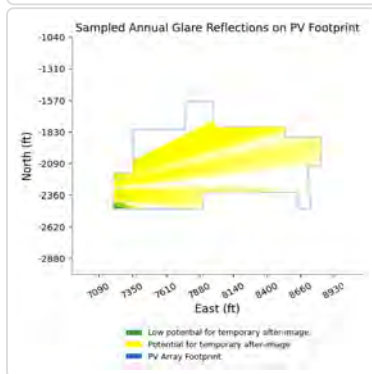
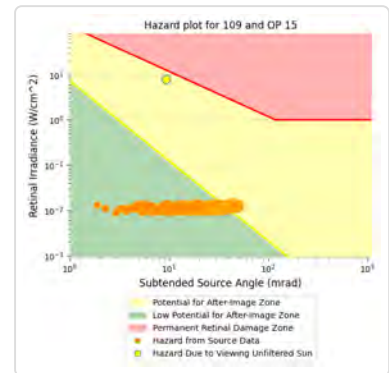
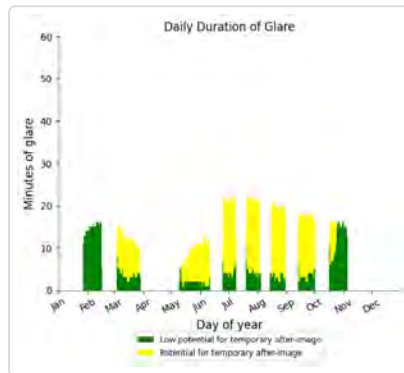
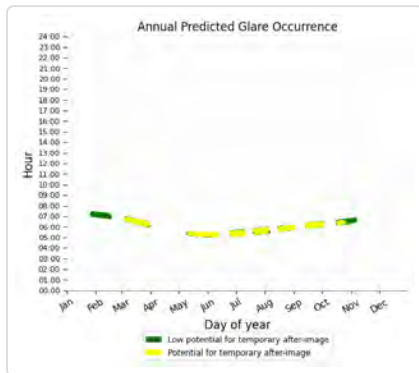
- 1,158 minutes of "green" glare with low potential to cause temporary after-image.
- 1,833 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 15

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

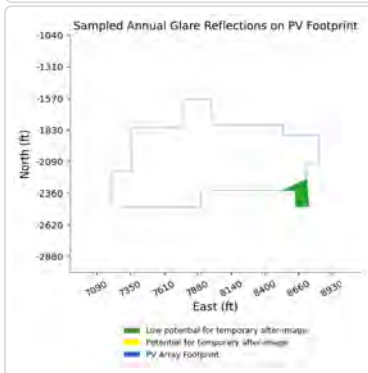
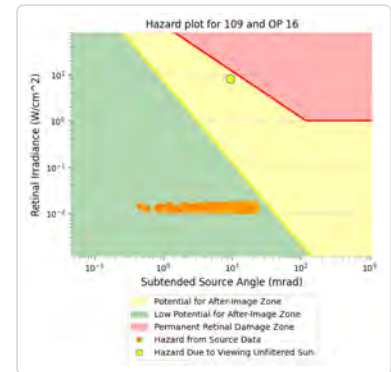
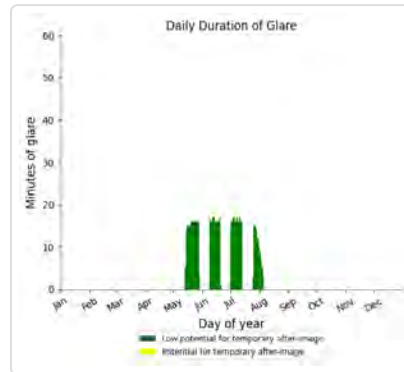
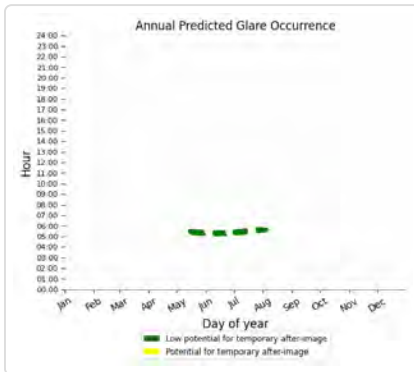
- 957 minutes of "green" glare with low potential to cause temporary after-image.
- 1,525 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 16

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

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



109: OP 17

No glare found

109: OP 18

No glare found

109: OP 19

No glare found

109: OP 20

No glare found

109: OP 21

No glare found

109: OP 22

No glare found

109: OP 23

No glare found

109: OP 24

No glare found

109: OP 25

No glare found

109: OP 26

No glare found

109: OP 27

No glare found

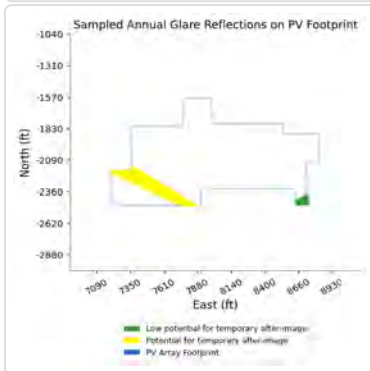
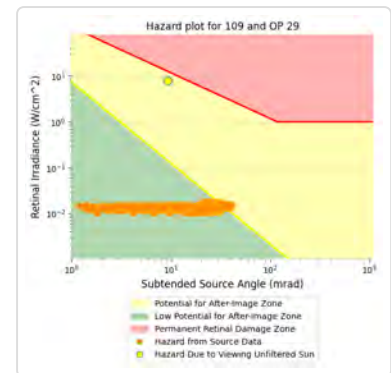
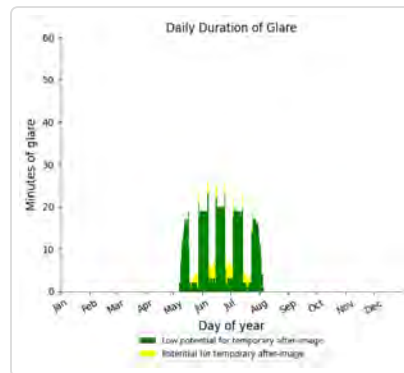
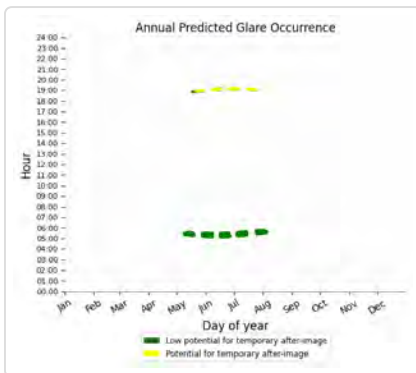
109: OP 28

No glare found

109: OP 29

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

- 1,013 minutes of "green" glare with low potential to cause temporary after-image.
- 107 minutes of "yellow" glare with potential to cause temporary after-image.



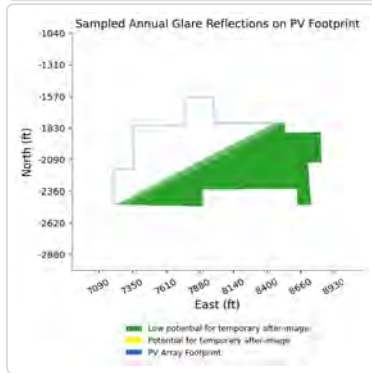
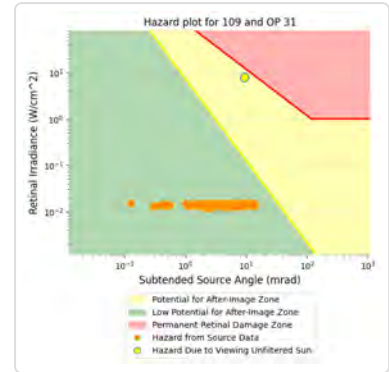
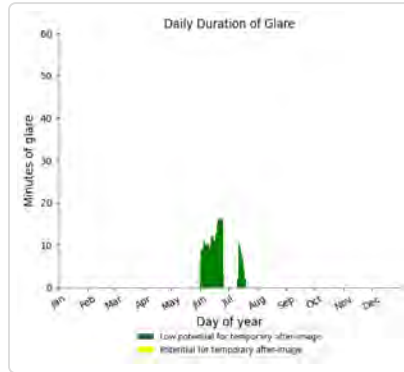
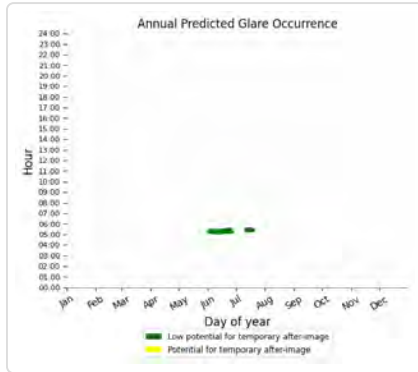
109: OP 30

No glare found

109: OP 31

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

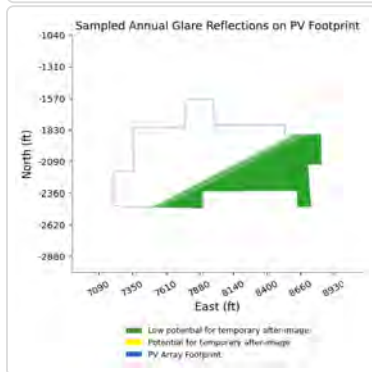
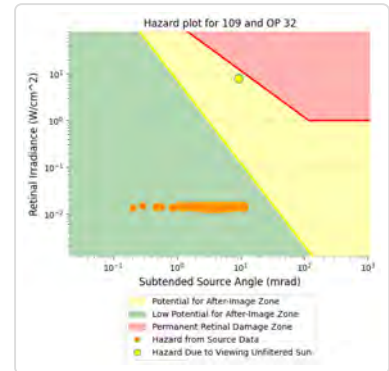
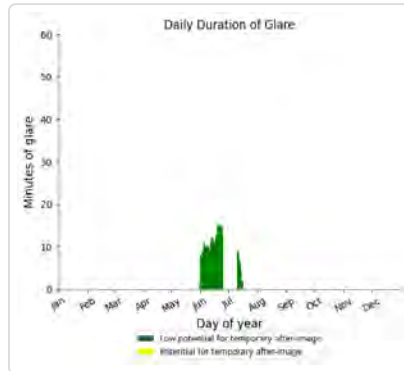
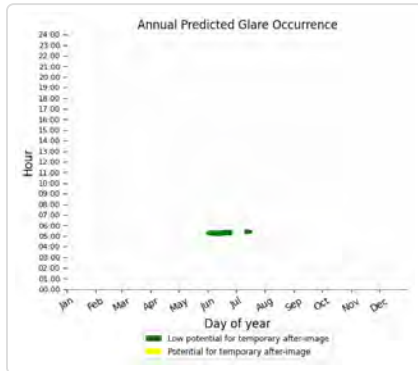
- 357 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 32

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

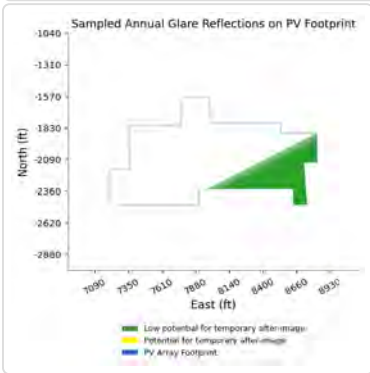
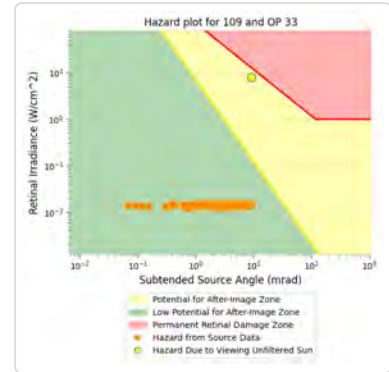
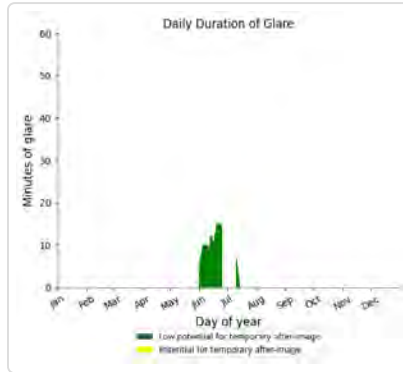
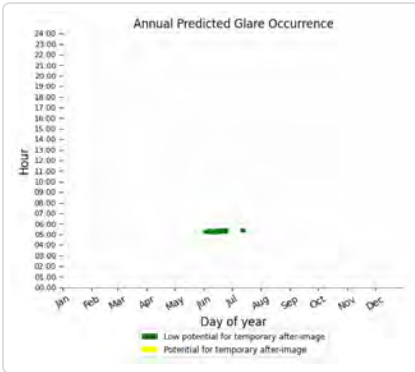
- 328 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 33

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

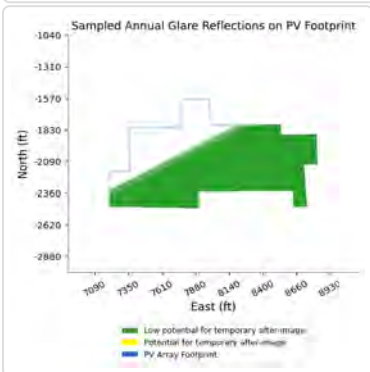
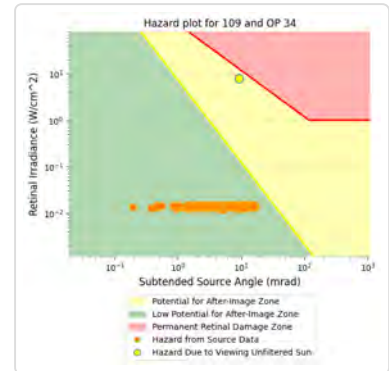
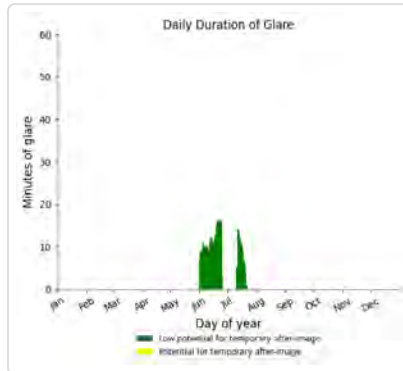
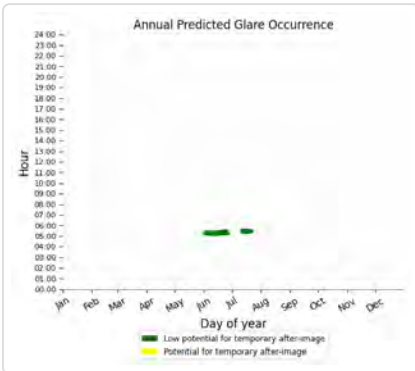
- 301 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 34

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

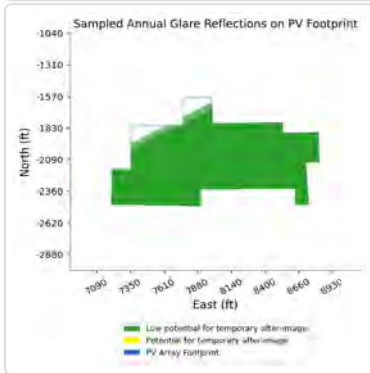
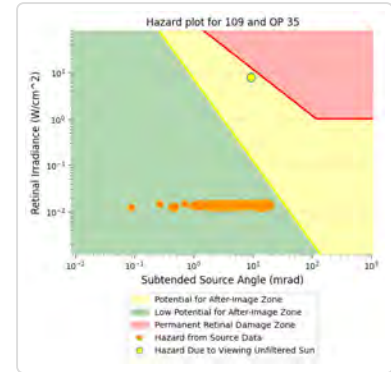
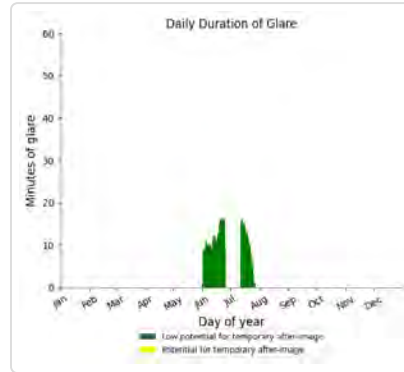
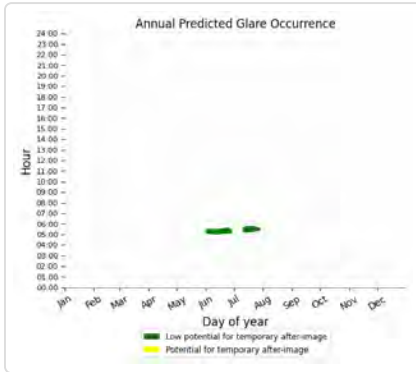
- 406 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



109: OP 35

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

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



109: OP 36

No glare found

109: OP 37

No glare found

109: OP 38

No glare found

109: OP 39

No glare found

109: OP 40

No glare found

109: Ceredo Road

No glare found

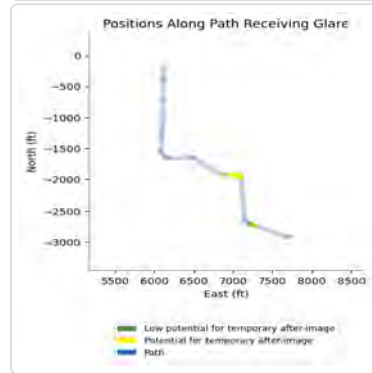
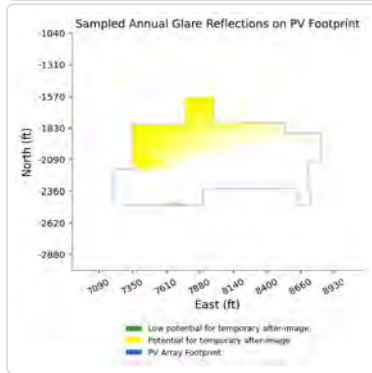
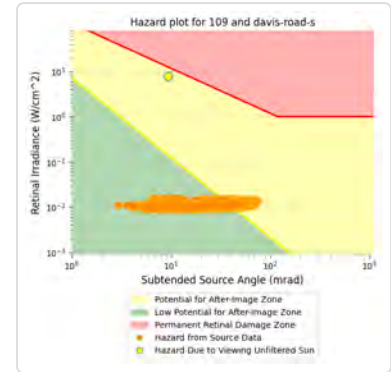
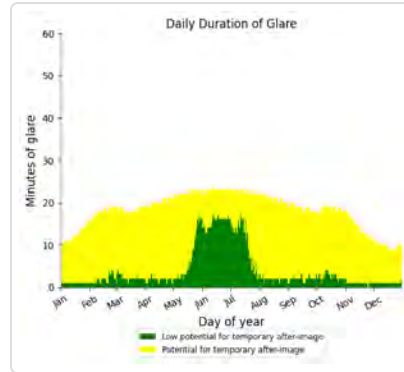
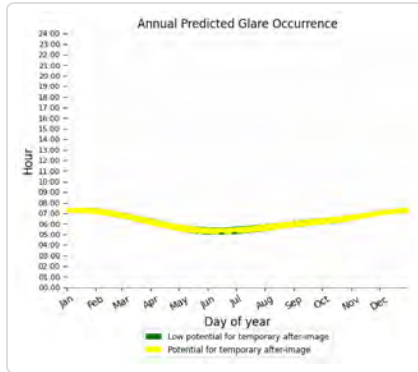
109: Davis Road north segment

No glare found

109: Davis Road south segment

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

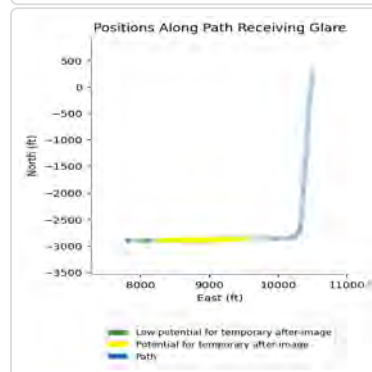
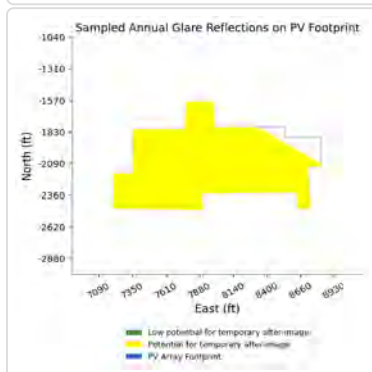
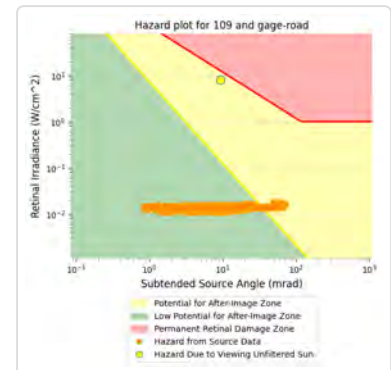
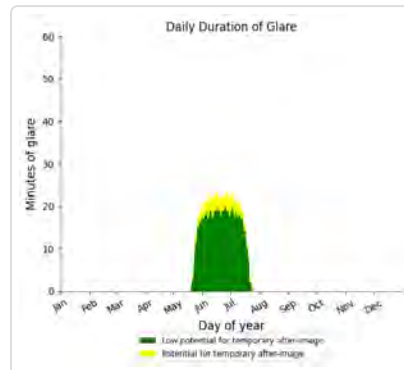
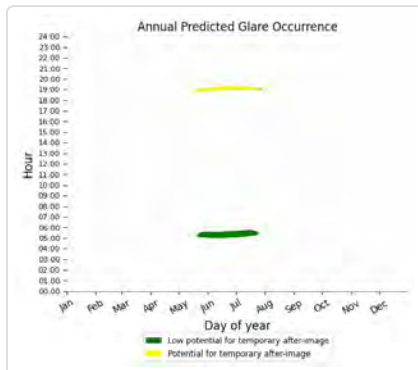
- 1,470 minutes of "green" glare with low potential to cause temporary after-image.
- 5,188 minutes of "yellow" glare with potential to cause temporary after-image.



109: Gage Road

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

- 1,018 minutes of "green" glare with low potential to cause temporary after-image.
- 182 minutes of "yellow" glare with potential to cause temporary after-image.



109: Hinkleville Road

No glare found

109: Randy Williams Road

No glare found

110 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	415	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	272	0
OP: OP 11	277	0
OP: OP 12	266	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0

OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	1382	0
Route: Davis Road north segment	1016	0
Route: Davis Road south segment	46	0
Route: Gage Road	0	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

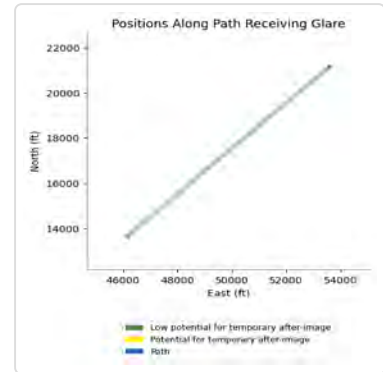
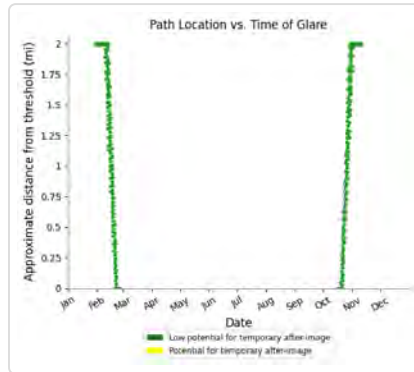
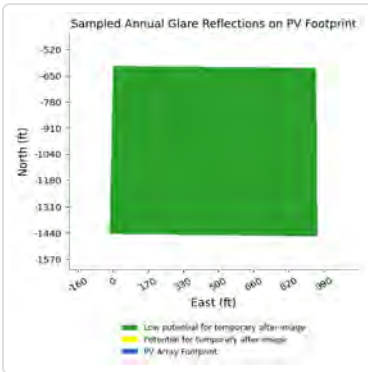
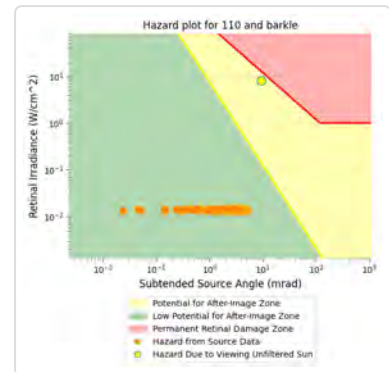
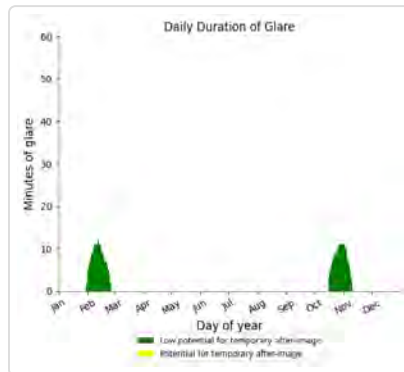
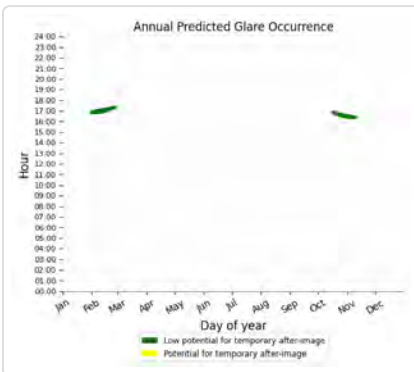
110: Barkley Regional Airport Runway 14

No glare found

110: Barkley Regional Airport Runway 23

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

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



110: Barkley Regional Airport Runway 32

No glare found

110: Barkley Regional Airport Runway 5

No glare found

110: 1-ATCT

No glare found

110: OP 2

No glare found

110: OP 3

No glare found

110: OP 4

No glare found

110: OP 5

No glare found

110: OP 6

No glare found

110: OP 7

No glare found

110: OP 8

No glare found

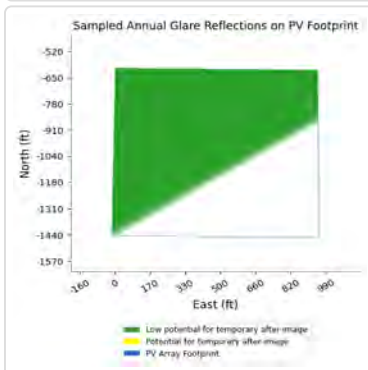
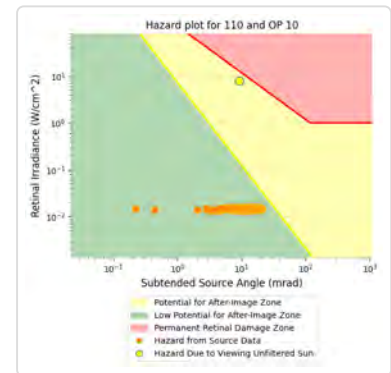
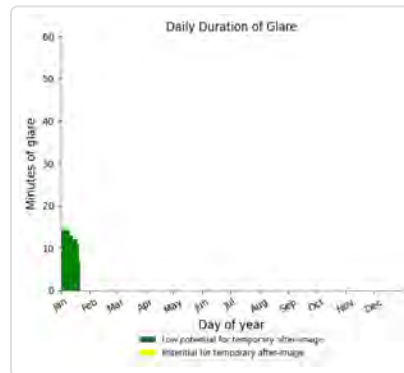
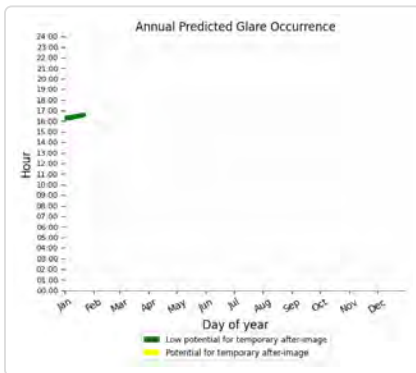
110: OP 9

No glare found

110: OP 10

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

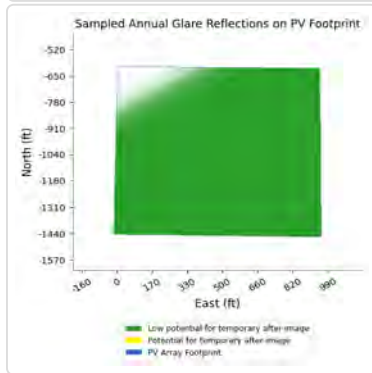
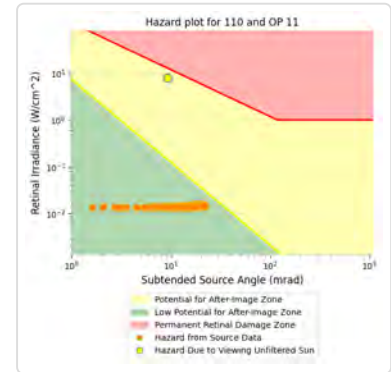
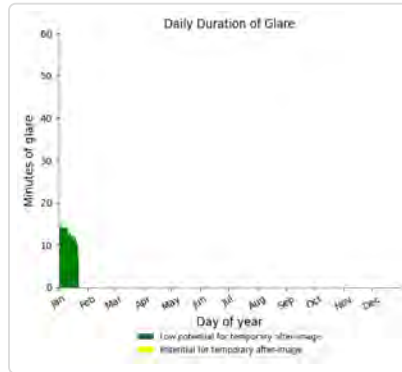
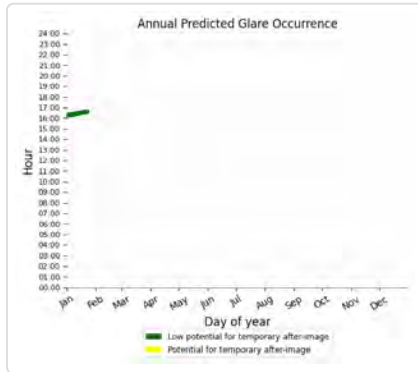
- 272 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



110: OP 11

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

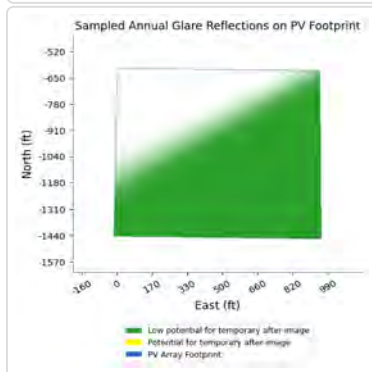
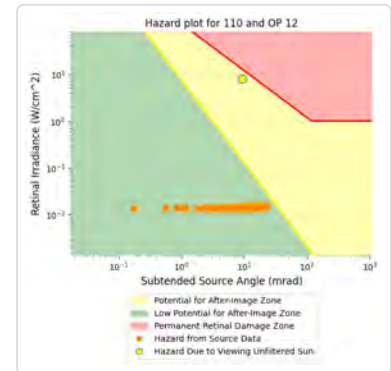
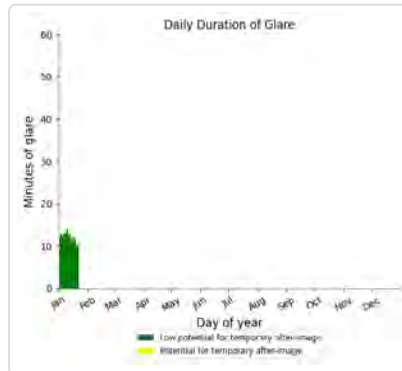
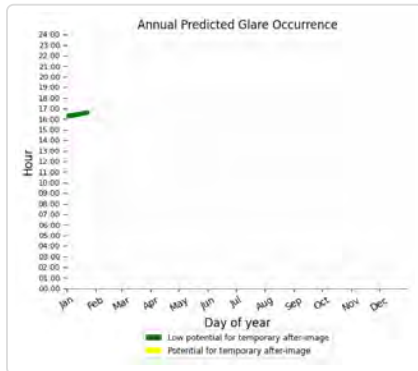
- 277 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



110: OP 12

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

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



110: OP 13

No glare found

110: OP 14

No glare found

110: OP 15

No glare found

110: OP 16

No glare found

110: OP 17

No glare found

110: OP 18

No glare found

110: OP 19

No glare found

110: OP 20

No glare found

110: OP 21

No glare found

110: OP 22

No glare found

110: OP 23

No glare found

110: OP 24

No glare found

110: OP 25

No glare found

110: OP 26

No glare found

110: OP 27

No glare found

110: OP 28

No glare found

110: OP 29

No glare found

110: OP 30

No glare found

110: OP 31

No glare found

110: OP 32

No glare found

110: OP 33

No glare found

110: OP 34

No glare found

110: OP 35

No glare found

110: OP 36

No glare found

110: OP 37

No glare found

110: OP 38

No glare found

110: OP 39

No glare found

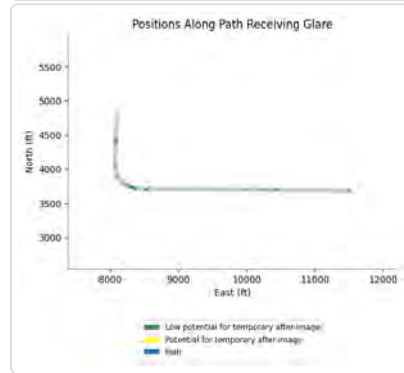
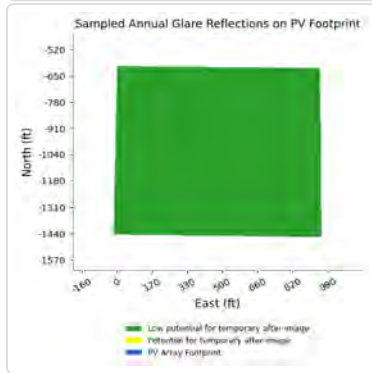
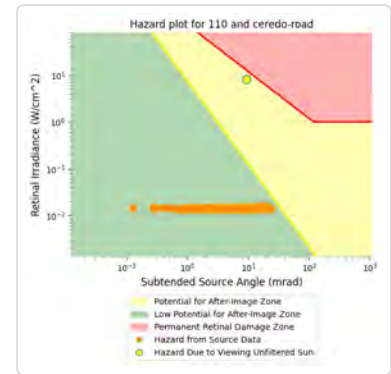
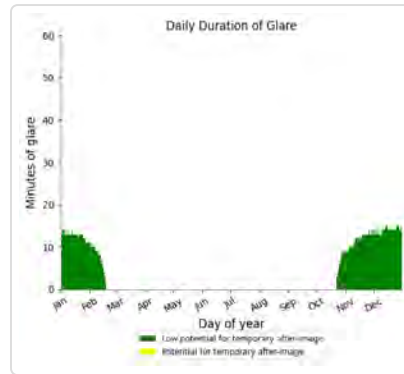
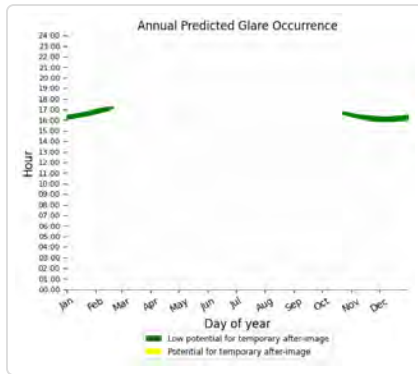
110: OP 40

No glare found

110: Ceredo Road

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

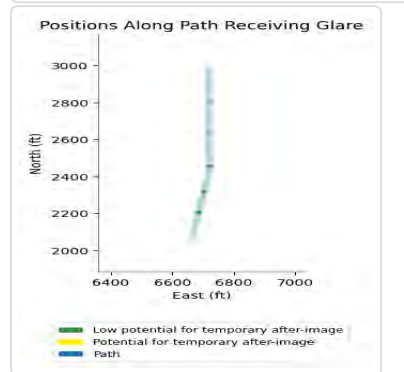
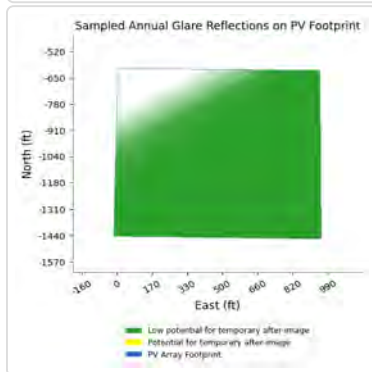
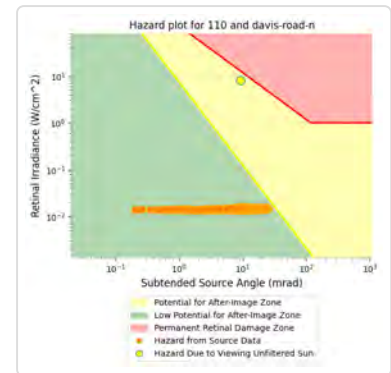
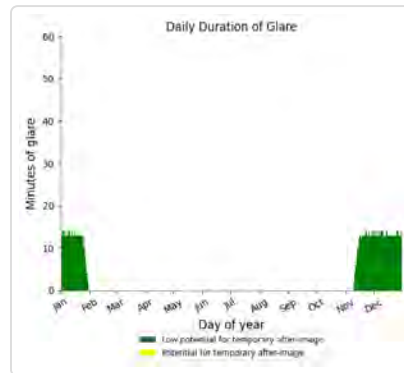
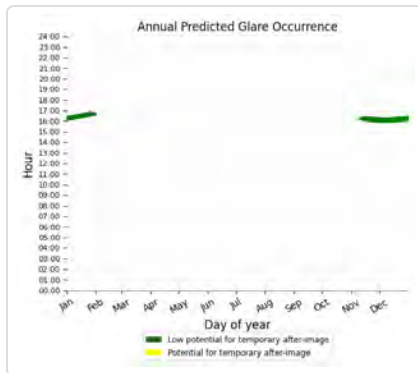
- 1,382 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



110: Davis Road north segment

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

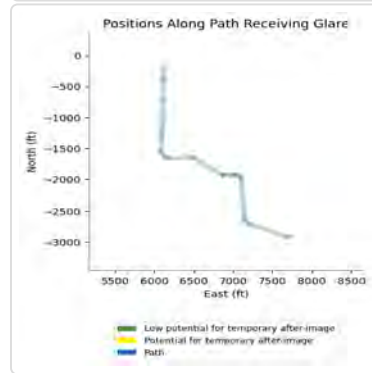
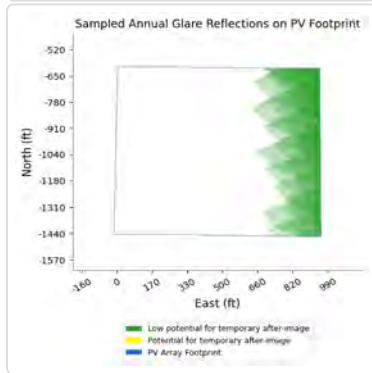
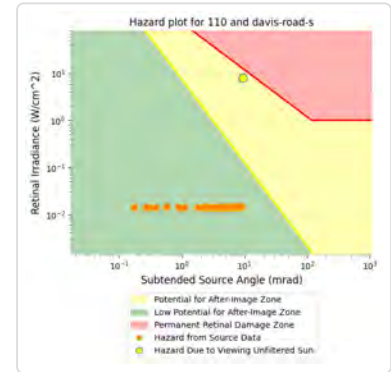
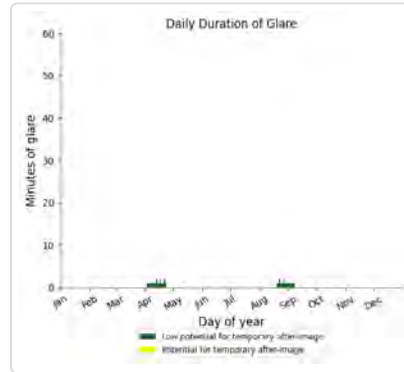
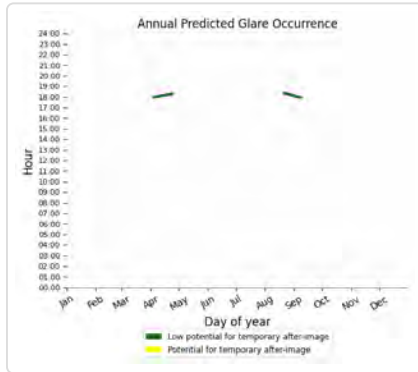
- 1,016 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



110: Davis Road south segment

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

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



110: Gage Road

No glare found

110: Hinkleville Road

No glare found

110: Randy Williams Road

No glare found

111 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	400	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	85	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0

OP: OP 9	0	0
OP: OP 10	21	0
OP: OP 11	162	0
OP: OP 12	164	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	38	0
OP: OP 22	62	0
OP: OP 23	89	0
OP: OP 24	132	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
Route: Ceredo Road	762	0
Route: Davis Road north segment	475	0
Route: Davis Road south segment	353	0
Route: Gage Road	230	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

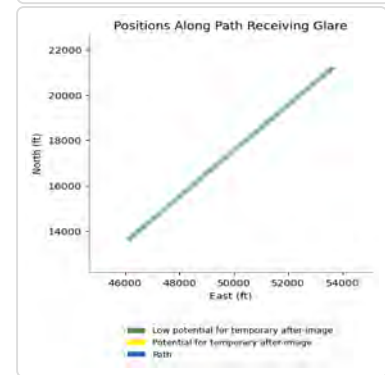
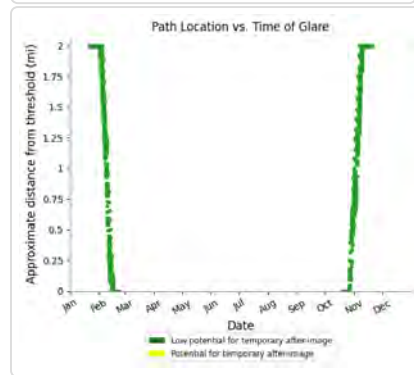
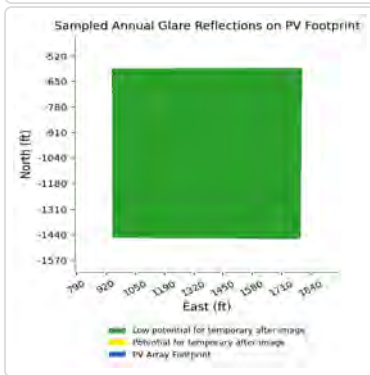
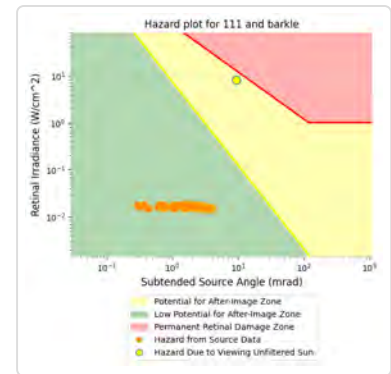
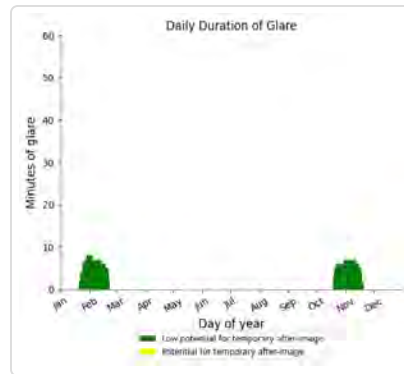
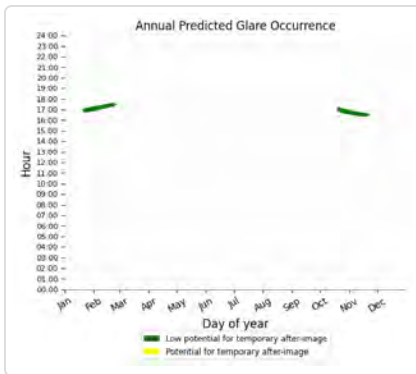
111: Barkley Regional Airport Runway 14

No glare found

111: Barkley Regional Airport Runway 23

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

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



111: Barkley Regional Airport Runway 32

No glare found

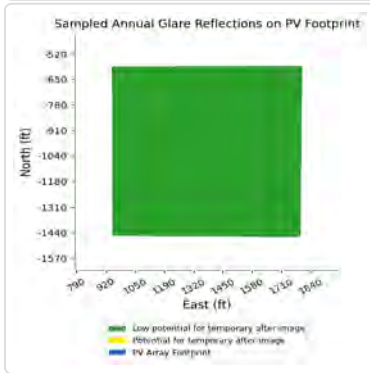
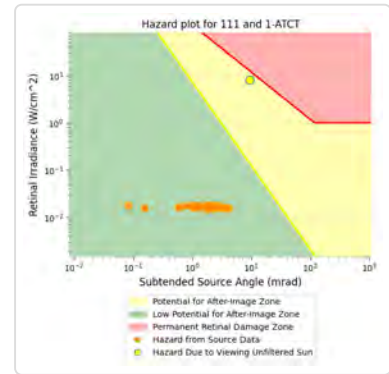
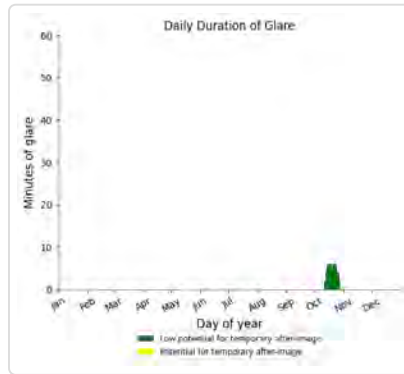
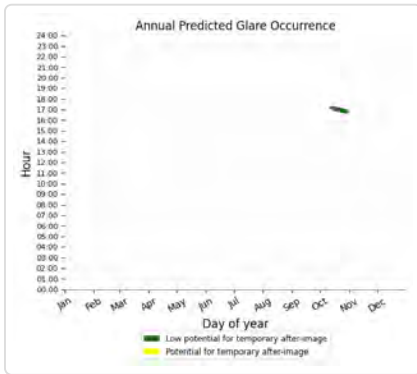
111: Barkley Regional Airport Runway 5

No glare found

111: 1-ATCT

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

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



111: OP 2

No glare found

111: OP 3

No glare found

111: OP 4

No glare found

111: OP 5

No glare found

111: OP 6

No glare found

111: OP 7

No glare found

111: OP 8

No glare found

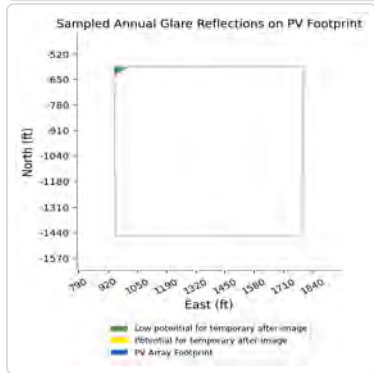
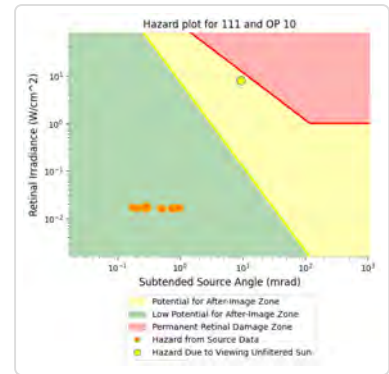
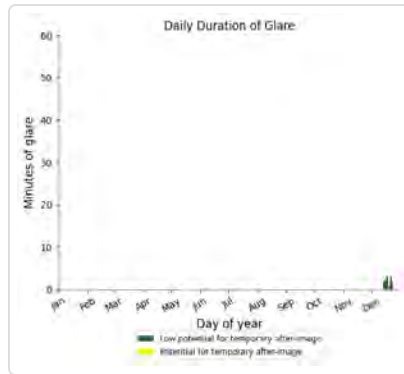
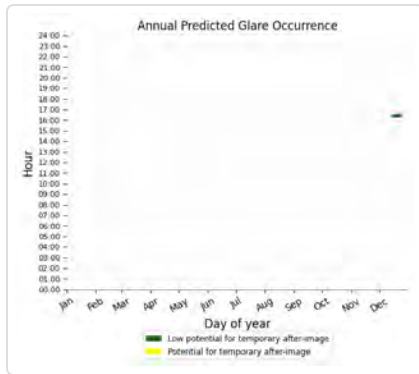
111: OP 9

No glare found

111: OP 10

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

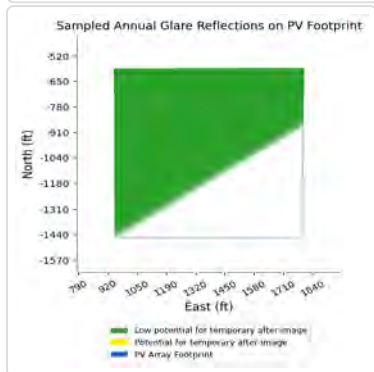
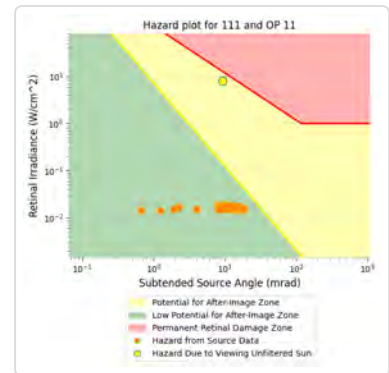
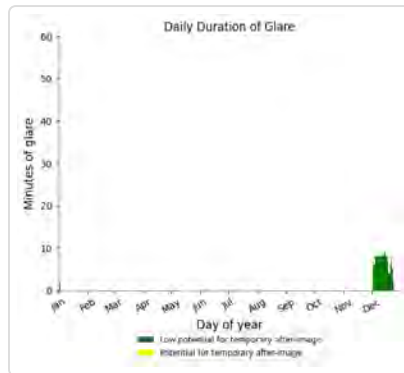
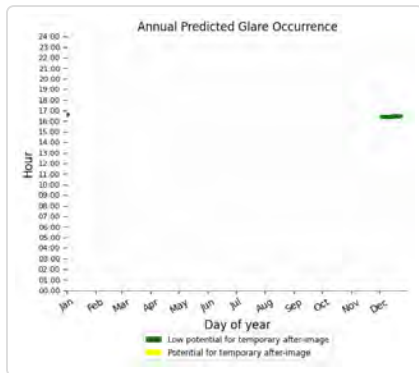
- 21 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: OP 11

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

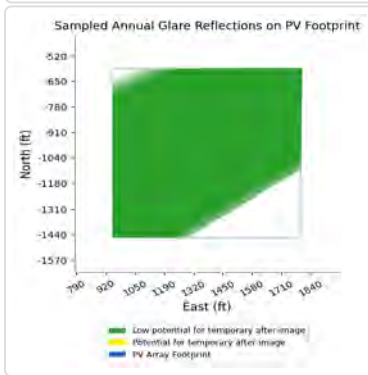
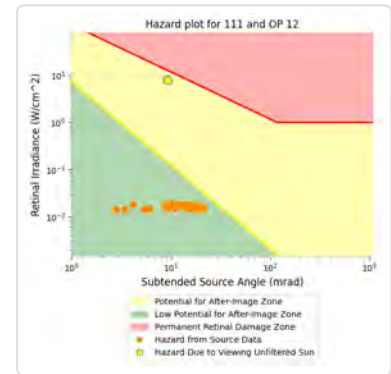
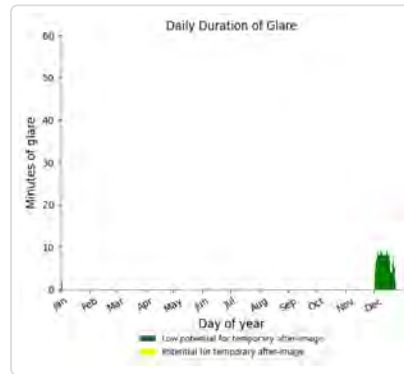
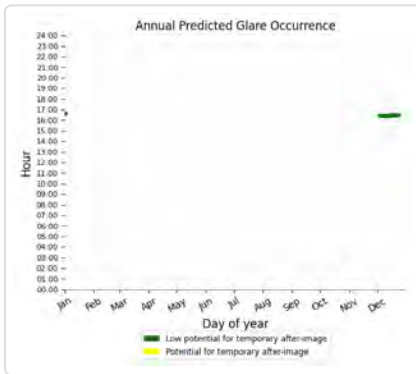
- 162 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: OP 12

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

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



111: OP 13

No glare found

111: OP 14

No glare found

111: OP 15

No glare found

111: OP 16

No glare found

111: OP 17

No glare found

111: OP 18

No glare found

111: OP 19

No glare found

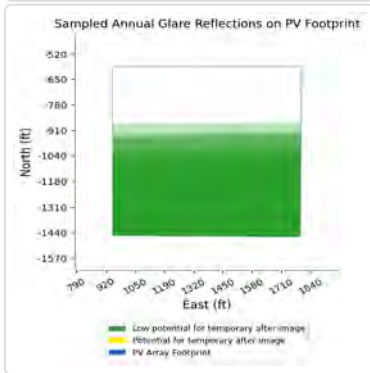
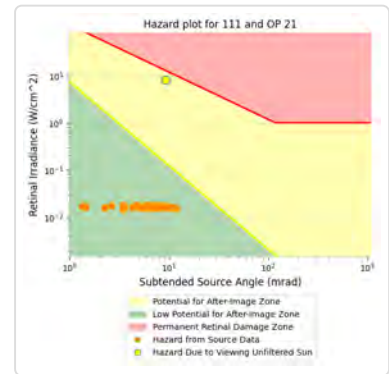
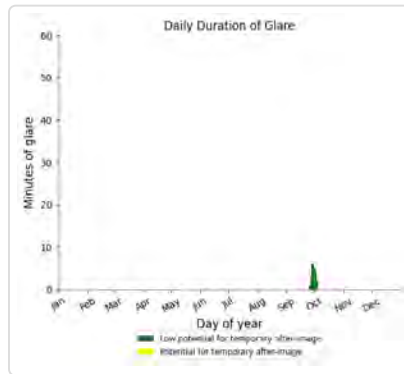
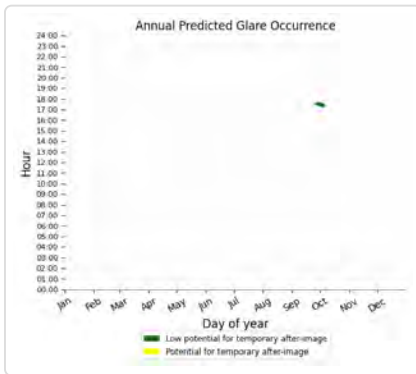
111: OP 20

No glare found

111: OP 21

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

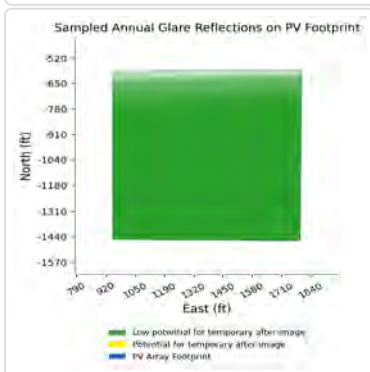
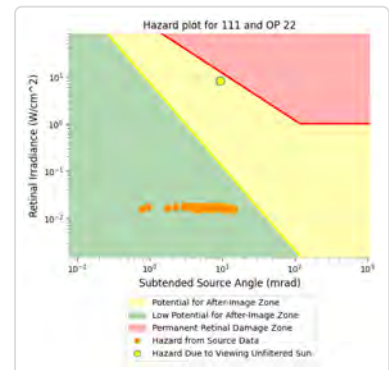
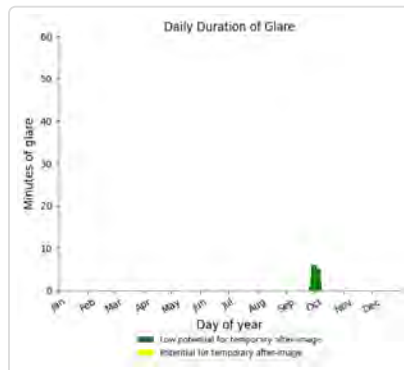
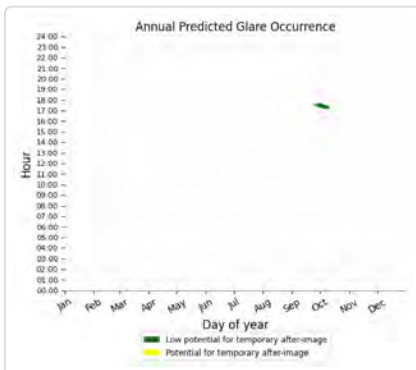
- 38 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: OP 22

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

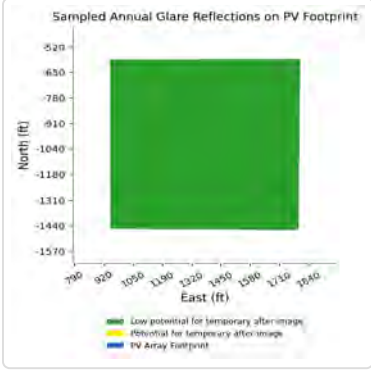
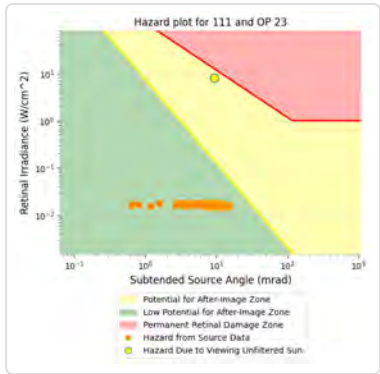
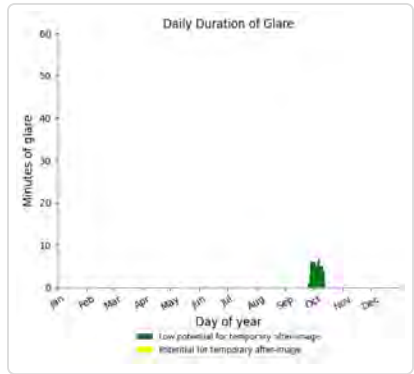
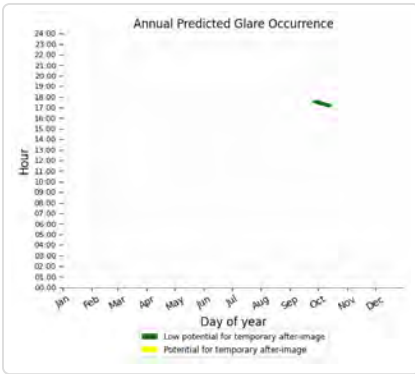
- 62 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: OP 23

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

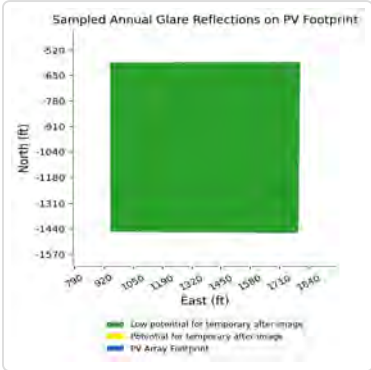
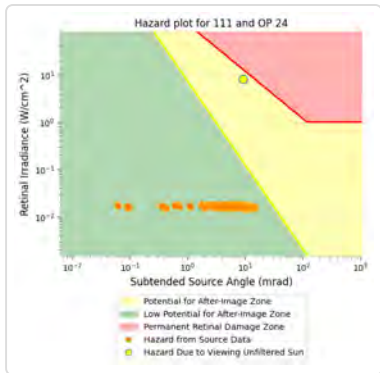
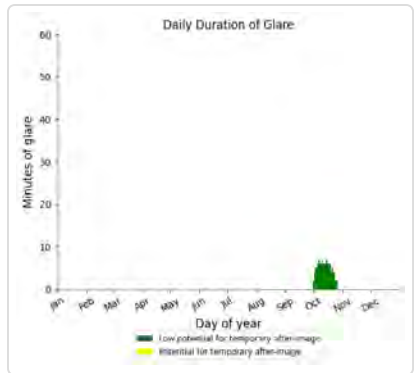
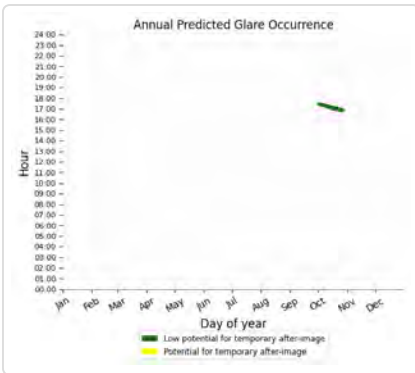
- 89 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: OP 24

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

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



111: OP 25

No glare found

111: OP 26

No glare found

111: OP 27

No glare found

111: OP 28

No glare found

111: OP 29

No glare found

111: OP 30

No glare found

111: OP 31

No glare found

111: OP 32

No glare found

111: OP 33

No glare found

111: OP 34

No glare found

111: OP 35

No glare found

111: OP 36

No glare found

111: OP 37

No glare found

111: OP 38

No glare found

111: OP 39

No glare found

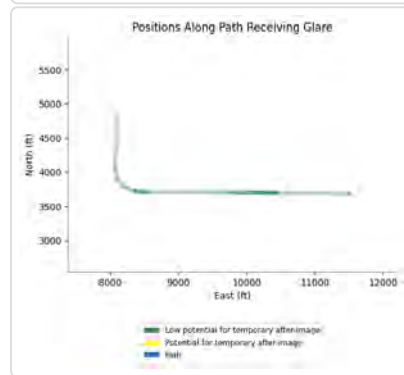
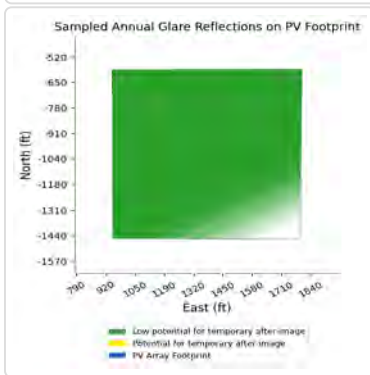
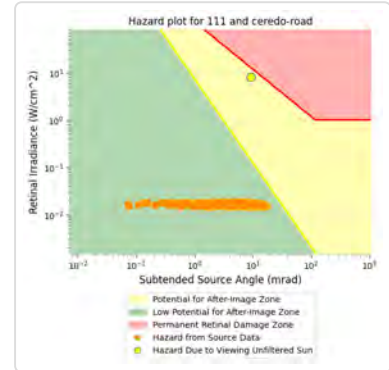
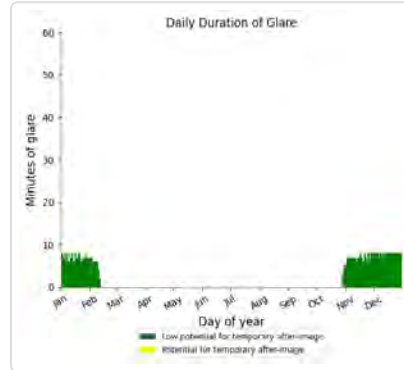
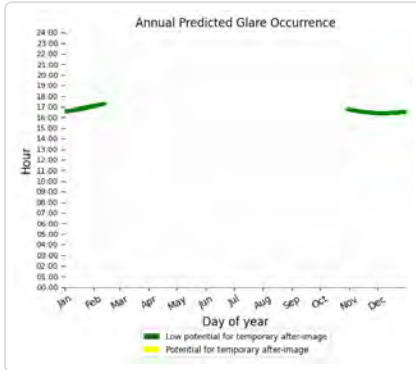
111: OP 40

No glare found

111: Ceredo Road

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

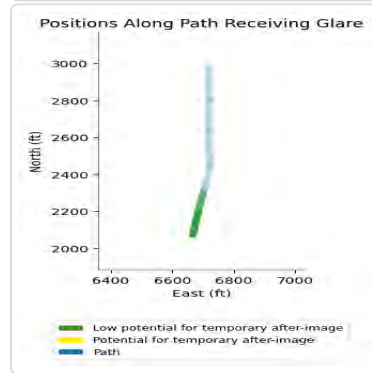
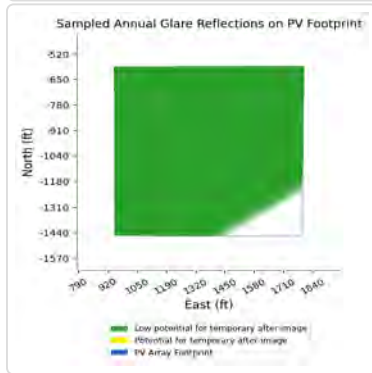
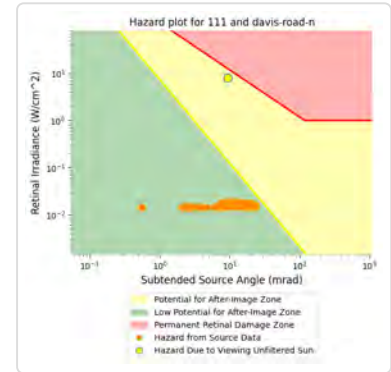
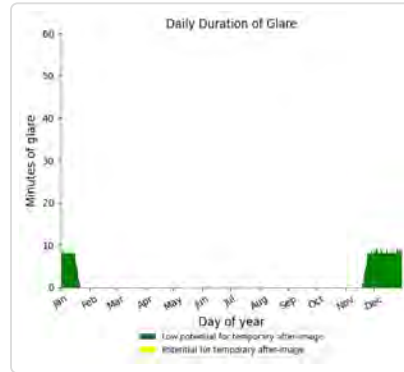
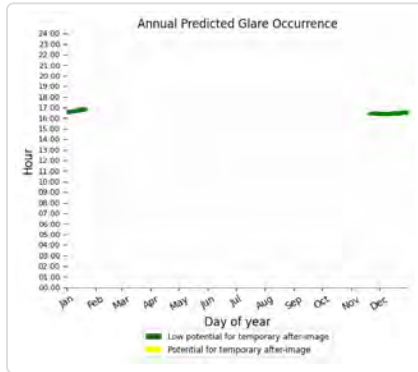
- 762 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: Davis Road north segment

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

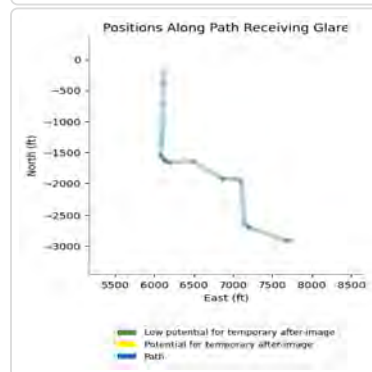
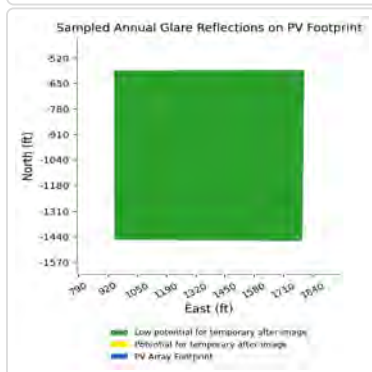
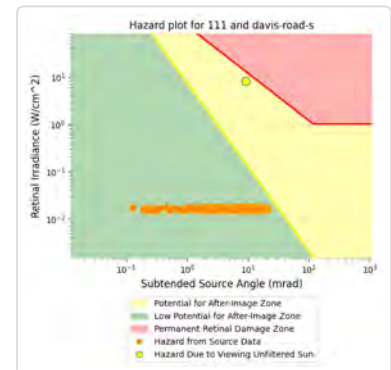
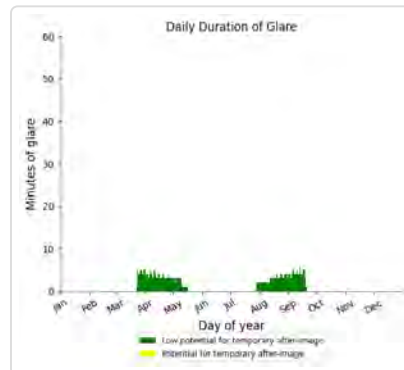
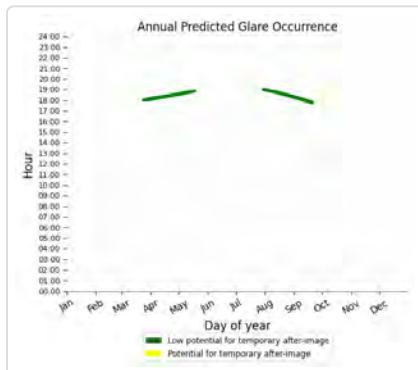
- 475 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: Davis Road south segment

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

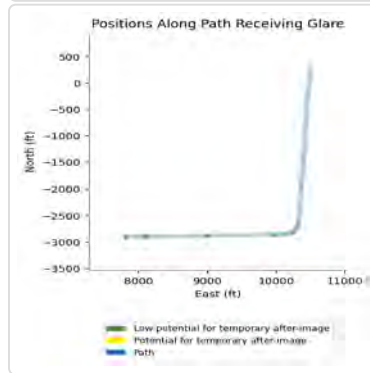
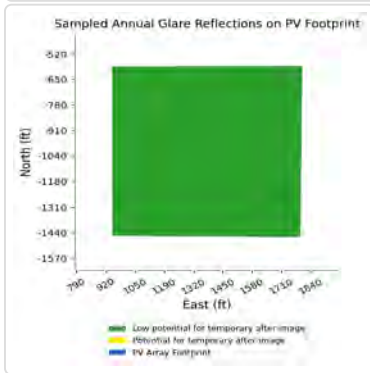
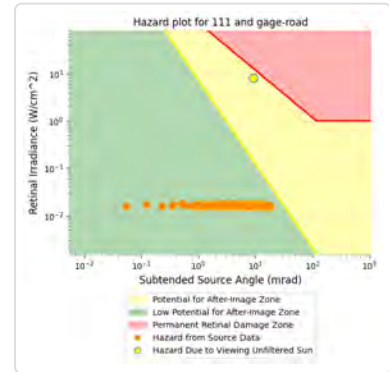
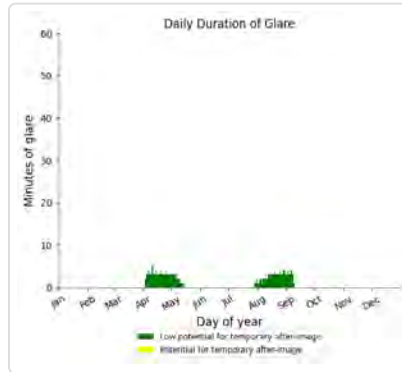
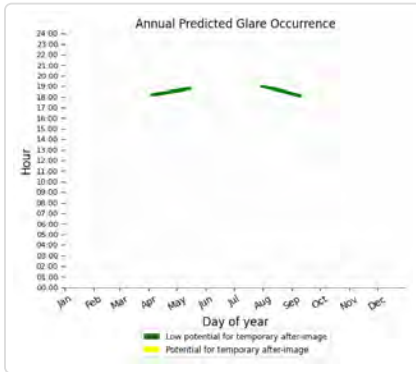
- 353 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



111: Gage Road

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

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



111: Hinkleville Road

No glare found

111: Randy Williams Road

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

113 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	232	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0

OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	180	0
Route: Davis Road north segment	73	0
Route: Davis Road south segment	666	0
Route: Gage Road	441	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

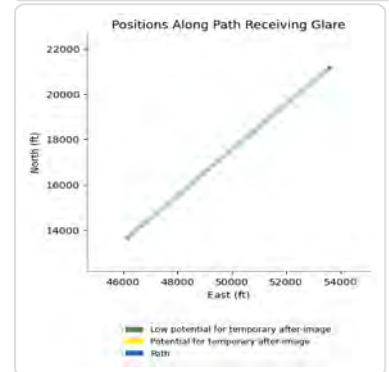
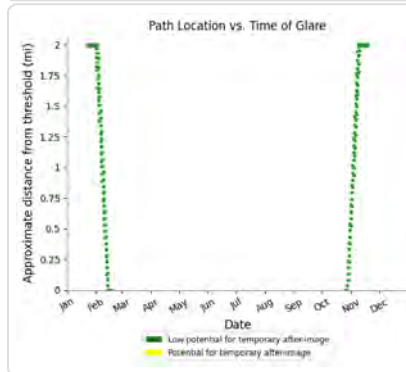
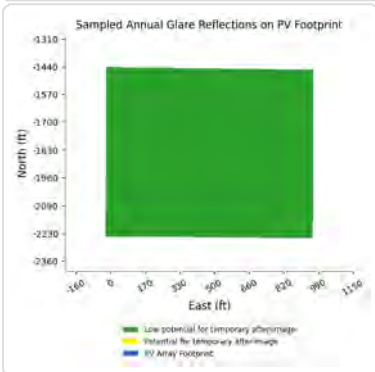
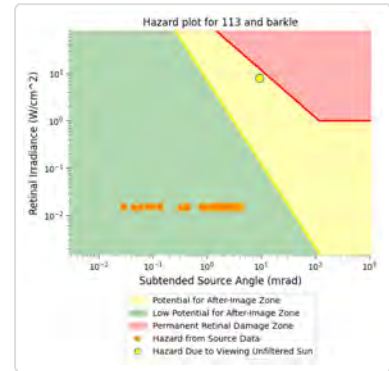
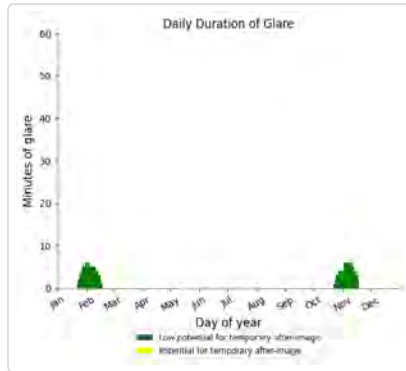
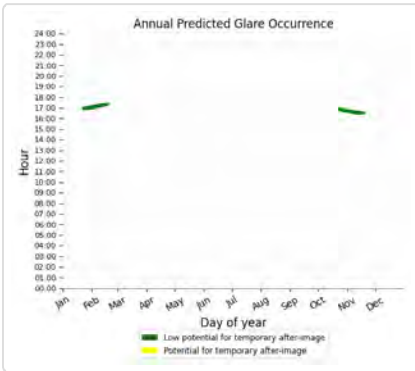
113: Barkley Regional Airport Runway 14

No glare found

113: Barkley Regional Airport Runway 23

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

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



113: Barkley Regional Airport Runway 32

No glare found

113: Barkley Regional Airport Runway 5

No glare found

113: 1-ATCT

No glare found

113: OP 2

No glare found

113: OP 3

No glare found

113: OP 4

No glare found

113: OP 5

No glare found

113: OP 6

No glare found

113: OP 7

No glare found

113: OP 8

No glare found

113: OP 9

No glare found

113: OP 10

No glare found

113: OP 11

No glare found

113: OP 12

No glare found

113: OP 13

No glare found

113: OP 14

No glare found

113: OP 15

No glare found

113: OP 16

No glare found

113: OP 17

No glare found

113: OP 18

No glare found

113: OP 19

No glare found

113: OP 20

No glare found

113: OP 21

No glare found

113: OP 22

No glare found

113: OP 23

No glare found

113: OP 24

No glare found

113: OP 25

No glare found

113: OP 26

No glare found

113: OP 27

No glare found

113: OP 28

No glare found

113: OP 29

No glare found

113: OP 30

No glare found

113: OP 31

No glare found

113: OP 32

No glare found

113: OP 33

No glare found

113: OP 34

No glare found

113: OP 35

No glare found

113: OP 36

No glare found

113: OP 37

No glare found

113: OP 38

No glare found

113: OP 39

No glare found

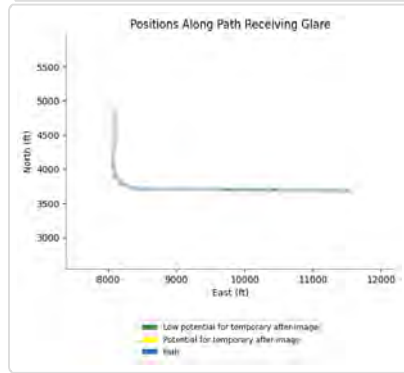
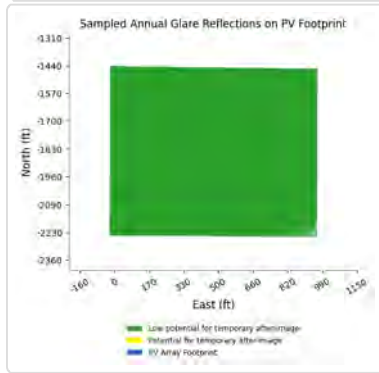
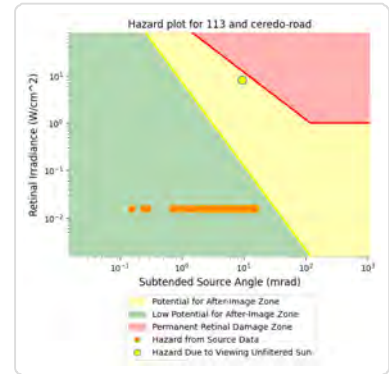
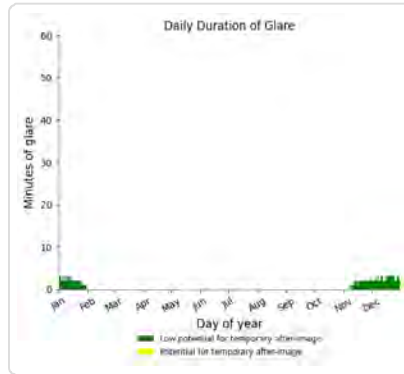
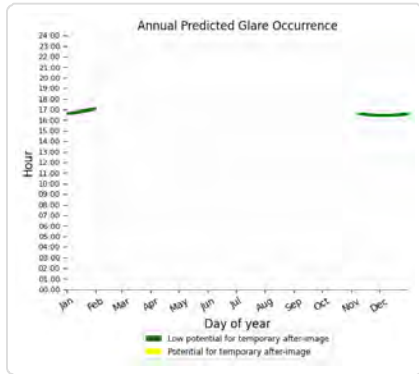
113: OP 40

No glare found

113: Ceredo Road

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

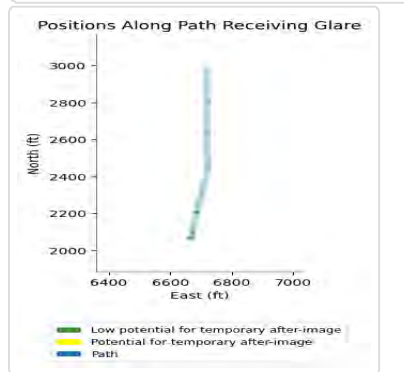
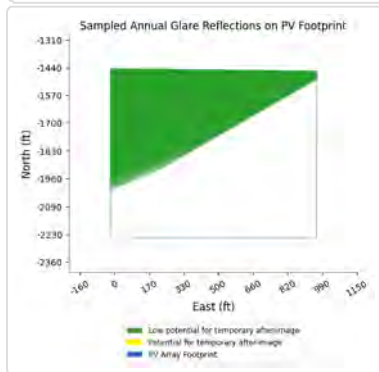
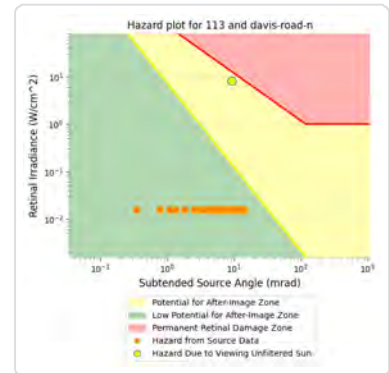
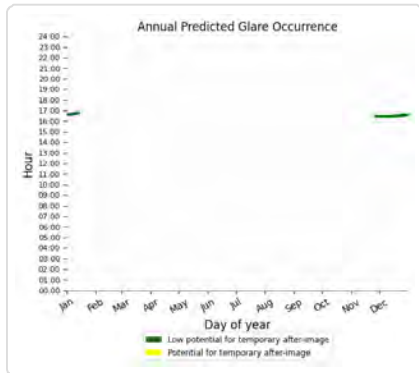
- 180 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



113: Davis Road north segment

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

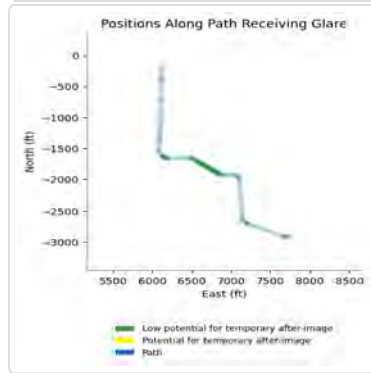
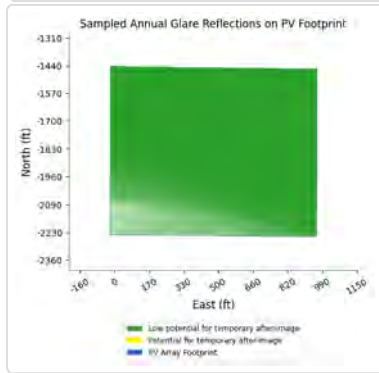
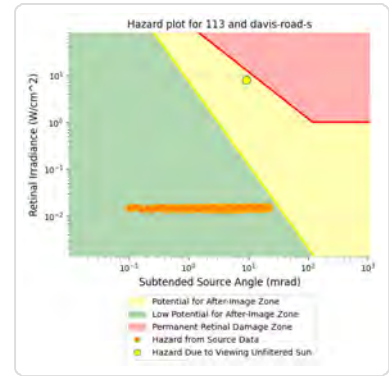
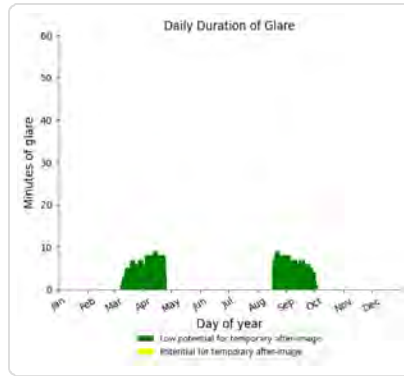
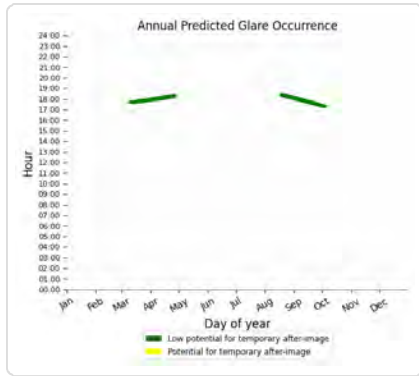
- 73 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



113: Davis Road south segment

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

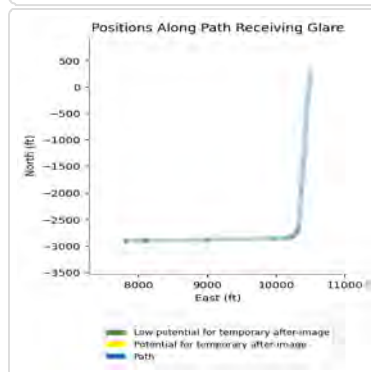
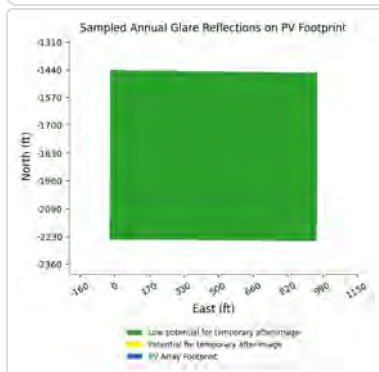
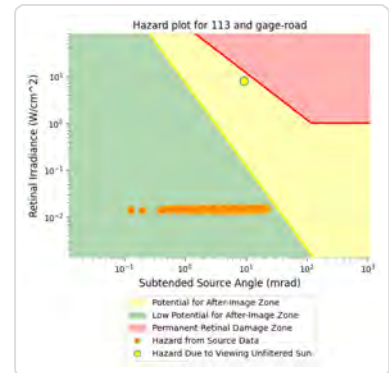
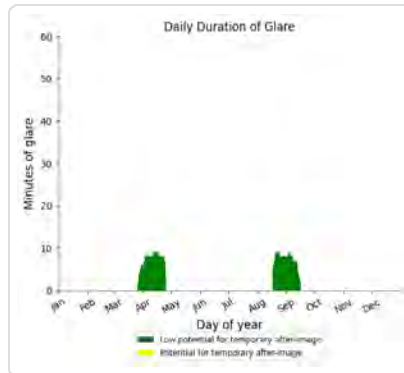
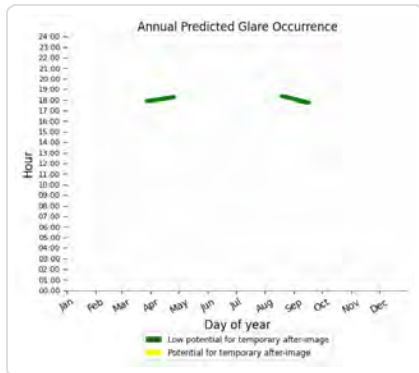
- 666 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



113: Gage Road

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

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



113: Hinkleville Road

No glare found

113: Randy Williams Road

No glare found

114 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	462	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0

OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	578	0
Route: Davis Road north segment	246	0
Route: Davis Road south segment	772	0
Route: Gage Road	460	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

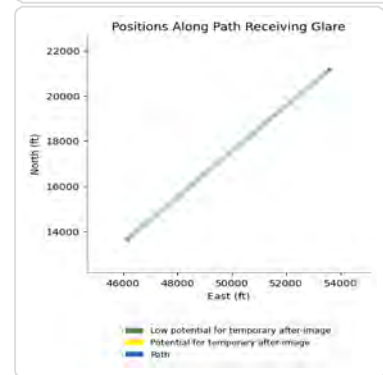
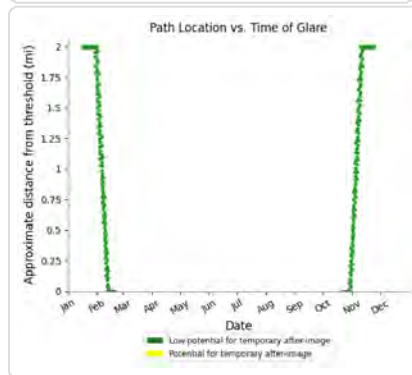
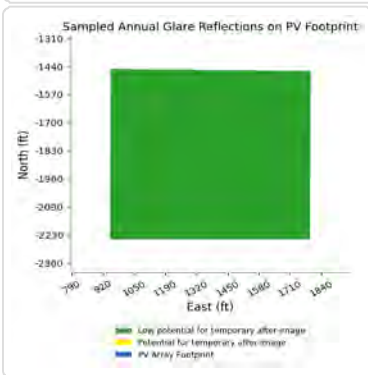
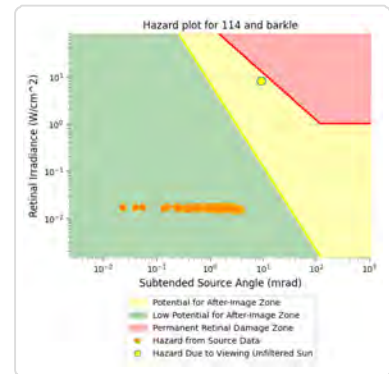
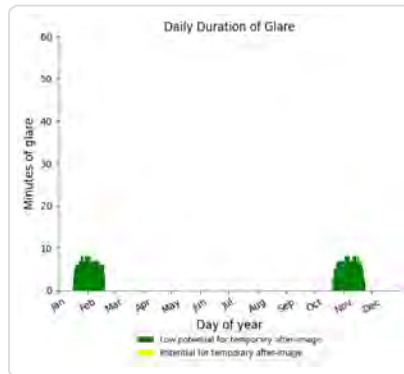
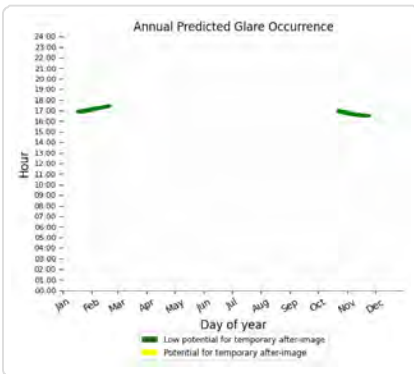
114: Barkley Regional Airport Runway 14

No glare found

114: Barkley Regional Airport Runway 23

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

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



114: Barkley Regional Airport Runway 32

No glare found

114: Barkley Regional Airport Runway 5

No glare found

114: 1-ATCT

No glare found

114: OP 2

No glare found

114: OP 3

No glare found

114: OP 4

No glare found

114: OP 5

No glare found

114: OP 6

No glare found

114: OP 7

No glare found

114: OP 8

No glare found

114: OP 9

No glare found

114: OP 10

No glare found

114: OP 11

No glare found

114: OP 12

No glare found

114: OP 13

No glare found

114: OP 14

No glare found

114: OP 15

No glare found

114: OP 16

No glare found

114: OP 17

No glare found

114: OP 18

No glare found

114: OP 19

No glare found

114: OP 20

No glare found

114: OP 21

No glare found

114: OP 22

No glare found

114: OP 23

No glare found

114: OP 24

No glare found

114: OP 25

No glare found

114: OP 26

No glare found

114: OP 27

No glare found

114: OP 28

No glare found

114: OP 29

No glare found

114: OP 30

No glare found

114: OP 31

No glare found

114: OP 32

No glare found

114: OP 33

No glare found

114: OP 34

No glare found

114: OP 35

No glare found

114: OP 36

No glare found

114: OP 37

No glare found

114: OP 38

No glare found

114: OP 39

No glare found

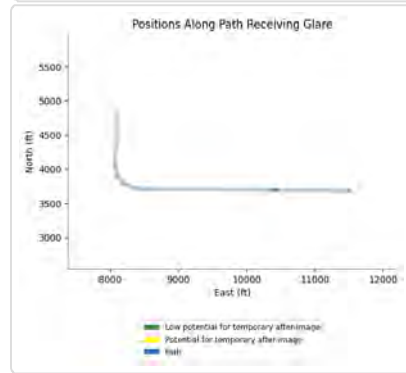
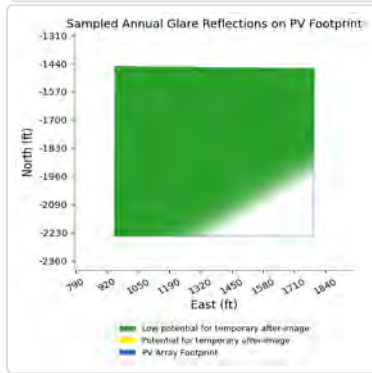
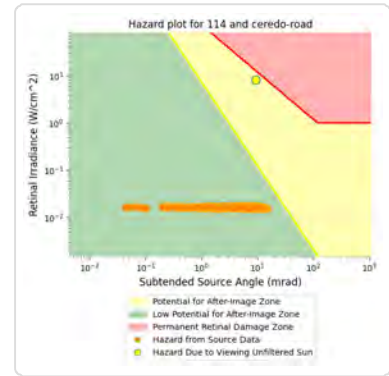
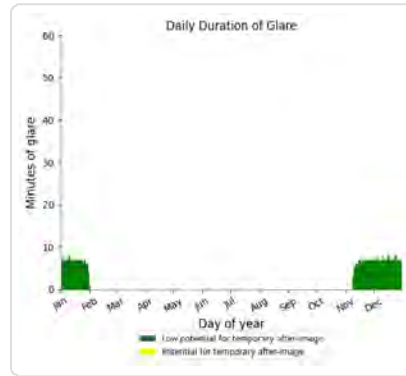
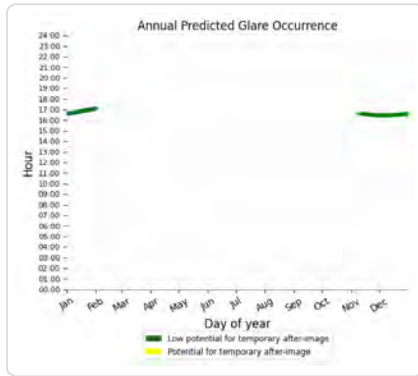
114: OP 40

No glare found

114: Ceredo Road

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

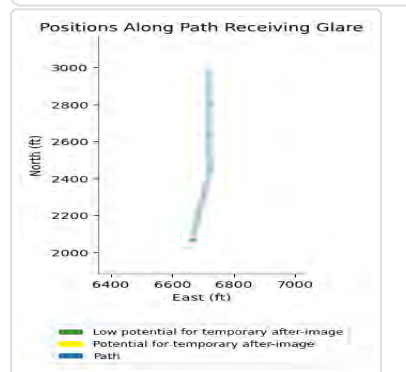
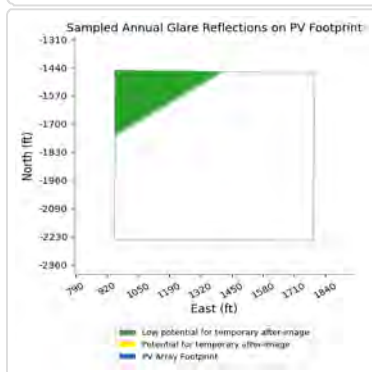
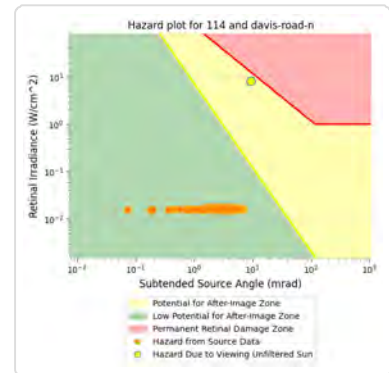
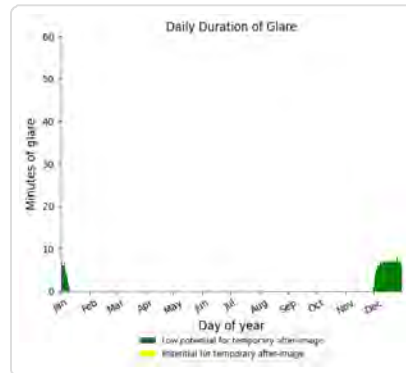
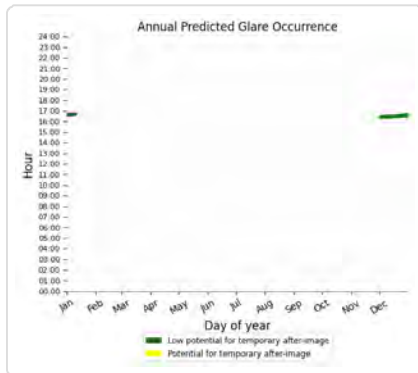
- 578 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



114: Davis Road north segment

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

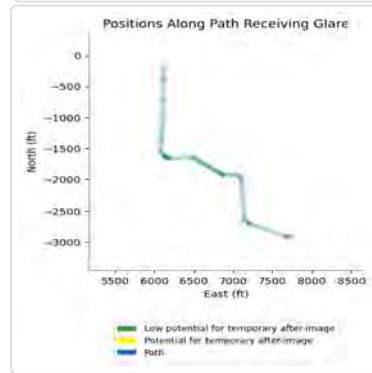
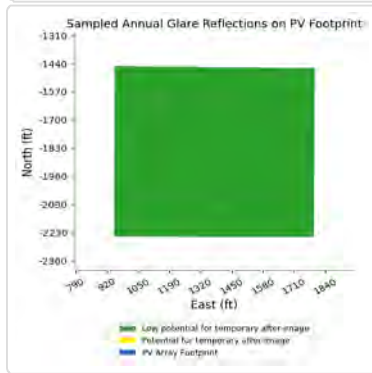
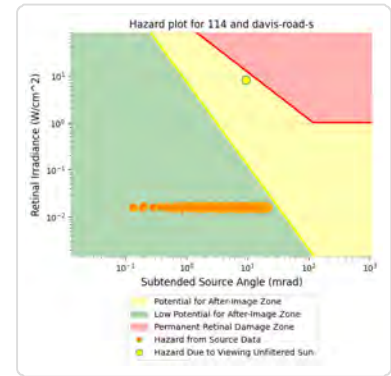
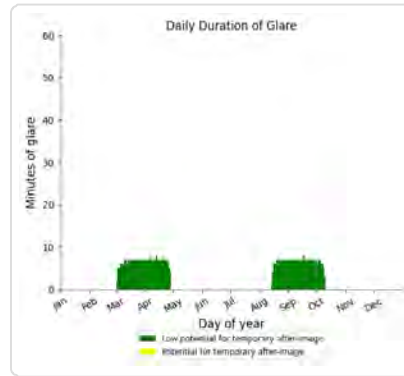
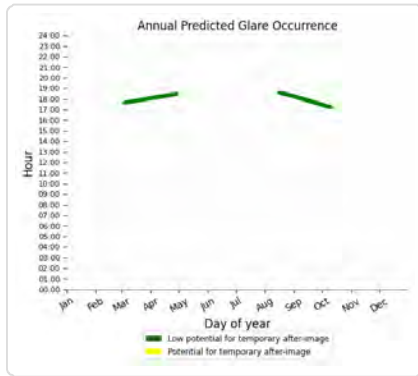
- 246 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



114: Davis Road south segment

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

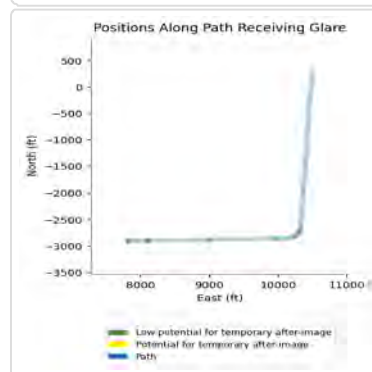
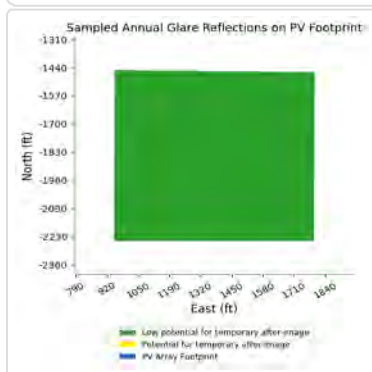
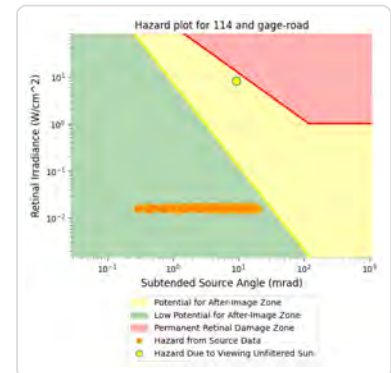
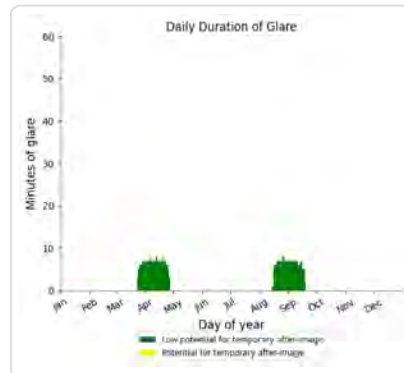
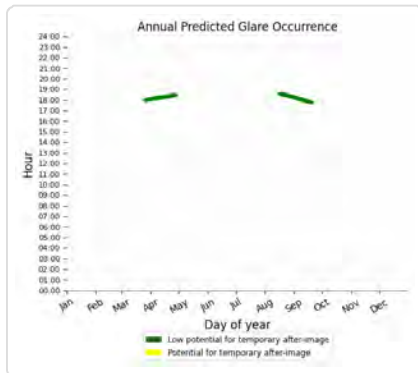
- 772 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



114: Gage Road

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

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



114: Hinkleville Road

No glare found

114: Randy Williams Road

No glare found

115 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	516	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	92	0
OP: OP 14	20	0
OP: OP 15	42	0
OP: OP 16	80	0
OP: OP 17	0	0
OP: OP 18	54	0
OP: OP 19	47	0
OP: OP 20	49	0
OP: OP 21	44	0
OP: OP 22	51	0
OP: OP 23	54	0
OP: OP 24	61	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	26	0
OP: OP 30	67	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
Route: Ceredo Road	625	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	1466	0
Route: Gage Road	791	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

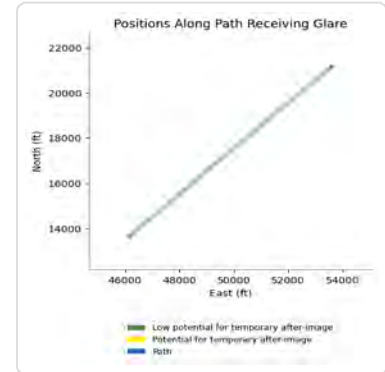
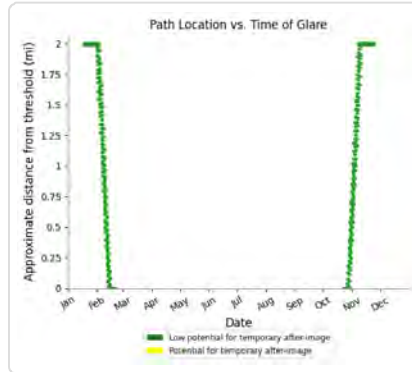
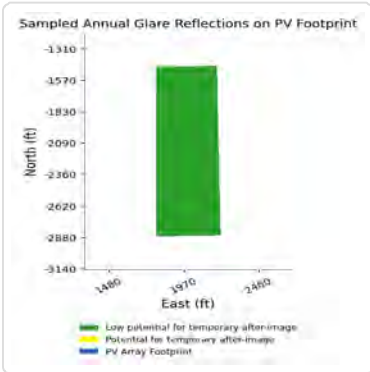
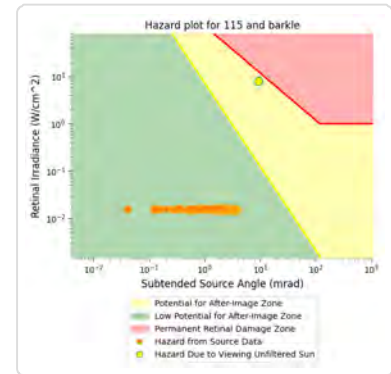
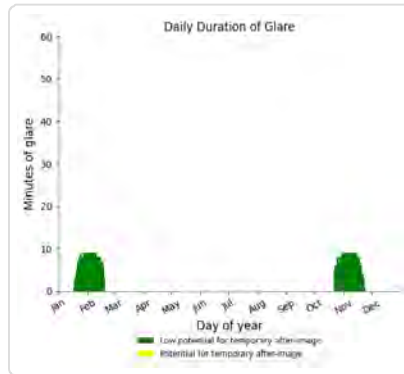
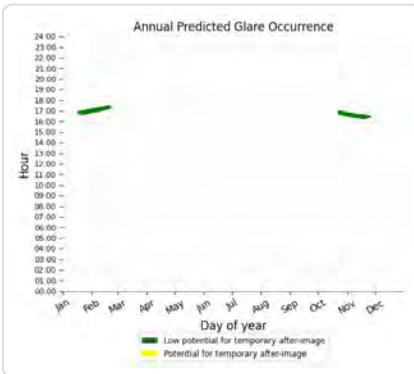
115: Barkley Regional Airport Runway 14

No glare found

115: Barkley Regional Airport Runway 23

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

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



115: Barkley Regional Airport Runway 32

No glare found

115: Barkley Regional Airport Runway 5

No glare found

115: 1-ATCT

No glare found

115: OP 2

No glare found

115: OP 3

No glare found

115: OP 4

No glare found

115: OP 5

No glare found

115: OP 6

No glare found

115: OP 7

No glare found

115: OP 8

No glare found

115: OP 9

No glare found

115: OP 10

No glare found

115: OP 11

No glare found

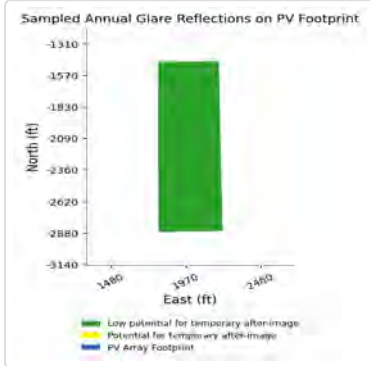
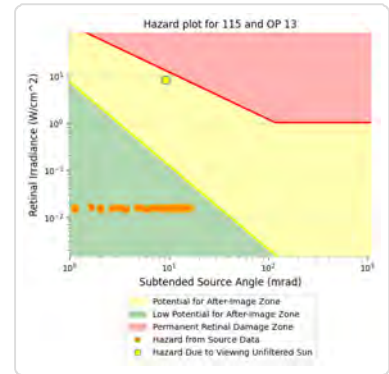
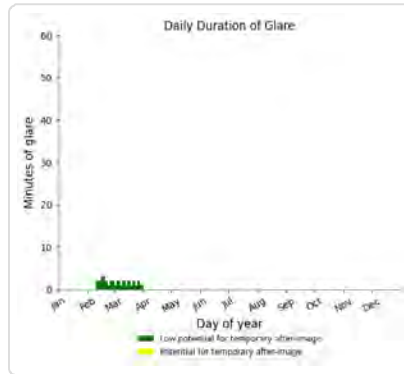
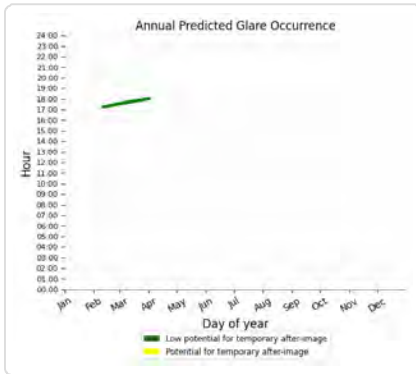
115: OP 12

No glare found

115: OP 13

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

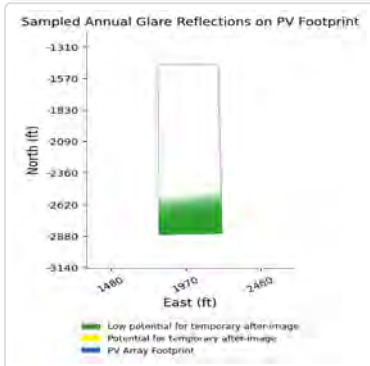
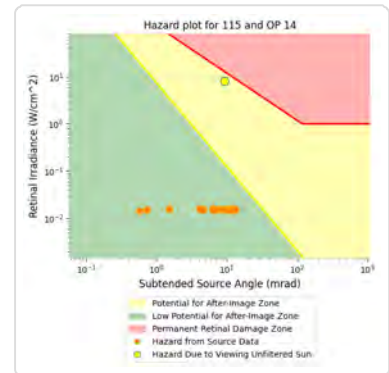
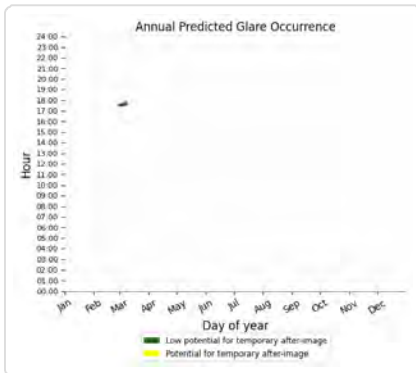
- 92 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 14

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

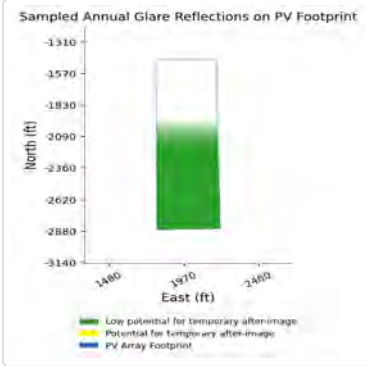
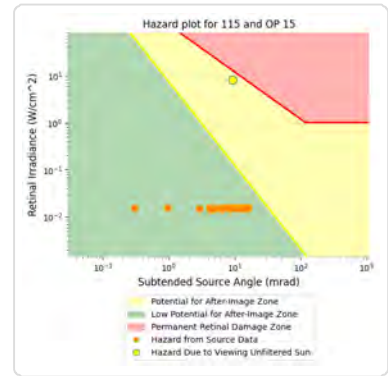
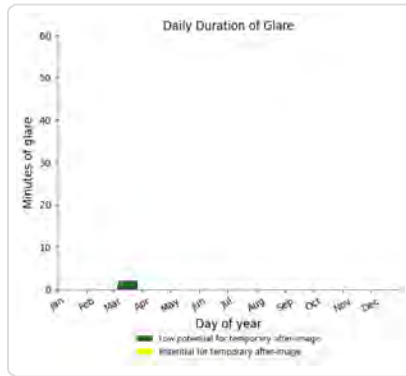
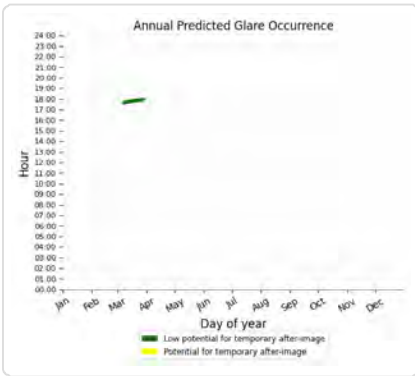
- 20 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 15

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

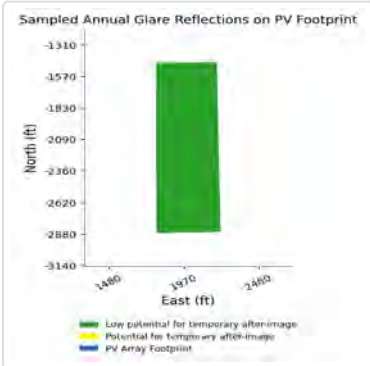
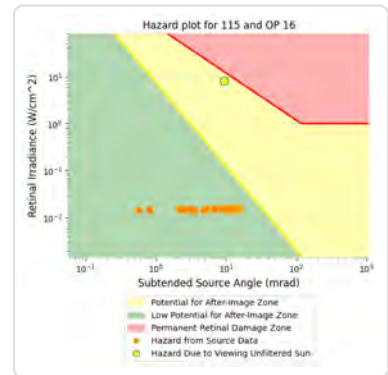
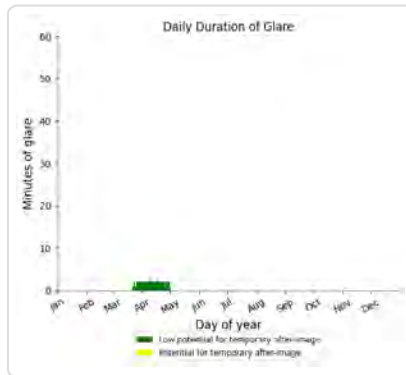
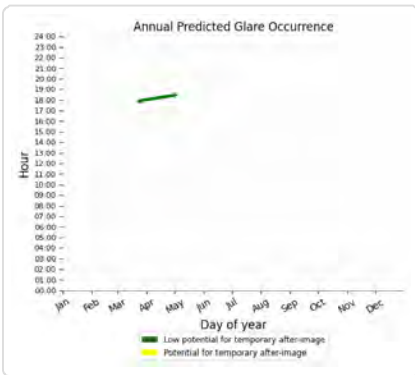
- 42 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 16

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

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



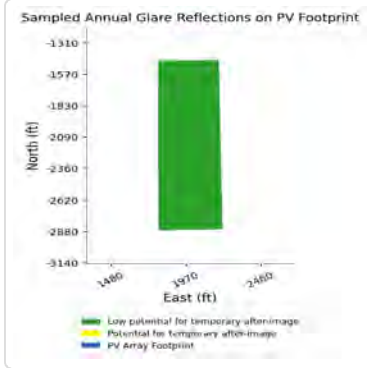
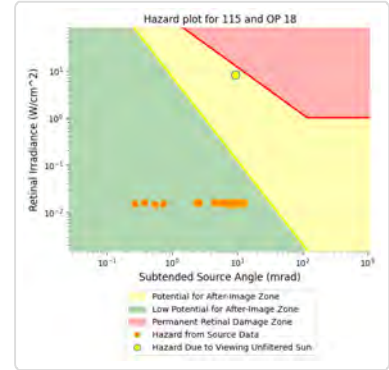
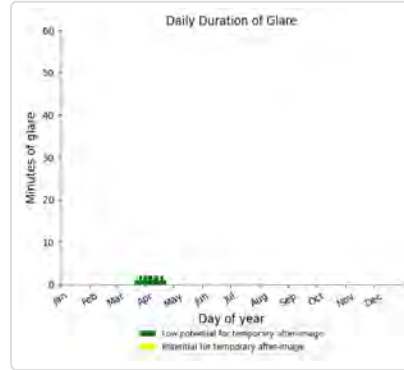
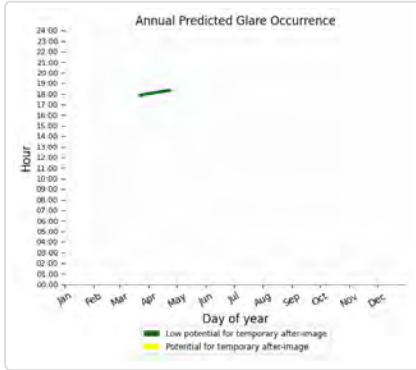
115: OP 17

No glare found

115: OP 18

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

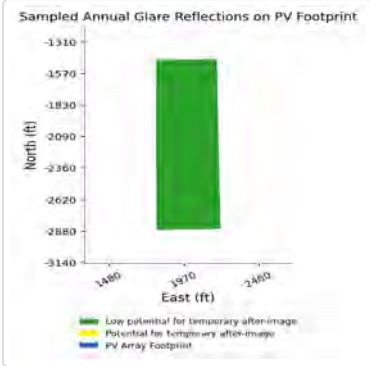
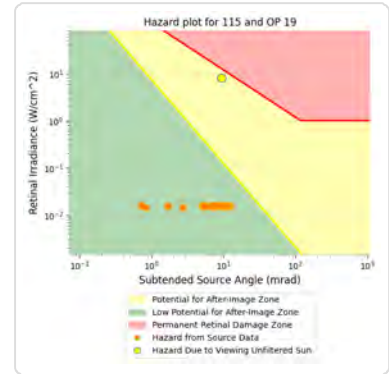
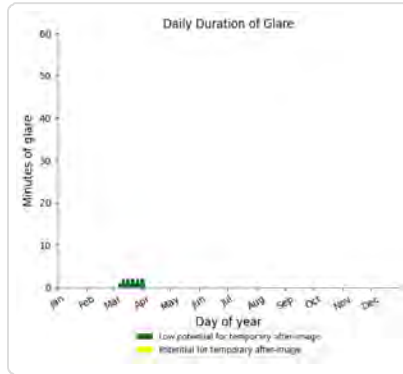
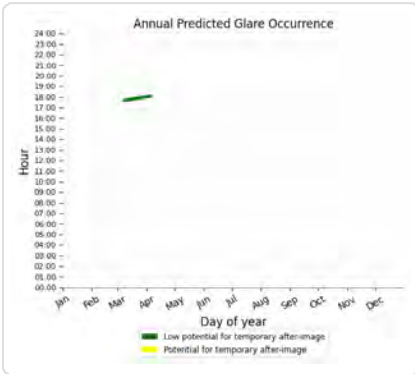
- 54 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 19

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

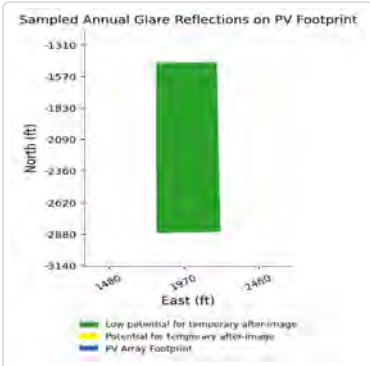
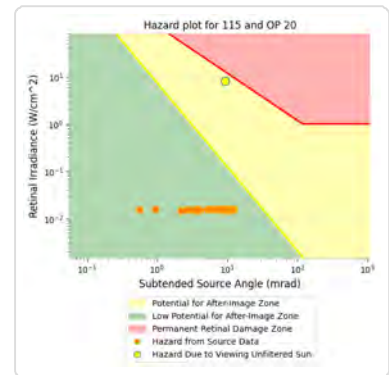
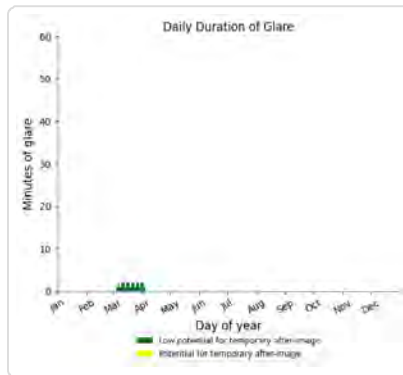
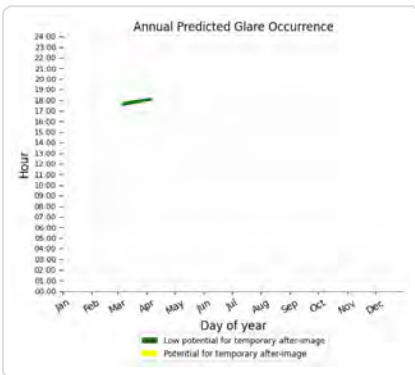
- 47 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 20

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

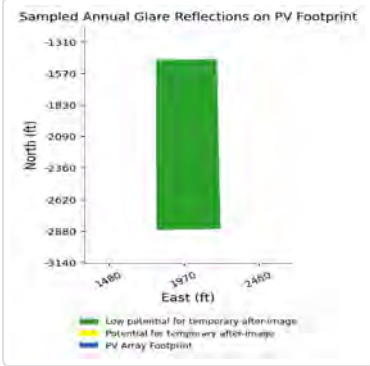
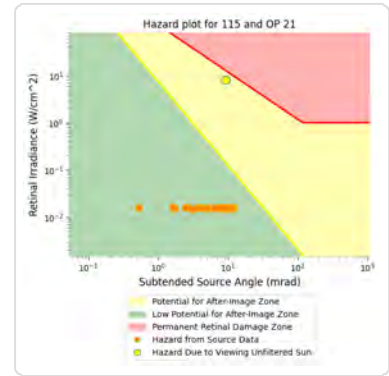
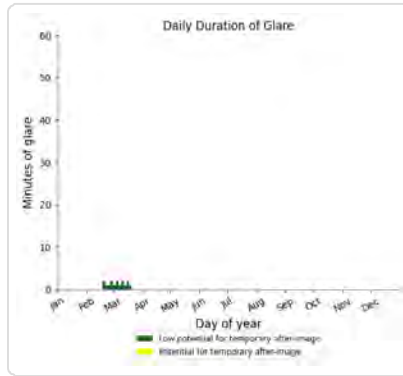
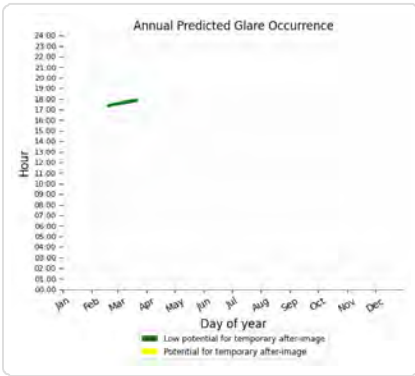
- 49 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 21

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

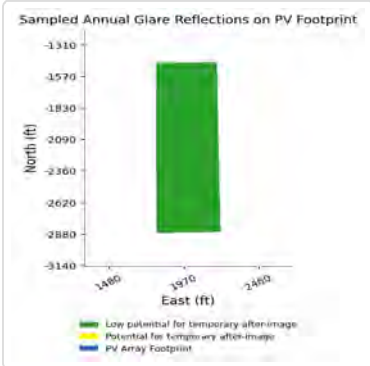
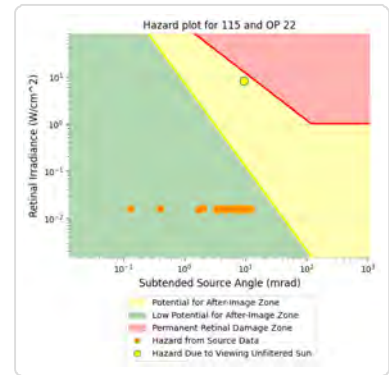
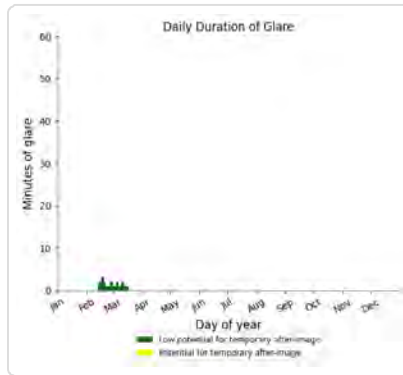
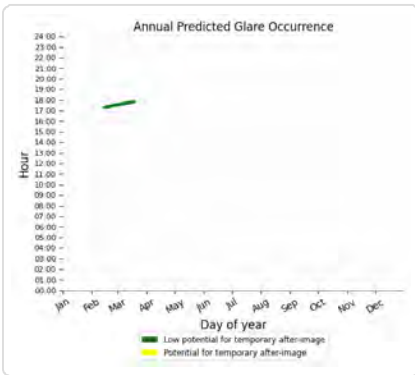
- 44 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 22

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

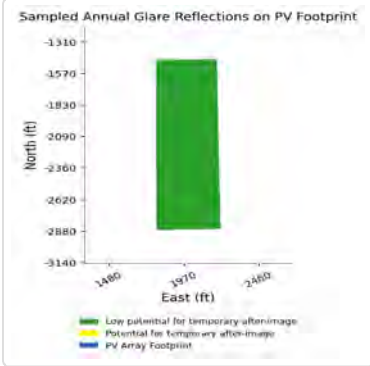
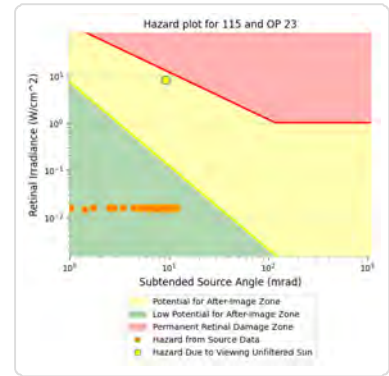
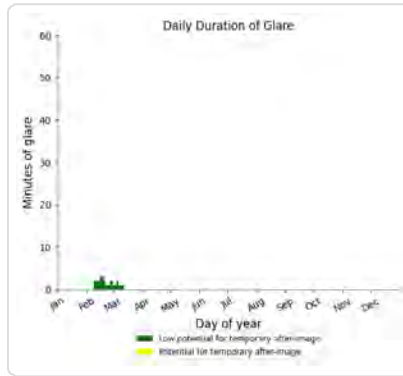
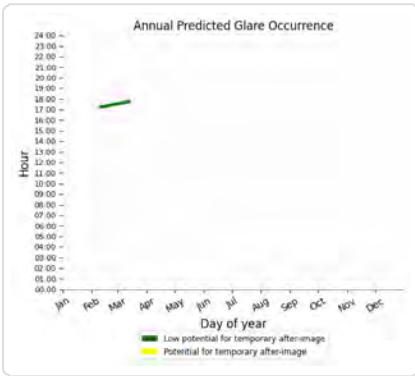
- 51 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 23

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

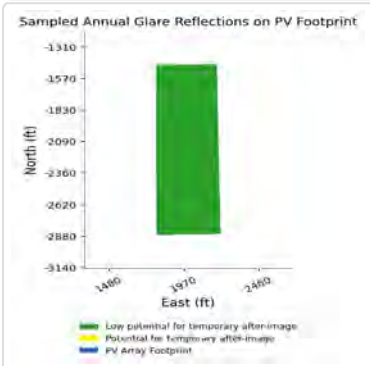
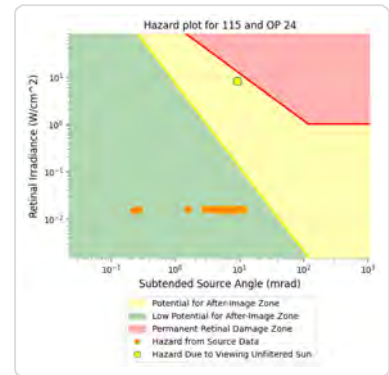
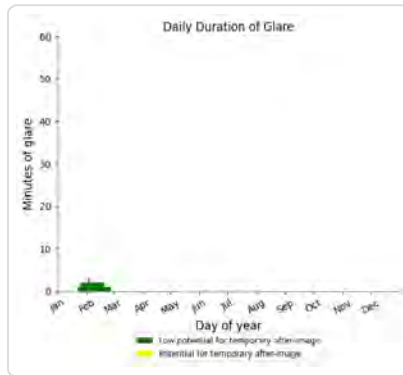
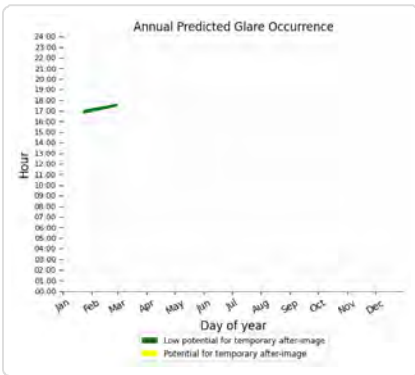
- 54 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 24

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

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



115: OP 25

No glare found

115: OP 26

No glare found

115: OP 27

No glare found

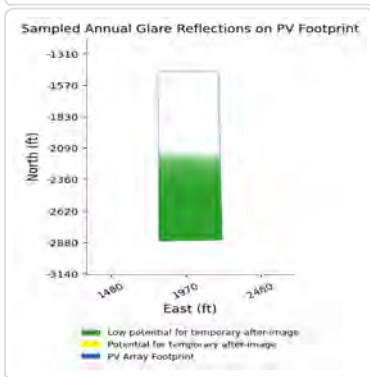
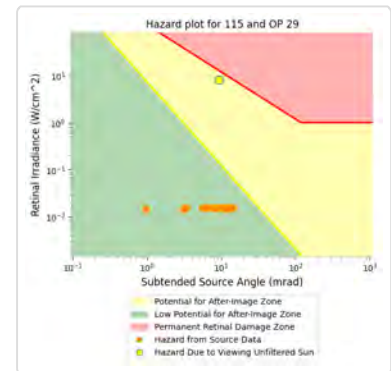
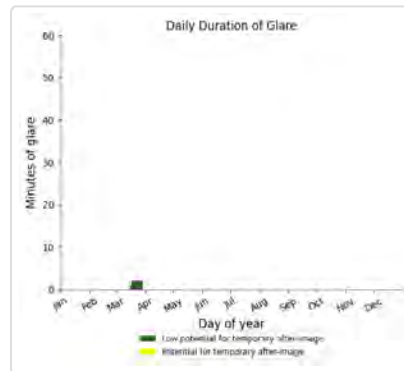
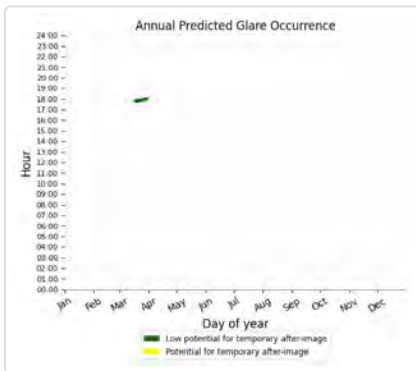
115: OP 28

No glare found

115: OP 29

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

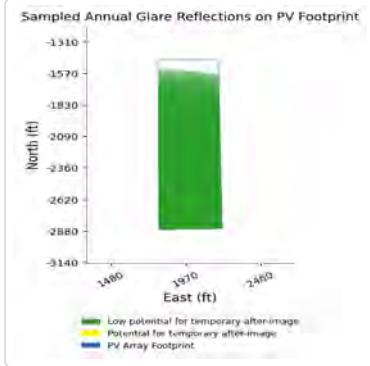
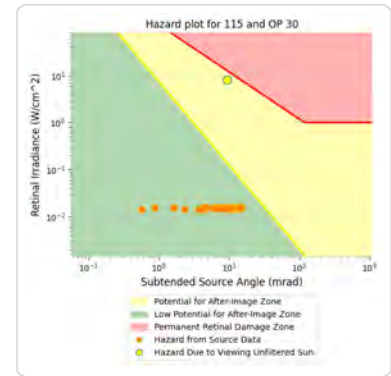
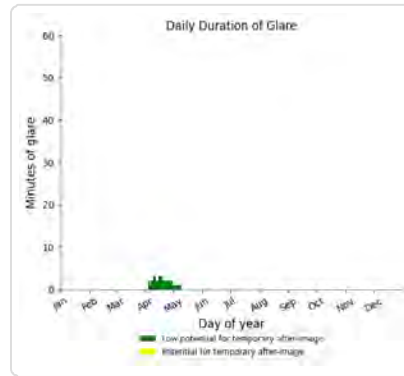
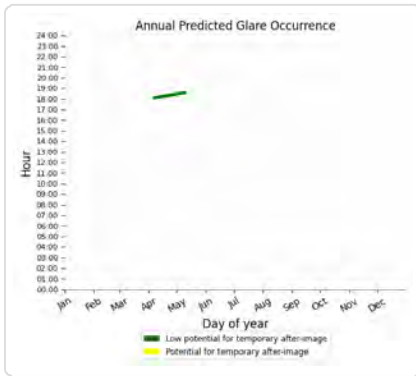
- 26 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: OP 30

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

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



115: OP 31

No glare found

115: OP 32

No glare found

115: OP 33

No glare found

115: OP 34

No glare found

115: OP 35

No glare found

115: OP 36

No glare found

115: OP 37

No glare found

115: OP 38

No glare found

115: OP 39

No glare found

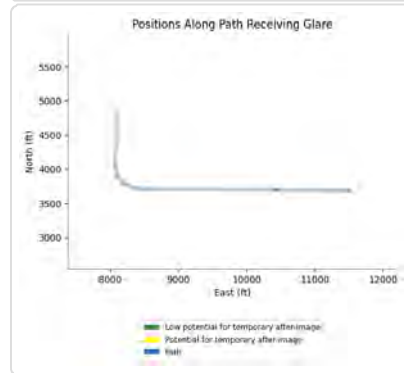
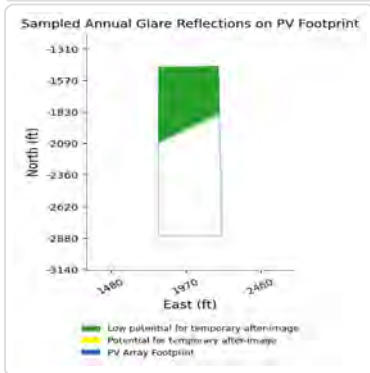
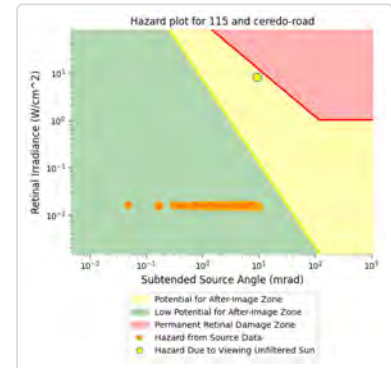
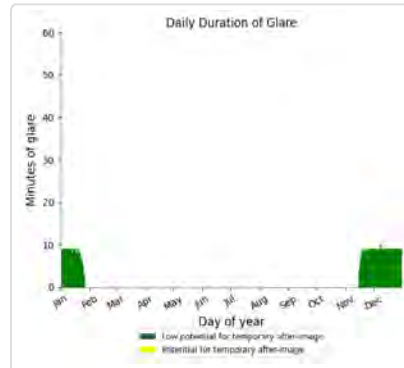
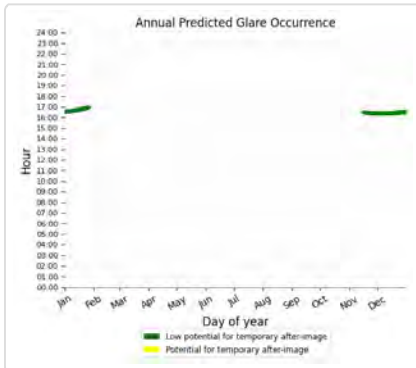
115: OP 40

No glare found

115: Ceredo Road

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

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



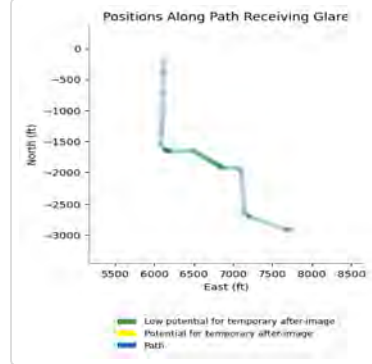
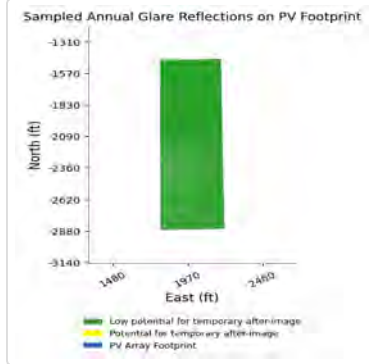
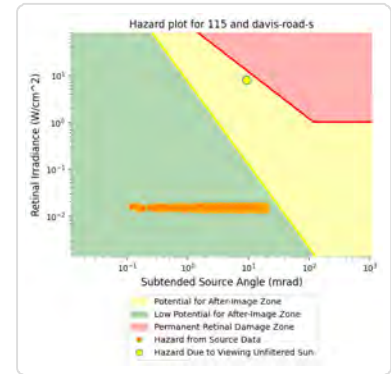
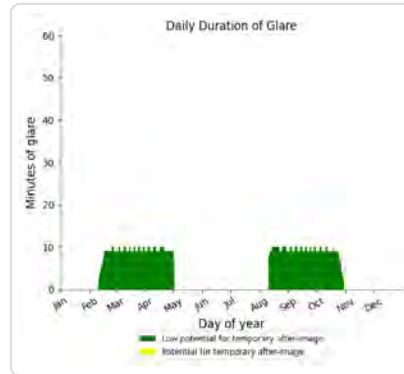
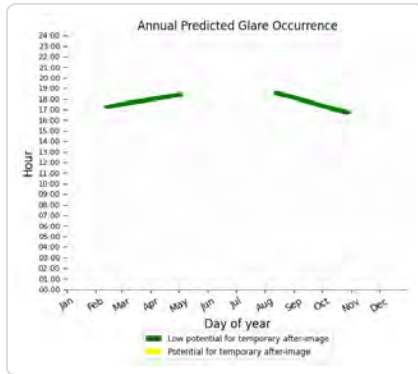
115: Davis Road north segment

No glare found

115: Davis Road south segment

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

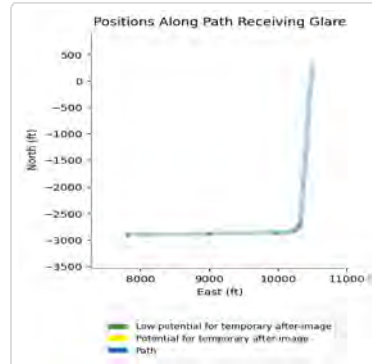
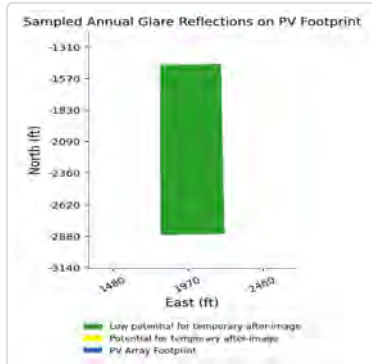
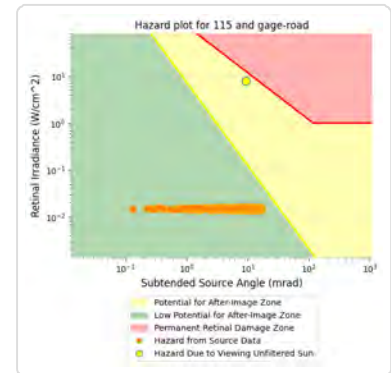
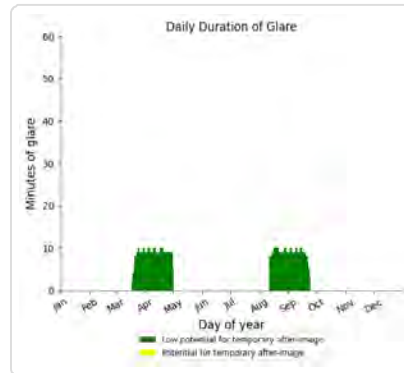
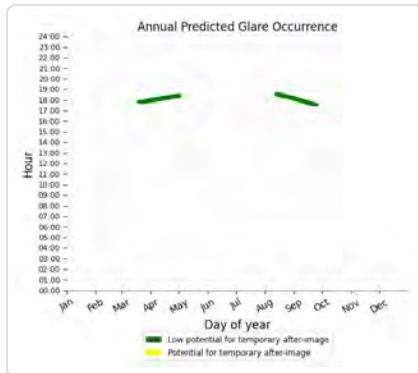
- 1,466 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



115: Gage Road

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

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



115: Hinkleville Road

No glare found

115: Randy Williams Road

No glare found

116 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	561	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	26	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0

OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	889	0
Route: Davis Road north segment	521	0
Route: Davis Road south segment	699	0
Route: Gage Road	307	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

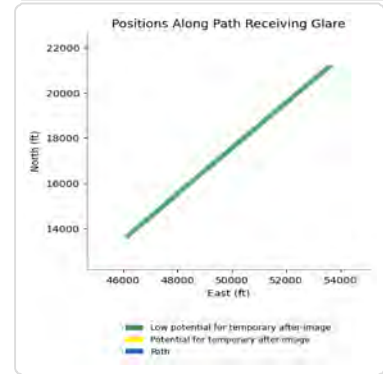
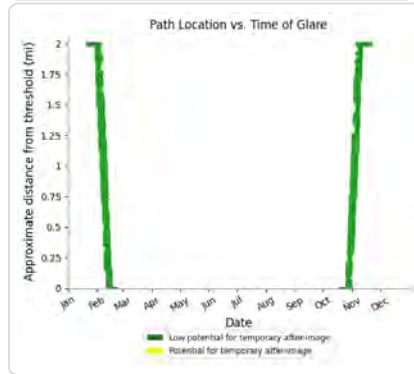
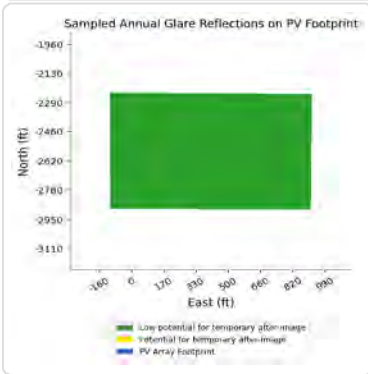
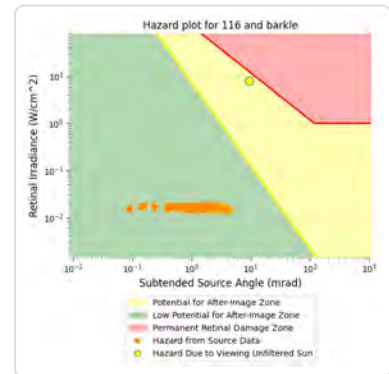
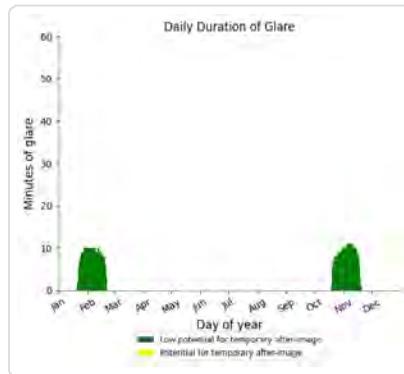
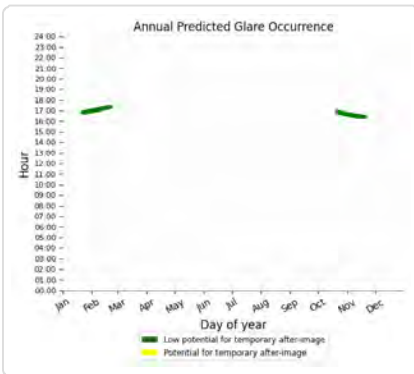
116: Barkley Regional Airport Runway 14

No glare found

116: Barkley Regional Airport Runway 23

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

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



116: Barkley Regional Airport Runway 32

No glare found

116: Barkley Regional Airport Runway 5

No glare found

116: 1-ATCT

No glare found

116: OP 2

No glare found

116: OP 3

No glare found

116: OP 4

No glare found

116: OP 5

No glare found

116: OP 6

No glare found

116: OP 7

No glare found

116: OP 8

No glare found

116: OP 9

No glare found

116: OP 10

No glare found

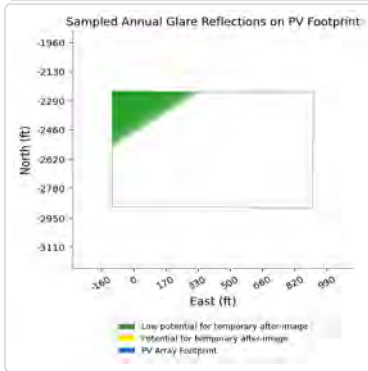
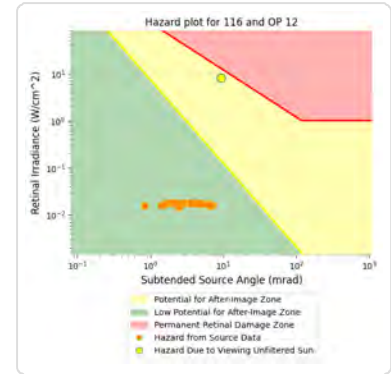
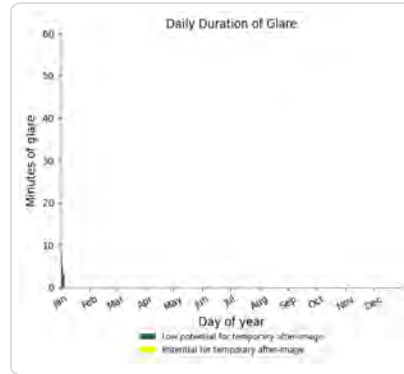
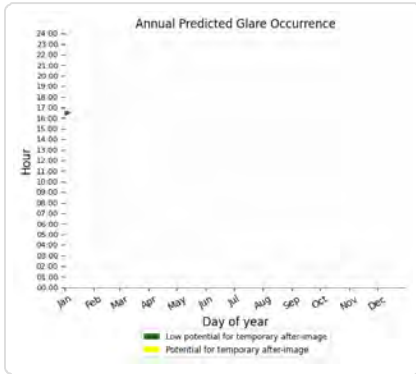
116: OP 11

No glare found

116: OP 12

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

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



116: OP 13

No glare found

116: OP 14

No glare found

116: OP 15

No glare found

116: OP 16

No glare found

116: OP 17

No glare found

116: OP 18

No glare found

116: OP 19

No glare found

116: OP 20

No glare found

116: OP 21

No glare found

116: OP 22

No glare found

116: OP 23

No glare found

116: OP 24

No glare found

116: OP 25

No glare found

116: OP 26

No glare found

116: OP 27

No glare found

116: OP 28

No glare found

116: OP 29

No glare found

116: OP 30

No glare found

116: OP 31

No glare found

116: OP 32

No glare found

116: OP 33

No glare found

116: OP 34

No glare found

116: OP 35

No glare found

116: OP 36

No glare found

116: OP 37

No glare found

116: OP 38

No glare found

116: OP 39

No glare found

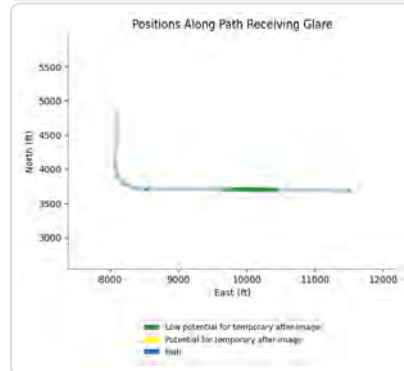
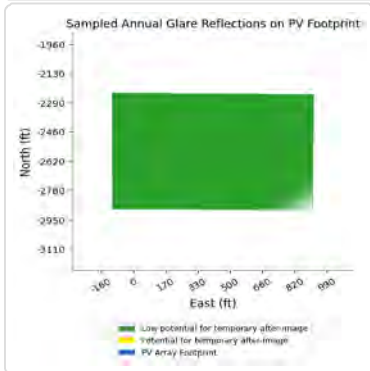
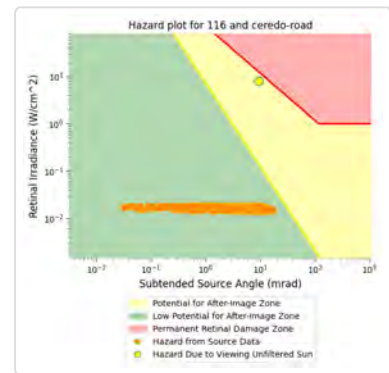
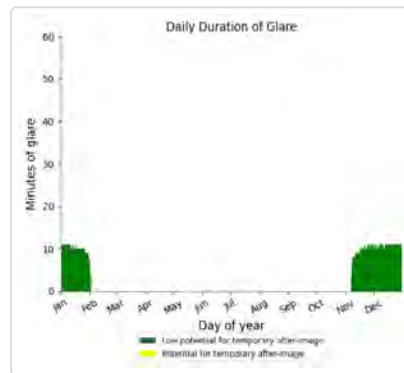
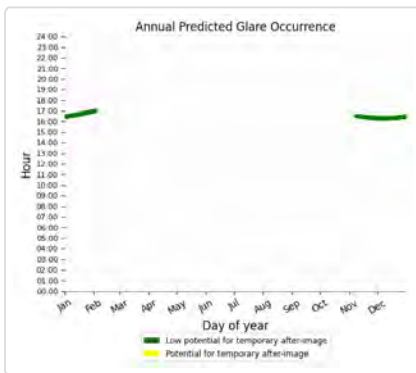
116: OP 40

No glare found

116: Ceredo Road

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

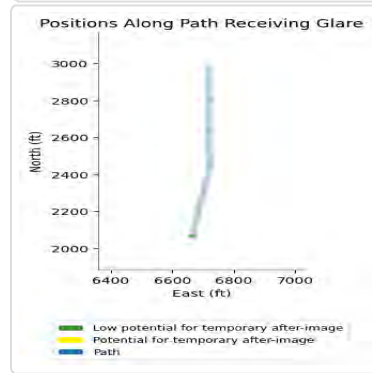
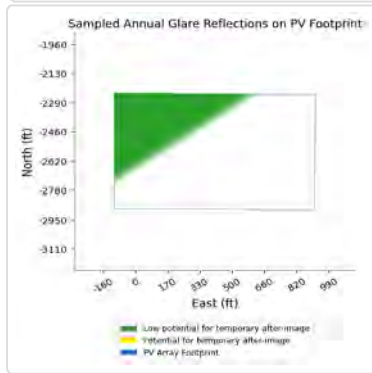
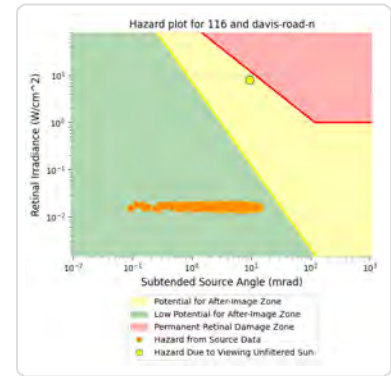
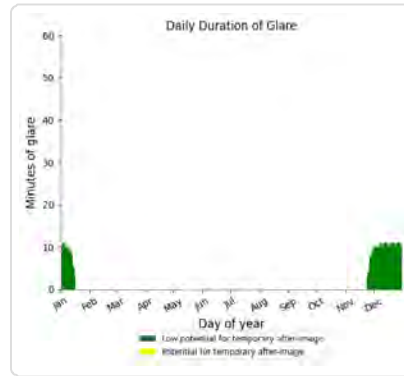
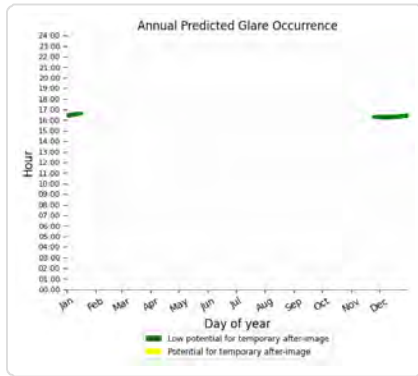
- 889 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



116: Davis Road north segment

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

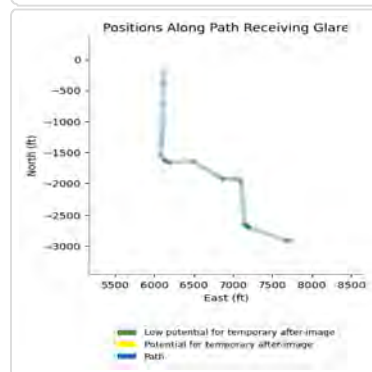
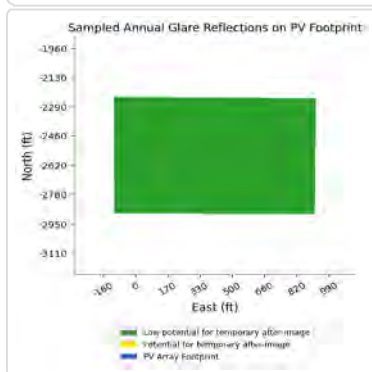
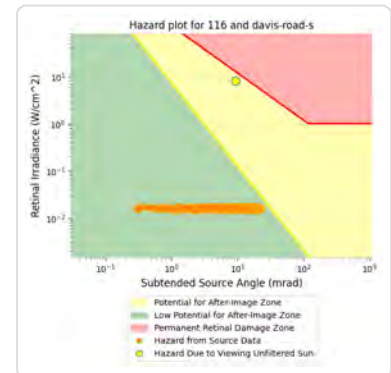
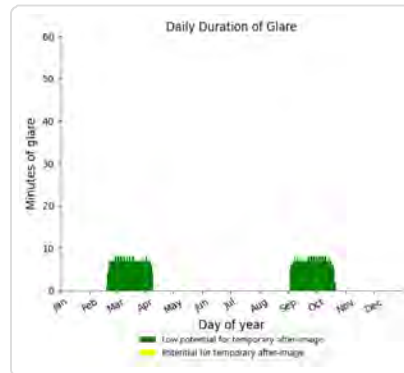
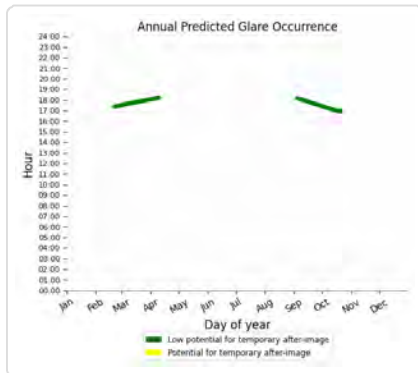
- 521 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



116: Davis Road south segment

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

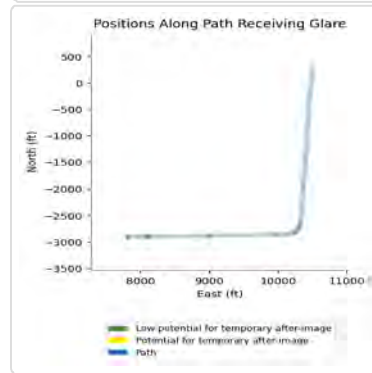
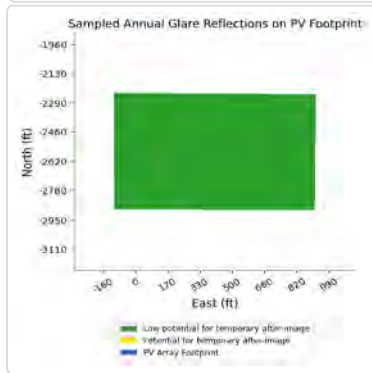
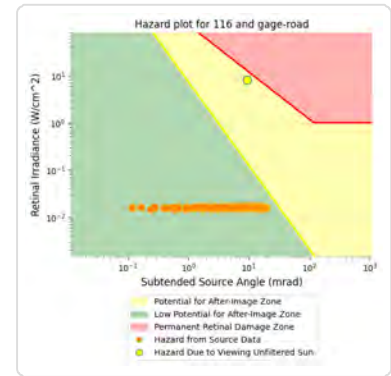
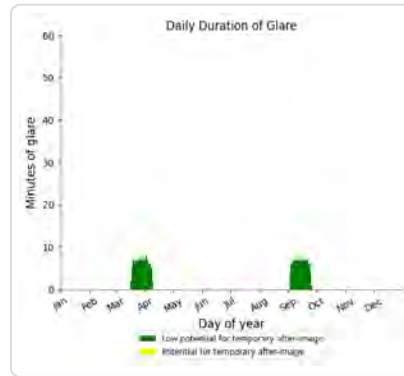
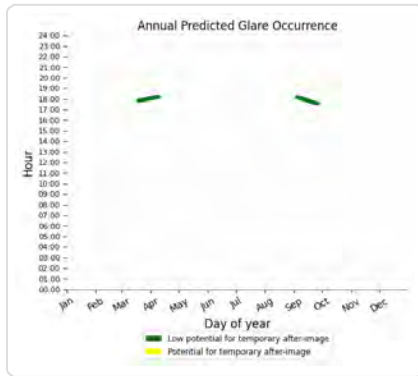
- 699 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



116: Gage Road

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

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



116: Hinkleville Road

No glare found

116: Randy Williams Road

No glare found

117 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	532	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	28	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0

OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	46	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
Route: Ceredo Road	825	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	875	0
Route: Gage Road	270	0
Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

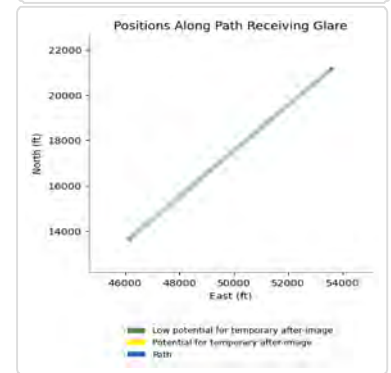
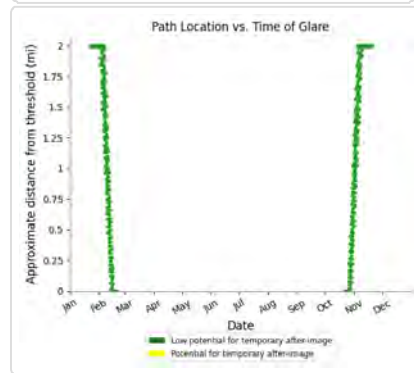
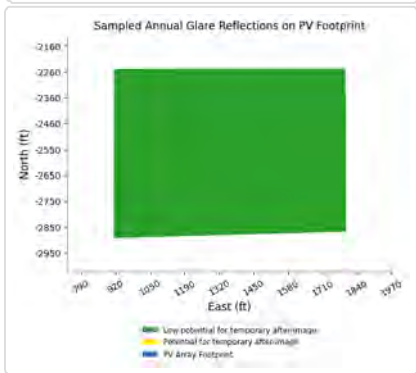
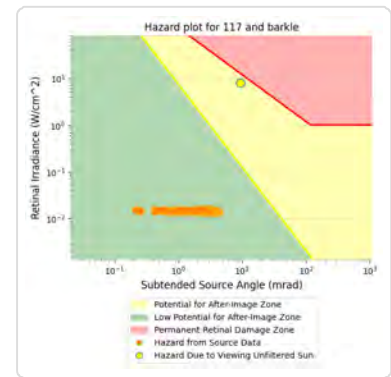
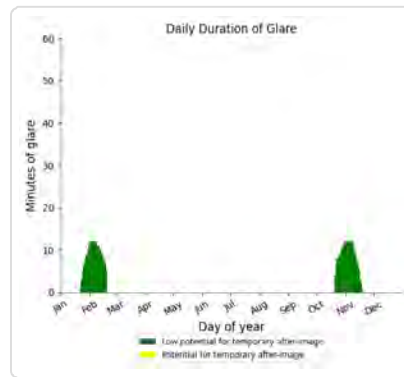
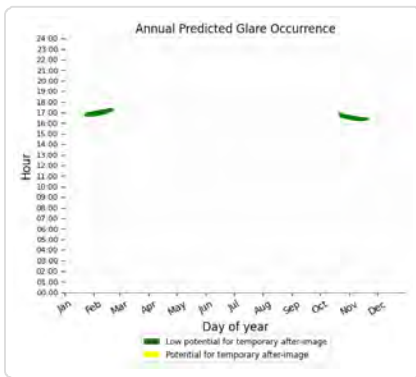
117: Barkley Regional Airport Runway 14

No glare found

117: Barkley Regional Airport Runway 23

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

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



117: Barkley Regional Airport Runway 32

No glare found

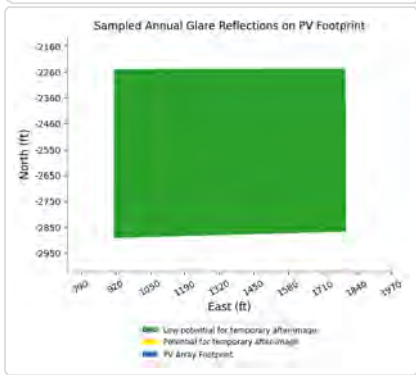
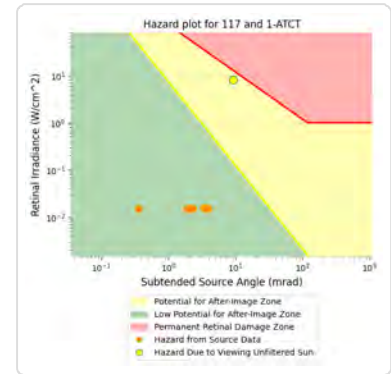
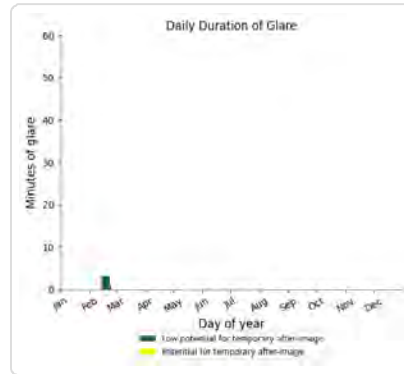
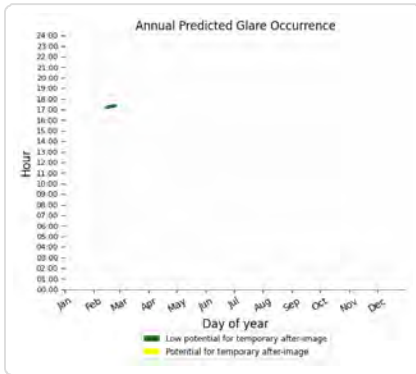
117: Barkley Regional Airport Runway 5

No glare found

117: 1-ATCT

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

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



117: OP 2

No glare found

117: OP 3

No glare found

117: OP 4

No glare found

117: OP 5

No glare found

117: OP 6

No glare found

117: OP 7

No glare found

117: OP 8

No glare found

117: OP 9

No glare found

117: OP 10

No glare found

117: OP 11

No glare found

117: OP 12

No glare found

117: OP 13

No glare found

117: OP 14

No glare found

117: OP 15

No glare found

117: OP 16

No glare found

117: OP 17

No glare found

117: OP 18

No glare found

117: OP 19

No glare found

117: OP 20

No glare found

117: OP 21

No glare found

117: OP 22

No glare found

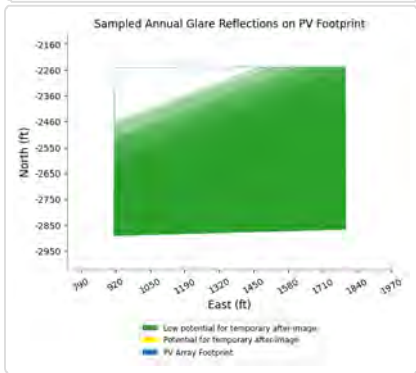
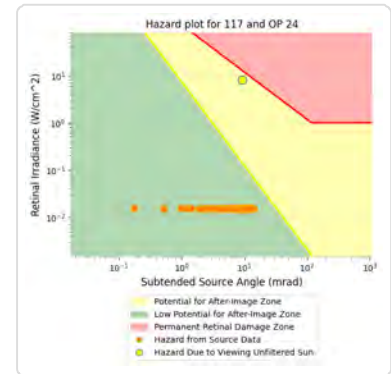
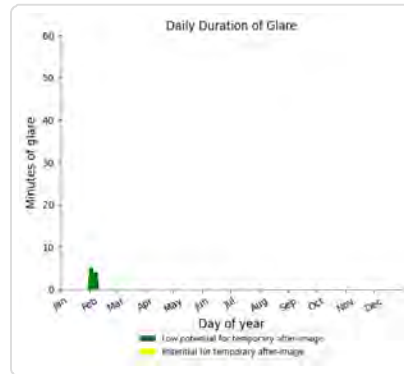
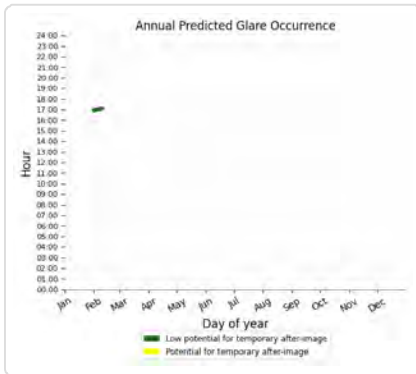
117: OP 23

No glare found

117: OP 24

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

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



117: OP 25

No glare found

117: OP 26

No glare found

117: OP 27

No glare found

117: OP 28

No glare found

117: OP 29

No glare found

117: OP 30

No glare found

117: OP 31

No glare found

117: OP 32

No glare found

117: OP 33

No glare found

117: OP 34

No glare found

117: OP 35

No glare found

117: OP 36

No glare found

117: OP 37

No glare found

117: OP 38

No glare found

117: OP 39

No glare found

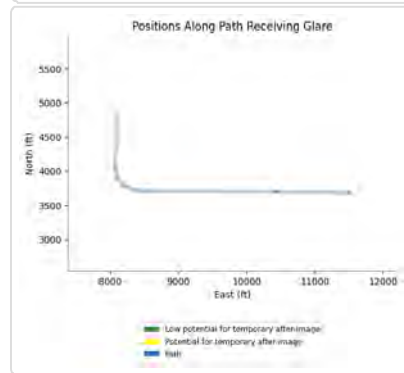
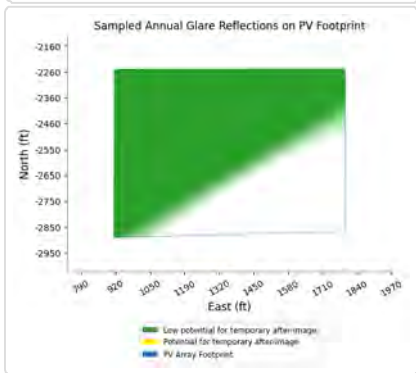
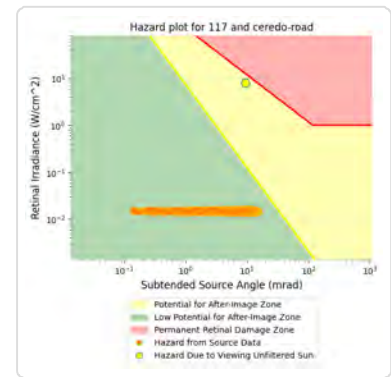
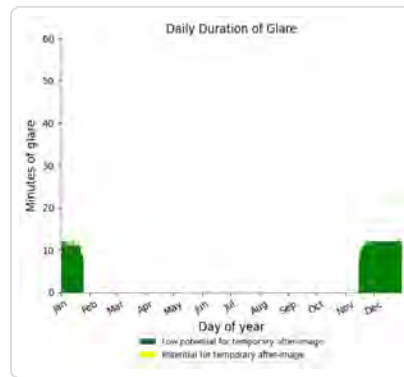
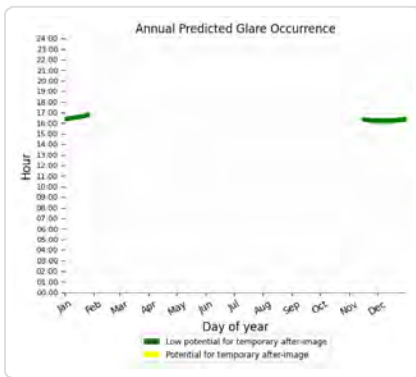
117: OP 40

No glare found

117: Ceredo Road

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

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



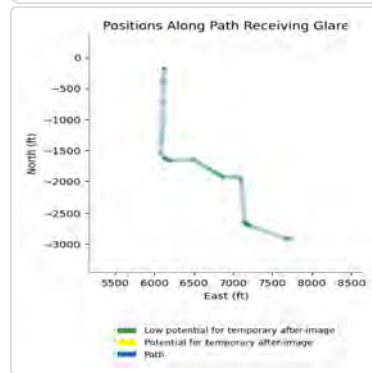
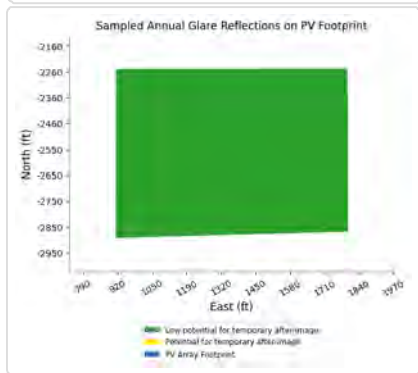
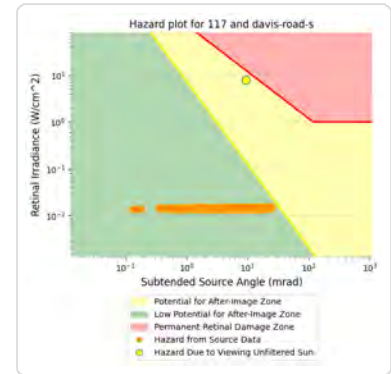
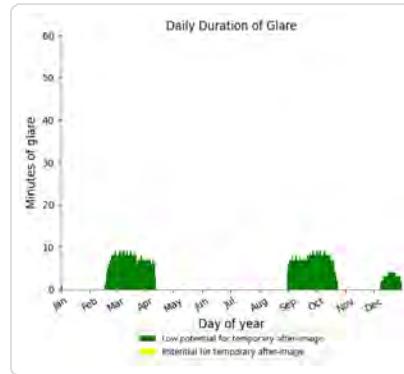
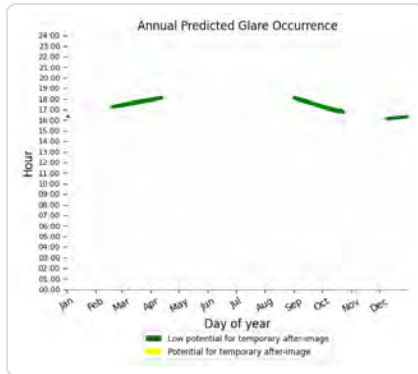
117: Davis Road north segment

No glare found

117: Davis Road south segment

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

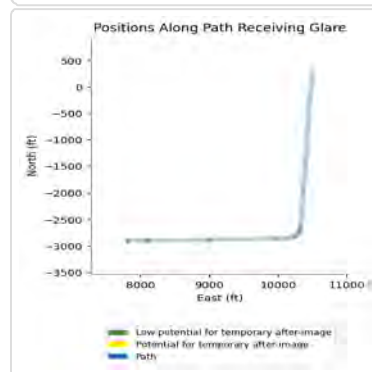
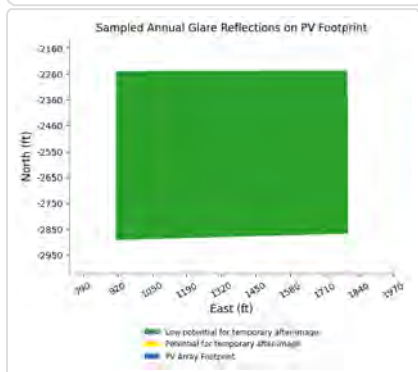
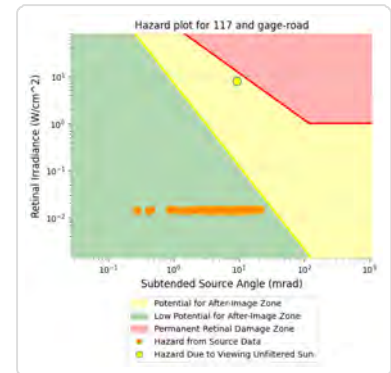
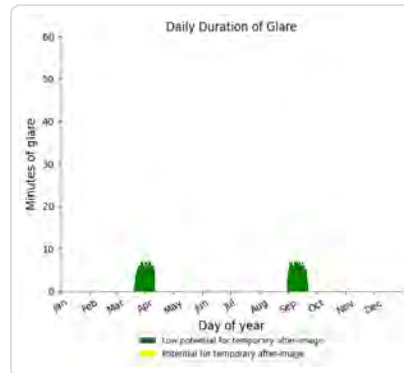
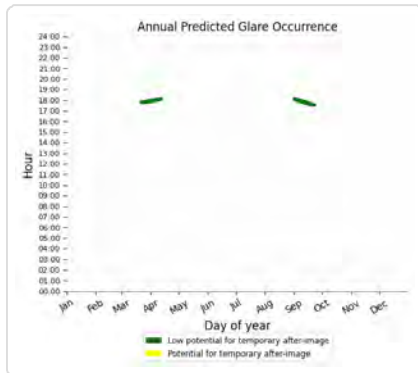
- 875 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



117: Gage Road

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

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



117: Hinkleville Road

No glare found

117: Randy Williams Road

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 1 9ft vehicles 10 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98058.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
101	SA tracking	SA tracking	0	0	-
102	SA tracking	SA tracking	0	0	-
103	SA tracking	SA tracking	0	0	-
104	SA tracking	SA tracking	0	0	-
105	SA tracking	SA tracking	0	0	-
106	SA tracking	SA tracking	0	0	-
107	SA tracking	SA tracking	0	0	-
108	SA tracking	SA tracking	0	0	-
109	SA tracking	SA tracking	0	0	-
110	SA tracking	SA tracking	0	0	-
111	SA tracking	SA tracking	0	0	-
112	SA tracking	SA tracking	0	0	-
113	SA tracking	SA tracking	0	0	-
114	SA tracking	SA tracking	0	0	-
115	SA tracking	SA tracking	0	0	-
116	SA tracking	SA tracking	0	0	-
117	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 243.4 acres

Name: 101

Footprint area: 13.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

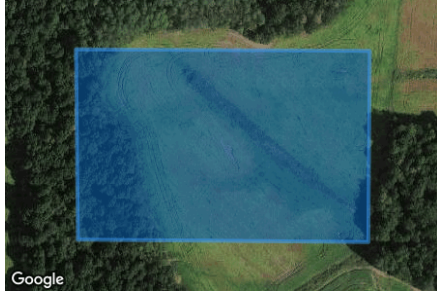
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.028688	-88.924307	502.68	7.50	510.18
2	37.028675	-88.921045	418.49	7.50	425.99
3	37.026992	-88.921061	405.95	7.50	413.45
4	37.027013	-88.924285	475.57	7.50	483.07

Name: 102

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.034498	-88.913072	379.74	7.50	387.24
2	37.034464	-88.909516	407.84	7.50	415.34
3	37.036271	-88.909510	422.93	7.50	430.43
4	37.036271	-88.913062	426.66	7.50	434.16

Name: 103

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036258	-88.913748	378.82	7.50	386.32
2	37.037654	-88.913705	406.07	7.50	413.57
3	37.037710	-88.910068	450.29	7.50	457.79
4	37.036267	-88.910057	423.72	7.50	431.22

Name: 104

Footprint area: 16.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036267	-88.910057	423.72	7.50	431.22
2	37.038048	-88.910074	446.66	7.50	454.16
3	37.038112	-88.906340	465.83	7.50	473.33
4	37.036237	-88.906367	433.86	7.50	441.36

Name: 105

Footprint area: 9.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036262	-88.909516	422.52	7.50	430.02
2	37.035389	-88.909521	427.77	7.50	435.27
3	37.035474	-88.904650	432.43	7.50	439.93
4	37.036245	-88.904655	452.77	7.50	460.27

Name: 106

Footprint area: 15.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037277	-88.906345	460.52	7.50	468.02
2	37.037277	-88.902161	453.49	7.50	460.99
3	37.035483	-88.902140	465.22	7.50	472.72
4	37.035483	-88.904672	433.17	7.50	440.67
5	37.036241	-88.904655	452.39	7.50	459.89
6	37.036237	-88.906383	433.99	7.50	441.49

Name: 107

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027531	-88.897859	439.14	7.50	446.64
2	37.027612	-88.893122	468.46	7.50	475.96
3	37.027072	-88.893149	452.57	7.50	460.07
4	37.027064	-88.893476	459.66	7.50	467.16
5	37.026760	-88.893476	448.24	7.50	455.74
6	37.026687	-88.895692	449.77	7.50	457.27
7	37.025779	-88.895692	450.21	7.50	457.71
8	37.025783	-88.897279	438.36	7.50	445.86
9	37.026640	-88.897290	444.59	7.50	452.09
10	37.026631	-88.897843	442.31	7.50	449.81

Name: 108

Footprint area: 7.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025466	-88.894957	459.28	7.50	466.78
2	37.025119	-88.894957	463.29	7.50	470.79
3	37.025145	-88.895842	456.82	7.50	464.32
4	37.024550	-88.895842	440.59	7.50	448.09
5	37.024494	-88.894222	454.32	7.50	461.82
6	37.023972	-88.894227	453.70	7.50	461.20
7	37.023980	-88.893363	457.74	7.50	465.24
8	37.024494	-88.893353	461.03	7.50	468.53
9	37.024494	-88.892682	453.78	7.50	461.28
10	37.025458	-88.892666	467.45	7.50	474.95

Name: 109

Footprint area: 20.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

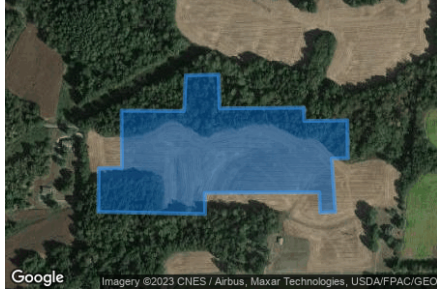
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024323	-88.897687	447.36	7.50	454.86
2	37.024336	-88.896958	452.34	7.50	459.84
3	37.023736	-88.896936	463.50	7.50	471.00
4	37.023749	-88.895064	475.99	7.50	483.49
5	37.023513	-88.895059	473.66	7.50	481.16
6	37.023526	-88.894098	480.00	7.50	487.50
7	37.022995	-88.894093	477.21	7.50	484.71
8	37.022854	-88.894088	467.01	7.50	474.51
9	37.022849	-88.894447	465.01	7.50	472.51
10	37.021903	-88.894367	458.27	7.50	465.77
11	37.021890	-88.894704	455.49	7.50	462.99
12	37.022250	-88.894721	461.39	7.50	468.89
13	37.022237	-88.897263	438.09	7.50	445.59
14	37.021864	-88.897258	436.54	7.50	444.04
15	37.021903	-88.899629	453.59	7.50	461.09
16	37.022678	-88.899618	450.59	7.50	458.09
17	37.022682	-88.899103	453.68	7.50	461.18
18	37.023697	-88.899114	450.96	7.50	458.46
19	37.023689	-88.897725	469.42	7.50	476.92

Name: 110

Footprint area: 18.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

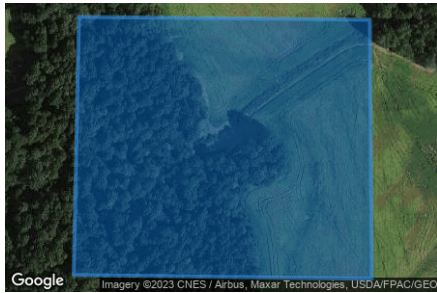
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027012	-88.924295	475.57	7.50	483.07
2	37.024716	-88.924354	500.53	7.50	508.03
3	37.024682	-88.921044	441.89	7.50	449.39
4	37.026986	-88.921065	405.73	7.50	413.23

Name: 111

Footprint area: 16.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

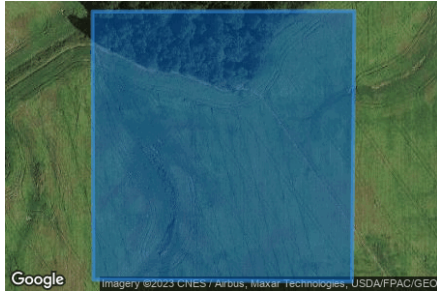
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027059	-88.921055	407.42	7.50	414.92
2	37.027063	-88.918147	414.56	7.50	422.06
3	37.024665	-88.918174	423.57	7.50	431.07
4	37.024682	-88.921044	441.89	7.50	449.39



Name: 112

Footprint area: 9.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

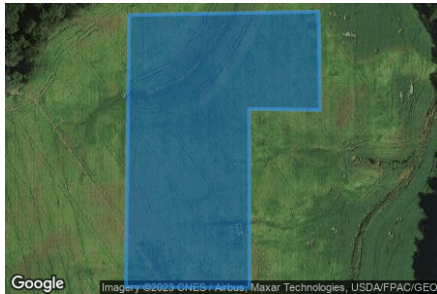
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027063	-88.918147	414.56	7.50	422.06
2	37.027093	-88.916044	395.18	7.50	402.68
3	37.026228	-88.916028	401.77	7.50	409.27
4	37.026237	-88.916817	408.26	7.50	415.76
5	37.024661	-88.916811	408.54	7.50	416.04
6	37.024669	-88.918185	423.84	7.50	431.34



Name: 113

Footprint area: 17.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024712	-88.924370	500.80	7.50	508.30
2	37.022524	-88.924381	458.49	7.50	465.99
3	37.022502	-88.921028	435.59	7.50	443.09
4	37.024678	-88.921022	441.52	7.50	449.02

Name: 114

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024682	-88.921039	441.89	7.50	449.39
2	37.024657	-88.918174	423.62	7.50	431.12
3	37.022507	-88.918185	426.22	7.50	433.72
4	37.022511	-88.921049	435.73	7.50	443.23

Name: 115

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024661	-88.918174	423.62	7.50	431.12
2	37.024674	-88.916827	408.64	7.50	416.14
3	37.020819	-88.916747	396.67	7.50	404.17
4	37.020793	-88.918163	414.15	7.50	421.65

Name: 116

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

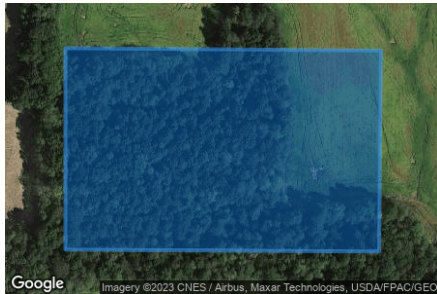
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022524	-88.924670	461.36	7.50	468.86
2	37.022502	-88.921167	439.11	7.50	446.61
3	37.020733	-88.921189	470.93	7.50	478.43
4	37.020750	-88.924670	494.17	7.50	501.67

Name: 117

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

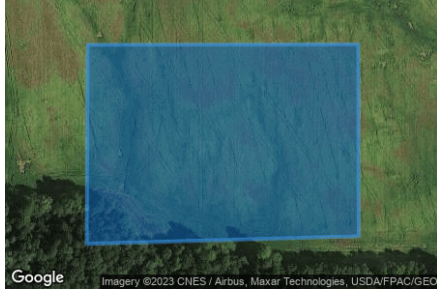
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022498	-88.921173	439.11	7.50	446.61
2	37.022502	-88.918169	426.07	7.50	433.57
3	37.020802	-88.918163	414.28	7.50	421.78
4	37.020733	-88.921183	470.20	7.50	477.70



2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Ceredo Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.041978	-88.896576	456.64	9.00	465.64
2	37.039854	-88.896662	466.14	9.00	475.14
3	37.039383	-88.896576	466.46	9.00	475.46
4	37.039083	-88.896190	466.08	9.00	475.08
5	37.038912	-88.895664	465.00	9.00	474.00
6	37.038878	-88.895107	459.47	9.00	468.47
7	37.038852	-88.888562	448.51	9.00	457.51
8	37.038809	-88.884893	441.28	9.00	450.28

Name: Davis Road north segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.034365	-88.901469	467.17	9.00	476.17
2	37.034748	-88.901405	473.42	9.00	482.42
3	37.035048	-88.901343	465.63	9.00	474.63
4	37.035433	-88.901279	465.38	9.00	474.38
5	37.035928	-88.901289	465.51	9.00	474.51
6	37.036388	-88.901281	463.03	9.00	472.03
7	37.036887	-88.901287	471.19	9.00	480.19

Name: Davis Road south segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.028190	-88.903323	442.11	9.00	451.11
2	37.027659	-88.903365	427.70	9.00	436.70
3	37.026661	-88.903395	399.96	9.00	408.96
4	37.025710	-88.903414	399.22	9.00	408.22
5	37.025025	-88.903441	417.06	9.00	426.06
6	37.024420	-88.903480	415.41	9.00	424.41
7	37.024206	-88.903287	413.49	9.00	422.49
8	37.024120	-88.903094	420.49	9.00	429.49
9	37.024163	-88.902075	433.01	9.00	442.01
10	37.023401	-88.900777	457.16	9.00	466.16
11	37.023401	-88.900294	454.34	9.00	463.34
12	37.023349	-88.900058	458.83	9.00	467.83
13	37.023204	-88.899961	460.98	9.00	469.98
14	37.021431	-88.899833	442.15	9.00	451.15
15	37.021268	-88.899639	456.35	9.00	465.35
16	37.020694	-88.897998	453.21	9.00	462.21
17	37.020694	-88.897773	458.98	9.00	467.98

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020732	-88.897526	458.31	9.00	467.31
2	37.020728	-88.896550	450.67	9.00	459.67
3	37.020767	-88.893556	466.86	9.00	475.86
4	37.020835	-88.890080	457.23	9.00	466.23
5	37.020852	-88.889511	451.91	9.00	460.91
6	37.020959	-88.889216	452.48	9.00	461.48
7	37.021169	-88.888991	454.88	9.00	463.88
8	37.021396	-88.888921	453.88	9.00	462.88
9	37.023345	-88.888776	468.05	9.00	477.05
10	37.024724	-88.888685	472.15	9.00	481.15
11	37.026596	-88.888567	464.35	9.00	473.35
12	37.027966	-88.888460	451.46	9.00	460.46
13	37.029534	-88.888337	445.16	9.00	454.16

Name: Hinkleville Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.030896	-88.932654	443.03	9.00	452.03
2	37.029800	-88.932815	449.09	9.00	458.09
3	37.028018	-88.933674	441.08	9.00	450.08
4	37.027359	-88.933845	433.82	9.00	442.82
5	37.025046	-88.933845	415.01	9.00	424.01
6	37.022862	-88.933824	431.33	9.00	440.33
7	37.020515	-88.933781	449.18	9.00	458.18
8	37.019907	-88.933706	456.60	9.00	465.60
9	37.017225	-88.932923	466.16	9.00	475.16

Name: Randy Williams Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035504	-88.932272	436.52	9.00	445.52
2	37.035260	-88.931534	429.65	9.00	438.65
3	37.034877	-88.930375	425.36	9.00	434.36
4	37.034894	-88.930169	425.24	9.00	434.24
5	37.034990	-88.930067	424.41	9.00	433.41
6	37.035213	-88.929946	427.76	9.00	436.76
7	37.035294	-88.929831	421.73	9.00	430.73
8	37.035344	-88.926974	399.71	9.00	408.71
9	37.035376	-88.925234	389.46	9.00	398.46
10	37.035393	-88.924292	385.63	9.00	394.63
11	37.035350	-88.923766	382.47	9.00	391.47
12	37.035309	-88.923450	389.29	9.00	398.29

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.016411	-88.935586	473.40	16.00	489.40
OP 3	37.018141	-88.933559	457.09	16.00	473.09
OP 4	37.018869	-88.936809	460.16	16.00	476.16
OP 5	37.020959	-88.934353	460.29	16.00	476.29
OP 6	37.011607	-88.932428	473.59	16.00	489.59
OP 7	37.012110	-88.932313	472.59	16.00	488.59
OP 8	37.012421	-88.930593	468.74	16.00	484.74
OP 9	37.014078	-88.933142	470.26	16.00	486.26
OP 10	37.038117	-88.900931	462.68	16.00	478.68
OP 11	37.036139	-88.900330	464.55	16.00	480.55
OP 12	37.034418	-88.902304	465.01	16.00	481.01
OP 13	37.024478	-88.902358	435.09	16.00	451.09
OP 14	37.023129	-88.900276	459.28	16.00	475.28
OP 15	37.022276	-88.900749	441.74	16.00	457.74
OP 16	37.020452	-88.899150	443.08	16.00	459.08
OP 17	37.021548	-88.893190	473.39	16.00	489.39
OP 18	37.020482	-88.890342	455.35	16.00	471.35
OP 19	37.023223	-88.888421	469.18	16.00	485.18
OP 20	37.023617	-88.888400	468.22	16.00	484.22
OP 21	37.026624	-88.888013	466.30	16.00	482.30
OP 22	37.027472	-88.887949	471.05	16.00	487.05
OP 23	37.028465	-88.887461	468.91	16.00	484.91
OP 24	37.031459	-88.886254	458.87	16.00	474.87
OP 25	37.011508	-88.914846	455.12	16.00	471.12
OP 26	37.010099	-88.913934	472.36	16.00	488.36
OP 27	37.012254	-88.910388	465.32	16.00	481.32
OP 28	37.013997	-88.911059	446.09	16.00	462.09
OP 29	37.021321	-88.896259	448.33	16.00	464.33
OP 30	37.018387	-88.897455	455.43	16.00	471.43
OP 31	37.006758	-88.933691	477.67	16.00	493.67
OP 32	37.006955	-88.932248	482.92	16.00	498.92
OP 33	37.007070	-88.931229	478.67	16.00	494.67
OP 34	37.007764	-88.932318	479.71	16.00	495.71
OP 35	37.008437	-88.932608	478.17	16.00	494.17
OP 36	36.993735	-88.942986	481.27	16.00	497.27
OP 37	36.996539	-88.933851	488.27	16.00	504.27
OP 38	36.998814	-88.933478	483.80	16.00	499.80
OP 39	36.998319	-88.933521	487.33	16.00	503.33
OP 40	36.999444	-88.933577	481.91	16.00	497.91

1-ATCT map image



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	
101	SA tracking	SA tracking	0	0	-	-
102	SA tracking	SA tracking	0	0	-	-
103	SA tracking	SA tracking	0	0	-	-
104	SA tracking	SA tracking	0	0	-	-
105	SA tracking	SA tracking	0	0	-	-
106	SA tracking	SA tracking	0	0	-	-
107	SA tracking	SA tracking	0	0	-	-
108	SA tracking	SA tracking	0	0	-	-
109	SA tracking	SA tracking	0	0	-	-
110	SA tracking	SA tracking	0	0	-	-
111	SA tracking	SA tracking	0	0	-	-
112	SA tracking	SA tracking	0	0	-	-
113	SA tracking	SA tracking	0	0	-	-
114	SA tracking	SA tracking	0	0	-	-
115	SA tracking	SA tracking	0	0	-	-
116	SA tracking	SA tracking	0	0	-	-
117	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

101 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

102 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

103 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

104 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

105 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

106 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

107 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

108 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

109 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

110 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

111 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

113 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

114 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

115 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

116 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

117 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 1 9ft vehicles 60 deg

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98014.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
101	SA tracking	SA tracking	0	0	-
102	SA tracking	SA tracking	0	0	-
103	SA tracking	SA tracking	0	0	-
104	SA tracking	SA tracking	0	0	-
105	SA tracking	SA tracking	0	0	-
106	SA tracking	SA tracking	0	0	-
107	SA tracking	SA tracking	0	0	-
108	SA tracking	SA tracking	0	0	-
109	SA tracking	SA tracking	0	0	-
110	SA tracking	SA tracking	0	0	-
111	SA tracking	SA tracking	0	0	-
112	SA tracking	SA tracking	0	0	-
113	SA tracking	SA tracking	0	0	-
114	SA tracking	SA tracking	0	0	-
115	SA tracking	SA tracking	0	0	-
116	SA tracking	SA tracking	0	0	-
117	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 243.4 acres

Name: 101

Footprint area: 13.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

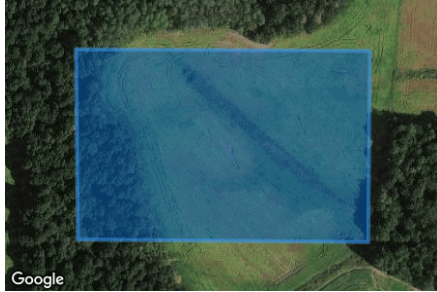
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.028688	-88.924307	502.68	7.50	510.18
2	37.028675	-88.921045	418.49	7.50	425.99
3	37.026992	-88.921061	405.95	7.50	413.45
4	37.027013	-88.924285	475.57	7.50	483.07

Name: 102

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.034498	-88.913072	379.74	7.50	387.24
2	37.034464	-88.909516	407.84	7.50	415.34
3	37.036271	-88.909510	422.93	7.50	430.43
4	37.036271	-88.913062	426.66	7.50	434.16

Name: 103

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036258	-88.913748	378.82	7.50	386.32
2	37.037654	-88.913705	406.07	7.50	413.57
3	37.037710	-88.910068	450.29	7.50	457.79
4	37.036267	-88.910057	423.72	7.50	431.22

Name: 104

Footprint area: 16.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036267	-88.910057	423.72	7.50	431.22
2	37.038048	-88.910074	446.66	7.50	454.16
3	37.038112	-88.906340	465.83	7.50	473.33
4	37.036237	-88.906367	433.86	7.50	441.36

Name: 105

Footprint area: 9.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036262	-88.909516	422.52	7.50	430.02
2	37.035389	-88.909521	427.77	7.50	435.27
3	37.035474	-88.904650	432.43	7.50	439.93
4	37.036245	-88.904655	452.77	7.50	460.27

Name: 106

Footprint area: 15.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037277	-88.906345	460.52	7.50	468.02
2	37.037277	-88.902161	453.49	7.50	460.99
3	37.035483	-88.902140	465.22	7.50	472.72
4	37.035483	-88.904672	433.17	7.50	440.67
5	37.036241	-88.904655	452.39	7.50	459.89
6	37.036237	-88.906383	433.99	7.50	441.49

Name: 107

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027531	-88.897859	439.14	7.50	446.64
2	37.027612	-88.893122	468.46	7.50	475.96
3	37.027072	-88.893149	452.57	7.50	460.07
4	37.027064	-88.893476	459.66	7.50	467.16
5	37.026760	-88.893476	448.24	7.50	455.74
6	37.026687	-88.895692	449.77	7.50	457.27
7	37.025779	-88.895692	450.21	7.50	457.71
8	37.025783	-88.897279	438.36	7.50	445.86
9	37.026640	-88.897290	444.59	7.50	452.09
10	37.026631	-88.897843	442.31	7.50	449.81

Name: 108

Footprint area: 7.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025466	-88.894957	459.28	7.50	466.78
2	37.025119	-88.894957	463.29	7.50	470.79
3	37.025145	-88.895842	456.82	7.50	464.32
4	37.024550	-88.895842	440.59	7.50	448.09
5	37.024494	-88.894222	454.32	7.50	461.82
6	37.023972	-88.894227	453.70	7.50	461.20
7	37.023980	-88.893363	457.74	7.50	465.24
8	37.024494	-88.893353	461.03	7.50	468.53
9	37.024494	-88.892682	453.78	7.50	461.28
10	37.025458	-88.892666	467.45	7.50	474.95

Name: 109

Footprint area: 20.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

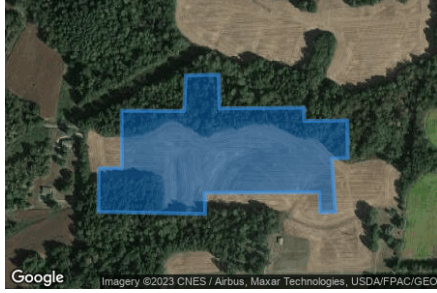
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024323	-88.897687	447.36	7.50	454.86
2	37.024336	-88.896958	452.34	7.50	459.84
3	37.023736	-88.896936	463.50	7.50	471.00
4	37.023749	-88.895064	475.99	7.50	483.49
5	37.023513	-88.895059	473.66	7.50	481.16
6	37.023526	-88.894098	480.00	7.50	487.50
7	37.022995	-88.894093	477.21	7.50	484.71
8	37.022854	-88.894088	467.01	7.50	474.51
9	37.022849	-88.894447	465.01	7.50	472.51
10	37.021903	-88.894367	458.27	7.50	465.77
11	37.021890	-88.894704	455.49	7.50	462.99
12	37.022250	-88.894721	461.39	7.50	468.89
13	37.022237	-88.897263	438.09	7.50	445.59
14	37.021864	-88.897258	436.54	7.50	444.04
15	37.021903	-88.899629	453.59	7.50	461.09
16	37.022678	-88.899618	450.59	7.50	458.09
17	37.022682	-88.899103	453.68	7.50	461.18
18	37.023697	-88.899114	450.96	7.50	458.46
19	37.023689	-88.897725	469.42	7.50	476.92

Name: 110

Footprint area: 18.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

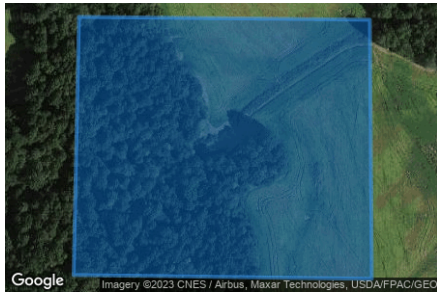
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027012	-88.924295	475.57	7.50	483.07
2	37.024716	-88.924354	500.53	7.50	508.03
3	37.024682	-88.921044	441.89	7.50	449.39
4	37.026986	-88.921065	405.73	7.50	413.23

Name: 111

Footprint area: 16.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

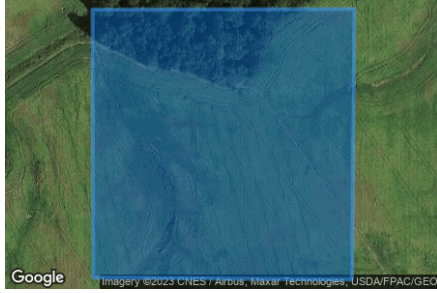
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027059	-88.921055	407.42	7.50	414.92
2	37.027063	-88.918147	414.56	7.50	422.06
3	37.024665	-88.918174	423.57	7.50	431.07
4	37.024682	-88.921044	441.89	7.50	449.39



Name: 112

Footprint area: 9.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027063	-88.918147	414.56	7.50	422.06
2	37.027093	-88.916044	395.18	7.50	402.68
3	37.026228	-88.916028	401.77	7.50	409.27
4	37.026237	-88.916817	408.26	7.50	415.76
5	37.024661	-88.916811	408.54	7.50	416.04
6	37.024669	-88.918185	423.84	7.50	431.34



Name: 113

Footprint area: 17.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

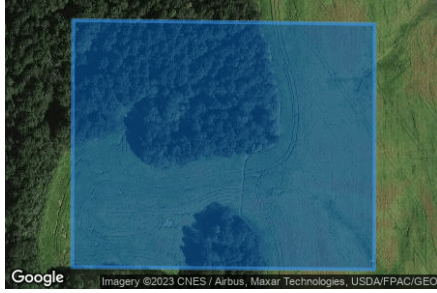
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024712	-88.924370	500.80	7.50	508.30
2	37.022524	-88.924381	458.49	7.50	465.99
3	37.022502	-88.921028	435.59	7.50	443.09
4	37.024678	-88.921022	441.52	7.50	449.02

Name: 114

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

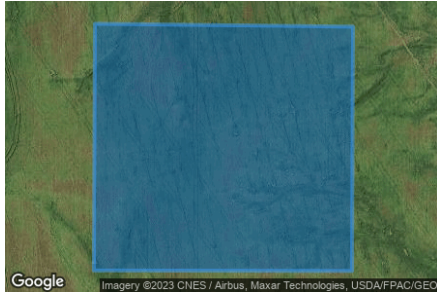
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024682	-88.921039	441.89	7.50	449.39
2	37.024657	-88.918174	423.62	7.50	431.12
3	37.022507	-88.918185	426.22	7.50	433.72
4	37.022511	-88.921049	435.73	7.50	443.23

Name: 115

Footprint area: 13.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024661	-88.918174	423.62	7.50	431.12
2	37.024674	-88.916827	408.64	7.50	416.14
3	37.020819	-88.916747	396.67	7.50	404.17
4	37.020793	-88.918163	414.15	7.50	421.65

Name: 116

Footprint area: 15.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

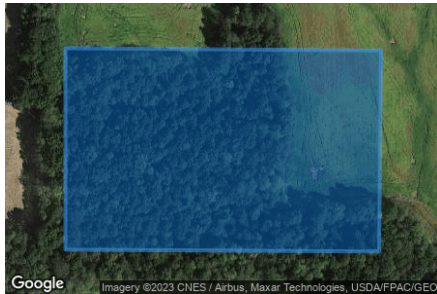
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022524	-88.924670	461.36	7.50	468.86
2	37.022502	-88.921167	439.11	7.50	446.61
3	37.020733	-88.921189	470.93	7.50	478.43
4	37.020750	-88.924670	494.17	7.50	501.67

Name: 117

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

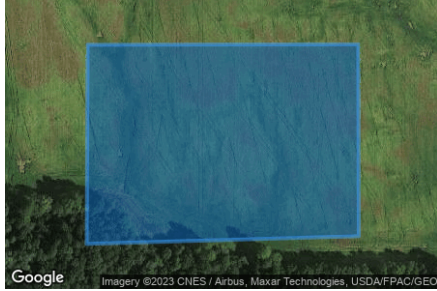
Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022498	-88.921173	439.11	7.50	446.61
2	37.022502	-88.918169	426.07	7.50	433.57
3	37.020802	-88.918163	414.28	7.50	421.78
4	37.020733	-88.921183	470.20	7.50	477.70



2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Ceredo Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.041978	-88.896576	456.64	9.00	465.64
2	37.039854	-88.896662	466.14	9.00	475.14
3	37.039383	-88.896576	466.46	9.00	475.46
4	37.039083	-88.896190	466.08	9.00	475.08
5	37.038912	-88.895664	465.00	9.00	474.00
6	37.038878	-88.895107	459.47	9.00	468.47
7	37.038852	-88.888562	448.51	9.00	457.51
8	37.038809	-88.884893	441.28	9.00	450.28

Name: Davis Road north segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.034365	-88.901469	467.17	9.00	476.17
2	37.034748	-88.901405	473.42	9.00	482.42
3	37.035048	-88.901343	465.63	9.00	474.63
4	37.035433	-88.901279	465.38	9.00	474.38
5	37.035928	-88.901289	465.51	9.00	474.51
6	37.036388	-88.901281	463.03	9.00	472.03
7	37.036887	-88.901287	471.19	9.00	480.19

Name: Davis Road south segment
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.028190	-88.903323	442.11	9.00	451.11
2	37.027659	-88.903365	427.70	9.00	436.70
3	37.026661	-88.903395	399.96	9.00	408.96
4	37.025710	-88.903414	399.22	9.00	408.22
5	37.025025	-88.903441	417.06	9.00	426.06
6	37.024420	-88.903480	415.41	9.00	424.41
7	37.024206	-88.903287	413.49	9.00	422.49
8	37.024120	-88.903094	420.49	9.00	429.49
9	37.024163	-88.902075	433.01	9.00	442.01
10	37.023401	-88.900777	457.16	9.00	466.16
11	37.023401	-88.900294	454.34	9.00	463.34
12	37.023349	-88.900058	458.83	9.00	467.83
13	37.023204	-88.899961	460.98	9.00	469.98
14	37.021431	-88.899833	442.15	9.00	451.15
15	37.021268	-88.899639	456.35	9.00	465.35
16	37.020694	-88.897998	453.21	9.00	462.21
17	37.020694	-88.897773	458.98	9.00	467.98

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020732	-88.897526	458.31	9.00	467.31
2	37.020728	-88.896550	450.67	9.00	459.67
3	37.020767	-88.893556	466.86	9.00	475.86
4	37.020835	-88.890080	457.23	9.00	466.23
5	37.020852	-88.889511	451.91	9.00	460.91
6	37.020959	-88.889216	452.48	9.00	461.48
7	37.021169	-88.888991	454.88	9.00	463.88
8	37.021396	-88.888921	453.88	9.00	462.88
9	37.023345	-88.888776	468.05	9.00	477.05
10	37.024724	-88.888685	472.15	9.00	481.15
11	37.026596	-88.888567	464.35	9.00	473.35
12	37.027966	-88.888460	451.46	9.00	460.46
13	37.029534	-88.888337	445.16	9.00	454.16

Name: Hinkleville Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.030896	-88.932654	443.03	9.00	452.03
2	37.029800	-88.932815	449.09	9.00	458.09
3	37.028018	-88.933674	441.08	9.00	450.08
4	37.027359	-88.933845	433.82	9.00	442.82
5	37.025046	-88.933845	415.01	9.00	424.01
6	37.022862	-88.933824	431.33	9.00	440.33
7	37.020515	-88.933781	449.18	9.00	458.18
8	37.019907	-88.933706	456.60	9.00	465.60
9	37.017225	-88.932923	466.16	9.00	475.16

Name: Randy Williams Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035504	-88.932272	436.52	9.00	445.52
2	37.035260	-88.931534	429.65	9.00	438.65
3	37.034877	-88.930375	425.36	9.00	434.36
4	37.034894	-88.930169	425.24	9.00	434.24
5	37.034990	-88.930067	424.41	9.00	433.41
6	37.035213	-88.929946	427.76	9.00	436.76
7	37.035294	-88.929831	421.73	9.00	430.73
8	37.035344	-88.926974	399.71	9.00	408.71
9	37.035376	-88.925234	389.46	9.00	398.46
10	37.035393	-88.924292	385.63	9.00	394.63
11	37.035350	-88.923766	382.47	9.00	391.47
12	37.035309	-88.923450	389.29	9.00	398.29

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.016411	-88.935586	473.40	16.00	489.40
OP 3	37.018141	-88.933559	457.09	16.00	473.09
OP 4	37.018869	-88.936809	460.16	16.00	476.16
OP 5	37.020959	-88.934353	460.29	16.00	476.29
OP 6	37.011607	-88.932428	473.59	16.00	489.59
OP 7	37.012110	-88.932313	472.59	16.00	488.59
OP 8	37.012421	-88.930593	468.74	16.00	484.74
OP 9	37.014078	-88.933142	470.26	16.00	486.26
OP 10	37.038117	-88.900931	462.68	16.00	478.68
OP 11	37.036139	-88.900330	464.55	16.00	480.55
OP 12	37.034418	-88.902304	465.01	16.00	481.01
OP 13	37.024478	-88.902358	435.09	16.00	451.09
OP 14	37.023129	-88.900276	459.28	16.00	475.28
OP 15	37.022276	-88.900749	441.74	16.00	457.74
OP 16	37.020452	-88.899150	443.08	16.00	459.08
OP 17	37.021548	-88.893190	473.39	16.00	489.39
OP 18	37.020482	-88.890342	455.35	16.00	471.35
OP 19	37.023223	-88.888421	469.18	16.00	485.18
OP 20	37.023617	-88.888400	468.22	16.00	484.22
OP 21	37.026624	-88.888013	466.30	16.00	482.30
OP 22	37.027472	-88.887949	471.05	16.00	487.05
OP 23	37.028465	-88.887461	468.91	16.00	484.91
OP 24	37.031459	-88.886254	458.87	16.00	474.87
OP 25	37.011508	-88.914846	455.12	16.00	471.12
OP 26	37.010099	-88.913934	472.36	16.00	488.36
OP 27	37.012254	-88.910388	465.32	16.00	481.32
OP 28	37.013997	-88.911059	446.09	16.00	462.09
OP 29	37.021321	-88.896259	448.33	16.00	464.33
OP 30	37.018387	-88.897455	455.43	16.00	471.43
OP 31	37.006758	-88.933691	477.67	16.00	493.67
OP 32	37.006955	-88.932248	482.92	16.00	498.92
OP 33	37.007070	-88.931229	478.67	16.00	494.67
OP 34	37.007764	-88.932318	479.71	16.00	495.71
OP 35	37.008437	-88.932608	478.17	16.00	494.17
OP 36	36.993735	-88.942986	481.27	16.00	497.27
OP 37	36.996539	-88.933851	488.27	16.00	504.27
OP 38	36.998814	-88.933478	483.80	16.00	499.80
OP 39	36.998319	-88.933521	487.33	16.00	503.33
OP 40	36.999444	-88.933577	481.91	16.00	497.91

1-ATCT map image



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	
101	SA tracking	SA tracking	0	0	-	-
102	SA tracking	SA tracking	0	0	-	-
103	SA tracking	SA tracking	0	0	-	-
104	SA tracking	SA tracking	0	0	-	-
105	SA tracking	SA tracking	0	0	-	-
106	SA tracking	SA tracking	0	0	-	-
107	SA tracking	SA tracking	0	0	-	-
108	SA tracking	SA tracking	0	0	-	-
109	SA tracking	SA tracking	0	0	-	-
110	SA tracking	SA tracking	0	0	-	-
111	SA tracking	SA tracking	0	0	-	-
112	SA tracking	SA tracking	0	0	-	-
113	SA tracking	SA tracking	0	0	-	-
114	SA tracking	SA tracking	0	0	-	-
115	SA tracking	SA tracking	0	0	-	-
116	SA tracking	SA tracking	0	0	-	-
117	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

101 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

102 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

103 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

104 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

105 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

106 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

107 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

108 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

109 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

110 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

111 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

113 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

114 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

115 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

116 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

117 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Ceredo Road	0	0
Route: Davis Road north segment	0	0
Route: Davis Road south segment	0	0
Route: Gage Road	0	0

Route: Hinkleville Road	0	0
Route: Randy Williams Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 2 5ft vehicles 0 deg resting

Created Aug 17, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 97877.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
201	SA tracking	SA tracking	0	0	-
202	SA tracking	SA tracking	2,490	228	-
203	SA tracking	SA tracking	189	177	-
204	SA tracking	SA tracking	1,466	0	-
205	SA tracking	SA tracking	9,897	409	-
206	SA tracking	SA tracking	55	0	-
207	SA tracking	SA tracking	145	0	-
208	SA tracking	SA tracking	0	0	-
209	SA tracking	SA tracking	1,530	3,429	-
210	SA tracking	SA tracking	1,823	631	-
211	SA tracking	SA tracking	161	0	-
212	SA tracking	SA tracking	2,105	156	-
213	SA tracking	SA tracking	0	0	-
214	SA tracking	SA tracking	2,548	125	-

Component Data

PV Array(s)

Total PV footprint area: 212.1 acres

Name: 201

Footprint area: 11.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027373	-88.889642	466.81	7.50	474.31
2	37.026487	-88.889642	471.28	7.50	478.78
3	37.026491	-88.888929	468.99	7.50	476.49
4	37.025596	-88.888902	469.68	7.50	477.18
5	37.025545	-88.892330	467.73	7.50	475.23
6	37.025532	-88.892598	467.38	7.50	474.88
7	37.026337	-88.892576	467.68	7.50	475.18
8	37.026346	-88.891697	472.53	7.50	480.03
9	37.027104	-88.891675	462.02	7.50	469.52
10	37.027099	-88.890946	472.32	7.50	479.82
11	37.027352	-88.890951	472.65	7.50	480.15

Name: 202

Footprint area: 22.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024872	-88.882934	438.15	7.50	445.65
2	37.024894	-88.878122	428.53	7.50	436.03
3	37.023973	-88.878074	430.21	7.50	437.71
4	37.023960	-88.878530	431.84	7.50	439.34
5	37.023061	-88.878535	432.59	7.50	440.09
6	37.023018	-88.883626	447.70	7.50	455.20
7	37.023866	-88.883562	438.99	7.50	446.49
8	37.023861	-88.882993	438.61	7.50	446.11

Name: 203

Footprint area: 19.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023052	-88.879383	444.26	7.50	451.76
2	37.022337	-88.879350	439.16	7.50	446.66
3	37.022337	-88.879511	440.91	7.50	448.41
4	37.022041	-88.879495	440.11	7.50	447.61
5	37.022041	-88.880155	444.02	7.50	451.52
6	37.021532	-88.880150	441.43	7.50	448.93
7	37.021519	-88.880488	446.53	7.50	454.03
8	37.021296	-88.880488	444.14	7.50	451.64
9	37.021163	-88.884313	462.60	7.50	470.10
10	37.022988	-88.884345	443.85	7.50	451.35
11	37.023009	-88.883626	447.76	7.50	455.26

Name: 204

Footprint area: 21.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020662	-88.883690	466.67	7.50	474.17
2	37.020666	-88.880305	448.31	7.50	455.81
3	37.018075	-88.880256	468.65	7.50	476.15
4	37.018101	-88.883679	471.87	7.50	479.37

Name: 205

Footprint area: 4.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022367	-88.878476	436.15	7.50	443.65
2	37.022375	-88.877666	431.55	7.50	439.05
3	37.021789	-88.877639	449.35	7.50	456.85
4	37.021793	-88.877505	448.74	7.50	456.24
5	37.020868	-88.877468	454.54	7.50	462.04
6	37.020851	-88.879238	455.72	7.50	463.22
7	37.021746	-88.879238	437.99	7.50	445.49
8	37.021746	-88.878524	441.10	7.50	448.60

Name: 206

Footprint area: 23.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017445	-88.880246	472.86	7.50	480.36
2	37.017407	-88.881147	475.42	7.50	482.92
3	37.017158	-88.881147	475.73	7.50	483.23
4	37.017154	-88.881206	475.76	7.50	483.26
5	37.014456	-88.881115	478.37	7.50	485.87
6	37.014486	-88.883625	464.20	7.50	471.70
7	37.018096	-88.883679	471.87	7.50	479.37
8	37.018071	-88.880251	468.66	7.50	476.16

Name: 207

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

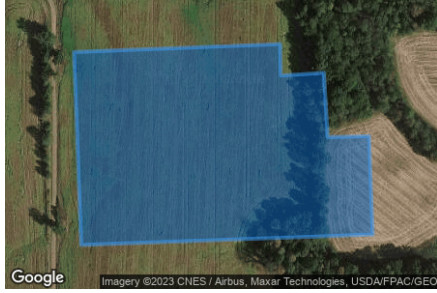
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020274	-88.879793	448.99	7.50	456.49
2	37.020345	-88.877505	457.82	7.50	465.32
3	37.020067	-88.877497	458.22	7.50	465.72
4	37.020090	-88.877020	455.99	7.50	463.49
5	37.019521	-88.876977	454.08	7.50	461.58
6	37.019529	-88.876518	444.63	7.50	452.13
7	37.018658	-88.876478	445.45	7.50	452.95
8	37.018566	-88.879713	461.78	7.50	469.28

Name: 208

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

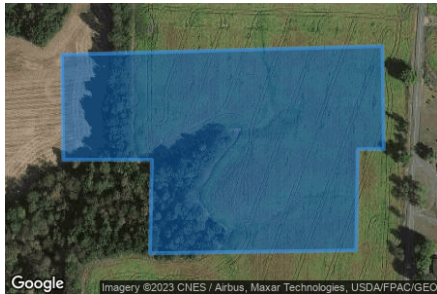
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025600	-88.889051	469.88	7.50	477.38
2	37.024692	-88.889035	470.58	7.50	478.08
3	37.024692	-88.889325	470.55	7.50	478.05
4	37.023801	-88.889341	470.64	7.50	478.14
5	37.023776	-88.891632	469.22	7.50	476.72
6	37.024598	-88.891610	462.63	7.50	470.13
7	37.024598	-88.892592	452.03	7.50	459.53
8	37.025523	-88.892608	467.43	7.50	474.93

Name: 209

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023690	-88.892431	464.64	7.50	472.14
2	37.023682	-88.889336	470.64	7.50	478.14
3	37.021990	-88.889277	460.59	7.50	468.09
4	37.021994	-88.889513	462.45	7.50	469.95
5	37.021322	-88.889481	459.56	7.50	467.06
6	37.021343	-88.891422	459.60	7.50	467.10
7	37.022011	-88.891396	470.27	7.50	477.77
8	37.022028	-88.892436	471.50	7.50	479.00

Name: 210

Footprint area: 12.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029339	-88.886016	453.14	7.50	460.64
2	37.029335	-88.884342	436.81	7.50	444.31
3	37.028380	-88.884412	447.41	7.50	454.91
4	37.028384	-88.884755	445.97	7.50	453.47
5	37.026716	-88.884747	450.76	7.50	458.26
6	37.026673	-88.887019	465.32	7.50	472.82
7	37.027515	-88.886979	468.64	7.50	476.14
8	37.027515	-88.886461	468.62	7.50	476.12
9	37.028202	-88.886410	462.24	7.50	469.74
10	37.028202	-88.886238	462.22	7.50	469.72
11	37.029039	-88.886236	453.07	7.50	460.57
12	37.029039	-88.886048	457.04	7.50	464.54

Name: 211

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.026592	-88.887258	468.21	7.50	475.71
2	37.026641	-88.884763	449.31	7.50	456.81
3	37.025776	-88.884728	455.41	7.50	462.91
4	37.025767	-88.884822	455.51	7.50	463.01
5	37.024879	-88.884798	450.01	7.50	457.51
6	37.024836	-88.887928	458.50	7.50	466.00
7	37.025727	-88.887885	471.11	7.50	478.61
8	37.025727	-88.887432	468.38	7.50	475.88
9	37.026320	-88.887381	468.45	7.50	475.95
10	37.026311	-88.887279	468.43	7.50	475.93

Name: 212

Footprint area: 10.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024842	-88.887381	460.51	7.50	468.01
2	37.023960	-88.887397	460.65	7.50	468.15
3	37.023960	-88.887306	460.27	7.50	467.77
4	37.023133	-88.887311	463.53	7.50	471.03
5	37.023121	-88.884972	443.33	7.50	450.83
6	37.023990	-88.884972	449.09	7.50	456.59
7	37.023977	-88.884806	449.89	7.50	457.39
8	37.024877	-88.884806	450.18	7.50	457.68

Name: 213

Footprint area: 24.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029947	-88.882204	432.03	7.50	439.53
2	37.029934	-88.880933	421.04	7.50	428.54
3	37.029939	-88.880675	420.99	7.50	428.49
4	37.029005	-88.880654	421.83	7.50	429.33
5	37.028089	-88.880633	425.76	7.50	433.26
6	37.028110	-88.880241	422.63	7.50	430.13
7	37.027236	-88.880257	425.13	7.50	432.63
8	37.027258	-88.881325	439.20	7.50	446.70
9	37.026354	-88.881367	429.90	7.50	437.40
10	37.026367	-88.882151	437.75	7.50	445.25
11	37.025695	-88.882183	428.80	7.50	436.30
12	37.025695	-88.883143	439.54	7.50	447.04
13	37.025399	-88.883165	435.79	7.50	443.29
14	37.025416	-88.884093	448.93	7.50	456.43
15	37.026131	-88.884066	452.06	7.50	459.56
16	37.026136	-88.883964	451.39	7.50	458.89
17	37.028114	-88.883953	452.48	7.50	459.98
18	37.028119	-88.882322	445.84	7.50	453.34

Name: 214

Footprint area: 9.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

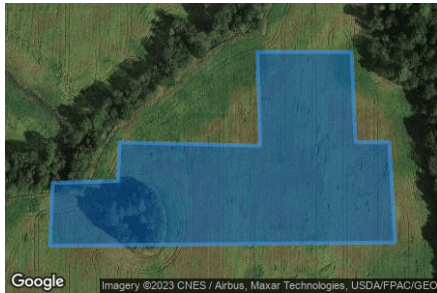
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024855	-88.882161	443.07	7.50	450.57
2	37.025412	-88.882135	436.26	7.50	443.76
3	37.025429	-88.881410	437.18	7.50	444.68
4	37.025772	-88.881389	430.47	7.50	437.97
5	37.025742	-88.879828	436.65	7.50	444.15
6	37.026572	-88.879860	426.32	7.50	433.82
7	37.026572	-88.878814	426.25	7.50	433.75
8	37.025772	-88.878771	429.51	7.50	437.01
9	37.025772	-88.878396	426.19	7.50	433.69
10	37.024885	-88.878331	429.53	7.50	437.03

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14
Description:
Threshold height : 50 ft
Direction: 142.6 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23
Description:
Threshold height : 50 ft
Direction: 224.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32
Description:
Threshold height : 50 ft
Direction: 323.3 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Bondurant Road

Route type: Two-way

View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.030561	-88.887694	447.45	5.00	452.45
2	37.030514	-88.884336	433.31	5.00	438.31
3	37.030416	-88.884116	433.62	5.00	438.62
4	37.030125	-88.884073	431.70	5.00	436.70
5	37.027504	-88.884266	455.15	5.00	460.15
6	37.026167	-88.884363	451.34	5.00	456.34
7	37.024223	-88.884497	451.07	5.00	456.07
8	37.022763	-88.884615	448.20	5.00	453.20
9	37.021422	-88.884711	464.10	5.00	469.10
10	37.020942	-88.884744	466.66	5.00	471.66
11	37.020857	-88.884620	467.69	5.00	472.69
12	37.020844	-88.884524	468.62	5.00	473.62
13	37.020861	-88.882260	453.42	5.00	458.42
14	37.020844	-88.881391	448.56	5.00	453.56
15	37.020869	-88.881090	445.24	5.00	450.24
16	37.020810	-88.880731	444.21	5.00	449.21
17	37.020767	-88.880114	446.66	5.00	451.66
18	37.020681	-88.880018	446.23	5.00	451.23
19	37.019079	-88.880001	457.75	5.00	462.75
20	37.017400	-88.880018	470.81	5.00	475.81
21	37.017267	-88.880098	471.35	5.00	476.35
22	37.017220	-88.880296	473.26	5.00	478.26
23	37.017250	-88.880613	472.79	5.00	477.79
24	37.017203	-88.880870	474.27	5.00	479.27
25	37.017036	-88.880903	475.67	5.00	480.67
26	37.013177	-88.880897	477.52	5.00	482.52

Name: Buchanan Lane

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.013142	-88.880071	476.30	5.00	481.30
2	37.013207	-88.881541	476.30	5.00	481.30
3	37.013305	-88.883703	462.73	5.00	467.73
4	37.013421	-88.885586	445.94	5.00	450.94
5	37.013511	-88.887200	457.92	5.00	462.92
6	37.013567	-88.888719	444.71	5.00	449.71
7	37.013571	-88.890677	456.15	5.00	461.15
8	37.013541	-88.892034	456.70	5.00	461.70

9	37.013502	-88.893171	458.58	5.00	463.58
10	37.013519	-88.893611	452.79	5.00	457.79
11	37.013678	-88.894158	436.73	5.00	441.73
12	37.014530	-88.896062	407.34	5.00	412.34
13	37.014787	-88.896599	406.39	5.00	411.39
14	37.014873	-88.897103	408.73	5.00	413.73
15	37.014954	-88.898015	406.00	5.00	411.00
16	37.015036	-88.898257	408.12	5.00	413.12

Name: County Line Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.033389	-88.869601	432.04	5.00	437.04
2	37.032978	-88.869671	438.10	5.00	443.10
3	37.032425	-88.869494	445.45	5.00	450.45
4	37.031162	-88.868673	447.90	5.00	452.90
5	37.029230	-88.867439	459.23	5.00	464.23
6	37.027713	-88.866397	471.51	5.00	476.51
7	37.027422	-88.865839	467.59	5.00	472.59
8	37.027277	-88.865072	465.66	5.00	470.66
9	37.026921	-88.864160	467.57	5.00	472.57
10	37.026441	-88.863763	474.72	5.00	479.72
11	37.025829	-88.863688	474.78	5.00	479.78
12	37.023773	-88.863742	478.06	5.00	483.06
13	37.021786	-88.863753	477.68	5.00	482.68
14	37.019983	-88.863779	474.74	5.00	479.74
15	37.016882	-88.863801	461.36	5.00	466.36
16	37.013627	-88.863833	471.01	5.00	476.01

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.015074	-88.898246	407.72	5.00	412.72
2	37.015267	-88.898160	410.58	5.00	415.58
3	37.017057	-88.898187	443.60	5.00	448.60
4	37.018308	-88.898106	448.37	5.00	453.37
5	37.019627	-88.898117	436.71	5.00	441.71
6	37.020338	-88.898112	446.63	5.00	451.63
7	37.020595	-88.897978	456.15	5.00	461.15
8	37.020728	-88.897666	459.19	5.00	464.19
9	37.020814	-88.890746	454.01	5.00	459.01
10	37.020848	-88.889754	455.16	5.00	460.16
11	37.020899	-88.889303	452.82	5.00	457.82
12	37.021238	-88.888939	455.41	5.00	460.41
13	37.022488	-88.888842	461.33	5.00	466.33
14	37.024934	-88.888676	469.78	5.00	474.78
15	37.026150	-88.888595	468.73	5.00	473.73
16	37.027713	-88.888477	453.57	5.00	458.57
17	37.029705	-88.888332	443.21	5.00	448.21
18	37.030210	-88.888236	446.62	5.00	451.62
19	37.030454	-88.888059	446.87	5.00	451.87
20	37.030566	-88.887780	448.49	5.00	453.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.021557	-88.893150	473.33	16.00	489.33
OP 3	37.020504	-88.890377	455.38	16.00	471.38
OP 4	37.021232	-88.895977	456.56	16.00	472.56
OP 5	37.023223	-88.888435	469.28	16.00	485.28
OP 6	37.023634	-88.888413	468.20	16.00	484.20
OP 7	37.026817	-88.888081	464.36	16.00	480.36
OP 8	37.027497	-88.887957	470.88	16.00	486.88
OP 9	37.028444	-88.887437	469.17	16.00	485.17
OP 10	37.029324	-88.883419	447.72	16.00	463.72
OP 11	37.031431	-88.886256	458.82	16.00	474.82
OP 12	37.033009	-88.886310	449.93	16.00	465.93
OP 13	37.009645	-88.880298	483.65	16.00	499.65
OP 14	37.011607	-88.880080	477.28	16.00	493.28
OP 15	37.011941	-88.880850	478.82	16.00	494.82
OP 16	37.013639	-88.881269	478.83	16.00	494.83
OP 17	37.012907	-88.883900	469.84	16.00	485.84
OP 18	37.012965	-88.884903	464.68	16.00	480.68
OP 19	37.013860	-88.887392	460.59	16.00	476.59
OP 20	37.018394	-88.897432	455.76	16.00	471.76
OP 21	37.020501	-88.899170	443.86	16.00	459.86
OP 22	37.021152	-88.869108	475.25	16.00	491.25
OP 23	37.020604	-88.864173	477.24	16.00	493.24
OP 24	37.019099	-88.863537	476.37	16.00	492.37
OP 25	37.017949	-88.864264	473.20	16.00	489.20

1-ATCT map image



PV & Receptor Analysis Results

Results for each PV array and receptor

201 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

202 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
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FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	565	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	23	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	56	0
OP: OP 7	287	81
OP: OP 8	429	29
OP: OP 9	272	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	40	0
Route: Buchanan Lane	0	0
Route: County Line Road	818	118
Route: Gage Road	0	0

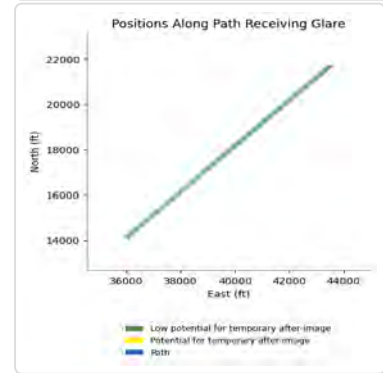
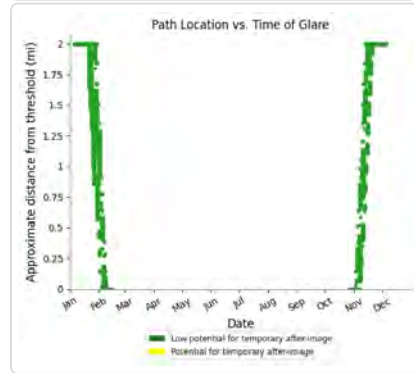
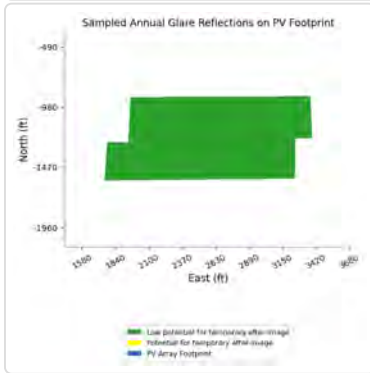
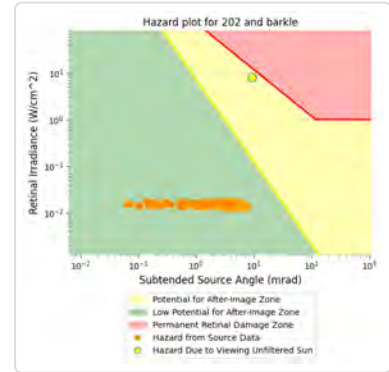
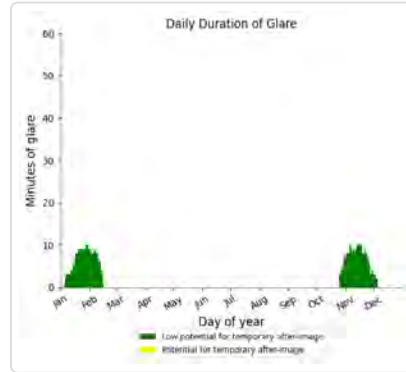
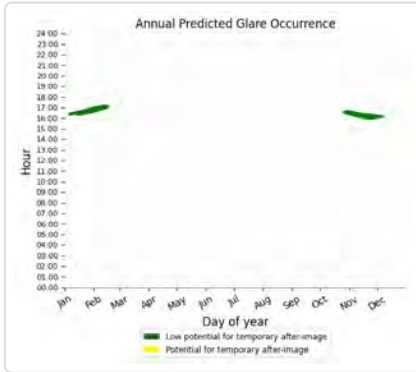
202: Barkley Regional Airport Runway 14

No glare found

202: Barkley Regional Airport Runway 23

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

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



202: Barkley Regional Airport Runway 32

No glare found

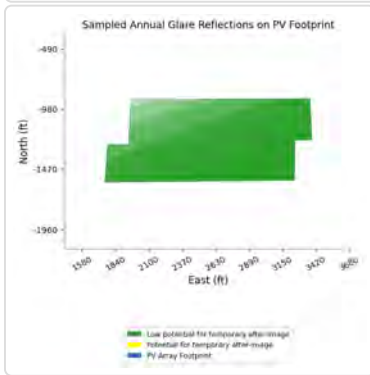
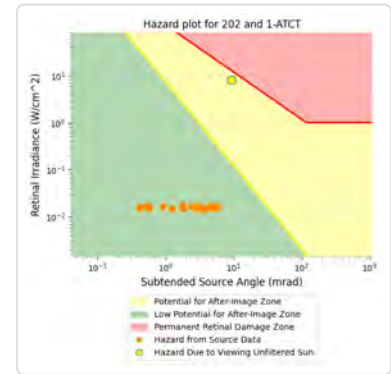
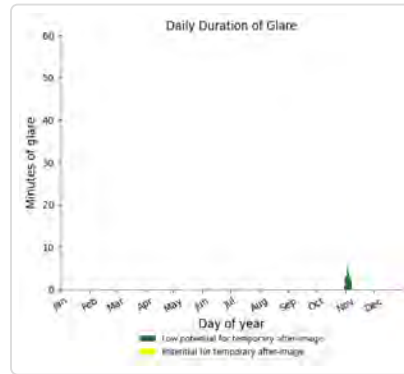
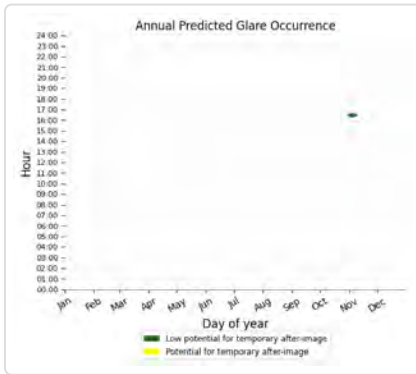
202: Barkley Regional Airport Runway 5

No glare found

202: 1-ATCT

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

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



202: OP 2

No glare found

202: OP 3

No glare found

202: OP 4

No glare found

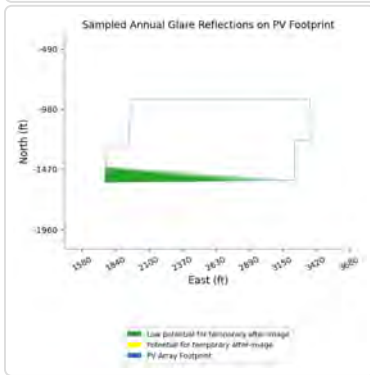
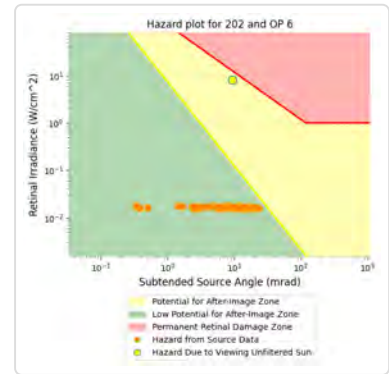
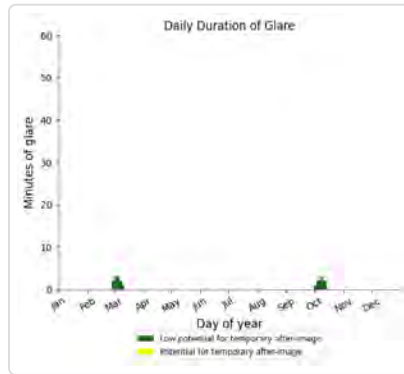
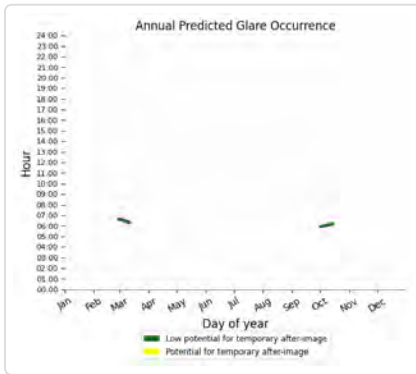
202: OP 5

No glare found

202: OP 6

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

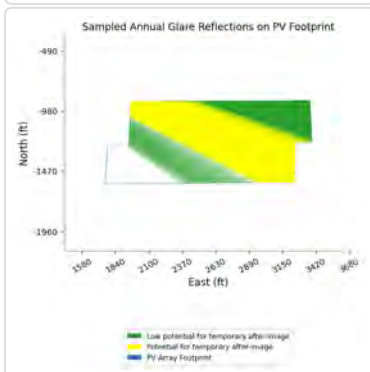
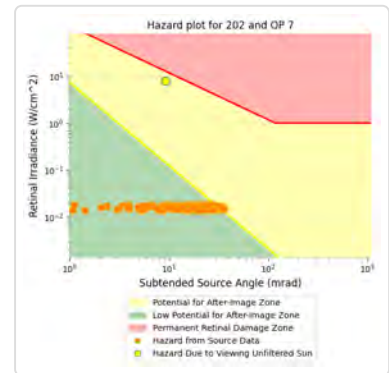
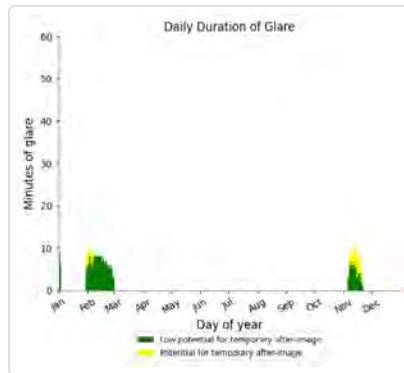
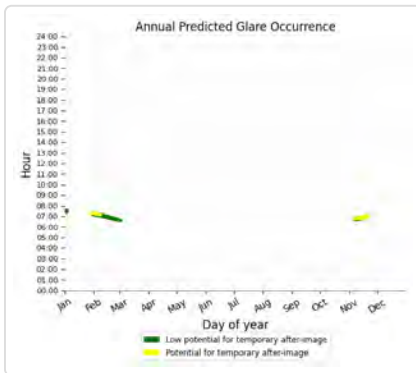
- 56 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



202: OP 7

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

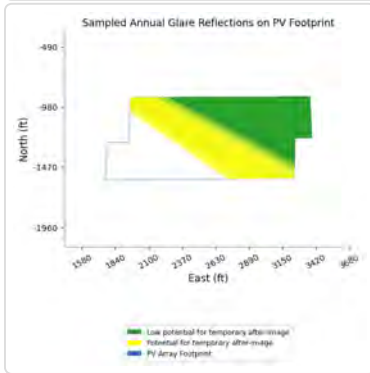
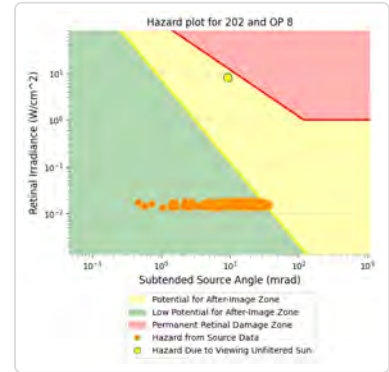
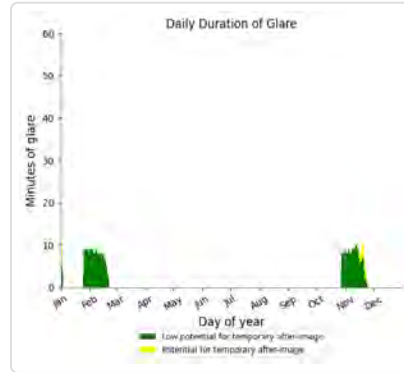
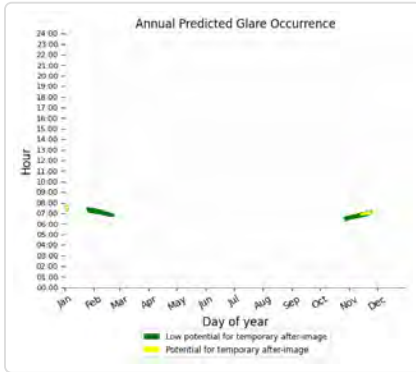
- 287 minutes of "green" glare with low potential to cause temporary after-image.
- 81 minutes of "yellow" glare with potential to cause temporary after-image.



202: OP 8

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

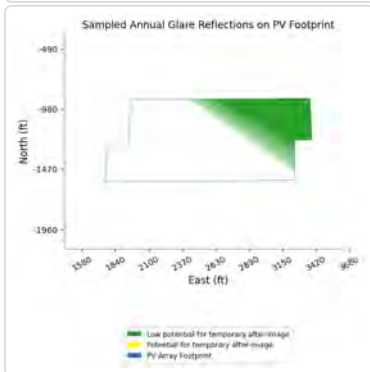
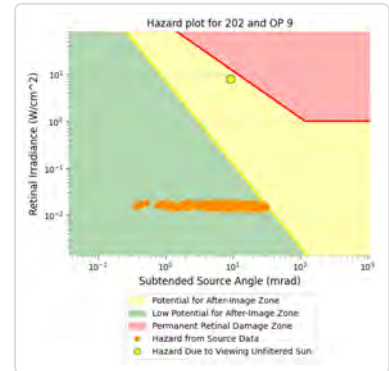
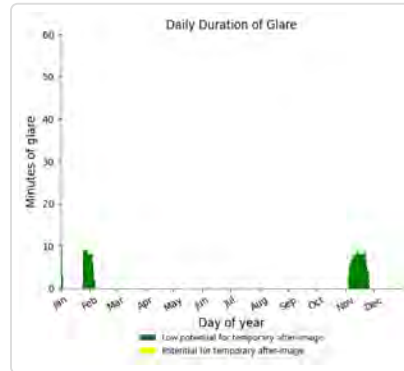
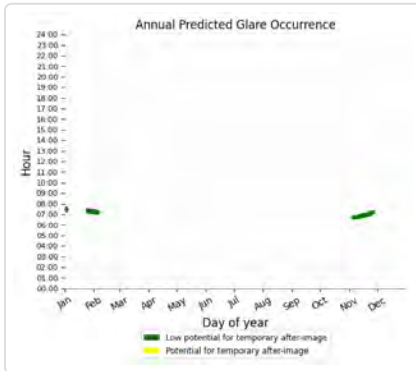
- 429 minutes of "green" glare with low potential to cause temporary after-image.
- 29 minutes of "yellow" glare with potential to cause temporary after-image.



202: OP 9

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

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



202: OP 10

No glare found

202: OP 11

No glare found

202: OP 12

No glare found

202: OP 13

No glare found

202: OP 14

No glare found

202: OP 15

No glare found

202: OP 16

No glare found

202: OP 17

No glare found

202: OP 18

No glare found

202: OP 19

No glare found

202: OP 20

No glare found

202: OP 21

No glare found

202: OP 22

No glare found

202: OP 23

No glare found

202: OP 24

No glare found

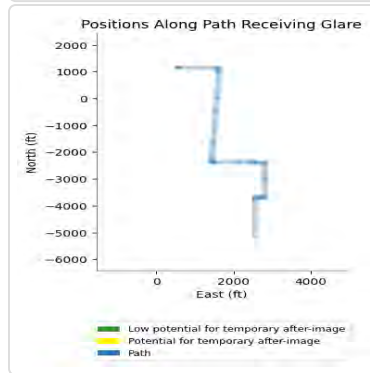
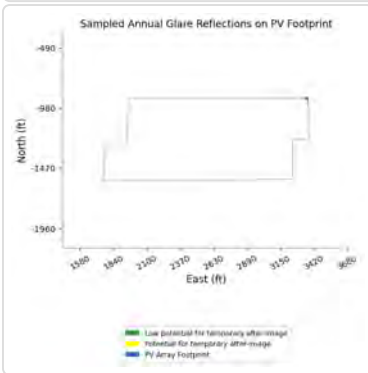
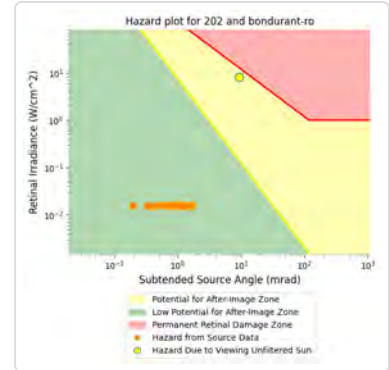
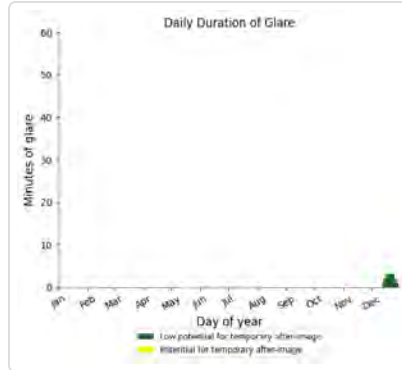
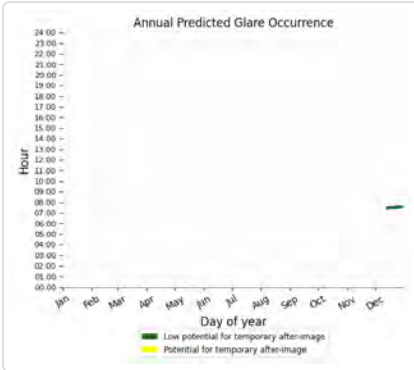
202: OP 25

No glare found

202: Bondurant Road

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

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



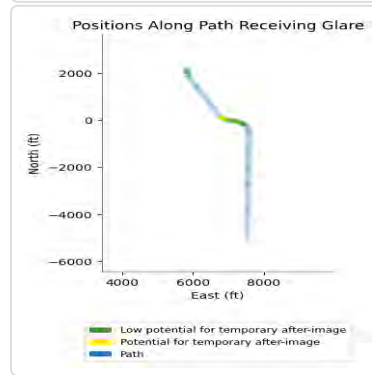
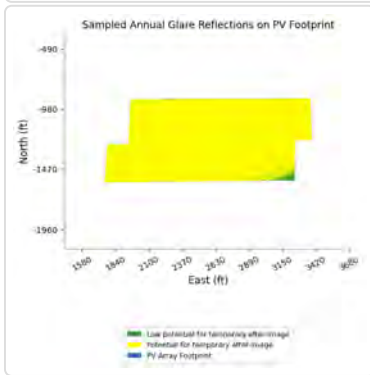
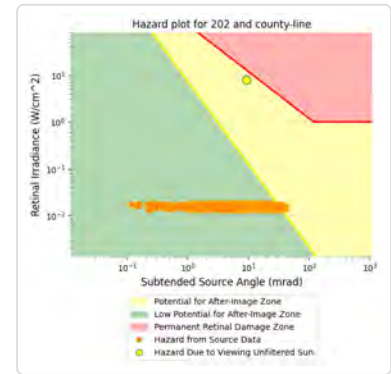
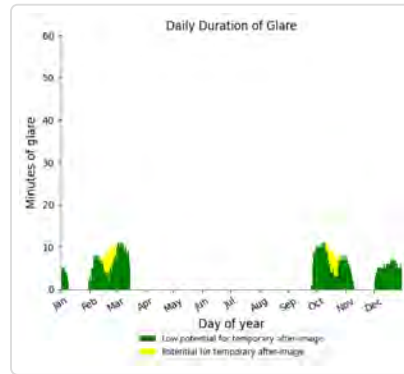
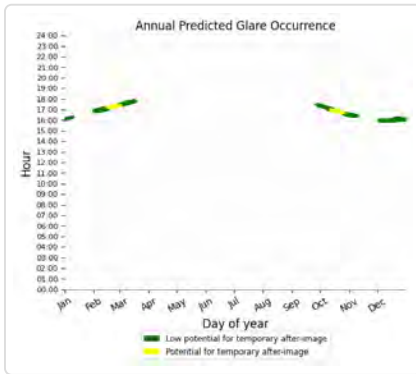
202: Buchanan Lane

No glare found

202: County Line Road

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

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



202: Gage Road

No glare found

203 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0

OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	189	177
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

203: Barkley Regional Airport Runway 14

No glare found

203: Barkley Regional Airport Runway 23

No glare found

203: Barkley Regional Airport Runway 32

No glare found

203: Barkley Regional Airport Runway 5

No glare found

203: 1-ATCT

No glare found

203: OP 2

No glare found

203: OP 3

No glare found

203: OP 4

No glare found

203: OP 5

No glare found

203: OP 6

No glare found

203: OP 7

No glare found

203: OP 8

No glare found

203: OP 9

No glare found

203: OP 10

No glare found

203: OP 11

No glare found

203: OP 12

No glare found

203: OP 13

No glare found

203: OP 14

No glare found

203: OP 15

No glare found

203: OP 16

No glare found

203: OP 17

No glare found

203: OP 18

No glare found

203: OP 19

No glare found

203: OP 20

No glare found

203: OP 21

No glare found

203: OP 22

No glare found

203: OP 23

No glare found

203: OP 24

No glare found

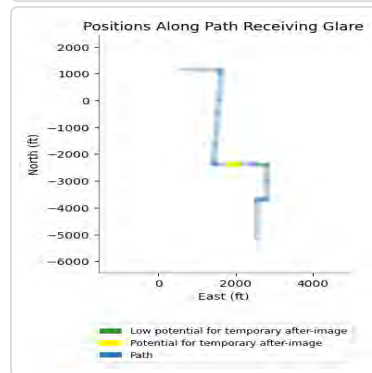
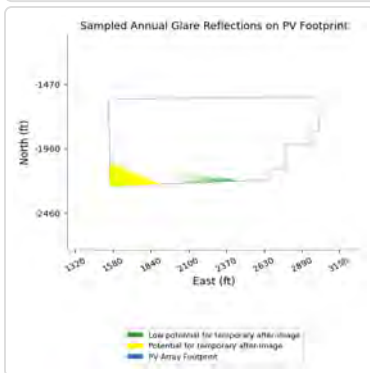
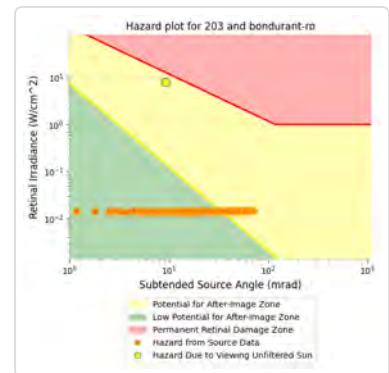
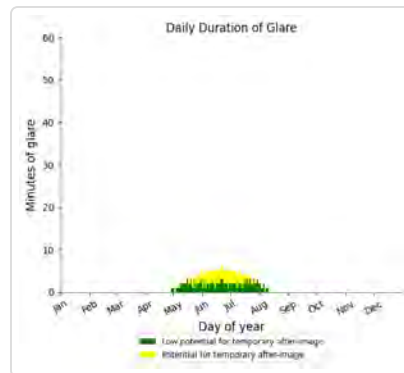
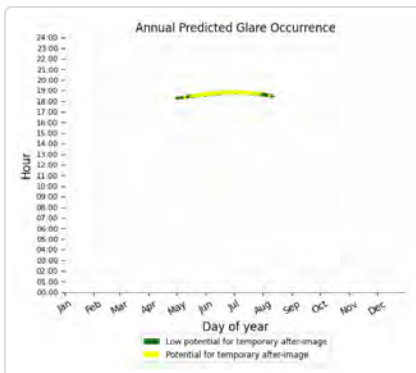
203: OP 25

No glare found

203: Bondurant Road

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

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



203: Buchanan Lane

No glare found

203: County Line Road

No glare found

203: Gage Road

No glare found

204 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	682	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	784	0
Route: Gage Road	0	0

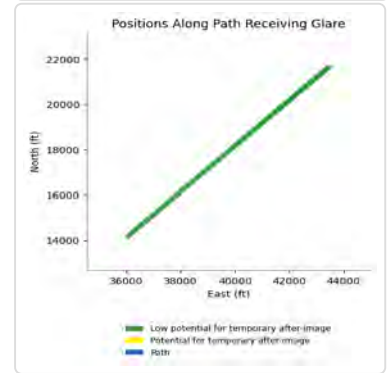
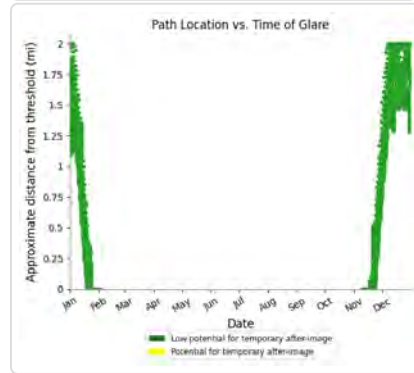
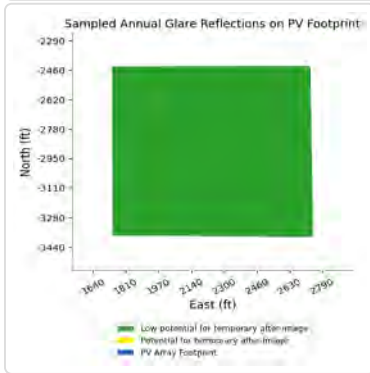
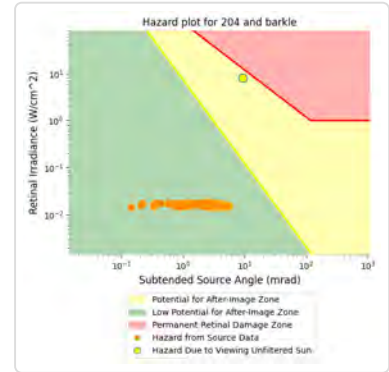
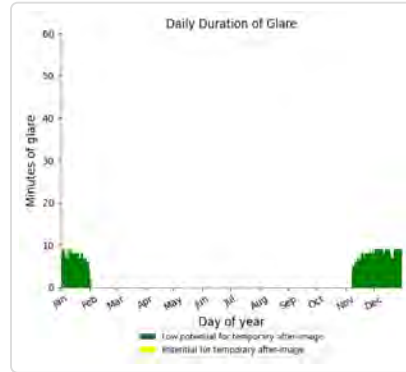
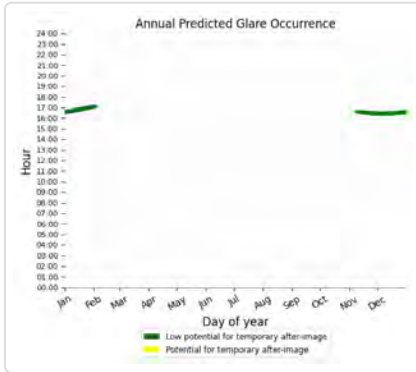
204: Barkley Regional Airport Runway 14

No glare found

204: Barkley Regional Airport Runway 23

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

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



204: Barkley Regional Airport Runway 32

No glare found

204: Barkley Regional Airport Runway 5

No glare found

204: 1-ATCT

No glare found

204: OP 2

No glare found

204: OP 3

No glare found

204: OP 4

No glare found

204: OP 5

No glare found

204: OP 6
No glare found

204: OP 7
No glare found

204: OP 8
No glare found

204: OP 9
No glare found

204: OP 10
No glare found

204: OP 11
No glare found

204: OP 12
No glare found

204: OP 13
No glare found

204: OP 14
No glare found

204: OP 15
No glare found

204: OP 16
No glare found

204: OP 17
No glare found

204: OP 18
No glare found

204: OP 19
No glare found

204: OP 20
No glare found

204: OP 21

No glare found

204: OP 22

No glare found

204: OP 23

No glare found

204: OP 24

No glare found

204: OP 25

No glare found

204: Bondurant Road

No glare found

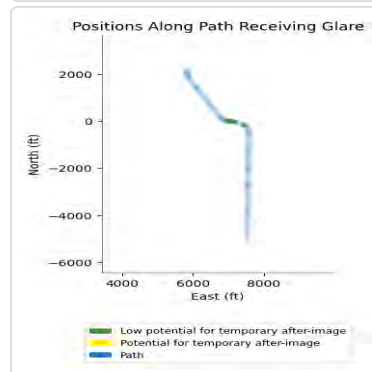
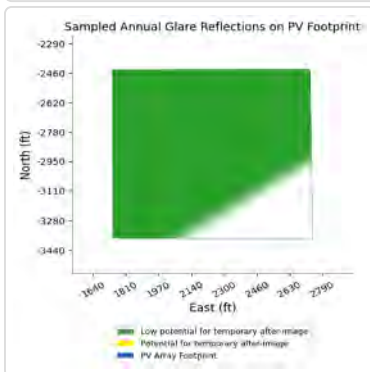
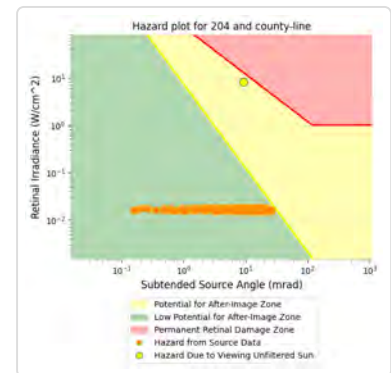
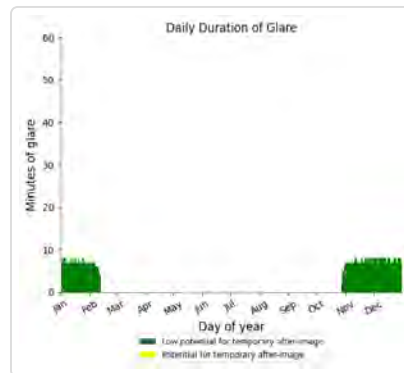
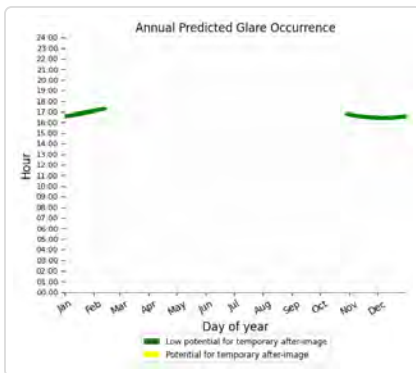
204: Buchanan Lane

No glare found

204: County Line Road

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

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



204: Gage Road

No glare found

205 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	476	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	176	0
OP: OP 3	0	0
OP: OP 4	63	0
OP: OP 5	514	0
OP: OP 6	556	0
OP: OP 7	429	0
OP: OP 8	371	0
OP: OP 9	497	0
OP: OP 10	1575	0
OP: OP 11	81	0
OP: OP 12	798	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	2414	409
Route: Buchanan Lane	0	0
Route: County Line Road	1111	0
Route: Gage Road	836	0

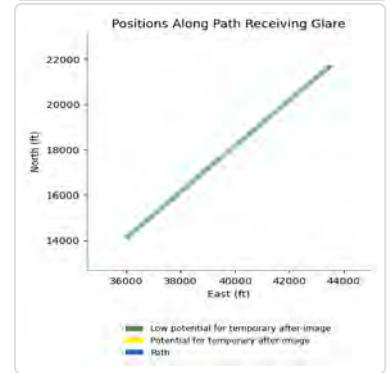
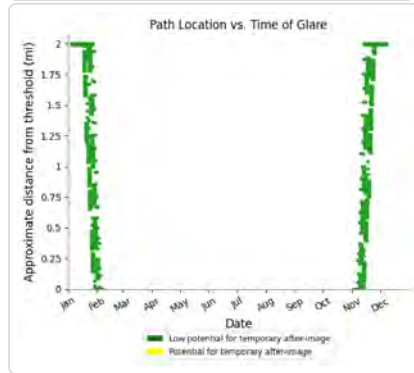
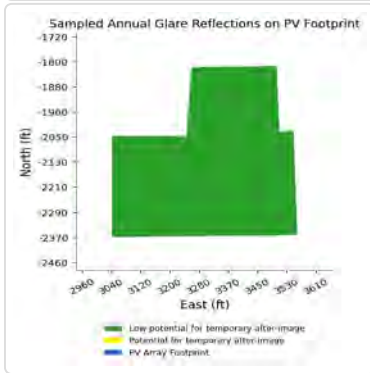
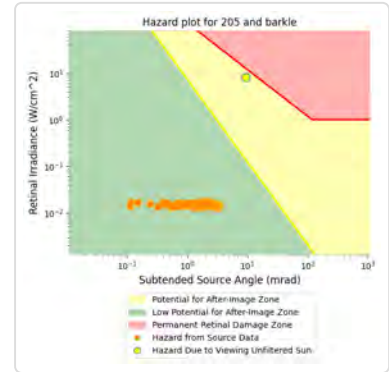
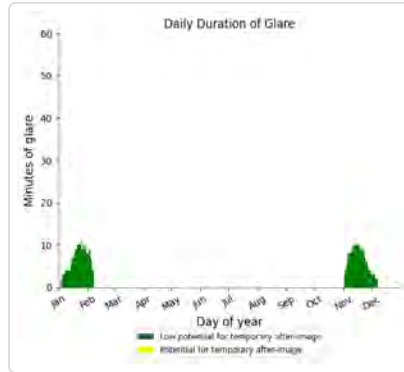
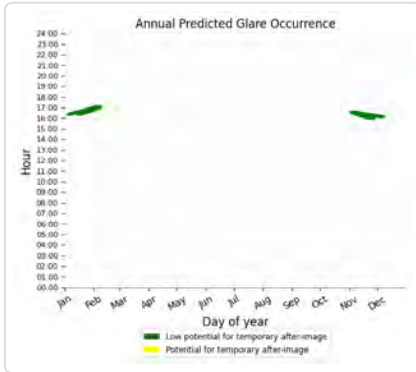
205: Barkley Regional Airport Runway 14

No glare found

205: Barkley Regional Airport Runway 23

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

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



205: Barkley Regional Airport Runway 32

No glare found

205: Barkley Regional Airport Runway 5

No glare found

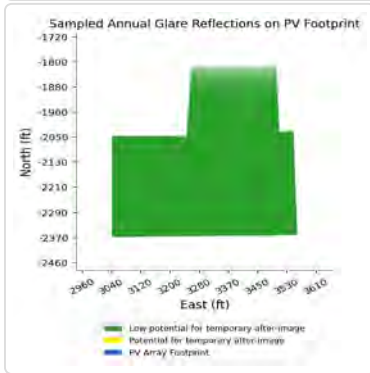
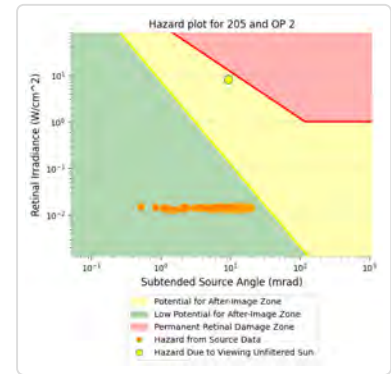
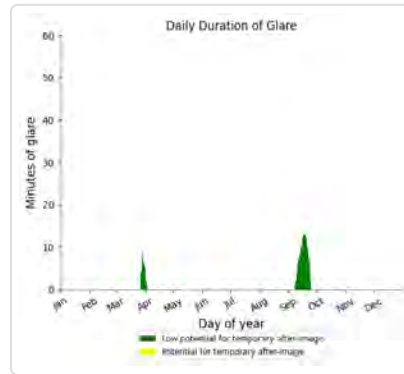
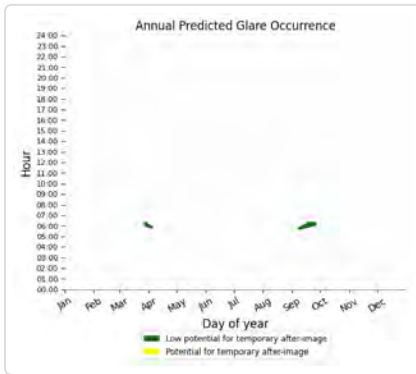
205: 1-ATCT

No glare found

205: OP 2

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

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



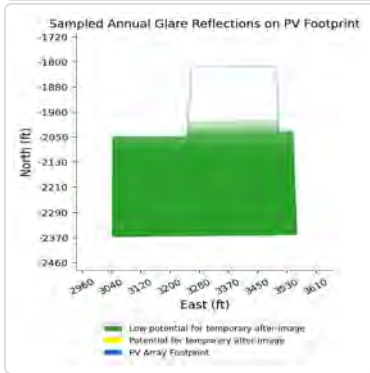
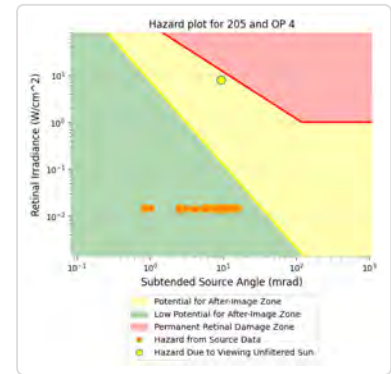
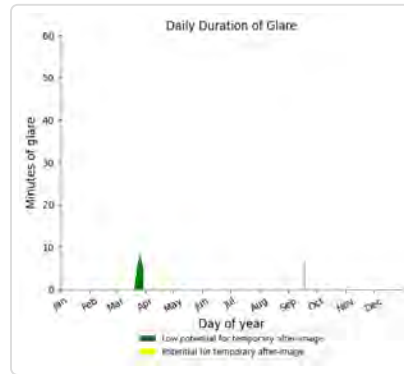
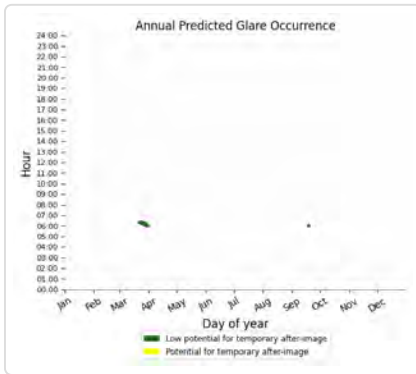
205: OP 3

No glare found

205: OP 4

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

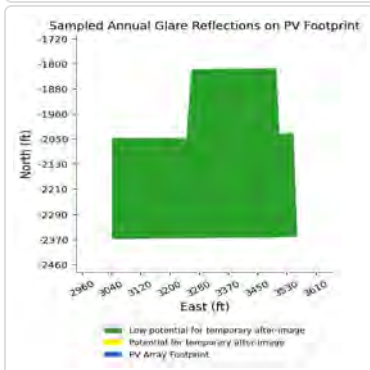
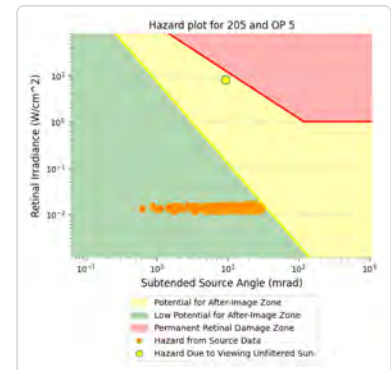
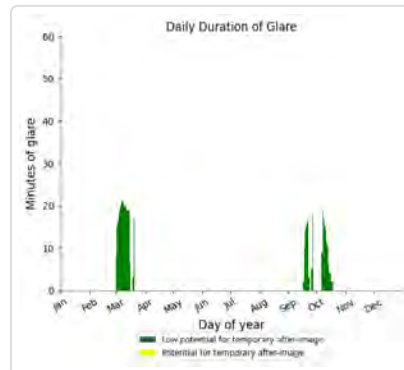
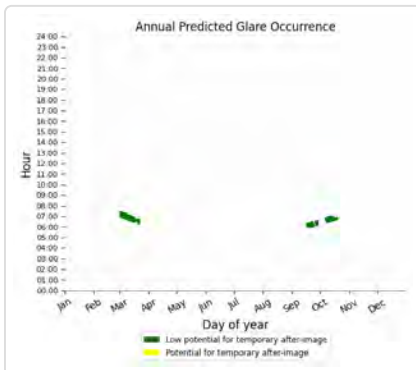
- 63 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 5

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

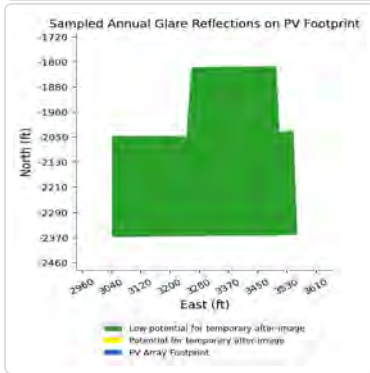
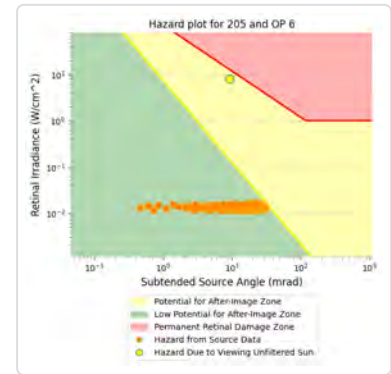
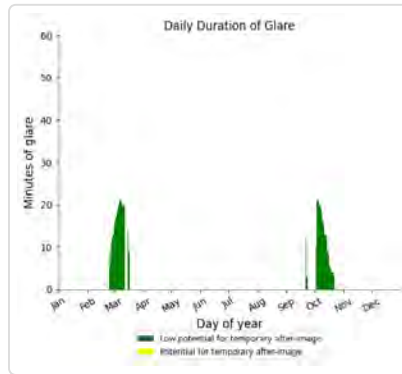
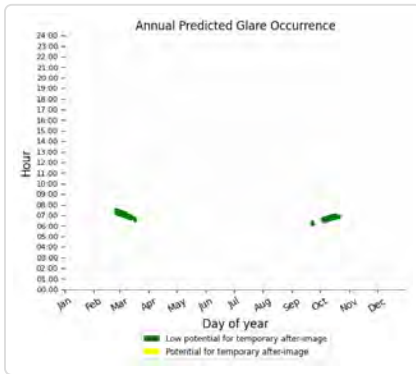
- 514 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 6

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

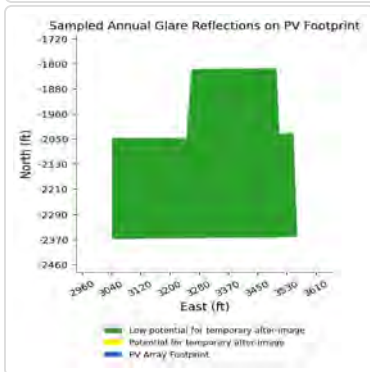
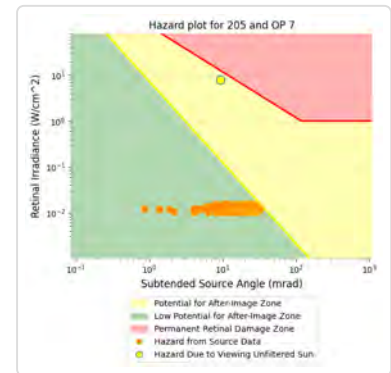
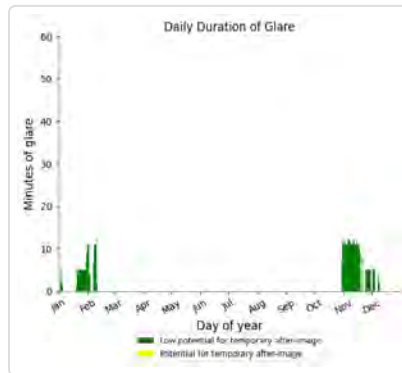
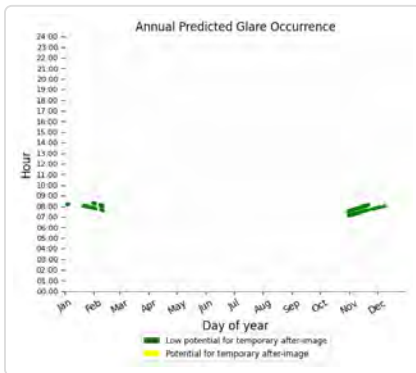
- 556 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 7

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

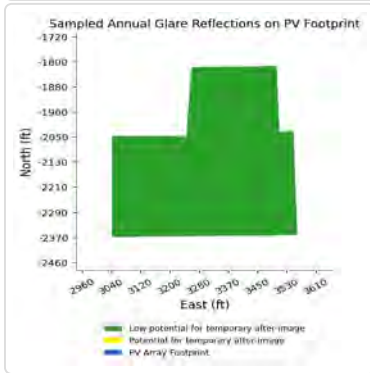
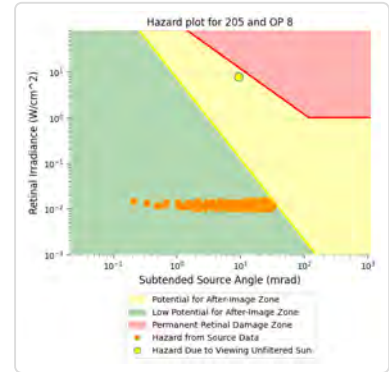
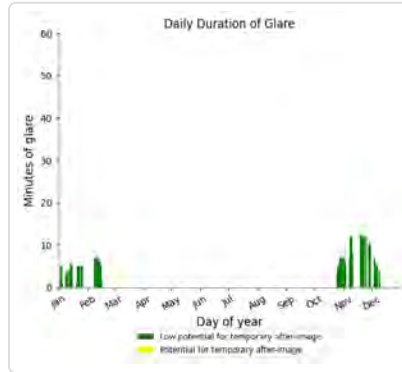
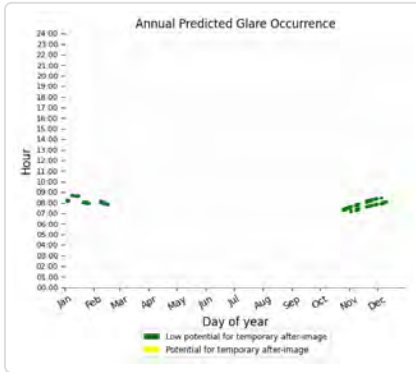
- 429 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 8

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

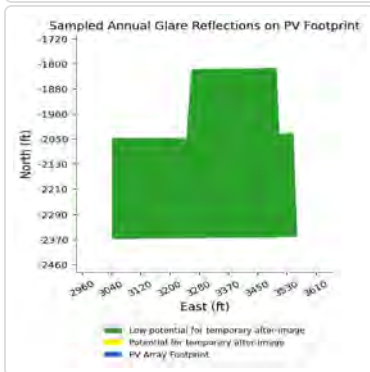
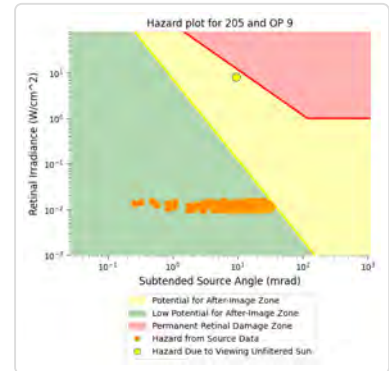
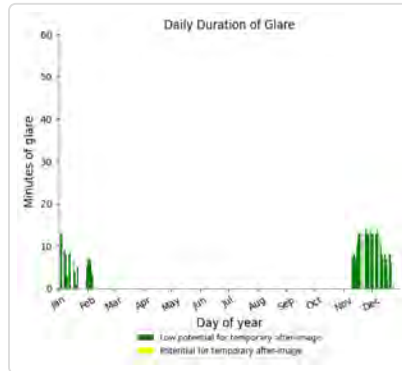
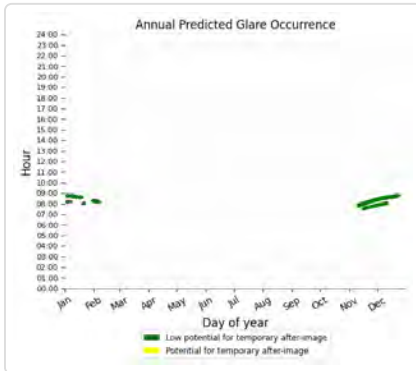
- 371 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 9

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

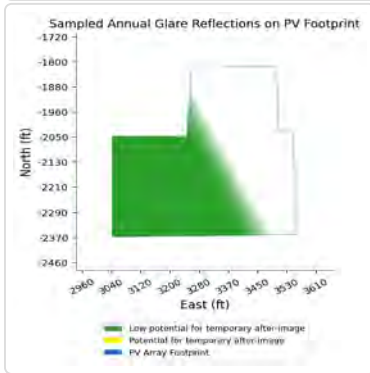
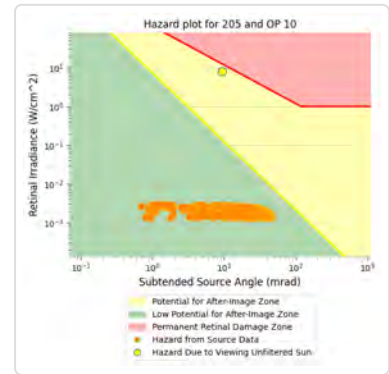
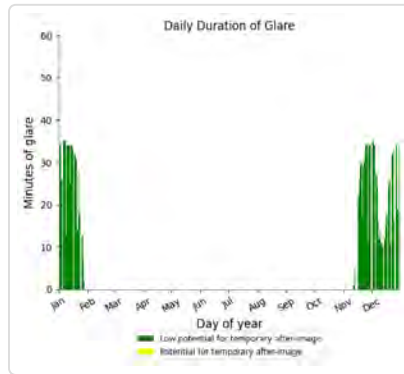
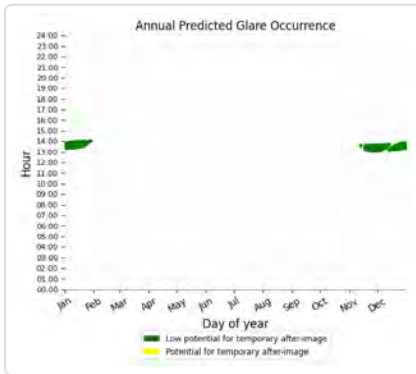
- 497 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 10

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

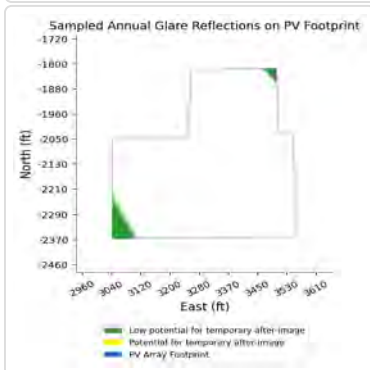
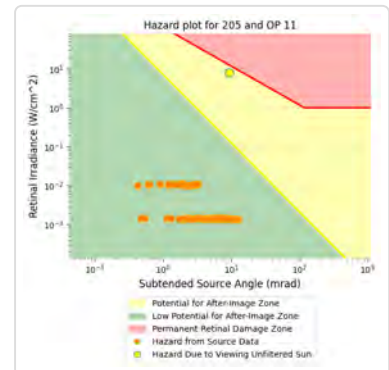
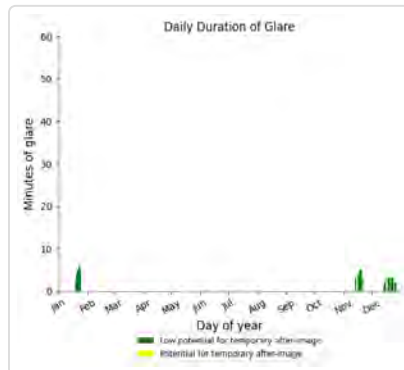
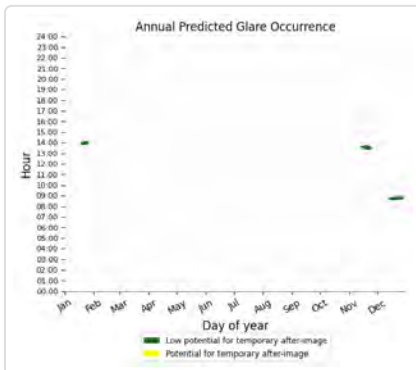
- 1,575 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 11

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

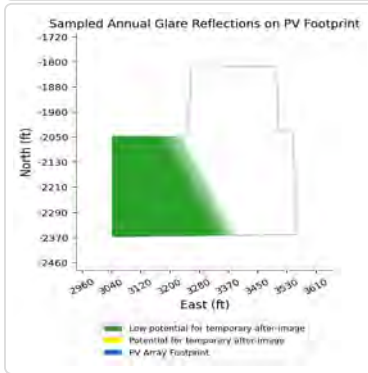
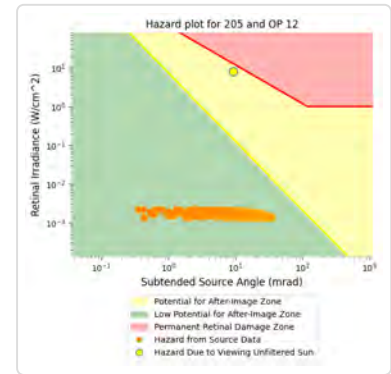
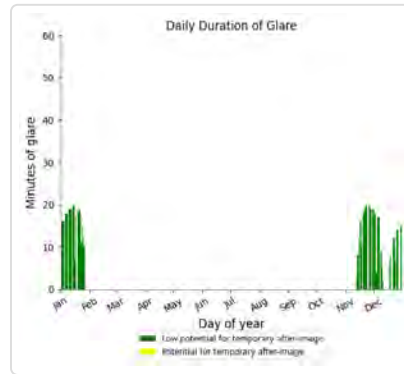
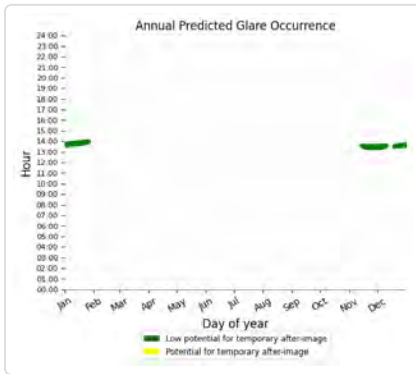
- 81 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 12

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

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



205: OP 13

No glare found

205: OP 14

No glare found

205: OP 15

No glare found

205: OP 16

No glare found

205: OP 17

No glare found

205: OP 18

No glare found

205: OP 19

No glare found

205: OP 20

No glare found

205: OP 21

No glare found

205: OP 22

No glare found

205: OP 23

No glare found

205: OP 24

No glare found

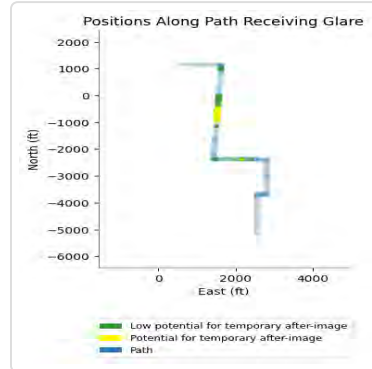
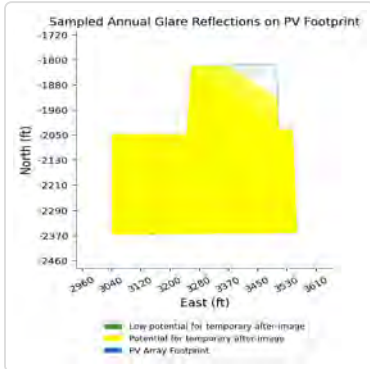
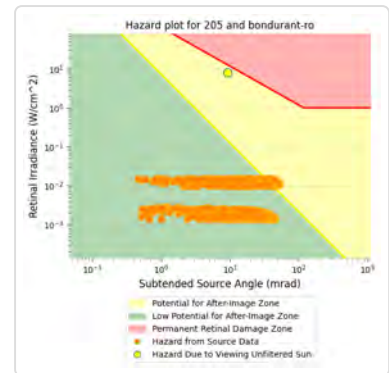
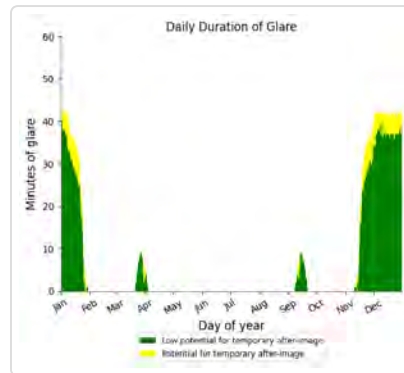
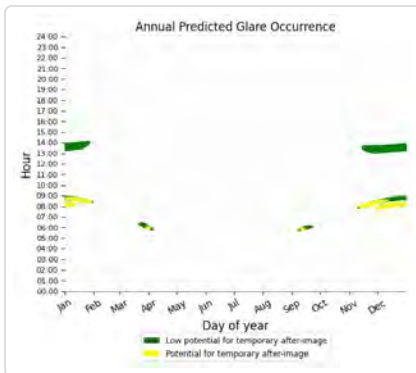
205: OP 25

No glare found

205: Bondurant Road

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

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



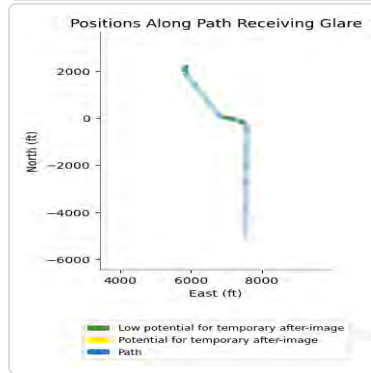
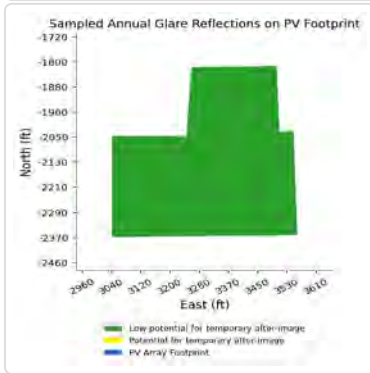
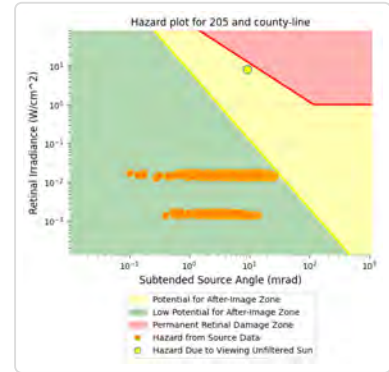
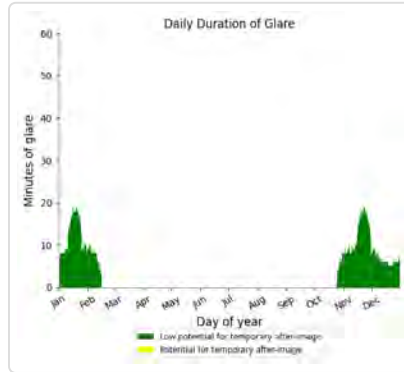
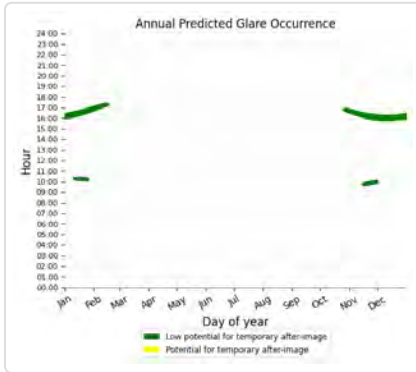
205: Buchanan Lane

No glare found

205: County Line Road

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

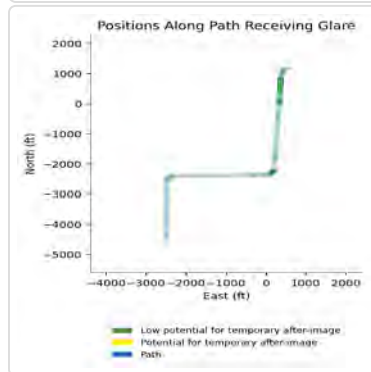
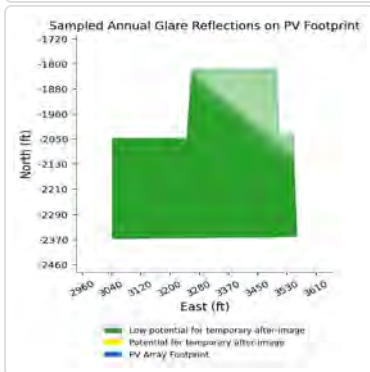
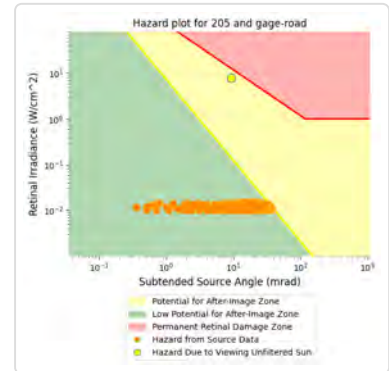
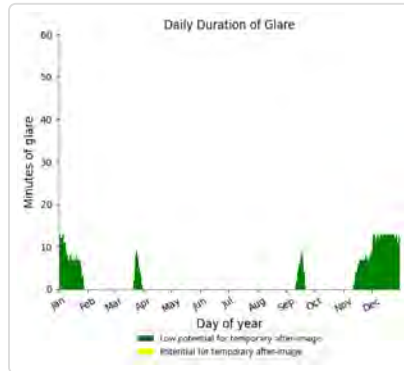
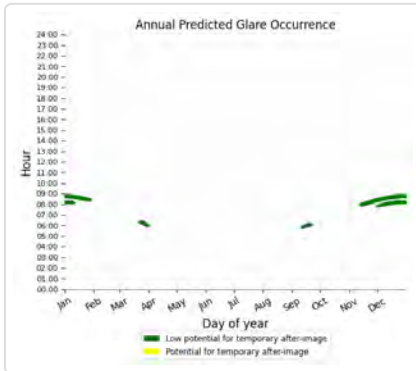
- 1,111 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: Gage Road

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

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



206 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	55	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
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

206: Barkley Regional Airport Runway 14

No glare found

206: Barkley Regional Airport Runway 23

No glare found

206: Barkley Regional Airport Runway 32

No glare found

206: Barkley Regional Airport Runway 5

No glare found

206: 1-ATCT

No glare found

206: OP 2

No glare found

206: OP 3

No glare found

206: OP 4

No glare found

206: OP 5

No glare found

206: OP 6

No glare found

206: OP 7

No glare found

206: OP 8

No glare found

206: OP 9

No glare found

206: OP 10

No glare found

206: OP 11

No glare found

206: OP 12

No glare found

206: OP 13

No glare found

206: OP 14

No glare found

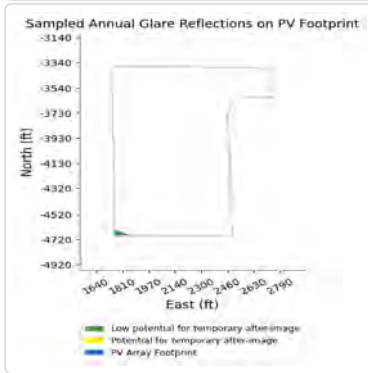
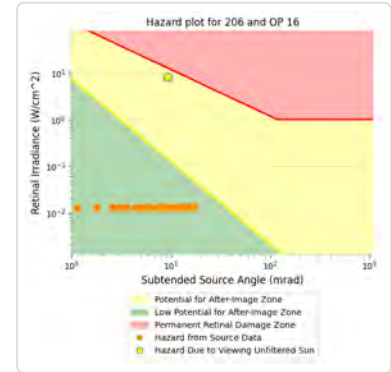
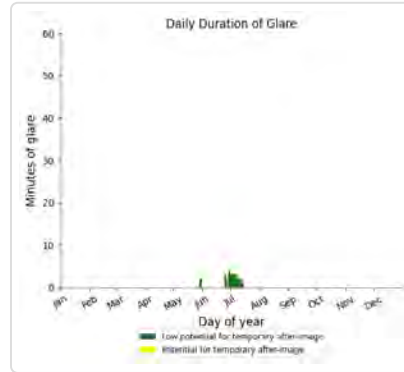
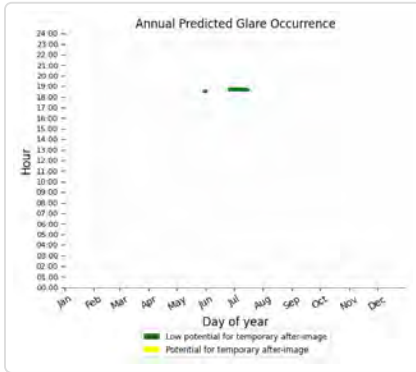
206: OP 15

No glare found

206: OP 16

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

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



206: OP 17

No glare found

206: OP 18

No glare found

206: OP 19

No glare found

206: OP 20

No glare found

206: OP 21

No glare found

206: OP 22

No glare found

206: OP 23

No glare found

206: OP 24

No glare found

206: OP 25

No glare found

206: Bondurant Road

No glare found

206: Buchanan Lane

No glare found

206: County Line Road

No glare found

206: Gage Road

No glare found

207 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	46	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	99	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0

Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

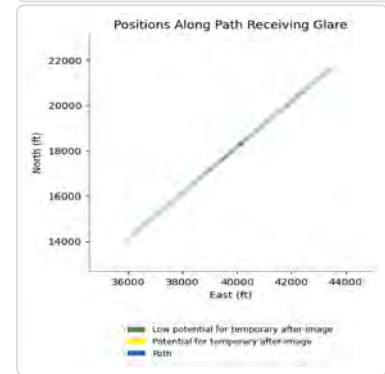
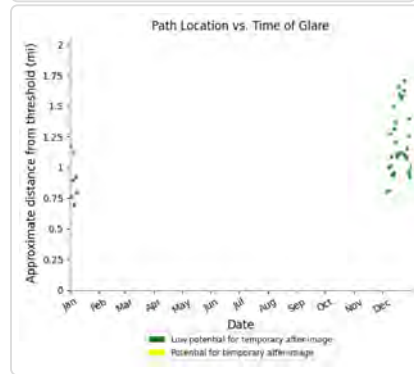
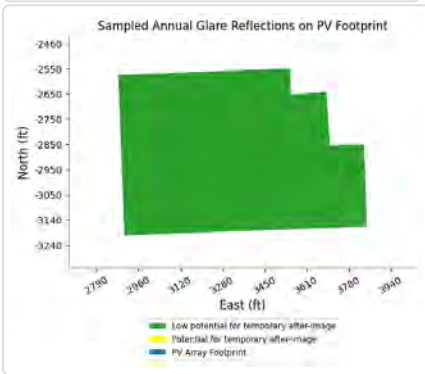
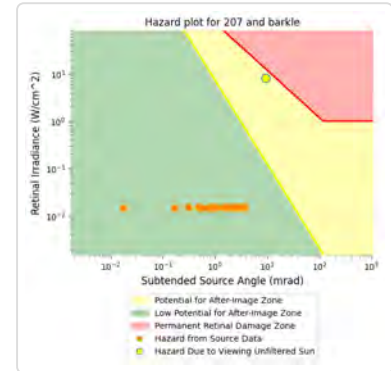
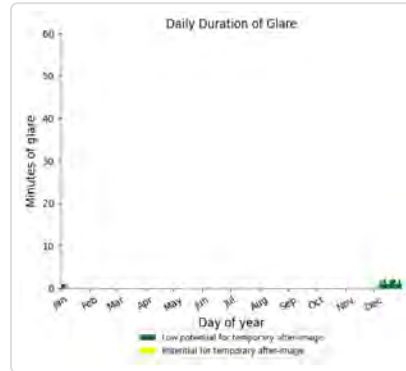
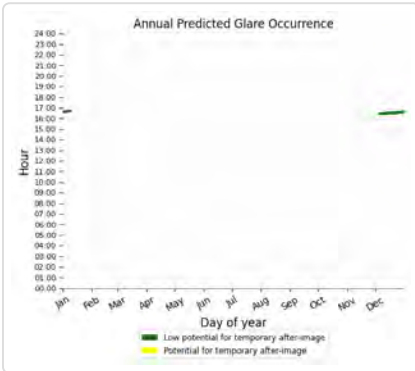
207: Barkley Regional Airport Runway 14

No glare found

207: Barkley Regional Airport Runway 23

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

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



207: Barkley Regional Airport Runway 32

No glare found

207: Barkley Regional Airport Runway 5

No glare found

207: 1-ATCT

No glare found

207: OP 2

No glare found

207: OP 3

No glare found

207: OP 4
No glare found

207: OP 5
No glare found

207: OP 6
No glare found

207: OP 7
No glare found

207: OP 8
No glare found

207: OP 9
No glare found

207: OP 10
No glare found

207: OP 11
No glare found

207: OP 12
No glare found

207: OP 13
No glare found

207: OP 14
No glare found

207: OP 15
No glare found

207: OP 16
No glare found

207: OP 17
No glare found

207: OP 18
No glare found

207: OP 19

No glare found

207: OP 20

No glare found

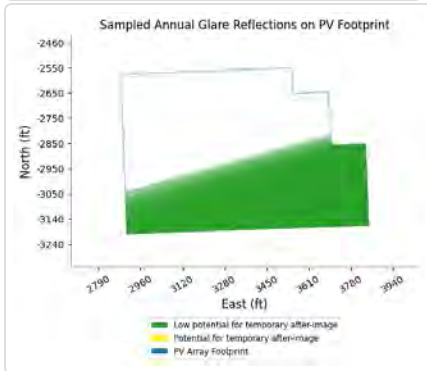
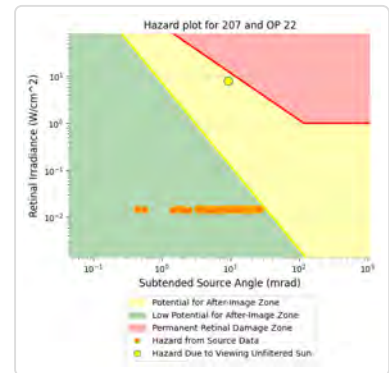
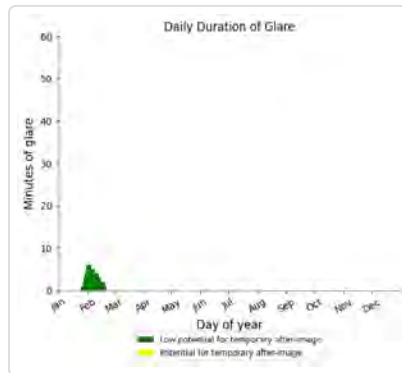
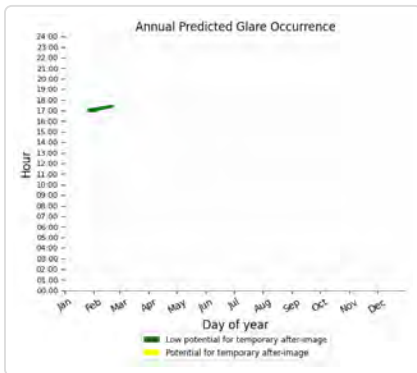
207: OP 21

No glare found

207: OP 22

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

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



207: OP 23

No glare found

207: OP 24

No glare found

207: OP 25

No glare found

207: Bondurant Road

No glare found

207: Buchanan Lane

No glare found

207: County Line Road

No glare found

207: Gage Road

No glare found

208 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

209 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	55	58
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	441	726
OP: OP 6	202	6
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	36	0
OP: OP 25	137	0
Route: Bondurant Road	315	1448
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	344	1191

209: Barkley Regional Airport Runway 14

No glare found

209: Barkley Regional Airport Runway 23

No glare found

209: Barkley Regional Airport Runway 32

No glare found

209: Barkley Regional Airport Runway 5

No glare found

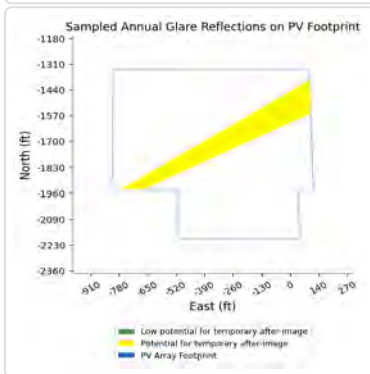
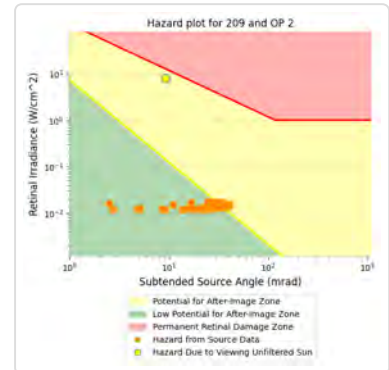
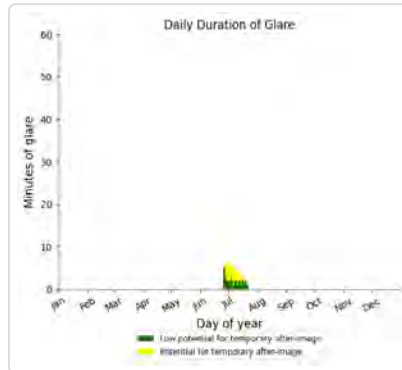
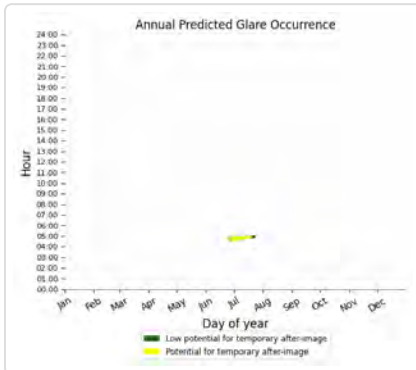
209: 1-ATCT

No glare found

209: OP 2

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

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



209: OP 3

No glare found

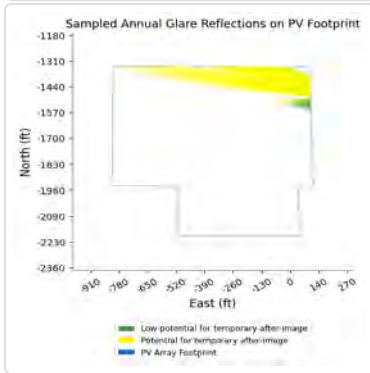
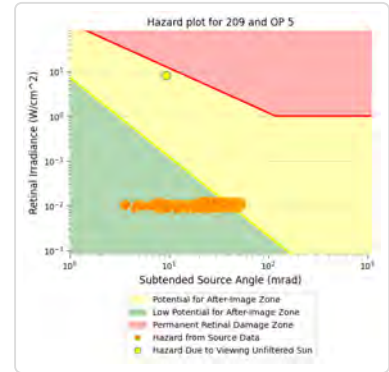
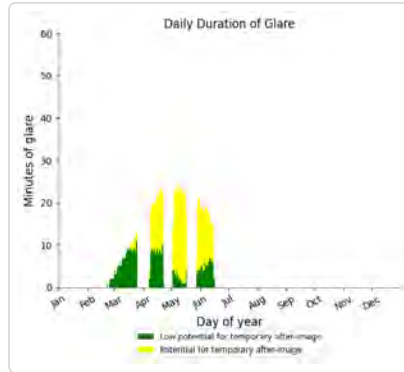
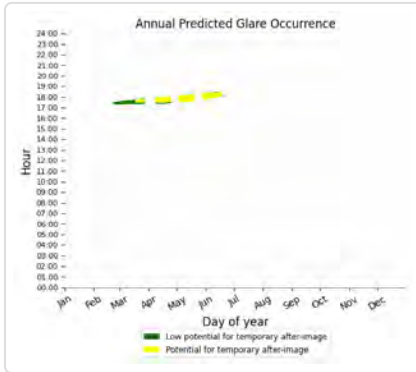
209: OP 4

No glare found

209: OP 5

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

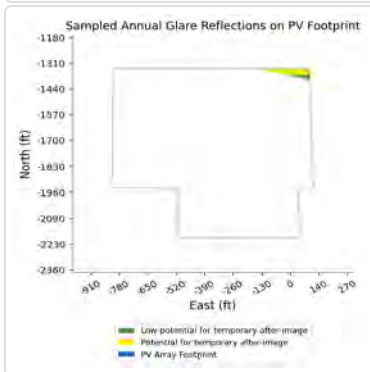
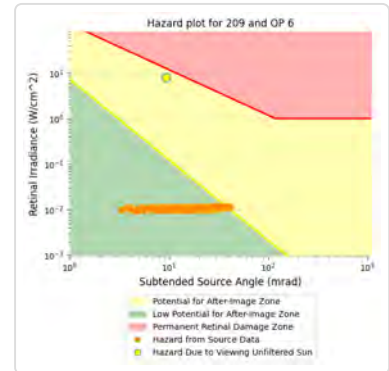
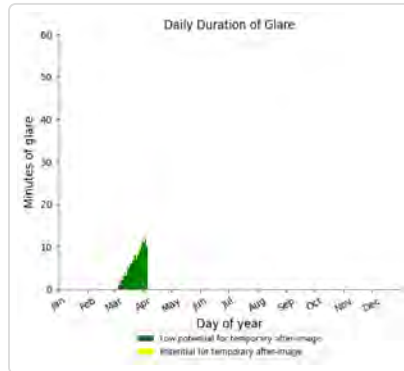
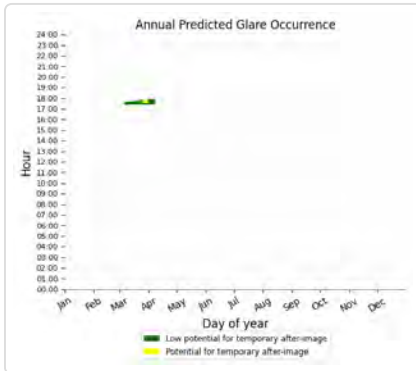
- 441 minutes of "green" glare with low potential to cause temporary after-image.
- 726 minutes of "yellow" glare with potential to cause temporary after-image.



209: OP 6

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

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



209: OP 7
No glare found

209: OP 8
No glare found

209: OP 9
No glare found

209: OP 10
No glare found

209: OP 11
No glare found

209: OP 12
No glare found

209: OP 13
No glare found

209: OP 14
No glare found

209: OP 15
No glare found

209: OP 16
No glare found

209: OP 17
No glare found

209: OP 18
No glare found

209: OP 19
No glare found

209: OP 20
No glare found

209: OP 21
No glare found

209: OP 22

No glare found

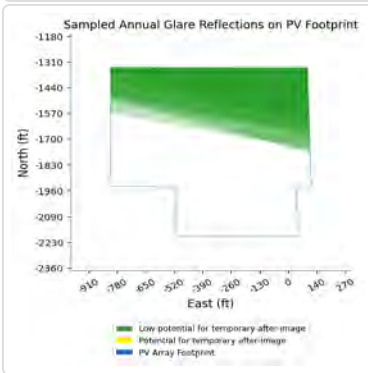
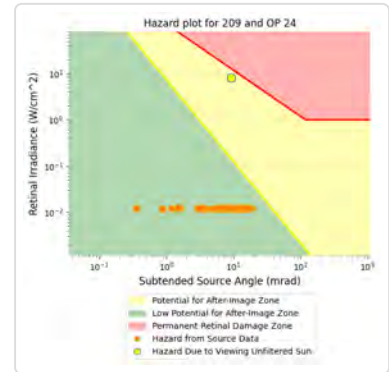
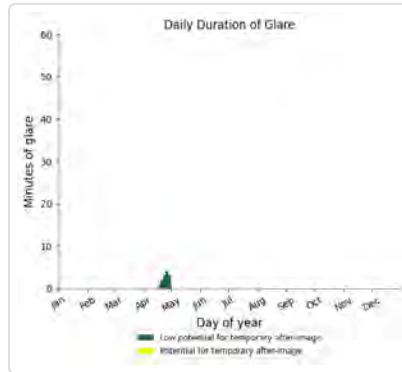
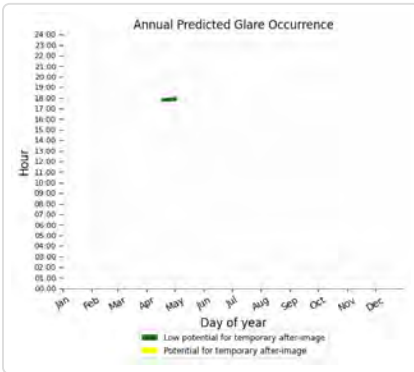
209: OP 23

No glare found

209: OP 24

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

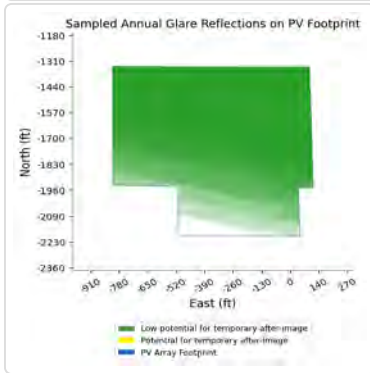
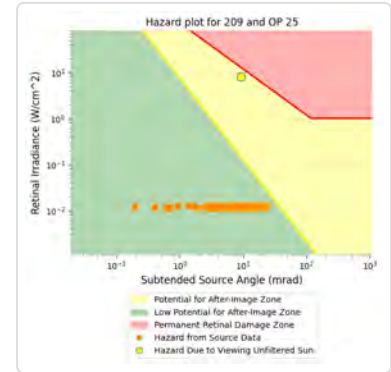
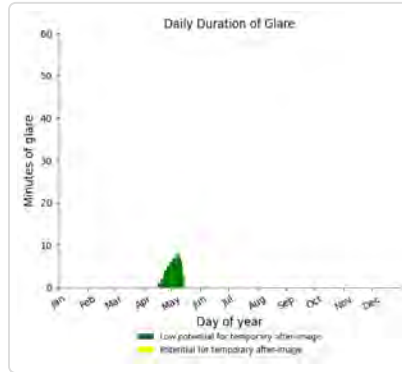
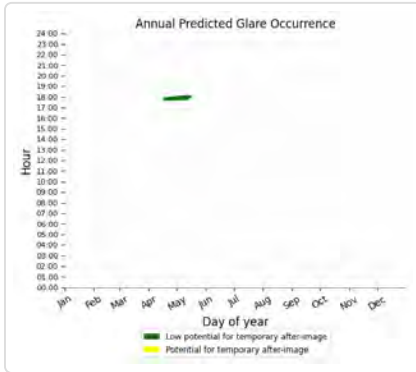
- 36 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



209: OP 25

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

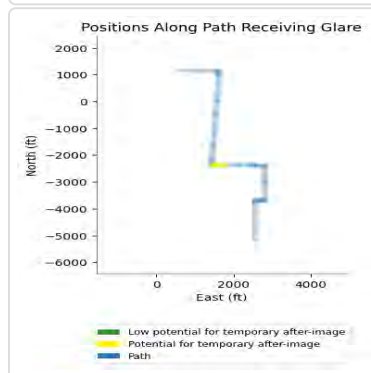
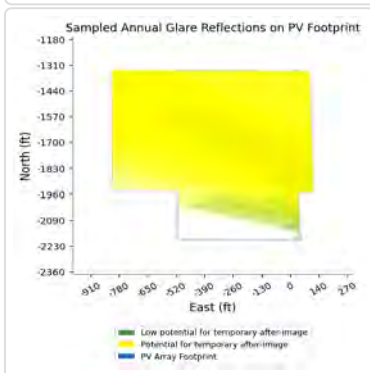
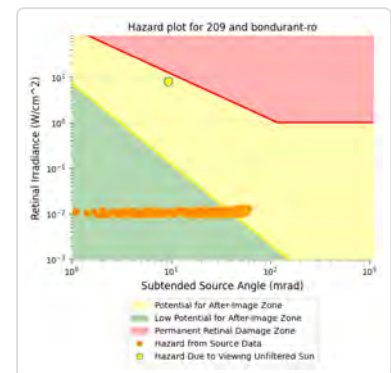
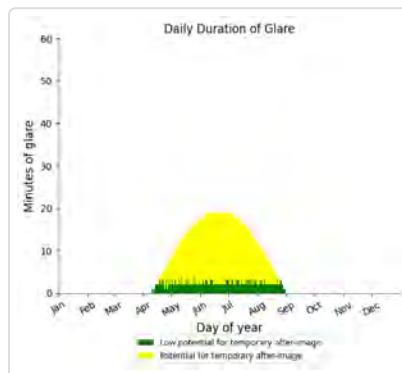
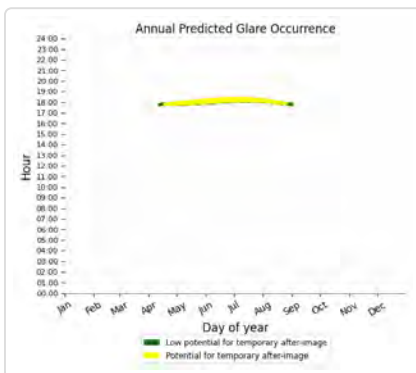
- 137 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



209: Bondurant Road

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

- 315 minutes of "green" glare with low potential to cause temporary after-image.
- 1,448 minutes of "yellow" glare with potential to cause temporary after-image.



209: Buchanan Lane

No glare found

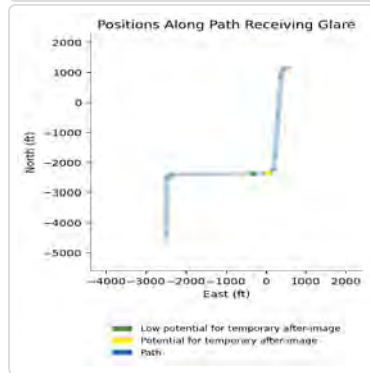
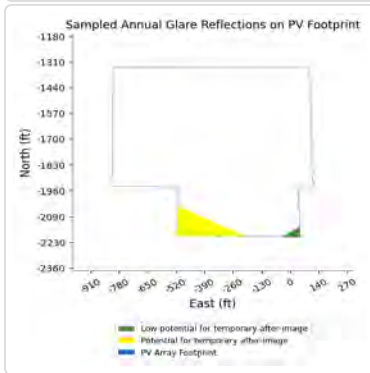
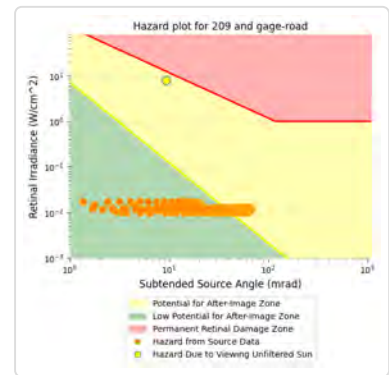
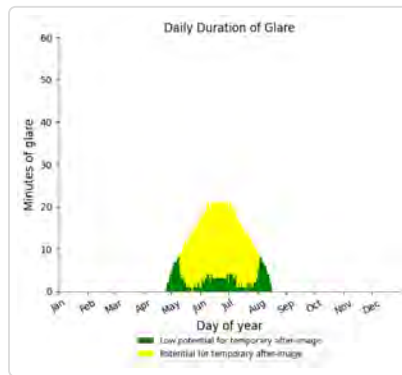
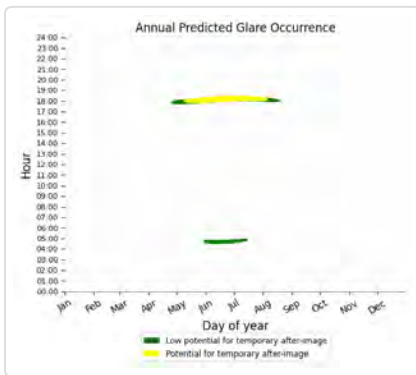
209: County Line Road

No glare found

209: Gage Road

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

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



210 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	834	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	32	0
OP: OP 9	57	55
OP: OP 10	160	576
OP: OP 11	0	0

OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	740	0
Route: Gage Road	0	0

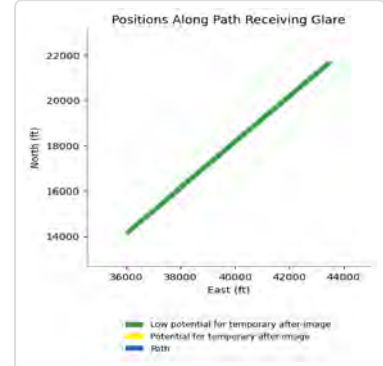
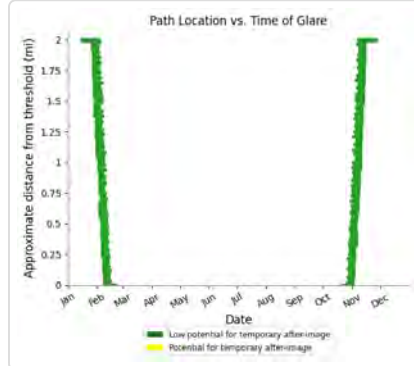
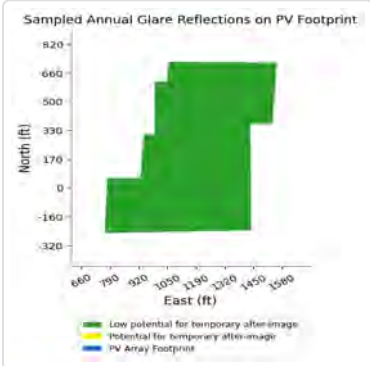
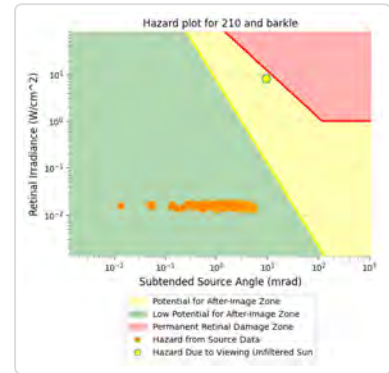
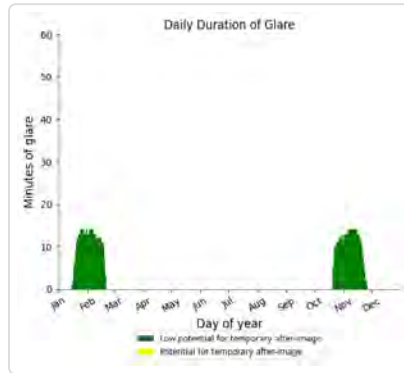
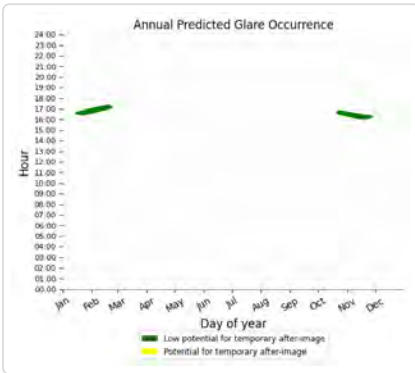
210: Barkley Regional Airport Runway 14

No glare found

210: Barkley Regional Airport Runway 23

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

- 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.



210: Barkley Regional Airport Runway 32

No glare found

210: Barkley Regional Airport Runway 5

No glare found

210: 1-ATCT

No glare found

210: OP 2

No glare found

210: OP 3

No glare found

210: OP 4

No glare found

210: OP 5

No glare found

210: OP 6

No glare found

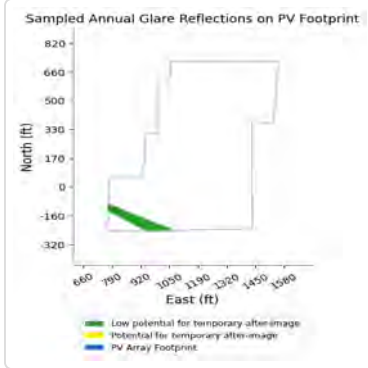
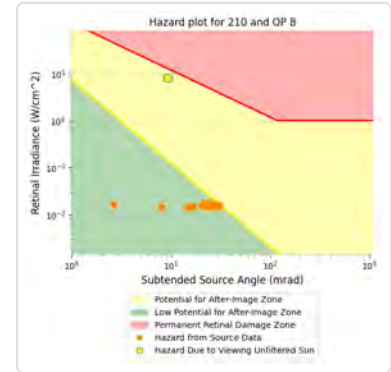
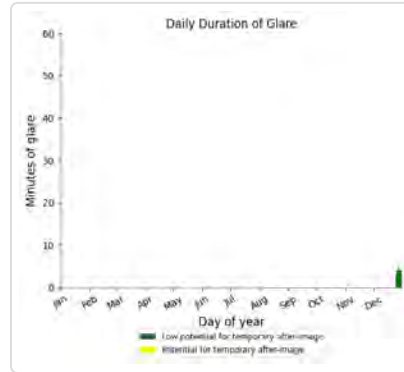
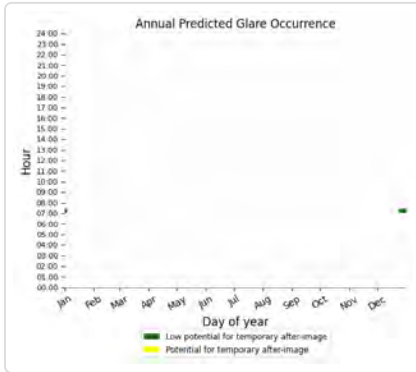
210: OP 7

No glare found

210: OP 8

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

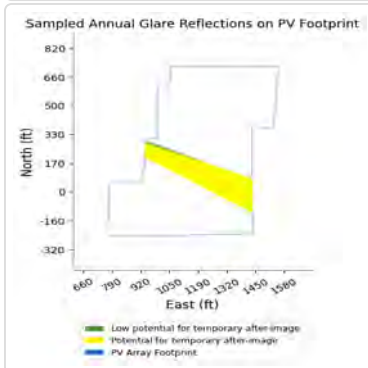
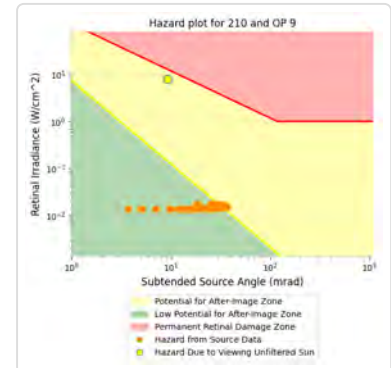
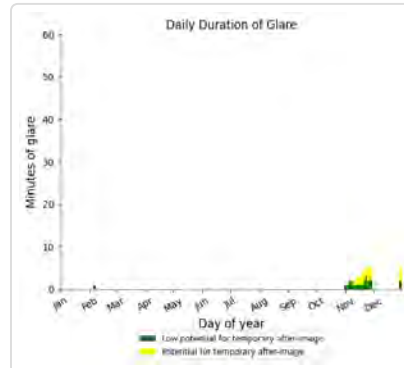
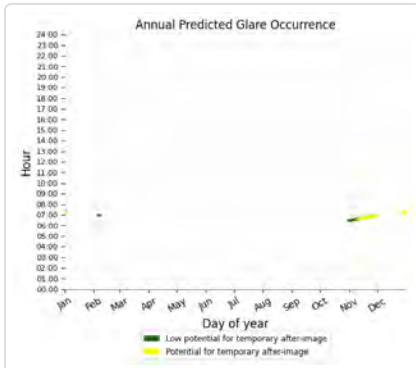
- 32 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



210: OP 9

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

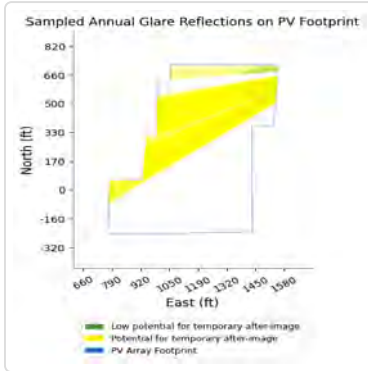
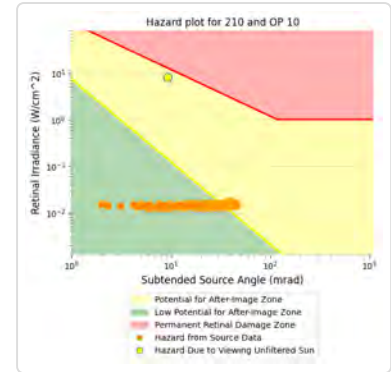
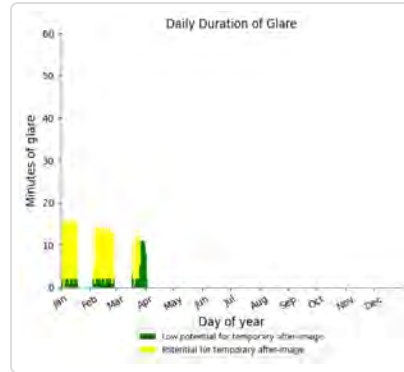
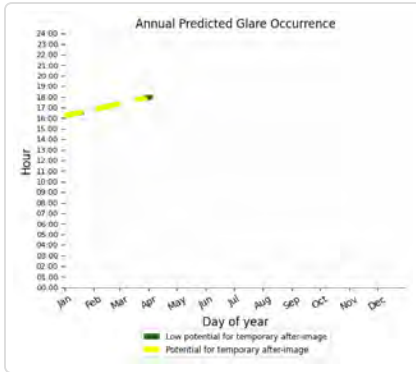
- 57 minutes of "green" glare with low potential to cause temporary after-image.
- 55 minutes of "yellow" glare with potential to cause temporary after-image.



210: OP 10

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

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



210: OP 11

No glare found

210: OP 12

No glare found

210: OP 13

No glare found

210: OP 14

No glare found

210: OP 15

No glare found

210: OP 16

No glare found

210: OP 17

No glare found

210: OP 18

No glare found

210: OP 19

No glare found

210: OP 20

No glare found

210: OP 21

No glare found

210: OP 22

No glare found

210: OP 23

No glare found

210: OP 24

No glare found

210: OP 25

No glare found

210: Bondurant Road

No glare found

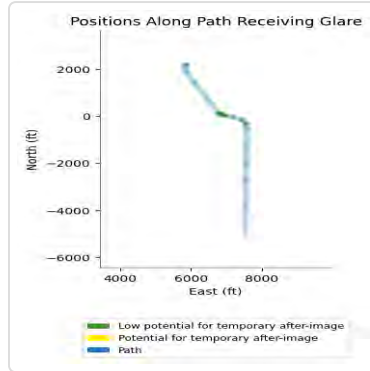
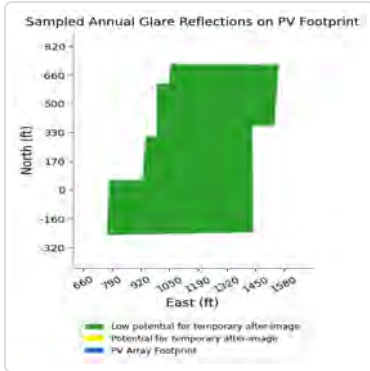
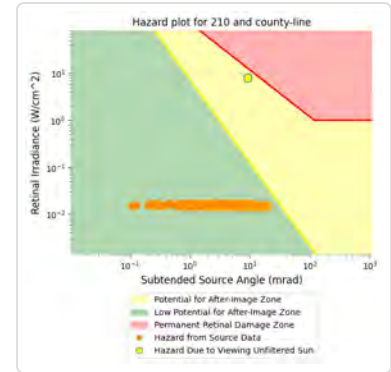
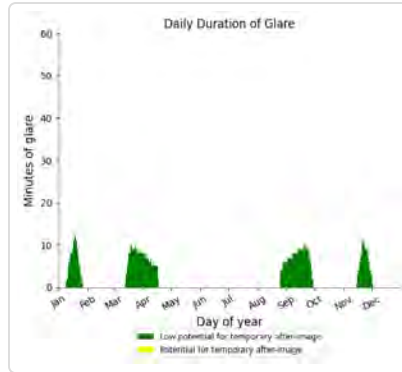
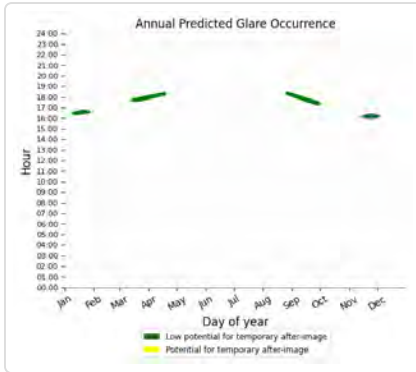
210: Buchanan Lane

No glare found

210: County Line Road

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

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



210: Gage Road

No glare found

211 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	33	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0

OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	128	0
Route: Gage Road	0	0

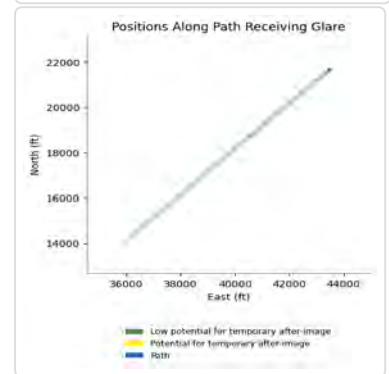
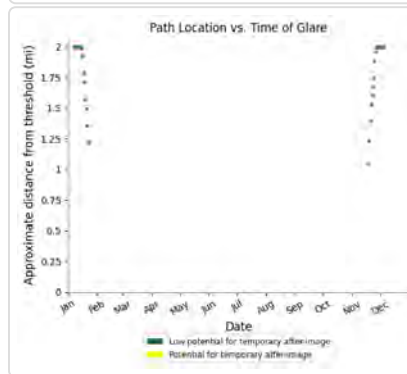
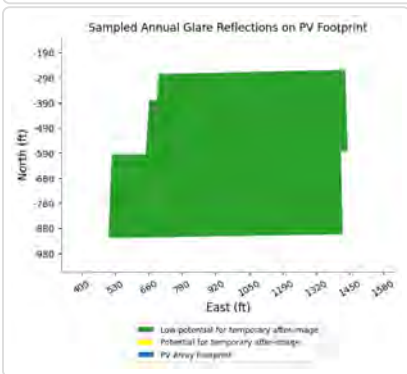
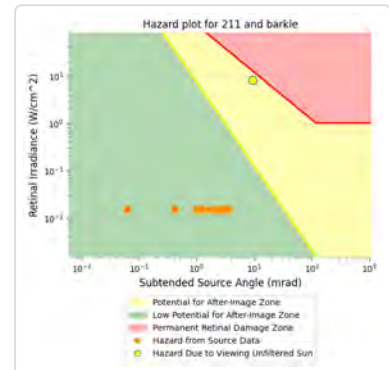
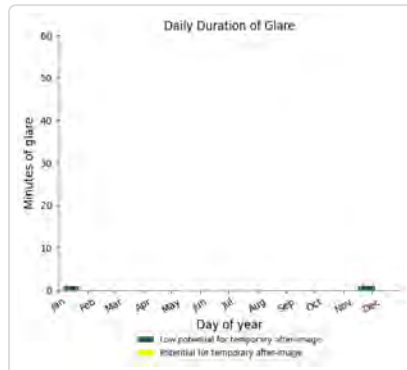
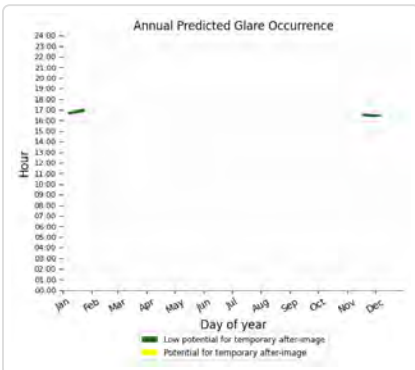
211: Barkley Regional Airport Runway 14

No glare found

211: Barkley Regional Airport Runway 23

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

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



211: Barkley Regional Airport Runway 32

No glare found

211: Barkley Regional Airport Runway 5

No glare found

211: 1-ATCT

No glare found

211: OP 2

No glare found

211: OP 3

No glare found

211: OP 4

No glare found

211: OP 5

No glare found

211: OP 6

No glare found

211: OP 7

No glare found

211: OP 8

No glare found

211: OP 9

No glare found

211: OP 10

No glare found

211: OP 11

No glare found

211: OP 12

No glare found

211: OP 13

No glare found

211: OP 14

No glare found

211: OP 15

No glare found

211: OP 16

No glare found

211: OP 17

No glare found

211: OP 18

No glare found

211: OP 19

No glare found

211: OP 20

No glare found

211: OP 21

No glare found

211: OP 22

No glare found

211: OP 23

No glare found

211: OP 24

No glare found

211: OP 25

No glare found

211: Bondurant Road

No glare found

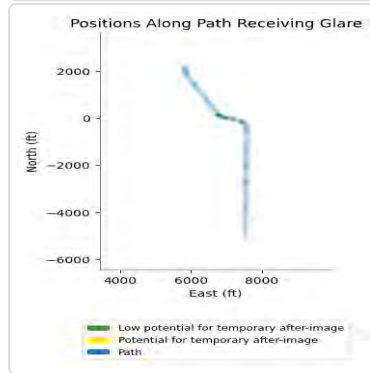
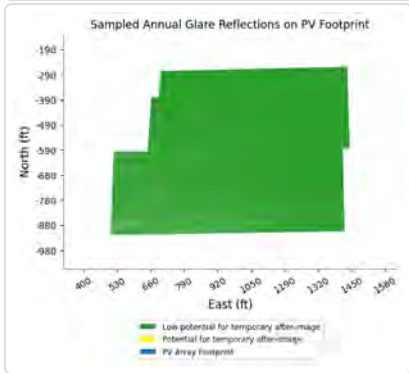
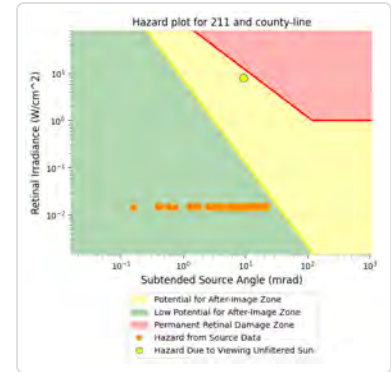
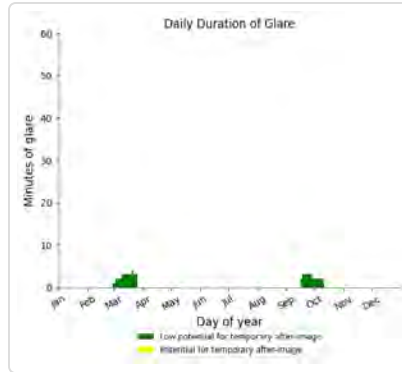
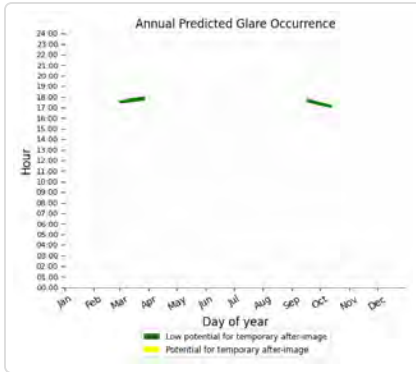
211: Buchanan Lane

No glare found

211: County Line Road

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

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



211: Gage Road

No glare found

212 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	821	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0

OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	33	156
Route: Buchanan Lane	0	0
Route: County Line Road	1251	0
Route: Gage Road	0	0

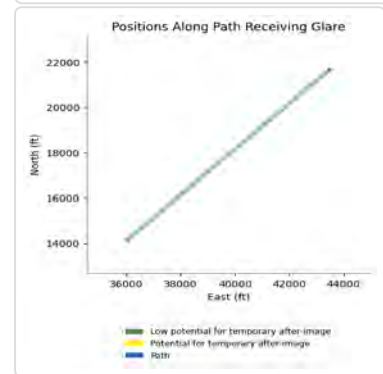
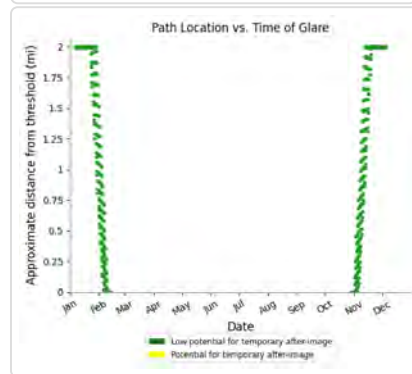
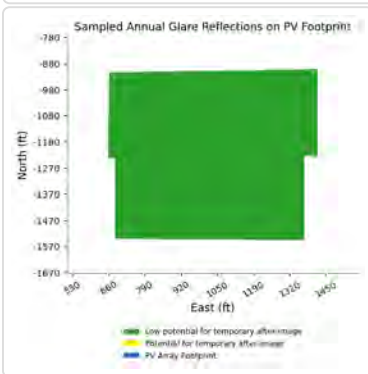
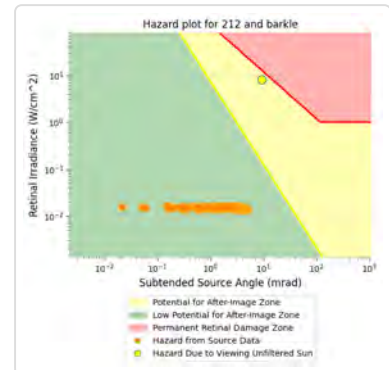
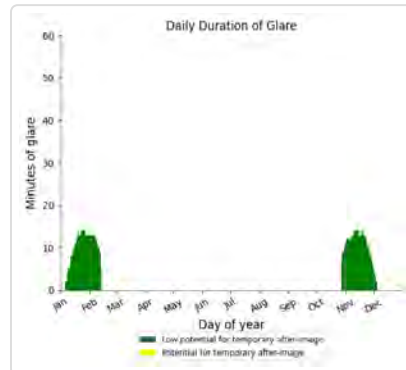
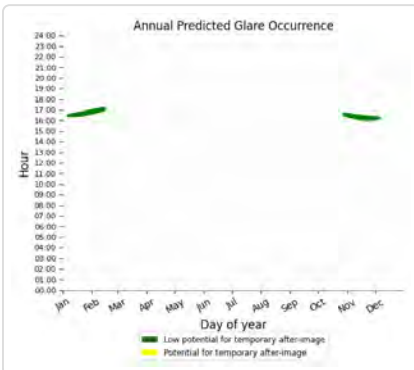
212: Barkley Regional Airport Runway 14

No glare found

212: Barkley Regional Airport Runway 23

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

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



212: Barkley Regional Airport Runway 32

No glare found

212: Barkley Regional Airport Runway 5

No glare found

212: 1-ATCT

No glare found

212: OP 2

No glare found

212: OP 3

No glare found

212: OP 4

No glare found

212: OP 5

No glare found

212: OP 6

No glare found

212: OP 7

No glare found

212: OP 8

No glare found

212: OP 9

No glare found

212: OP 10

No glare found

212: OP 11

No glare found

212: OP 12

No glare found

212: OP 13

No glare found

212: OP 14

No glare found

212: OP 15

No glare found

212: OP 16

No glare found

212: OP 17

No glare found

212: OP 18

No glare found

212: OP 19

No glare found

212: OP 20

No glare found

212: OP 21

No glare found

212: OP 22

No glare found

212: OP 23

No glare found

212: OP 24

No glare found

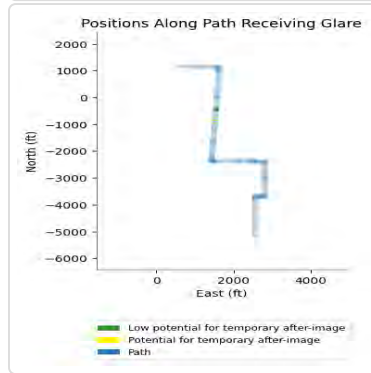
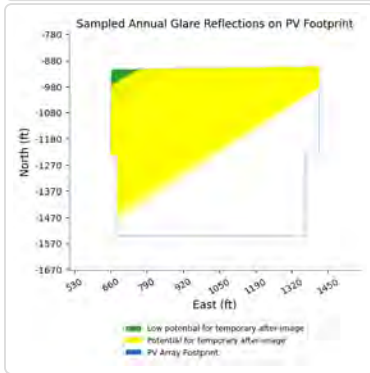
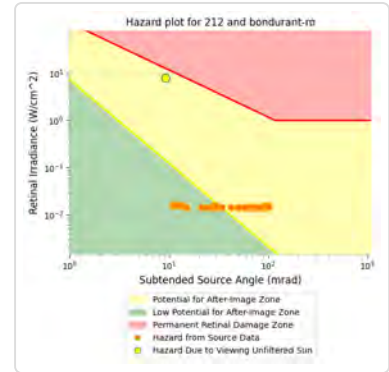
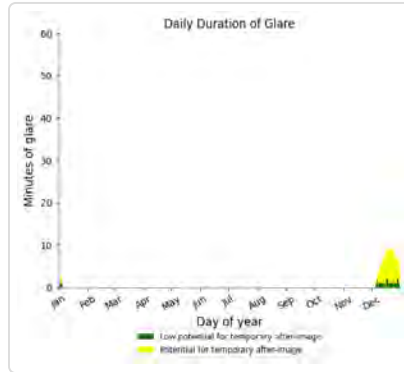
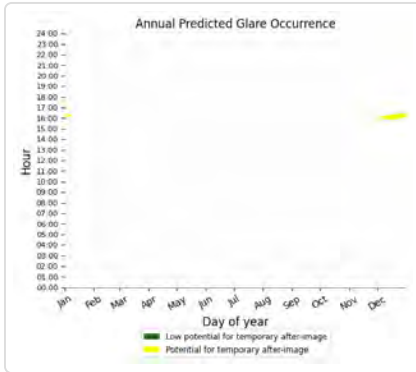
212: OP 25

No glare found

212: Bondurant Road

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

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



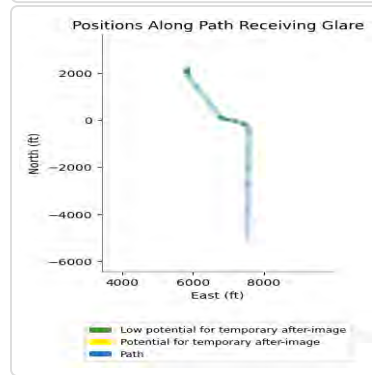
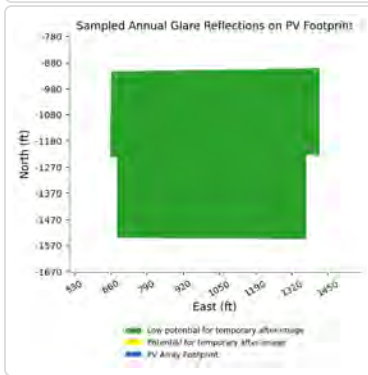
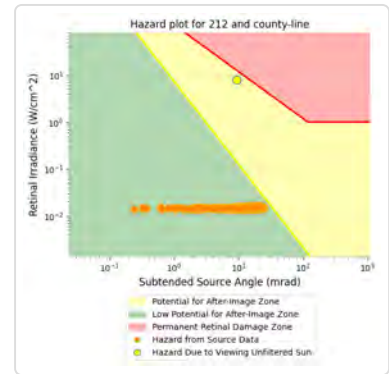
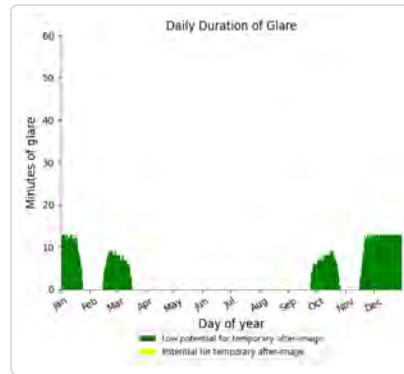
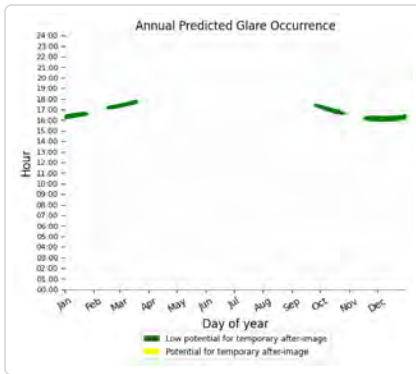
212: Buchanan Lane

No glare found

212: County Line Road

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

- 1,251 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



212: Gage Road

No glare found

213 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

214 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	1017	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	109	0
OP: OP 2	0	0
OP: OP 3	0	0

OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	45	0
Route: Buchanan Lane	0	0
Route: County Line Road	1377	125
Route: Gage Road	0	0

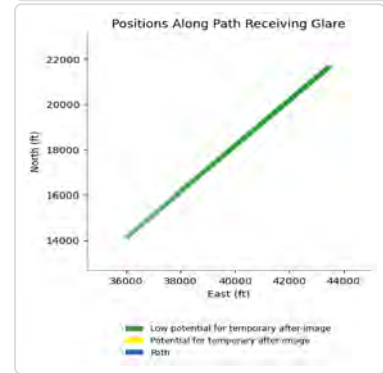
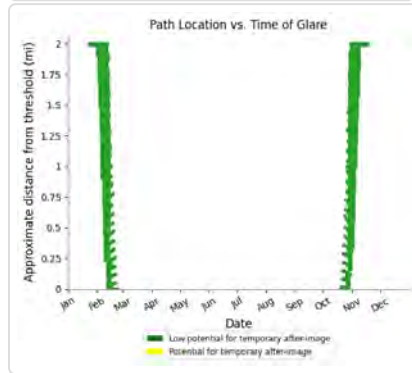
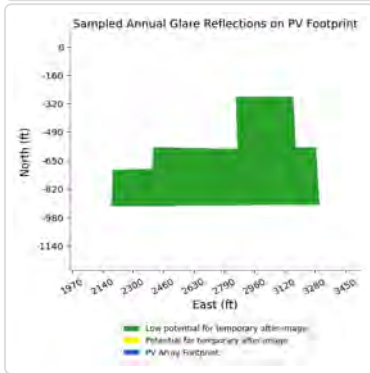
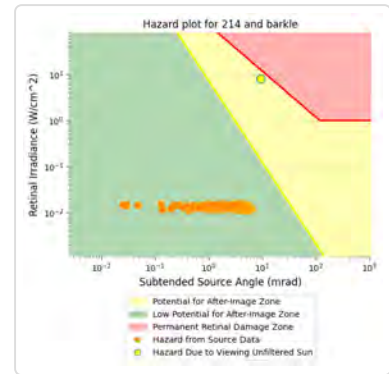
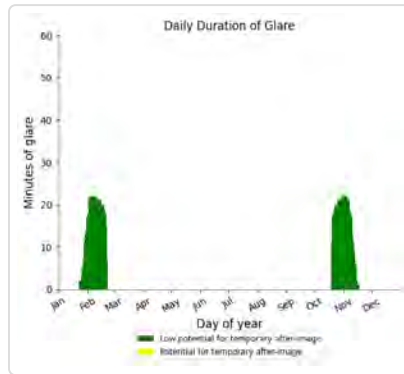
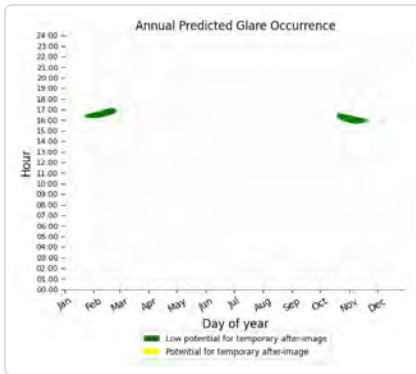
214: Barkley Regional Airport Runway 14

No glare found

214: Barkley Regional Airport Runway 23

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

- 1,017 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



214: Barkley Regional Airport Runway 32

No glare found

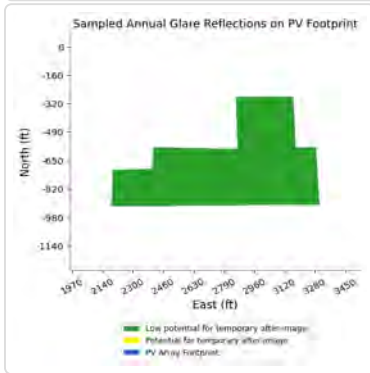
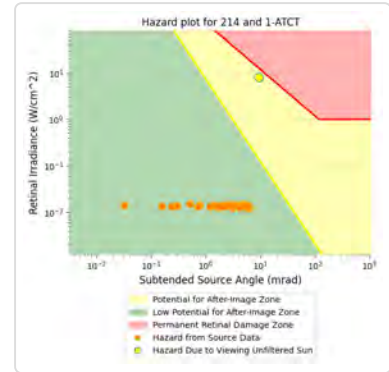
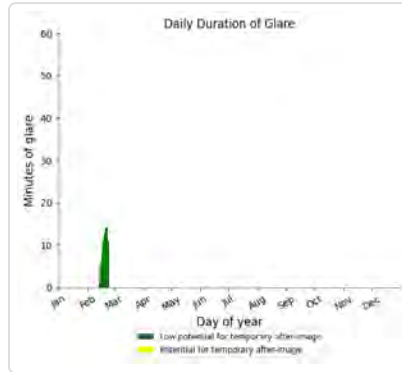
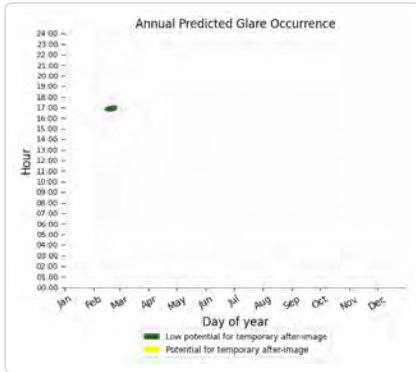
214: Barkley Regional Airport Runway 5

No glare found

214: 1-ATCT

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

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



214: OP 2

No glare found

214: OP 3

No glare found

214: OP 4

No glare found

214: OP 5

No glare found

214: OP 6

No glare found

214: OP 7

No glare found

214: OP 8

No glare found

214: OP 9

No glare found

214: OP 10

No glare found

214: OP 11

No glare found

214: OP 12

No glare found

214: OP 13

No glare found

214: OP 14

No glare found

214: OP 15

No glare found

214: OP 16

No glare found

214: OP 17

No glare found

214: OP 18

No glare found

214: OP 19

No glare found

214: OP 20

No glare found

214: OP 21

No glare found

214: OP 22

No glare found

214: OP 23

No glare found

214: OP 24

No glare found

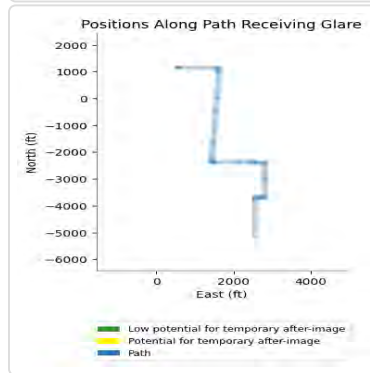
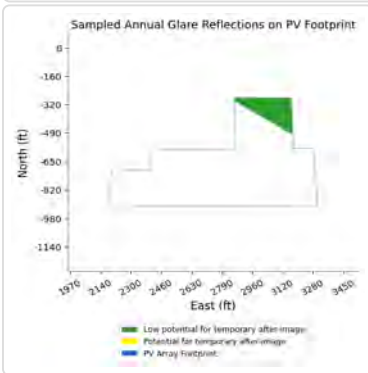
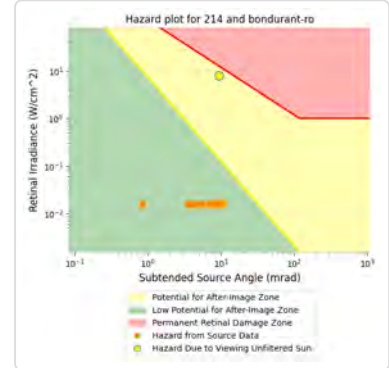
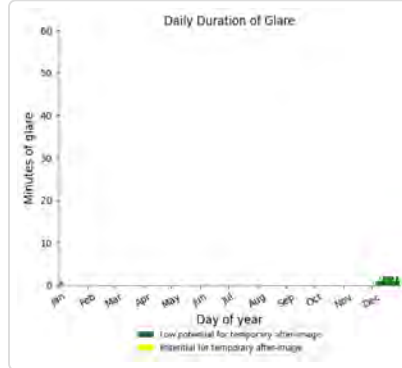
214: OP 25

No glare found

214: Bondurant Road

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

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



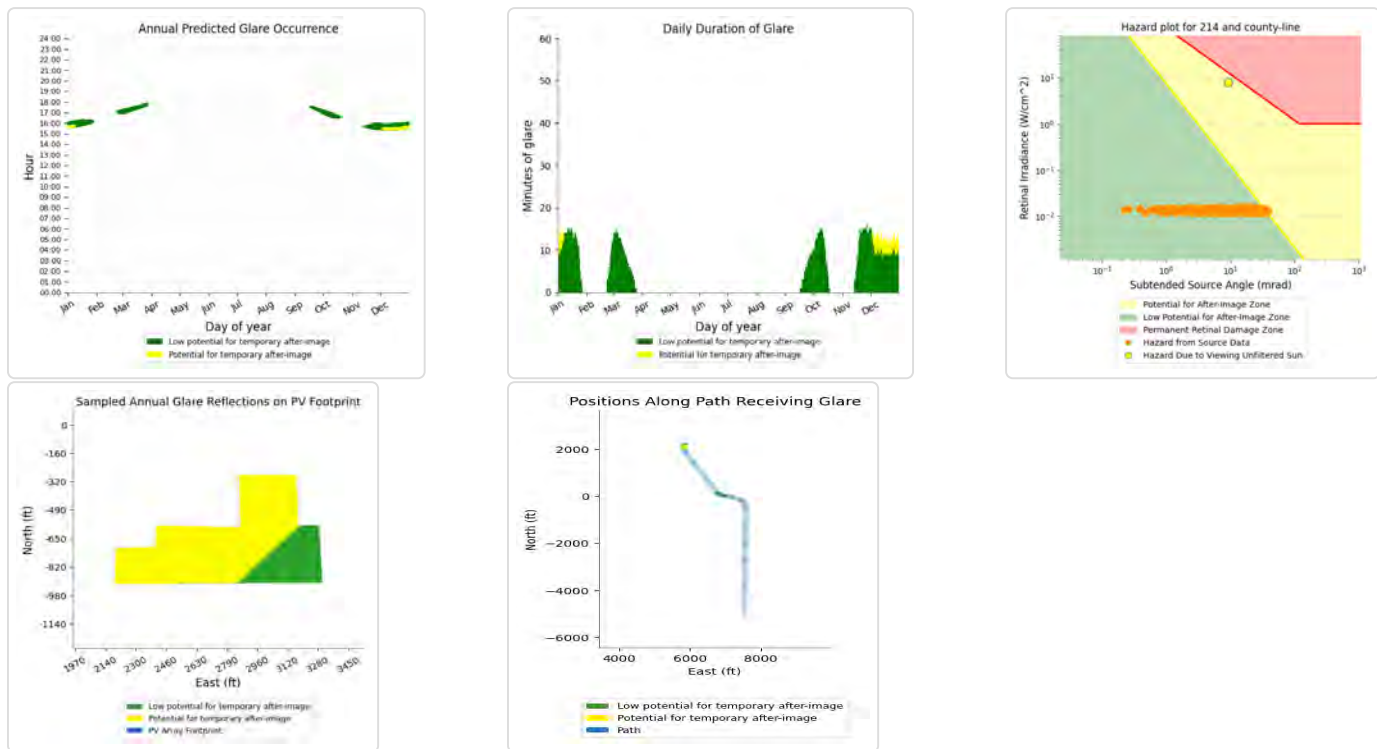
214: Buchanan Lane

No glare found

214: County Line Road

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

- 1,377 minutes of "green" glare with low potential to cause temporary after-image.
- 125 minutes of "yellow" glare with potential to cause temporary after-image.



214: Gage Road

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 2 5ft vehicles 10 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 97987.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
201	SA tracking	SA tracking	0	0	-
202	SA tracking	SA tracking	0	0	-
203	SA tracking	SA tracking	0	0	-
204	SA tracking	SA tracking	0	0	-
205	SA tracking	SA tracking	4,684	0	-
206	SA tracking	SA tracking	0	0	-
207	SA tracking	SA tracking	0	0	-
208	SA tracking	SA tracking	0	0	-
209	SA tracking	SA tracking	106	16	-
210	SA tracking	SA tracking	0	0	-
211	SA tracking	SA tracking	0	0	-
212	SA tracking	SA tracking	0	0	-
213	SA tracking	SA tracking	0	0	-
214	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 212.1 acres

Name: 201

Footprint area: 11.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027373	-88.889642	466.81	7.50	474.31
2	37.026487	-88.889642	471.28	7.50	478.78
3	37.026491	-88.888929	468.99	7.50	476.49
4	37.025596	-88.888902	469.68	7.50	477.18
5	37.025545	-88.892330	467.73	7.50	475.23
6	37.025532	-88.892598	467.38	7.50	474.88
7	37.026337	-88.892576	467.68	7.50	475.18
8	37.026346	-88.891697	472.53	7.50	480.03
9	37.027104	-88.891675	462.02	7.50	469.52
10	37.027099	-88.890946	472.32	7.50	479.82
11	37.027352	-88.890951	472.65	7.50	480.15

Name: 202

Footprint area: 22.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024872	-88.882934	438.15	7.50	445.65
2	37.024894	-88.878122	428.53	7.50	436.03
3	37.023973	-88.878074	430.21	7.50	437.71
4	37.023960	-88.878530	431.84	7.50	439.34
5	37.023061	-88.878535	432.59	7.50	440.09
6	37.023018	-88.883626	447.70	7.50	455.20
7	37.023866	-88.883562	438.99	7.50	446.49
8	37.023861	-88.882993	438.61	7.50	446.11

Name: 203

Footprint area: 19.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023052	-88.879383	444.26	7.50	451.76
2	37.022337	-88.879350	439.16	7.50	446.66
3	37.022337	-88.879511	440.91	7.50	448.41
4	37.022041	-88.879495	440.11	7.50	447.61
5	37.022041	-88.880155	444.02	7.50	451.52
6	37.021532	-88.880150	441.43	7.50	448.93
7	37.021519	-88.880488	446.53	7.50	454.03
8	37.021296	-88.880488	444.14	7.50	451.64
9	37.021163	-88.884313	462.60	7.50	470.10
10	37.022988	-88.884345	443.85	7.50	451.35
11	37.023009	-88.883626	447.76	7.50	455.26

Name: 204

Footprint area: 21.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020662	-88.883690	466.67	7.50	474.17
2	37.020666	-88.880305	448.31	7.50	455.81
3	37.018075	-88.880256	468.65	7.50	476.15
4	37.018101	-88.883679	471.87	7.50	479.37

Name: 205

Footprint area: 4.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022367	-88.878476	436.15	7.50	443.65
2	37.022375	-88.877666	431.55	7.50	439.05
3	37.021789	-88.877639	449.35	7.50	456.85
4	37.021793	-88.877505	448.74	7.50	456.24
5	37.020868	-88.877468	454.54	7.50	462.04
6	37.020851	-88.879238	455.72	7.50	463.22
7	37.021746	-88.879238	437.99	7.50	445.49
8	37.021746	-88.878524	441.10	7.50	448.60

Name: 206

Footprint area: 23.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017445	-88.880246	472.86	7.50	480.36
2	37.017407	-88.881147	475.42	7.50	482.92
3	37.017158	-88.881147	475.73	7.50	483.23
4	37.017154	-88.881206	475.76	7.50	483.26
5	37.014456	-88.881115	478.37	7.50	485.87
6	37.014486	-88.883625	464.20	7.50	471.70
7	37.018096	-88.883679	471.87	7.50	479.37
8	37.018071	-88.880251	468.66	7.50	476.16

Name: 207

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020274	-88.879793	448.99	7.50	456.49
2	37.020345	-88.877505	457.82	7.50	465.32
3	37.020067	-88.877497	458.22	7.50	465.72
4	37.020090	-88.877020	455.99	7.50	463.49
5	37.019521	-88.876977	454.08	7.50	461.58
6	37.019529	-88.876518	444.63	7.50	452.13
7	37.018658	-88.876478	445.45	7.50	452.95
8	37.018566	-88.879713	461.78	7.50	469.28

Name: 208

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

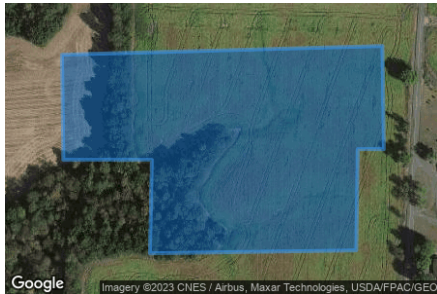
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025600	-88.889051	469.88	7.50	477.38
2	37.024692	-88.889035	470.58	7.50	478.08
3	37.024692	-88.889325	470.55	7.50	478.05
4	37.023801	-88.889341	470.64	7.50	478.14
5	37.023776	-88.891632	469.22	7.50	476.72
6	37.024598	-88.891610	462.63	7.50	470.13
7	37.024598	-88.892592	452.03	7.50	459.53
8	37.025523	-88.892608	467.43	7.50	474.93

Name: 209

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023690	-88.892431	464.64	7.50	472.14
2	37.023682	-88.889336	470.64	7.50	478.14
3	37.021990	-88.889277	460.59	7.50	468.09
4	37.021994	-88.889513	462.45	7.50	469.95
5	37.021322	-88.889481	459.56	7.50	467.06
6	37.021343	-88.891422	459.60	7.50	467.10
7	37.022011	-88.891396	470.27	7.50	477.77
8	37.022028	-88.892436	471.50	7.50	479.00

Name: 210

Footprint area: 12.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029339	-88.886016	453.14	7.50	460.64
2	37.029335	-88.884342	436.81	7.50	444.31
3	37.028380	-88.884412	447.41	7.50	454.91
4	37.028384	-88.884755	445.97	7.50	453.47
5	37.026716	-88.884747	450.76	7.50	458.26
6	37.026673	-88.887019	465.32	7.50	472.82
7	37.027515	-88.886979	468.64	7.50	476.14
8	37.027515	-88.886461	468.62	7.50	476.12
9	37.028202	-88.886410	462.24	7.50	469.74
10	37.028202	-88.886238	462.22	7.50	469.72
11	37.029039	-88.886236	453.07	7.50	460.57
12	37.029039	-88.886048	457.04	7.50	464.54

Name: 211

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.026592	-88.887258	468.21	7.50	475.71
2	37.026641	-88.884763	449.31	7.50	456.81
3	37.025776	-88.884728	455.41	7.50	462.91
4	37.025767	-88.884822	455.51	7.50	463.01
5	37.024879	-88.884798	450.01	7.50	457.51
6	37.024836	-88.887928	458.50	7.50	466.00
7	37.025727	-88.887885	471.11	7.50	478.61
8	37.025727	-88.887432	468.38	7.50	475.88
9	37.026320	-88.887381	468.45	7.50	475.95
10	37.026311	-88.887279	468.43	7.50	475.93

Name: 212

Footprint area: 10.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

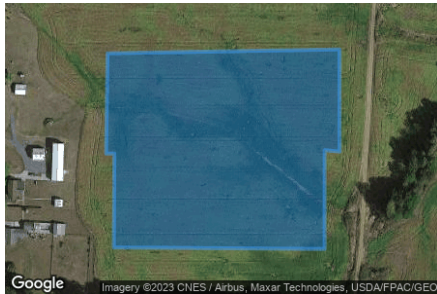
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024842	-88.887381	460.51	7.50	468.01
2	37.023960	-88.887397	460.65	7.50	468.15
3	37.023960	-88.887306	460.27	7.50	467.77
4	37.023133	-88.887311	463.53	7.50	471.03
5	37.023121	-88.884972	443.33	7.50	450.83
6	37.023990	-88.884972	449.09	7.50	456.59
7	37.023977	-88.884806	449.89	7.50	457.39
8	37.024877	-88.884806	450.18	7.50	457.68

Name: 213

Footprint area: 24.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029947	-88.882204	432.03	7.50	439.53
2	37.029934	-88.880933	421.04	7.50	428.54
3	37.029939	-88.880675	420.99	7.50	428.49
4	37.029005	-88.880654	421.83	7.50	429.33
5	37.028089	-88.880633	425.76	7.50	433.26
6	37.028110	-88.880241	422.63	7.50	430.13
7	37.027236	-88.880257	425.13	7.50	432.63
8	37.027258	-88.881325	439.20	7.50	446.70
9	37.026354	-88.881367	429.90	7.50	437.40
10	37.026367	-88.882151	437.75	7.50	445.25
11	37.025695	-88.882183	428.80	7.50	436.30
12	37.025695	-88.883143	439.54	7.50	447.04
13	37.025399	-88.883165	435.79	7.50	443.29
14	37.025416	-88.884093	448.93	7.50	456.43
15	37.026131	-88.884066	452.06	7.50	459.56
16	37.026136	-88.883964	451.39	7.50	458.89
17	37.028114	-88.883953	452.48	7.50	459.98
18	37.028119	-88.882322	445.84	7.50	453.34

Name: 214

Footprint area: 9.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024855	-88.882161	443.07	7.50	450.57
2	37.025412	-88.882135	436.26	7.50	443.76
3	37.025429	-88.881410	437.18	7.50	444.68
4	37.025772	-88.881389	430.47	7.50	437.97
5	37.025742	-88.879828	436.65	7.50	444.15
6	37.026572	-88.879860	426.32	7.50	433.82
7	37.026572	-88.878814	426.25	7.50	433.75
8	37.025772	-88.878771	429.51	7.50	437.01
9	37.025772	-88.878396	426.19	7.50	433.69
10	37.024885	-88.878331	429.53	7.50	437.03

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14
Description:
Threshold height : 50 ft
Direction: 142.6 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23
Description:
Threshold height : 50 ft
Direction: 224.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32
Description:
Threshold height : 50 ft
Direction: 323.3 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Bondurant Road

Route type: Two-way

View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.030561	-88.887694	447.45	5.00	452.45
2	37.030514	-88.884336	433.31	5.00	438.31
3	37.030416	-88.884116	433.62	5.00	438.62
4	37.030125	-88.884073	431.70	5.00	436.70
5	37.027504	-88.884266	455.15	5.00	460.15
6	37.026167	-88.884363	451.34	5.00	456.34
7	37.024223	-88.884497	451.07	5.00	456.07
8	37.022763	-88.884615	448.20	5.00	453.20
9	37.021422	-88.884711	464.10	5.00	469.10
10	37.020942	-88.884744	466.66	5.00	471.66
11	37.020857	-88.884620	467.69	5.00	472.69
12	37.020844	-88.884524	468.62	5.00	473.62
13	37.020861	-88.882260	453.42	5.00	458.42
14	37.020844	-88.881391	448.56	5.00	453.56
15	37.020869	-88.881090	445.24	5.00	450.24
16	37.020810	-88.880731	444.21	5.00	449.21
17	37.020767	-88.880114	446.66	5.00	451.66
18	37.020681	-88.880018	446.23	5.00	451.23
19	37.019079	-88.880001	457.75	5.00	462.75
20	37.017400	-88.880018	470.81	5.00	475.81
21	37.017267	-88.880098	471.35	5.00	476.35
22	37.017220	-88.880296	473.26	5.00	478.26
23	37.017250	-88.880613	472.79	5.00	477.79
24	37.017203	-88.880870	474.27	5.00	479.27
25	37.017036	-88.880903	475.67	5.00	480.67
26	37.013177	-88.880897	477.52	5.00	482.52

Name: Buchanan Lane

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.013142	-88.880071	476.30	5.00	481.30
2	37.013207	-88.881541	476.30	5.00	481.30
3	37.013305	-88.883703	462.73	5.00	467.73
4	37.013421	-88.885586	445.94	5.00	450.94
5	37.013511	-88.887200	457.92	5.00	462.92
6	37.013567	-88.888719	444.71	5.00	449.71
7	37.013571	-88.890677	456.15	5.00	461.15
8	37.013541	-88.892034	456.70	5.00	461.70

9	37.013502	-88.893171	458.58	5.00	463.58
10	37.013519	-88.893611	452.79	5.00	457.79
11	37.013678	-88.894158	436.73	5.00	441.73
12	37.014530	-88.896062	407.34	5.00	412.34
13	37.014787	-88.896599	406.39	5.00	411.39
14	37.014873	-88.897103	408.73	5.00	413.73
15	37.014954	-88.898015	406.00	5.00	411.00
16	37.015036	-88.898257	408.12	5.00	413.12

Name: County Line Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.033389	-88.869601	432.04	5.00	437.04
2	37.032978	-88.869671	438.10	5.00	443.10
3	37.032425	-88.869494	445.45	5.00	450.45
4	37.031162	-88.868673	447.90	5.00	452.90
5	37.029230	-88.867439	459.23	5.00	464.23
6	37.027713	-88.866397	471.51	5.00	476.51
7	37.027422	-88.865839	467.59	5.00	472.59
8	37.027277	-88.865072	465.66	5.00	470.66
9	37.026921	-88.864160	467.57	5.00	472.57
10	37.026441	-88.863763	474.72	5.00	479.72
11	37.025829	-88.863688	474.78	5.00	479.78
12	37.023773	-88.863742	478.06	5.00	483.06
13	37.021786	-88.863753	477.68	5.00	482.68
14	37.019983	-88.863779	474.74	5.00	479.74
15	37.016882	-88.863801	461.36	5.00	466.36
16	37.013627	-88.863833	471.01	5.00	476.01

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg

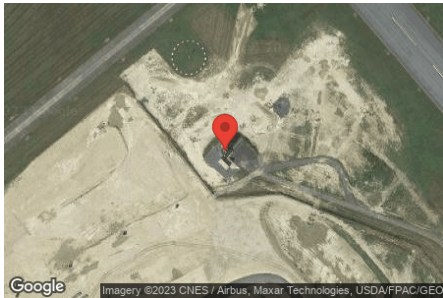


Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.015074	-88.898246	407.72	5.00	412.72
2	37.015267	-88.898160	410.58	5.00	415.58
3	37.017057	-88.898187	443.60	5.00	448.60
4	37.018308	-88.898106	448.37	5.00	453.37
5	37.019627	-88.898117	436.71	5.00	441.71
6	37.020338	-88.898112	446.63	5.00	451.63
7	37.020595	-88.897978	456.15	5.00	461.15
8	37.020728	-88.897666	459.19	5.00	464.19
9	37.020814	-88.890746	454.01	5.00	459.01
10	37.020848	-88.889754	455.16	5.00	460.16
11	37.020899	-88.889303	452.82	5.00	457.82
12	37.021238	-88.888939	455.41	5.00	460.41
13	37.022488	-88.888842	461.33	5.00	466.33
14	37.024934	-88.888676	469.78	5.00	474.78
15	37.026150	-88.888595	468.73	5.00	473.73
16	37.027713	-88.888477	453.57	5.00	458.57
17	37.029705	-88.888332	443.21	5.00	448.21
18	37.030210	-88.888236	446.62	5.00	451.62
19	37.030454	-88.888059	446.87	5.00	451.87
20	37.030566	-88.887780	448.49	5.00	453.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.021557	-88.893150	473.33	16.00	489.33
OP 3	37.020504	-88.890377	455.38	16.00	471.38
OP 4	37.021232	-88.895977	456.56	16.00	472.56
OP 5	37.023223	-88.888435	469.28	16.00	485.28
OP 6	37.023634	-88.888413	468.20	16.00	484.20
OP 7	37.026817	-88.888081	464.36	16.00	480.36
OP 8	37.027497	-88.887957	470.88	16.00	486.88
OP 9	37.028444	-88.887437	469.17	16.00	485.17
OP 10	37.029324	-88.883419	447.72	16.00	463.72
OP 11	37.031431	-88.886256	458.82	16.00	474.82
OP 12	37.033009	-88.886310	449.93	16.00	465.93
OP 13	37.009645	-88.880298	483.65	16.00	499.65
OP 14	37.011607	-88.880080	477.28	16.00	493.28
OP 15	37.011941	-88.880850	478.82	16.00	494.82
OP 16	37.013639	-88.881269	478.83	16.00	494.83
OP 17	37.012907	-88.883900	469.84	16.00	485.84
OP 18	37.012965	-88.884903	464.68	16.00	480.68
OP 19	37.013860	-88.887392	460.59	16.00	476.59
OP 20	37.018394	-88.897432	455.76	16.00	471.76
OP 21	37.020501	-88.899170	443.86	16.00	459.86
OP 22	37.021152	-88.869108	475.25	16.00	491.25
OP 23	37.020604	-88.864173	477.24	16.00	493.24
OP 24	37.019099	-88.863537	476.37	16.00	492.37
OP 25	37.017949	-88.864264	473.20	16.00	489.20

1-ATCT map image



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	
201	SA tracking	SA tracking	0	0	-	-
202	SA tracking	SA tracking	0	0	-	-
203	SA tracking	SA tracking	0	0	-	-
204	SA tracking	SA tracking	0	0	-	-
205	SA tracking	SA tracking	4,684	0	-	-
206	SA tracking	SA tracking	0	0	-	-
207	SA tracking	SA tracking	0	0	-	-
208	SA tracking	SA tracking	0	0	-	-
209	SA tracking	SA tracking	106	16	-	-
210	SA tracking	SA tracking	0	0	-	-
211	SA tracking	SA tracking	0	0	-	-
212	SA tracking	SA tracking	0	0	-	-
213	SA tracking	SA tracking	0	0	-	-
214	SA tracking	SA tracking	0	0	-	-

Distinct glare per month

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

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
205 (green)	895	0	0	0	0	0	0	0	0	0	560	935
205 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
209 (green)	0	0	0	0	0	27	79	0	0	0	0	0
209 (yellow)	0	0	0	0	0	11	5	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

201 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

205 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0

OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	1652	0
OP: OP 11	73	0
OP: OP 12	882	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	1871	0
Route: Buchanan Lane	0	0
Route: County Line Road	206	0
Route: Gage Road	0	0

205: Barkley Regional Airport Runway 14

No glare found

205: Barkley Regional Airport Runway 23

No glare found

205: Barkley Regional Airport Runway 32

No glare found

205: Barkley Regional Airport Runway 5

No glare found

205: 1-ATCT

No glare found

205: OP 2

No glare found

205: OP 3

No glare found

205: OP 4

No glare found

205: OP 5

No glare found

205: OP 6

No glare found

205: OP 7

No glare found

205: OP 8

No glare found

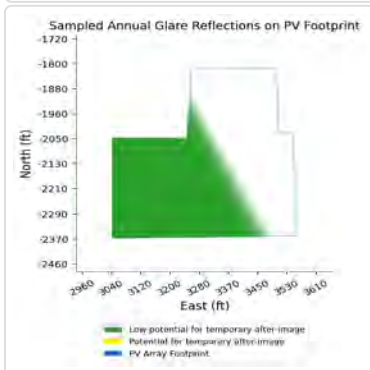
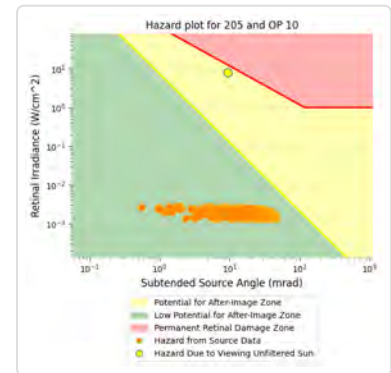
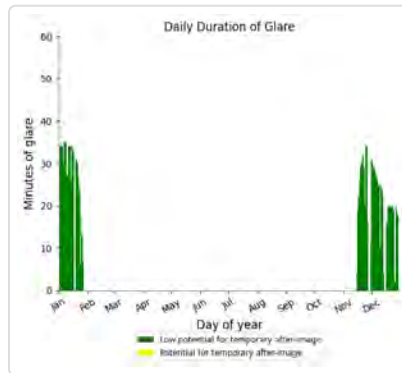
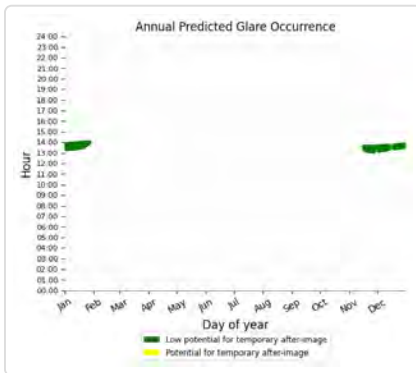
205: OP 9

No glare found

205: OP 10

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

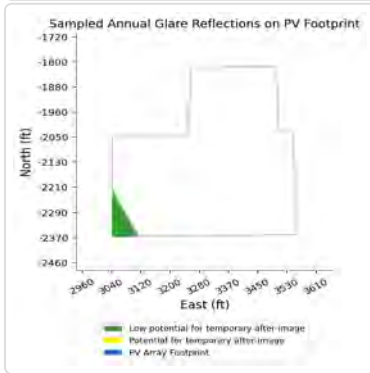
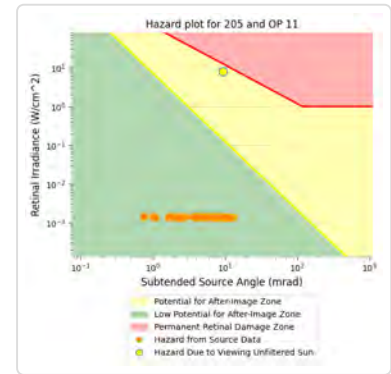
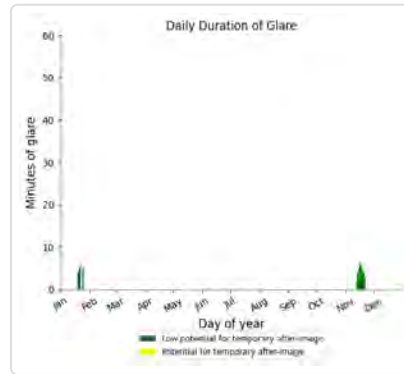
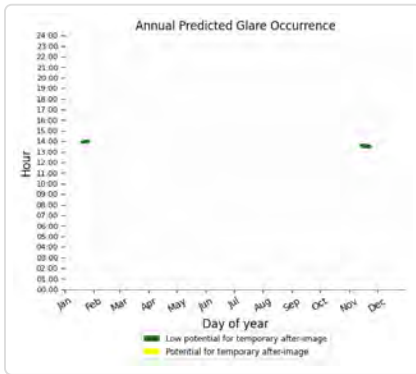
- 1,652 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 11

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

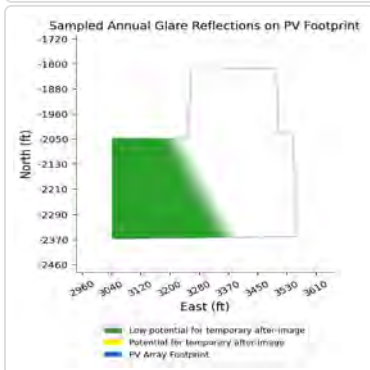
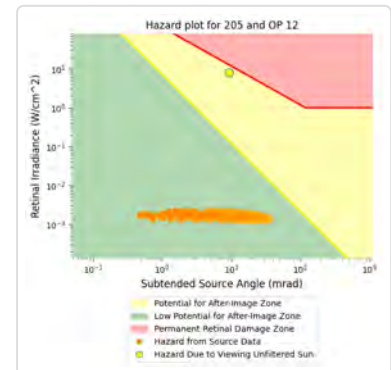
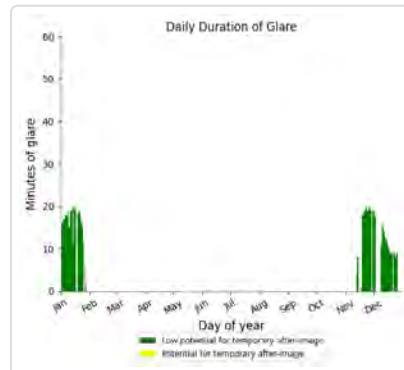
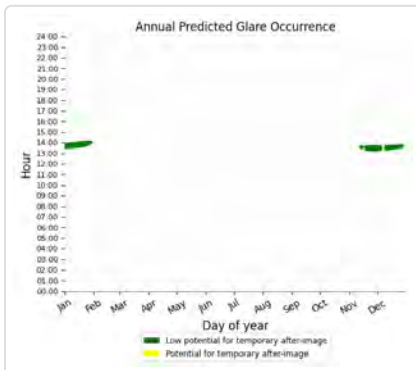
- 73 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 12

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

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



205: OP 13

No glare found

205: OP 14

No glare found

205: OP 15

No glare found

205: OP 16

No glare found

205: OP 17

No glare found

205: OP 18

No glare found

205: OP 19

No glare found

205: OP 20

No glare found

205: OP 21

No glare found

205: OP 22

No glare found

205: OP 23

No glare found

205: OP 24

No glare found

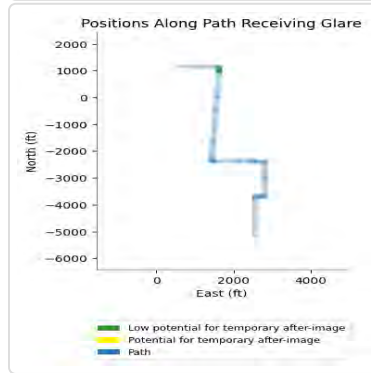
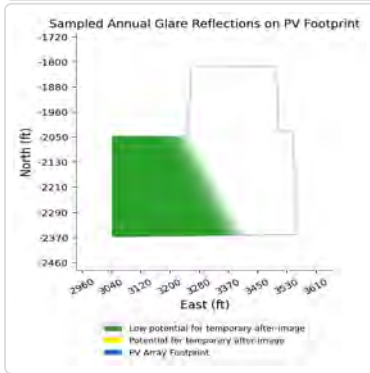
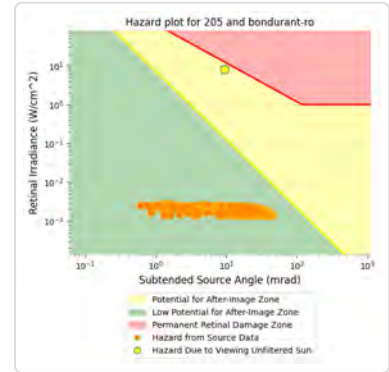
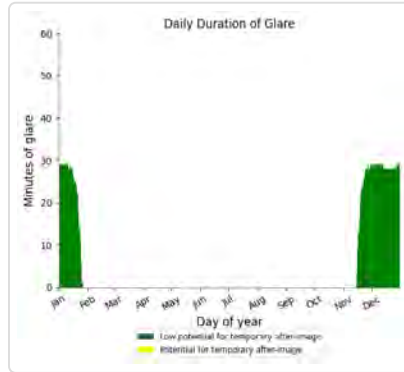
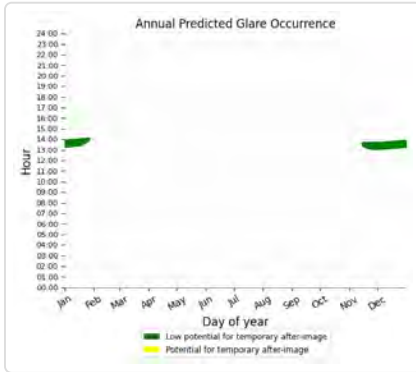
205: OP 25

No glare found

205: Bondurant Road

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

- 1,871 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



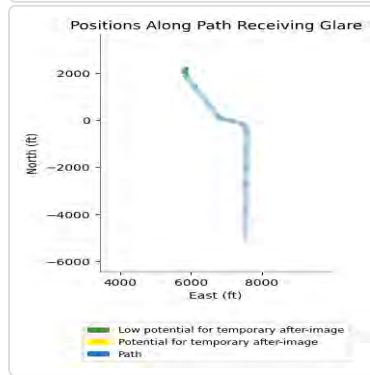
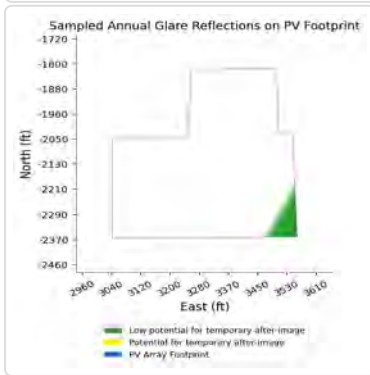
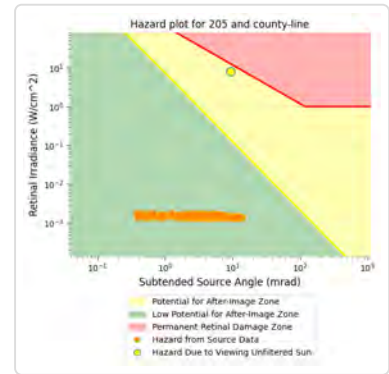
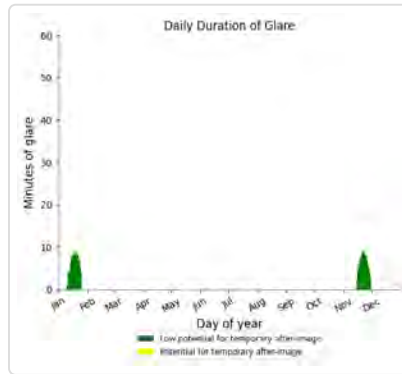
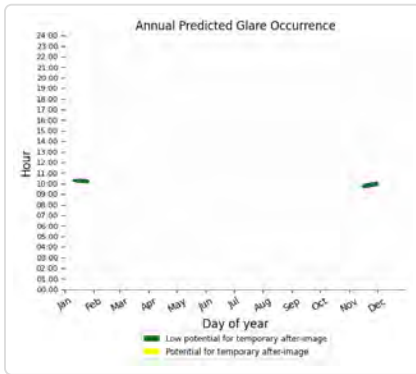
205: Buchanan Lane

No glare found

205: County Line Road

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

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



205: Gage Road

No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

209 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	106	16
OP: OP 3	0	0

OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

209: Barkley Regional Airport Runway 14

No glare found

209: Barkley Regional Airport Runway 23

No glare found

209: Barkley Regional Airport Runway 32

No glare found

209: Barkley Regional Airport Runway 5

No glare found

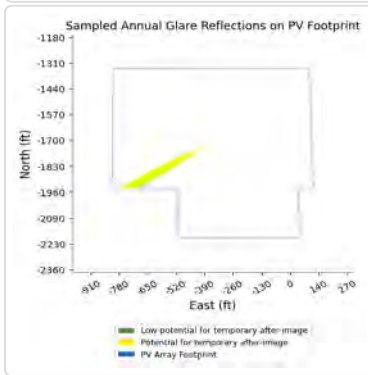
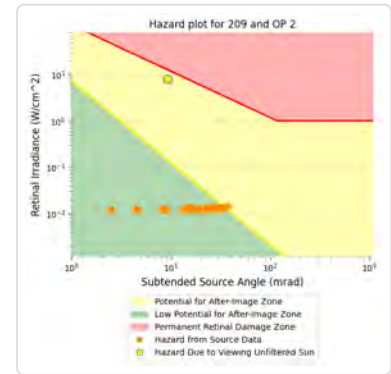
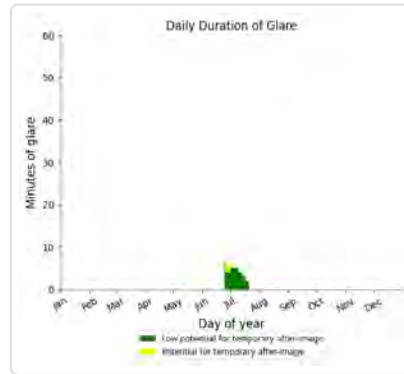
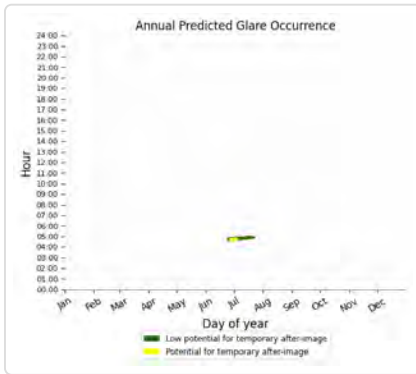
209: 1-ATCT

No glare found

209: OP 2

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

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



209: OP 3

No glare found

209: OP 4

No glare found

209: OP 5

No glare found

209: OP 6

No glare found

209: OP 7

No glare found

209: OP 8

No glare found

209: OP 9

No glare found

209: OP 10

No glare found

209: OP 11

No glare found

209: OP 12

No glare found

209: OP 13

No glare found

209: OP 14

No glare found

209: OP 15

No glare found

209: OP 16

No glare found

209: OP 17

No glare found

209: OP 18

No glare found

209: OP 19

No glare found

209: OP 20

No glare found

209: OP 21

No glare found

209: OP 22

No glare found

209: OP 23

No glare found

209: OP 24

No glare found

209: OP 25

No glare found

209: Bondurant Road

No glare found

209: Buchanan Lane

No glare found

209: County Line Road

No glare found

209: Gage Road

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

211 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

212 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.

- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 2 5ft vehicles 60 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98000.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
201	SA tracking	SA tracking	0	0	-
202	SA tracking	SA tracking	0	0	-
203	SA tracking	SA tracking	0	0	-
204	SA tracking	SA tracking	0	0	-
205	SA tracking	SA tracking	4,100	0	-
206	SA tracking	SA tracking	0	0	-
207	SA tracking	SA tracking	0	0	-
208	SA tracking	SA tracking	0	0	-
209	SA tracking	SA tracking	0	0	-
210	SA tracking	SA tracking	0	0	-
211	SA tracking	SA tracking	0	0	-
212	SA tracking	SA tracking	0	0	-
213	SA tracking	SA tracking	0	0	-
214	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 212.1 acres

Name: 201

Footprint area: 11.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027373	-88.889642	466.81	7.50	474.31
2	37.026487	-88.889642	471.28	7.50	478.78
3	37.026491	-88.888929	468.99	7.50	476.49
4	37.025596	-88.888902	469.68	7.50	477.18
5	37.025545	-88.892330	467.73	7.50	475.23
6	37.025532	-88.892598	467.38	7.50	474.88
7	37.026337	-88.892576	467.68	7.50	475.18
8	37.026346	-88.891697	472.53	7.50	480.03
9	37.027104	-88.891675	462.02	7.50	469.52
10	37.027099	-88.890946	472.32	7.50	479.82
11	37.027352	-88.890951	472.65	7.50	480.15

Name: 202

Footprint area: 22.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024872	-88.882934	438.15	7.50	445.65
2	37.024894	-88.878122	428.53	7.50	436.03
3	37.023973	-88.878074	430.21	7.50	437.71
4	37.023960	-88.878530	431.84	7.50	439.34
5	37.023061	-88.878535	432.59	7.50	440.09
6	37.023018	-88.883626	447.70	7.50	455.20
7	37.023866	-88.883562	438.99	7.50	446.49
8	37.023861	-88.882993	438.61	7.50	446.11

Name: 203

Footprint area: 19.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023052	-88.879383	444.26	7.50	451.76
2	37.022337	-88.879350	439.16	7.50	446.66
3	37.022337	-88.879511	440.91	7.50	448.41
4	37.022041	-88.879495	440.11	7.50	447.61
5	37.022041	-88.880155	444.02	7.50	451.52
6	37.021532	-88.880150	441.43	7.50	448.93
7	37.021519	-88.880488	446.53	7.50	454.03
8	37.021296	-88.880488	444.14	7.50	451.64
9	37.021163	-88.884313	462.60	7.50	470.10
10	37.022988	-88.884345	443.85	7.50	451.35
11	37.023009	-88.883626	447.76	7.50	455.26

Name: 204

Footprint area: 21.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020662	-88.883690	466.67	7.50	474.17
2	37.020666	-88.880305	448.31	7.50	455.81
3	37.018075	-88.880256	468.65	7.50	476.15
4	37.018101	-88.883679	471.87	7.50	479.37

Name: 205

Footprint area: 4.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022367	-88.878476	436.15	7.50	443.65
2	37.022375	-88.877666	431.55	7.50	439.05
3	37.021789	-88.877639	449.35	7.50	456.85
4	37.021793	-88.877505	448.74	7.50	456.24
5	37.020868	-88.877468	454.54	7.50	462.04
6	37.020851	-88.879238	455.72	7.50	463.22
7	37.021746	-88.879238	437.99	7.50	445.49
8	37.021746	-88.878524	441.10	7.50	448.60

Name: 206

Footprint area: 23.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017445	-88.880246	472.86	7.50	480.36
2	37.017407	-88.881147	475.42	7.50	482.92
3	37.017158	-88.881147	475.73	7.50	483.23
4	37.017154	-88.881206	475.76	7.50	483.26
5	37.014456	-88.881115	478.37	7.50	485.87
6	37.014486	-88.883625	464.20	7.50	471.70
7	37.018096	-88.883679	471.87	7.50	479.37
8	37.018071	-88.880251	468.66	7.50	476.16

Name: 207

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020274	-88.879793	448.99	7.50	456.49
2	37.020345	-88.877505	457.82	7.50	465.32
3	37.020067	-88.877497	458.22	7.50	465.72
4	37.020090	-88.877020	455.99	7.50	463.49
5	37.019521	-88.876977	454.08	7.50	461.58
6	37.019529	-88.876518	444.63	7.50	452.13
7	37.018658	-88.876478	445.45	7.50	452.95
8	37.018566	-88.879713	461.78	7.50	469.28

Name: 208

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

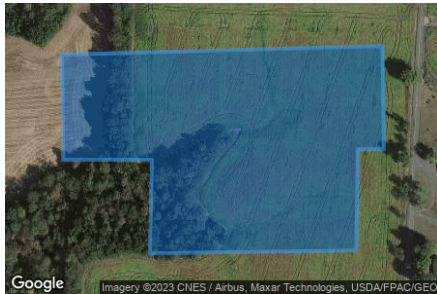
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025600	-88.889051	469.88	7.50	477.38
2	37.024692	-88.889035	470.58	7.50	478.08
3	37.024692	-88.889325	470.55	7.50	478.05
4	37.023801	-88.889341	470.64	7.50	478.14
5	37.023776	-88.891632	469.22	7.50	476.72
6	37.024598	-88.891610	462.63	7.50	470.13
7	37.024598	-88.892592	452.03	7.50	459.53
8	37.025523	-88.892608	467.43	7.50	474.93

Name: 209

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023690	-88.892431	464.64	7.50	472.14
2	37.023682	-88.889336	470.64	7.50	478.14
3	37.021990	-88.889277	460.59	7.50	468.09
4	37.021994	-88.889513	462.45	7.50	469.95
5	37.021322	-88.889481	459.56	7.50	467.06
6	37.021343	-88.891422	459.60	7.50	467.10
7	37.022011	-88.891396	470.27	7.50	477.77
8	37.022028	-88.892436	471.50	7.50	479.00

Name: 210

Footprint area: 12.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029339	-88.886016	453.14	7.50	460.64
2	37.029335	-88.884342	436.81	7.50	444.31
3	37.028380	-88.884412	447.41	7.50	454.91
4	37.028384	-88.884755	445.97	7.50	453.47
5	37.026716	-88.884747	450.76	7.50	458.26
6	37.026673	-88.887019	465.32	7.50	472.82
7	37.027515	-88.886979	468.64	7.50	476.14
8	37.027515	-88.886461	468.62	7.50	476.12
9	37.028202	-88.886410	462.24	7.50	469.74
10	37.028202	-88.886238	462.22	7.50	469.72
11	37.029039	-88.886236	453.07	7.50	460.57
12	37.029039	-88.886048	457.04	7.50	464.54

Name: 211

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.026592	-88.887258	468.21	7.50	475.71
2	37.026641	-88.884763	449.31	7.50	456.81
3	37.025776	-88.884728	455.41	7.50	462.91
4	37.025767	-88.884822	455.51	7.50	463.01
5	37.024879	-88.884798	450.01	7.50	457.51
6	37.024836	-88.887928	458.50	7.50	466.00
7	37.025727	-88.887885	471.11	7.50	478.61
8	37.025727	-88.887432	468.38	7.50	475.88
9	37.026320	-88.887381	468.45	7.50	475.95
10	37.026311	-88.887279	468.43	7.50	475.93

Name: 212

Footprint area: 10.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024842	-88.887381	460.51	7.50	468.01
2	37.023960	-88.887397	460.65	7.50	468.15
3	37.023960	-88.887306	460.27	7.50	467.77
4	37.023133	-88.887311	463.53	7.50	471.03
5	37.023121	-88.884972	443.33	7.50	450.83
6	37.023990	-88.884972	449.09	7.50	456.59
7	37.023977	-88.884806	449.89	7.50	457.39
8	37.024877	-88.884806	450.18	7.50	457.68

Name: 213

Footprint area: 24.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029947	-88.882204	432.03	7.50	439.53
2	37.029934	-88.880933	421.04	7.50	428.54
3	37.029939	-88.880675	420.99	7.50	428.49
4	37.029005	-88.880654	421.83	7.50	429.33
5	37.028089	-88.880633	425.76	7.50	433.26
6	37.028110	-88.880241	422.63	7.50	430.13
7	37.027236	-88.880257	425.13	7.50	432.63
8	37.027258	-88.881325	439.20	7.50	446.70
9	37.026354	-88.881367	429.90	7.50	437.40
10	37.026367	-88.882151	437.75	7.50	445.25
11	37.025695	-88.882183	428.80	7.50	436.30
12	37.025695	-88.883143	439.54	7.50	447.04
13	37.025399	-88.883165	435.79	7.50	443.29
14	37.025416	-88.884093	448.93	7.50	456.43
15	37.026131	-88.884066	452.06	7.50	459.56
16	37.026136	-88.883964	451.39	7.50	458.89
17	37.028114	-88.883953	452.48	7.50	459.98
18	37.028119	-88.882322	445.84	7.50	453.34

Name: 214

Footprint area: 9.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024855	-88.882161	443.07	7.50	450.57
2	37.025412	-88.882135	436.26	7.50	443.76
3	37.025429	-88.881410	437.18	7.50	444.68
4	37.025772	-88.881389	430.47	7.50	437.97
5	37.025742	-88.879828	436.65	7.50	444.15
6	37.026572	-88.879860	426.32	7.50	433.82
7	37.026572	-88.878814	426.25	7.50	433.75
8	37.025772	-88.878771	429.51	7.50	437.01
9	37.025772	-88.878396	426.19	7.50	433.69
10	37.024885	-88.878331	429.53	7.50	437.03

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14
Description:
Threshold height : 50 ft
Direction: 142.6 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23
Description:
Threshold height : 50 ft
Direction: 224.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32
Description:
Threshold height : 50 ft
Direction: 323.3 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17

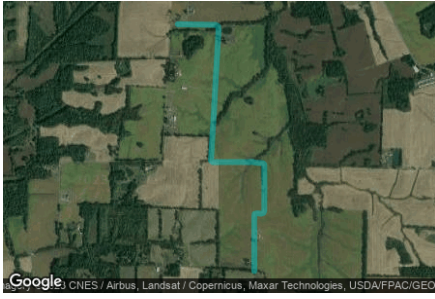


Route Receptor(s)

Name: Bondurant Road

Route type: Two-way

View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.030561	-88.887694	447.45	5.00	452.45
2	37.030514	-88.884336	433.31	5.00	438.31
3	37.030416	-88.884116	433.62	5.00	438.62
4	37.030125	-88.884073	431.70	5.00	436.70
5	37.027504	-88.884266	455.15	5.00	460.15
6	37.026167	-88.884363	451.34	5.00	456.34
7	37.024223	-88.884497	451.07	5.00	456.07
8	37.022763	-88.884615	448.20	5.00	453.20
9	37.021422	-88.884711	464.10	5.00	469.10
10	37.020942	-88.884744	466.66	5.00	471.66
11	37.020857	-88.884620	467.69	5.00	472.69
12	37.020844	-88.884524	468.62	5.00	473.62
13	37.020861	-88.882260	453.42	5.00	458.42
14	37.020844	-88.881391	448.56	5.00	453.56
15	37.020869	-88.881090	445.24	5.00	450.24
16	37.020810	-88.880731	444.21	5.00	449.21
17	37.020767	-88.880114	446.66	5.00	451.66
18	37.020681	-88.880018	446.23	5.00	451.23
19	37.019079	-88.880001	457.75	5.00	462.75
20	37.017400	-88.880018	470.81	5.00	475.81
21	37.017267	-88.880098	471.35	5.00	476.35
22	37.017220	-88.880296	473.26	5.00	478.26
23	37.017250	-88.880613	472.79	5.00	477.79
24	37.017203	-88.880870	474.27	5.00	479.27
25	37.017036	-88.880903	475.67	5.00	480.67
26	37.013177	-88.880897	477.52	5.00	482.52

Name: Buchanan Lane

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.013142	-88.880071	476.30	5.00	481.30
2	37.013207	-88.881541	476.30	5.00	481.30
3	37.013305	-88.883703	462.73	5.00	467.73
4	37.013421	-88.885586	445.94	5.00	450.94
5	37.013511	-88.887200	457.92	5.00	462.92
6	37.013567	-88.888719	444.71	5.00	449.71
7	37.013571	-88.890677	456.15	5.00	461.15
8	37.013541	-88.892034	456.70	5.00	461.70

9	37.013502	-88.893171	458.58	5.00	463.58
10	37.013519	-88.893611	452.79	5.00	457.79
11	37.013678	-88.894158	436.73	5.00	441.73
12	37.014530	-88.896062	407.34	5.00	412.34
13	37.014787	-88.896599	406.39	5.00	411.39
14	37.014873	-88.897103	408.73	5.00	413.73
15	37.014954	-88.898015	406.00	5.00	411.00
16	37.015036	-88.898257	408.12	5.00	413.12

Name: County Line Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.033389	-88.869601	432.04	5.00	437.04
2	37.032978	-88.869671	438.10	5.00	443.10
3	37.032425	-88.869494	445.45	5.00	450.45
4	37.031162	-88.868673	447.90	5.00	452.90
5	37.029230	-88.867439	459.23	5.00	464.23
6	37.027713	-88.866397	471.51	5.00	476.51
7	37.027422	-88.865839	467.59	5.00	472.59
8	37.027277	-88.865072	465.66	5.00	470.66
9	37.026921	-88.864160	467.57	5.00	472.57
10	37.026441	-88.863763	474.72	5.00	479.72
11	37.025829	-88.863688	474.78	5.00	479.78
12	37.023773	-88.863742	478.06	5.00	483.06
13	37.021786	-88.863753	477.68	5.00	482.68
14	37.019983	-88.863779	474.74	5.00	479.74
15	37.016882	-88.863801	461.36	5.00	466.36
16	37.013627	-88.863833	471.01	5.00	476.01

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.015074	-88.898246	407.72	5.00	412.72
2	37.015267	-88.898160	410.58	5.00	415.58
3	37.017057	-88.898187	443.60	5.00	448.60
4	37.018308	-88.898106	448.37	5.00	453.37
5	37.019627	-88.898117	436.71	5.00	441.71
6	37.020338	-88.898112	446.63	5.00	451.63
7	37.020595	-88.897978	456.15	5.00	461.15
8	37.020728	-88.897666	459.19	5.00	464.19
9	37.020814	-88.890746	454.01	5.00	459.01
10	37.020848	-88.889754	455.16	5.00	460.16
11	37.020899	-88.889303	452.82	5.00	457.82
12	37.021238	-88.888939	455.41	5.00	460.41
13	37.022488	-88.888842	461.33	5.00	466.33
14	37.024934	-88.888676	469.78	5.00	474.78
15	37.026150	-88.888595	468.73	5.00	473.73
16	37.027713	-88.888477	453.57	5.00	458.57
17	37.029705	-88.888332	443.21	5.00	448.21
18	37.030210	-88.888236	446.62	5.00	451.62
19	37.030454	-88.888059	446.87	5.00	451.87
20	37.030566	-88.887780	448.49	5.00	453.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.021557	-88.893150	473.33	16.00	489.33
OP 3	37.020504	-88.890377	455.38	16.00	471.38
OP 4	37.021232	-88.895977	456.56	16.00	472.56
OP 5	37.023223	-88.888435	469.28	16.00	485.28
OP 6	37.023634	-88.888413	468.20	16.00	484.20
OP 7	37.026817	-88.888081	464.36	16.00	480.36
OP 8	37.027497	-88.887957	470.88	16.00	486.88
OP 9	37.028444	-88.887437	469.17	16.00	485.17
OP 10	37.029324	-88.883419	447.72	16.00	463.72
OP 11	37.031431	-88.886256	458.82	16.00	474.82
OP 12	37.033009	-88.886310	449.93	16.00	465.93
OP 13	37.009645	-88.880298	483.65	16.00	499.65
OP 14	37.011607	-88.880080	477.28	16.00	493.28
OP 15	37.011941	-88.880850	478.82	16.00	494.82
OP 16	37.013639	-88.881269	478.83	16.00	494.83
OP 17	37.012907	-88.883900	469.84	16.00	485.84
OP 18	37.012965	-88.884903	464.68	16.00	480.68
OP 19	37.013860	-88.887392	460.59	16.00	476.59
OP 20	37.018394	-88.897432	455.76	16.00	471.76
OP 21	37.020501	-88.899170	443.86	16.00	459.86
OP 22	37.021152	-88.869108	475.25	16.00	491.25
OP 23	37.020604	-88.864173	477.24	16.00	493.24
OP 24	37.019099	-88.863537	476.37	16.00	492.37
OP 25	37.017949	-88.864264	473.20	16.00	489.20

1-ATCT map image



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	
201	SA tracking	SA tracking	0	0	-	-
202	SA tracking	SA tracking	0	0	-	-
203	SA tracking	SA tracking	0	0	-	-
204	SA tracking	SA tracking	0	0	-	-
205	SA tracking	SA tracking	4,100	0	-	-
206	SA tracking	SA tracking	0	0	-	-
207	SA tracking	SA tracking	0	0	-	-
208	SA tracking	SA tracking	0	0	-	-
209	SA tracking	SA tracking	0	0	-	-
210	SA tracking	SA tracking	0	0	-	-
211	SA tracking	SA tracking	0	0	-	-
212	SA tracking	SA tracking	0	0	-	-
213	SA tracking	SA tracking	0	0	-	-
214	SA tracking	SA tracking	0	0	-	-

Distinct glare per month

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

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
205 (green)	842	0	0	0	0	0	0	0	0	0	540	928
205 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

201 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

205 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0

OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	1251	0
OP: OP 11	63	0
OP: OP 12	709	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	1871	0
Route: Buchanan Lane	0	0
Route: County Line Road	206	0
Route: Gage Road	0	0

205: Barkley Regional Airport Runway 14

No glare found

205: Barkley Regional Airport Runway 23

No glare found

205: Barkley Regional Airport Runway 32

No glare found

205: Barkley Regional Airport Runway 5

No glare found

205: 1-ATCT

No glare found

205: OP 2

No glare found

205: OP 3

No glare found

205: OP 4

No glare found

205: OP 5

No glare found

205: OP 6

No glare found

205: OP 7

No glare found

205: OP 8

No glare found

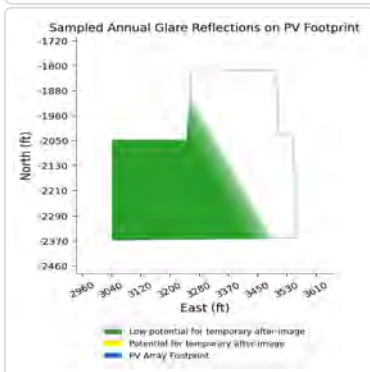
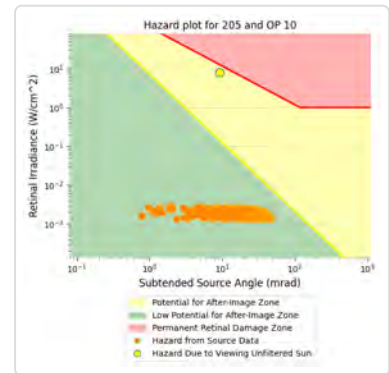
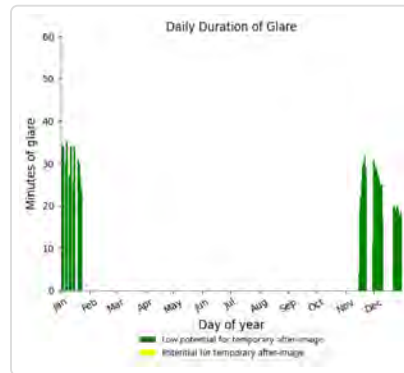
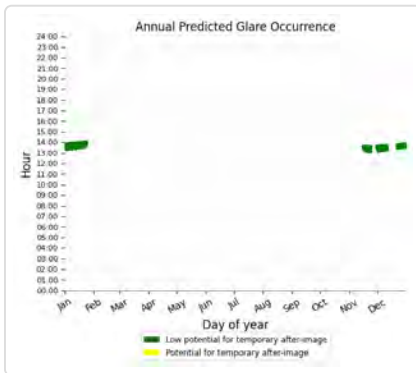
205: OP 9

No glare found

205: OP 10

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

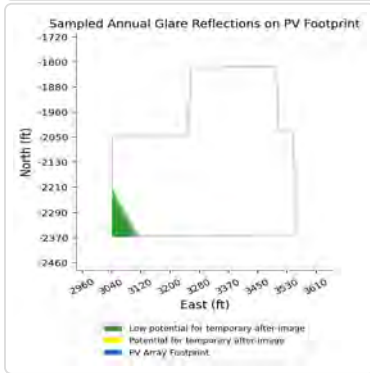
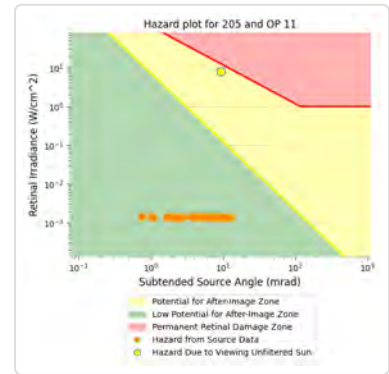
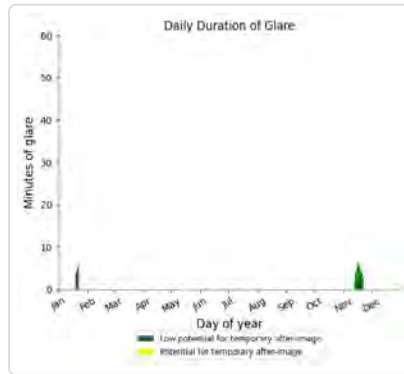
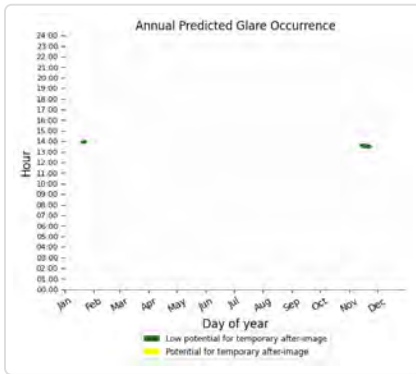
- 1,251 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 11

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

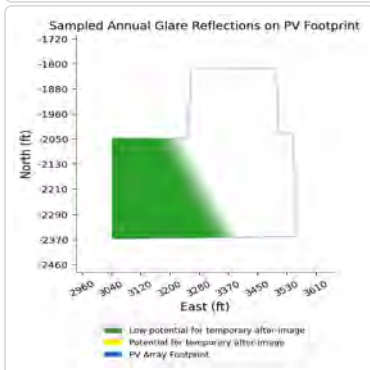
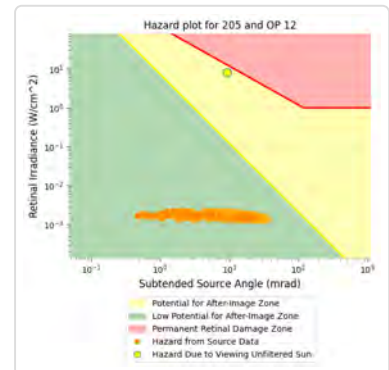
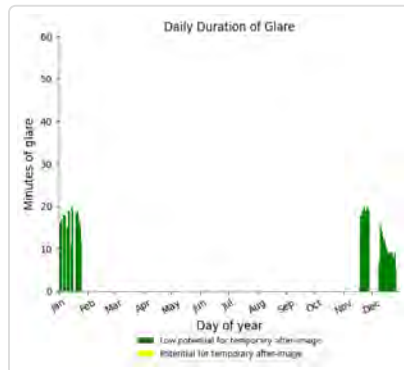
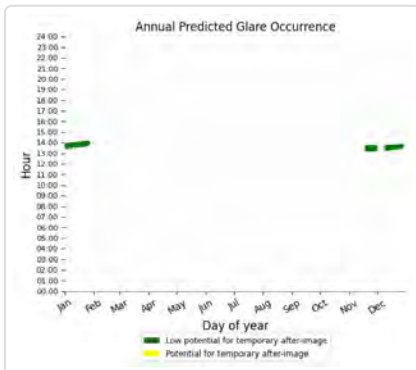
- 63 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 12

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

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



205: OP 13

No glare found

205: OP 14

No glare found

205: OP 15

No glare found

205: OP 16

No glare found

205: OP 17

No glare found

205: OP 18

No glare found

205: OP 19

No glare found

205: OP 20

No glare found

205: OP 21

No glare found

205: OP 22

No glare found

205: OP 23

No glare found

205: OP 24

No glare found

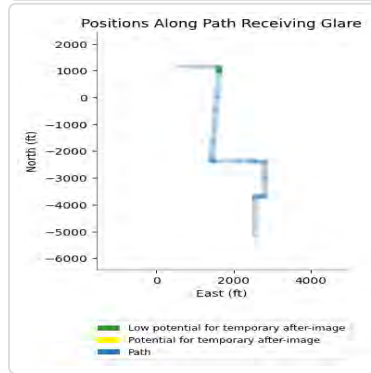
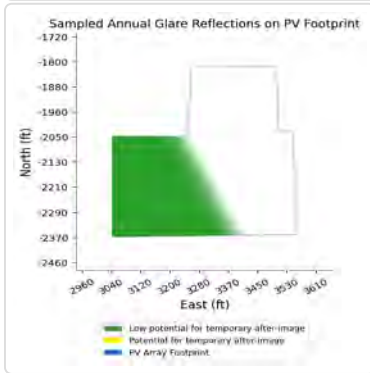
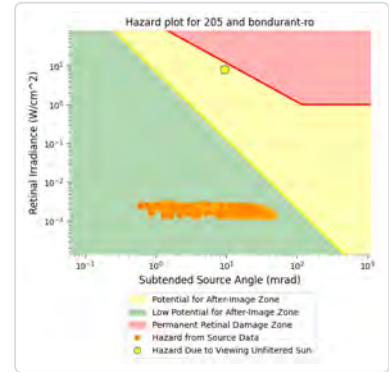
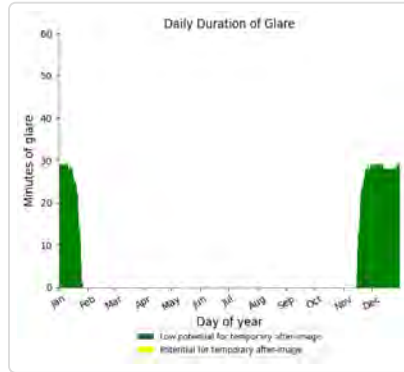
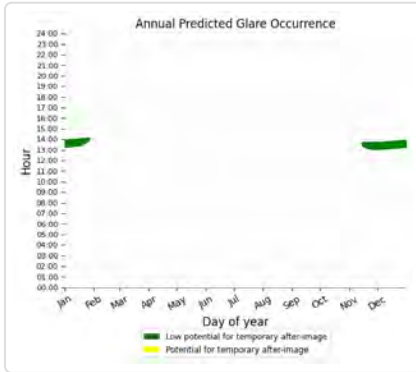
205: OP 25

No glare found

205: Bondurant Road

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

- 1,871 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



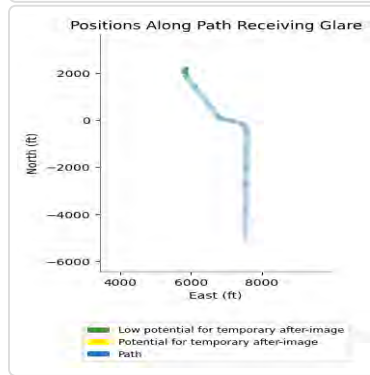
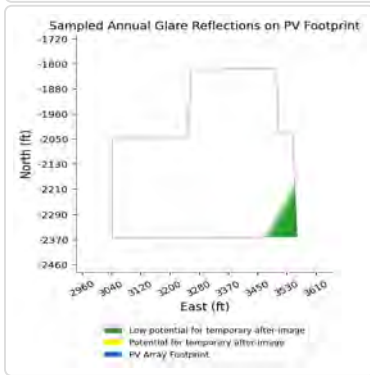
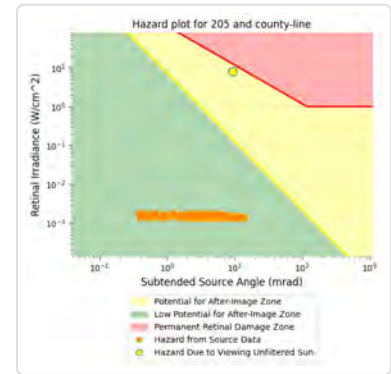
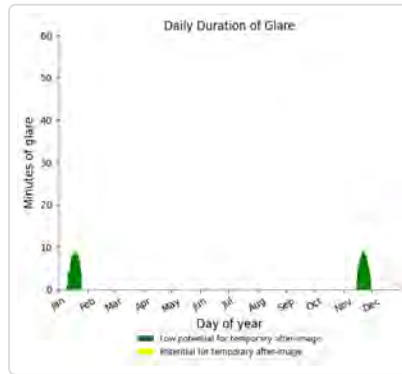
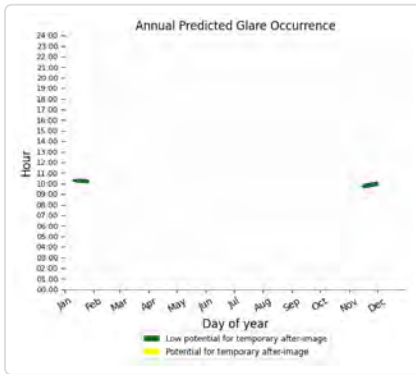
205: Buchanan Lane

No glare found

205: County Line Road

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

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



205: Gage Road

No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

209 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

212 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

213 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.

- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 2 5ft vehicles 60 deg resting w trees

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98039.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
201	SA tracking	SA tracking	0	0	-
202	SA tracking	SA tracking	0	0	-
203	SA tracking	SA tracking	0	0	-
204	SA tracking	SA tracking	0	0	-
205	SA tracking	SA tracking	0	0	-
206	SA tracking	SA tracking	0	0	-
207	SA tracking	SA tracking	0	0	-
208	SA tracking	SA tracking	0	0	-
209	SA tracking	SA tracking	0	0	-
210	SA tracking	SA tracking	0	0	-
211	SA tracking	SA tracking	0	0	-
212	SA tracking	SA tracking	0	0	-
213	SA tracking	SA tracking	0	0	-
214	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 212.1 acres

Name: 201

Footprint area: 11.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027373	-88.889642	466.81	7.50	474.31
2	37.026487	-88.889642	471.28	7.50	478.78
3	37.026491	-88.888929	468.99	7.50	476.49
4	37.025596	-88.888902	469.68	7.50	477.18
5	37.025545	-88.892330	467.73	7.50	475.23
6	37.025532	-88.892598	467.38	7.50	474.88
7	37.026337	-88.892576	467.68	7.50	475.18
8	37.026346	-88.891697	472.53	7.50	480.03
9	37.027104	-88.891675	462.02	7.50	469.52
10	37.027099	-88.890946	472.32	7.50	479.82
11	37.027352	-88.890951	472.65	7.50	480.15

Name: 202

Footprint area: 22.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024872	-88.882934	438.15	7.50	445.65
2	37.024894	-88.878122	428.53	7.50	436.03
3	37.023973	-88.878074	430.21	7.50	437.71
4	37.023960	-88.878530	431.84	7.50	439.34
5	37.023061	-88.878535	432.59	7.50	440.09
6	37.023018	-88.883626	447.70	7.50	455.20
7	37.023866	-88.883562	438.99	7.50	446.49
8	37.023861	-88.882993	438.61	7.50	446.11

Name: 203

Footprint area: 19.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023052	-88.879383	444.26	7.50	451.76
2	37.022337	-88.879350	439.16	7.50	446.66
3	37.022337	-88.879511	440.91	7.50	448.41
4	37.022041	-88.879495	440.11	7.50	447.61
5	37.022041	-88.880155	444.02	7.50	451.52
6	37.021532	-88.880150	441.43	7.50	448.93
7	37.021519	-88.880488	446.53	7.50	454.03
8	37.021296	-88.880488	444.14	7.50	451.64
9	37.021163	-88.884313	462.60	7.50	470.10
10	37.022988	-88.884345	443.85	7.50	451.35
11	37.023009	-88.883626	447.76	7.50	455.26

Name: 204

Footprint area: 21.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020662	-88.883690	466.67	7.50	474.17
2	37.020666	-88.880305	448.31	7.50	455.81
3	37.018075	-88.880256	468.65	7.50	476.15
4	37.018101	-88.883679	471.87	7.50	479.37

Name: 205

Footprint area: 4.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022367	-88.878476	436.15	7.50	443.65
2	37.022375	-88.877666	431.55	7.50	439.05
3	37.021789	-88.877639	449.35	7.50	456.85
4	37.021793	-88.877505	448.74	7.50	456.24
5	37.020868	-88.877468	454.54	7.50	462.04
6	37.020851	-88.879238	455.72	7.50	463.22
7	37.021746	-88.879238	437.99	7.50	445.49
8	37.021746	-88.878524	441.10	7.50	448.60

Name: 206

Footprint area: 23.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017445	-88.880246	472.86	7.50	480.36
2	37.017407	-88.881147	475.42	7.50	482.92
3	37.017158	-88.881147	475.73	7.50	483.23
4	37.017154	-88.881206	475.76	7.50	483.26
5	37.014456	-88.881115	478.37	7.50	485.87
6	37.014486	-88.883625	464.20	7.50	471.70
7	37.018096	-88.883679	471.87	7.50	479.37
8	37.018071	-88.880251	468.66	7.50	476.16

Name: 207

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020274	-88.879793	448.99	7.50	456.49
2	37.020345	-88.877505	457.82	7.50	465.32
3	37.020067	-88.877497	458.22	7.50	465.72
4	37.020090	-88.877020	455.99	7.50	463.49
5	37.019521	-88.876977	454.08	7.50	461.58
6	37.019529	-88.876518	444.63	7.50	452.13
7	37.018658	-88.876478	445.45	7.50	452.95
8	37.018566	-88.879713	461.78	7.50	469.28

Name: 208

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

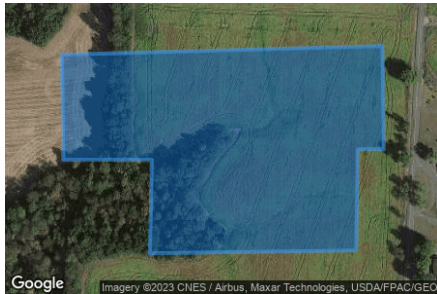
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025600	-88.889051	469.88	7.50	477.38
2	37.024692	-88.889035	470.58	7.50	478.08
3	37.024692	-88.889325	470.55	7.50	478.05
4	37.023801	-88.889341	470.64	7.50	478.14
5	37.023776	-88.891632	469.22	7.50	476.72
6	37.024598	-88.891610	462.63	7.50	470.13
7	37.024598	-88.892592	452.03	7.50	459.53
8	37.025523	-88.892608	467.43	7.50	474.93

Name: 209

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023690	-88.892431	464.64	7.50	472.14
2	37.023682	-88.889336	470.64	7.50	478.14
3	37.021990	-88.889277	460.59	7.50	468.09
4	37.021994	-88.889513	462.45	7.50	469.95
5	37.021322	-88.889481	459.56	7.50	467.06
6	37.021343	-88.891422	459.60	7.50	467.10
7	37.022011	-88.891396	470.27	7.50	477.77
8	37.022028	-88.892436	471.50	7.50	479.00

Name: 210

Footprint area: 12.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029339	-88.886016	453.14	7.50	460.64
2	37.029335	-88.884342	436.81	7.50	444.31
3	37.028380	-88.884412	447.41	7.50	454.91
4	37.028384	-88.884755	445.97	7.50	453.47
5	37.026716	-88.884747	450.76	7.50	458.26
6	37.026673	-88.887019	465.32	7.50	472.82
7	37.027515	-88.886979	468.64	7.50	476.14
8	37.027515	-88.886461	468.62	7.50	476.12
9	37.028202	-88.886410	462.24	7.50	469.74
10	37.028202	-88.886238	462.22	7.50	469.72
11	37.029039	-88.886236	453.07	7.50	460.57
12	37.029039	-88.886048	457.04	7.50	464.54

Name: 211

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.026592	-88.887258	468.21	7.50	475.71
2	37.026641	-88.884763	449.31	7.50	456.81
3	37.025776	-88.884728	455.41	7.50	462.91
4	37.025767	-88.884822	455.51	7.50	463.01
5	37.024879	-88.884798	450.01	7.50	457.51
6	37.024836	-88.887928	458.50	7.50	466.00
7	37.025727	-88.887885	471.11	7.50	478.61
8	37.025727	-88.887432	468.38	7.50	475.88
9	37.026320	-88.887381	468.45	7.50	475.95
10	37.026311	-88.887279	468.43	7.50	475.93

Name: 212

Footprint area: 10.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024842	-88.887381	460.51	7.50	468.01
2	37.023960	-88.887397	460.65	7.50	468.15
3	37.023960	-88.887306	460.27	7.50	467.77
4	37.023133	-88.887311	463.53	7.50	471.03
5	37.023121	-88.884972	443.33	7.50	450.83
6	37.023990	-88.884972	449.09	7.50	456.59
7	37.023977	-88.884806	449.89	7.50	457.39
8	37.024877	-88.884806	450.18	7.50	457.68

Name: 213

Footprint area: 24.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029947	-88.882204	432.03	7.50	439.53
2	37.029934	-88.880933	421.04	7.50	428.54
3	37.029939	-88.880675	420.99	7.50	428.49
4	37.029005	-88.880654	421.83	7.50	429.33
5	37.028089	-88.880633	425.76	7.50	433.26
6	37.028110	-88.880241	422.63	7.50	430.13
7	37.027236	-88.880257	425.13	7.50	432.63
8	37.027258	-88.881325	439.20	7.50	446.70
9	37.026354	-88.881367	429.90	7.50	437.40
10	37.026367	-88.882151	437.75	7.50	445.25
11	37.025695	-88.882183	428.80	7.50	436.30
12	37.025695	-88.883143	439.54	7.50	447.04
13	37.025399	-88.883165	435.79	7.50	443.29
14	37.025416	-88.884093	448.93	7.50	456.43
15	37.026131	-88.884066	452.06	7.50	459.56
16	37.026136	-88.883964	451.39	7.50	458.89
17	37.028114	-88.883953	452.48	7.50	459.98
18	37.028119	-88.882322	445.84	7.50	453.34

Name: 214

Footprint area: 9.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024855	-88.882161	443.07	7.50	450.57
2	37.025412	-88.882135	436.26	7.50	443.76
3	37.025429	-88.881410	437.18	7.50	444.68
4	37.025772	-88.881389	430.47	7.50	437.97
5	37.025742	-88.879828	436.65	7.50	444.15
6	37.026572	-88.879860	426.32	7.50	433.82
7	37.026572	-88.878814	426.25	7.50	433.75
8	37.025772	-88.878771	429.51	7.50	437.01
9	37.025772	-88.878396	426.19	7.50	433.69
10	37.024885	-88.878331	429.53	7.50	437.03

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14
Description:
Threshold height : 50 ft
Direction: 142.6 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23
Description:
Threshold height : 50 ft
Direction: 224.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32
Description:
Threshold height : 50 ft
Direction: 323.3 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Bondurant Road

Route type: Two-way

View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.030561	-88.887694	447.45	5.00	452.45
2	37.030514	-88.884336	433.31	5.00	438.31
3	37.030416	-88.884116	433.62	5.00	438.62
4	37.030125	-88.884073	431.70	5.00	436.70
5	37.027504	-88.884266	455.15	5.00	460.15
6	37.026167	-88.884363	451.34	5.00	456.34
7	37.024223	-88.884497	451.07	5.00	456.07
8	37.022763	-88.884615	448.20	5.00	453.20
9	37.021422	-88.884711	464.10	5.00	469.10
10	37.020942	-88.884744	466.66	5.00	471.66
11	37.020857	-88.884620	467.69	5.00	472.69
12	37.020844	-88.884524	468.62	5.00	473.62
13	37.020861	-88.882260	453.42	5.00	458.42
14	37.020844	-88.881391	448.56	5.00	453.56
15	37.020869	-88.881090	445.24	5.00	450.24
16	37.020810	-88.880731	444.21	5.00	449.21
17	37.020767	-88.880114	446.66	5.00	451.66
18	37.020681	-88.880018	446.23	5.00	451.23
19	37.019079	-88.880001	457.75	5.00	462.75
20	37.017400	-88.880018	470.81	5.00	475.81
21	37.017267	-88.880098	471.35	5.00	476.35
22	37.017220	-88.880296	473.26	5.00	478.26
23	37.017250	-88.880613	472.79	5.00	477.79
24	37.017203	-88.880870	474.27	5.00	479.27
25	37.017036	-88.880903	475.67	5.00	480.67
26	37.013177	-88.880897	477.52	5.00	482.52

Name: Buchanan Lane

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.013142	-88.880071	476.30	5.00	481.30
2	37.013207	-88.881541	476.30	5.00	481.30
3	37.013305	-88.883703	462.73	5.00	467.73
4	37.013421	-88.885586	445.94	5.00	450.94
5	37.013511	-88.887200	457.92	5.00	462.92
6	37.013567	-88.888719	444.71	5.00	449.71
7	37.013571	-88.890677	456.15	5.00	461.15
8	37.013541	-88.892034	456.70	5.00	461.70

9	37.013502	-88.893171	458.58	5.00	463.58
10	37.013519	-88.893611	452.79	5.00	457.79
11	37.013678	-88.894158	436.73	5.00	441.73
12	37.014530	-88.896062	407.34	5.00	412.34
13	37.014787	-88.896599	406.39	5.00	411.39
14	37.014873	-88.897103	408.73	5.00	413.73
15	37.014954	-88.898015	406.00	5.00	411.00
16	37.015036	-88.898257	408.12	5.00	413.12

Name: County Line Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.033389	-88.869601	432.04	5.00	437.04
2	37.032978	-88.869671	438.10	5.00	443.10
3	37.032425	-88.869494	445.45	5.00	450.45
4	37.031162	-88.868673	447.90	5.00	452.90
5	37.029230	-88.867439	459.23	5.00	464.23
6	37.027713	-88.866397	471.51	5.00	476.51
7	37.027422	-88.865839	467.59	5.00	472.59
8	37.027277	-88.865072	465.66	5.00	470.66
9	37.026921	-88.864160	467.57	5.00	472.57
10	37.026441	-88.863763	474.72	5.00	479.72
11	37.025829	-88.863688	474.78	5.00	479.78
12	37.023773	-88.863742	478.06	5.00	483.06
13	37.021786	-88.863753	477.68	5.00	482.68
14	37.019983	-88.863779	474.74	5.00	479.74
15	37.016882	-88.863801	461.36	5.00	466.36
16	37.013627	-88.863833	471.01	5.00	476.01

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg

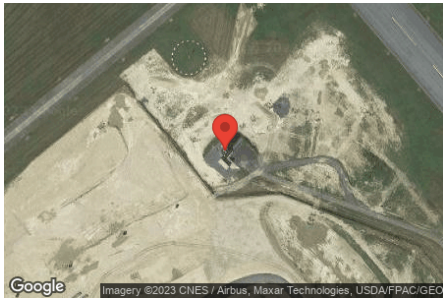


Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.015074	-88.898246	407.72	5.00	412.72
2	37.015267	-88.898160	410.58	5.00	415.58
3	37.017057	-88.898187	443.60	5.00	448.60
4	37.018308	-88.898106	448.37	5.00	453.37
5	37.019627	-88.898117	436.71	5.00	441.71
6	37.020338	-88.898112	446.63	5.00	451.63
7	37.020595	-88.897978	456.15	5.00	461.15
8	37.020728	-88.897666	459.19	5.00	464.19
9	37.020814	-88.890746	454.01	5.00	459.01
10	37.020848	-88.889754	455.16	5.00	460.16
11	37.020899	-88.889303	452.82	5.00	457.82
12	37.021238	-88.888939	455.41	5.00	460.41
13	37.022488	-88.888842	461.33	5.00	466.33
14	37.024934	-88.888676	469.78	5.00	474.78
15	37.026150	-88.888595	468.73	5.00	473.73
16	37.027713	-88.888477	453.57	5.00	458.57
17	37.029705	-88.888332	443.21	5.00	448.21
18	37.030210	-88.888236	446.62	5.00	451.62
19	37.030454	-88.888059	446.87	5.00	451.87
20	37.030566	-88.887780	448.49	5.00	453.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.021557	-88.893150	473.33	16.00	489.33
OP 3	37.020504	-88.890377	455.38	16.00	471.38
OP 4	37.021232	-88.895977	456.56	16.00	472.56
OP 5	37.023223	-88.888435	469.28	16.00	485.28
OP 6	37.023634	-88.888413	468.20	16.00	484.20
OP 7	37.026817	-88.888081	464.36	16.00	480.36
OP 8	37.027497	-88.887957	470.88	16.00	486.88
OP 9	37.028444	-88.887437	469.17	16.00	485.17
OP 10	37.029324	-88.883419	447.72	16.00	463.72
OP 11	37.031431	-88.886256	458.82	16.00	474.82
OP 12	37.033009	-88.886310	449.93	16.00	465.93
OP 13	37.009645	-88.880298	483.65	16.00	499.65
OP 14	37.011607	-88.880080	477.28	16.00	493.28
OP 15	37.011941	-88.880850	478.82	16.00	494.82
OP 16	37.013639	-88.881269	478.83	16.00	494.83
OP 17	37.012907	-88.883900	469.84	16.00	485.84
OP 18	37.012965	-88.884903	464.68	16.00	480.68
OP 19	37.013860	-88.887392	460.59	16.00	476.59
OP 20	37.018394	-88.897432	455.76	16.00	471.76
OP 21	37.020501	-88.899170	443.86	16.00	459.86
OP 22	37.021152	-88.869108	475.25	16.00	491.25
OP 23	37.020604	-88.864173	477.24	16.00	493.24
OP 24	37.019099	-88.863537	476.37	16.00	492.37
OP 25	37.017949	-88.864264	473.20	16.00	489.20

1-ATCT map image



Obstruction Components

Name: Trees

Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.022846	-88.877480	441.44
2	37.022255	-88.877233	457.34
3	37.021600	-88.877083	453.58
4	37.020996	-88.877051	453.43
5	37.020559	-88.877126	457.44

Name: Trees

Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.023652	-88.884207	443.27
2	37.024226	-88.883542	441.49
3	37.024936	-88.883199	438.68
4	37.025433	-88.882769	434.90
5	37.025605	-88.882072	430.86
6	37.026136	-88.881450	433.58
7	37.026829	-88.880323	430.20
8	37.027138	-88.879840	427.95

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
201	SA tracking	SA tracking	0	0	-	-
202	SA tracking	SA tracking	0	0	-	-
203	SA tracking	SA tracking	0	0	-	-
204	SA tracking	SA tracking	0	0	-	-
205	SA tracking	SA tracking	0	0	-	-
206	SA tracking	SA tracking	0	0	-	-
207	SA tracking	SA tracking	0	0	-	-
208	SA tracking	SA tracking	0	0	-	-
209	SA tracking	SA tracking	0	0	-	-
210	SA tracking	SA tracking	0	0	-	-
211	SA tracking	SA tracking	0	0	-	-
212	SA tracking	SA tracking	0	0	-	-
213	SA tracking	SA tracking	0	0	-	-
214	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

201 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

205 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

209 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

212 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.

- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 2 9ft vehicles 0 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98060.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
201	SA tracking	SA tracking	0	0	-
202	SA tracking	SA tracking	2,507	224	-
203	SA tracking	SA tracking	199	560	-
204	SA tracking	SA tracking	1,929	280	-
205	SA tracking	SA tracking	10,023	396	-
206	SA tracking	SA tracking	55	0	-
207	SA tracking	SA tracking	152	0	-
208	SA tracking	SA tracking	0	0	-
209	SA tracking	SA tracking	1,741	3,603	-
210	SA tracking	SA tracking	1,852	631	-
211	SA tracking	SA tracking	196	0	-
212	SA tracking	SA tracking	2,130	333	-
213	SA tracking	SA tracking	0	0	-
214	SA tracking	SA tracking	2,456	109	-

Component Data

PV Array(s)

Total PV footprint area: 212.1 acres

Name: 201

Footprint area: 11.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027373	-88.889642	466.81	7.50	474.31
2	37.026487	-88.889642	471.28	7.50	478.78
3	37.026491	-88.888929	468.99	7.50	476.49
4	37.025596	-88.888902	469.68	7.50	477.18
5	37.025545	-88.892330	467.73	7.50	475.23
6	37.025532	-88.892598	467.38	7.50	474.88
7	37.026337	-88.892576	467.68	7.50	475.18
8	37.026346	-88.891697	472.53	7.50	480.03
9	37.027104	-88.891675	462.02	7.50	469.52
10	37.027099	-88.890946	472.32	7.50	479.82
11	37.027352	-88.890951	472.65	7.50	480.15

Name: 202

Footprint area: 22.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024872	-88.882934	438.15	7.50	445.65
2	37.024894	-88.878122	428.53	7.50	436.03
3	37.023973	-88.878074	430.21	7.50	437.71
4	37.023960	-88.878530	431.84	7.50	439.34
5	37.023061	-88.878535	432.59	7.50	440.09
6	37.023018	-88.883626	447.70	7.50	455.20
7	37.023866	-88.883562	438.99	7.50	446.49
8	37.023861	-88.882993	438.61	7.50	446.11

Name: 203

Footprint area: 19.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023052	-88.879383	444.26	7.50	451.76
2	37.022337	-88.879350	439.16	7.50	446.66
3	37.022337	-88.879511	440.91	7.50	448.41
4	37.022041	-88.879495	440.11	7.50	447.61
5	37.022041	-88.880155	444.02	7.50	451.52
6	37.021532	-88.880150	441.43	7.50	448.93
7	37.021519	-88.880488	446.53	7.50	454.03
8	37.021296	-88.880488	444.14	7.50	451.64
9	37.021163	-88.884313	462.60	7.50	470.10
10	37.022988	-88.884345	443.85	7.50	451.35
11	37.023009	-88.883626	447.76	7.50	455.26

Name: 204

Footprint area: 21.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020662	-88.883690	466.67	7.50	474.17
2	37.020666	-88.880305	448.31	7.50	455.81
3	37.018075	-88.880256	468.65	7.50	476.15
4	37.018101	-88.883679	471.87	7.50	479.37

Name: 205

Footprint area: 4.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022367	-88.878476	436.15	7.50	443.65
2	37.022375	-88.877666	431.55	7.50	439.05
3	37.021789	-88.877639	449.35	7.50	456.85
4	37.021793	-88.877505	448.74	7.50	456.24
5	37.020868	-88.877468	454.54	7.50	462.04
6	37.020851	-88.879238	455.72	7.50	463.22
7	37.021746	-88.879238	437.99	7.50	445.49
8	37.021746	-88.878524	441.10	7.50	448.60

Name: 206

Footprint area: 23.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017445	-88.880246	472.86	7.50	480.36
2	37.017407	-88.881147	475.42	7.50	482.92
3	37.017158	-88.881147	475.73	7.50	483.23
4	37.017154	-88.881206	475.76	7.50	483.26
5	37.014456	-88.881115	478.37	7.50	485.87
6	37.014486	-88.883625	464.20	7.50	471.70
7	37.018096	-88.883679	471.87	7.50	479.37
8	37.018071	-88.880251	468.66	7.50	476.16

Name: 207

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020274	-88.879793	448.99	7.50	456.49
2	37.020345	-88.877505	457.82	7.50	465.32
3	37.020067	-88.877497	458.22	7.50	465.72
4	37.020090	-88.877020	455.99	7.50	463.49
5	37.019521	-88.876977	454.08	7.50	461.58
6	37.019529	-88.876518	444.63	7.50	452.13
7	37.018658	-88.876478	445.45	7.50	452.95
8	37.018566	-88.879713	461.78	7.50	469.28

Name: 208

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

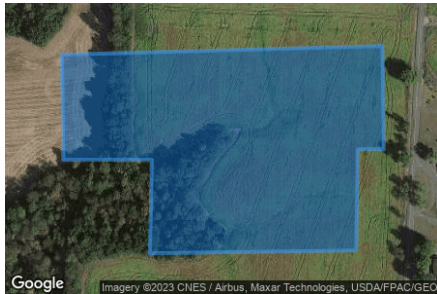
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025600	-88.889051	469.88	7.50	477.38
2	37.024692	-88.889035	470.58	7.50	478.08
3	37.024692	-88.889325	470.55	7.50	478.05
4	37.023801	-88.889341	470.64	7.50	478.14
5	37.023776	-88.891632	469.22	7.50	476.72
6	37.024598	-88.891610	462.63	7.50	470.13
7	37.024598	-88.892592	452.03	7.50	459.53
8	37.025523	-88.892608	467.43	7.50	474.93

Name: 209

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023690	-88.892431	464.64	7.50	472.14
2	37.023682	-88.889336	470.64	7.50	478.14
3	37.021990	-88.889277	460.59	7.50	468.09
4	37.021994	-88.889513	462.45	7.50	469.95
5	37.021322	-88.889481	459.56	7.50	467.06
6	37.021343	-88.891422	459.60	7.50	467.10
7	37.022011	-88.891396	470.27	7.50	477.77
8	37.022028	-88.892436	471.50	7.50	479.00

Name: 210

Footprint area: 12.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029339	-88.886016	453.14	7.50	460.64
2	37.029335	-88.884342	436.81	7.50	444.31
3	37.028380	-88.884412	447.41	7.50	454.91
4	37.028384	-88.884755	445.97	7.50	453.47
5	37.026716	-88.884747	450.76	7.50	458.26
6	37.026673	-88.887019	465.32	7.50	472.82
7	37.027515	-88.886979	468.64	7.50	476.14
8	37.027515	-88.886461	468.62	7.50	476.12
9	37.028202	-88.886410	462.24	7.50	469.74
10	37.028202	-88.886238	462.22	7.50	469.72
11	37.029039	-88.886236	453.07	7.50	460.57
12	37.029039	-88.886048	457.04	7.50	464.54

Name: 211

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.026592	-88.887258	468.21	7.50	475.71
2	37.026641	-88.884763	449.31	7.50	456.81
3	37.025776	-88.884728	455.41	7.50	462.91
4	37.025767	-88.884822	455.51	7.50	463.01
5	37.024879	-88.884798	450.01	7.50	457.51
6	37.024836	-88.887928	458.50	7.50	466.00
7	37.025727	-88.887885	471.11	7.50	478.61
8	37.025727	-88.887432	468.38	7.50	475.88
9	37.026320	-88.887381	468.45	7.50	475.95
10	37.026311	-88.887279	468.43	7.50	475.93

Name: 212

Footprint area: 10.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024842	-88.887381	460.51	7.50	468.01
2	37.023960	-88.887397	460.65	7.50	468.15
3	37.023960	-88.887306	460.27	7.50	467.77
4	37.023133	-88.887311	463.53	7.50	471.03
5	37.023121	-88.884972	443.33	7.50	450.83
6	37.023990	-88.884972	449.09	7.50	456.59
7	37.023977	-88.884806	449.89	7.50	457.39
8	37.024877	-88.884806	450.18	7.50	457.68

Name: 213

Footprint area: 24.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029947	-88.882204	432.03	7.50	439.53
2	37.029934	-88.880933	421.04	7.50	428.54
3	37.029939	-88.880675	420.99	7.50	428.49
4	37.029005	-88.880654	421.83	7.50	429.33
5	37.028089	-88.880633	425.76	7.50	433.26
6	37.028110	-88.880241	422.63	7.50	430.13
7	37.027236	-88.880257	425.13	7.50	432.63
8	37.027258	-88.881325	439.20	7.50	446.70
9	37.026354	-88.881367	429.90	7.50	437.40
10	37.026367	-88.882151	437.75	7.50	445.25
11	37.025695	-88.882183	428.80	7.50	436.30
12	37.025695	-88.883143	439.54	7.50	447.04
13	37.025399	-88.883165	435.79	7.50	443.29
14	37.025416	-88.884093	448.93	7.50	456.43
15	37.026131	-88.884066	452.06	7.50	459.56
16	37.026136	-88.883964	451.39	7.50	458.89
17	37.028114	-88.883953	452.48	7.50	459.98
18	37.028119	-88.882322	445.84	7.50	453.34

Name: 214

Footprint area: 9.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024855	-88.882161	443.07	7.50	450.57
2	37.025412	-88.882135	436.26	7.50	443.76
3	37.025429	-88.881410	437.18	7.50	444.68
4	37.025772	-88.881389	430.47	7.50	437.97
5	37.025742	-88.879828	436.65	7.50	444.15
6	37.026572	-88.879860	426.32	7.50	433.82
7	37.026572	-88.878814	426.25	7.50	433.75
8	37.025772	-88.878771	429.51	7.50	437.01
9	37.025772	-88.878396	426.19	7.50	433.69
10	37.024885	-88.878331	429.53	7.50	437.03

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14
Description:
Threshold height : 50 ft
Direction: 142.6 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23
Description:
Threshold height : 50 ft
Direction: 224.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32
Description:
Threshold height : 50 ft
Direction: 323.3 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Bondurant Road

Route type: Two-way

View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.030561	-88.887694	447.45	9.00	456.45
2	37.030514	-88.884336	433.31	9.00	442.31
3	37.030416	-88.884116	433.62	9.00	442.62
4	37.030125	-88.884073	431.70	9.00	440.70
5	37.027504	-88.884266	455.15	9.00	464.15
6	37.026167	-88.884363	451.34	9.00	460.34
7	37.024223	-88.884497	451.07	9.00	460.07
8	37.022763	-88.884615	448.20	9.00	457.20
9	37.021422	-88.884711	464.10	9.00	473.10
10	37.020942	-88.884744	466.66	9.00	475.66
11	37.020857	-88.884620	467.69	9.00	476.69
12	37.020844	-88.884524	468.62	9.00	477.62
13	37.020861	-88.882260	453.42	9.00	462.42
14	37.020844	-88.881391	448.56	9.00	457.56
15	37.020869	-88.881090	445.24	9.00	454.24
16	37.020810	-88.880731	444.21	9.00	453.21
17	37.020767	-88.880114	446.66	9.00	455.66
18	37.020681	-88.880018	446.23	9.00	455.23
19	37.019079	-88.880001	457.75	9.00	466.75
20	37.017400	-88.880018	470.81	9.00	479.81
21	37.017267	-88.880098	471.35	9.00	480.35
22	37.017220	-88.880296	473.26	9.00	482.26
23	37.017250	-88.880613	472.79	9.00	481.79
24	37.017203	-88.880870	474.27	9.00	483.27
25	37.017036	-88.880903	475.67	9.00	484.67
26	37.013177	-88.880897	477.52	9.00	486.52

Name: Buchanan Lane

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.013142	-88.880071	476.30	9.00	485.30
2	37.013207	-88.881541	476.30	9.00	485.30
3	37.013305	-88.883703	462.73	9.00	471.73
4	37.013421	-88.885586	445.94	9.00	454.94
5	37.013511	-88.887200	457.92	9.00	466.92
6	37.013567	-88.888719	444.71	9.00	453.71
7	37.013571	-88.890677	456.15	9.00	465.15
8	37.013541	-88.892034	456.70	9.00	465.70

9	37.013502	-88.893171	458.58	9.00	467.58
10	37.013519	-88.893611	452.79	9.00	461.79
11	37.013678	-88.894158	436.73	9.00	445.73
12	37.014530	-88.896062	407.34	9.00	416.34
13	37.014787	-88.896599	406.39	9.00	415.39
14	37.014873	-88.897103	408.73	9.00	417.73
15	37.014954	-88.898015	406.00	9.00	415.00
16	37.015036	-88.898257	408.12	9.00	417.12

Name: County Line Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.033389	-88.869601	432.04	9.00	441.04
2	37.032978	-88.869671	438.10	9.00	447.10
3	37.032425	-88.869494	445.45	9.00	454.45
4	37.031162	-88.868673	447.90	9.00	456.90
5	37.029230	-88.867439	459.23	9.00	468.23
6	37.027713	-88.866397	471.51	9.00	480.51
7	37.027422	-88.865839	467.59	9.00	476.59
8	37.027277	-88.865072	465.66	9.00	474.66
9	37.026921	-88.864160	467.57	9.00	476.57
10	37.026441	-88.863763	474.72	9.00	483.72
11	37.025829	-88.863688	474.78	9.00	483.78
12	37.023773	-88.863742	478.06	9.00	487.06
13	37.021786	-88.863753	477.68	9.00	486.68
14	37.019983	-88.863779	474.74	9.00	483.74
15	37.016882	-88.863801	461.36	9.00	470.36
16	37.013627	-88.863833	471.01	9.00	480.01

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg

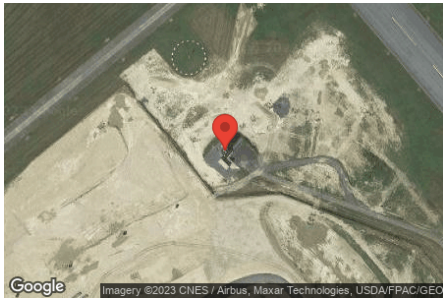


Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.015074	-88.898246	407.72	9.00	416.72
2	37.015267	-88.898160	410.58	9.00	419.58
3	37.017057	-88.898187	443.60	9.00	452.60
4	37.018308	-88.898106	448.37	9.00	457.37
5	37.019627	-88.898117	436.71	9.00	445.71
6	37.020338	-88.898112	446.63	9.00	455.63
7	37.020595	-88.897978	456.15	9.00	465.15
8	37.020728	-88.897666	459.19	9.00	468.19
9	37.020814	-88.890746	454.01	9.00	463.01
10	37.020848	-88.889754	455.16	9.00	464.16
11	37.020899	-88.889303	452.82	9.00	461.82
12	37.021238	-88.888939	455.41	9.00	464.41
13	37.022488	-88.888842	461.33	9.00	470.33
14	37.024934	-88.888676	469.78	9.00	478.78
15	37.026150	-88.888595	468.73	9.00	477.73
16	37.027713	-88.888477	453.57	9.00	462.57
17	37.029705	-88.888332	443.21	9.00	452.21
18	37.030210	-88.888236	446.62	9.00	455.62
19	37.030454	-88.888059	446.87	9.00	455.87
20	37.030566	-88.887780	448.49	9.00	457.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.021557	-88.893150	473.33	16.00	489.33
OP 3	37.020504	-88.890377	455.38	16.00	471.38
OP 4	37.021232	-88.895977	456.56	16.00	472.56
OP 5	37.023223	-88.888435	469.28	16.00	485.28
OP 6	37.023634	-88.888413	468.20	16.00	484.20
OP 7	37.026817	-88.888081	464.36	16.00	480.36
OP 8	37.027497	-88.887957	470.88	16.00	486.88
OP 9	37.028444	-88.887437	469.17	16.00	485.17
OP 10	37.029324	-88.883419	447.72	16.00	463.72
OP 11	37.031431	-88.886256	458.82	16.00	474.82
OP 12	37.033009	-88.886310	449.93	16.00	465.93
OP 13	37.009645	-88.880298	483.65	16.00	499.65
OP 14	37.011607	-88.880080	477.28	16.00	493.28
OP 15	37.011941	-88.880850	478.82	16.00	494.82
OP 16	37.013639	-88.881269	478.83	16.00	494.83
OP 17	37.012907	-88.883900	469.84	16.00	485.84
OP 18	37.012965	-88.884903	464.68	16.00	480.68
OP 19	37.013860	-88.887392	460.59	16.00	476.59
OP 20	37.018394	-88.897432	455.76	16.00	471.76
OP 21	37.020501	-88.899170	443.86	16.00	459.86
OP 22	37.021152	-88.869108	475.25	16.00	491.25
OP 23	37.020604	-88.864173	477.24	16.00	493.24
OP 24	37.019099	-88.863537	476.37	16.00	492.37
OP 25	37.017949	-88.864264	473.20	16.00	489.20

1-ATCT map image



PV & Receptor Analysis Results

Results for each PV array and receptor

201 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

202 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
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FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	566	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	23	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	56	0
OP: OP 7	284	81
OP: OP 8	429	29
OP: OP 9	274	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	42	0
Route: Buchanan Lane	0	0
Route: County Line Road	833	114
Route: Gage Road	0	0

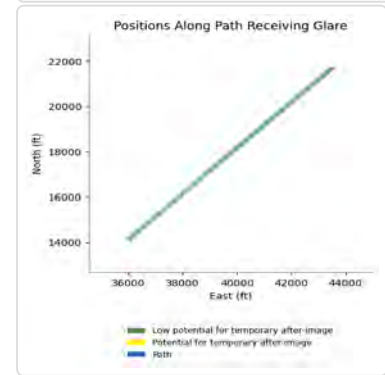
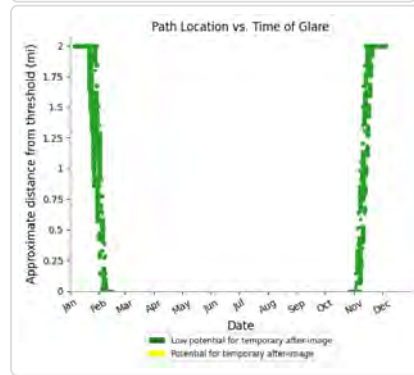
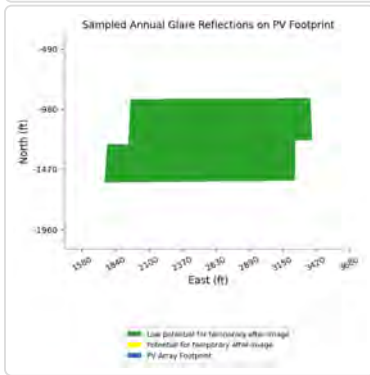
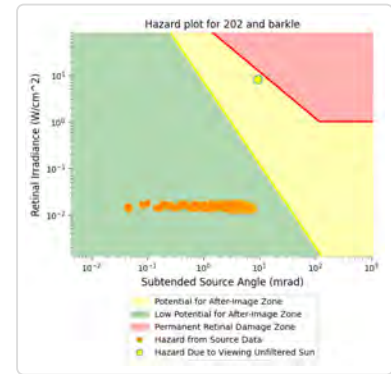
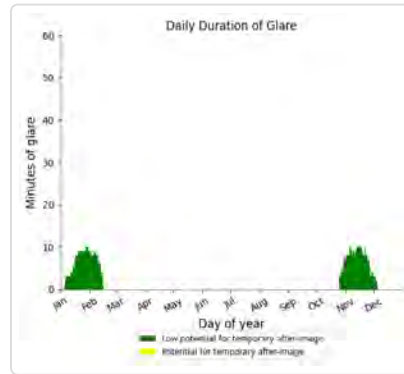
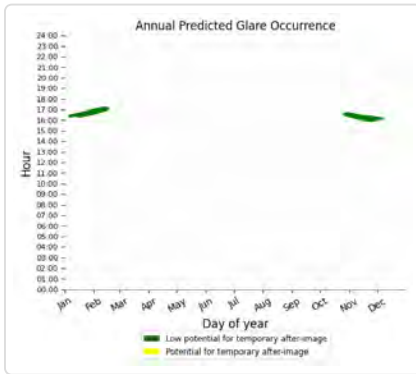
202: Barkley Regional Airport Runway 14

No glare found

202: Barkley Regional Airport Runway 23

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

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



202: Barkley Regional Airport Runway 32

No glare found

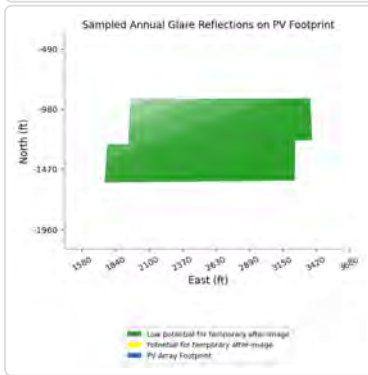
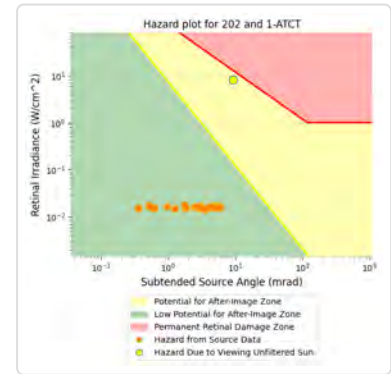
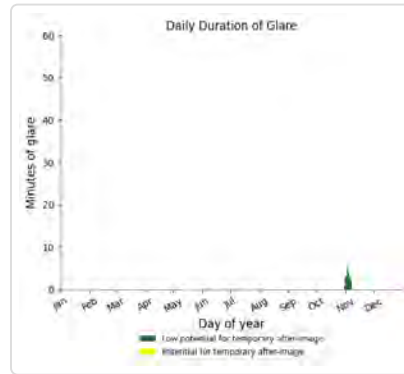
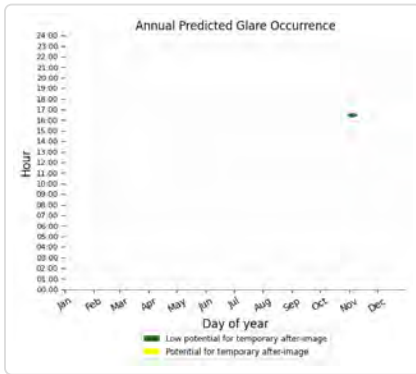
202: Barkley Regional Airport Runway 5

No glare found

202: 1-ATCT

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

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



202: OP 2

No glare found

202: OP 3

No glare found

202: OP 4

No glare found

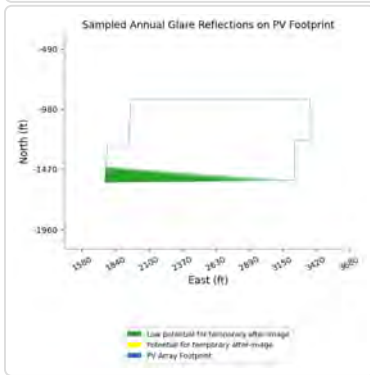
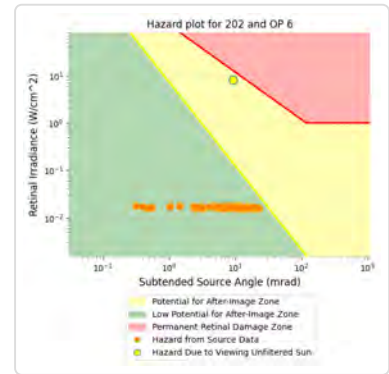
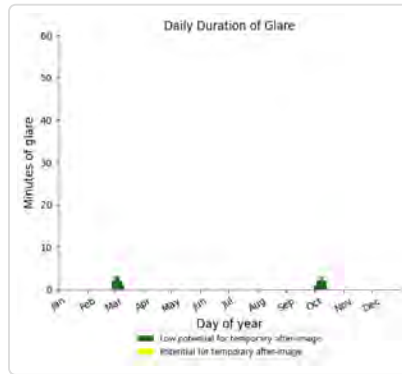
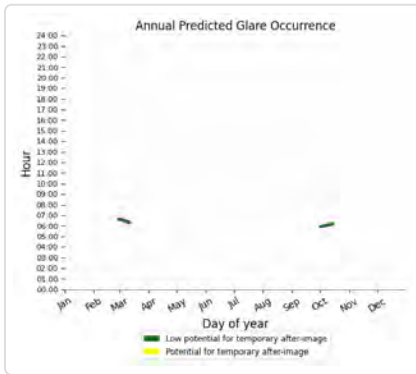
202: OP 5

No glare found

202: OP 6

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

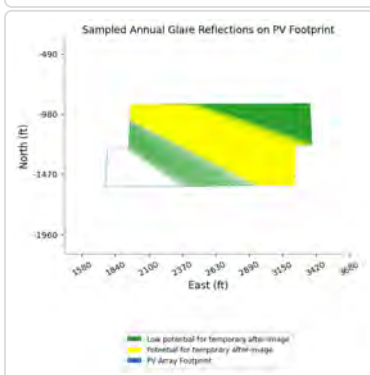
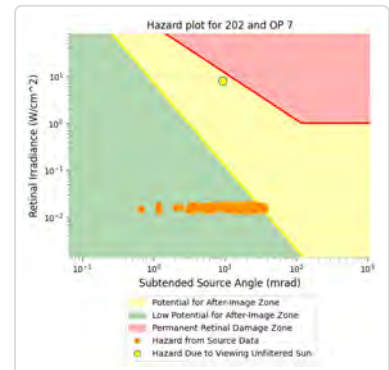
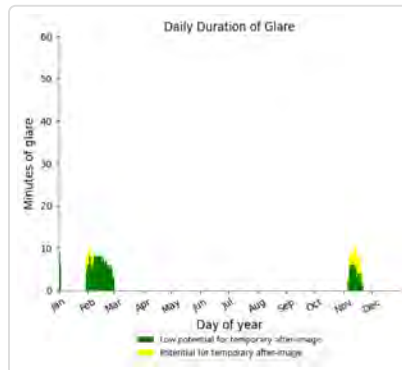
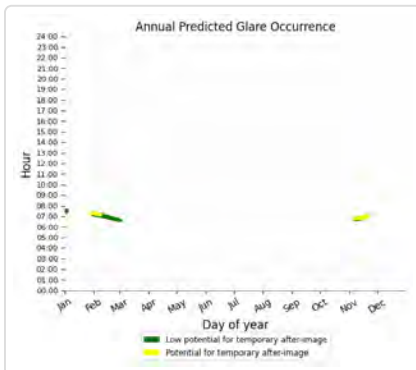
- 56 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



202: OP 7

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

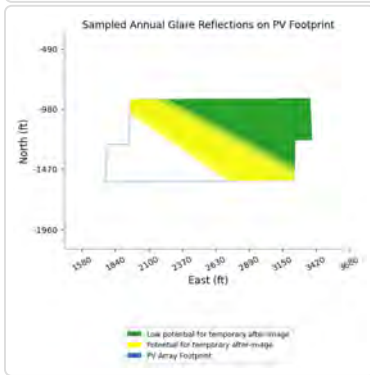
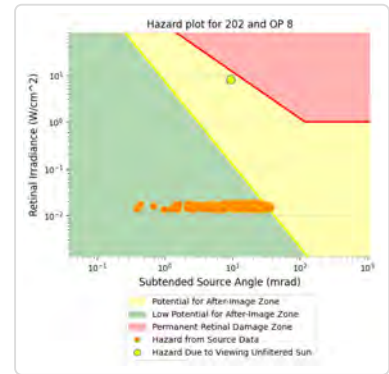
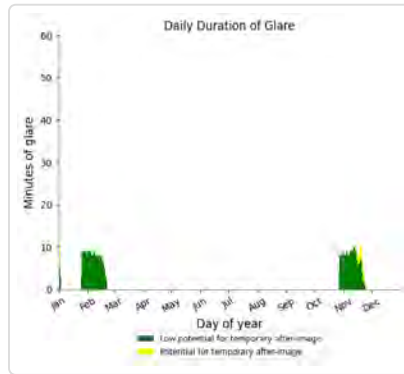
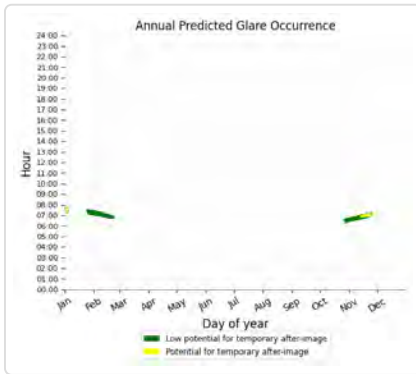
- 284 minutes of "green" glare with low potential to cause temporary after-image.
- 81 minutes of "yellow" glare with potential to cause temporary after-image.



202: OP 8

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

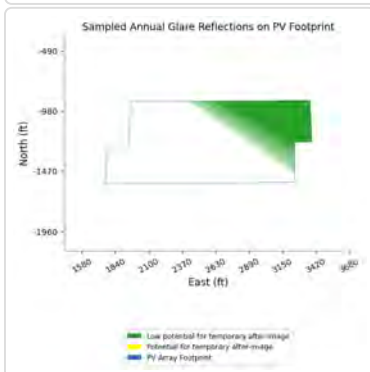
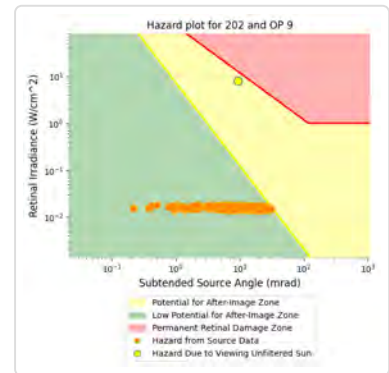
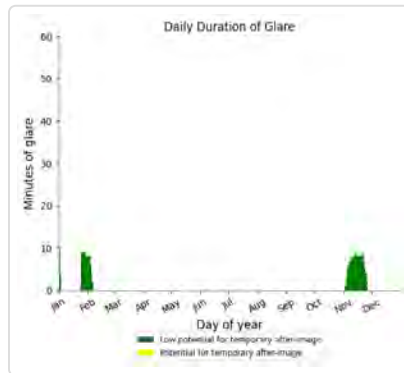
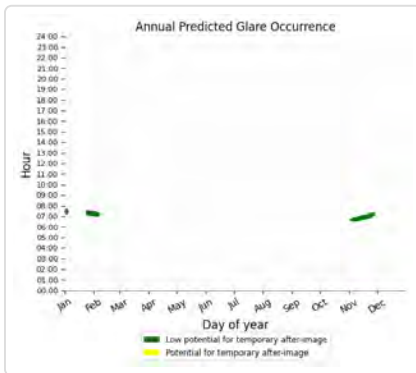
- 429 minutes of "green" glare with low potential to cause temporary after-image.
- 29 minutes of "yellow" glare with potential to cause temporary after-image.



202: OP 9

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

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



202: OP 10

No glare found

202: OP 11

No glare found

202: OP 12

No glare found

202: OP 13

No glare found

202: OP 14

No glare found

202: OP 15

No glare found

202: OP 16

No glare found

202: OP 17

No glare found

202: OP 18

No glare found

202: OP 19

No glare found

202: OP 20

No glare found

202: OP 21

No glare found

202: OP 22

No glare found

202: OP 23

No glare found

202: OP 24

No glare found

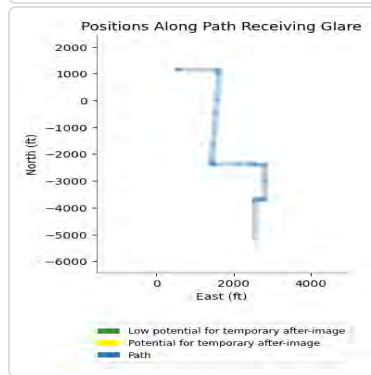
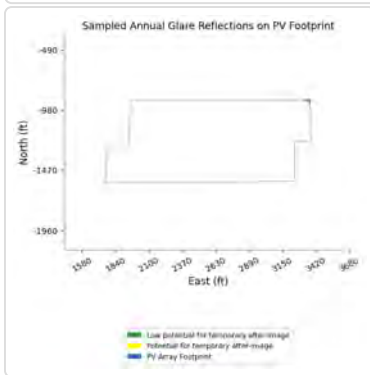
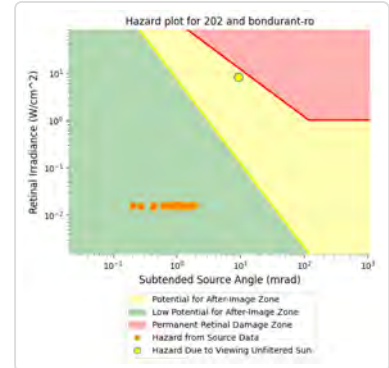
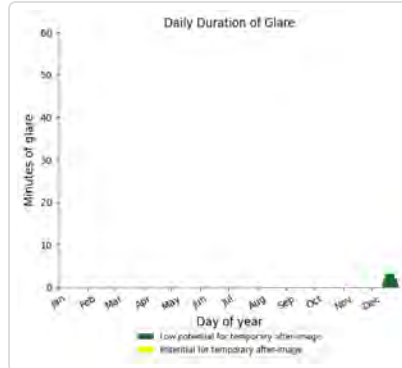
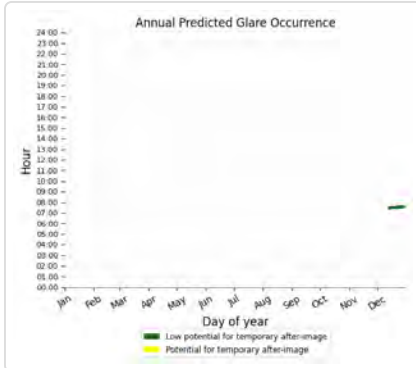
202: OP 25

No glare found

202: Bondurant Road

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

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



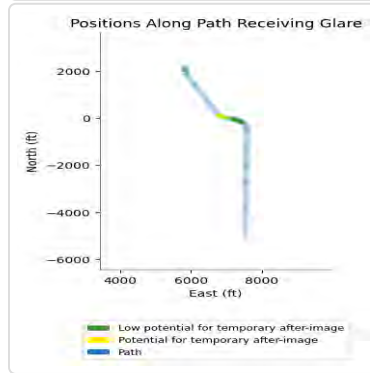
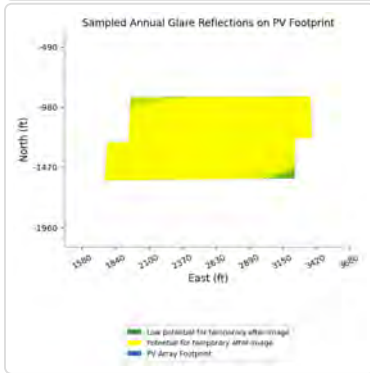
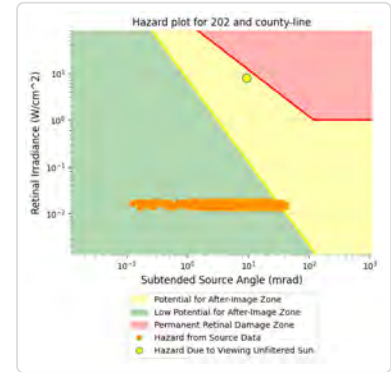
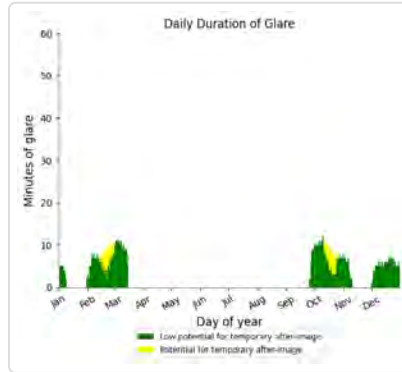
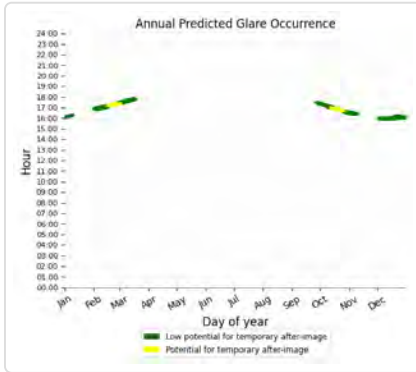
202: Buchanan Lane

No glare found

202: County Line Road

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

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



202: Gage Road

No glare found

203 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0

OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	199	560
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

203: Barkley Regional Airport Runway 14

No glare found

203: Barkley Regional Airport Runway 23

No glare found

203: Barkley Regional Airport Runway 32

No glare found

203: Barkley Regional Airport Runway 5

No glare found

203: 1-ATCT

No glare found

203: OP 2

No glare found

203: OP 3

No glare found

203: OP 4

No glare found

203: OP 5

No glare found

203: OP 6

No glare found

203: OP 7

No glare found

203: OP 8

No glare found

203: OP 9

No glare found

203: OP 10

No glare found

203: OP 11

No glare found

203: OP 12

No glare found

203: OP 13

No glare found

203: OP 14

No glare found

203: OP 15

No glare found

203: OP 16

No glare found

203: OP 17

No glare found

203: OP 18

No glare found

203: OP 19

No glare found

203: OP 20

No glare found

203: OP 21

No glare found

203: OP 22

No glare found

203: OP 23

No glare found

203: OP 24

No glare found

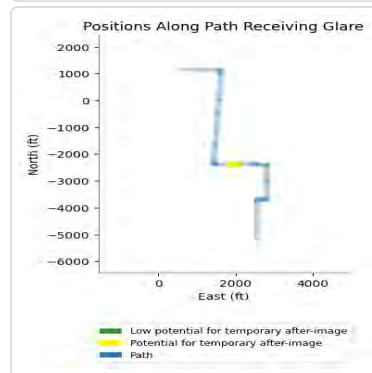
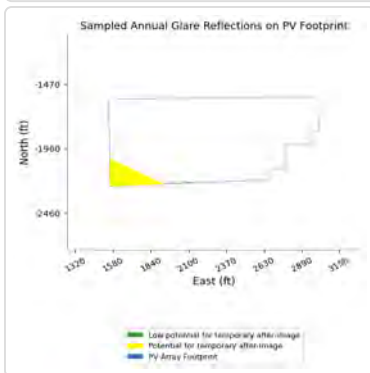
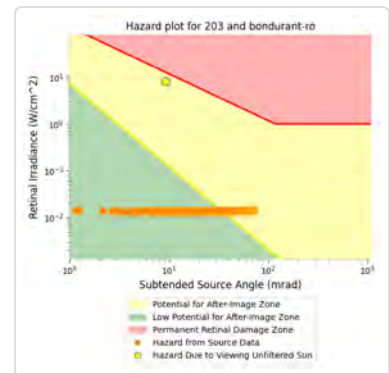
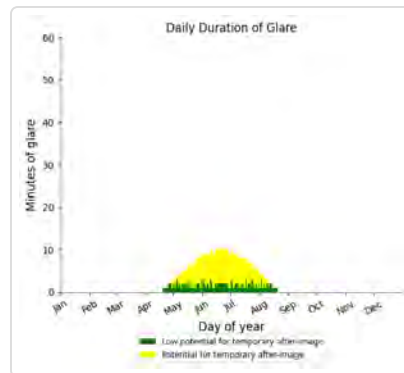
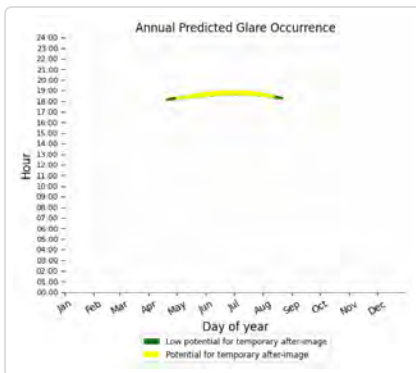
203: OP 25

No glare found

203: Bondurant Road

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

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



203: Buchanan Lane

No glare found

203: County Line Road

No glare found

203: Gage Road

No glare found

204 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	675	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	477	280
Route: Buchanan Lane	0	0
Route: County Line Road	777	0
Route: Gage Road	0	0

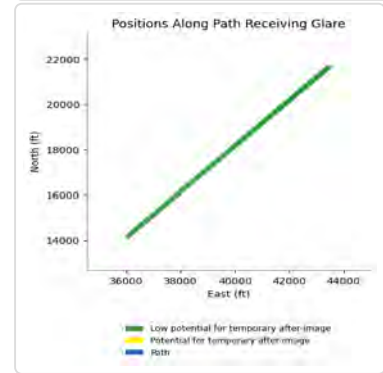
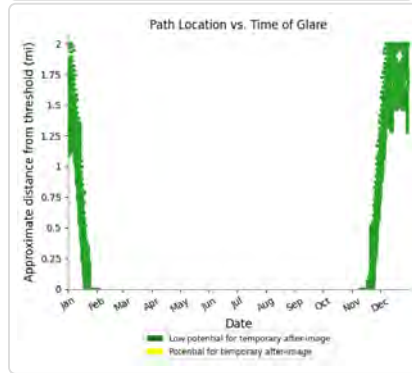
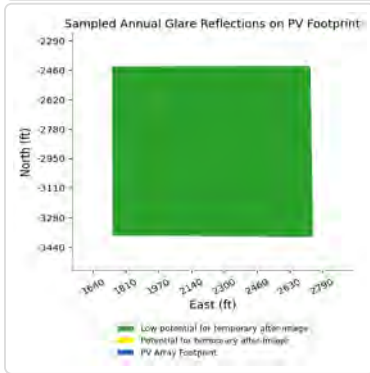
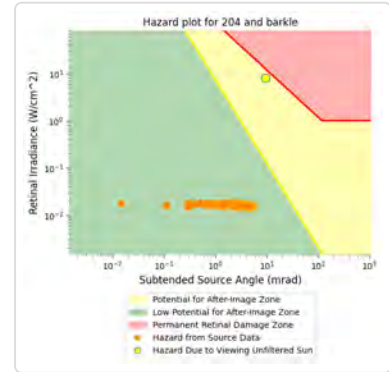
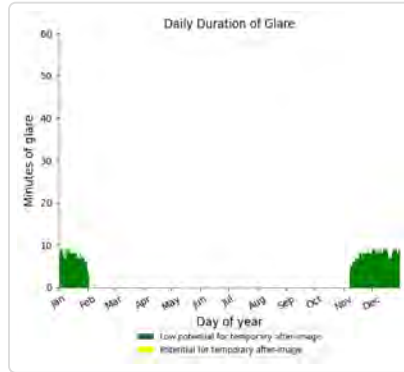
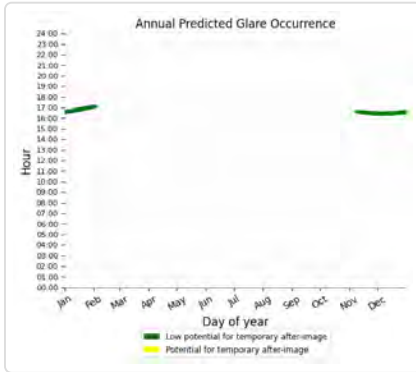
204: Barkley Regional Airport Runway 14

No glare found

204: Barkley Regional Airport Runway 23

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

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



204: Barkley Regional Airport Runway 32

No glare found

204: Barkley Regional Airport Runway 5

No glare found

204: 1-ATCT

No glare found

204: OP 2

No glare found

204: OP 3

No glare found

204: OP 4

No glare found

204: OP 5

No glare found

204: OP 6
No glare found

204: OP 7
No glare found

204: OP 8
No glare found

204: OP 9
No glare found

204: OP 10
No glare found

204: OP 11
No glare found

204: OP 12
No glare found

204: OP 13
No glare found

204: OP 14
No glare found

204: OP 15
No glare found

204: OP 16
No glare found

204: OP 17
No glare found

204: OP 18
No glare found

204: OP 19
No glare found

204: OP 20
No glare found

204: OP 21

No glare found

204: OP 22

No glare found

204: OP 23

No glare found

204: OP 24

No glare found

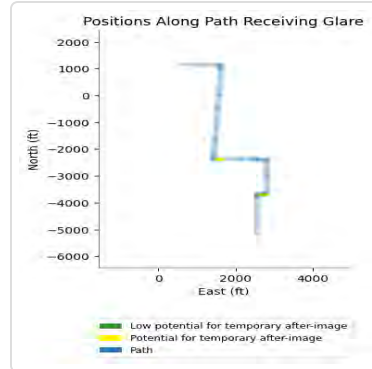
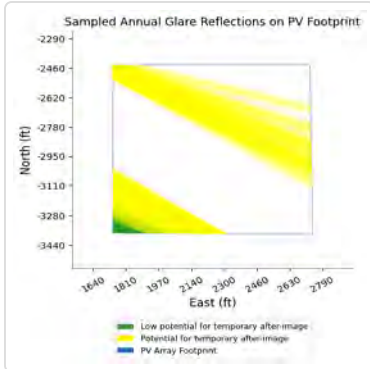
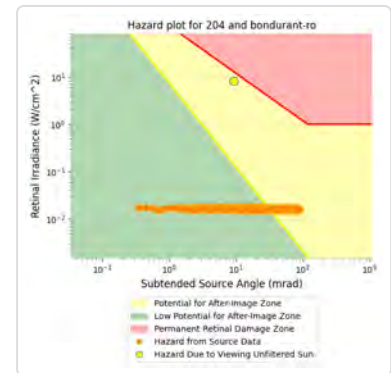
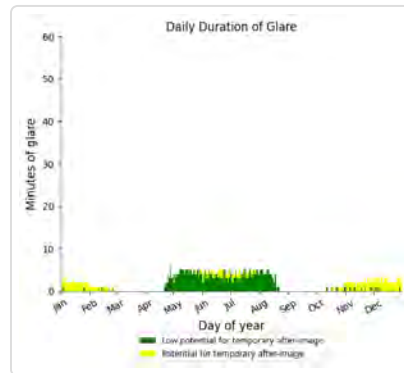
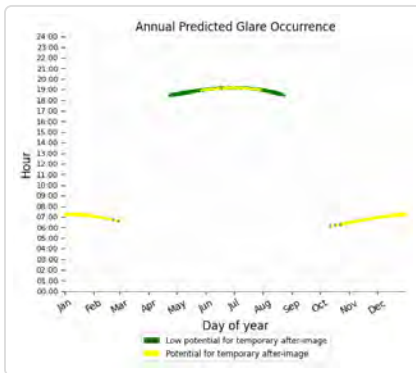
204: OP 25

No glare found

204: Bondurant Road

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

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



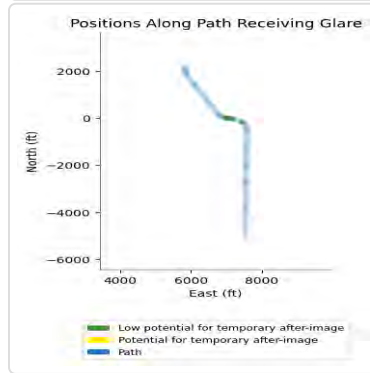
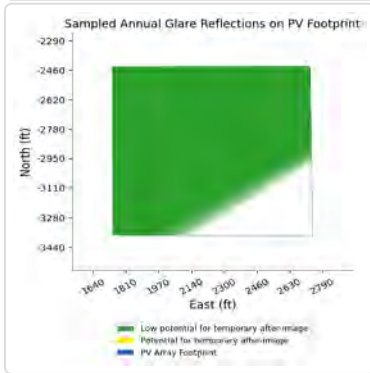
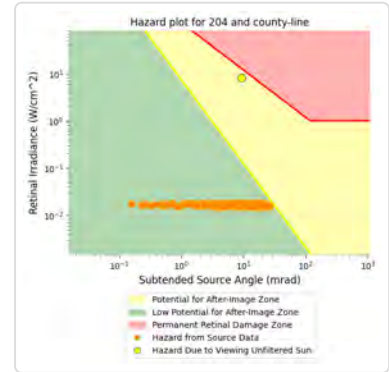
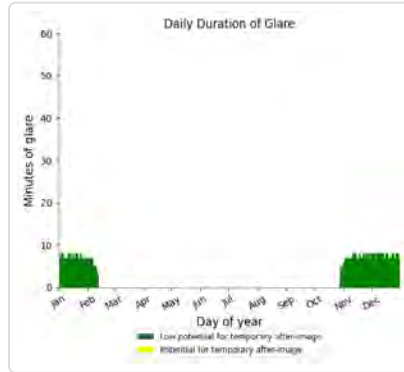
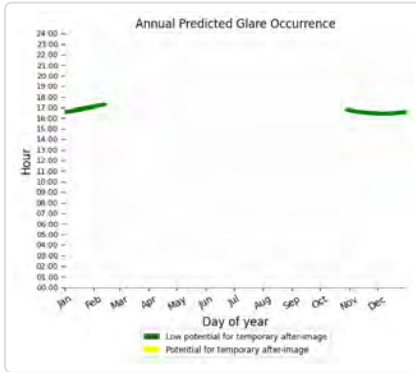
204: Buchanan Lane

No glare found

204: County Line Road

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

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



204: Gage Road

No glare found

205 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	476	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	181	0
OP: OP 3	0	0
OP: OP 4	63	0
OP: OP 5	516	0
OP: OP 6	560	0
OP: OP 7	427	0
OP: OP 8	372	0
OP: OP 9	495	0
OP: OP 10	1545	0
OP: OP 11	86	0
OP: OP 12	781	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0

OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	2521	396
Route: Buchanan Lane	0	0
Route: County Line Road	1138	0
Route: Gage Road	862	0

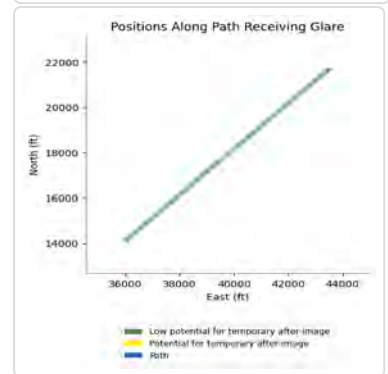
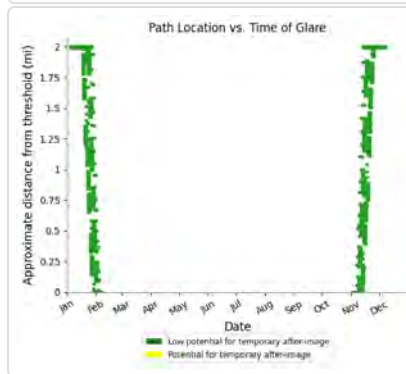
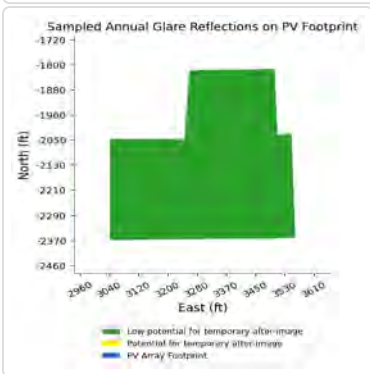
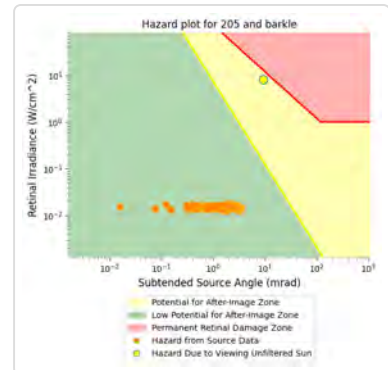
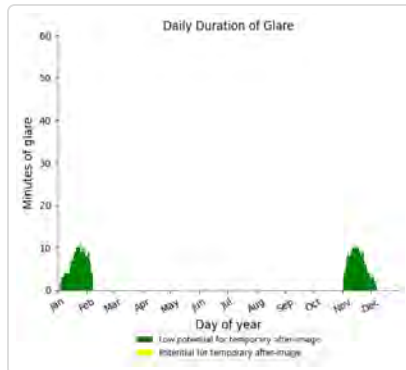
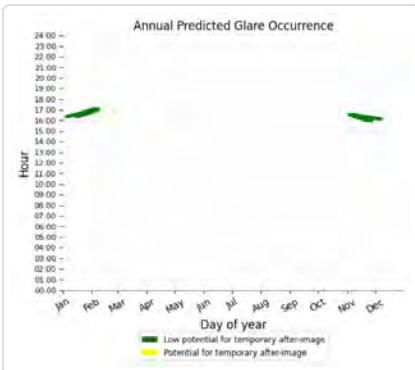
205: Barkley Regional Airport Runway 14

No glare found

205: Barkley Regional Airport Runway 23

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

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



205: Barkley Regional Airport Runway 32

No glare found

205: Barkley Regional Airport Runway 5

No glare found

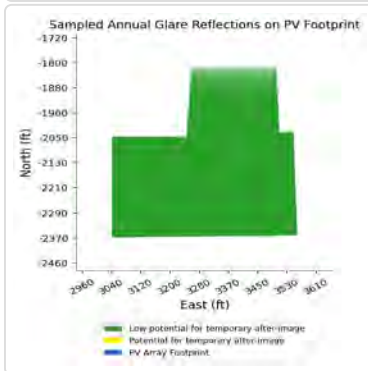
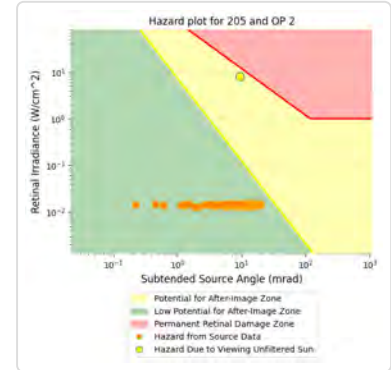
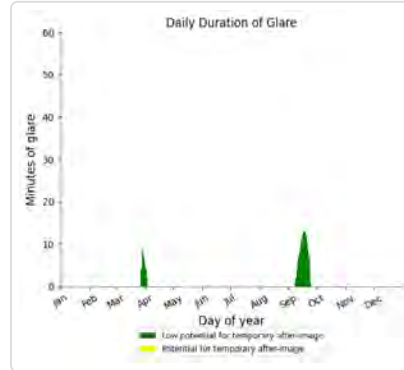
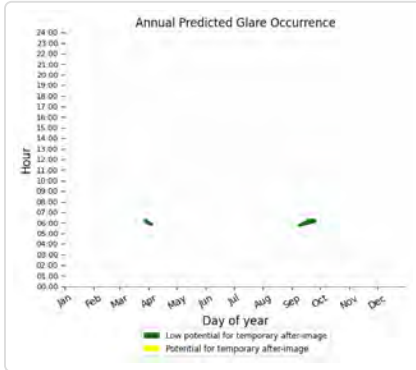
205: 1-ATCT

No glare found

205: OP 2

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

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



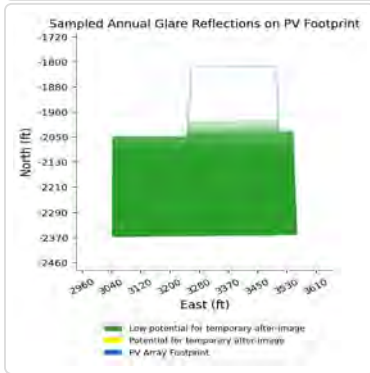
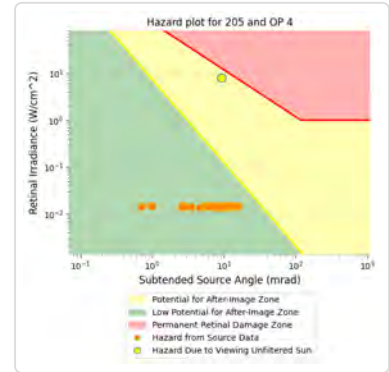
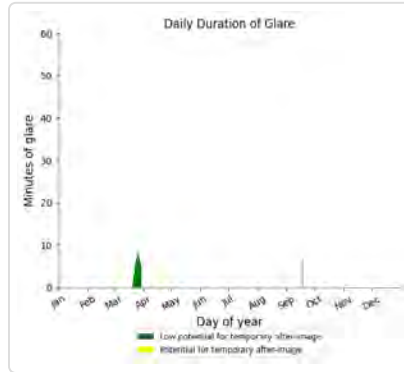
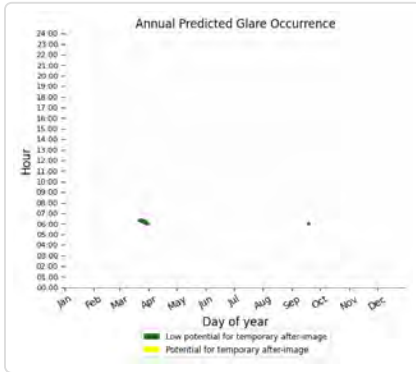
205: OP 3

No glare found

205: OP 4

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

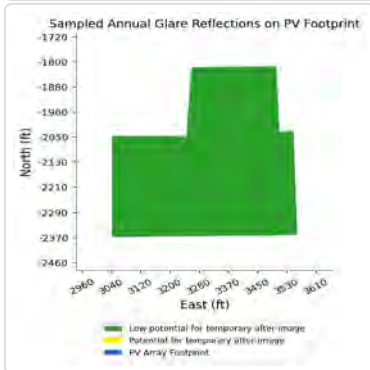
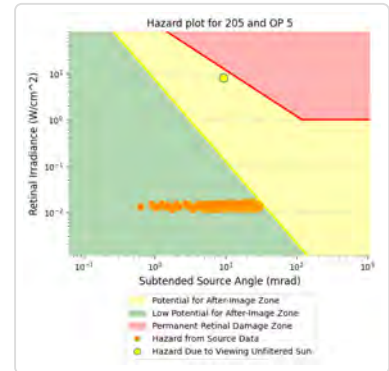
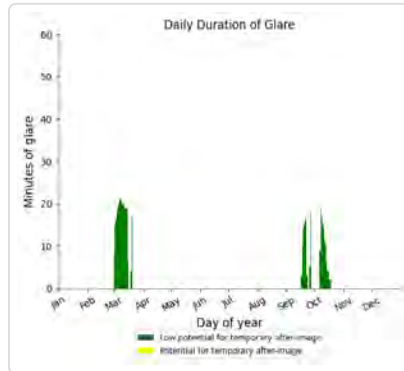
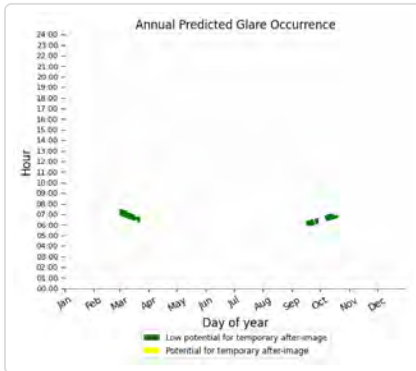
- 63 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 5

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

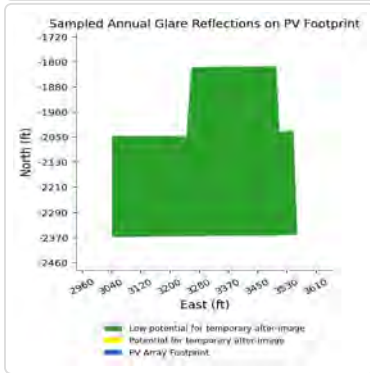
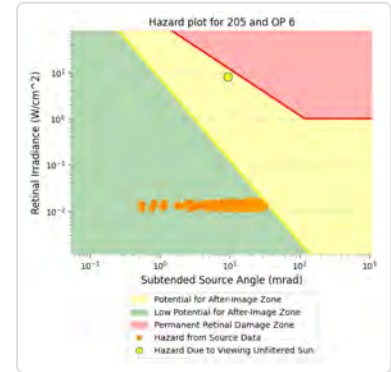
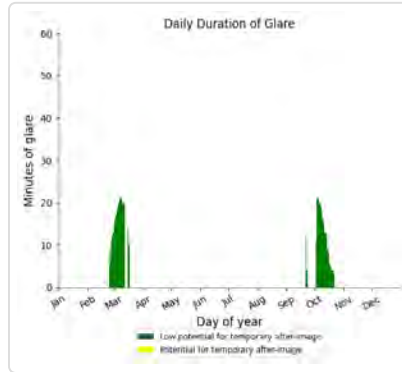
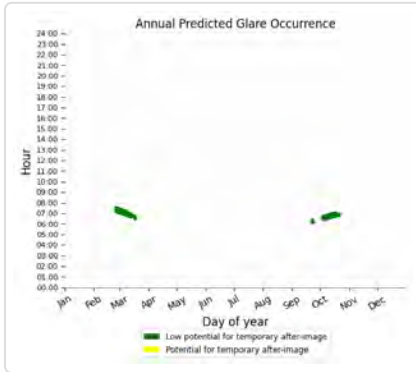
- 516 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 6

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

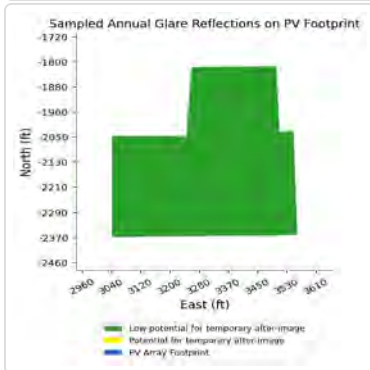
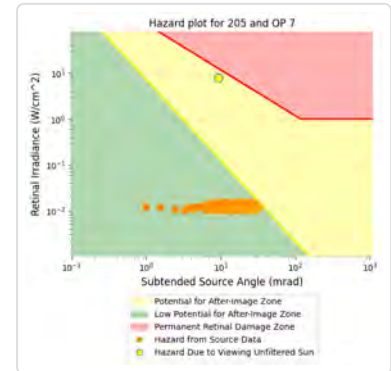
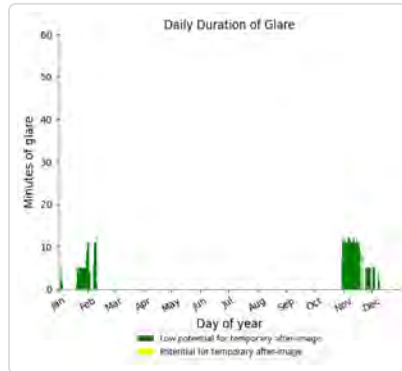
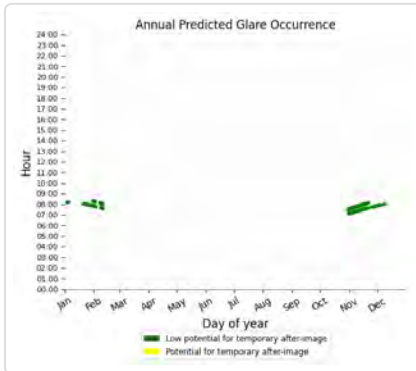
- 560 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 7

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

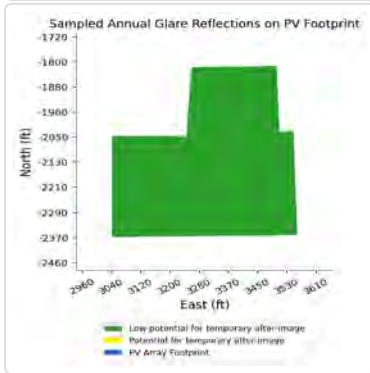
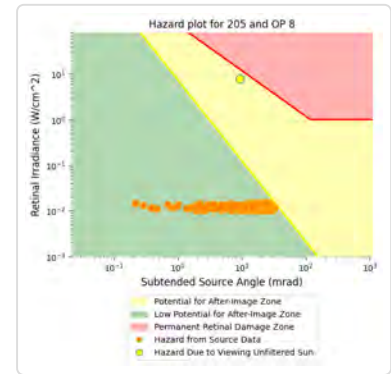
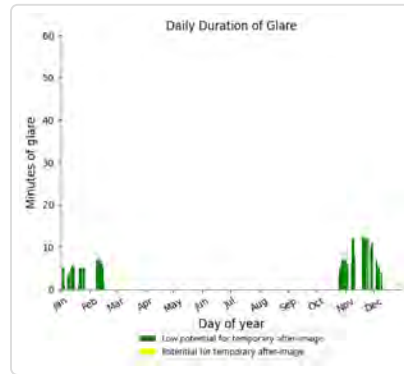
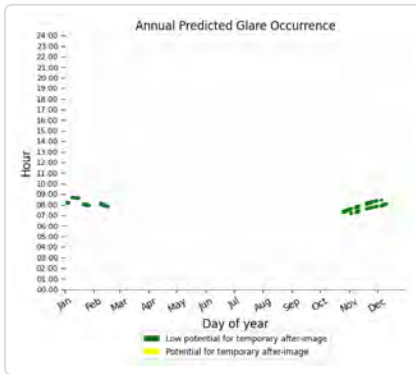
- 427 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 8

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

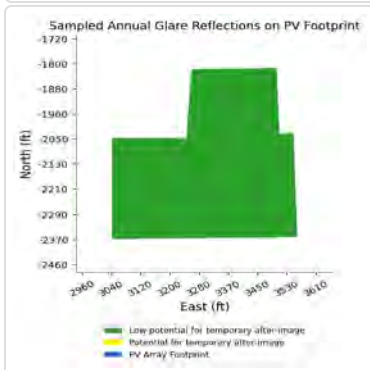
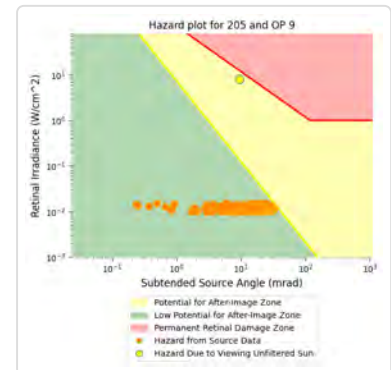
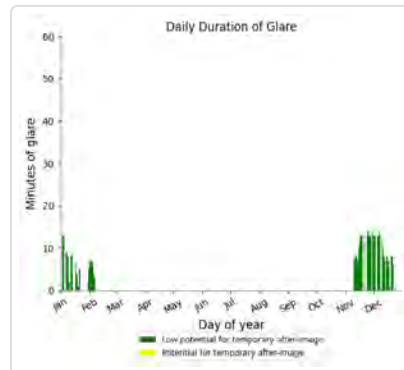
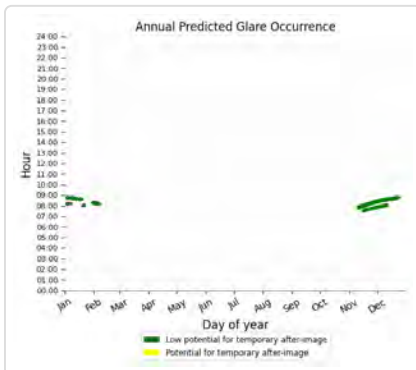
- 372 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 9

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

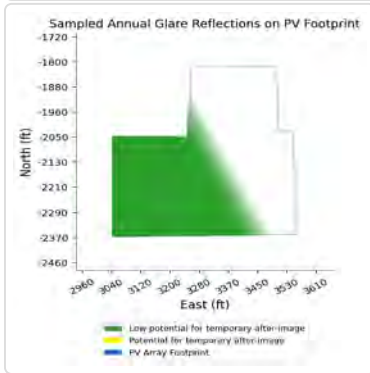
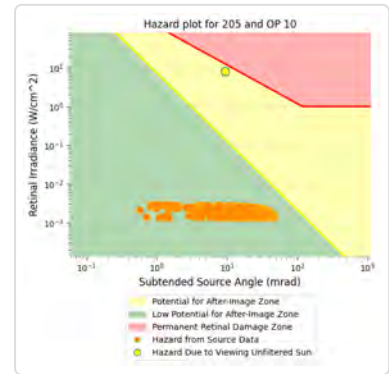
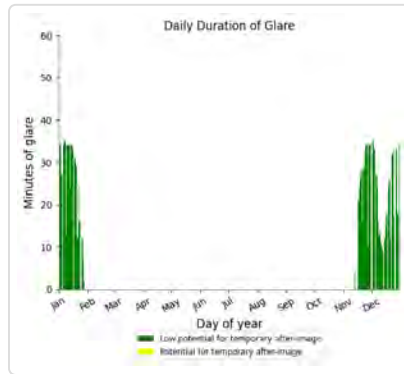
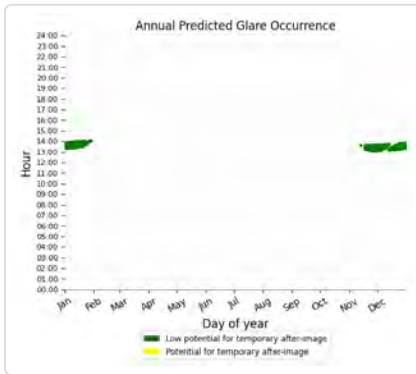
- 495 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 10

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

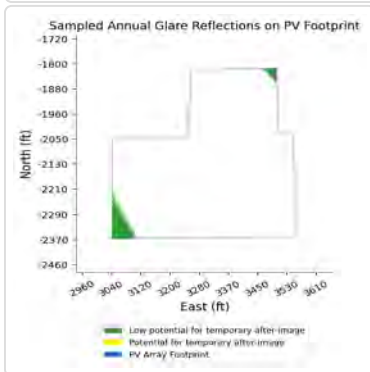
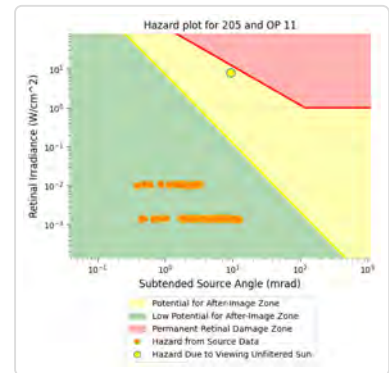
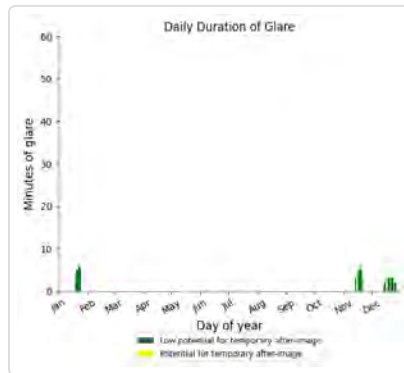
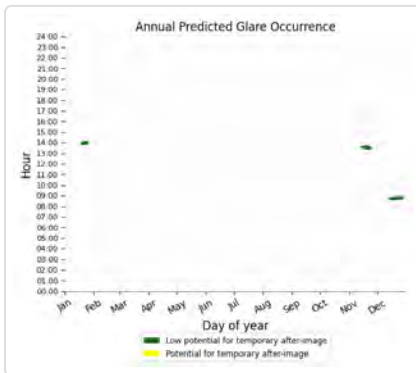
- 1,545 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 11

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

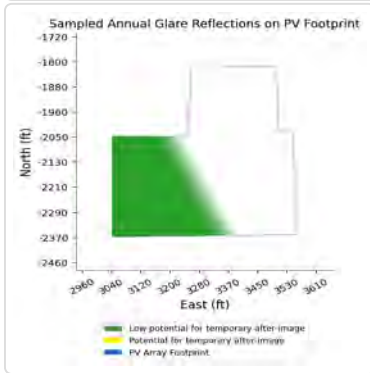
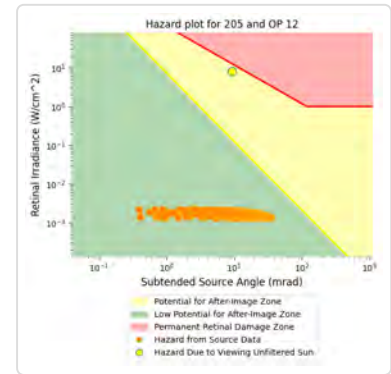
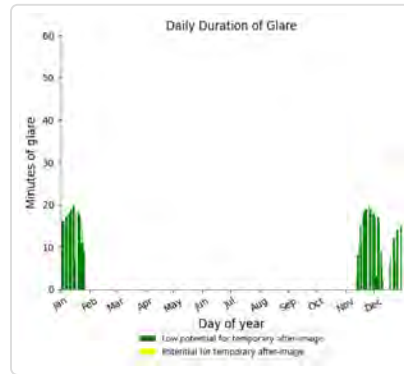
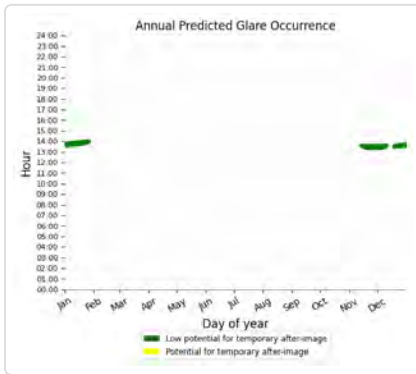
- 86 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 12

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

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



205: OP 13

No glare found

205: OP 14

No glare found

205: OP 15

No glare found

205: OP 16

No glare found

205: OP 17

No glare found

205: OP 18

No glare found

205: OP 19

No glare found

205: OP 20

No glare found

205: OP 21

No glare found

205: OP 22

No glare found

205: OP 23

No glare found

205: OP 24

No glare found

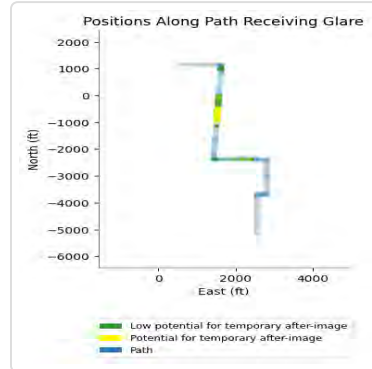
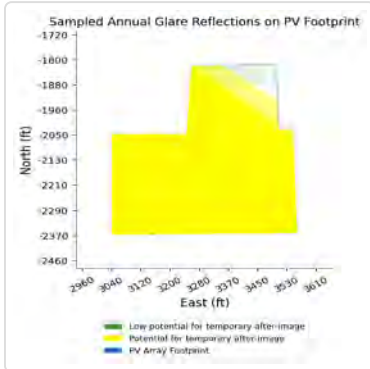
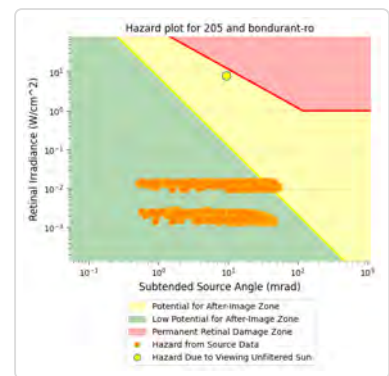
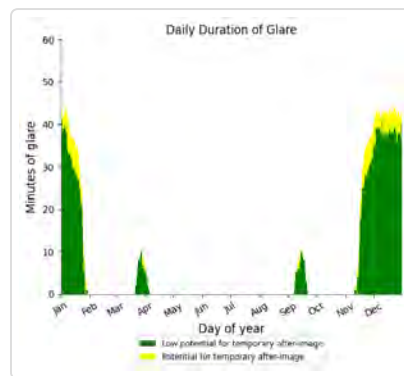
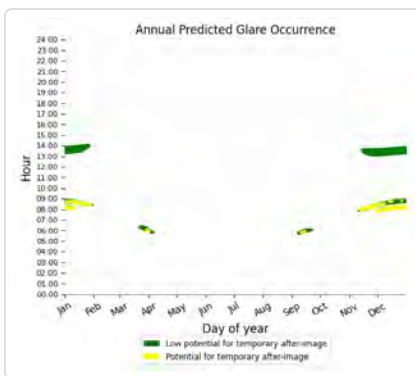
205: OP 25

No glare found

205: Bondurant Road

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

- 2,521 minutes of "green" glare with low potential to cause temporary after-image.
- 396 minutes of "yellow" glare with potential to cause temporary after-image.



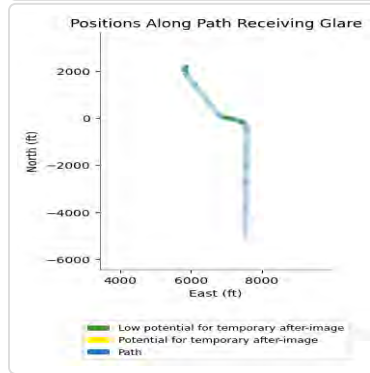
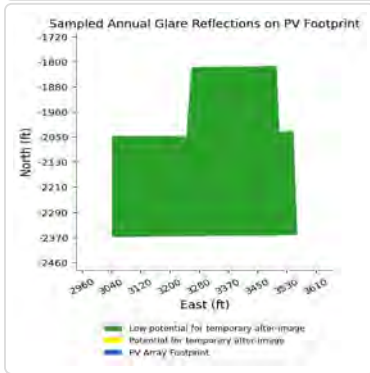
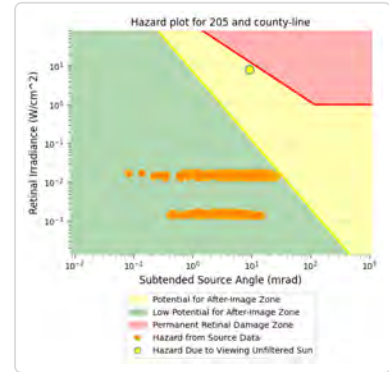
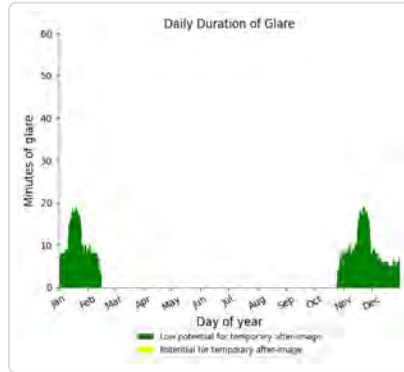
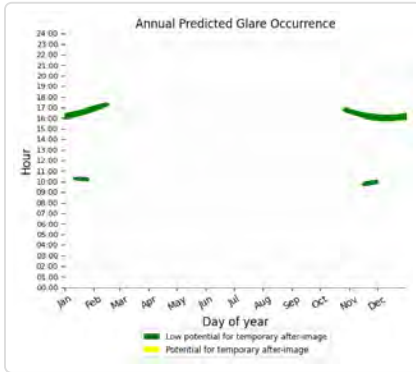
205: Buchanan Lane

No glare found

205: County Line Road

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

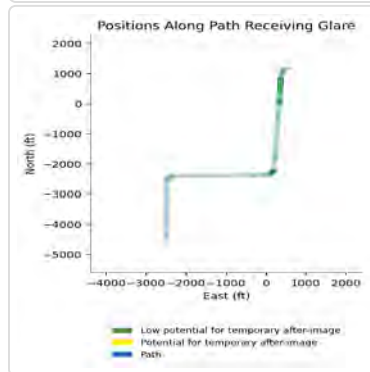
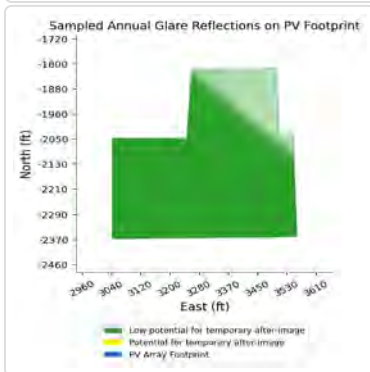
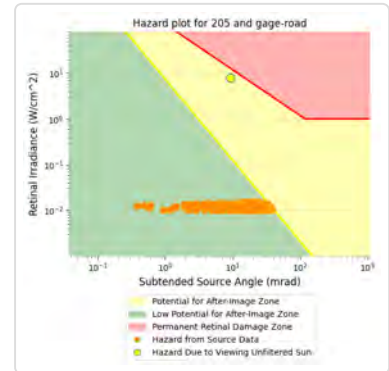
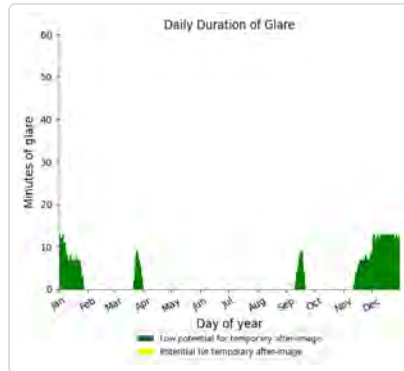
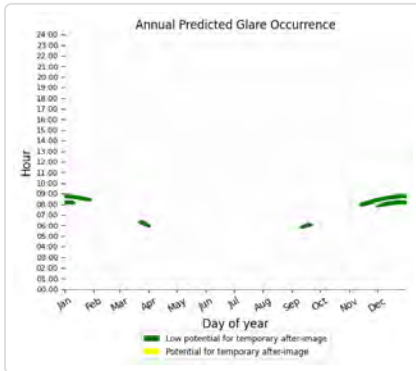
- 1,138 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: Gage Road

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

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



206 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	55	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
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

206: Barkley Regional Airport Runway 14

No glare found

206: Barkley Regional Airport Runway 23

No glare found

206: Barkley Regional Airport Runway 32

No glare found

206: Barkley Regional Airport Runway 5

No glare found

206: 1-ATCT

No glare found

206: OP 2

No glare found

206: OP 3

No glare found

206: OP 4

No glare found

206: OP 5

No glare found

206: OP 6

No glare found

206: OP 7

No glare found

206: OP 8

No glare found

206: OP 9

No glare found

206: OP 10

No glare found

206: OP 11

No glare found

206: OP 12

No glare found

206: OP 13

No glare found

206: OP 14

No glare found

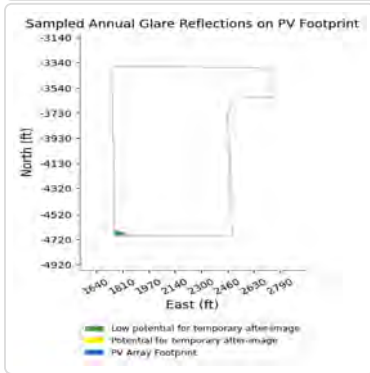
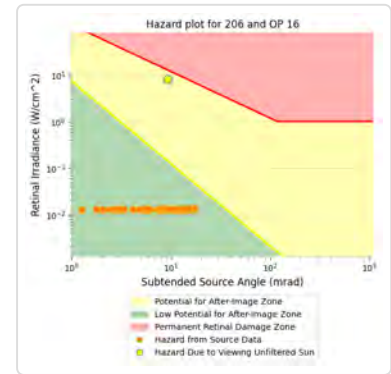
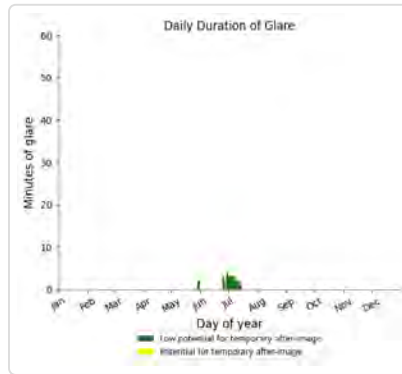
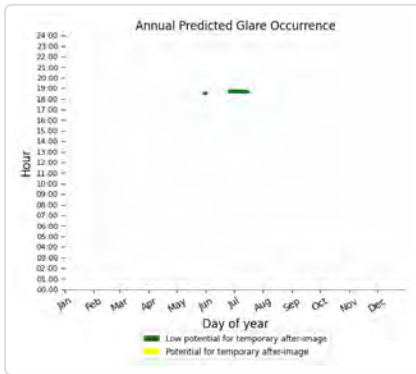
206: OP 15

No glare found

206: OP 16

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

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



206: OP 17

No glare found

206: OP 18

No glare found

206: OP 19

No glare found

206: OP 20

No glare found

206: OP 21

No glare found

206: OP 22

No glare found

206: OP 23

No glare found

206: OP 24

No glare found

206: OP 25

No glare found

206: Bondurant Road

No glare found

206: Buchanan Lane

No glare found

206: County Line Road

No glare found

206: Gage Road

No glare found

207 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	54	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	98	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0

Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

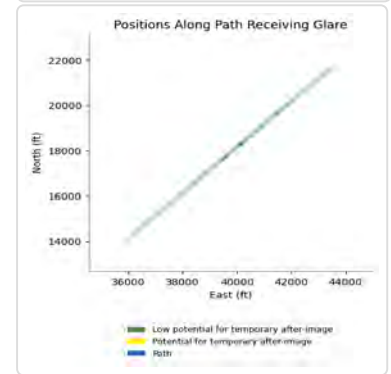
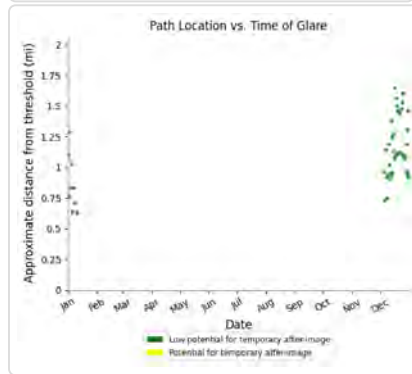
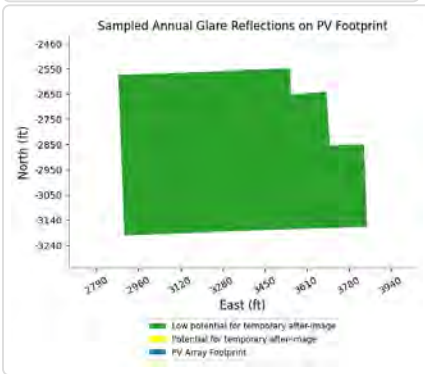
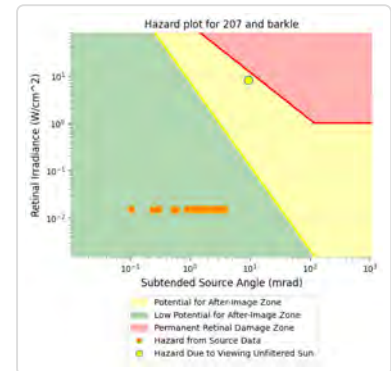
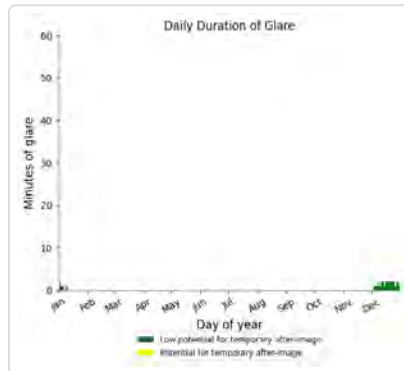
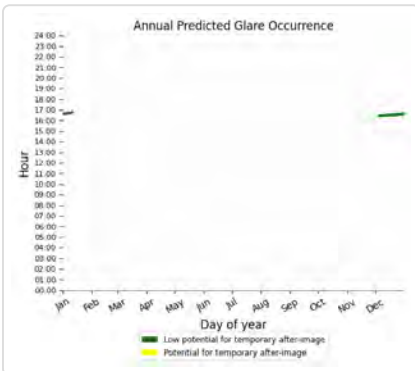
207: Barkley Regional Airport Runway 14

No glare found

207: Barkley Regional Airport Runway 23

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

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



207: Barkley Regional Airport Runway 32

No glare found

207: Barkley Regional Airport Runway 5

No glare found

207: 1-ATCT

No glare found

207: OP 2

No glare found

207: OP 3

No glare found

207: OP 4
No glare found

207: OP 5
No glare found

207: OP 6
No glare found

207: OP 7
No glare found

207: OP 8
No glare found

207: OP 9
No glare found

207: OP 10
No glare found

207: OP 11
No glare found

207: OP 12
No glare found

207: OP 13
No glare found

207: OP 14
No glare found

207: OP 15
No glare found

207: OP 16
No glare found

207: OP 17
No glare found

207: OP 18
No glare found

207: OP 19

No glare found

207: OP 20

No glare found

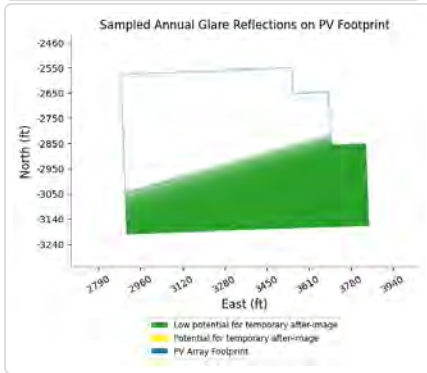
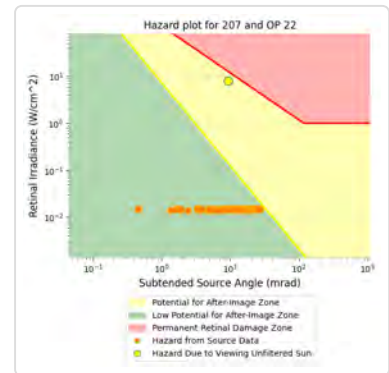
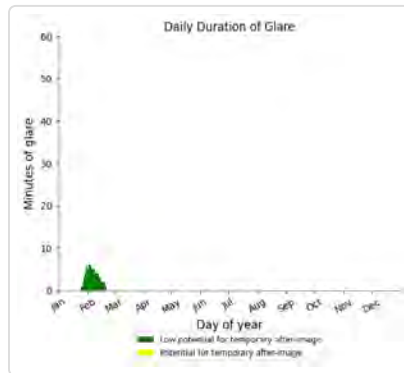
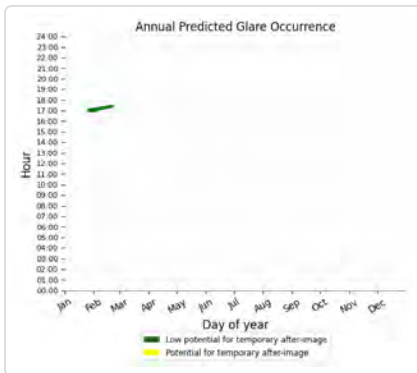
207: OP 21

No glare found

207: OP 22

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

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



207: OP 23

No glare found

207: OP 24

No glare found

207: OP 25

No glare found

207: Bondurant Road

No glare found

207: Buchanan Lane

No glare found

207: County Line Road

No glare found

207: Gage Road

No glare found

208 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

209 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	53	59
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	444	724
OP: OP 6	201	6
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	36	0
OP: OP 25	137	0
Route: Bondurant Road	425	1449
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	445	1365

209: Barkley Regional Airport Runway 14

No glare found

209: Barkley Regional Airport Runway 23

No glare found

209: Barkley Regional Airport Runway 32

No glare found

209: Barkley Regional Airport Runway 5

No glare found

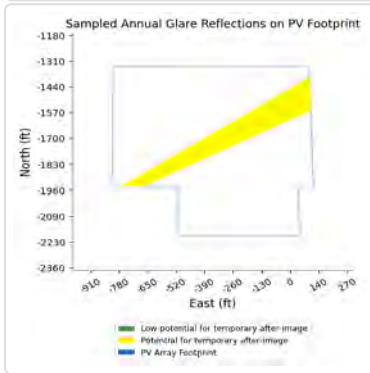
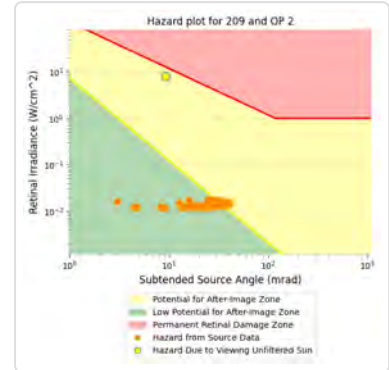
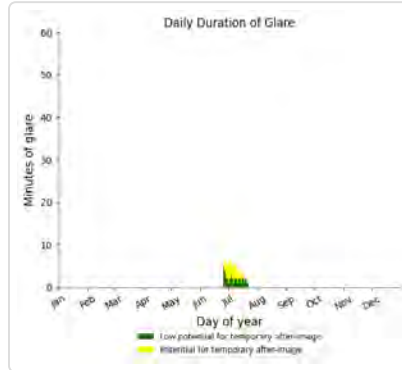
209: 1-ATCT

No glare found

209: OP 2

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

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



209: OP 3

No glare found

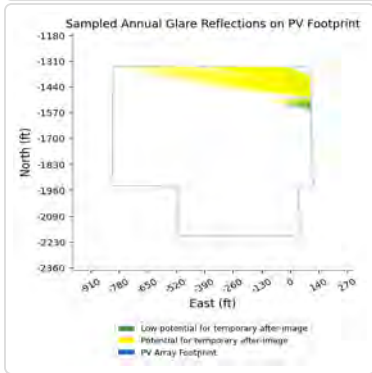
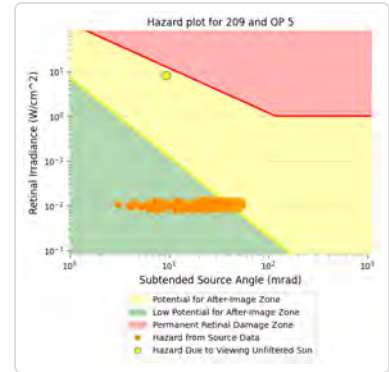
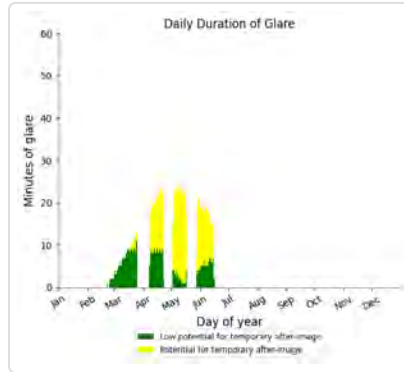
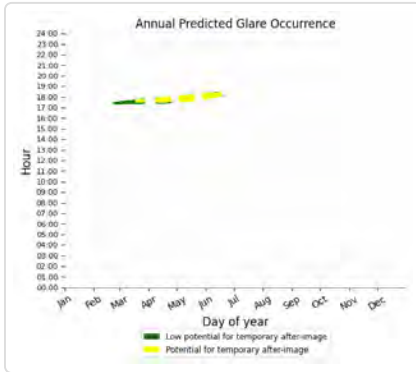
209: OP 4

No glare found

209: OP 5

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

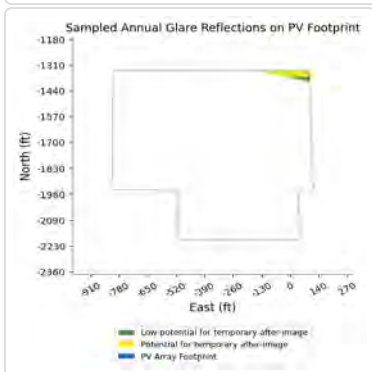
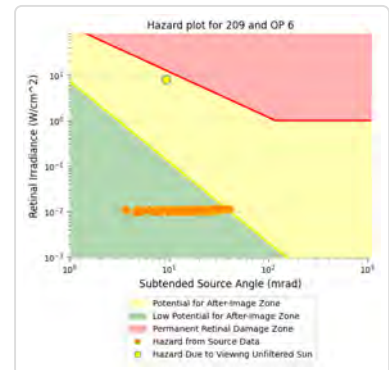
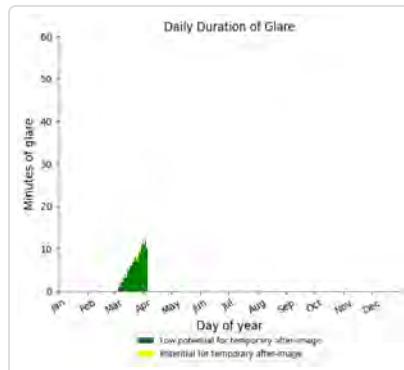
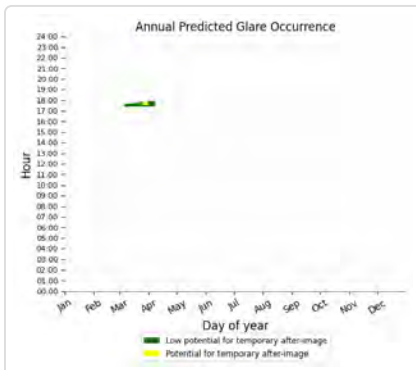
- 444 minutes of "green" glare with low potential to cause temporary after-image.
- 724 minutes of "yellow" glare with potential to cause temporary after-image.



209: OP 6

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

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



209: OP 7
No glare found

209: OP 8
No glare found

209: OP 9
No glare found

209: OP 10
No glare found

209: OP 11
No glare found

209: OP 12
No glare found

209: OP 13
No glare found

209: OP 14
No glare found

209: OP 15
No glare found

209: OP 16
No glare found

209: OP 17
No glare found

209: OP 18
No glare found

209: OP 19
No glare found

209: OP 20
No glare found

209: OP 21
No glare found

209: OP 22

No glare found

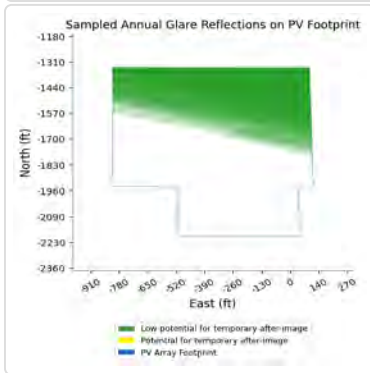
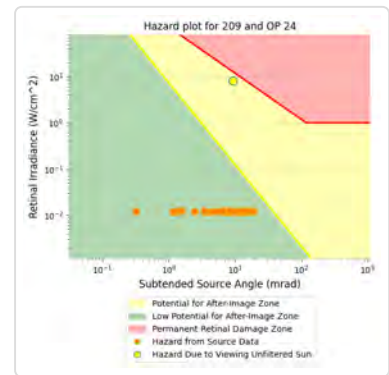
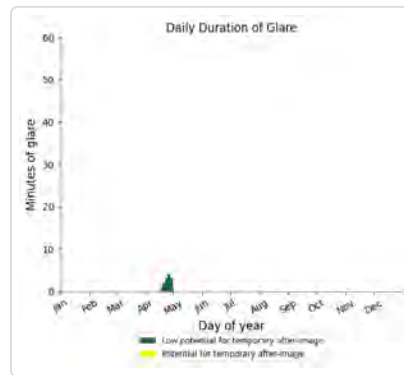
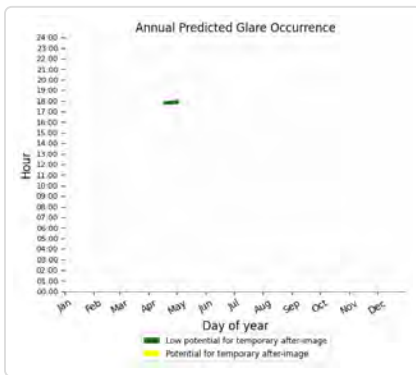
209: OP 23

No glare found

209: OP 24

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

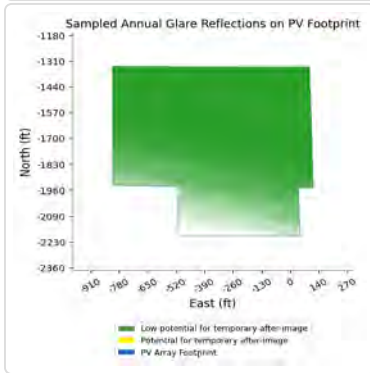
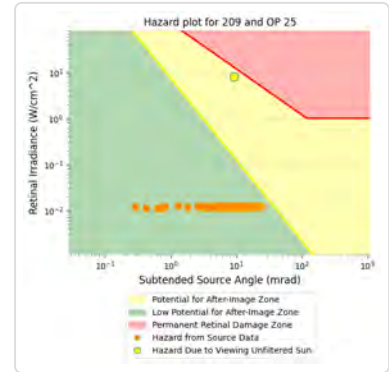
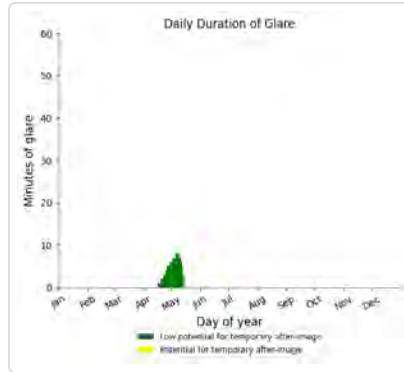
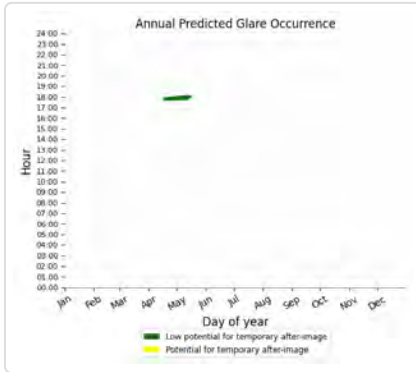
- 36 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



209: OP 25

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

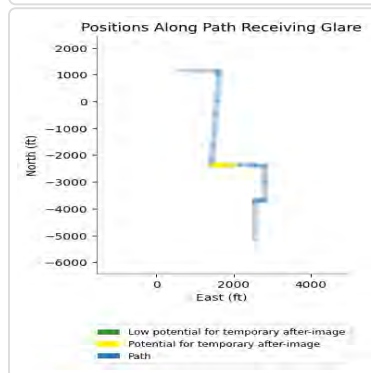
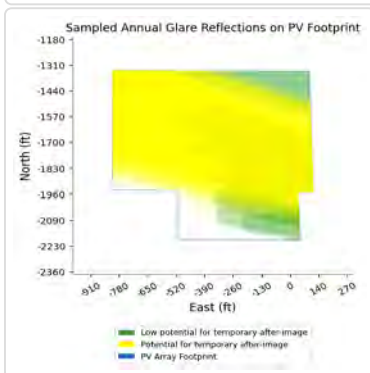
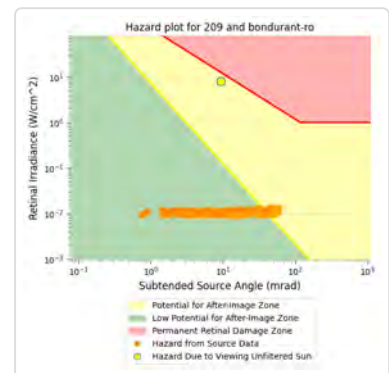
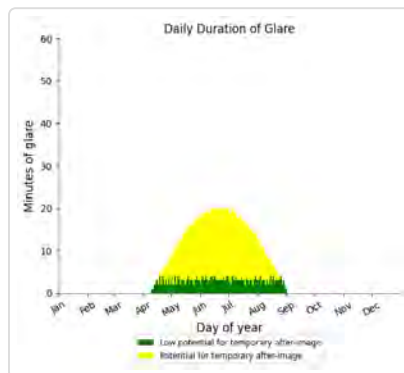
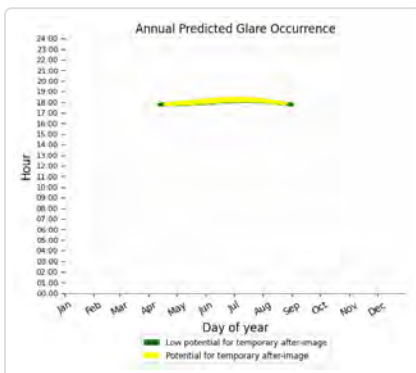
- 137 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



209: Bondurant Road

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

- 425 minutes of "green" glare with low potential to cause temporary after-image.
- 1,449 minutes of "yellow" glare with potential to cause temporary after-image.



209: Buchanan Lane

No glare found

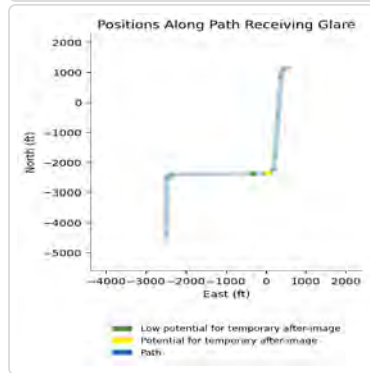
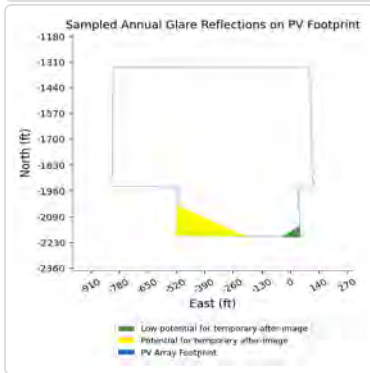
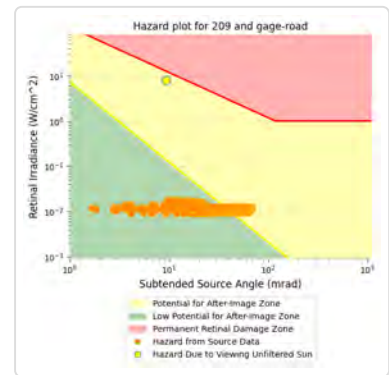
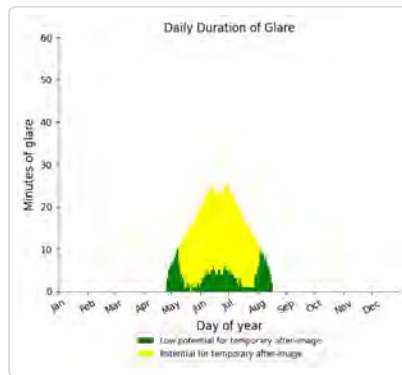
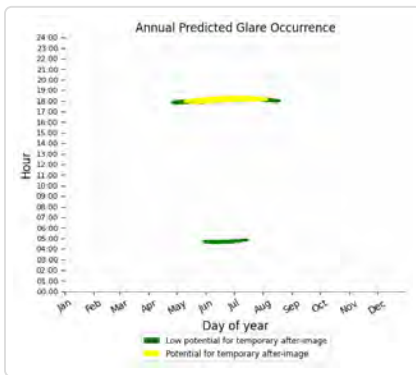
209: County Line Road

No glare found

209: Gage Road

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

- 445 minutes of "green" glare with low potential to cause temporary after-image.
- 1,365 minutes of "yellow" glare with potential to cause temporary after-image.



210 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	841	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	32	0
OP: OP 9	58	55
OP: OP 10	157	576
OP: OP 11	0	0

OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	764	0
Route: Gage Road	0	0

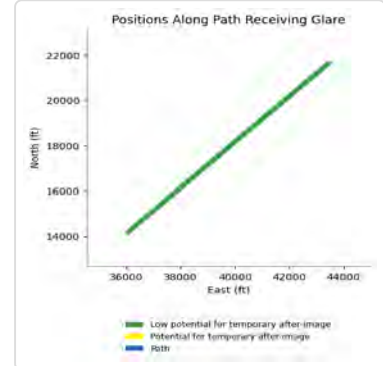
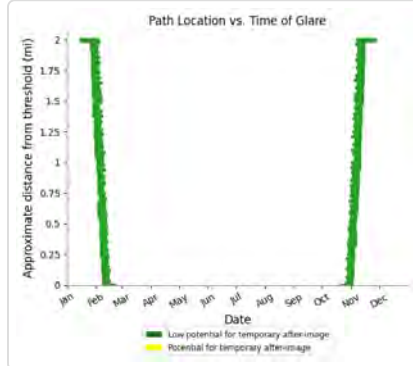
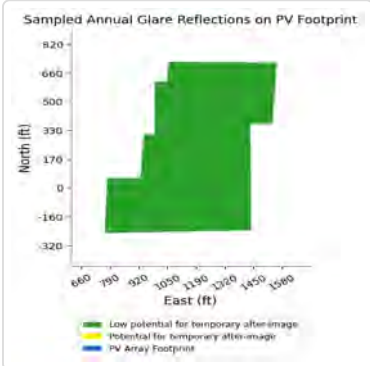
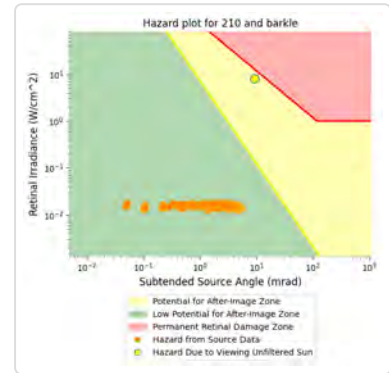
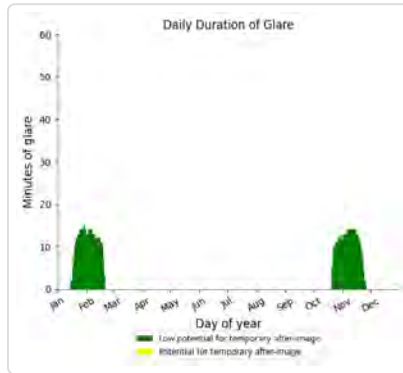
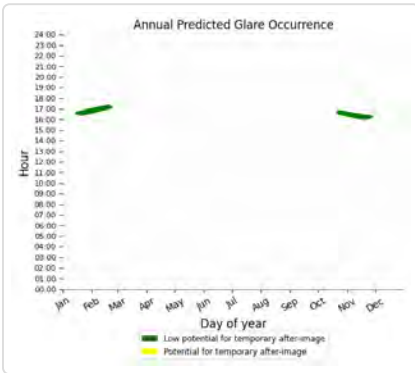
210: Barkley Regional Airport Runway 14

No glare found

210: Barkley Regional Airport Runway 23

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

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



210: Barkley Regional Airport Runway 32

No glare found

210: Barkley Regional Airport Runway 5

No glare found

210: 1-ATCT

No glare found

210: OP 2

No glare found

210: OP 3

No glare found

210: OP 4

No glare found

210: OP 5

No glare found

210: OP 6

No glare found

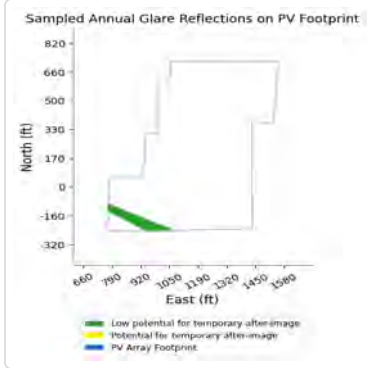
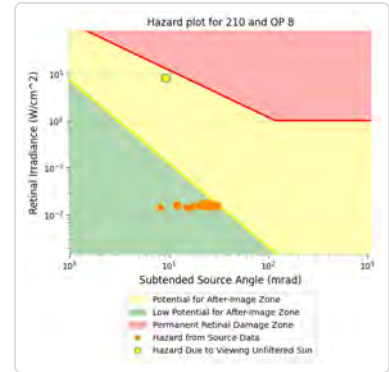
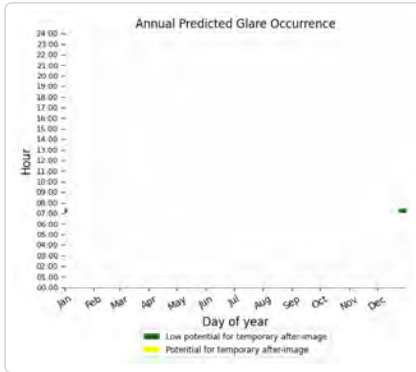
210: OP 7

No glare found

210: OP 8

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

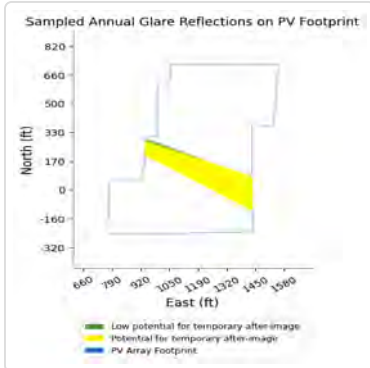
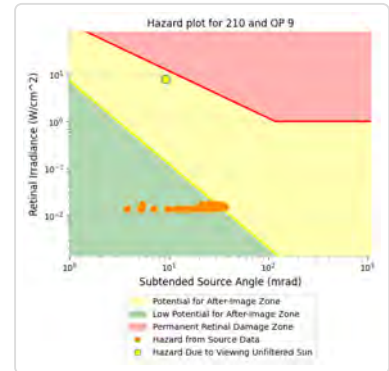
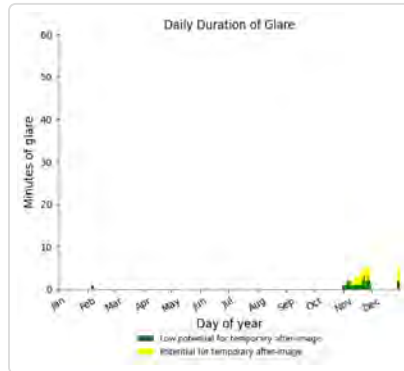
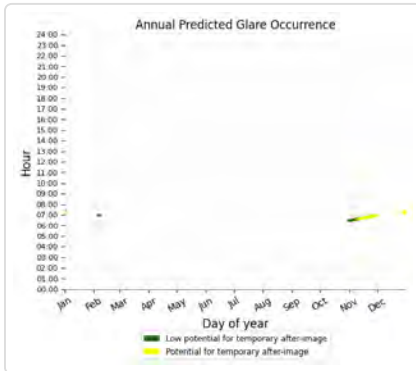
- 32 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



210: OP 9

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

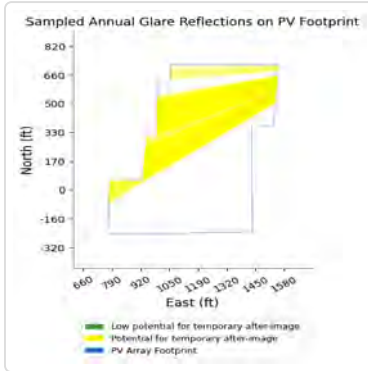
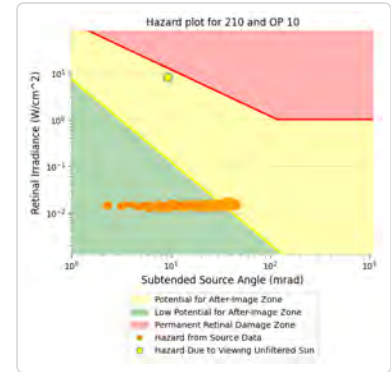
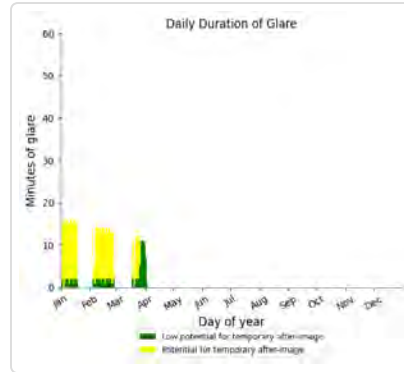
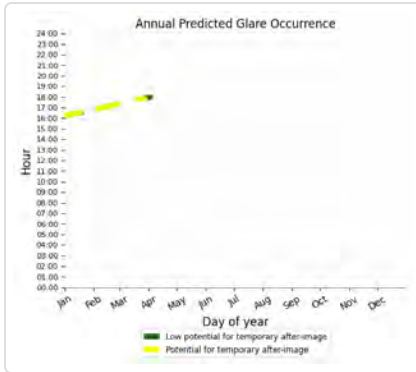
- 58 minutes of "green" glare with low potential to cause temporary after-image.
- 55 minutes of "yellow" glare with potential to cause temporary after-image.



210: OP 10

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

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



210: OP 11

No glare found

210: OP 12

No glare found

210: OP 13

No glare found

210: OP 14

No glare found

210: OP 15

No glare found

210: OP 16

No glare found

210: OP 17

No glare found

210: OP 18

No glare found

210: OP 19

No glare found

210: OP 20

No glare found

210: OP 21

No glare found

210: OP 22

No glare found

210: OP 23

No glare found

210: OP 24

No glare found

210: OP 25

No glare found

210: Bondurant Road

No glare found

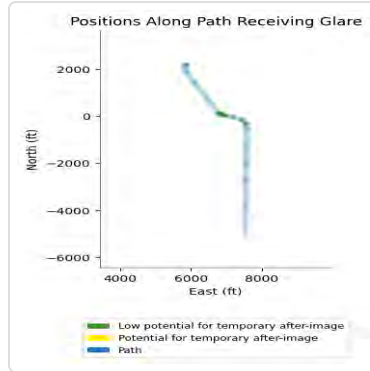
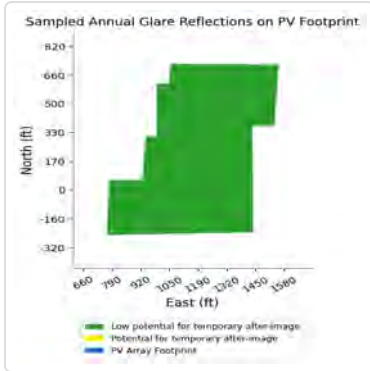
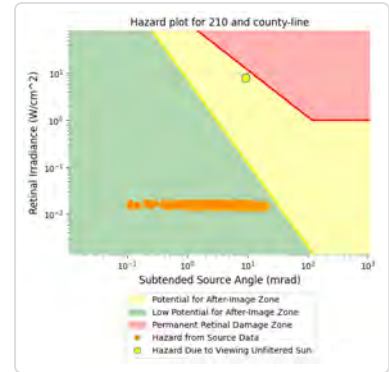
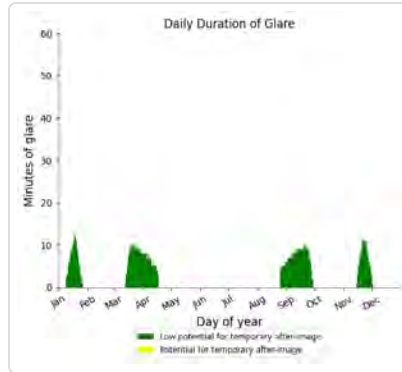
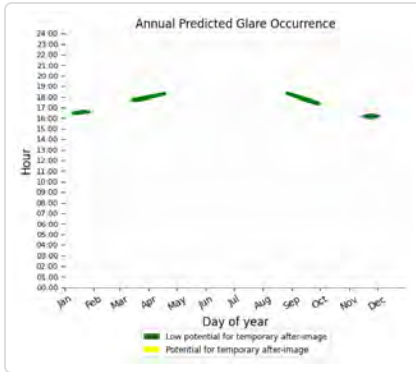
210: Buchanan Lane

No glare found

210: County Line Road

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

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



210: Gage Road

No glare found

211 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	47	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0

OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	149	0
Route: Gage Road	0	0

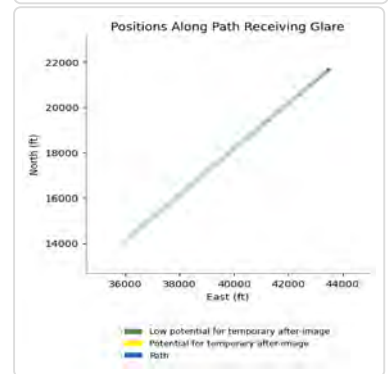
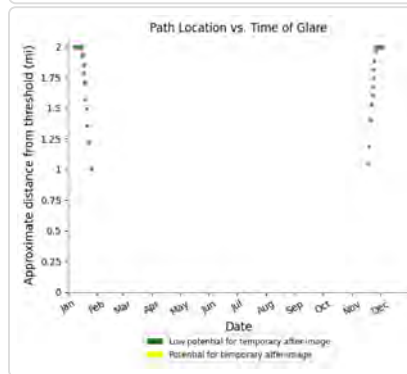
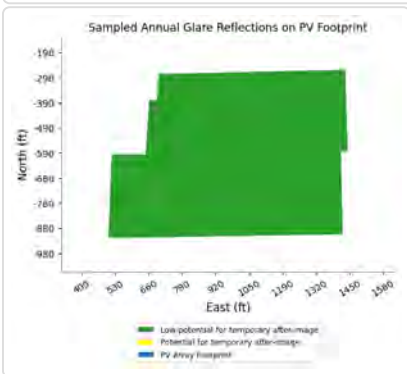
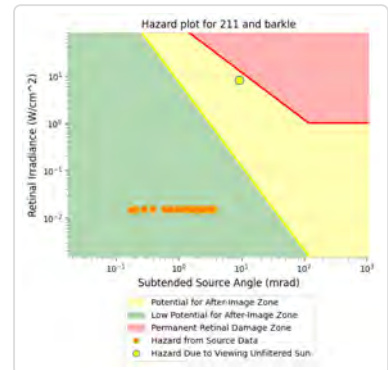
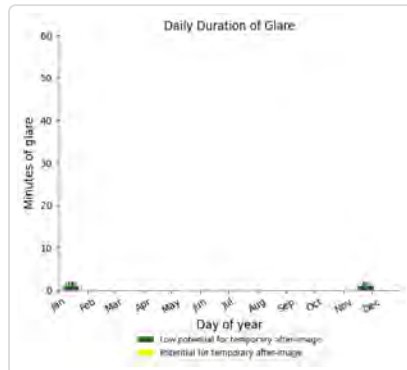
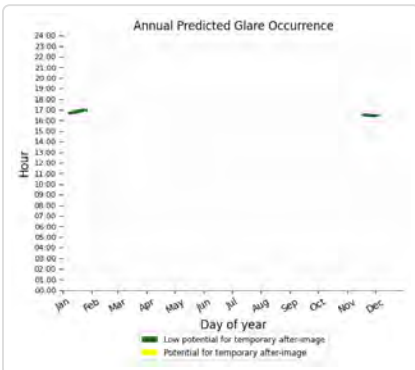
211: Barkley Regional Airport Runway 14

No glare found

211: Barkley Regional Airport Runway 23

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

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



211: Barkley Regional Airport Runway 32

No glare found

211: Barkley Regional Airport Runway 5

No glare found

211: 1-ATCT

No glare found

211: OP 2

No glare found

211: OP 3

No glare found

211: OP 4

No glare found

211: OP 5

No glare found

211: OP 6

No glare found

211: OP 7

No glare found

211: OP 8

No glare found

211: OP 9

No glare found

211: OP 10

No glare found

211: OP 11

No glare found

211: OP 12

No glare found

211: OP 13

No glare found

211: OP 14

No glare found

211: OP 15

No glare found

211: OP 16

No glare found

211: OP 17

No glare found

211: OP 18

No glare found

211: OP 19

No glare found

211: OP 20

No glare found

211: OP 21

No glare found

211: OP 22

No glare found

211: OP 23

No glare found

211: OP 24

No glare found

211: OP 25

No glare found

211: Bondurant Road

No glare found

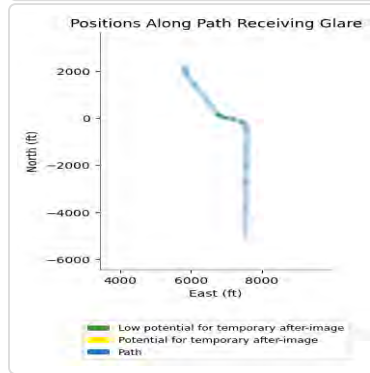
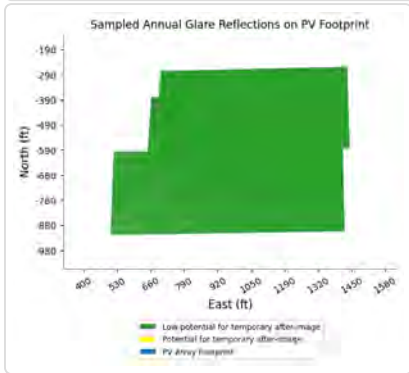
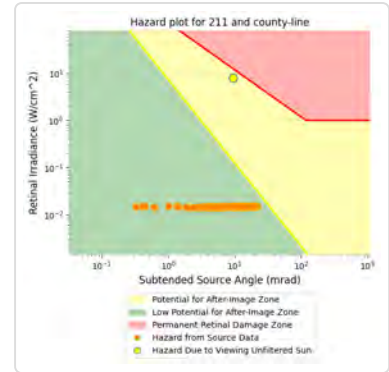
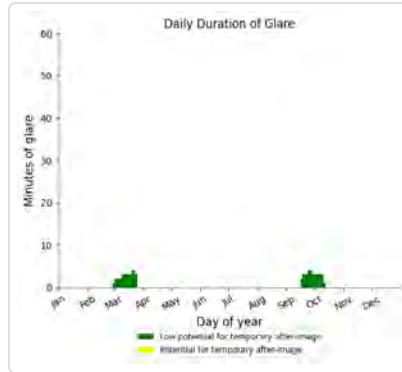
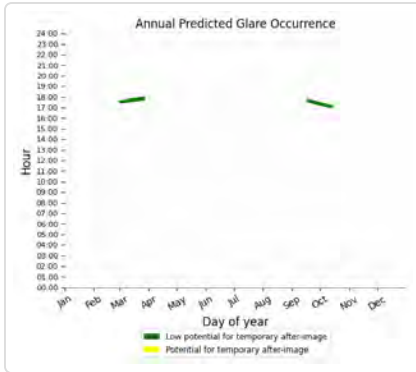
211: Buchanan Lane

No glare found

211: County Line Road

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

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



211: Gage Road

No glare found

212 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	830	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0

OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	18	333
Route: Buchanan Lane	0	0
Route: County Line Road	1282	0
Route: Gage Road	0	0

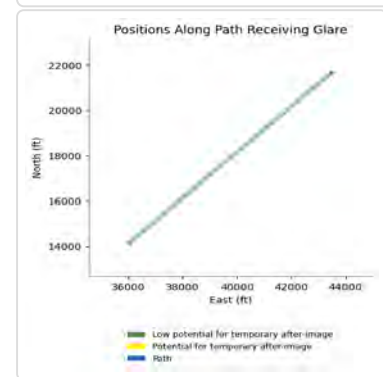
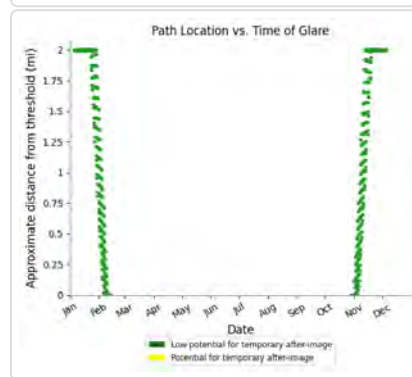
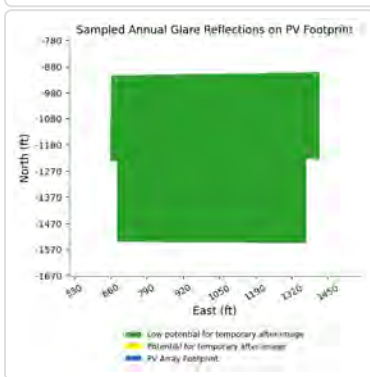
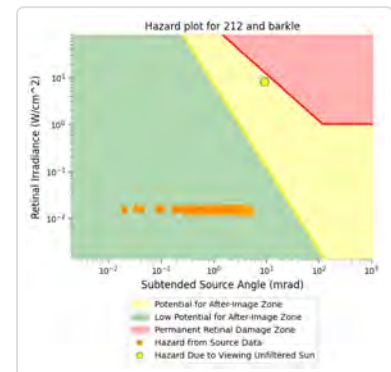
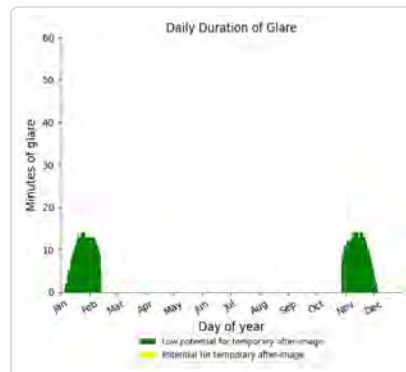
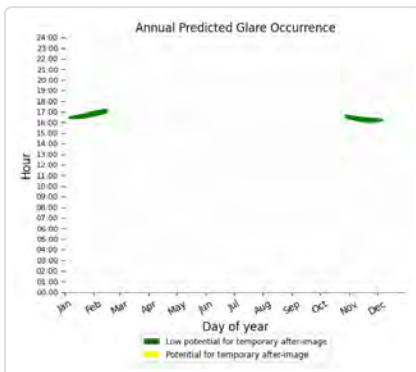
212: Barkley Regional Airport Runway 14

No glare found

212: Barkley Regional Airport Runway 23

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

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



212: Barkley Regional Airport Runway 32

No glare found

212: Barkley Regional Airport Runway 5

No glare found

212: 1-ATCT

No glare found

212: OP 2

No glare found

212: OP 3

No glare found

212: OP 4

No glare found

212: OP 5

No glare found

212: OP 6

No glare found

212: OP 7

No glare found

212: OP 8

No glare found

212: OP 9

No glare found

212: OP 10

No glare found

212: OP 11

No glare found

212: OP 12

No glare found

212: OP 13

No glare found

212: OP 14

No glare found

212: OP 15

No glare found

212: OP 16

No glare found

212: OP 17

No glare found

212: OP 18

No glare found

212: OP 19

No glare found

212: OP 20

No glare found

212: OP 21

No glare found

212: OP 22

No glare found

212: OP 23

No glare found

212: OP 24

No glare found

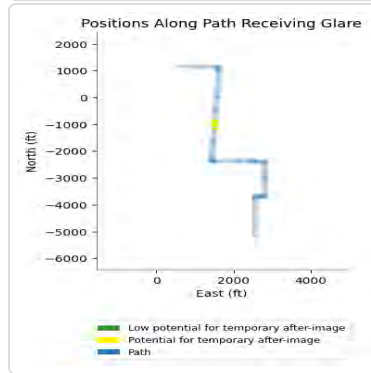
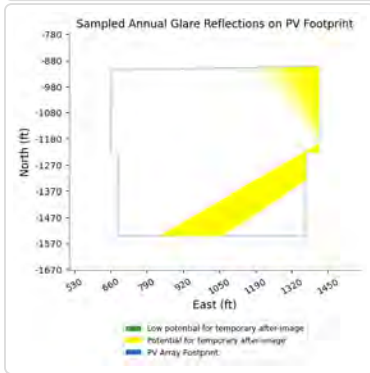
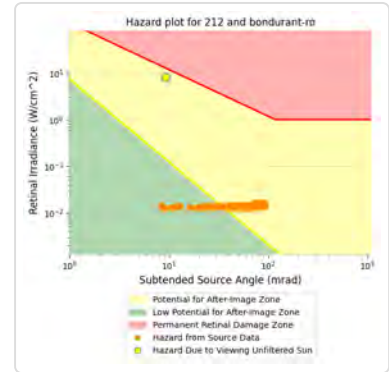
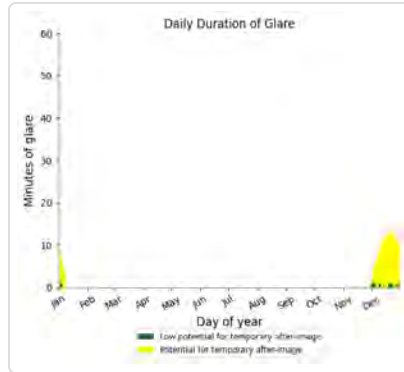
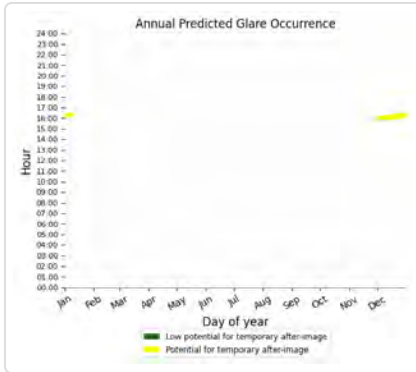
212: OP 25

No glare found

212: Bondurant Road

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

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



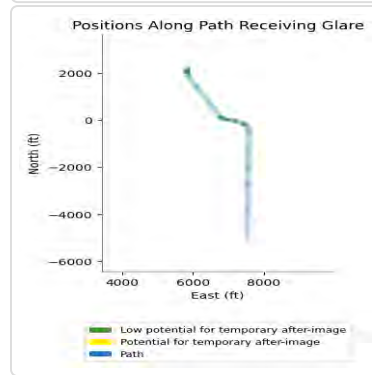
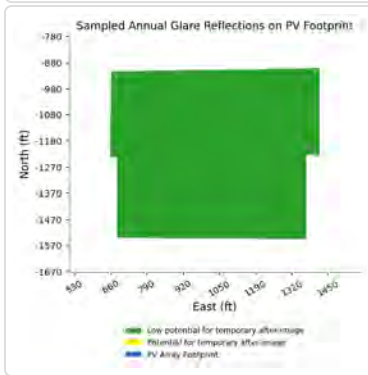
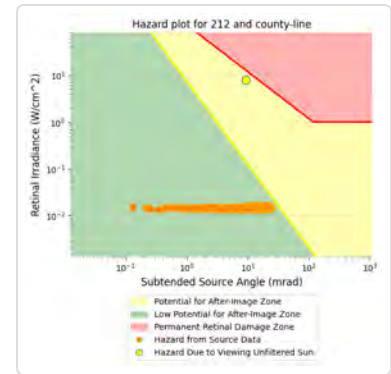
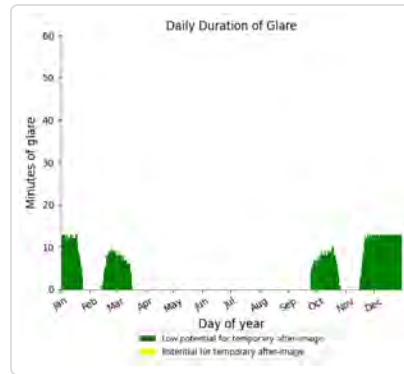
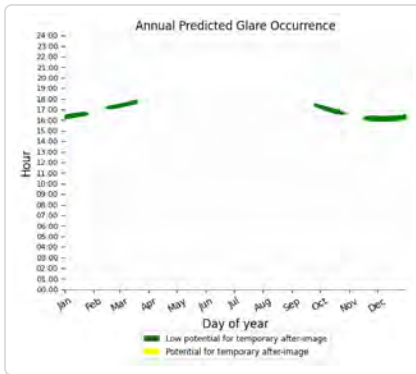
212: Buchanan Lane

No glare found

212: County Line Road

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

- 1,282 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



212: Gage Road

No glare found

213 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

214 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	1005	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	109	0
OP: OP 2	0	0
OP: OP 3	0	0

OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	47	0
Route: Buchanan Lane	0	0
Route: County Line Road	1295	109
Route: Gage Road	0	0

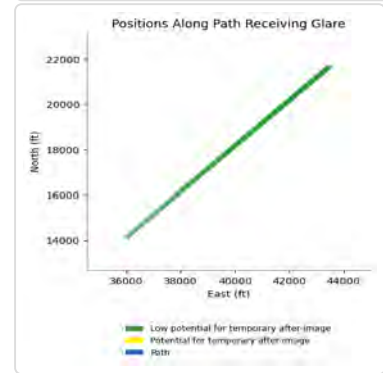
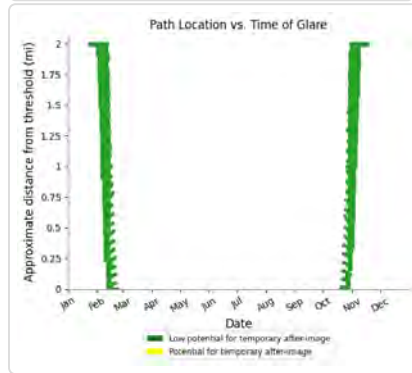
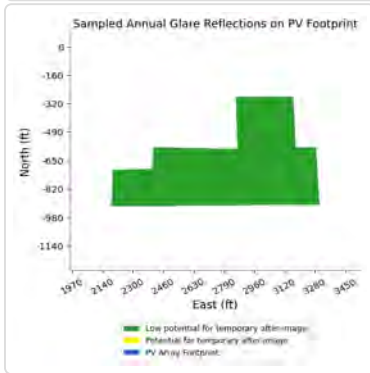
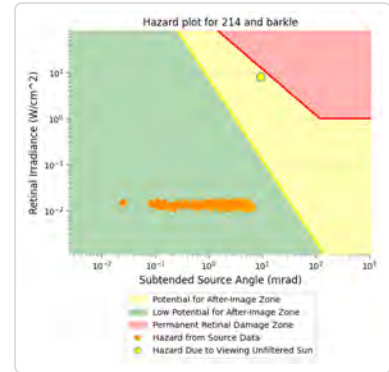
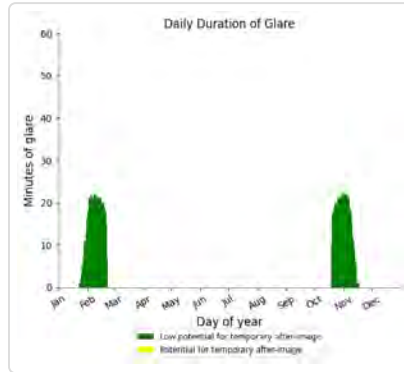
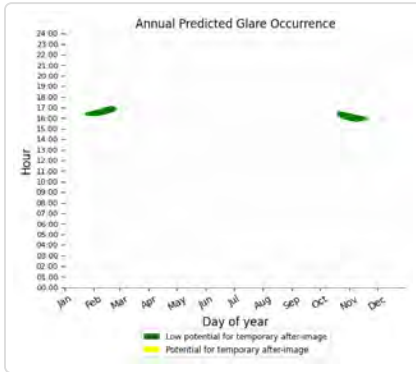
214: Barkley Regional Airport Runway 14

No glare found

214: Barkley Regional Airport Runway 23

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

- 1,005 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



214: Barkley Regional Airport Runway 32

No glare found

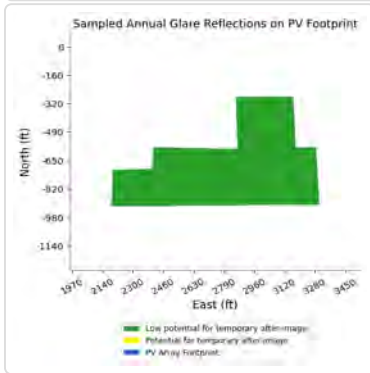
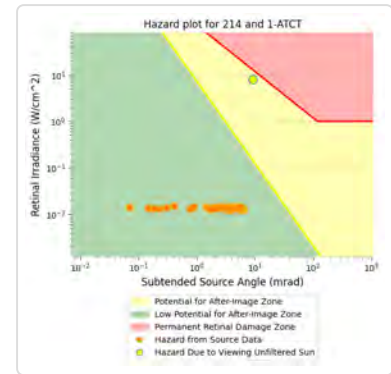
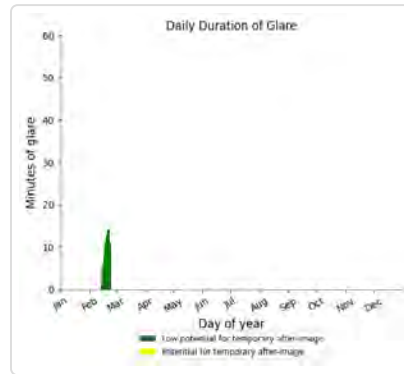
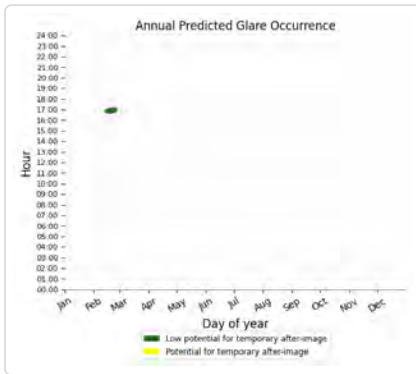
214: Barkley Regional Airport Runway 5

No glare found

214: 1-ATCT

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

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



214: OP 2

No glare found

214: OP 3

No glare found

214: OP 4

No glare found

214: OP 5

No glare found

214: OP 6

No glare found

214: OP 7

No glare found

214: OP 8

No glare found

214: OP 9

No glare found

214: OP 10

No glare found

214: OP 11

No glare found

214: OP 12

No glare found

214: OP 13

No glare found

214: OP 14

No glare found

214: OP 15

No glare found

214: OP 16

No glare found

214: OP 17

No glare found

214: OP 18

No glare found

214: OP 19

No glare found

214: OP 20

No glare found

214: OP 21

No glare found

214: OP 22

No glare found

214: OP 23

No glare found

214: OP 24

No glare found

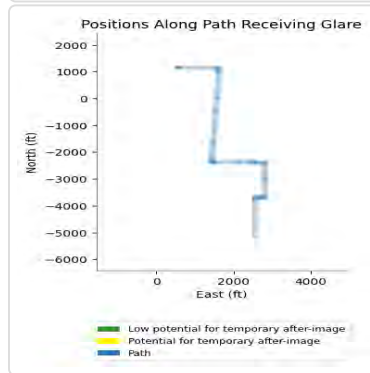
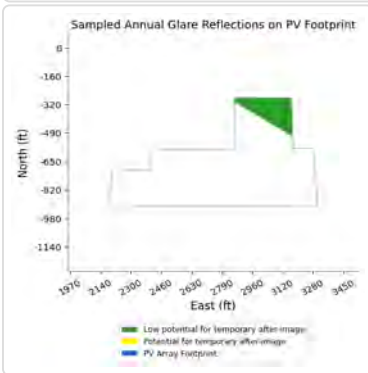
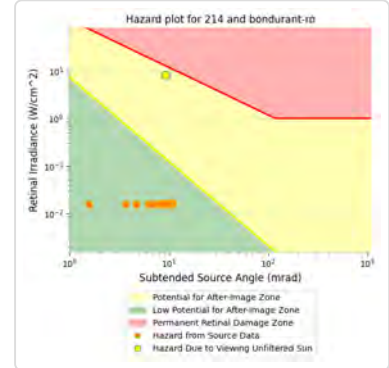
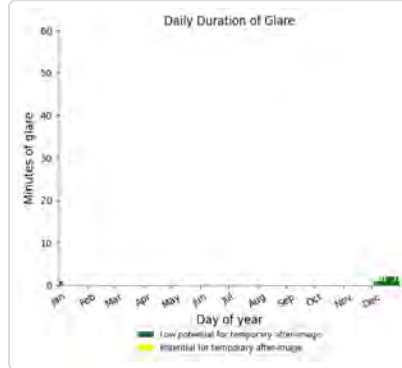
214: OP 25

No glare found

214: Bondurant Road

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

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



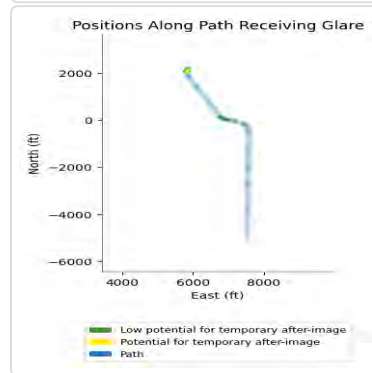
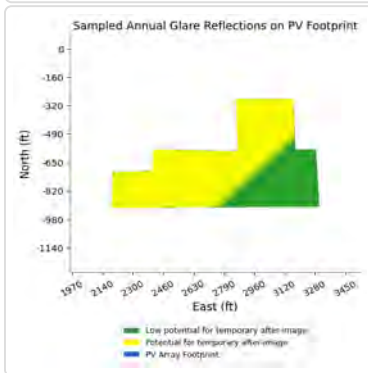
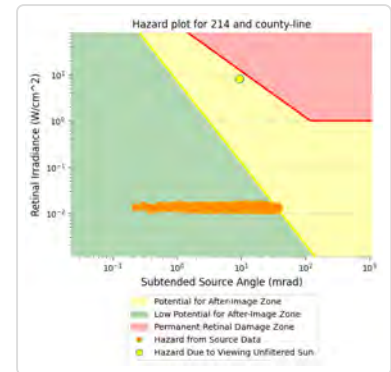
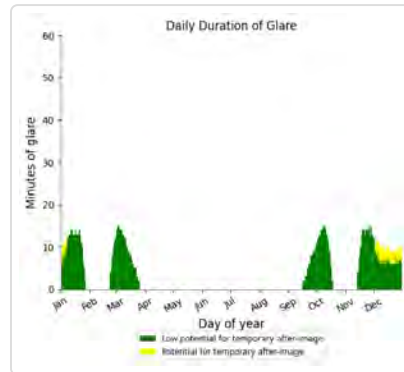
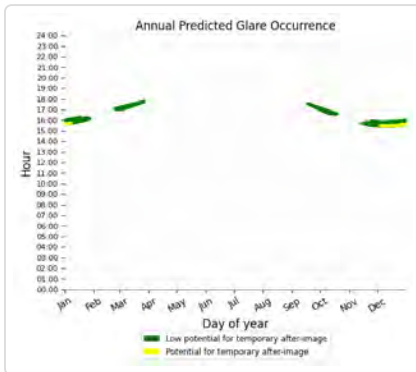
214: Buchanan Lane

No glare found

214: County Line Road

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

- 1,295 minutes of "green" glare with low potential to cause temporary after-image.
- 109 minutes of "yellow" glare with potential to cause temporary after-image.



214: Gage Road

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 2 9ft vehicles 10 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98061.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
201	SA tracking	SA tracking	0	0	-
202	SA tracking	SA tracking	0	0	-
203	SA tracking	SA tracking	0	0	-
204	SA tracking	SA tracking	0	0	-
205	SA tracking	SA tracking	4,723	0	-
206	SA tracking	SA tracking	0	0	-
207	SA tracking	SA tracking	0	0	-
208	SA tracking	SA tracking	0	0	-
209	SA tracking	SA tracking	107	16	-
210	SA tracking	SA tracking	0	0	-
211	SA tracking	SA tracking	0	0	-
212	SA tracking	SA tracking	0	0	-
213	SA tracking	SA tracking	0	0	-
214	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 212.1 acres

Name: 201

Footprint area: 11.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027373	-88.889642	466.81	7.50	474.31
2	37.026487	-88.889642	471.28	7.50	478.78
3	37.026491	-88.888929	468.99	7.50	476.49
4	37.025596	-88.888902	469.68	7.50	477.18
5	37.025545	-88.892330	467.73	7.50	475.23
6	37.025532	-88.892598	467.38	7.50	474.88
7	37.026337	-88.892576	467.68	7.50	475.18
8	37.026346	-88.891697	472.53	7.50	480.03
9	37.027104	-88.891675	462.02	7.50	469.52
10	37.027099	-88.890946	472.32	7.50	479.82
11	37.027352	-88.890951	472.65	7.50	480.15

Name: 202

Footprint area: 22.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024872	-88.882934	438.15	7.50	445.65
2	37.024894	-88.878122	428.53	7.50	436.03
3	37.023973	-88.878074	430.21	7.50	437.71
4	37.023960	-88.878530	431.84	7.50	439.34
5	37.023061	-88.878535	432.59	7.50	440.09
6	37.023018	-88.883626	447.70	7.50	455.20
7	37.023866	-88.883562	438.99	7.50	446.49
8	37.023861	-88.882993	438.61	7.50	446.11

Name: 203

Footprint area: 19.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023052	-88.879383	444.26	7.50	451.76
2	37.022337	-88.879350	439.16	7.50	446.66
3	37.022337	-88.879511	440.91	7.50	448.41
4	37.022041	-88.879495	440.11	7.50	447.61
5	37.022041	-88.880155	444.02	7.50	451.52
6	37.021532	-88.880150	441.43	7.50	448.93
7	37.021519	-88.880488	446.53	7.50	454.03
8	37.021296	-88.880488	444.14	7.50	451.64
9	37.021163	-88.884313	462.60	7.50	470.10
10	37.022988	-88.884345	443.85	7.50	451.35
11	37.023009	-88.883626	447.76	7.50	455.26

Name: 204

Footprint area: 21.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020662	-88.883690	466.67	7.50	474.17
2	37.020666	-88.880305	448.31	7.50	455.81
3	37.018075	-88.880256	468.65	7.50	476.15
4	37.018101	-88.883679	471.87	7.50	479.37

Name: 205

Footprint area: 4.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022367	-88.878476	436.15	7.50	443.65
2	37.022375	-88.877666	431.55	7.50	439.05
3	37.021789	-88.877639	449.35	7.50	456.85
4	37.021793	-88.877505	448.74	7.50	456.24
5	37.020868	-88.877468	454.54	7.50	462.04
6	37.020851	-88.879238	455.72	7.50	463.22
7	37.021746	-88.879238	437.99	7.50	445.49
8	37.021746	-88.878524	441.10	7.50	448.60

Name: 206

Footprint area: 23.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017445	-88.880246	472.86	7.50	480.36
2	37.017407	-88.881147	475.42	7.50	482.92
3	37.017158	-88.881147	475.73	7.50	483.23
4	37.017154	-88.881206	475.76	7.50	483.26
5	37.014456	-88.881115	478.37	7.50	485.87
6	37.014486	-88.883625	464.20	7.50	471.70
7	37.018096	-88.883679	471.87	7.50	479.37
8	37.018071	-88.880251	468.66	7.50	476.16

Name: 207

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020274	-88.879793	448.99	7.50	456.49
2	37.020345	-88.877505	457.82	7.50	465.32
3	37.020067	-88.877497	458.22	7.50	465.72
4	37.020090	-88.877020	455.99	7.50	463.49
5	37.019521	-88.876977	454.08	7.50	461.58
6	37.019529	-88.876518	444.63	7.50	452.13
7	37.018658	-88.876478	445.45	7.50	452.95
8	37.018566	-88.879713	461.78	7.50	469.28

Name: 208

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

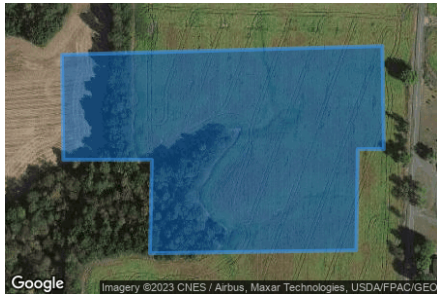
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025600	-88.889051	469.88	7.50	477.38
2	37.024692	-88.889035	470.58	7.50	478.08
3	37.024692	-88.889325	470.55	7.50	478.05
4	37.023801	-88.889341	470.64	7.50	478.14
5	37.023776	-88.891632	469.22	7.50	476.72
6	37.024598	-88.891610	462.63	7.50	470.13
7	37.024598	-88.892592	452.03	7.50	459.53
8	37.025523	-88.892608	467.43	7.50	474.93

Name: 209

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023690	-88.892431	464.64	7.50	472.14
2	37.023682	-88.889336	470.64	7.50	478.14
3	37.021990	-88.889277	460.59	7.50	468.09
4	37.021994	-88.889513	462.45	7.50	469.95
5	37.021322	-88.889481	459.56	7.50	467.06
6	37.021343	-88.891422	459.60	7.50	467.10
7	37.022011	-88.891396	470.27	7.50	477.77
8	37.022028	-88.892436	471.50	7.50	479.00

Name: 210

Footprint area: 12.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029339	-88.886016	453.14	7.50	460.64
2	37.029335	-88.884342	436.81	7.50	444.31
3	37.028380	-88.884412	447.41	7.50	454.91
4	37.028384	-88.884755	445.97	7.50	453.47
5	37.026716	-88.884747	450.76	7.50	458.26
6	37.026673	-88.887019	465.32	7.50	472.82
7	37.027515	-88.886979	468.64	7.50	476.14
8	37.027515	-88.886461	468.62	7.50	476.12
9	37.028202	-88.886410	462.24	7.50	469.74
10	37.028202	-88.886238	462.22	7.50	469.72
11	37.029039	-88.886236	453.07	7.50	460.57
12	37.029039	-88.886048	457.04	7.50	464.54

Name: 211

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.026592	-88.887258	468.21	7.50	475.71
2	37.026641	-88.884763	449.31	7.50	456.81
3	37.025776	-88.884728	455.41	7.50	462.91
4	37.025767	-88.884822	455.51	7.50	463.01
5	37.024879	-88.884798	450.01	7.50	457.51
6	37.024836	-88.887928	458.50	7.50	466.00
7	37.025727	-88.887885	471.11	7.50	478.61
8	37.025727	-88.887432	468.38	7.50	475.88
9	37.026320	-88.887381	468.45	7.50	475.95
10	37.026311	-88.887279	468.43	7.50	475.93

Name: 212

Footprint area: 10.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024842	-88.887381	460.51	7.50	468.01
2	37.023960	-88.887397	460.65	7.50	468.15
3	37.023960	-88.887306	460.27	7.50	467.77
4	37.023133	-88.887311	463.53	7.50	471.03
5	37.023121	-88.884972	443.33	7.50	450.83
6	37.023990	-88.884972	449.09	7.50	456.59
7	37.023977	-88.884806	449.89	7.50	457.39
8	37.024877	-88.884806	450.18	7.50	457.68

Name: 213

Footprint area: 24.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029947	-88.882204	432.03	7.50	439.53
2	37.029934	-88.880933	421.04	7.50	428.54
3	37.029939	-88.880675	420.99	7.50	428.49
4	37.029005	-88.880654	421.83	7.50	429.33
5	37.028089	-88.880633	425.76	7.50	433.26
6	37.028110	-88.880241	422.63	7.50	430.13
7	37.027236	-88.880257	425.13	7.50	432.63
8	37.027258	-88.881325	439.20	7.50	446.70
9	37.026354	-88.881367	429.90	7.50	437.40
10	37.026367	-88.882151	437.75	7.50	445.25
11	37.025695	-88.882183	428.80	7.50	436.30
12	37.025695	-88.883143	439.54	7.50	447.04
13	37.025399	-88.883165	435.79	7.50	443.29
14	37.025416	-88.884093	448.93	7.50	456.43
15	37.026131	-88.884066	452.06	7.50	459.56
16	37.026136	-88.883964	451.39	7.50	458.89
17	37.028114	-88.883953	452.48	7.50	459.98
18	37.028119	-88.882322	445.84	7.50	453.34

Name: 214

Footprint area: 9.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024855	-88.882161	443.07	7.50	450.57
2	37.025412	-88.882135	436.26	7.50	443.76
3	37.025429	-88.881410	437.18	7.50	444.68
4	37.025772	-88.881389	430.47	7.50	437.97
5	37.025742	-88.879828	436.65	7.50	444.15
6	37.026572	-88.879860	426.32	7.50	433.82
7	37.026572	-88.878814	426.25	7.50	433.75
8	37.025772	-88.878771	429.51	7.50	437.01
9	37.025772	-88.878396	426.19	7.50	433.69
10	37.024885	-88.878331	429.53	7.50	437.03

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14
Description:
Threshold height : 50 ft
Direction: 142.6 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23
Description:
Threshold height : 50 ft
Direction: 224.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32
Description:
Threshold height : 50 ft
Direction: 323.3 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17

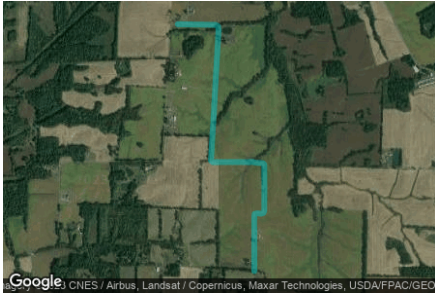


Route Receptor(s)

Name: Bondurant Road

Route type: Two-way

View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.030561	-88.887694	447.45	9.00	456.45
2	37.030514	-88.884336	433.31	9.00	442.31
3	37.030416	-88.884116	433.62	9.00	442.62
4	37.030125	-88.884073	431.70	9.00	440.70
5	37.027504	-88.884266	455.15	9.00	464.15
6	37.026167	-88.884363	451.34	9.00	460.34
7	37.024223	-88.884497	451.07	9.00	460.07
8	37.022763	-88.884615	448.20	9.00	457.20
9	37.021422	-88.884711	464.10	9.00	473.10
10	37.020942	-88.884744	466.66	9.00	475.66
11	37.020857	-88.884620	467.69	9.00	476.69
12	37.020844	-88.884524	468.62	9.00	477.62
13	37.020861	-88.882260	453.42	9.00	462.42
14	37.020844	-88.881391	448.56	9.00	457.56
15	37.020869	-88.881090	445.24	9.00	454.24
16	37.020810	-88.880731	444.21	9.00	453.21
17	37.020767	-88.880114	446.66	9.00	455.66
18	37.020681	-88.880018	446.23	9.00	455.23
19	37.019079	-88.880001	457.75	9.00	466.75
20	37.017400	-88.880018	470.81	9.00	479.81
21	37.017267	-88.880098	471.35	9.00	480.35
22	37.017220	-88.880296	473.26	9.00	482.26
23	37.017250	-88.880613	472.79	9.00	481.79
24	37.017203	-88.880870	474.27	9.00	483.27
25	37.017036	-88.880903	475.67	9.00	484.67
26	37.013177	-88.880897	477.52	9.00	486.52

Name: Buchanan Lane

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.013142	-88.880071	476.30	9.00	485.30
2	37.013207	-88.881541	476.30	9.00	485.30
3	37.013305	-88.883703	462.73	9.00	471.73
4	37.013421	-88.885586	445.94	9.00	454.94
5	37.013511	-88.887200	457.92	9.00	466.92
6	37.013567	-88.888719	444.71	9.00	453.71
7	37.013571	-88.890677	456.15	9.00	465.15
8	37.013541	-88.892034	456.70	9.00	465.70

9	37.013502	-88.893171	458.58	9.00	467.58
10	37.013519	-88.893611	452.79	9.00	461.79
11	37.013678	-88.894158	436.73	9.00	445.73
12	37.014530	-88.896062	407.34	9.00	416.34
13	37.014787	-88.896599	406.39	9.00	415.39
14	37.014873	-88.897103	408.73	9.00	417.73
15	37.014954	-88.898015	406.00	9.00	415.00
16	37.015036	-88.898257	408.12	9.00	417.12

Name: County Line Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.033389	-88.869601	432.04	9.00	441.04
2	37.032978	-88.869671	438.10	9.00	447.10
3	37.032425	-88.869494	445.45	9.00	454.45
4	37.031162	-88.868673	447.90	9.00	456.90
5	37.029230	-88.867439	459.23	9.00	468.23
6	37.027713	-88.866397	471.51	9.00	480.51
7	37.027422	-88.865839	467.59	9.00	476.59
8	37.027277	-88.865072	465.66	9.00	474.66
9	37.026921	-88.864160	467.57	9.00	476.57
10	37.026441	-88.863763	474.72	9.00	483.72
11	37.025829	-88.863688	474.78	9.00	483.78
12	37.023773	-88.863742	478.06	9.00	487.06
13	37.021786	-88.863753	477.68	9.00	486.68
14	37.019983	-88.863779	474.74	9.00	483.74
15	37.016882	-88.863801	461.36	9.00	470.36
16	37.013627	-88.863833	471.01	9.00	480.01

Name: Gage Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.015074	-88.898246	407.72	9.00	416.72
2	37.015267	-88.898160	410.58	9.00	419.58
3	37.017057	-88.898187	443.60	9.00	452.60
4	37.018308	-88.898106	448.37	9.00	457.37
5	37.019627	-88.898117	436.71	9.00	445.71
6	37.020338	-88.898112	446.63	9.00	455.63
7	37.020595	-88.897978	456.15	9.00	465.15
8	37.020728	-88.897666	459.19	9.00	468.19
9	37.020814	-88.890746	454.01	9.00	463.01
10	37.020848	-88.889754	455.16	9.00	464.16
11	37.020899	-88.889303	452.82	9.00	461.82
12	37.021238	-88.888939	455.41	9.00	464.41
13	37.022488	-88.888842	461.33	9.00	470.33
14	37.024934	-88.888676	469.78	9.00	478.78
15	37.026150	-88.888595	468.73	9.00	477.73
16	37.027713	-88.888477	453.57	9.00	462.57
17	37.029705	-88.888332	443.21	9.00	452.21
18	37.030210	-88.888236	446.62	9.00	455.62
19	37.030454	-88.888059	446.87	9.00	455.87
20	37.030566	-88.887780	448.49	9.00	457.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.021557	-88.893150	473.33	16.00	489.33
OP 3	37.020504	-88.890377	455.38	16.00	471.38
OP 4	37.021232	-88.895977	456.56	16.00	472.56
OP 5	37.023223	-88.888435	469.28	16.00	485.28
OP 6	37.023634	-88.888413	468.20	16.00	484.20
OP 7	37.026817	-88.888081	464.36	16.00	480.36
OP 8	37.027497	-88.887957	470.88	16.00	486.88
OP 9	37.028444	-88.887437	469.17	16.00	485.17
OP 10	37.029324	-88.883419	447.72	16.00	463.72
OP 11	37.031431	-88.886256	458.82	16.00	474.82
OP 12	37.033009	-88.886310	449.93	16.00	465.93
OP 13	37.009645	-88.880298	483.65	16.00	499.65
OP 14	37.011607	-88.880080	477.28	16.00	493.28
OP 15	37.011941	-88.880850	478.82	16.00	494.82
OP 16	37.013639	-88.881269	478.83	16.00	494.83
OP 17	37.012907	-88.883900	469.84	16.00	485.84
OP 18	37.012965	-88.884903	464.68	16.00	480.68
OP 19	37.013860	-88.887392	460.59	16.00	476.59
OP 20	37.018394	-88.897432	455.76	16.00	471.76
OP 21	37.020501	-88.899170	443.86	16.00	459.86
OP 22	37.021152	-88.869108	475.25	16.00	491.25
OP 23	37.020604	-88.864173	477.24	16.00	493.24
OP 24	37.019099	-88.863537	476.37	16.00	492.37
OP 25	37.017949	-88.864264	473.20	16.00	489.20

1-ATCT map image



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	
201	SA tracking	SA tracking	0	0	-	-
202	SA tracking	SA tracking	0	0	-	-
203	SA tracking	SA tracking	0	0	-	-
204	SA tracking	SA tracking	0	0	-	-
205	SA tracking	SA tracking	4,723	0	-	-
206	SA tracking	SA tracking	0	0	-	-
207	SA tracking	SA tracking	0	0	-	-
208	SA tracking	SA tracking	0	0	-	-
209	SA tracking	SA tracking	107	16	-	-
210	SA tracking	SA tracking	0	0	-	-
211	SA tracking	SA tracking	0	0	-	-
212	SA tracking	SA tracking	0	0	-	-
213	SA tracking	SA tracking	0	0	-	-
214	SA tracking	SA tracking	0	0	-	-

Distinct glare per month

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

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
205 (green)	893	0	0	0	0	0	0	0	0	0	561	940
205 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
209 (green)	0	0	0	0	0	28	79	0	0	0	0	0
209 (yellow)	0	0	0	0	0	11	5	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

201 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

205 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0

OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	1651	0
OP: OP 11	71	0
OP: OP 12	876	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	1926	0
Route: Buchanan Lane	0	0
Route: County Line Road	199	0
Route: Gage Road	0	0

205: Barkley Regional Airport Runway 14

No glare found

205: Barkley Regional Airport Runway 23

No glare found

205: Barkley Regional Airport Runway 32

No glare found

205: Barkley Regional Airport Runway 5

No glare found

205: 1-ATCT

No glare found

205: OP 2

No glare found

205: OP 3

No glare found

205: OP 4

No glare found

205: OP 5

No glare found

205: OP 6

No glare found

205: OP 7

No glare found

205: OP 8

No glare found

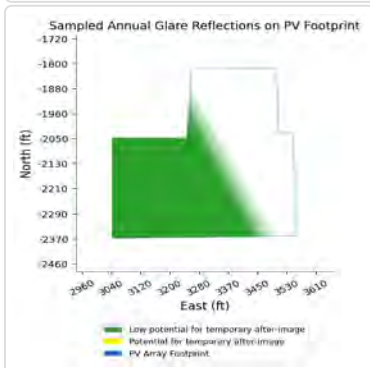
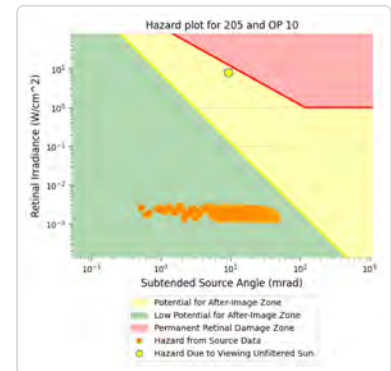
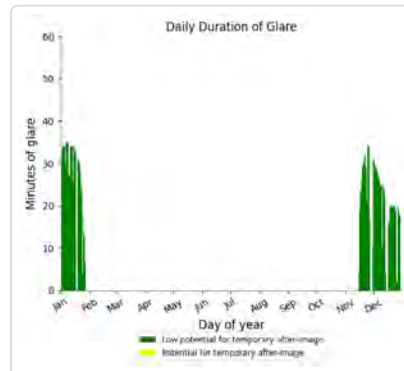
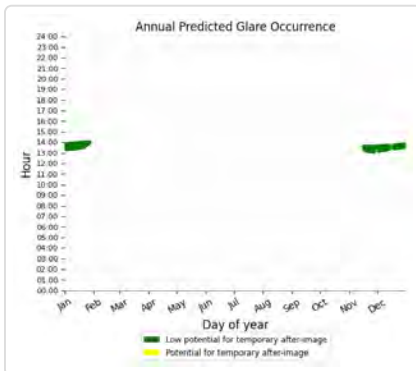
205: OP 9

No glare found

205: OP 10

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

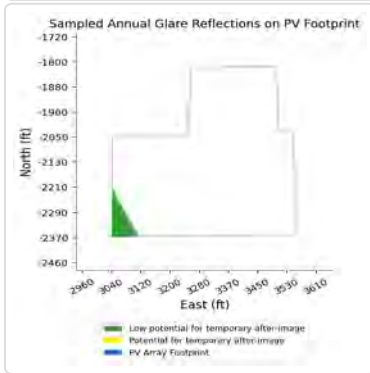
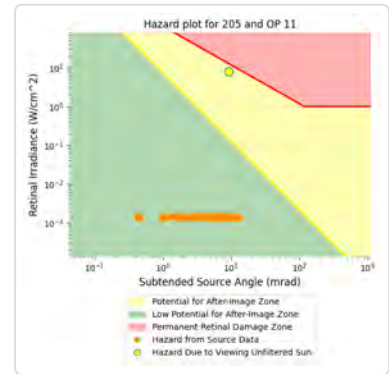
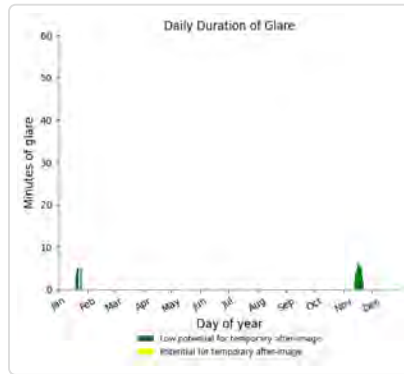
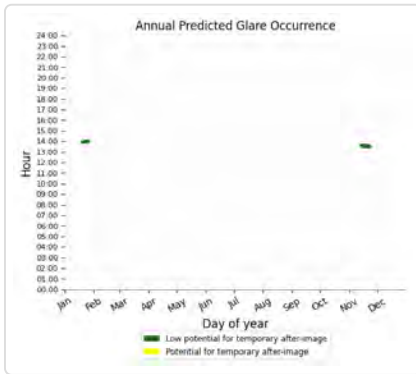
- 1,651 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 11

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

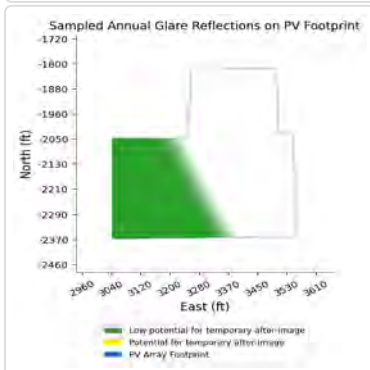
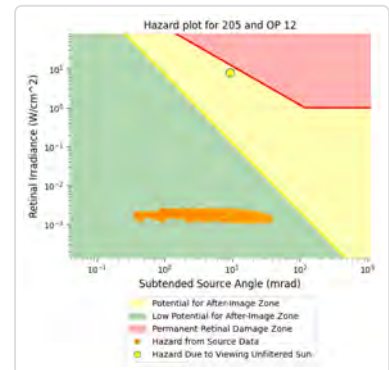
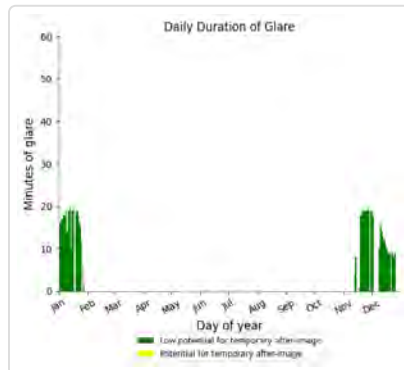
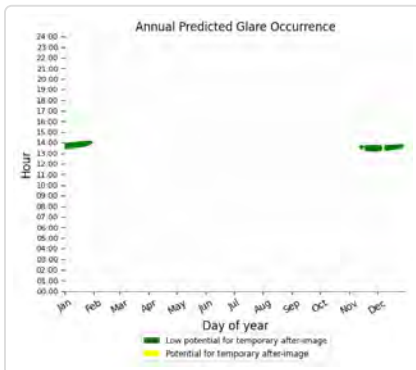
- 71 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 12

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

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



205: OP 13

No glare found

205: OP 14

No glare found

205: OP 15

No glare found

205: OP 16

No glare found

205: OP 17

No glare found

205: OP 18

No glare found

205: OP 19

No glare found

205: OP 20

No glare found

205: OP 21

No glare found

205: OP 22

No glare found

205: OP 23

No glare found

205: OP 24

No glare found

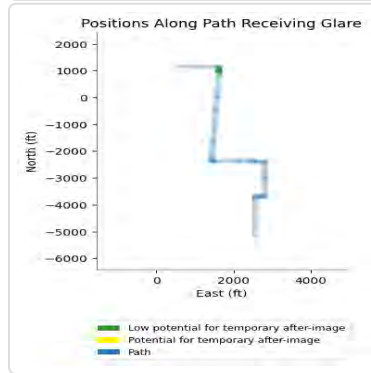
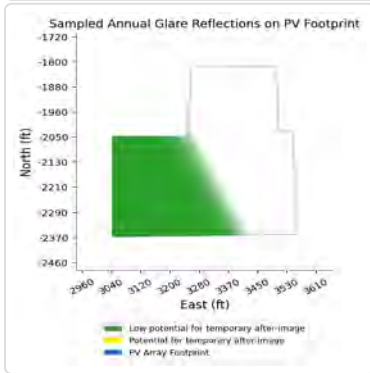
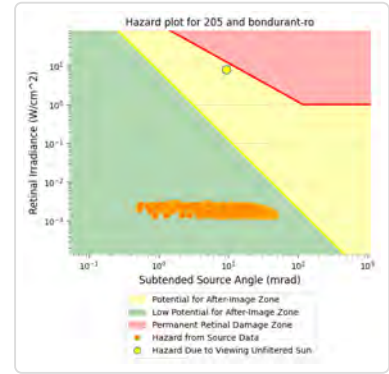
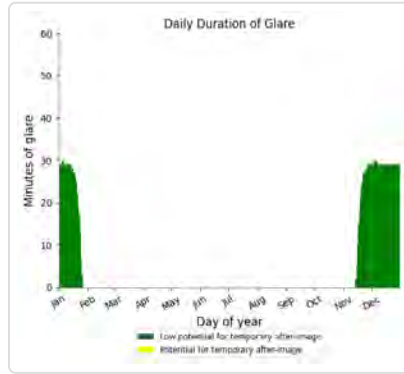
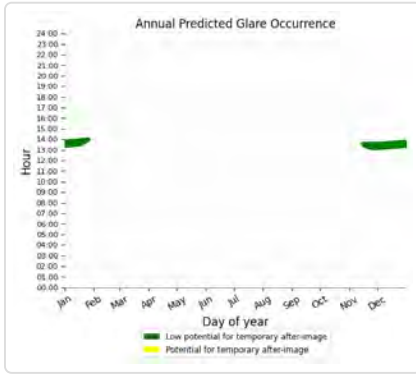
205: OP 25

No glare found

205: Bondurant Road

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

- 1,926 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



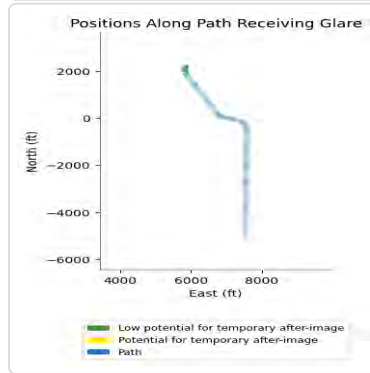
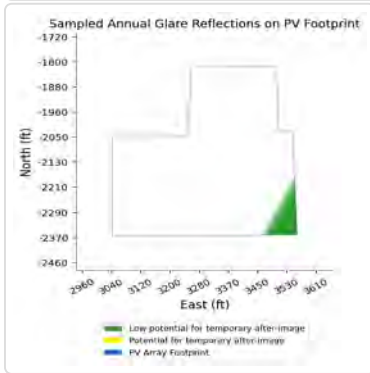
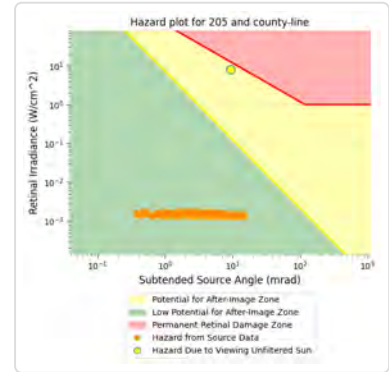
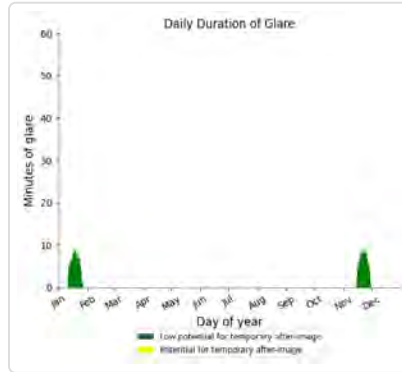
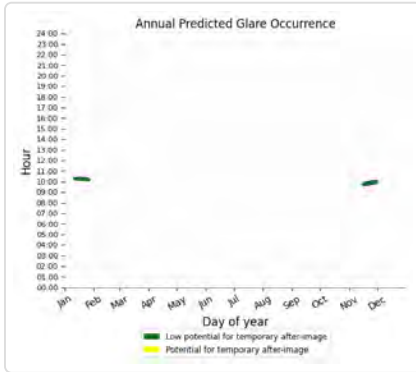
205: Buchanan Lane

No glare found

205: County Line Road

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

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



205: Gage Road

No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

209 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	107	16
OP: OP 3	0	0

OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

209: Barkley Regional Airport Runway 14

No glare found

209: Barkley Regional Airport Runway 23

No glare found

209: Barkley Regional Airport Runway 32

No glare found

209: Barkley Regional Airport Runway 5

No glare found

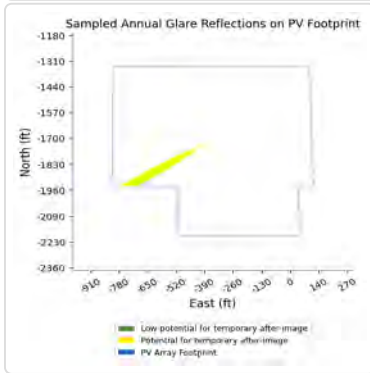
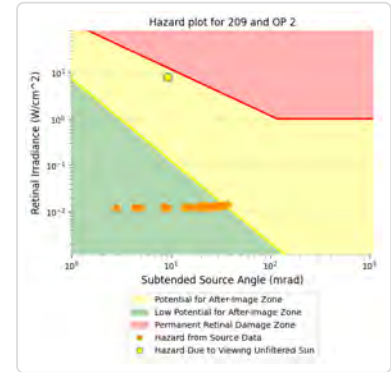
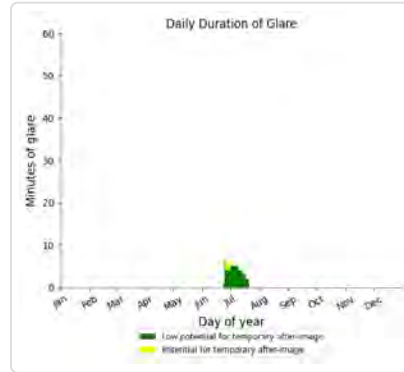
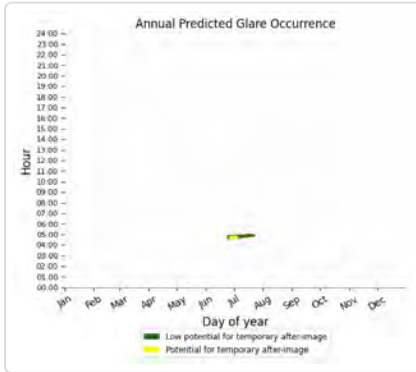
209: 1-ATCT

No glare found

209: OP 2

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

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



209: OP 3

No glare found

209: OP 4

No glare found

209: OP 5

No glare found

209: OP 6

No glare found

209: OP 7

No glare found

209: OP 8

No glare found

209: OP 9

No glare found

209: OP 10

No glare found

209: OP 11

No glare found

209: OP 12

No glare found

209: OP 13

No glare found

209: OP 14

No glare found

209: OP 15

No glare found

209: OP 16

No glare found

209: OP 17

No glare found

209: OP 18

No glare found

209: OP 19

No glare found

209: OP 20

No glare found

209: OP 21

No glare found

209: OP 22

No glare found

209: OP 23

No glare found

209: OP 24

No glare found

209: OP 25

No glare found

209: Bondurant Road

No glare found

209: Buchanan Lane

No glare found

209: County Line Road

No glare found

209: Gage Road

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.

- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 2 9ft vehicles 60 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98012.17111

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

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
201	SA tracking	SA tracking	0	0	-
202	SA tracking	SA tracking	0	0	-
203	SA tracking	SA tracking	0	0	-
204	SA tracking	SA tracking	0	0	-
205	SA tracking	SA tracking	4,142	0	-
206	SA tracking	SA tracking	0	0	-
207	SA tracking	SA tracking	0	0	-
208	SA tracking	SA tracking	0	0	-
209	SA tracking	SA tracking	0	0	-
210	SA tracking	SA tracking	0	0	-
211	SA tracking	SA tracking	0	0	-
212	SA tracking	SA tracking	0	0	-
213	SA tracking	SA tracking	0	0	-
214	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 212.1 acres

Name: 201

Footprint area: 11.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027373	-88.889642	466.81	7.50	474.31
2	37.026487	-88.889642	471.28	7.50	478.78
3	37.026491	-88.888929	468.99	7.50	476.49
4	37.025596	-88.888902	469.68	7.50	477.18
5	37.025545	-88.892330	467.73	7.50	475.23
6	37.025532	-88.892598	467.38	7.50	474.88
7	37.026337	-88.892576	467.68	7.50	475.18
8	37.026346	-88.891697	472.53	7.50	480.03
9	37.027104	-88.891675	462.02	7.50	469.52
10	37.027099	-88.890946	472.32	7.50	479.82
11	37.027352	-88.890951	472.65	7.50	480.15

Name: 202

Footprint area: 22.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024872	-88.882934	438.15	7.50	445.65
2	37.024894	-88.878122	428.53	7.50	436.03
3	37.023973	-88.878074	430.21	7.50	437.71
4	37.023960	-88.878530	431.84	7.50	439.34
5	37.023061	-88.878535	432.59	7.50	440.09
6	37.023018	-88.883626	447.70	7.50	455.20
7	37.023866	-88.883562	438.99	7.50	446.49
8	37.023861	-88.882993	438.61	7.50	446.11

Name: 203

Footprint area: 19.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023052	-88.879383	444.26	7.50	451.76
2	37.022337	-88.879350	439.16	7.50	446.66
3	37.022337	-88.879511	440.91	7.50	448.41
4	37.022041	-88.879495	440.11	7.50	447.61
5	37.022041	-88.880155	444.02	7.50	451.52
6	37.021532	-88.880150	441.43	7.50	448.93
7	37.021519	-88.880488	446.53	7.50	454.03
8	37.021296	-88.880488	444.14	7.50	451.64
9	37.021163	-88.884313	462.60	7.50	470.10
10	37.022988	-88.884345	443.85	7.50	451.35
11	37.023009	-88.883626	447.76	7.50	455.26

Name: 204

Footprint area: 21.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020662	-88.883690	466.67	7.50	474.17
2	37.020666	-88.880305	448.31	7.50	455.81
3	37.018075	-88.880256	468.65	7.50	476.15
4	37.018101	-88.883679	471.87	7.50	479.37

Name: 205

Footprint area: 4.9 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022367	-88.878476	436.15	7.50	443.65
2	37.022375	-88.877666	431.55	7.50	439.05
3	37.021789	-88.877639	449.35	7.50	456.85
4	37.021793	-88.877505	448.74	7.50	456.24
5	37.020868	-88.877468	454.54	7.50	462.04
6	37.020851	-88.879238	455.72	7.50	463.22
7	37.021746	-88.879238	437.99	7.50	445.49
8	37.021746	-88.878524	441.10	7.50	448.60

Name: 206

Footprint area: 23.3 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017445	-88.880246	472.86	7.50	480.36
2	37.017407	-88.881147	475.42	7.50	482.92
3	37.017158	-88.881147	475.73	7.50	483.23
4	37.017154	-88.881206	475.76	7.50	483.26
5	37.014456	-88.881115	478.37	7.50	485.87
6	37.014486	-88.883625	464.20	7.50	471.70
7	37.018096	-88.883679	471.87	7.50	479.37
8	37.018071	-88.880251	468.66	7.50	476.16

Name: 207

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

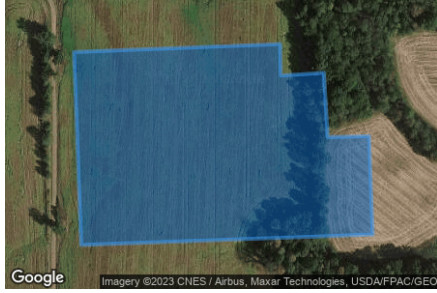
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020274	-88.879793	448.99	7.50	456.49
2	37.020345	-88.877505	457.82	7.50	465.32
3	37.020067	-88.877497	458.22	7.50	465.72
4	37.020090	-88.877020	455.99	7.50	463.49
5	37.019521	-88.876977	454.08	7.50	461.58
6	37.019529	-88.876518	444.63	7.50	452.13
7	37.018658	-88.876478	445.45	7.50	452.95
8	37.018566	-88.879713	461.78	7.50	469.28

Name: 208

Footprint area: 12.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

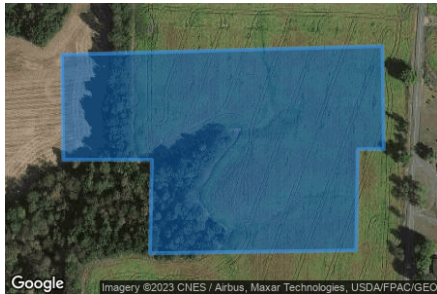
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.025600	-88.889051	469.88	7.50	477.38
2	37.024692	-88.889035	470.58	7.50	478.08
3	37.024692	-88.889325	470.55	7.50	478.05
4	37.023801	-88.889341	470.64	7.50	478.14
5	37.023776	-88.891632	469.22	7.50	476.72
6	37.024598	-88.891610	462.63	7.50	470.13
7	37.024598	-88.892592	452.03	7.50	459.53
8	37.025523	-88.892608	467.43	7.50	474.93

Name: 209

Footprint area: 15.5 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023690	-88.892431	464.64	7.50	472.14
2	37.023682	-88.889336	470.64	7.50	478.14
3	37.021990	-88.889277	460.59	7.50	468.09
4	37.021994	-88.889513	462.45	7.50	469.95
5	37.021322	-88.889481	459.56	7.50	467.06
6	37.021343	-88.891422	459.60	7.50	467.10
7	37.022011	-88.891396	470.27	7.50	477.77
8	37.022028	-88.892436	471.50	7.50	479.00

Name: 210

Footprint area: 12.1 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029339	-88.886016	453.14	7.50	460.64
2	37.029335	-88.884342	436.81	7.50	444.31
3	37.028380	-88.884412	447.41	7.50	454.91
4	37.028384	-88.884755	445.97	7.50	453.47
5	37.026716	-88.884747	450.76	7.50	458.26
6	37.026673	-88.887019	465.32	7.50	472.82
7	37.027515	-88.886979	468.64	7.50	476.14
8	37.027515	-88.886461	468.62	7.50	476.12
9	37.028202	-88.886410	462.24	7.50	469.74
10	37.028202	-88.886238	462.22	7.50	469.72
11	37.029039	-88.886236	453.07	7.50	460.57
12	37.029039	-88.886048	457.04	7.50	464.54

Name: 211

Footprint area: 12.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.026592	-88.887258	468.21	7.50	475.71
2	37.026641	-88.884763	449.31	7.50	456.81
3	37.025776	-88.884728	455.41	7.50	462.91
4	37.025767	-88.884822	455.51	7.50	463.01
5	37.024879	-88.884798	450.01	7.50	457.51
6	37.024836	-88.887928	458.50	7.50	466.00
7	37.025727	-88.887885	471.11	7.50	478.61
8	37.025727	-88.887432	468.38	7.50	475.88
9	37.026320	-88.887381	468.45	7.50	475.95
10	37.026311	-88.887279	468.43	7.50	475.93

Name: 212

Footprint area: 10.4 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024842	-88.887381	460.51	7.50	468.01
2	37.023960	-88.887397	460.65	7.50	468.15
3	37.023960	-88.887306	460.27	7.50	467.77
4	37.023133	-88.887311	463.53	7.50	471.03
5	37.023121	-88.884972	443.33	7.50	450.83
6	37.023990	-88.884972	449.09	7.50	456.59
7	37.023977	-88.884806	449.89	7.50	457.39
8	37.024877	-88.884806	450.18	7.50	457.68

Name: 213

Footprint area: 24.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029947	-88.882204	432.03	7.50	439.53
2	37.029934	-88.880933	421.04	7.50	428.54
3	37.029939	-88.880675	420.99	7.50	428.49
4	37.029005	-88.880654	421.83	7.50	429.33
5	37.028089	-88.880633	425.76	7.50	433.26
6	37.028110	-88.880241	422.63	7.50	430.13
7	37.027236	-88.880257	425.13	7.50	432.63
8	37.027258	-88.881325	439.20	7.50	446.70
9	37.026354	-88.881367	429.90	7.50	437.40
10	37.026367	-88.882151	437.75	7.50	445.25
11	37.025695	-88.882183	428.80	7.50	436.30
12	37.025695	-88.883143	439.54	7.50	447.04
13	37.025399	-88.883165	435.79	7.50	443.29
14	37.025416	-88.884093	448.93	7.50	456.43
15	37.026131	-88.884066	452.06	7.50	459.56
16	37.026136	-88.883964	451.39	7.50	458.89
17	37.028114	-88.883953	452.48	7.50	459.98
18	37.028119	-88.882322	445.84	7.50	453.34

Name: 214

Footprint area: 9.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

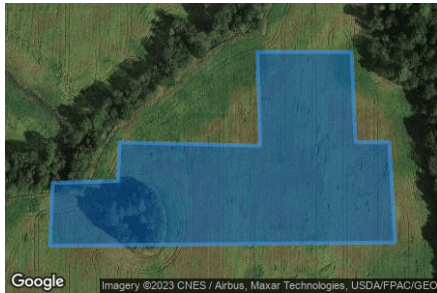
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024855	-88.882161	443.07	7.50	450.57
2	37.025412	-88.882135	436.26	7.50	443.76
3	37.025429	-88.881410	437.18	7.50	444.68
4	37.025772	-88.881389	430.47	7.50	437.97
5	37.025742	-88.879828	436.65	7.50	444.15
6	37.026572	-88.879860	426.32	7.50	433.82
7	37.026572	-88.878814	426.25	7.50	433.75
8	37.025772	-88.878771	429.51	7.50	437.01
9	37.025772	-88.878396	426.19	7.50	433.69
10	37.024885	-88.878331	429.53	7.50	437.03

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14
Description:
Threshold height : 50 ft
Direction: 142.6 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23
Description:
Threshold height : 50 ft
Direction: 224.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32
Description:
Threshold height : 50 ft
Direction: 323.3 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17

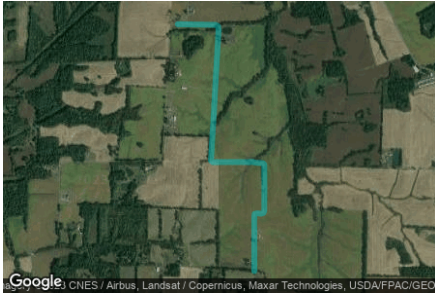


Route Receptor(s)

Name: Bondurant Road

Route type: Two-way

View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.030561	-88.887694	447.45	9.00	456.45
2	37.030514	-88.884336	433.31	9.00	442.31
3	37.030416	-88.884116	433.62	9.00	442.62
4	37.030125	-88.884073	431.70	9.00	440.70
5	37.027504	-88.884266	455.15	9.00	464.15
6	37.026167	-88.884363	451.34	9.00	460.34
7	37.024223	-88.884497	451.07	9.00	460.07
8	37.022763	-88.884615	448.20	9.00	457.20
9	37.021422	-88.884711	464.10	9.00	473.10
10	37.020942	-88.884744	466.66	9.00	475.66
11	37.020857	-88.884620	467.69	9.00	476.69
12	37.020844	-88.884524	468.62	9.00	477.62
13	37.020861	-88.882260	453.42	9.00	462.42
14	37.020844	-88.881391	448.56	9.00	457.56
15	37.020869	-88.881090	445.24	9.00	454.24
16	37.020810	-88.880731	444.21	9.00	453.21
17	37.020767	-88.880114	446.66	9.00	455.66
18	37.020681	-88.880018	446.23	9.00	455.23
19	37.019079	-88.880001	457.75	9.00	466.75
20	37.017400	-88.880018	470.81	9.00	479.81
21	37.017267	-88.880098	471.35	9.00	480.35
22	37.017220	-88.880296	473.26	9.00	482.26
23	37.017250	-88.880613	472.79	9.00	481.79
24	37.017203	-88.880870	474.27	9.00	483.27
25	37.017036	-88.880903	475.67	9.00	484.67
26	37.013177	-88.880897	477.52	9.00	486.52

Name: Buchanan Lane

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.013142	-88.880071	476.30	9.00	485.30
2	37.013207	-88.881541	476.30	9.00	485.30
3	37.013305	-88.883703	462.73	9.00	471.73
4	37.013421	-88.885586	445.94	9.00	454.94
5	37.013511	-88.887200	457.92	9.00	466.92
6	37.013567	-88.888719	444.71	9.00	453.71
7	37.013571	-88.890623	456.39	9.00	465.39
8	37.013541	-88.892034	456.70	9.00	465.70

9	37.013502	-88.893171	458.58	9.00	467.58
10	37.013519	-88.893611	452.79	9.00	461.79
11	37.013678	-88.894158	436.73	9.00	445.73
12	37.014530	-88.896062	407.34	9.00	416.34
13	37.014787	-88.896599	406.39	9.00	415.39
14	37.014873	-88.897103	408.73	9.00	417.73
15	37.014954	-88.898015	406.00	9.00	415.00
16	37.015036	-88.898257	408.12	9.00	417.12

Name: County Line Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.033389	-88.869601	432.04	9.00	441.04
2	37.032978	-88.869671	438.10	9.00	447.10
3	37.032425	-88.869494	445.45	9.00	454.45
4	37.031162	-88.868673	447.90	9.00	456.90
5	37.029230	-88.867439	459.23	9.00	468.23
6	37.027713	-88.866397	471.51	9.00	480.51
7	37.027422	-88.865839	467.59	9.00	476.59
8	37.027277	-88.865072	465.66	9.00	474.66
9	37.026921	-88.864160	467.57	9.00	476.57
10	37.026441	-88.863763	474.72	9.00	483.72
11	37.025829	-88.863688	474.78	9.00	483.78
12	37.023773	-88.863742	478.06	9.00	487.06
13	37.021786	-88.863753	477.68	9.00	486.68
14	37.019983	-88.863779	474.74	9.00	483.74
15	37.016882	-88.863801	461.36	9.00	470.36
16	37.013627	-88.863833	471.01	9.00	480.01

Name: Gage Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.015074	-88.898246	407.72	9.00	416.72
2	37.015267	-88.898160	410.58	9.00	419.58
3	37.017057	-88.898187	443.60	9.00	452.60
4	37.018308	-88.898106	448.37	9.00	457.37
5	37.019627	-88.898117	436.71	9.00	445.71
6	37.020338	-88.898112	446.63	9.00	455.63
7	37.020595	-88.897978	456.15	9.00	465.15
8	37.020728	-88.897666	459.19	9.00	468.19
9	37.020814	-88.890746	454.01	9.00	463.01
10	37.020848	-88.889754	455.16	9.00	464.16
11	37.020899	-88.889303	452.82	9.00	461.82
12	37.021238	-88.888939	455.41	9.00	464.41
13	37.022488	-88.888842	461.33	9.00	470.33
14	37.024934	-88.888676	469.78	9.00	478.78
15	37.026150	-88.888595	468.73	9.00	477.73
16	37.027713	-88.888477	453.57	9.00	462.57
17	37.029705	-88.888332	443.21	9.00	452.21
18	37.030210	-88.888236	446.62	9.00	455.62
19	37.030454	-88.888059	446.87	9.00	455.87
20	37.030566	-88.887780	448.49	9.00	457.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.021557	-88.893150	473.33	16.00	489.33
OP 3	37.020504	-88.890377	455.38	16.00	471.38
OP 4	37.021232	-88.895977	456.56	16.00	472.56
OP 5	37.023223	-88.888435	469.28	16.00	485.28
OP 6	37.023634	-88.888413	468.20	16.00	484.20
OP 7	37.026817	-88.888081	464.36	16.00	480.36
OP 8	37.027497	-88.887957	470.88	16.00	486.88
OP 9	37.028444	-88.887437	469.17	16.00	485.17
OP 10	37.029324	-88.883419	447.72	16.00	463.72
OP 11	37.031431	-88.886256	458.82	16.00	474.82
OP 12	37.033009	-88.886310	449.93	16.00	465.93
OP 13	37.009645	-88.880298	483.65	16.00	499.65
OP 14	37.011607	-88.880080	477.28	16.00	493.28
OP 15	37.011941	-88.880850	478.82	16.00	494.82
OP 16	37.013639	-88.881269	478.83	16.00	494.83
OP 17	37.012907	-88.883900	469.84	16.00	485.84
OP 18	37.012965	-88.884903	464.68	16.00	480.68
OP 19	37.013860	-88.887392	460.59	16.00	476.59
OP 20	37.018394	-88.897432	455.76	16.00	471.76
OP 21	37.020501	-88.899170	443.86	16.00	459.86
OP 22	37.021152	-88.869108	475.25	16.00	491.25
OP 23	37.020604	-88.864173	477.24	16.00	493.24
OP 24	37.019099	-88.863537	476.37	16.00	492.37
OP 25	37.017949	-88.864264	473.20	16.00	489.20

1-ATCT map image



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	
201	SA tracking	SA tracking	0	0	-	-
202	SA tracking	SA tracking	0	0	-	-
203	SA tracking	SA tracking	0	0	-	-
204	SA tracking	SA tracking	0	0	-	-
205	SA tracking	SA tracking	4,142	0	-	-
206	SA tracking	SA tracking	0	0	-	-
207	SA tracking	SA tracking	0	0	-	-
208	SA tracking	SA tracking	0	0	-	-
209	SA tracking	SA tracking	0	0	-	-
210	SA tracking	SA tracking	0	0	-	-
211	SA tracking	SA tracking	0	0	-	-
212	SA tracking	SA tracking	0	0	-	-
213	SA tracking	SA tracking	0	0	-	-
214	SA tracking	SA tracking	0	0	-	-

Distinct glare per month

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

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
205 (green)	845	0	0	0	0	0	0	0	0	0	541	937
205 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

201 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

205 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0

OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	1251	0
OP: OP 11	61	0
OP: OP 12	705	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	1926	0
Route: Buchanan Lane	0	0
Route: County Line Road	199	0
Route: Gage Road	0	0

205: Barkley Regional Airport Runway 14

No glare found

205: Barkley Regional Airport Runway 23

No glare found

205: Barkley Regional Airport Runway 32

No glare found

205: Barkley Regional Airport Runway 5

No glare found

205: 1-ATCT

No glare found

205: OP 2

No glare found

205: OP 3

No glare found

205: OP 4

No glare found

205: OP 5

No glare found

205: OP 6

No glare found

205: OP 7

No glare found

205: OP 8

No glare found

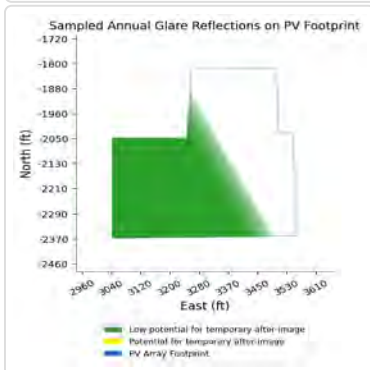
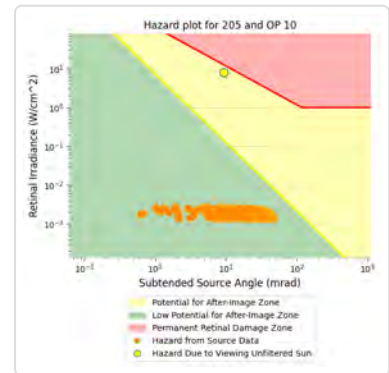
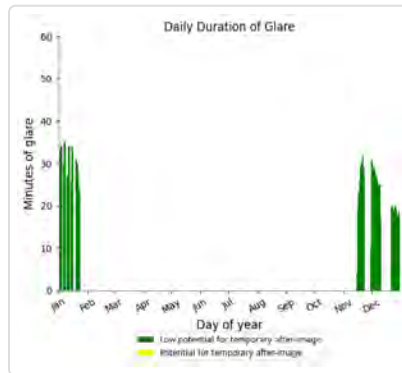
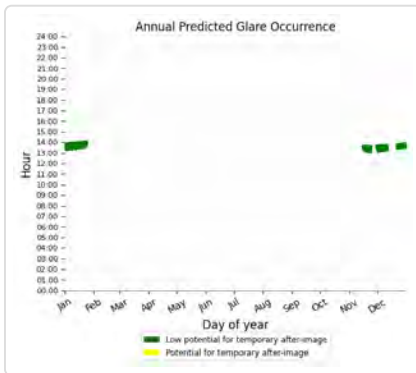
205: OP 9

No glare found

205: OP 10

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

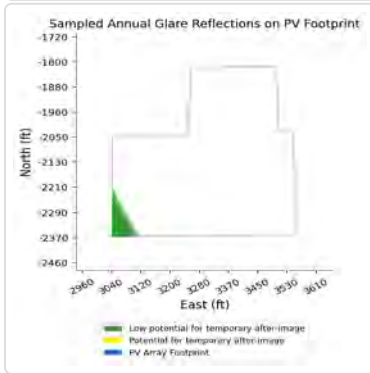
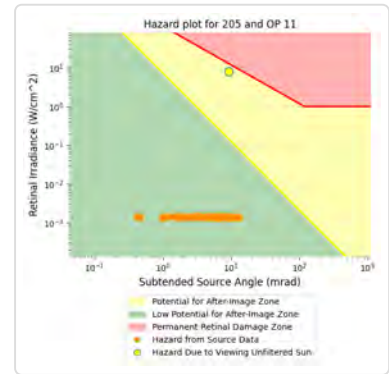
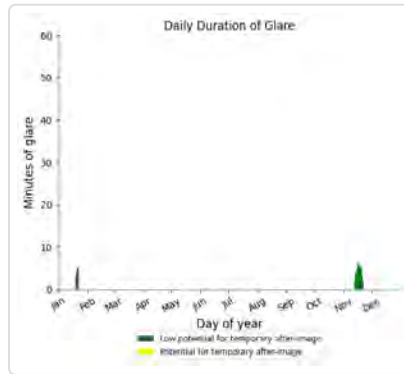
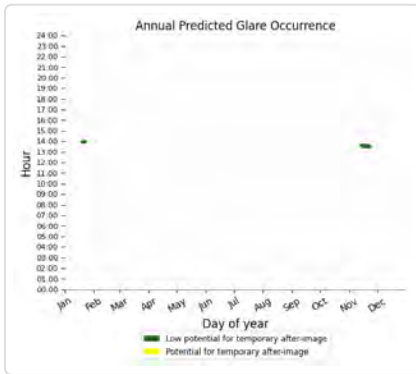
- 1,251 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 11

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

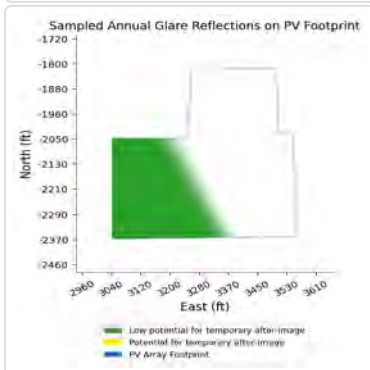
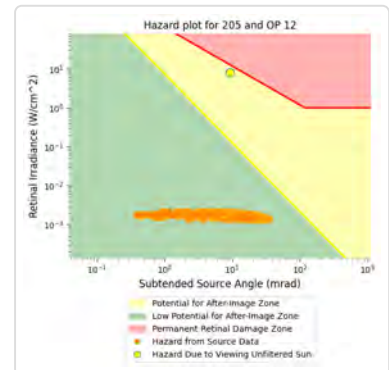
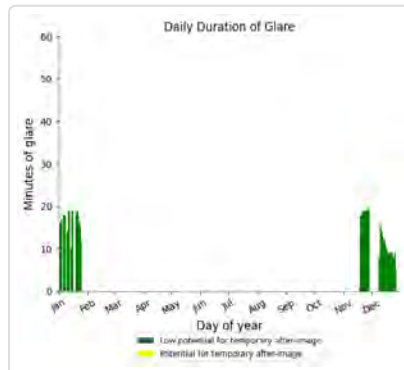
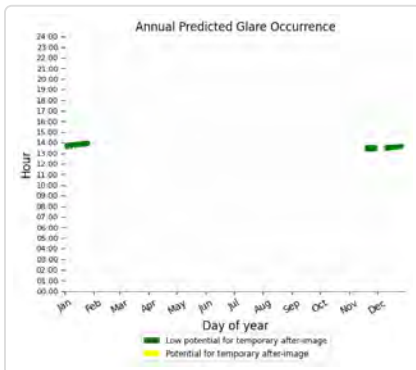
- 61 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



205: OP 12

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

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



205: OP 13

No glare found

205: OP 14

No glare found

205: OP 15

No glare found

205: OP 16

No glare found

205: OP 17

No glare found

205: OP 18

No glare found

205: OP 19

No glare found

205: OP 20

No glare found

205: OP 21

No glare found

205: OP 22

No glare found

205: OP 23

No glare found

205: OP 24

No glare found

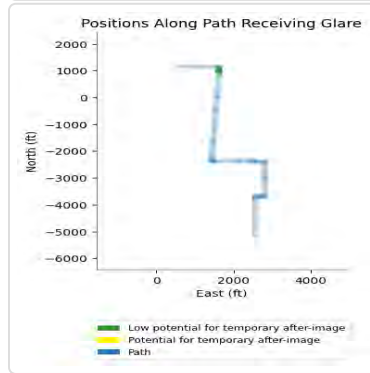
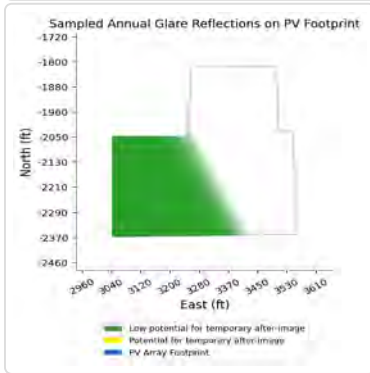
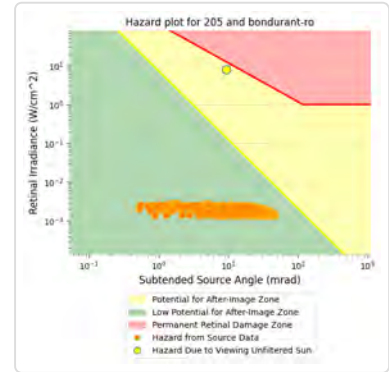
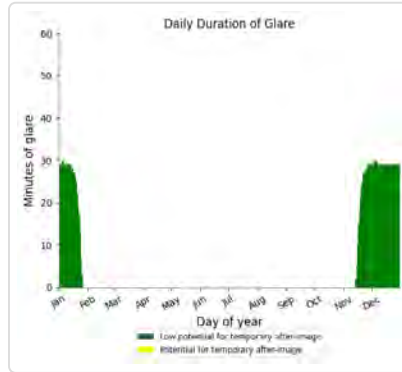
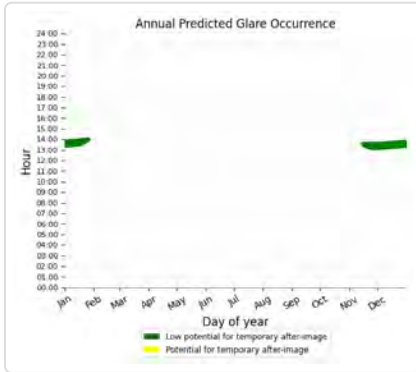
205: OP 25

No glare found

205: Bondurant Road

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

- 1,926 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



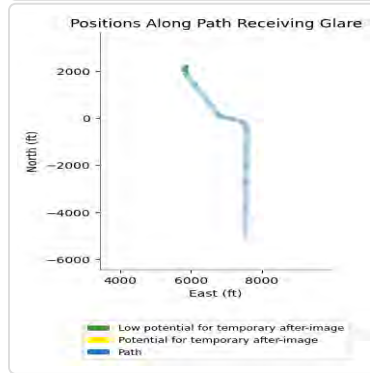
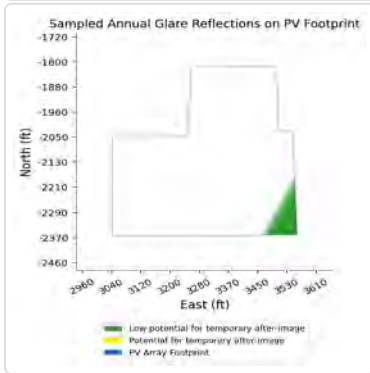
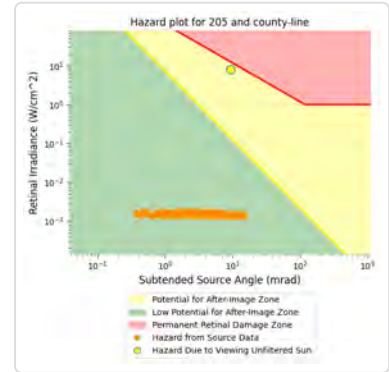
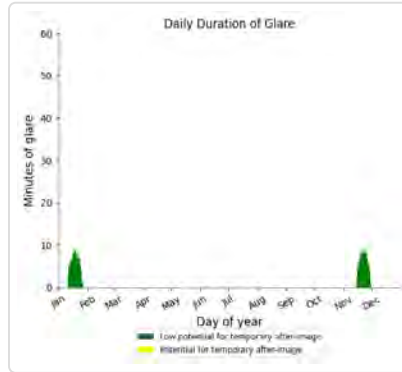
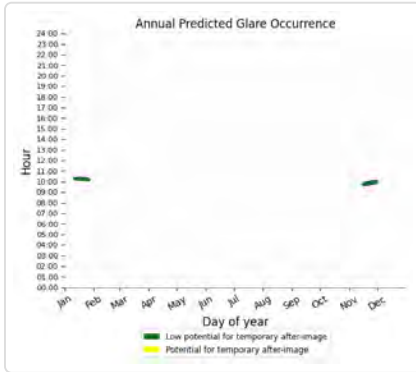
205: Buchanan Lane

No glare found

205: County Line Road

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

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



205: Gage Road

No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

209 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
Route: Bondurant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0
Route: Gage Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.

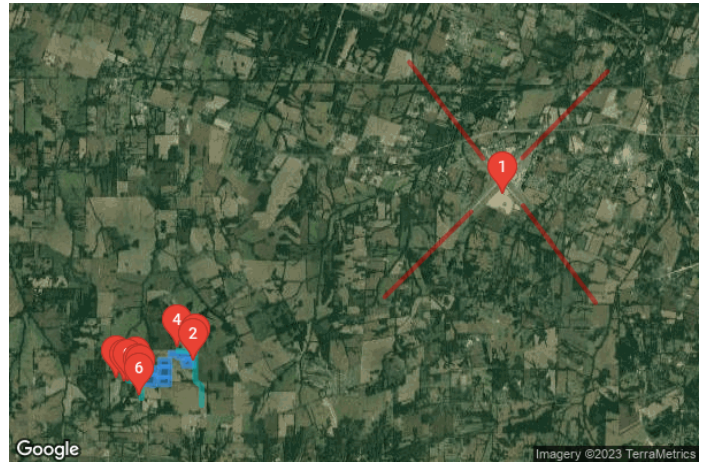
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 3 5ft vehicles 0 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 97988.17111

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



Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	3,357	417	-
302	SA tracking	SA tracking	2,321	275	-
303	SA tracking	SA tracking	3,802	267	-
304	SA tracking	SA tracking	2,858	1,538	-
305	SA tracking	SA tracking	157	126	-
306	SA tracking	SA tracking	4,317	469	-
307	SA tracking	SA tracking	5,403	502	-
308	SA tracking	SA tracking	428	0	-

Component Data

PV Array(s)

Total PV footprint area: 135.9 acres

Name: 301
Footprint area: 9.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 0.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018187	-88.877466	455.52	7.50	463.02
2	37.017240	-88.877439	457.96	7.50	465.46
3	37.017249	-88.877246	458.16	7.50	465.66
4	37.016478	-88.877241	464.21	7.50	471.71
5	37.016469	-88.879735	472.60	7.50	480.10
6	37.017292	-88.879735	467.89	7.50	475.39
7	37.017296	-88.879617	465.40	7.50	472.90
8	37.018182	-88.879612	465.20	7.50	472.70

Name: 302
Footprint area: 18.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 0.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016469	-88.879735	472.60	7.50	480.10
2	37.016482	-88.875401	442.92	7.50	450.42
3	37.015548	-88.875369	442.65	7.50	450.15
4	37.015544	-88.875666	444.06	7.50	451.56
5	37.014722	-88.875669	446.13	7.50	453.63
6	37.014741	-88.879751	473.41	7.50	480.91

Name: 303

Footprint area: 24.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014745	-88.879757	473.46	7.50	480.96
2	37.014715	-88.875669	446.13	7.50	453.63
3	37.012912	-88.875610	450.26	7.50	457.76
4	37.012895	-88.875744	451.80	7.50	459.30
5	37.011995	-88.875744	459.32	7.50	466.82
6	37.012004	-88.877032	468.12	7.50	475.62
7	37.012252	-88.877010	467.69	7.50	475.19
8	37.012299	-88.879537	471.96	7.50	479.46
9	37.012783	-88.879531	473.24	7.50	480.74
10	37.012779	-88.879317	470.24	7.50	477.74
11	37.013679	-88.879290	466.25	7.50	473.75
12	37.013674	-88.879773	472.44	7.50	479.94

Name: 304

Footprint area: 14.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018369	-88.874489	436.53	7.50	444.03
2	37.018394	-88.871292	440.66	7.50	448.16
3	37.017606	-88.871292	456.81	7.50	464.31
4	37.017606	-88.871200	456.89	7.50	464.39
5	37.016583	-88.871206	463.22	7.50	470.72
6	37.016587	-88.874467	442.04	7.50	449.54

Name: 305

Footprint area: 20.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016583	-88.871206	463.22	7.50	470.72
2	37.014017	-88.871270	469.80	7.50	477.30
3	37.014060	-88.874816	447.06	7.50	454.56
4	37.014916	-88.874811	448.26	7.50	455.76
5	37.014916	-88.874618	451.60	7.50	459.10
6	37.015795	-88.874628	442.20	7.50	449.70
7	37.015795	-88.874473	443.34	7.50	450.84
8	37.016583	-88.874467	442.06	7.50	449.56

Name: 306

Footprint area: 15.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

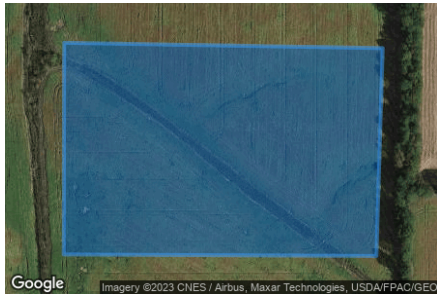
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014008	-88.871281	469.79	7.50	477.29
2	37.012179	-88.871351	462.33	7.50	469.83
3	37.012192	-88.874821	449.74	7.50	457.24
4	37.014056	-88.874816	447.06	7.50	454.56

Name: 307

Footprint area: 21.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.019144	-88.871490	438.71	7.50	446.21
2	37.020078	-88.871447	445.10	7.50	452.60
3	37.020069	-88.867714	462.10	7.50	469.60
4	37.019821	-88.867714	461.77	7.50	469.27
5	37.019825	-88.864414	472.93	7.50	480.43
6	37.018424	-88.864398	465.43	7.50	472.93
7	37.018442	-88.866592	452.03	7.50	459.53
8	37.018630	-88.866598	452.85	7.50	460.35
9	37.018639	-88.869285	443.10	7.50	450.60
10	37.019101	-88.869275	447.60	7.50	455.10

Name: 308

Footprint area: 12.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018437	-88.865047	461.43	7.50	468.93
2	37.017551	-88.865021	469.67	7.50	477.17
3	37.017534	-88.864119	465.31	7.50	472.81
4	37.016600	-88.864109	456.77	7.50	464.27
5	37.016583	-88.867392	446.71	7.50	454.21
6	37.017426	-88.867354	451.09	7.50	458.59
7	37.017426	-88.867762	447.21	7.50	454.71
8	37.018052	-88.867757	446.82	7.50	454.32
9	37.018030	-88.866764	457.33	7.50	464.83
10	37.018442	-88.866743	448.77	7.50	456.27

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Boulton Road
Route type: Two-way
View angle: 50.0 deg



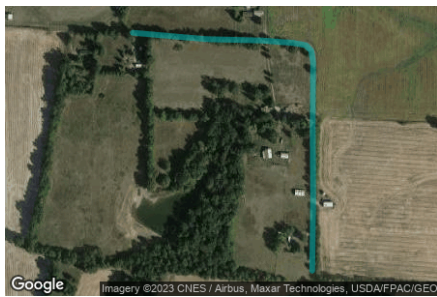
Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020283	-88.863792	476.00	5.00	481.00
2	37.020275	-88.865530	461.77	5.00	466.77
3	37.020343	-88.867837	460.38	5.00	465.38
4	37.020369	-88.868910	463.76	5.00	468.76

Name: Bourdant Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020823	-88.882682	456.44	5.00	461.44
2	37.020788	-88.880139	446.36	5.00	451.36
3	37.020643	-88.879978	446.27	5.00	451.27
4	37.020411	-88.880010	448.87	5.00	453.87
5	37.017388	-88.880032	470.88	5.00	475.88
6	37.017242	-88.880107	471.16	5.00	476.16
7	37.017225	-88.880214	472.38	5.00	477.38
8	37.017242	-88.880643	472.91	5.00	477.91
9	37.017156	-88.880890	474.80	5.00	479.80
10	37.017045	-88.880912	475.67	5.00	480.67
11	37.013190	-88.880901	477.29	5.00	482.29

Name: Buchanan Lane
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.013327	-88.883819	461.63	5.00	466.63
2	37.013216	-88.882210	471.96	5.00	476.96
3	37.013190	-88.880965	477.19	5.00	482.19
4	37.013147	-88.880257	475.69	5.00	480.69
5	37.013104	-88.879978	477.05	5.00	482.05
6	37.013010	-88.879860	475.50	5.00	480.50
7	37.012804	-88.879817	475.61	5.00	480.61
8	37.011699	-88.879828	476.77	5.00	481.77
9	37.010346	-88.879817	477.06	5.00	482.06
10	37.009112	-88.879839	465.43	5.00	470.43

Name: County Line Road

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022331	-88.863760	480.66	5.00	485.66
2	37.018887	-88.863792	470.16	5.00	475.16
3	37.016180	-88.863803	460.48	5.00	465.48
4	37.013747	-88.863867	471.42	5.00	476.42
5	37.013207	-88.863685	474.48	5.00	479.48
6	37.012719	-88.863030	469.97	5.00	474.97
7	37.012376	-88.862344	467.86	5.00	472.86
8	37.011965	-88.861882	468.79	5.00	473.79
9	37.011614	-88.861829	466.72	5.00	471.72
10	37.010586	-88.861818	471.69	5.00	476.69
11	37.007467	-88.861882	479.34	5.00	484.34

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.017953	-88.864287	473.68	16.00	489.68
OP 3	37.019105	-88.863536	476.70	16.00	492.70
OP 4	37.021135	-88.869099	475.47	16.00	491.47
OP 5	37.013648	-88.881298	478.37	16.00	494.37
OP 6	37.009647	-88.880273	483.41	16.00	499.41
OP 7	37.011618	-88.880112	477.91	16.00	493.91
OP 8	37.011956	-88.880853	478.71	16.00	494.71
OP 9	37.012890	-88.883905	470.20	16.00	486.20
OP 10	37.012946	-88.884870	465.73	16.00	481.73
OP 11	37.013879	-88.887424	460.77	16.00	476.77

1-ATCT map image



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	
301	SA tracking	SA tracking	3,357	417	-	-
302	SA tracking	SA tracking	2,321	275	-	-
303	SA tracking	SA tracking	3,802	267	-	-
304	SA tracking	SA tracking	2,858	1,538	-	-
305	SA tracking	SA tracking	157	126	-	-
306	SA tracking	SA tracking	4,317	469	-	-
307	SA tracking	SA tracking	5,403	502	-	-
308	SA tracking	SA tracking	428	0	-	-

Distinct glare per month

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

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
301 (green)	605	297	198	0	0	0	0	0	20	250	554	22
301 (yellow)	0	208	0	0	0	0	0	0	0	209	0	0
302 (green)	197	176	0	211	188	0	96	237	66	109	235	92
302 (yellow)	66	0	0	5	0	0	0	4	0	0	19	181
303 (green)	458	264	8	0	0	0	0	0	0	38	392	424
303 (yellow)	62	0	0	0	0	0	0	0	0	0	50	136
304 (green)	215	346	192	87	0	0	0	45	108	396	204	272
304 (yellow)	350	97	148	58	0	0	0	0	207	39	307	332
305 (green)	52	0	0	0	0	0	0	0	0	0	28	77
305 (yellow)	25	0	0	0	0	0	0	0	0	0	1	100
306 (green)	223	182	87	184	197	153	194	145	53	131	211	234
306 (yellow)	6	0	162	65	0	0	0	1	197	32	1	5
307 (green)	0	58	91	144	368	363	327	172	149	108	26	0
307 (yellow)	0	0	66	113	77	34	0	110	13	61	0	0
308 (green)	0	0	0	3	46	89	93	19	0	0	0	0
308 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

301 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	1228	0
FP: Barkley Regional Airport Runway 32	0	0

FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	157	0
OP: OP 2	0	0
OP: OP 3	85	0
OP: OP 4	650	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	1237	417
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

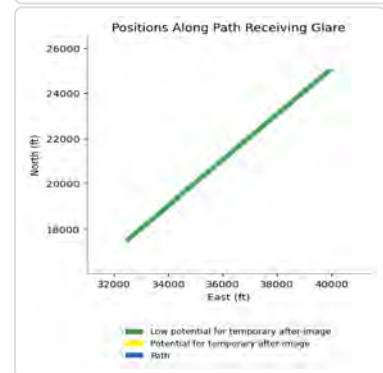
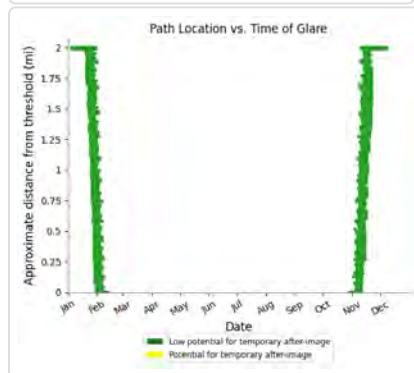
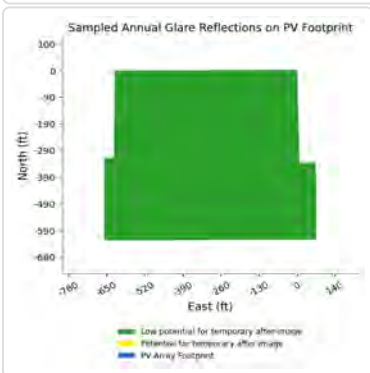
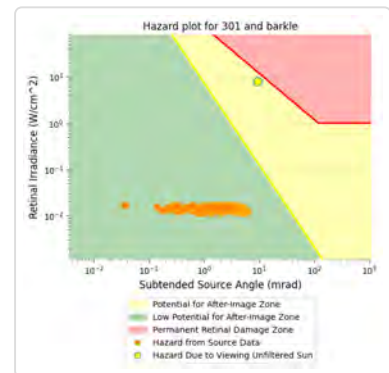
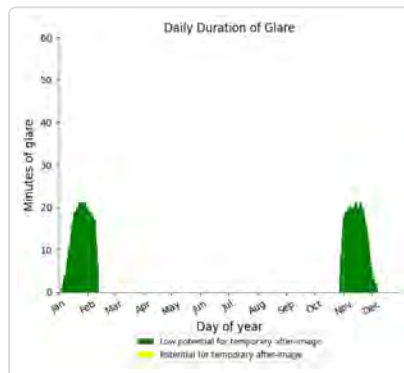
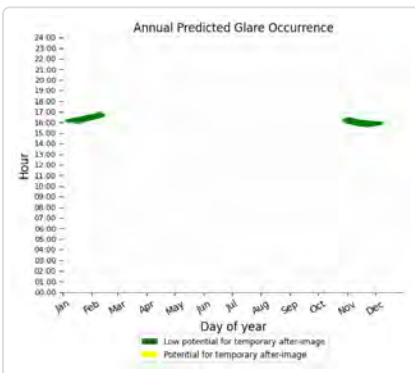
301: Barkley Regional Airport Runway 14

No glare found

301: Barkley Regional Airport Runway 23

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

- 1,228 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



301: Barkley Regional Airport Runway 32

No glare found

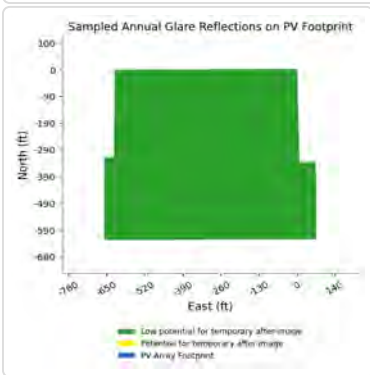
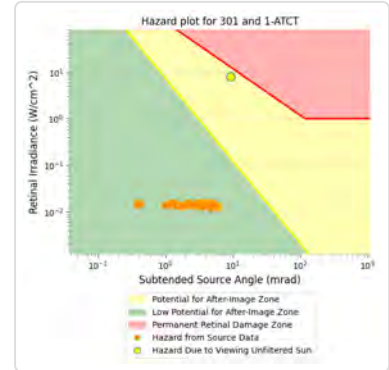
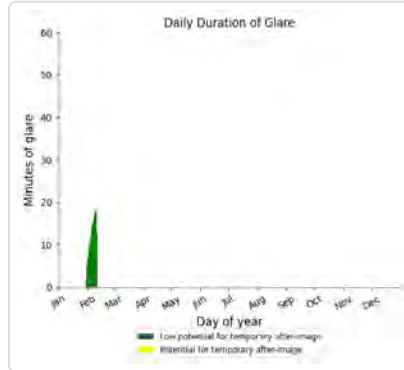
301: Barkley Regional Airport Runway 5

No glare found

301: 1-ATCT

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

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



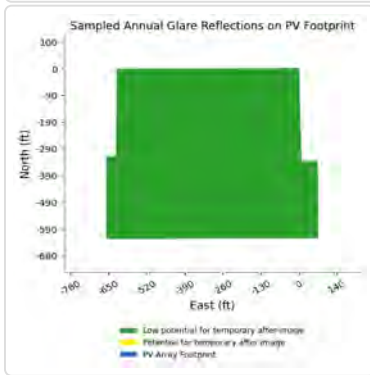
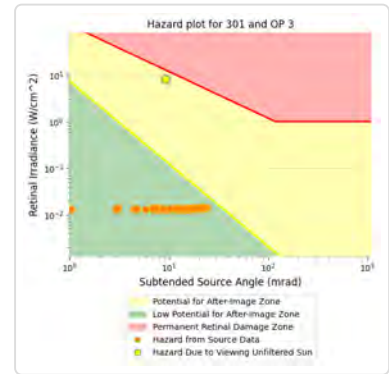
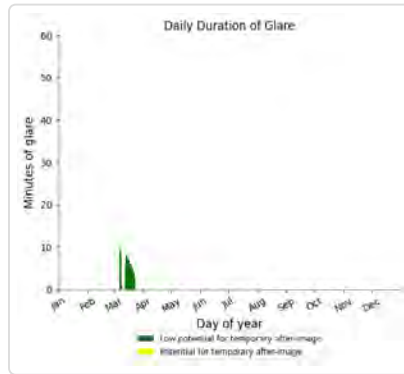
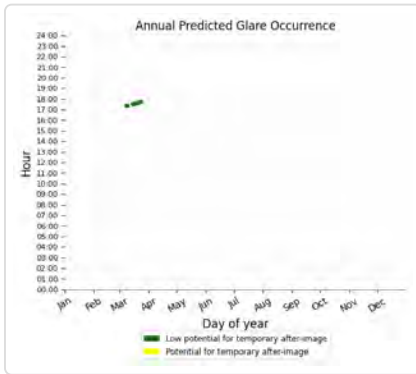
301: OP 2

No glare found

301: OP 3

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

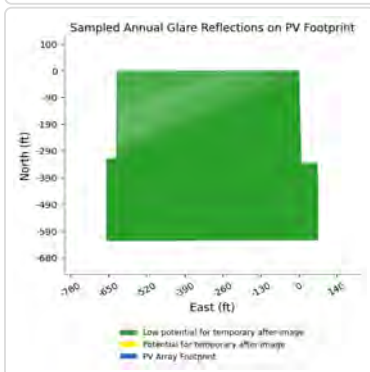
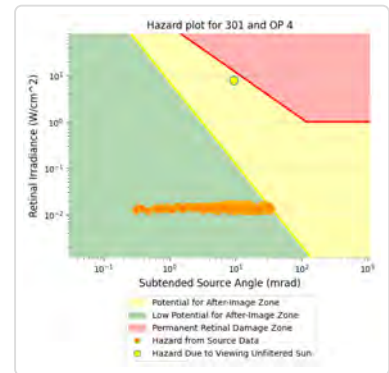
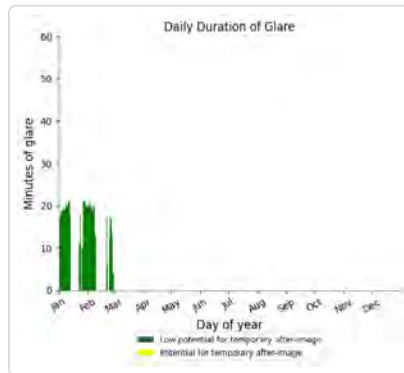
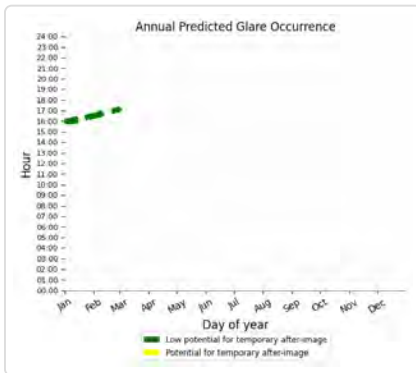
- 85 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



301: OP 4

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

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



301: OP 5

No glare found

301: OP 6

No glare found

301: OP 7

No glare found

301: OP 8

No glare found

301: OP 9

No glare found

301: OP 10

No glare found

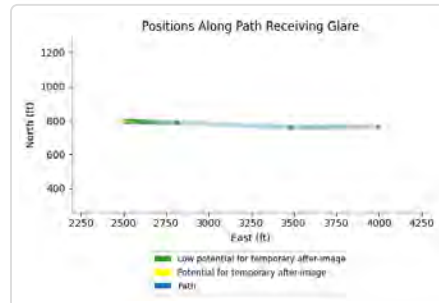
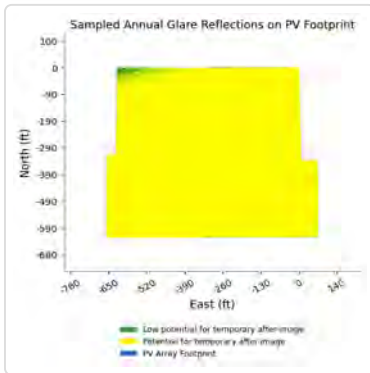
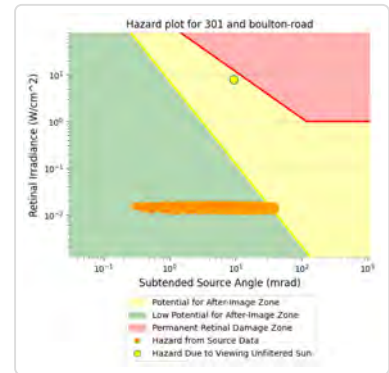
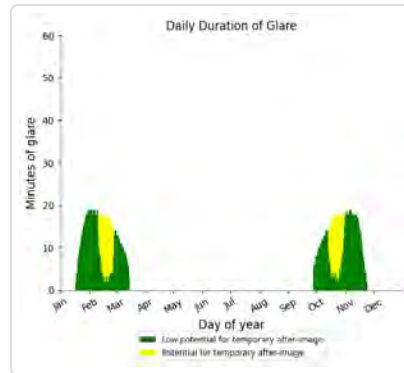
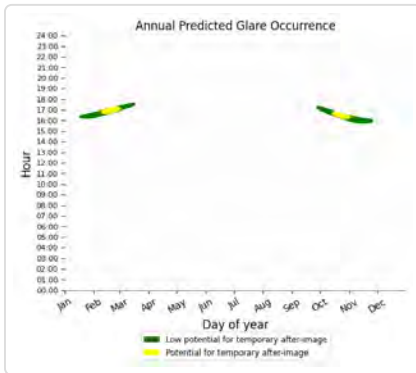
301: OP 11

No glare found

301: Boulton Road

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

- 1,237 minutes of "green" glare with low potential to cause temporary after-image.
- 417 minutes of "yellow" glare with potential to cause temporary after-image.



301: Bourdant Road

No glare found

301: Buchanan Lane

No glare found

301: County Line Road

No glare found

302 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	563	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	41	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	122	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	797	266
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	798	9

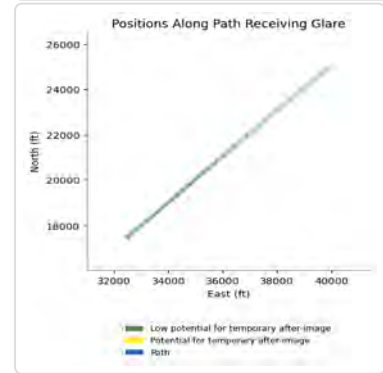
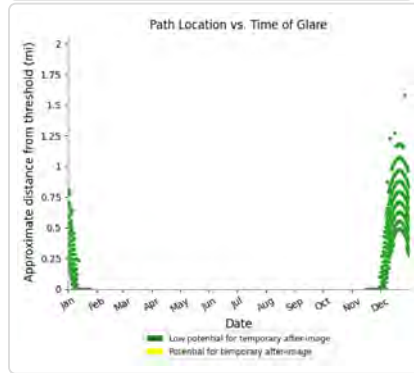
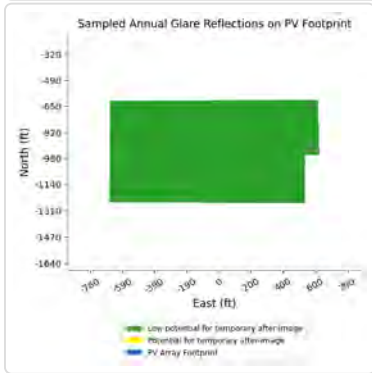
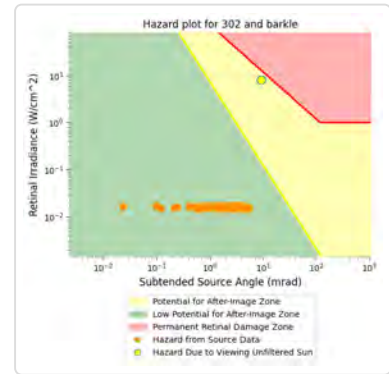
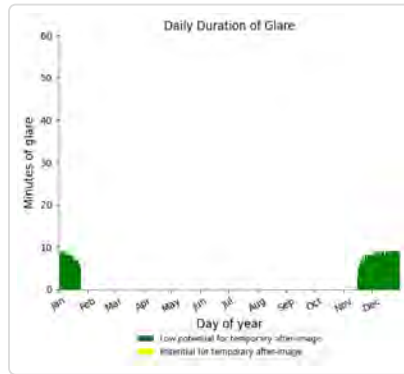
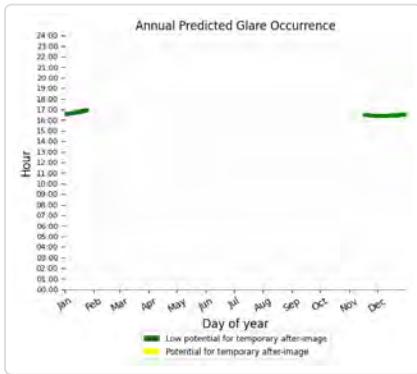
302: Barkley Regional Airport Runway 14

No glare found

302: Barkley Regional Airport Runway 23

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

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



302: Barkley Regional Airport Runway 32

No glare found

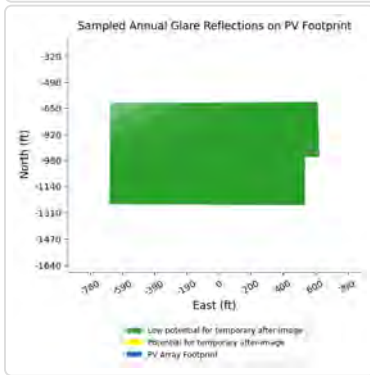
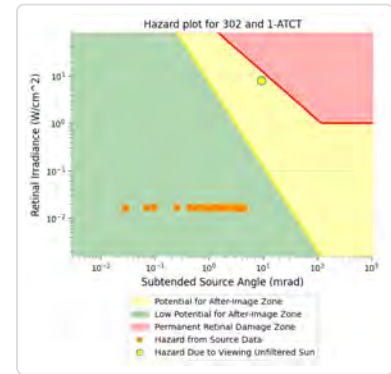
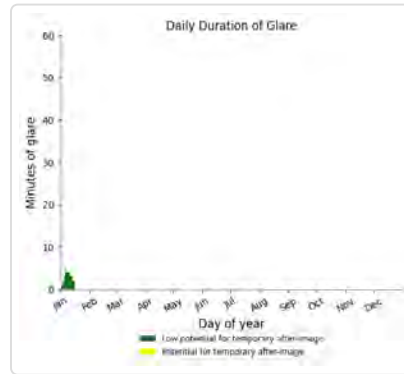
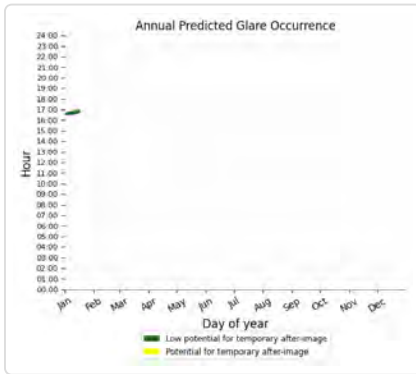
302: Barkley Regional Airport Runway 5

No glare found

302: 1-ATCT

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

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



302: OP 2

No glare found

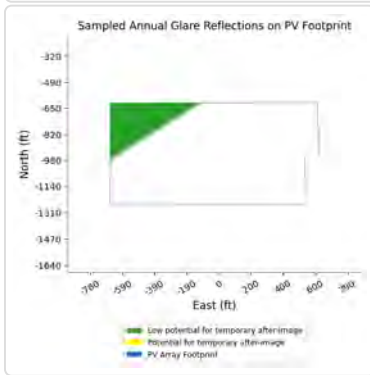
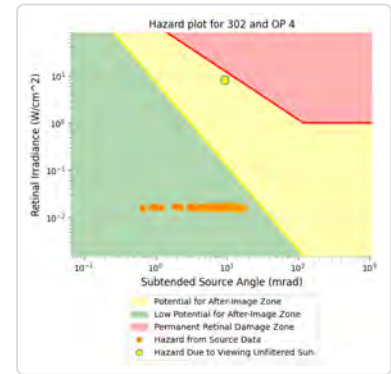
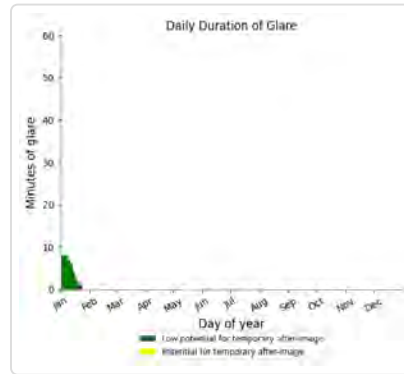
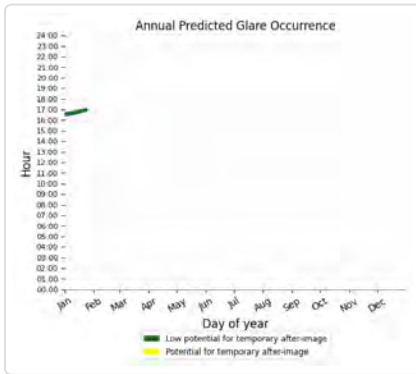
302: OP 3

No glare found

302: OP 4

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

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



302: OP 5

No glare found

302: OP 6

No glare found

302: OP 7

No glare found

302: OP 8

No glare found

302: OP 9

No glare found

302: OP 10

No glare found

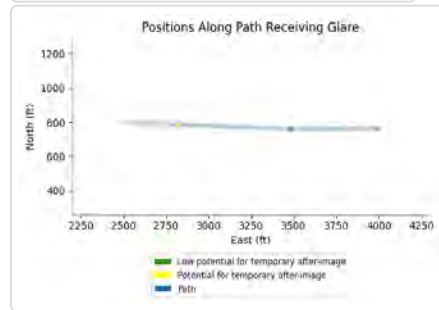
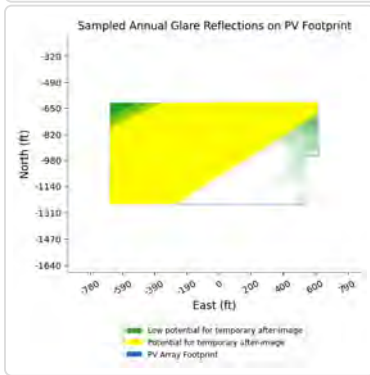
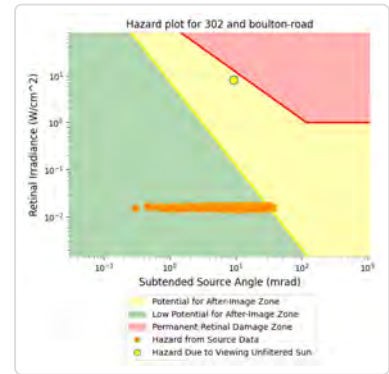
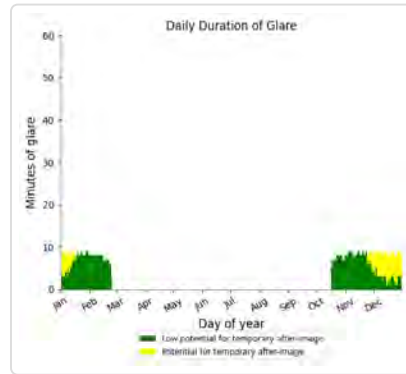
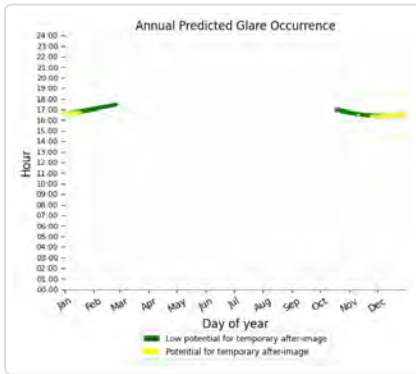
302: OP 11

No glare found

302: Boulton Road

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

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



302: Bourdant Road

No glare found

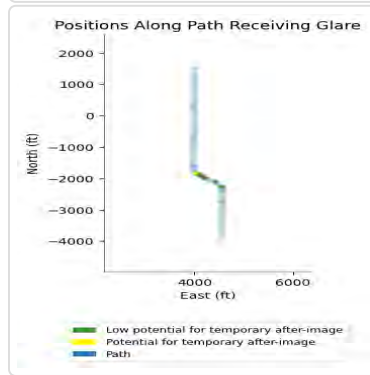
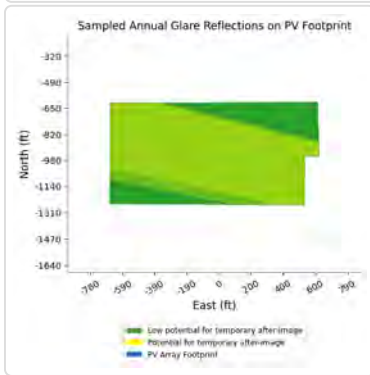
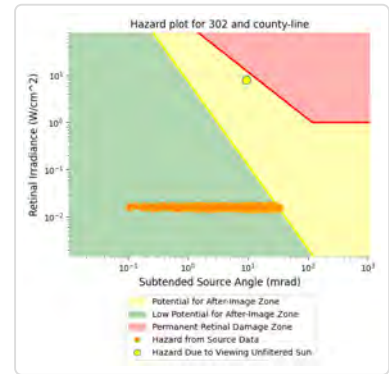
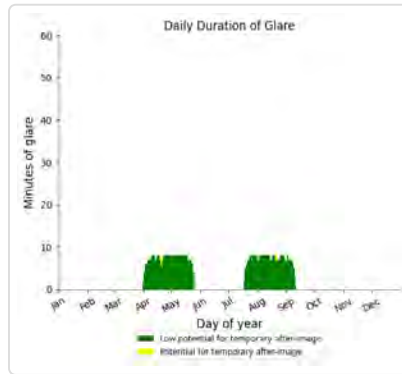
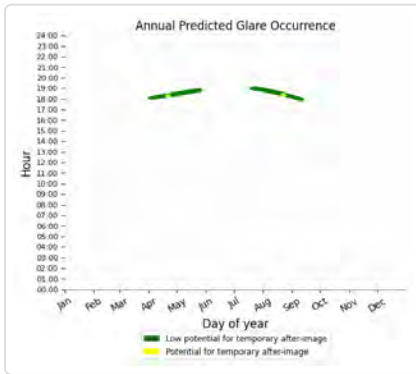
302: Buchanan Lane

No glare found

302: County Line Road

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

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



303 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	1306	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	402	0
OP: OP 3	456	0
OP: OP 4	118	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	1454	154
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	66	113

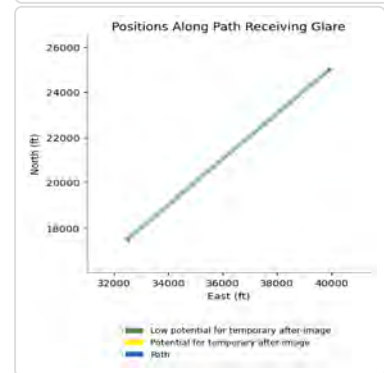
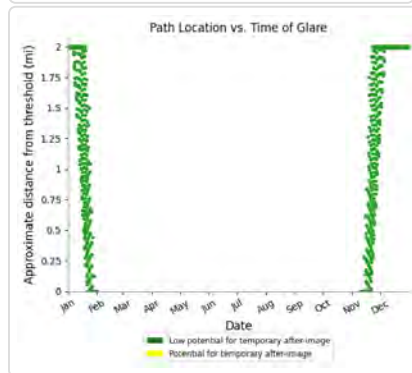
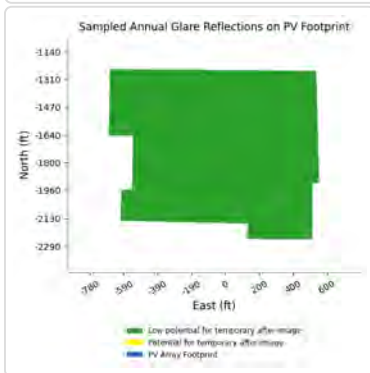
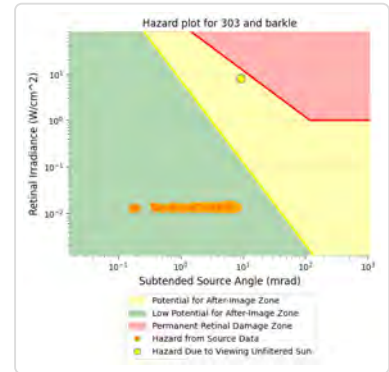
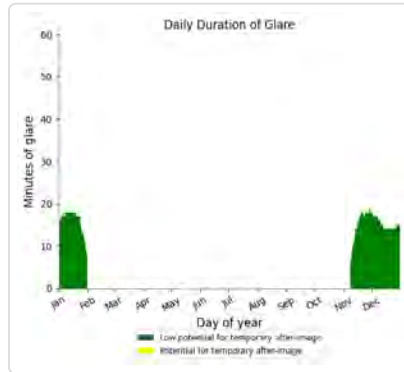
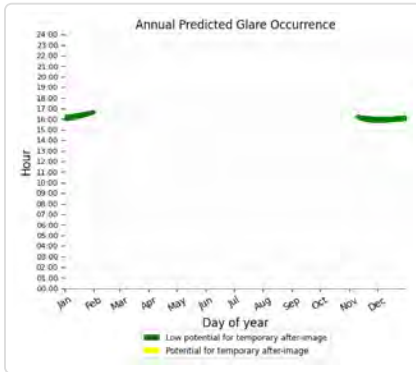
303: Barkley Regional Airport Runway 14

No glare found

303: Barkley Regional Airport Runway 23

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

- 1,306 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



303: Barkley Regional Airport Runway 32

No glare found

303: Barkley Regional Airport Runway 5

No glare found

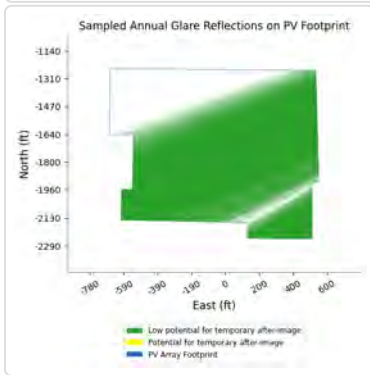
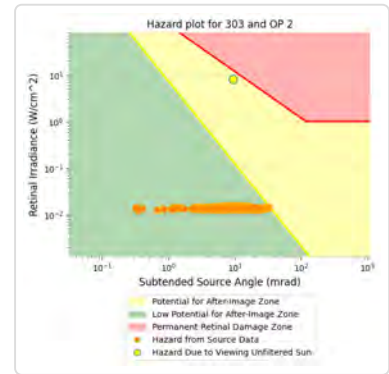
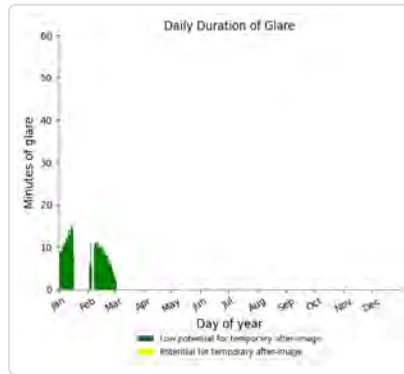
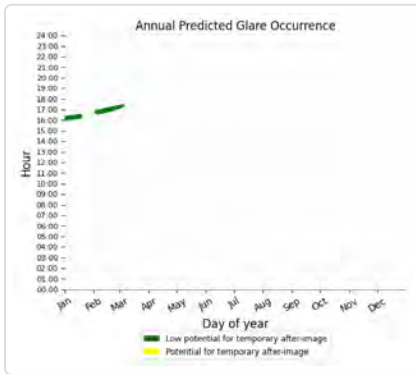
303: 1-ATCT

No glare found

303: OP 2

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

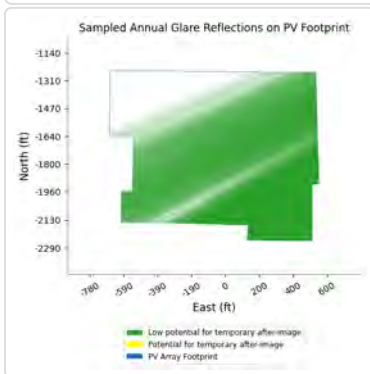
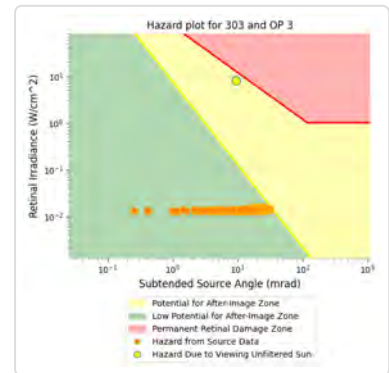
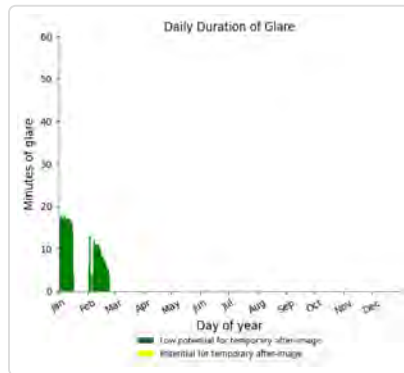
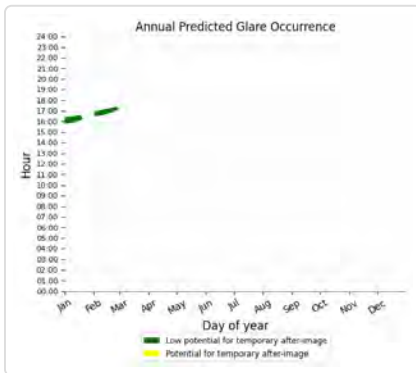
- 402 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



303: OP 3

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

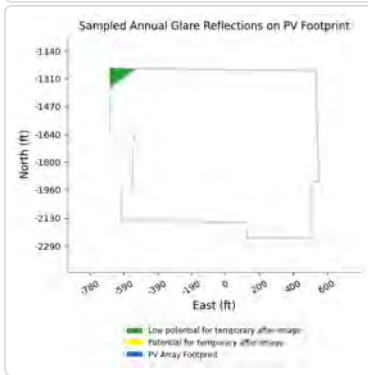
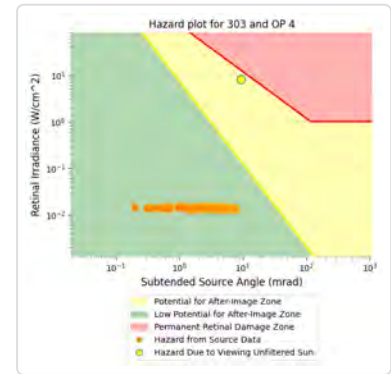
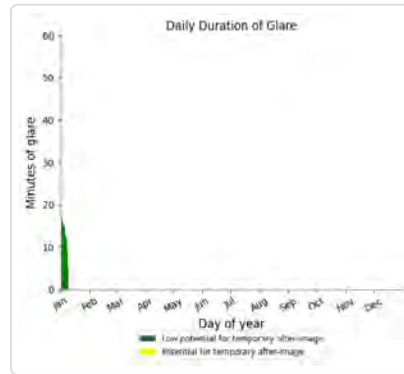
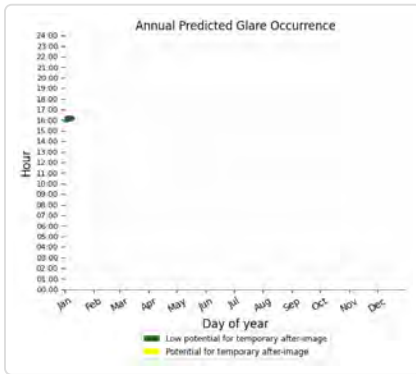
- 456 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



303: OP 4

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

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



303: OP 5

No glare found

303: OP 6

No glare found

303: OP 7

No glare found

303: OP 8

No glare found

303: OP 9

No glare found

303: OP 10

No glare found

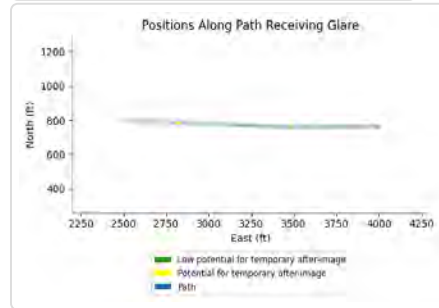
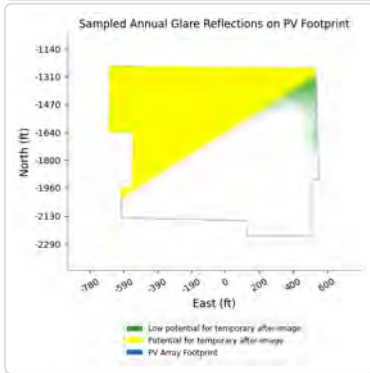
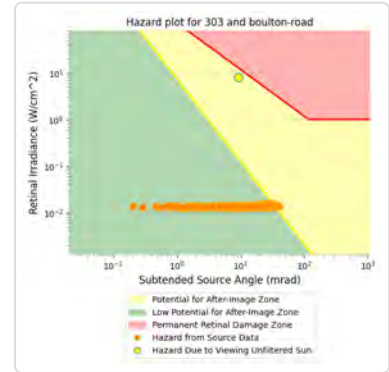
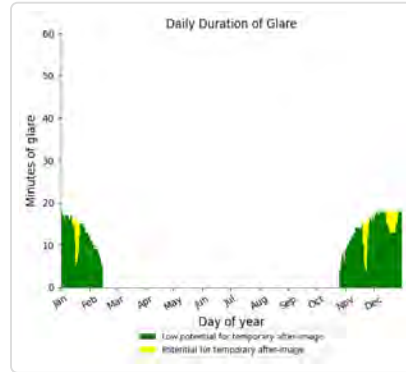
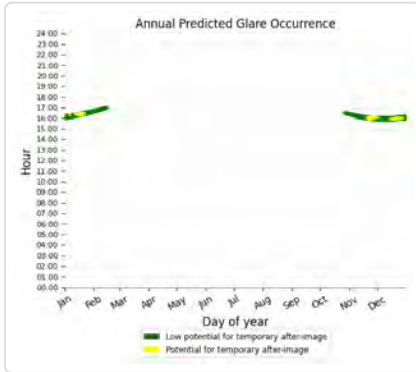
303: OP 11

No glare found

303: Boulton Road

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

- 1,454 minutes of "green" glare with low potential to cause temporary after-image.
- 154 minutes of "yellow" glare with potential to cause temporary after-image.



303: Bourdant Road

No glare found

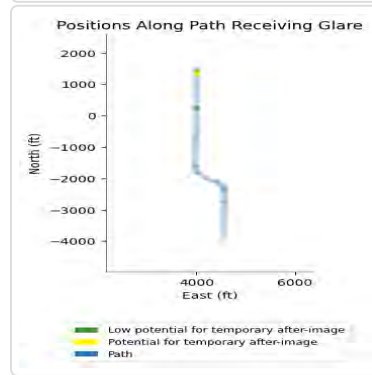
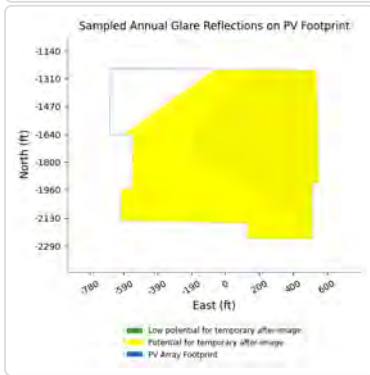
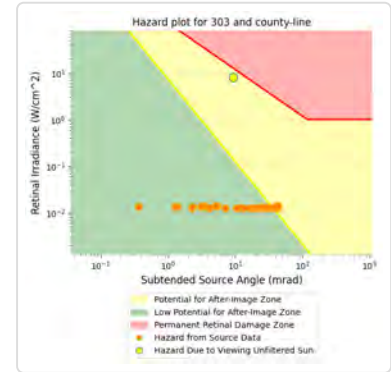
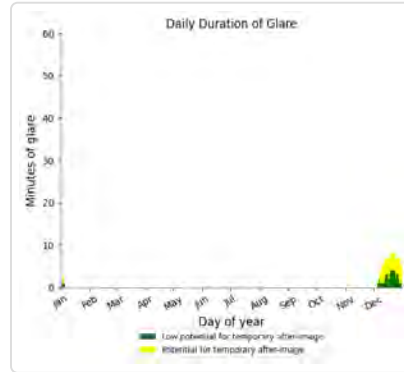
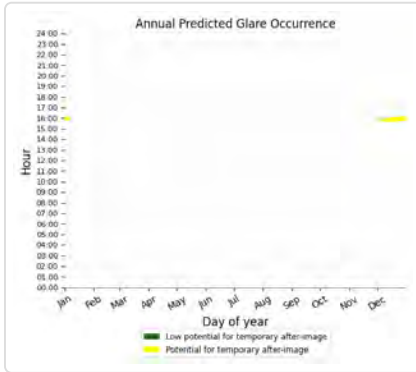
303: Buchanan Lane

No glare found

303: County Line Road

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

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



304 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	562	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	57	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	409	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	447	596
Route: Bourdant Road	1383	942
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

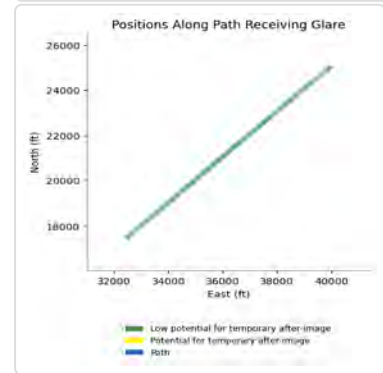
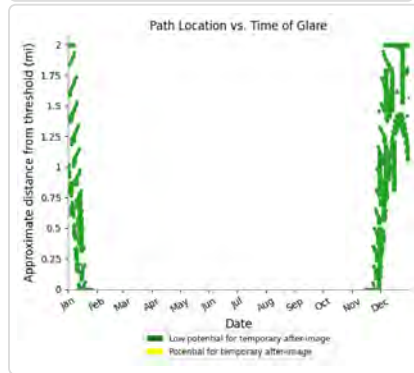
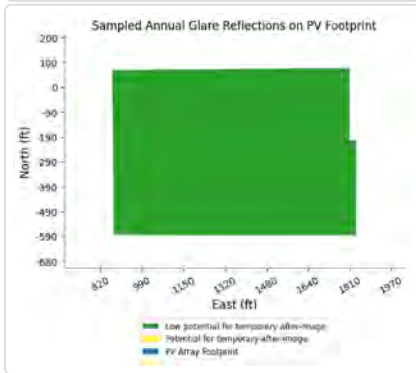
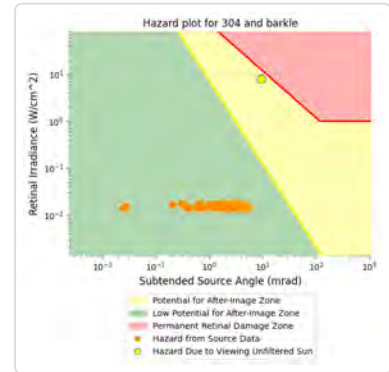
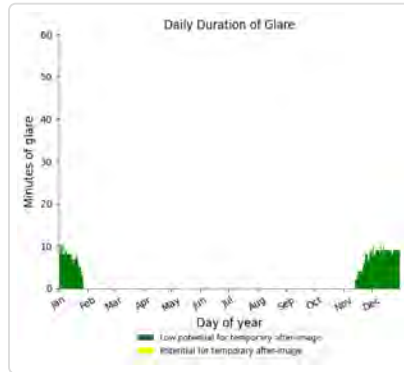
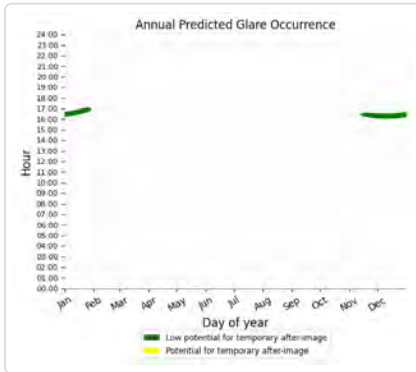
304: Barkley Regional Airport Runway 14

No glare found

304: Barkley Regional Airport Runway 23

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

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



304: Barkley Regional Airport Runway 32

No glare found

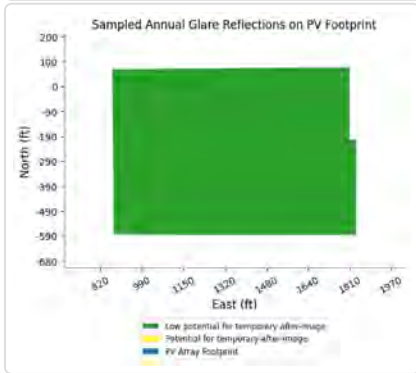
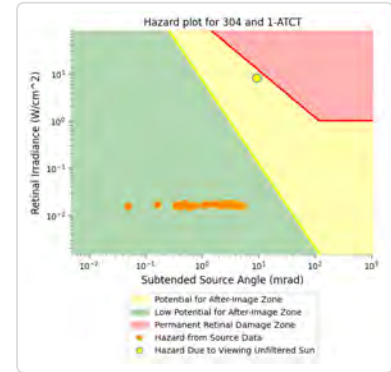
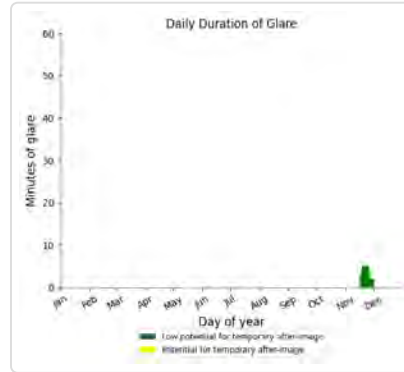
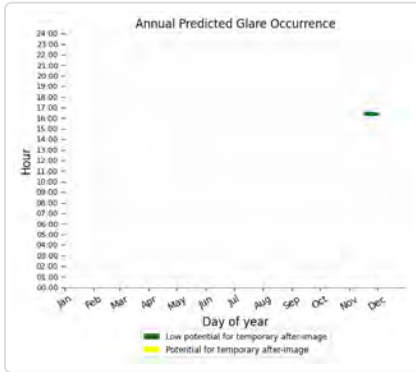
304: Barkley Regional Airport Runway 5

No glare found

304: 1-ATCT

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

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



304: OP 2

No glare found

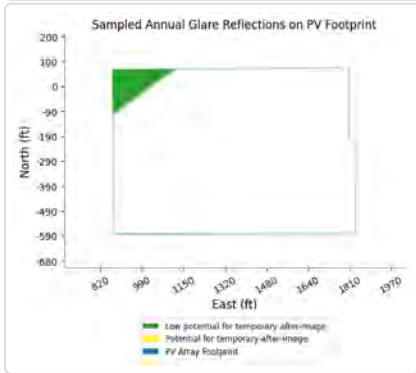
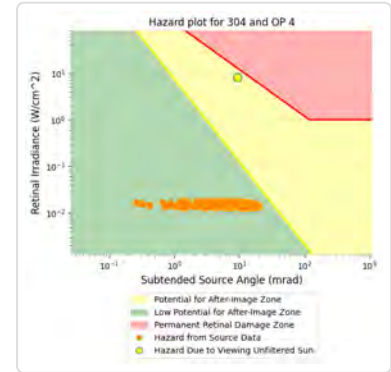
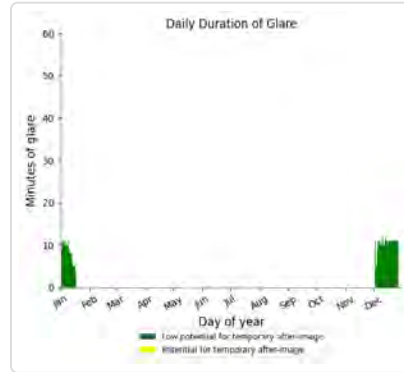
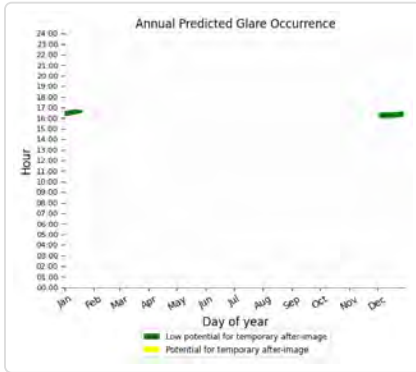
304: OP 3

No glare found

304: OP 4

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

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



304: OP 5

No glare found

304: OP 6

No glare found

304: OP 7

No glare found

304: OP 8

No glare found

304: OP 9

No glare found

304: OP 10

No glare found

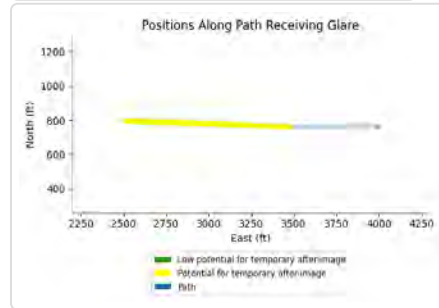
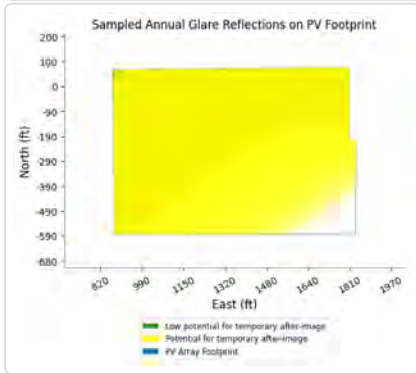
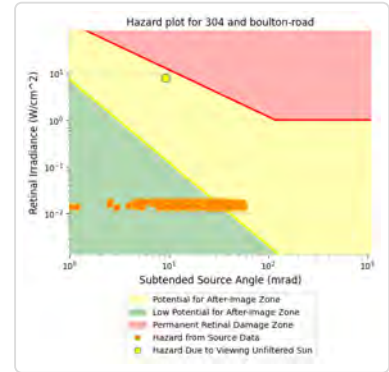
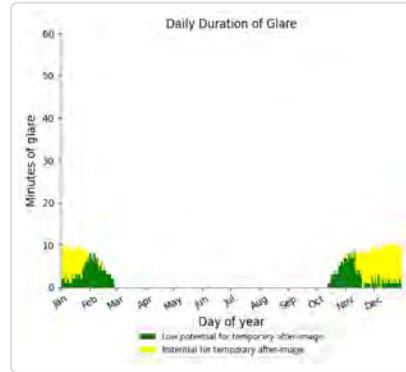
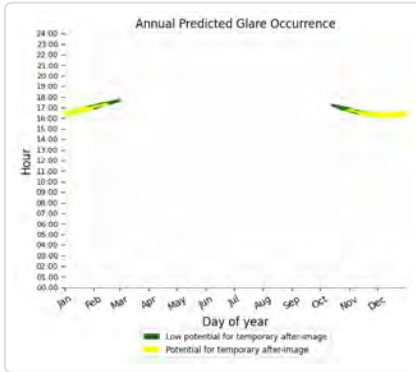
304: OP 11

No glare found

304: Boulton Road

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

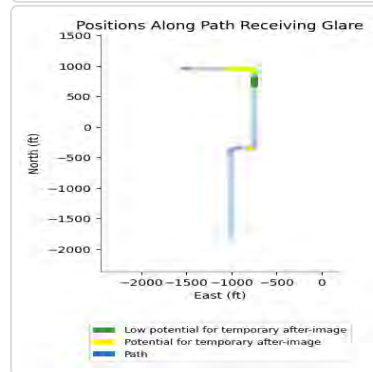
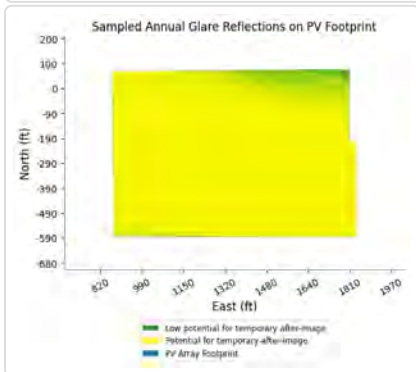
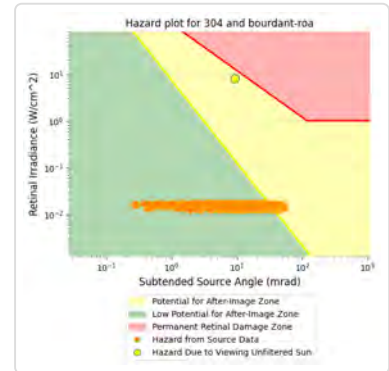
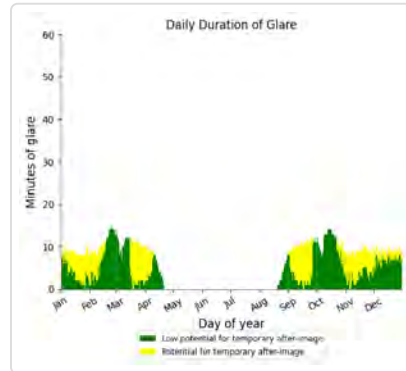
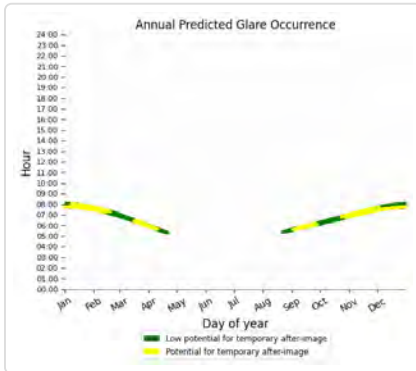
- 447 minutes of "green" glare with low potential to cause temporary after-image.
- 596 minutes of "yellow" glare with potential to cause temporary after-image.



304: Bourdant Road

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

- 1,383 minutes of "green" glare with low potential to cause temporary after-image.
- 942 minutes of "yellow" glare with potential to cause temporary after-image.



304: Buchanan Lane

No glare found

304: County Line Road

No glare found

305 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	157	126
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

305: Barkley Regional Airport Runway 14

No glare found

305: Barkley Regional Airport Runway 23

No glare found

305: Barkley Regional Airport Runway 32

No glare found

305: Barkley Regional Airport Runway 5

No glare found

305: 1-ATCT

No glare found

305: OP 2

No glare found

305: OP 3

No glare found

305: OP 4

No glare found

305: OP 5

No glare found

305: OP 6

No glare found

305: OP 7

No glare found

305: OP 8

No glare found

305: OP 9

No glare found

305: OP 10

No glare found

305: OP 11

No glare found

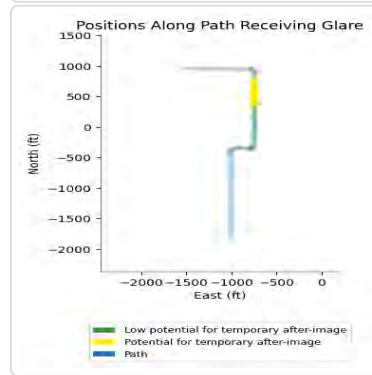
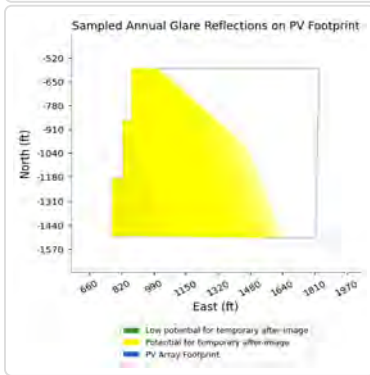
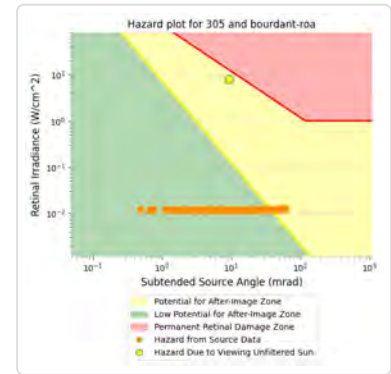
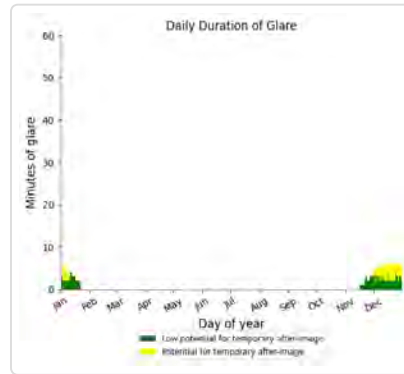
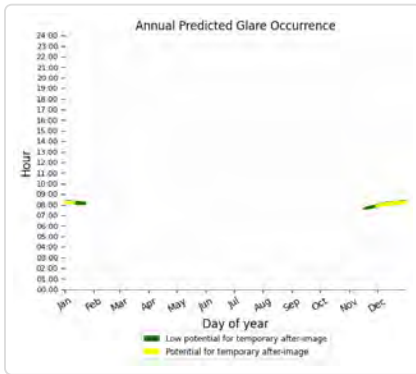
305: Boulton Road

No glare found

305: Bourdant Road

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

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



305: Buchanan Lane

No glare found

305: County Line Road

No glare found

306 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	552	0
OP: OP 6	458	0
OP: OP 7	803	0
OP: OP 8	590	0
OP: OP 9	227	0
OP: OP 10	180	0
OP: OP 11	206	0

Route: Boulton Road	0	0
Route: Bourdant Road	740	12
Route: Buchanan Lane	561	457
Route: County Line Road	0	0

306: Barkley Regional Airport Runway 14

No glare found

306: Barkley Regional Airport Runway 23

No glare found

306: Barkley Regional Airport Runway 32

No glare found

306: Barkley Regional Airport Runway 5

No glare found

306: 1-ATCT

No glare found

306: OP 2

No glare found

306: OP 3

No glare found

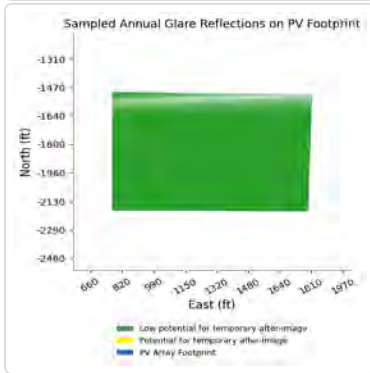
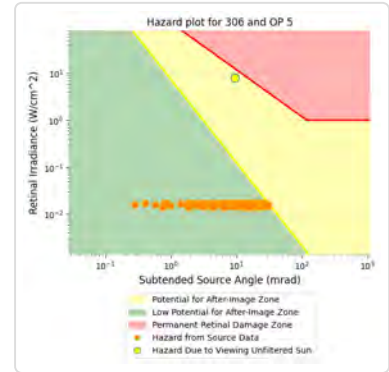
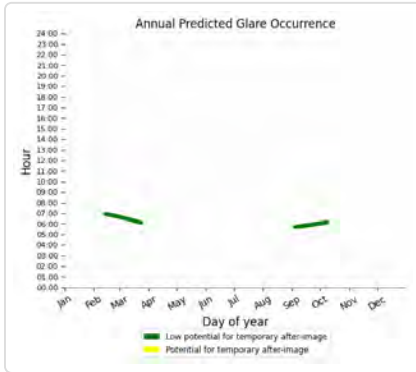
306: OP 4

No glare found

306: OP 5

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

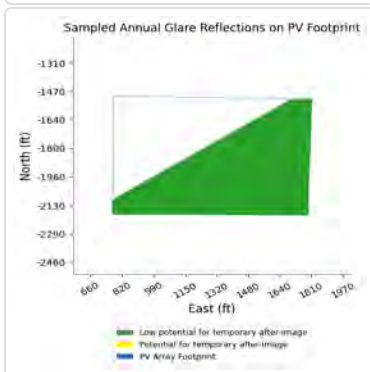
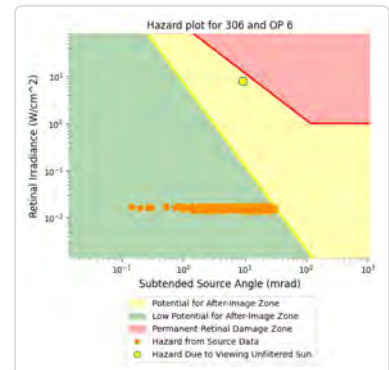
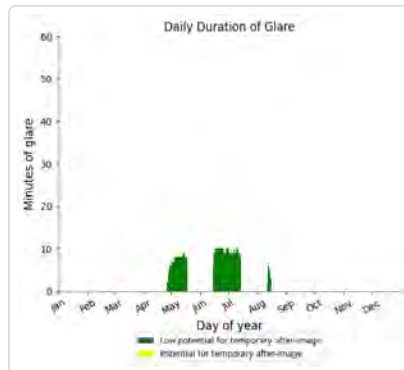
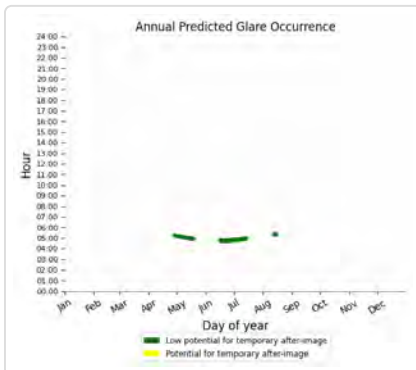
- 552 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 6

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

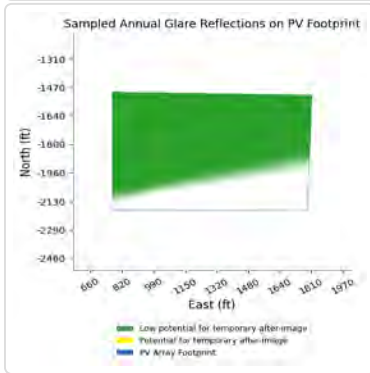
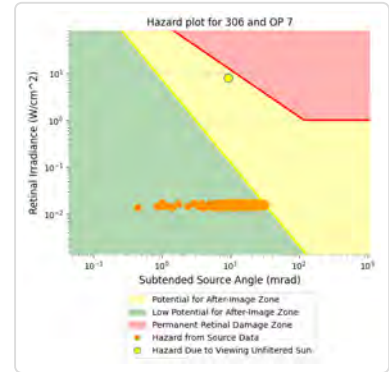
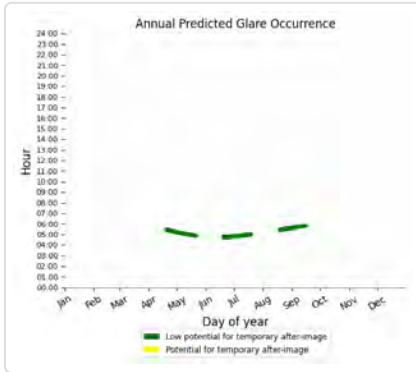
- 458 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 7

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

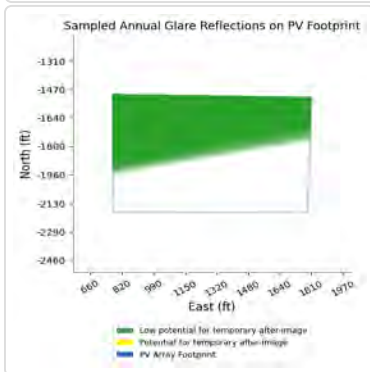
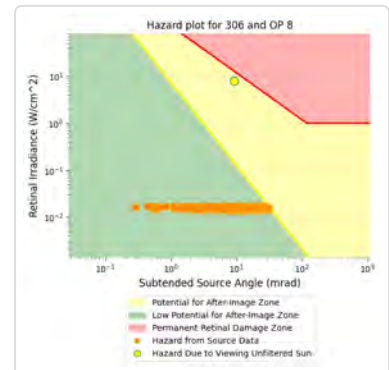
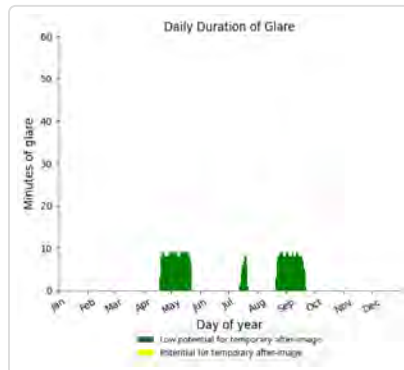
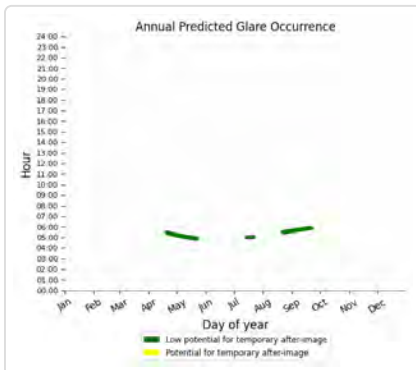
- 803 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 8

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

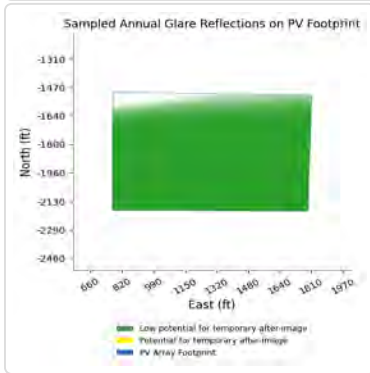
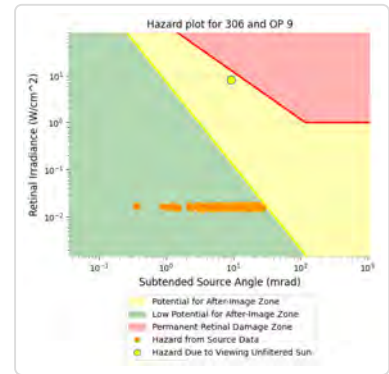
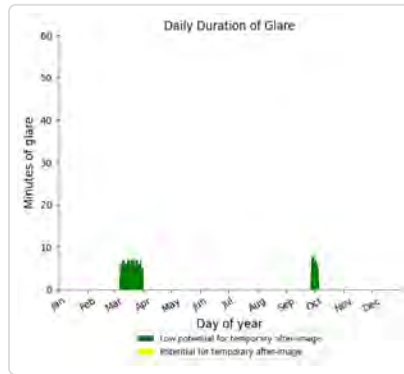
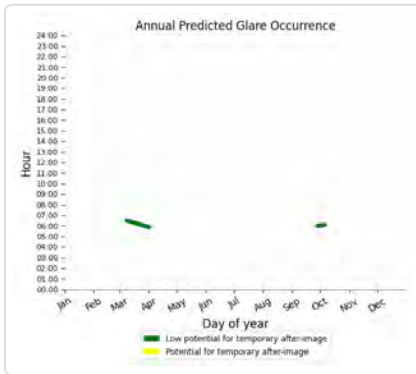
- 590 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 9

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

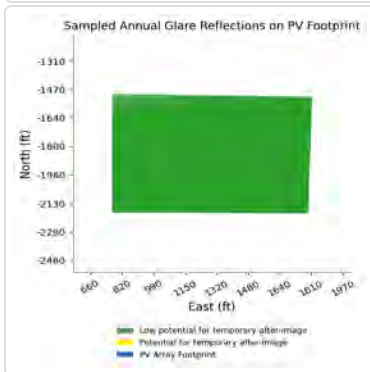
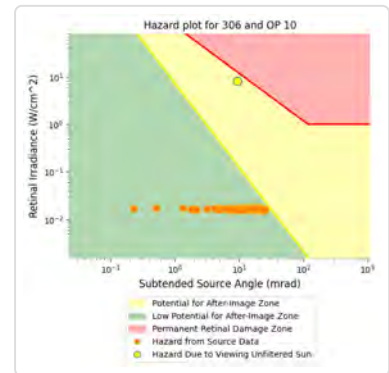
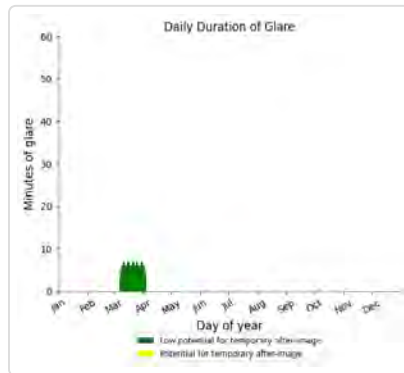
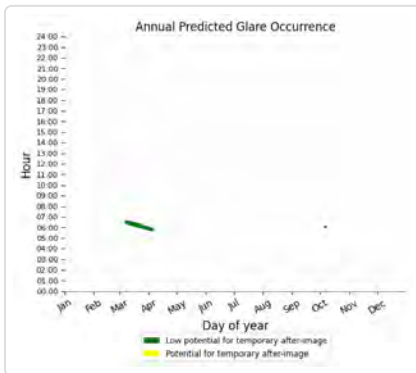
- 227 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 10

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

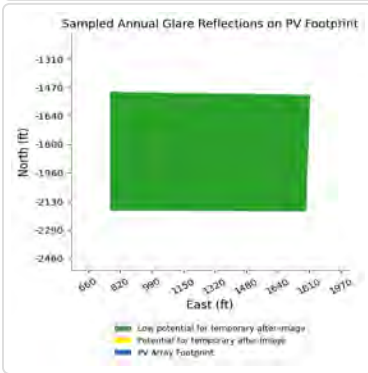
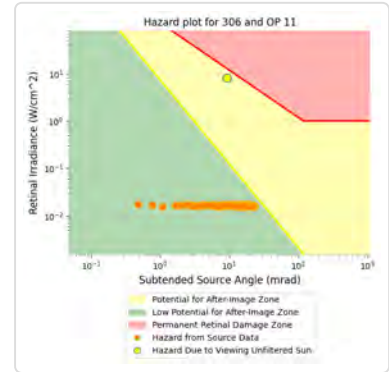
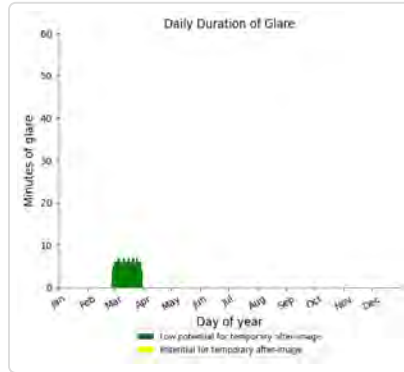
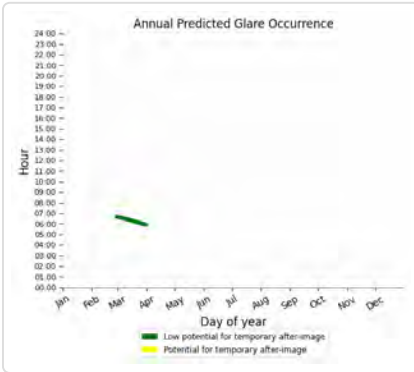
- 180 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 11

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

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



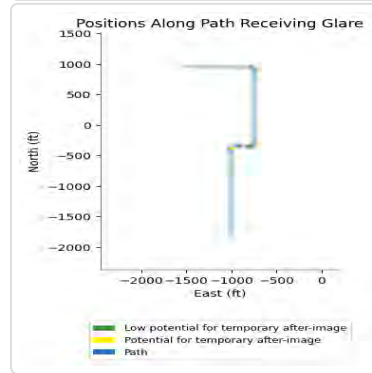
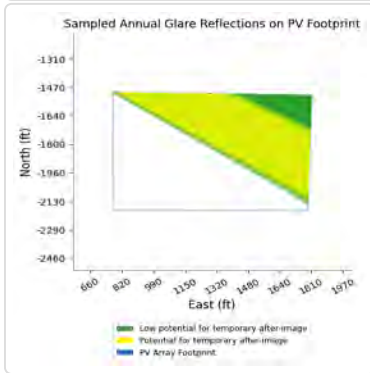
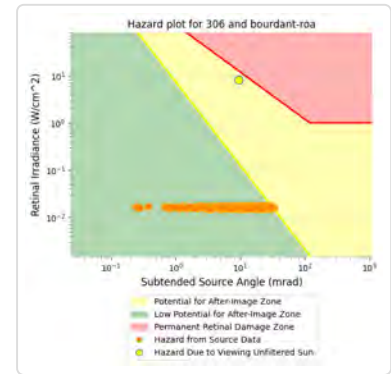
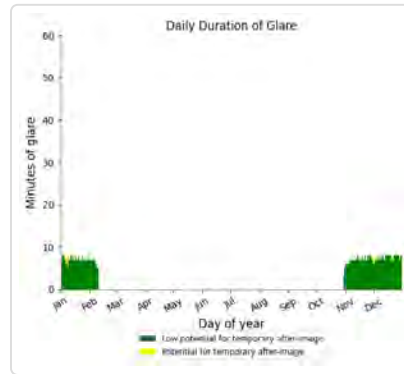
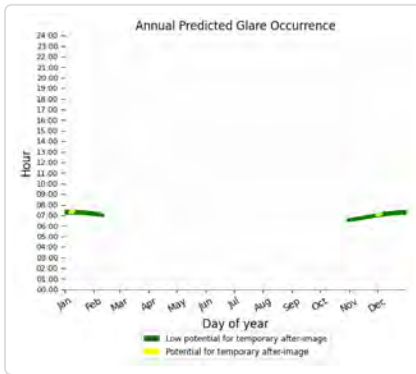
306: Boulton Road

No glare found

306: Bourdant Road

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

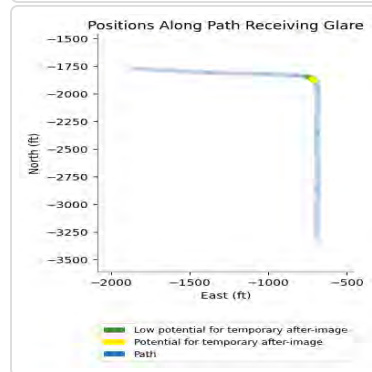
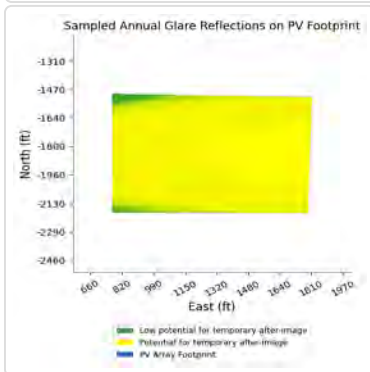
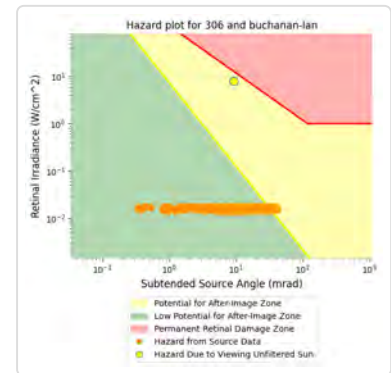
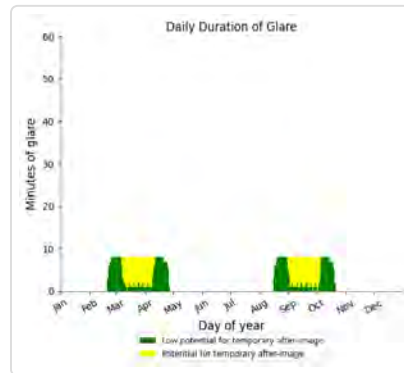
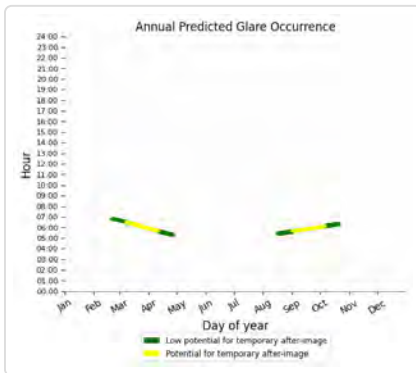
- 740 minutes of "green" glare with low potential to cause temporary after-image.
- 12 minutes of "yellow" glare with potential to cause temporary after-image.



306: Buchanan Lane

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

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



306: County Line Road

No glare found

307 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	90	110
OP: OP 3	0	0
OP: OP 4	58	0
OP: OP 5	573	0
OP: OP 6	0	0
OP: OP 7	230	0
OP: OP 8	319	0
OP: OP 9	567	0
OP: OP 10	592	0
OP: OP 11	731	0
Route: Boulton Road	0	0
Route: Bourdant Road	1134	392
Route: Buchanan Lane	1109	0
Route: County Line Road	0	0

307: Barkley Regional Airport Runway 14

No glare found

307: Barkley Regional Airport Runway 23

No glare found

307: Barkley Regional Airport Runway 32

No glare found

307: Barkley Regional Airport Runway 5

No glare found

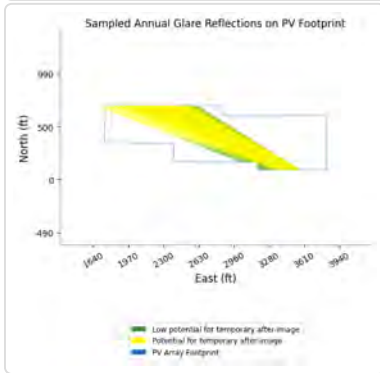
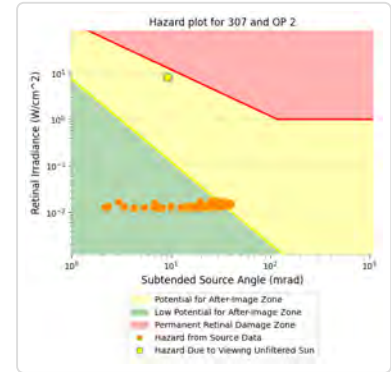
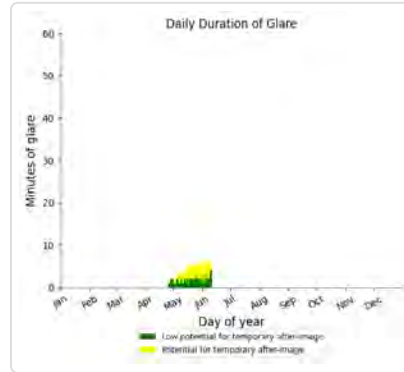
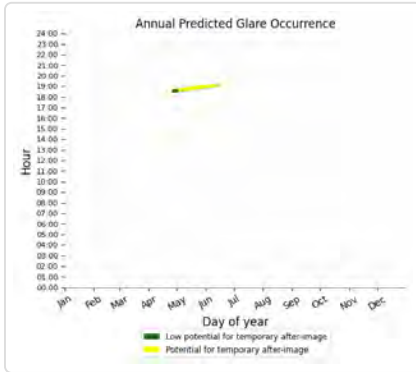
307: 1-ATCT

No glare found

307: OP 2

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

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



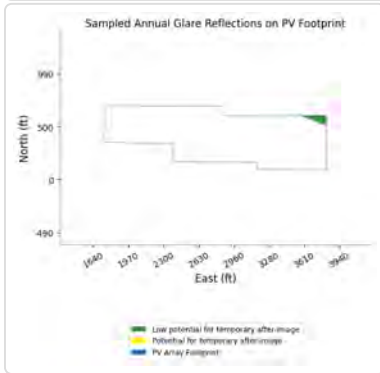
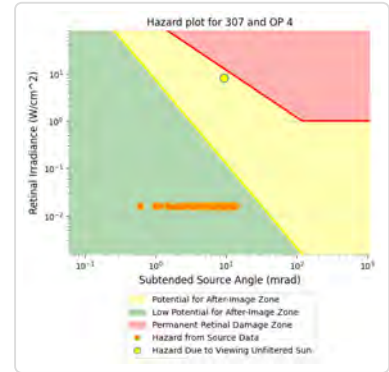
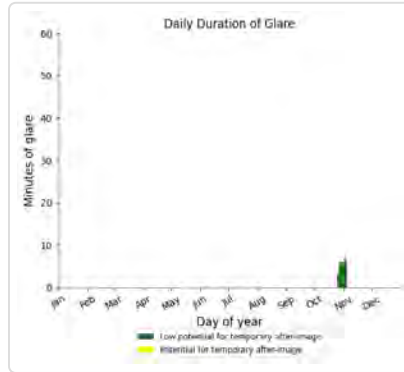
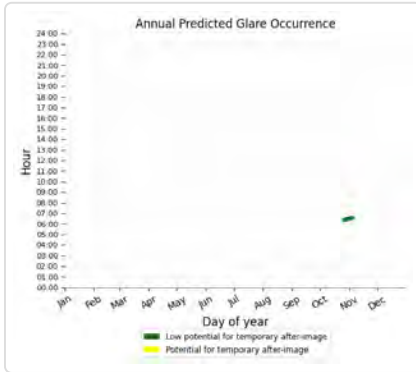
307: OP 3

No glare found

307: OP 4

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

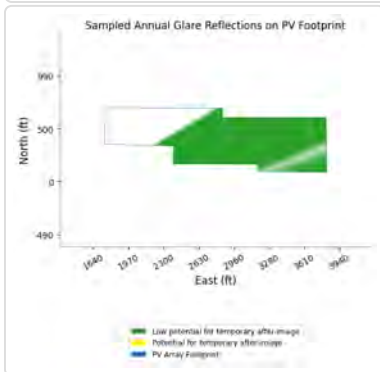
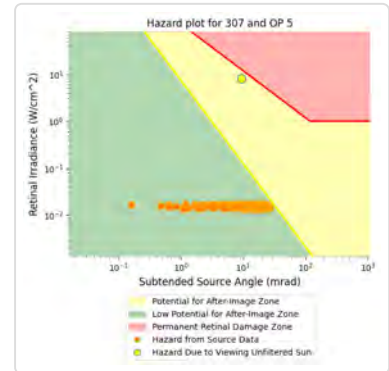
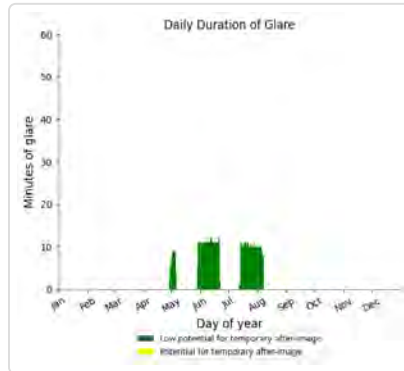
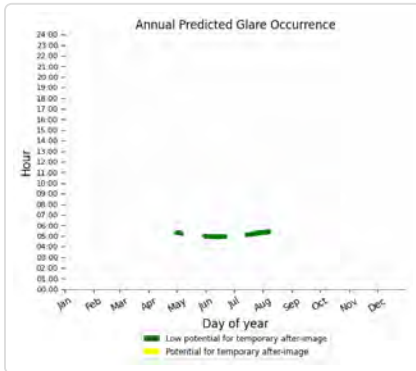
- 58 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: OP 5

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

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



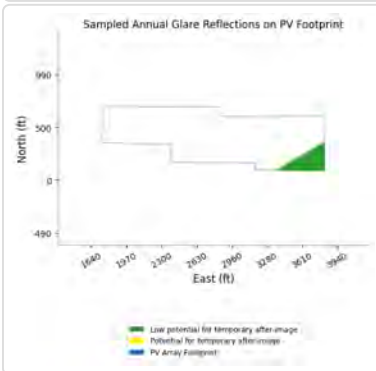
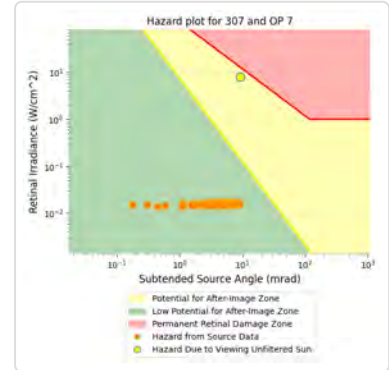
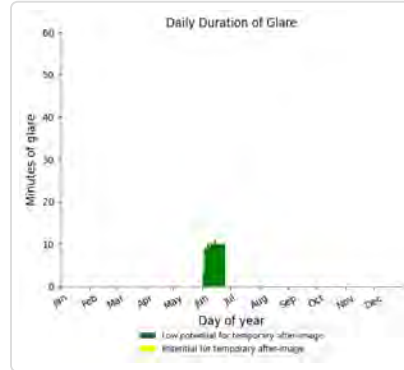
307: OP 6

No glare found

307: OP 7

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

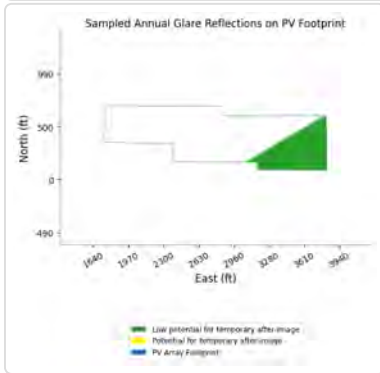
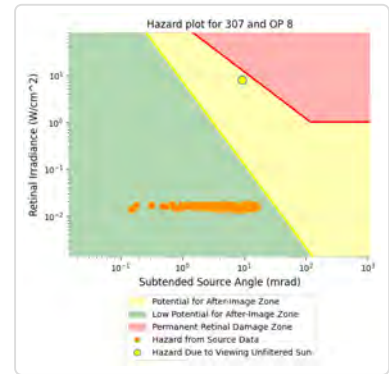
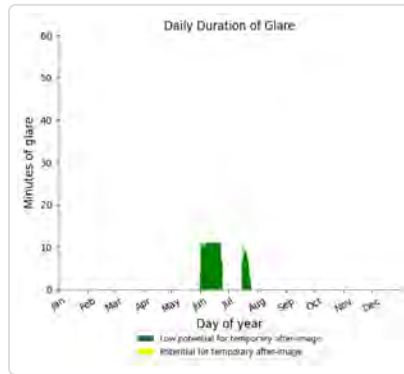
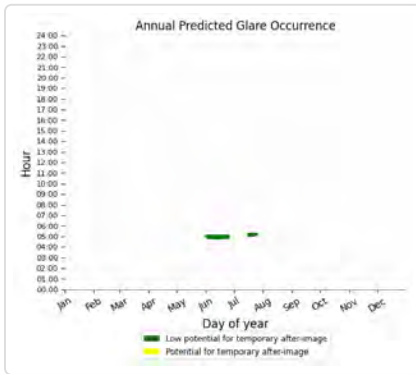
- 230 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: OP 8

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

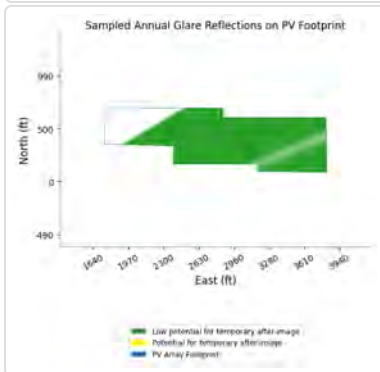
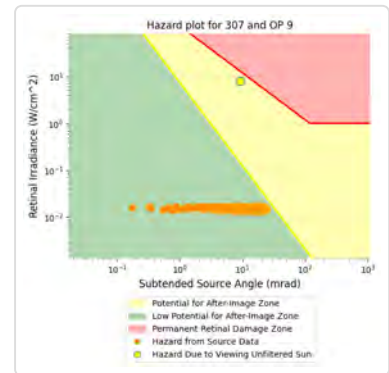
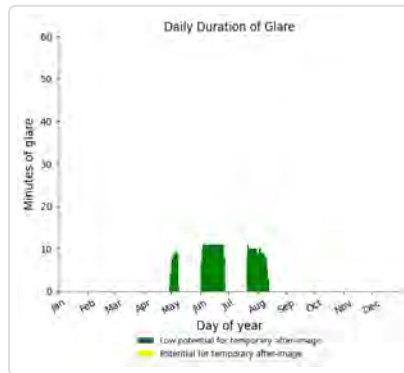
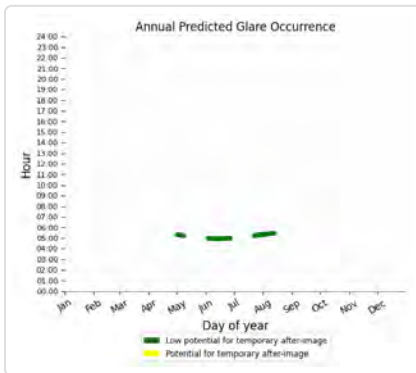
- 319 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: OP 9

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

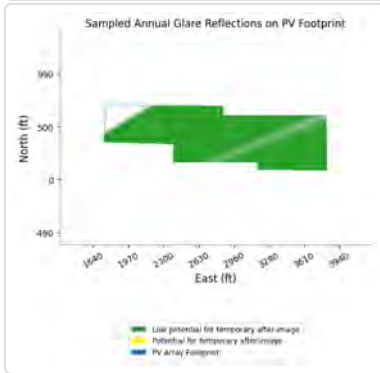
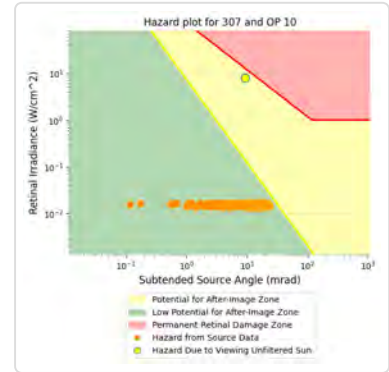
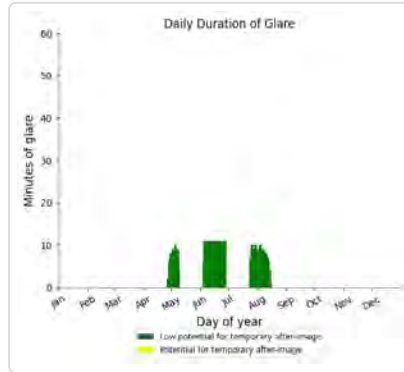
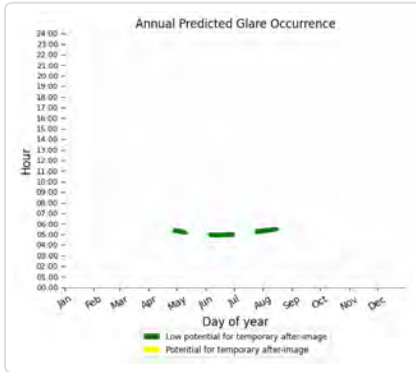
- 567 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: OP 10

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

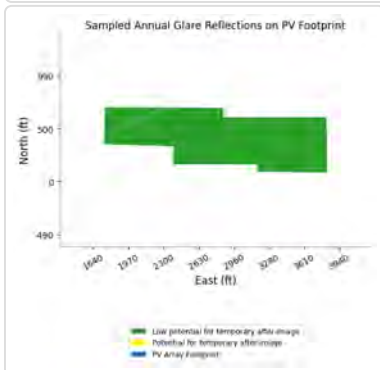
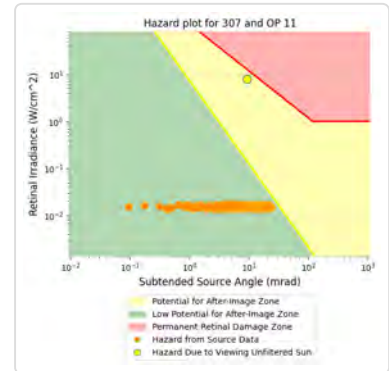
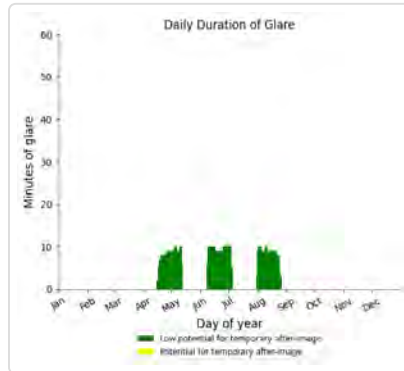
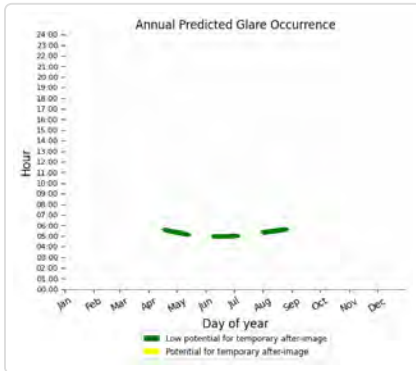
- 592 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: OP 11

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

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



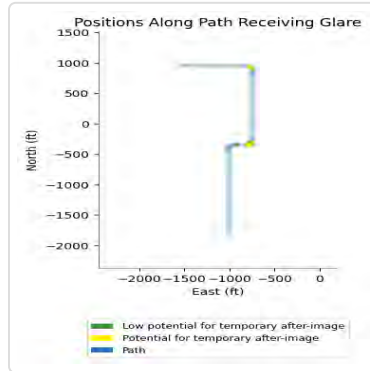
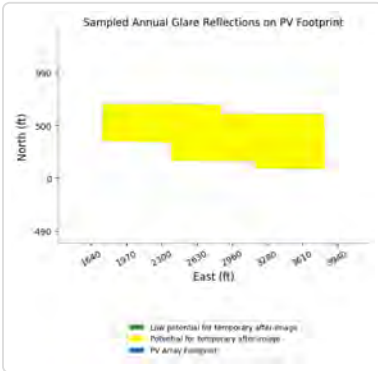
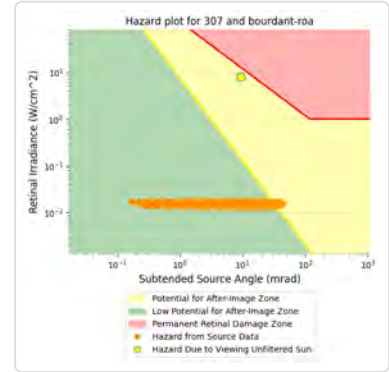
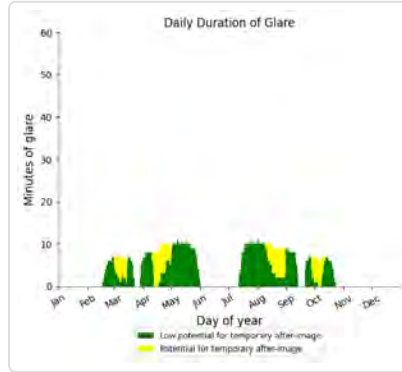
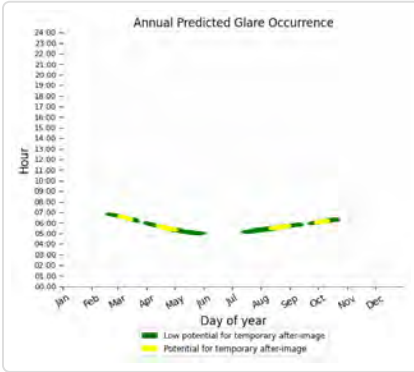
307: Boulton Road

No glare found

307: Bourdant Road

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

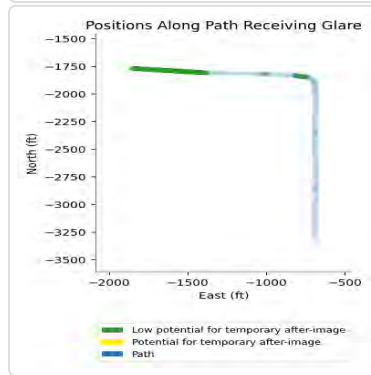
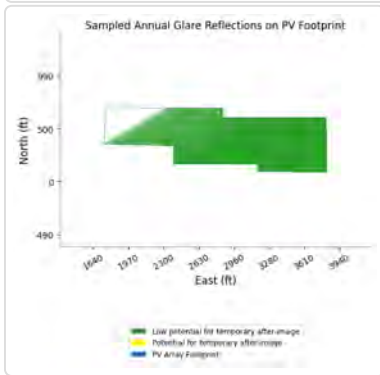
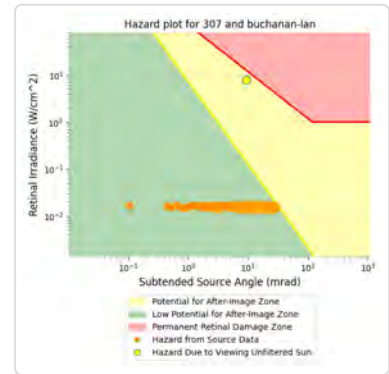
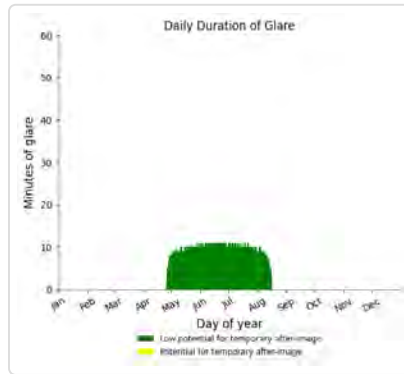
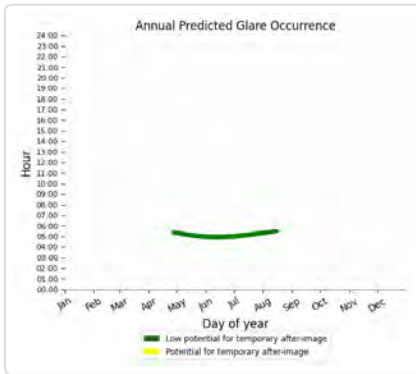
- 1,134 minutes of "green" glare with low potential to cause temporary after-image.
- 392 minutes of "yellow" glare with potential to cause temporary after-image.



307: Buchanan Lane

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

- 1,109 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: County Line Road

No glare found

308 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	61	0
OP: OP 6	0	0
OP: OP 7	88	0
OP: OP 8	82	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	197	0
Route: County Line Road	0	0

308: Barkley Regional Airport Runway 14

No glare found

308: Barkley Regional Airport Runway 23

No glare found

308: Barkley Regional Airport Runway 32

No glare found

308: Barkley Regional Airport Runway 5

No glare found

308: 1-ATCT

No glare found

308: OP 2

No glare found

308: OP 3

No glare found

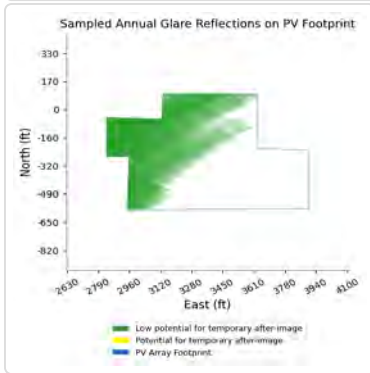
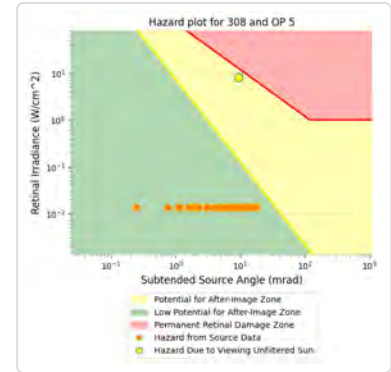
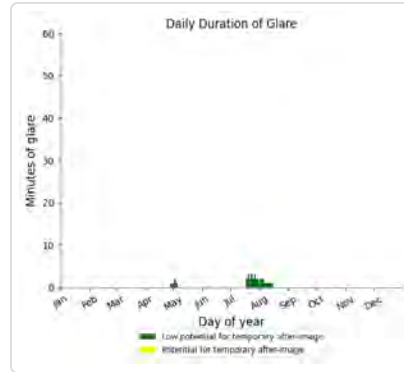
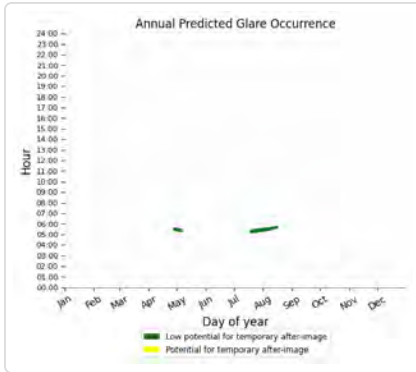
308: OP 4

No glare found

308: OP 5

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

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



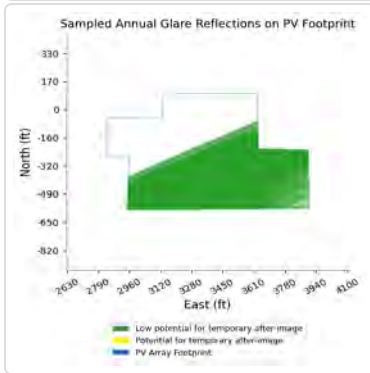
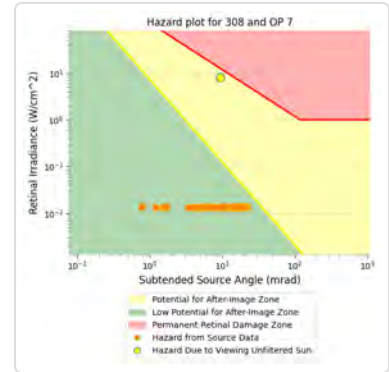
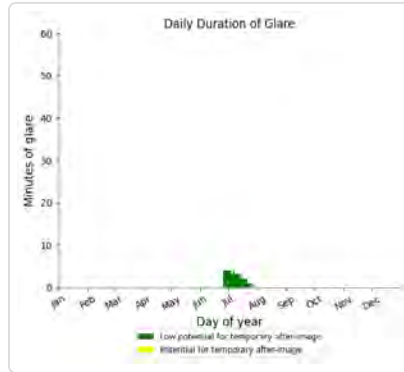
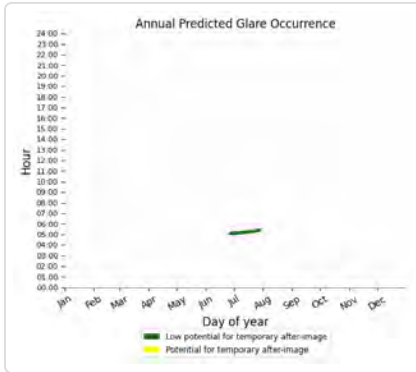
308: OP 6

No glare found

308: OP 7

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

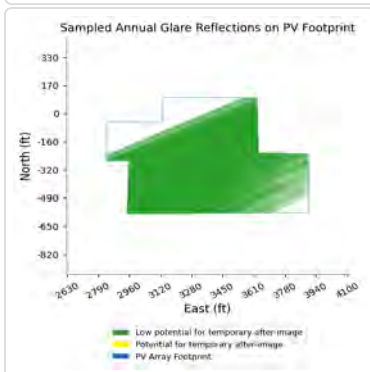
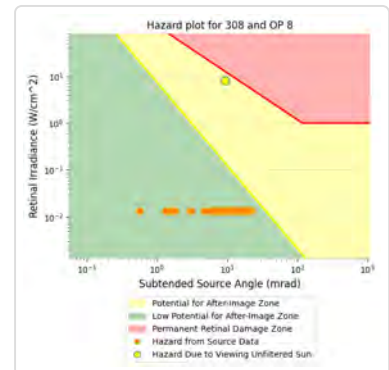
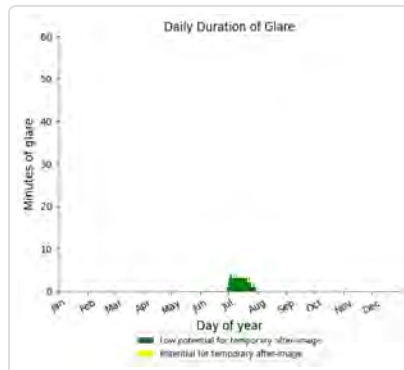
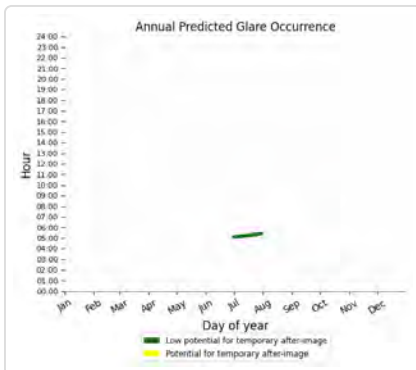
- 88 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



308: OP 8

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

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



308: OP 9

No glare found

308: OP 10

No glare found

308: OP 11

No glare found

308: Boulton Road

No glare found

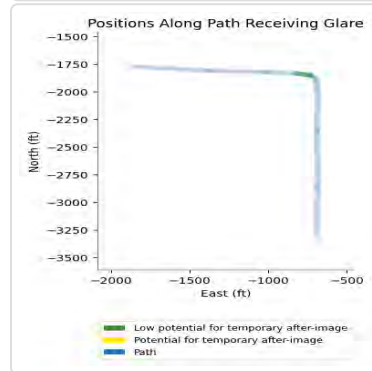
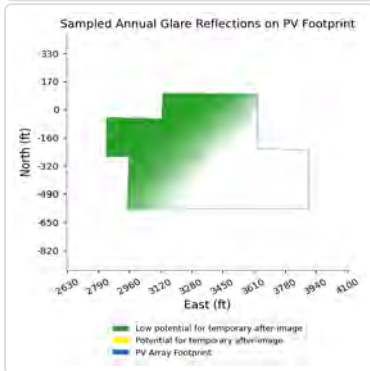
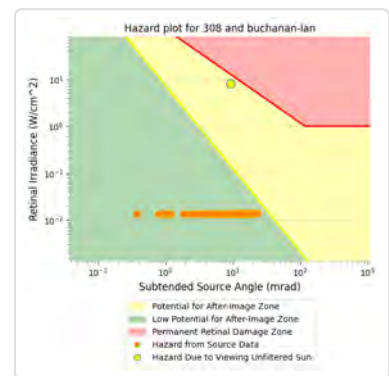
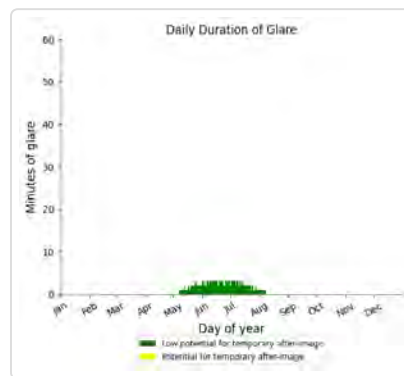
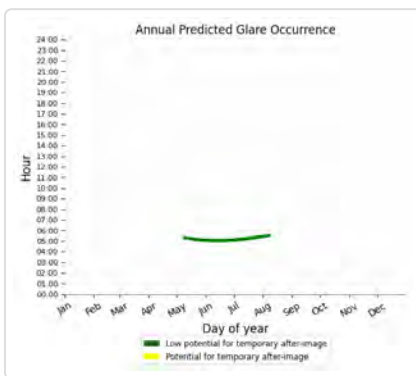
308: Bourdant Road

No glare found

308: Buchanan Lane

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

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



308: County Line Road

No glare found

Assumptions

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

- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 3 5ft vehicles 10 deg resting

Created Aug 18, 2023
Updated Aug 18, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 98008.17111

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



Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	0	0	-
302	SA tracking	SA tracking	0	0	-
303	SA tracking	SA tracking	0	0	-
304	SA tracking	SA tracking	0	0	-
305	SA tracking	SA tracking	0	0	-
306	SA tracking	SA tracking	0	0	-
307	SA tracking	SA tracking	0	0	-
308	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 135.9 acres

Name: 301
Footprint area: 9.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 10.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018187	-88.877466	455.52	7.50	463.02
2	37.017240	-88.877439	457.96	7.50	465.46
3	37.017249	-88.877246	458.16	7.50	465.66
4	37.016478	-88.877241	464.21	7.50	471.71
5	37.016469	-88.879735	472.60	7.50	480.10
6	37.017292	-88.879735	467.89	7.50	475.39
7	37.017296	-88.879617	465.40	7.50	472.90
8	37.018182	-88.879612	465.20	7.50	472.70

Name: 302
Footprint area: 18.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 10.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016469	-88.879735	472.60	7.50	480.10
2	37.016482	-88.875401	442.92	7.50	450.42
3	37.015548	-88.875369	442.65	7.50	450.15
4	37.015544	-88.875666	444.06	7.50	451.56
5	37.014722	-88.875669	446.13	7.50	453.63
6	37.014741	-88.879751	473.41	7.50	480.91

Name: 303

Footprint area: 24.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014745	-88.879757	473.46	7.50	480.96
2	37.014715	-88.875669	446.13	7.50	453.63
3	37.012912	-88.875610	450.26	7.50	457.76
4	37.012895	-88.875744	451.80	7.50	459.30
5	37.011995	-88.875744	459.32	7.50	466.82
6	37.012004	-88.877032	468.12	7.50	475.62
7	37.012252	-88.877010	467.69	7.50	475.19
8	37.012299	-88.879537	471.96	7.50	479.46
9	37.012783	-88.879531	473.24	7.50	480.74
10	37.012779	-88.879317	470.24	7.50	477.74
11	37.013679	-88.879290	466.25	7.50	473.75
12	37.013674	-88.879773	472.44	7.50	479.94

Name: 304

Footprint area: 14.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018369	-88.874489	436.53	7.50	444.03
2	37.018394	-88.871292	440.66	7.50	448.16
3	37.017606	-88.871292	456.81	7.50	464.31
4	37.017606	-88.871200	456.89	7.50	464.39
5	37.016583	-88.871206	463.22	7.50	470.72
6	37.016587	-88.874467	442.04	7.50	449.54

Name: 305

Footprint area: 20.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016583	-88.871206	463.22	7.50	470.72
2	37.014017	-88.871270	469.80	7.50	477.30
3	37.014060	-88.874816	447.06	7.50	454.56
4	37.014916	-88.874811	448.26	7.50	455.76
5	37.014916	-88.874618	451.60	7.50	459.10
6	37.015795	-88.874628	442.20	7.50	449.70
7	37.015795	-88.874473	443.34	7.50	450.84
8	37.016583	-88.874467	442.06	7.50	449.56

Name: 306

Footprint area: 15.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014008	-88.871281	469.79	7.50	477.29
2	37.012179	-88.871351	462.33	7.50	469.83
3	37.012192	-88.874821	449.74	7.50	457.24
4	37.014056	-88.874816	447.06	7.50	454.56

Name: 307

Footprint area: 21.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.019144	-88.871490	438.71	7.50	446.21
2	37.020078	-88.871447	445.10	7.50	452.60
3	37.020069	-88.867714	462.10	7.50	469.60
4	37.019821	-88.867714	461.77	7.50	469.27
5	37.019825	-88.864414	472.93	7.50	480.43
6	37.018424	-88.864398	465.43	7.50	472.93
7	37.018442	-88.866592	452.03	7.50	459.53
8	37.018630	-88.866598	452.85	7.50	460.35
9	37.018639	-88.869285	443.10	7.50	450.60
10	37.019101	-88.869275	447.60	7.50	455.10

Name: 308

Footprint area: 12.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018437	-88.865047	461.43	7.50	468.93
2	37.017551	-88.865021	469.67	7.50	477.17
3	37.017534	-88.864119	465.31	7.50	472.81
4	37.016600	-88.864109	456.77	7.50	464.27
5	37.016583	-88.867392	446.71	7.50	454.21
6	37.017426	-88.867354	451.09	7.50	458.59
7	37.017426	-88.867762	447.21	7.50	454.71
8	37.018052	-88.867757	446.82	7.50	454.32
9	37.018030	-88.866764	457.33	7.50	464.83
10	37.018442	-88.866743	448.77	7.50	456.27

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Boulton Road
Route type: Two-way
View angle: 50.0 deg



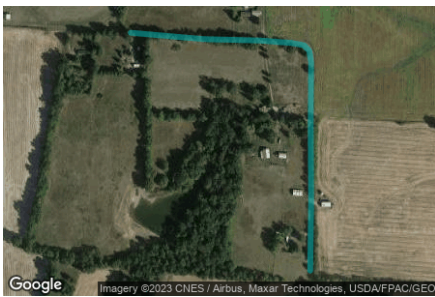
Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020283	-88.863792	476.00	5.00	481.00
2	37.020275	-88.865530	461.77	5.00	466.77
3	37.020343	-88.867837	460.38	5.00	465.38
4	37.020369	-88.868910	463.76	5.00	468.76

Name: Bourdant Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020823	-88.882682	456.44	5.00	461.44
2	37.020788	-88.880139	446.36	5.00	451.36
3	37.020643	-88.879978	446.27	5.00	451.27
4	37.020411	-88.880010	448.87	5.00	453.87
5	37.017388	-88.880032	470.88	5.00	475.88
6	37.017242	-88.880107	471.16	5.00	476.16
7	37.017225	-88.880214	472.38	5.00	477.38
8	37.017242	-88.880643	472.91	5.00	477.91
9	37.017156	-88.880890	474.80	5.00	479.80
10	37.017045	-88.880912	475.67	5.00	480.67
11	37.013190	-88.880901	477.29	5.00	482.29

Name: Buchanan Lane
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.013327	-88.883819	461.63	5.00	466.63
2	37.013216	-88.882210	471.96	5.00	476.96
3	37.013190	-88.880965	477.19	5.00	482.19
4	37.013147	-88.880257	475.69	5.00	480.69
5	37.013104	-88.879978	477.05	5.00	482.05
6	37.013010	-88.879860	475.50	5.00	480.50
7	37.012804	-88.879817	475.61	5.00	480.61
8	37.011699	-88.879828	476.77	5.00	481.77
9	37.010346	-88.879817	477.06	5.00	482.06
10	37.009112	-88.879839	465.43	5.00	470.43

Name: County Line Road

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022331	-88.863760	480.66	5.00	485.66
2	37.018887	-88.863792	470.16	5.00	475.16
3	37.016180	-88.863803	460.48	5.00	465.48
4	37.013747	-88.863867	471.42	5.00	476.42
5	37.013207	-88.863685	474.48	5.00	479.48
6	37.012719	-88.863030	469.97	5.00	474.97
7	37.012376	-88.862344	467.86	5.00	472.86
8	37.011965	-88.861882	468.79	5.00	473.79
9	37.011614	-88.861829	466.72	5.00	471.72
10	37.010586	-88.861818	471.69	5.00	476.69
11	37.007467	-88.861882	479.34	5.00	484.34

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.017953	-88.864287	473.68	16.00	489.68
OP 3	37.019105	-88.863536	476.70	16.00	492.70
OP 4	37.021135	-88.869099	475.47	16.00	491.47
OP 5	37.013648	-88.881298	478.37	16.00	494.37
OP 6	37.009647	-88.880273	483.41	16.00	499.41
OP 7	37.011618	-88.880112	477.91	16.00	493.91
OP 8	37.011956	-88.880853	478.71	16.00	494.71
OP 9	37.012890	-88.883905	470.20	16.00	486.20
OP 10	37.012946	-88.884870	465.73	16.00	481.73
OP 11	37.013879	-88.887424	460.77	16.00	476.77

1-ATCT map image



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	
301	SA tracking	SA tracking	0	0	-	-
302	SA tracking	SA tracking	0	0	-	-
303	SA tracking	SA tracking	0	0	-	-
304	SA tracking	SA tracking	0	0	-	-
305	SA tracking	SA tracking	0	0	-	-
306	SA tracking	SA tracking	0	0	-	-
307	SA tracking	SA tracking	0	0	-	-
308	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

301 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

302 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

303 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

304 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

305 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

306 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

307 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

308 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 3 5ft vehicles 60 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98009.17111

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



Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	0	0	-
302	SA tracking	SA tracking	0	0	-
303	SA tracking	SA tracking	0	0	-
304	SA tracking	SA tracking	0	0	-
305	SA tracking	SA tracking	0	0	-
306	SA tracking	SA tracking	0	0	-
307	SA tracking	SA tracking	0	0	-
308	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 135.9 acres

Name: 301
Footprint area: 9.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018187	-88.877466	455.52	7.50	463.02
2	37.017240	-88.877439	457.96	7.50	465.46
3	37.017249	-88.877246	458.16	7.50	465.66
4	37.016478	-88.877241	464.21	7.50	471.71
5	37.016469	-88.879735	472.60	7.50	480.10
6	37.017292	-88.879735	467.89	7.50	475.39
7	37.017296	-88.879617	465.40	7.50	472.90
8	37.018182	-88.879612	465.20	7.50	472.70

Name: 302
Footprint area: 18.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016469	-88.879735	472.60	7.50	480.10
2	37.016482	-88.875401	442.92	7.50	450.42
3	37.015548	-88.875369	442.65	7.50	450.15
4	37.015544	-88.875666	444.06	7.50	451.56
5	37.014722	-88.875669	446.13	7.50	453.63
6	37.014741	-88.879751	473.41	7.50	480.91

Name: 303

Footprint area: 24.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014745	-88.879757	473.46	7.50	480.96
2	37.014715	-88.875669	446.13	7.50	453.63
3	37.012912	-88.875610	450.26	7.50	457.76
4	37.012895	-88.875744	451.80	7.50	459.30
5	37.011995	-88.875744	459.32	7.50	466.82
6	37.012004	-88.877032	468.12	7.50	475.62
7	37.012252	-88.877010	467.69	7.50	475.19
8	37.012299	-88.879537	471.96	7.50	479.46
9	37.012783	-88.879531	473.24	7.50	480.74
10	37.012779	-88.879317	470.24	7.50	477.74
11	37.013679	-88.879290	466.25	7.50	473.75
12	37.013674	-88.879773	472.44	7.50	479.94

Name: 304

Footprint area: 14.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018369	-88.874489	436.53	7.50	444.03
2	37.018394	-88.871292	440.66	7.50	448.16
3	37.017606	-88.871292	456.81	7.50	464.31
4	37.017606	-88.871200	456.89	7.50	464.39
5	37.016583	-88.871206	463.22	7.50	470.72
6	37.016587	-88.874467	442.04	7.50	449.54

Name: 305

Footprint area: 20.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.29

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016583	-88.871206	463.22	7.50	470.72
2	37.014017	-88.871270	469.80	7.50	477.30
3	37.014060	-88.874816	447.06	7.50	454.56
4	37.014916	-88.874811	448.26	7.50	455.76
5	37.014916	-88.874618	451.60	7.50	459.10
6	37.015795	-88.874628	442.20	7.50	449.70
7	37.015795	-88.874473	443.34	7.50	450.84
8	37.016583	-88.874467	442.06	7.50	449.56

Name: 306

Footprint area: 15.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

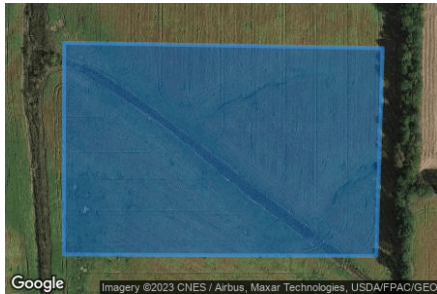
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014008	-88.871281	469.79	7.50	477.29
2	37.012179	-88.871351	462.33	7.50	469.83
3	37.012192	-88.874821	449.74	7.50	457.24
4	37.014056	-88.874816	447.06	7.50	454.56

Name: 307

Footprint area: 21.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.019144	-88.871490	438.71	7.50	446.21
2	37.020078	-88.871447	445.10	7.50	452.60
3	37.020069	-88.867714	462.10	7.50	469.60
4	37.019821	-88.867714	461.77	7.50	469.27
5	37.019825	-88.864414	472.93	7.50	480.43
6	37.018424	-88.864398	465.43	7.50	472.93
7	37.018442	-88.866592	452.03	7.50	459.53
8	37.018630	-88.866598	452.85	7.50	460.35
9	37.018639	-88.869285	443.10	7.50	450.60
10	37.019101	-88.869275	447.60	7.50	455.10

Name: 308

Footprint area: 12.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018437	-88.865047	461.43	7.50	468.93
2	37.017551	-88.865021	469.67	7.50	477.17
3	37.017534	-88.864119	465.31	7.50	472.81
4	37.016600	-88.864109	456.77	7.50	464.27
5	37.016583	-88.867392	446.71	7.50	454.21
6	37.017426	-88.867354	451.09	7.50	458.59
7	37.017426	-88.867762	447.21	7.50	454.71
8	37.018052	-88.867757	446.82	7.50	454.32
9	37.018030	-88.866764	457.33	7.50	464.83
10	37.018442	-88.866743	448.77	7.50	456.27

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Boulton Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020283	-88.863792	476.00	5.00	481.00
2	37.020275	-88.865530	461.77	5.00	466.77
3	37.020343	-88.867837	460.38	5.00	465.38
4	37.020369	-88.868910	463.76	5.00	468.76

Name: Bourdant Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020823	-88.882682	456.44	5.00	461.44
2	37.020788	-88.880139	446.36	5.00	451.36
3	37.020643	-88.879978	446.27	5.00	451.27
4	37.020411	-88.880010	448.87	5.00	453.87
5	37.017388	-88.880032	470.88	5.00	475.88
6	37.017242	-88.880107	471.16	5.00	476.16
7	37.017225	-88.880214	472.38	5.00	477.38
8	37.017242	-88.880643	472.91	5.00	477.91
9	37.017156	-88.880890	474.80	5.00	479.80
10	37.017045	-88.880912	475.67	5.00	480.67
11	37.013190	-88.880901	477.29	5.00	482.29

Name: Buchanan Lane
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.013327	-88.883819	461.63	5.00	466.63
2	37.013216	-88.882210	471.96	5.00	476.96
3	37.013190	-88.880965	477.19	5.00	482.19
4	37.013147	-88.880257	475.69	5.00	480.69
5	37.013104	-88.879978	477.05	5.00	482.05
6	37.013010	-88.879860	475.50	5.00	480.50
7	37.012804	-88.879817	475.61	5.00	480.61
8	37.011699	-88.879828	476.77	5.00	481.77
9	37.010346	-88.879817	477.06	5.00	482.06
10	37.009112	-88.879839	465.43	5.00	470.43

Name: County Line Road

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022331	-88.863760	480.66	5.00	485.66
2	37.018887	-88.863792	470.16	5.00	475.16
3	37.016180	-88.863803	460.48	5.00	465.48
4	37.013747	-88.863867	471.42	5.00	476.42
5	37.013207	-88.863685	474.48	5.00	479.48
6	37.012719	-88.863030	469.97	5.00	474.97
7	37.012376	-88.862344	467.86	5.00	472.86
8	37.011965	-88.861882	468.79	5.00	473.79
9	37.011614	-88.861829	466.72	5.00	471.72
10	37.010586	-88.861818	471.69	5.00	476.69
11	37.007467	-88.861882	479.34	5.00	484.34

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.017953	-88.864287	473.68	16.00	489.68
OP 3	37.019105	-88.863536	476.70	16.00	492.70
OP 4	37.021135	-88.869099	475.47	16.00	491.47
OP 5	37.013648	-88.881298	478.37	16.00	494.37
OP 6	37.009647	-88.880273	483.41	16.00	499.41
OP 7	37.011618	-88.880112	477.91	16.00	493.91
OP 8	37.011956	-88.880853	478.71	16.00	494.71
OP 9	37.012890	-88.883905	470.20	16.00	486.20
OP 10	37.012946	-88.884870	465.73	16.00	481.73
OP 11	37.013879	-88.887424	460.77	16.00	476.77

1-ATCT map image



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	
301	SA tracking	SA tracking	0	0	-	-
302	SA tracking	SA tracking	0	0	-	-
303	SA tracking	SA tracking	0	0	-	-
304	SA tracking	SA tracking	0	0	-	-
305	SA tracking	SA tracking	0	0	-	-
306	SA tracking	SA tracking	0	0	-	-
307	SA tracking	SA tracking	0	0	-	-
308	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

301 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

302 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

303 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

304 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

305 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

306 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

307 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

308 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 3 9ft vehicles 0 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98064.17111

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



Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	3,374	431	-
302	SA tracking	SA tracking	2,331	295	-
303	SA tracking	SA tracking	3,822	284	-
304	SA tracking	SA tracking	2,893	1,621	-
305	SA tracking	SA tracking	200	189	-
306	SA tracking	SA tracking	4,353	483	-
307	SA tracking	SA tracking	5,699	903	-
308	SA tracking	SA tracking	487	0	-

Component Data

PV Array(s)

Total PV footprint area: 135.9 acres

Name: 301
Footprint area: 9.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 0.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018187	-88.877466	455.52	7.50	463.02
2	37.017240	-88.877439	457.96	7.50	465.46
3	37.017249	-88.877246	458.16	7.50	465.66
4	37.016478	-88.877241	464.21	7.50	471.71
5	37.016469	-88.879735	472.60	7.50	480.10
6	37.017292	-88.879735	467.89	7.50	475.39
7	37.017296	-88.879617	465.40	7.50	472.90
8	37.018182	-88.879612	465.20	7.50	472.70

Name: 302
Footprint area: 18.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 0.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016469	-88.879735	472.60	7.50	480.10
2	37.016482	-88.875401	442.92	7.50	450.42
3	37.015548	-88.875369	442.65	7.50	450.15
4	37.015544	-88.875666	444.06	7.50	451.56
5	37.014722	-88.875669	446.13	7.50	453.63
6	37.014741	-88.879751	473.41	7.50	480.91

Name: 303

Footprint area: 24.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014745	-88.879757	473.46	7.50	480.96
2	37.014715	-88.875669	446.13	7.50	453.63
3	37.012912	-88.875610	450.26	7.50	457.76
4	37.012895	-88.875744	451.80	7.50	459.30
5	37.011995	-88.875744	459.32	7.50	466.82
6	37.012004	-88.877032	468.12	7.50	475.62
7	37.012252	-88.877010	467.69	7.50	475.19
8	37.012299	-88.879537	471.96	7.50	479.46
9	37.012783	-88.879531	473.24	7.50	480.74
10	37.012779	-88.879317	470.24	7.50	477.74
11	37.013679	-88.879290	466.25	7.50	473.75
12	37.013674	-88.879773	472.44	7.50	479.94

Name: 304

Footprint area: 14.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018369	-88.874489	436.53	7.50	444.03
2	37.018394	-88.871292	440.66	7.50	448.16
3	37.017606	-88.871292	456.81	7.50	464.31
4	37.017606	-88.871200	456.89	7.50	464.39
5	37.016583	-88.871206	463.22	7.50	470.72
6	37.016587	-88.874467	442.04	7.50	449.54

Name: 305

Footprint area: 20.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016583	-88.871206	463.22	7.50	470.72
2	37.014017	-88.871270	469.80	7.50	477.30
3	37.014060	-88.874816	447.06	7.50	454.56
4	37.014916	-88.874811	448.26	7.50	455.76
5	37.014916	-88.874618	451.60	7.50	459.10
6	37.015795	-88.874628	442.20	7.50	449.70
7	37.015795	-88.874473	443.34	7.50	450.84
8	37.016583	-88.874467	442.06	7.50	449.56

Name: 306

Footprint area: 15.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

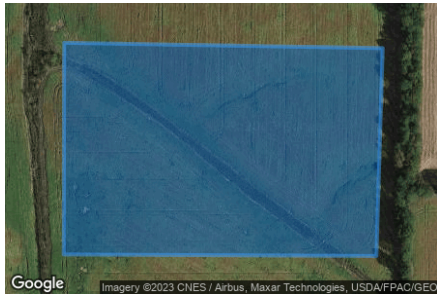
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014008	-88.871281	469.79	7.50	477.29
2	37.012179	-88.871351	462.33	7.50	469.83
3	37.012192	-88.874821	449.74	7.50	457.24
4	37.014056	-88.874816	447.06	7.50	454.56

Name: 307

Footprint area: 21.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.019144	-88.871490	438.71	7.50	446.21
2	37.020078	-88.871447	445.10	7.50	452.60
3	37.020069	-88.867714	462.10	7.50	469.60
4	37.019821	-88.867714	461.77	7.50	469.27
5	37.019825	-88.864414	472.93	7.50	480.43
6	37.018424	-88.864398	465.43	7.50	472.93
7	37.018442	-88.866592	452.03	7.50	459.53
8	37.018630	-88.866598	452.85	7.50	460.35
9	37.018639	-88.869285	443.10	7.50	450.60
10	37.019101	-88.869275	447.60	7.50	455.10

Name: 308

Footprint area: 12.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 0.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018437	-88.865047	461.43	7.50	468.93
2	37.017551	-88.865021	469.67	7.50	477.17
3	37.017534	-88.864119	465.31	7.50	472.81
4	37.016600	-88.864109	456.77	7.50	464.27
5	37.016583	-88.867392	446.71	7.50	454.21
6	37.017426	-88.867354	451.09	7.50	458.59
7	37.017426	-88.867762	447.21	7.50	454.71
8	37.018052	-88.867757	446.82	7.50	454.32
9	37.018030	-88.866764	457.33	7.50	464.83
10	37.018442	-88.866743	448.77	7.50	456.27

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Boulton Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020283	-88.863792	476.00	9.00	485.00
2	37.020275	-88.865530	461.77	9.00	470.77
3	37.020343	-88.867837	460.38	9.00	469.38
4	37.020369	-88.868910	463.76	9.00	472.76

Name: Bourdant Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020823	-88.882682	456.44	9.00	465.44
2	37.020788	-88.880139	446.36	9.00	455.36
3	37.020643	-88.879978	446.27	9.00	455.27
4	37.020411	-88.880010	448.87	9.00	457.87
5	37.017388	-88.880032	470.88	9.00	479.88
6	37.017242	-88.880107	471.16	9.00	480.16
7	37.017225	-88.880214	472.38	9.00	481.38
8	37.017242	-88.880643	472.91	9.00	481.91
9	37.017156	-88.880890	474.80	9.00	483.80
10	37.017045	-88.880912	475.67	9.00	484.67
11	37.013190	-88.880901	477.29	9.00	486.29

Name: Buchanan Lane
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.013327	-88.883819	461.63	9.00	470.63
2	37.013216	-88.882210	471.96	9.00	480.96
3	37.013190	-88.880965	477.19	9.00	486.19
4	37.013147	-88.880257	475.69	9.00	484.69
5	37.013104	-88.879978	477.05	9.00	486.05
6	37.013010	-88.879860	475.50	9.00	484.50
7	37.012804	-88.879817	475.61	9.00	484.61
8	37.011699	-88.879828	476.77	9.00	485.77
9	37.010346	-88.879817	477.06	9.00	486.06
10	37.009112	-88.879839	465.43	9.00	474.43

Name: County Line Road

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022331	-88.863760	480.66	9.00	489.66
2	37.018887	-88.863792	470.16	9.00	479.16
3	37.016180	-88.863803	460.48	9.00	469.48
4	37.013747	-88.863867	471.42	9.00	480.42
5	37.013207	-88.863685	474.48	9.00	483.48
6	37.012719	-88.863030	469.97	9.00	478.97
7	37.012376	-88.862344	467.86	9.00	476.86
8	37.011965	-88.861882	468.79	9.00	477.79
9	37.011614	-88.861829	466.72	9.00	475.72
10	37.010586	-88.861818	471.69	9.00	480.69
11	37.007467	-88.861882	479.34	9.00	488.34

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.017953	-88.864287	473.68	16.00	489.68
OP 3	37.019105	-88.863536	476.70	16.00	492.70
OP 4	37.021135	-88.869099	475.47	16.00	491.47
OP 5	37.013648	-88.881298	478.37	16.00	494.37
OP 6	37.009647	-88.880273	483.41	16.00	499.41
OP 7	37.011618	-88.880112	477.91	16.00	493.91
OP 8	37.011956	-88.880853	478.71	16.00	494.71
OP 9	37.012890	-88.883905	470.20	16.00	486.20
OP 10	37.012946	-88.884870	465.73	16.00	481.73
OP 11	37.013879	-88.887424	460.77	16.00	476.77

1-ATCT map image



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	
301	SA tracking	SA tracking	3,374	431	-	-
302	SA tracking	SA tracking	2,331	295	-	-
303	SA tracking	SA tracking	3,822	284	-	-
304	SA tracking	SA tracking	2,893	1,621	-	-
305	SA tracking	SA tracking	200	189	-	-
306	SA tracking	SA tracking	4,353	483	-	-
307	SA tracking	SA tracking	5,699	903	-	-
308	SA tracking	SA tracking	487	0	-	-

Distinct glare per month

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

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
301 (green)	605	291	203	0	0	0	0	0	21	255	555	22
301 (yellow)	0	217	0	0	0	0	0	0	0	214	0	0
302 (green)	196	177	0	210	190	0	96	244	67	114	236	84
302 (yellow)	71	0	0	8	0	0	0	4	0	0	21	191
303 (green)	460	265	8	0	0	0	0	0	0	43	397	411
303 (yellow)	64	0	0	0	0	0	0	0	0	0	48	135
304 (green)	204	366	189	92	0	0	0	56	96	400	196	270
304 (yellow)	368	92	158	67	0	0	0	0	225	40	327	344
305 (green)	71	0	0	0	0	0	0	0	0	0	52	77
305 (yellow)	40	0	0	0	0	0	0	0	0	0	2	147
306 (green)	228	183	86	187	197	152	193	144	46	136	214	241
306 (yellow)	8	0	167	65	0	0	0	1	204	31	2	5
307 (green)	40	89	85	148	368	363	328	166	151	91	52	27
307 (yellow)	91	48	78	118	77	34	0	116	13	93	99	74
308 (green)	0	0	0	3	59	106	96	21	0	0	0	0
308 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

301 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	1228	0
FP: Barkley Regional Airport Runway 32	0	0

FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	157	0
OP: OP 2	0	0
OP: OP 3	85	0
OP: OP 4	650	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	1254	431
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

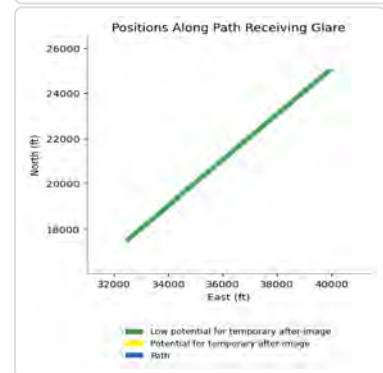
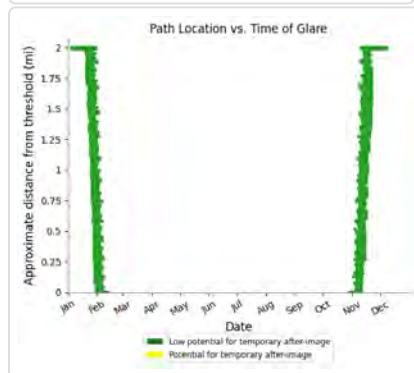
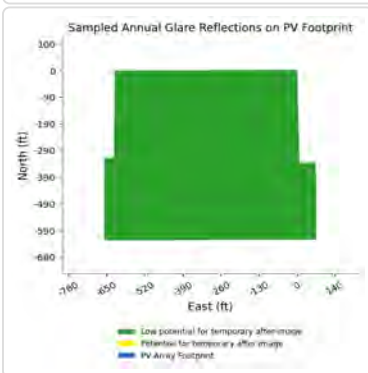
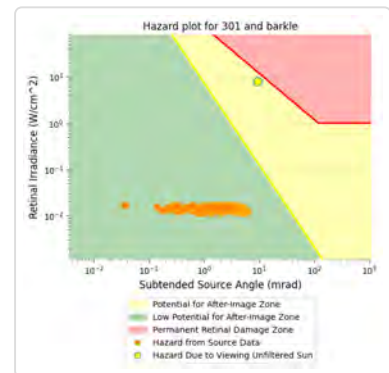
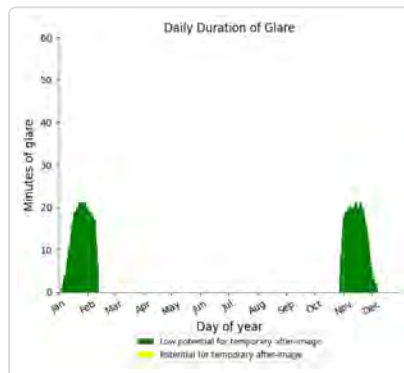
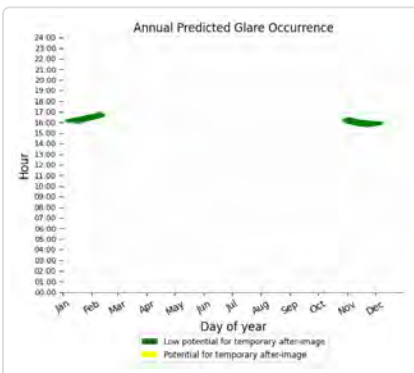
301: Barkley Regional Airport Runway 14

No glare found

301: Barkley Regional Airport Runway 23

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

- 1,228 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



301: Barkley Regional Airport Runway 32

No glare found

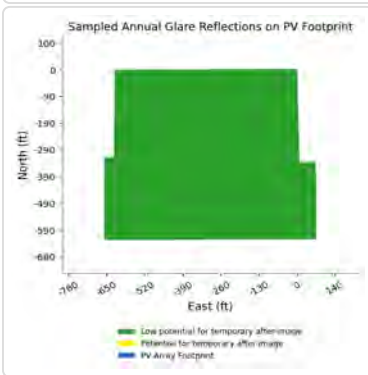
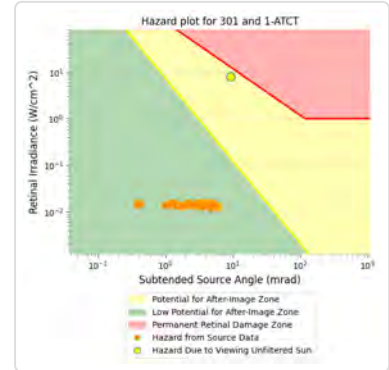
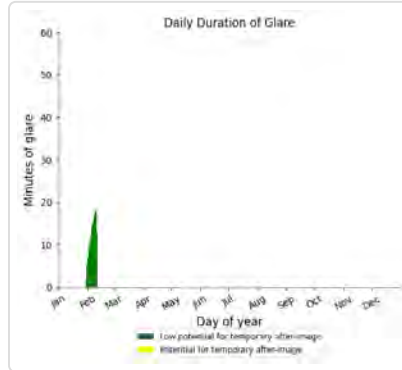
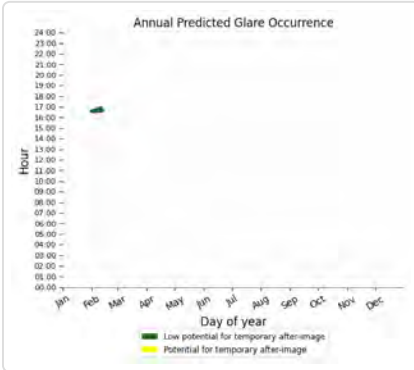
301: Barkley Regional Airport Runway 5

No glare found

301: 1-ATCT

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

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



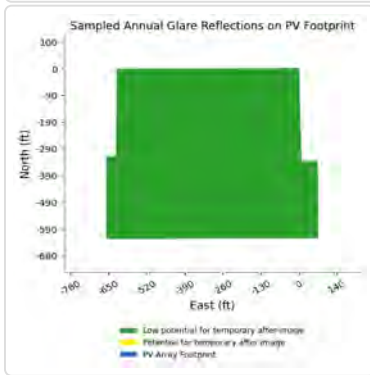
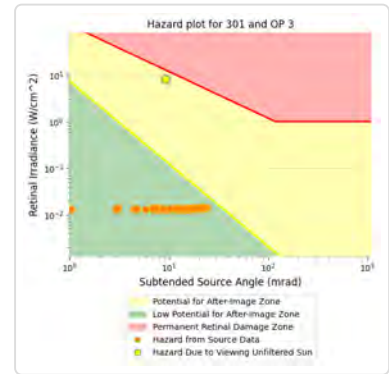
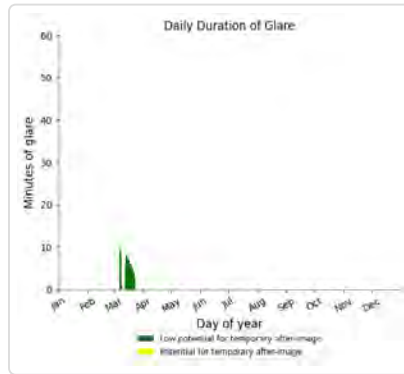
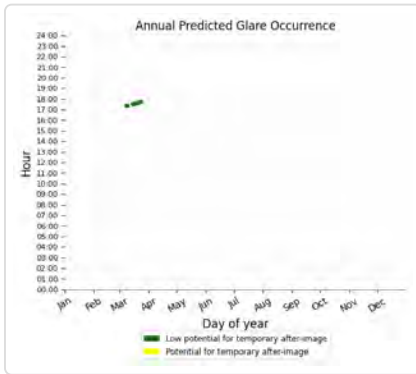
301: OP 2

No glare found

301: OP 3

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

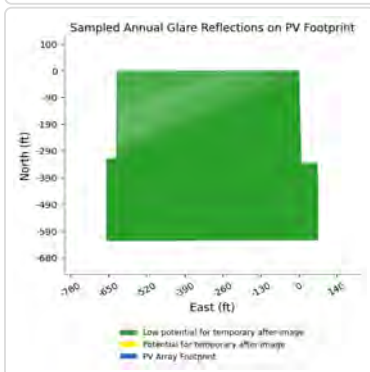
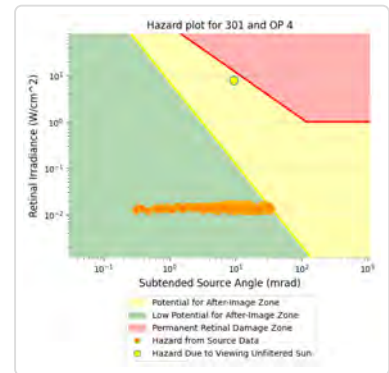
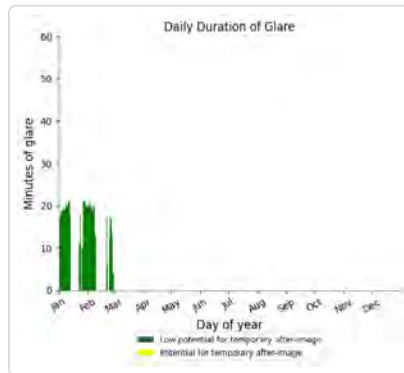
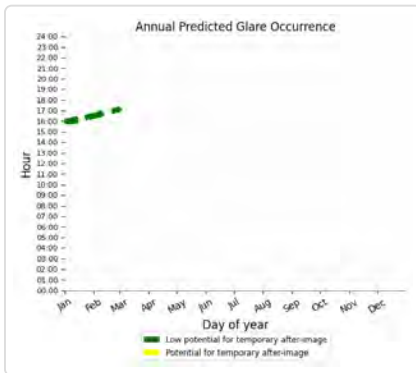
- 85 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



301: OP 4

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

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



301: OP 5

No glare found

301: OP 6

No glare found

301: OP 7

No glare found

301: OP 8

No glare found

301: OP 9

No glare found

301: OP 10

No glare found

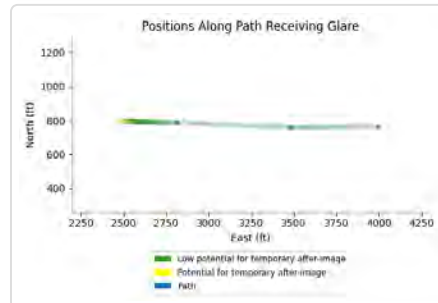
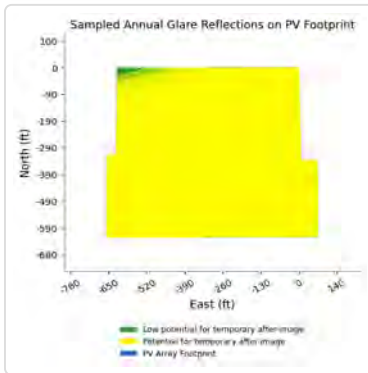
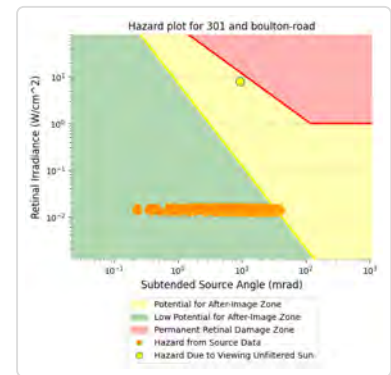
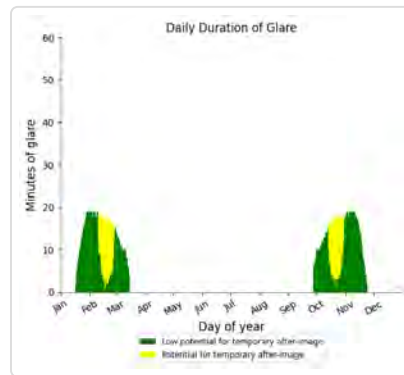
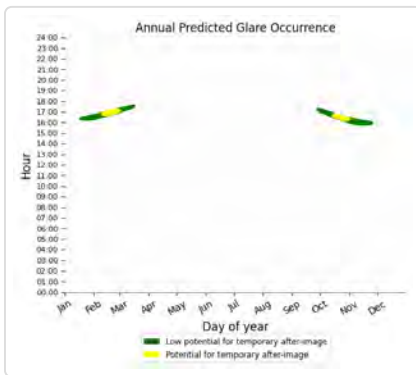
301: OP 11

No glare found

301: Boulton Road

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

- 1,254 minutes of "green" glare with low potential to cause temporary after-image.
- 431 minutes of "yellow" glare with potential to cause temporary after-image.



301: Bourdant Road

No glare found

301: Buchanan Lane

No glare found

301: County Line Road

No glare found

302 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	563	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	41	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	122	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	798	283
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	807	12

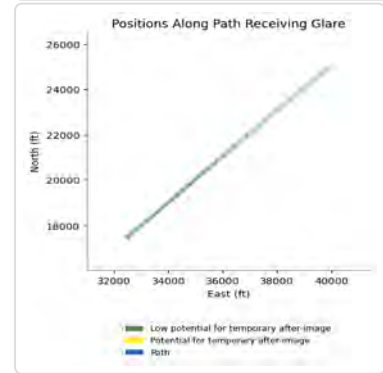
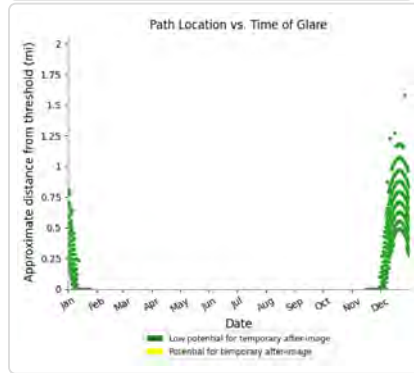
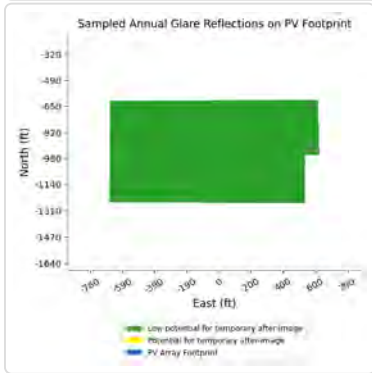
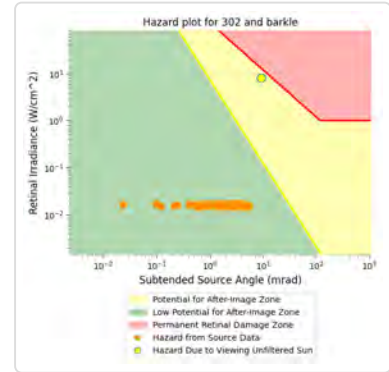
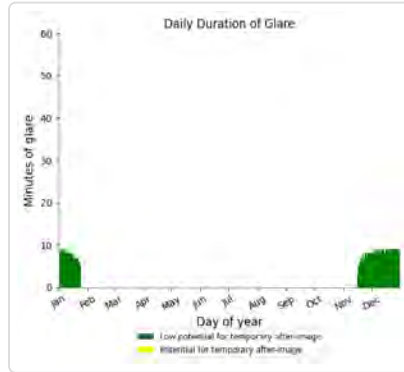
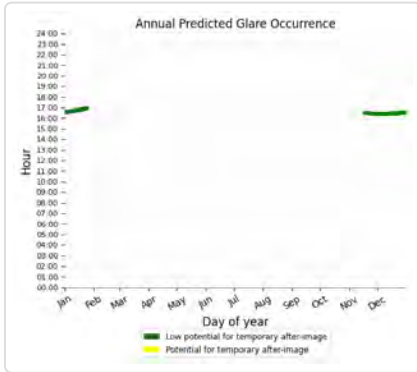
302: Barkley Regional Airport Runway 14

No glare found

302: Barkley Regional Airport Runway 23

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

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



302: Barkley Regional Airport Runway 32

No glare found

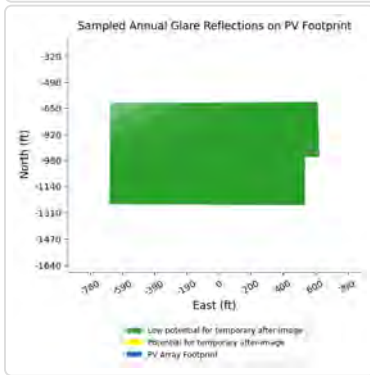
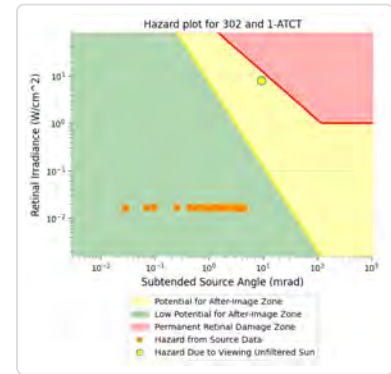
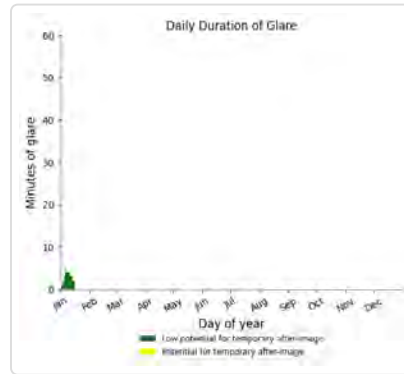
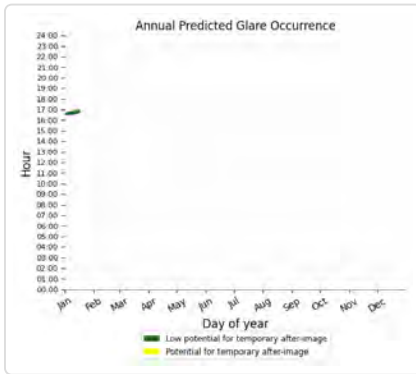
302: Barkley Regional Airport Runway 5

No glare found

302: 1-ATCT

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

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



302: OP 2

No glare found

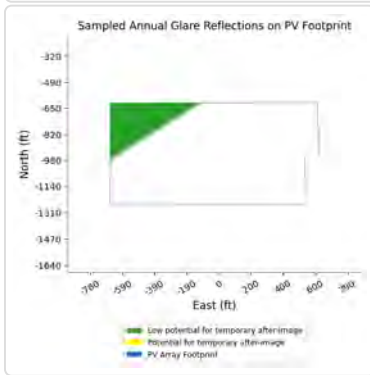
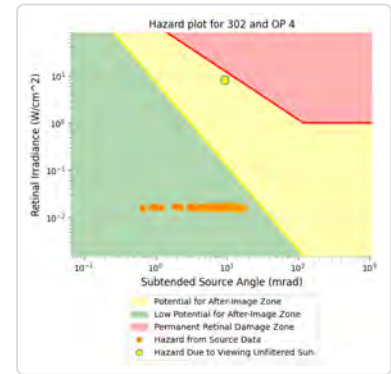
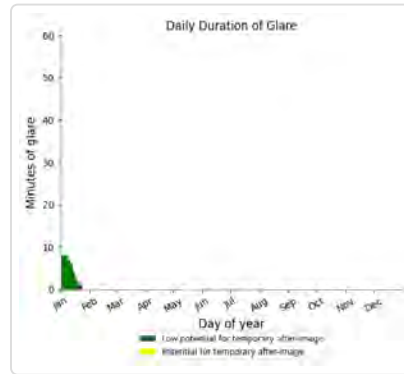
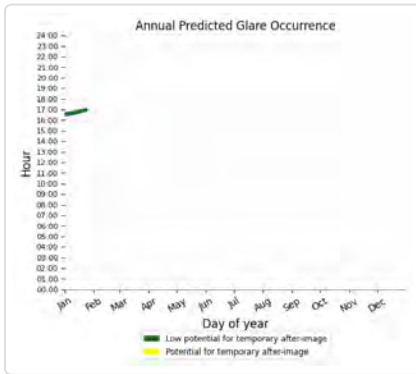
302: OP 3

No glare found

302: OP 4

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

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



302: OP 5

No glare found

302: OP 6

No glare found

302: OP 7

No glare found

302: OP 8

No glare found

302: OP 9

No glare found

302: OP 10

No glare found

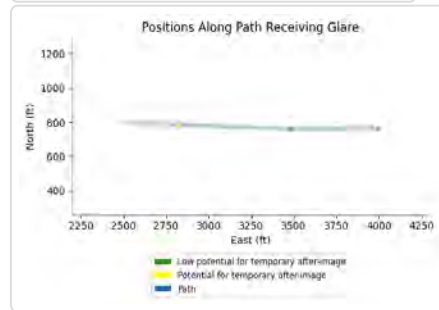
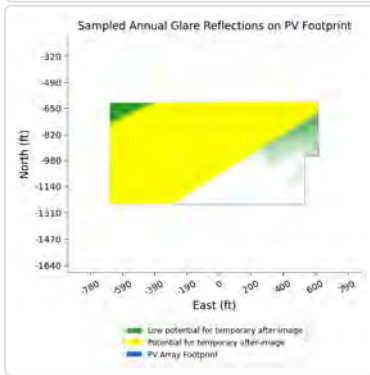
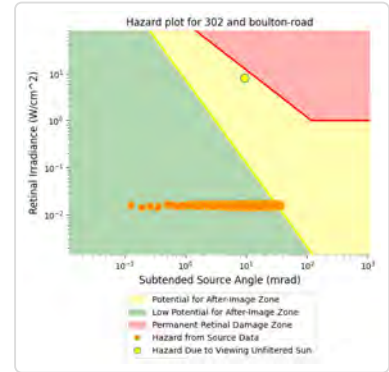
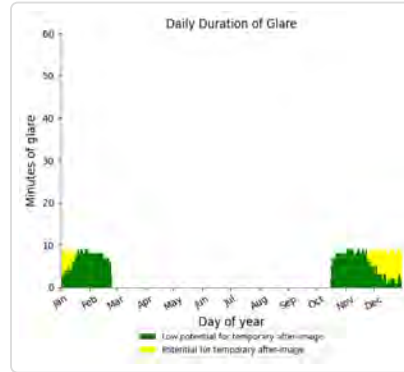
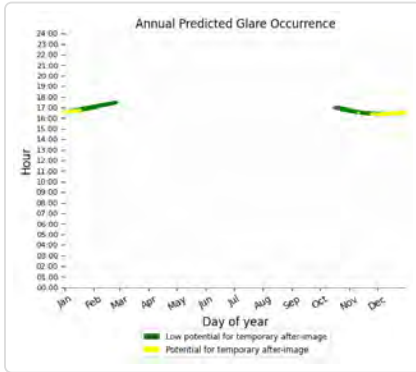
302: OP 11

No glare found

302: Boulton Road

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

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



302: Bourdant Road

No glare found

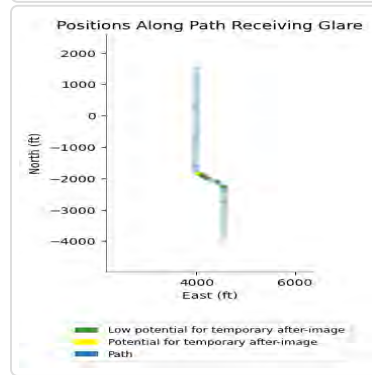
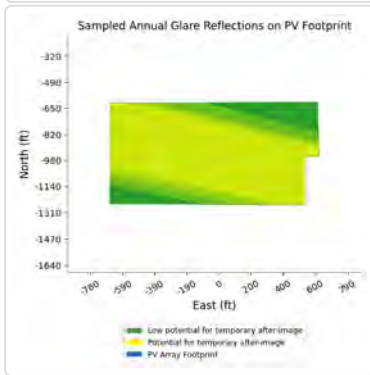
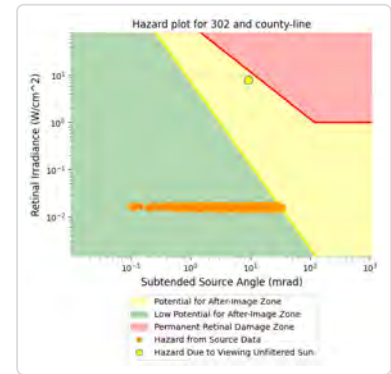
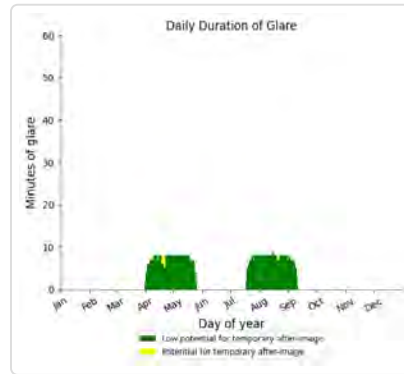
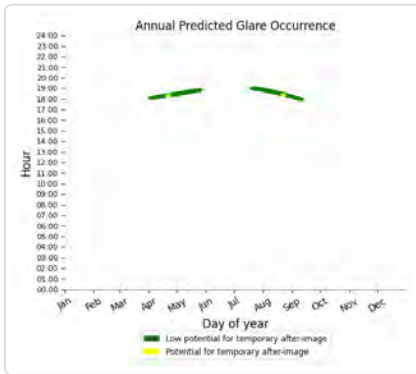
302: Buchanan Lane

No glare found

302: County Line Road

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

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



303 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	1308	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	400	0
OP: OP 3	453	0
OP: OP 4	117	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	1465	182
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	79	102

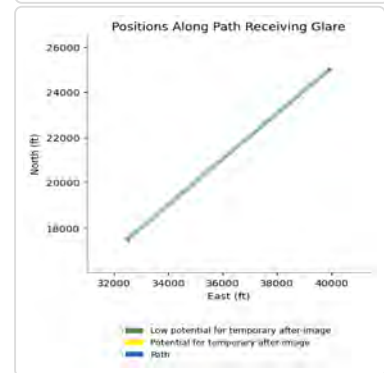
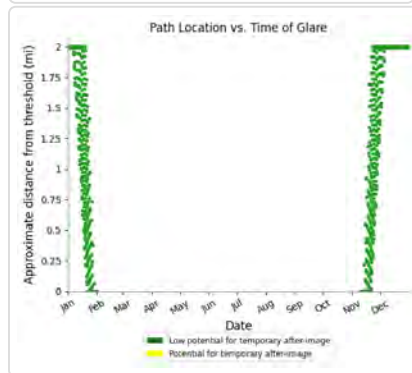
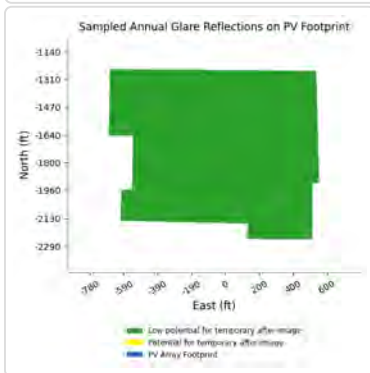
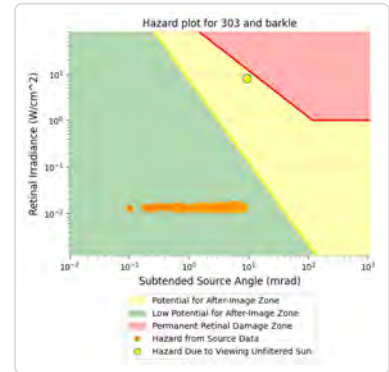
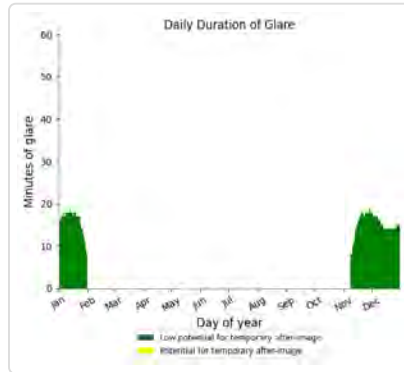
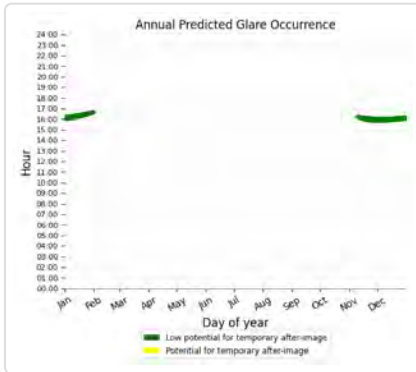
303: Barkley Regional Airport Runway 14

No glare found

303: Barkley Regional Airport Runway 23

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

- 1,308 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



303: Barkley Regional Airport Runway 32

No glare found

303: Barkley Regional Airport Runway 5

No glare found

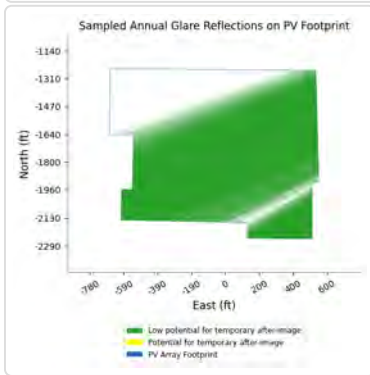
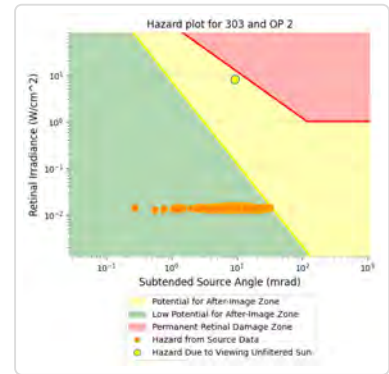
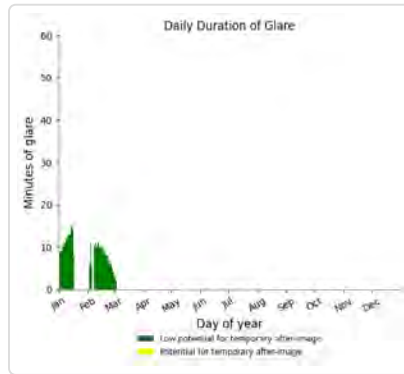
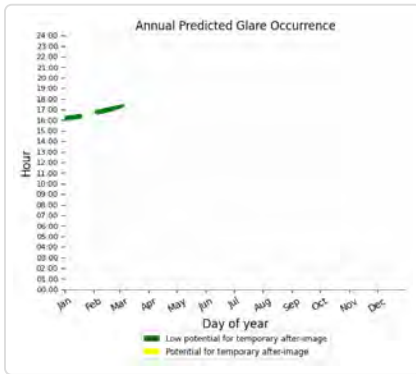
303: 1-ATCT

No glare found

303: OP 2

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

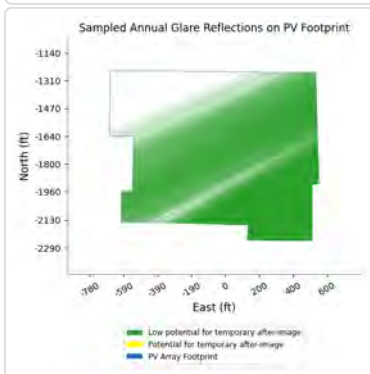
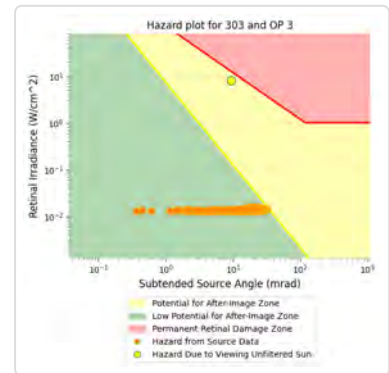
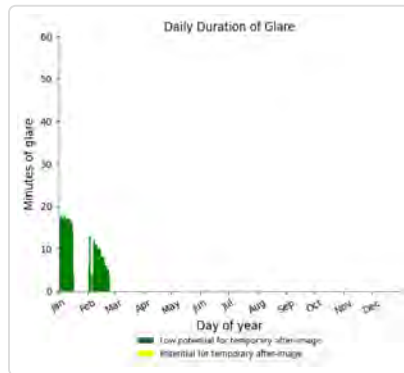
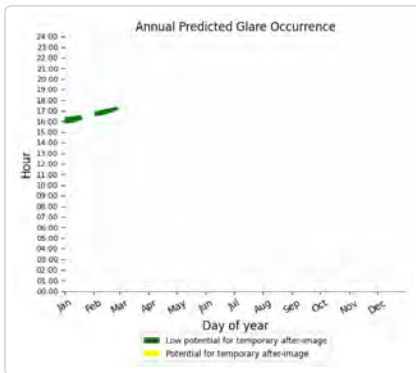
- 400 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



303: OP 3

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

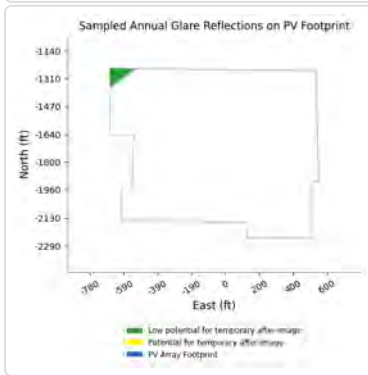
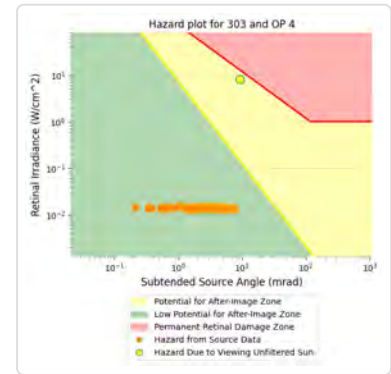
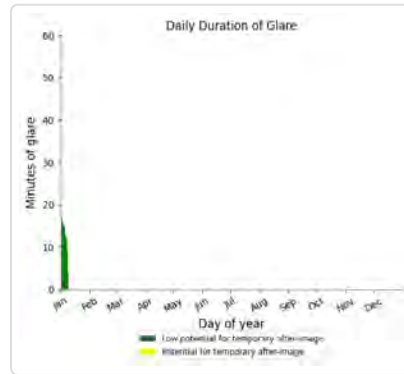
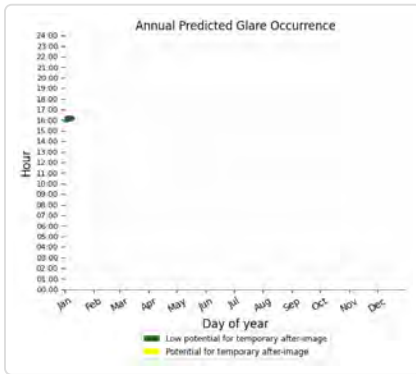
- 453 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



303: OP 4

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

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



303: OP 5

No glare found

303: OP 6

No glare found

303: OP 7

No glare found

303: OP 8

No glare found

303: OP 9

No glare found

303: OP 10

No glare found

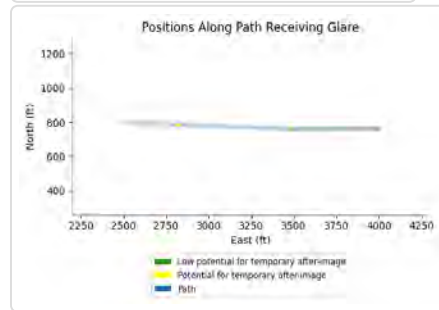
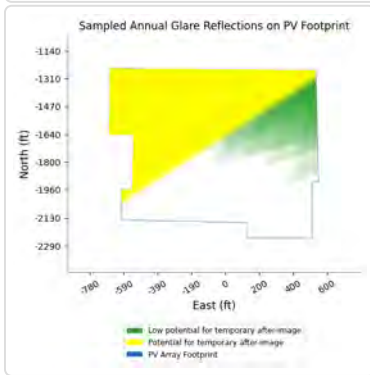
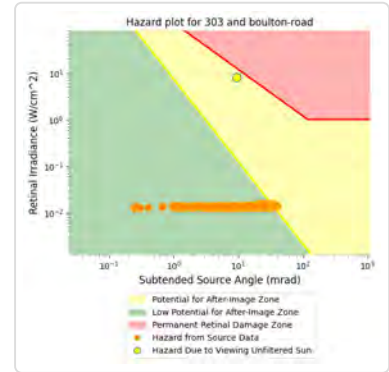
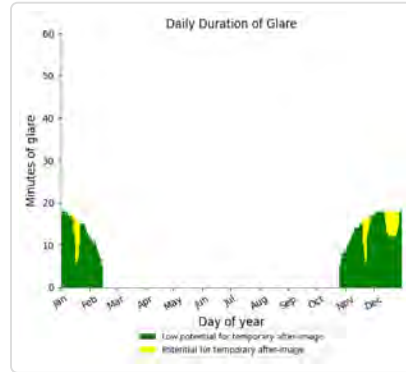
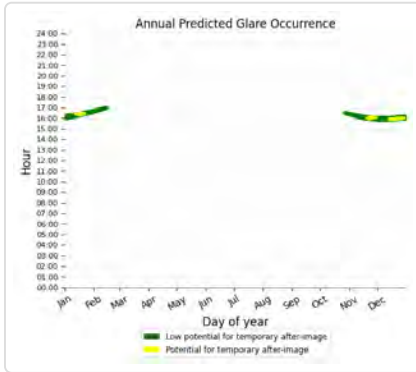
303: OP 11

No glare found

303: Boulton Road

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

- 1,465 minutes of "green" glare with low potential to cause temporary after-image.
- 182 minutes of "yellow" glare with potential to cause temporary after-image.



303: Bourdant Road

No glare found

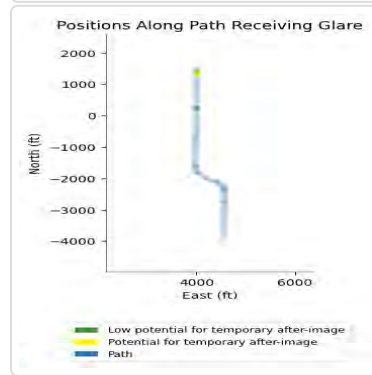
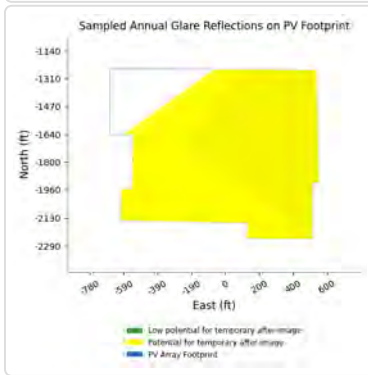
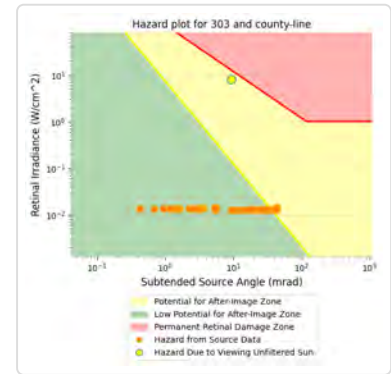
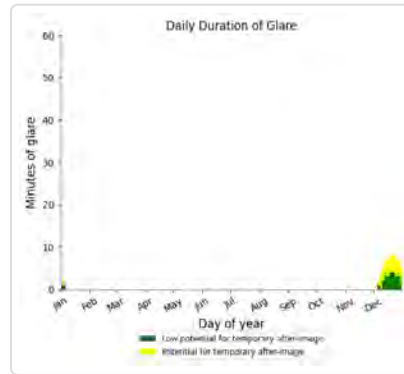
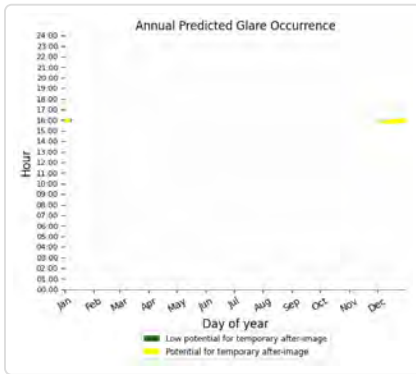
303: Buchanan Lane

No glare found

303: County Line Road

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

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



304 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	586	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	56	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	409	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	464	608
Route: Bourdant Road	1378	1013
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

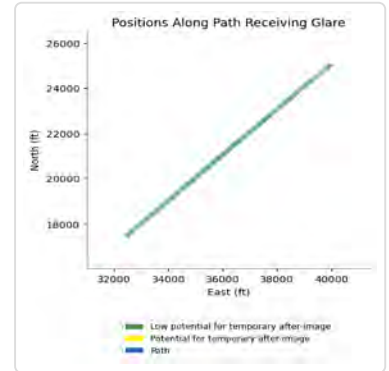
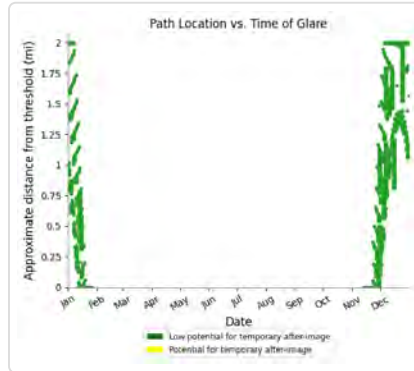
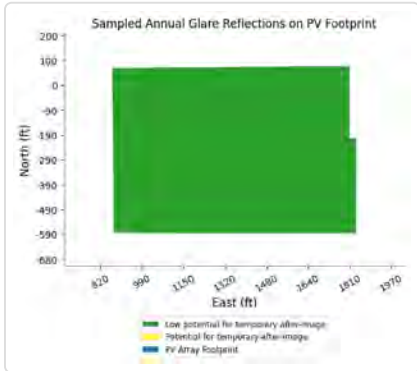
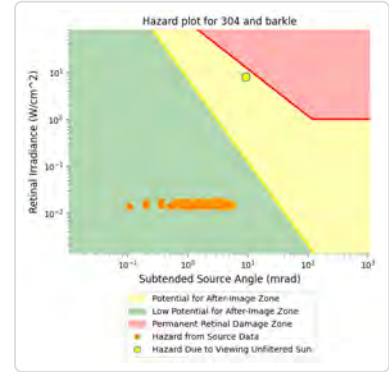
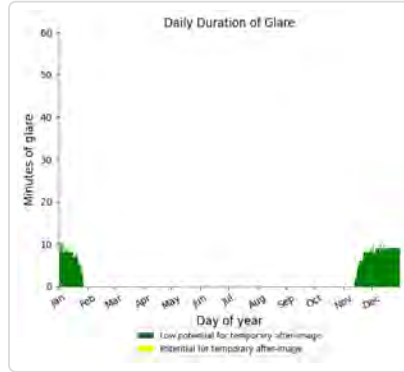
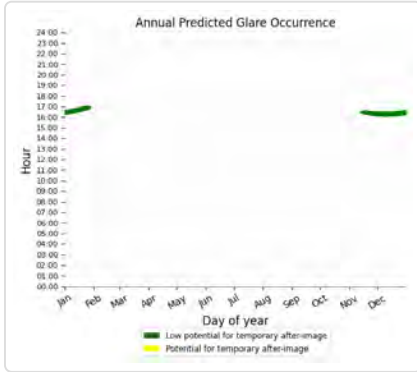
304: Barkley Regional Airport Runway 14

No glare found

304: Barkley Regional Airport Runway 23

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

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



304: Barkley Regional Airport Runway 32

No glare found

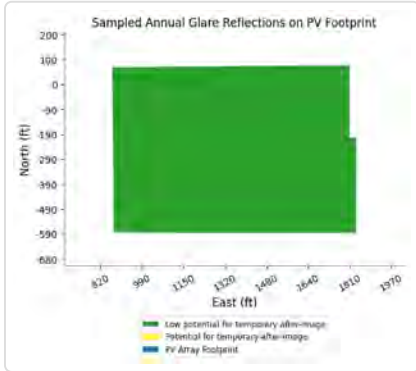
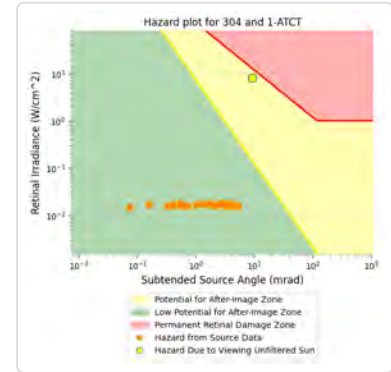
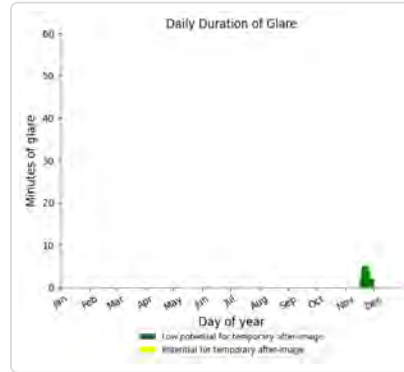
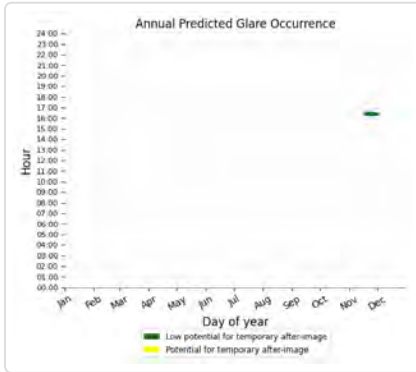
304: Barkley Regional Airport Runway 5

No glare found

304: 1-ATCT

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

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



304: OP 2

No glare found

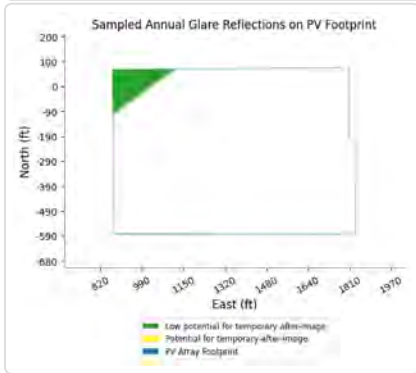
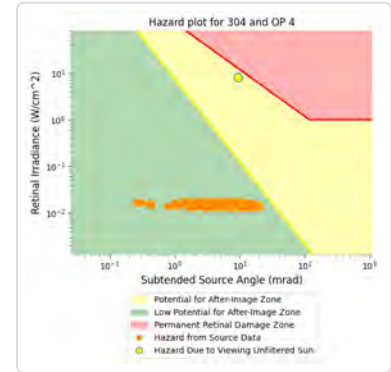
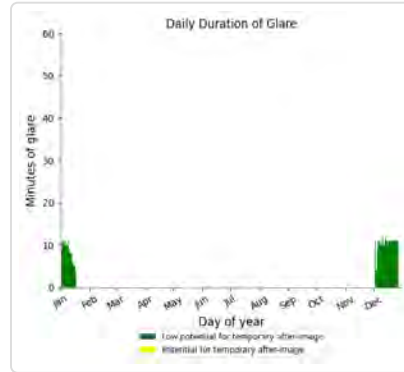
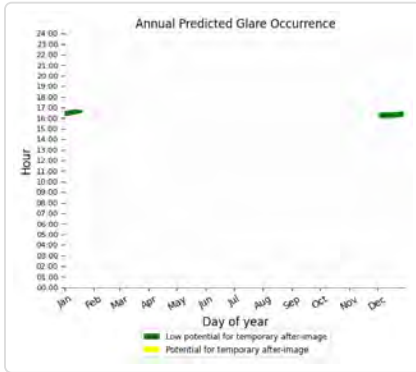
304: OP 3

No glare found

304: OP 4

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

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



304: OP 5

No glare found

304: OP 6

No glare found

304: OP 7

No glare found

304: OP 8

No glare found

304: OP 9

No glare found

304: OP 10

No glare found

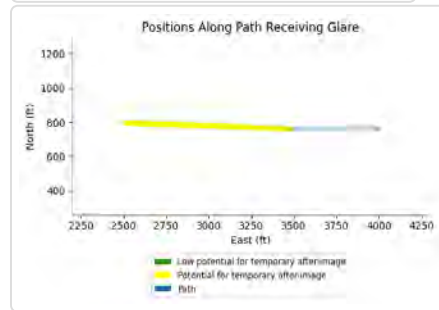
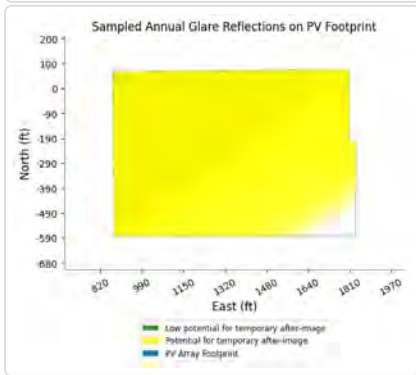
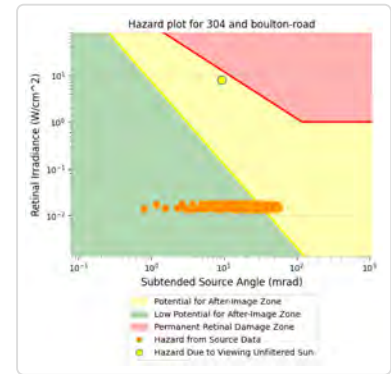
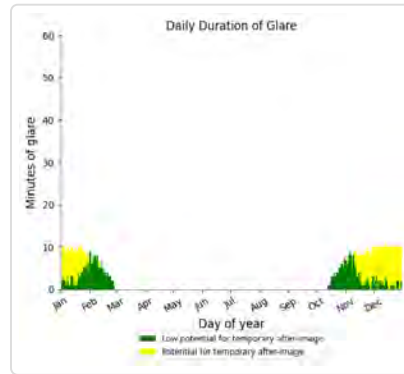
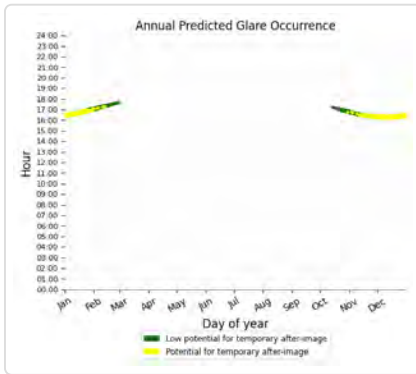
304: OP 11

No glare found

304: Boulton Road

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

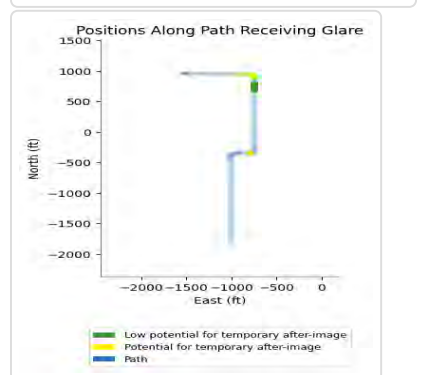
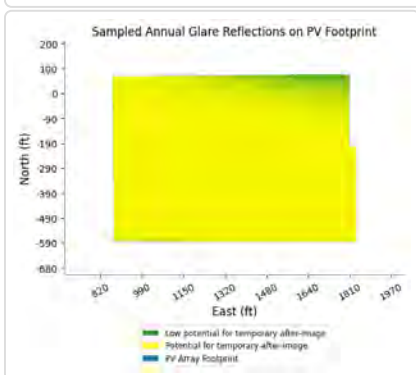
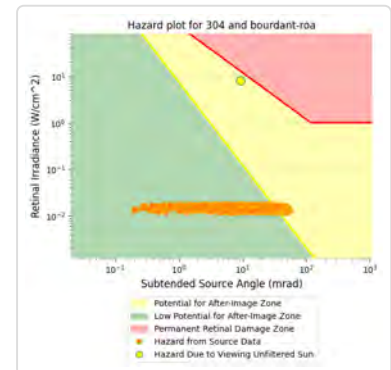
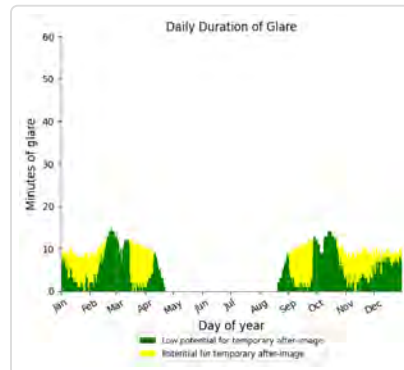
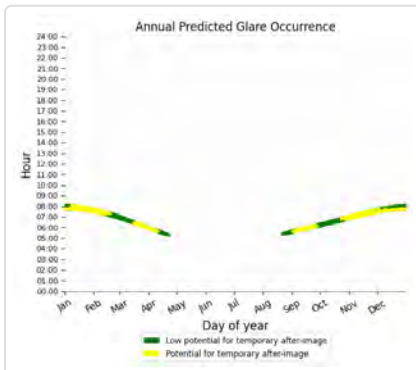
- 464 minutes of "green" glare with low potential to cause temporary after-image.
- 608 minutes of "yellow" glare with potential to cause temporary after-image.



304: Bourdant Road

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

- 1,378 minutes of "green" glare with low potential to cause temporary after-image.
- 1,013 minutes of "yellow" glare with potential to cause temporary after-image.



304: Buchanan Lane

No glare found

304: County Line Road

No glare found

305 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	200	189
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

305: Barkley Regional Airport Runway 14

No glare found

305: Barkley Regional Airport Runway 23

No glare found

305: Barkley Regional Airport Runway 32

No glare found

305: Barkley Regional Airport Runway 5

No glare found

305: 1-ATCT

No glare found

305: OP 2

No glare found

305: OP 3

No glare found

305: OP 4

No glare found

305: OP 5

No glare found

305: OP 6

No glare found

305: OP 7

No glare found

305: OP 8

No glare found

305: OP 9

No glare found

305: OP 10

No glare found

305: OP 11

No glare found

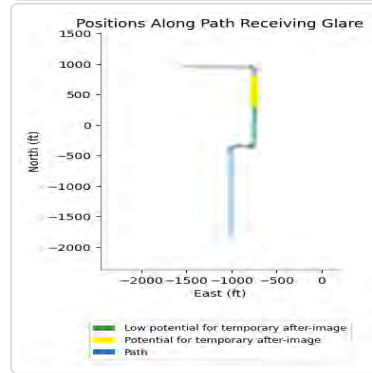
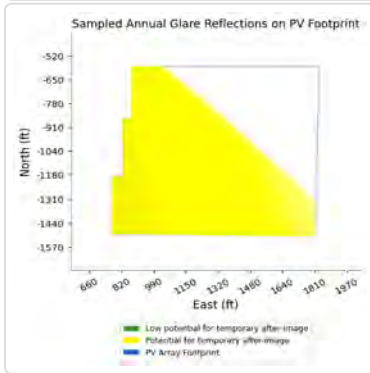
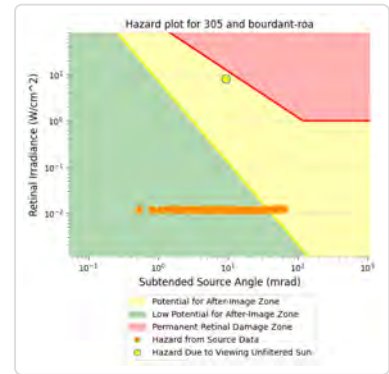
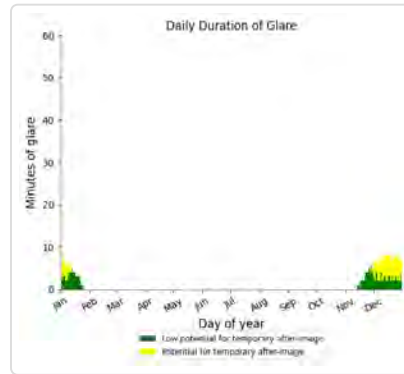
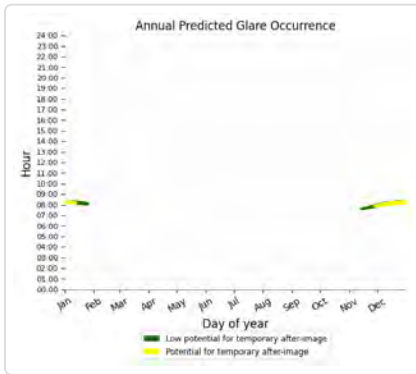
305: Boulton Road

No glare found

305: Bourdant Road

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

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



305: Buchanan Lane

No glare found

305: County Line Road

No glare found

306 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	552	0
OP: OP 6	455	0
OP: OP 7	804	0
OP: OP 8	591	0
OP: OP 9	226	0
OP: OP 10	181	0
OP: OP 11	206	0

Route: Boulton Road	0	0
Route: Bourdant Road	756	15
Route: Buchanan Lane	582	468
Route: County Line Road	0	0

306: Barkley Regional Airport Runway 14

No glare found

306: Barkley Regional Airport Runway 23

No glare found

306: Barkley Regional Airport Runway 32

No glare found

306: Barkley Regional Airport Runway 5

No glare found

306: 1-ATCT

No glare found

306: OP 2

No glare found

306: OP 3

No glare found

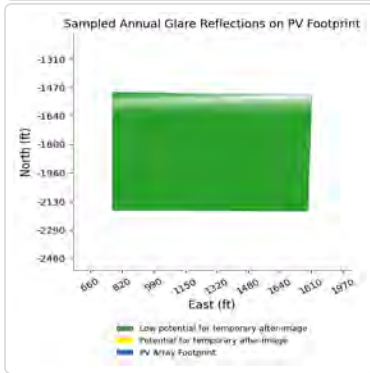
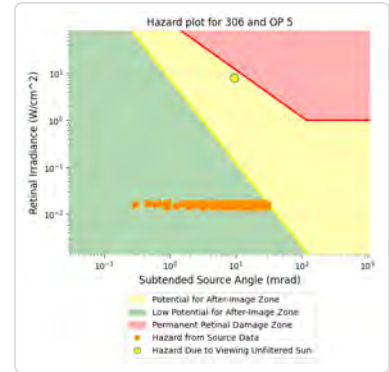
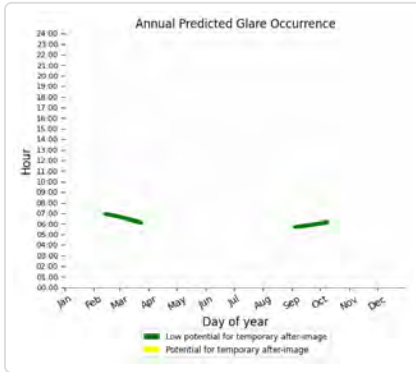
306: OP 4

No glare found

306: OP 5

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

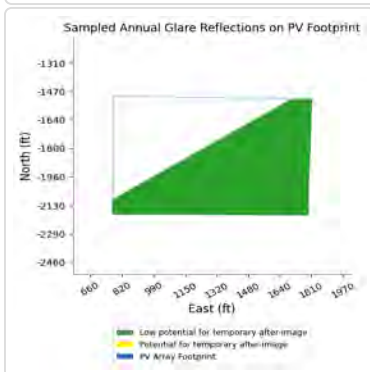
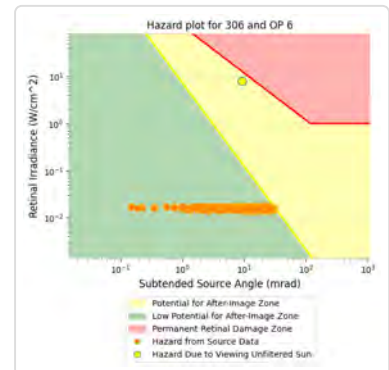
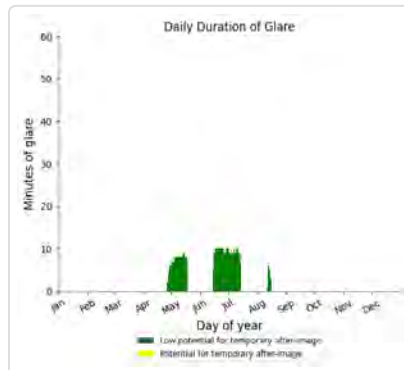
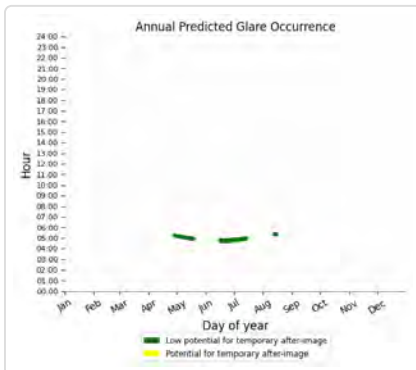
- 552 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 6

PV array is expected to produce the following glare for this receptor:

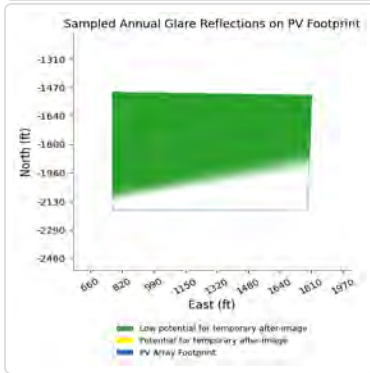
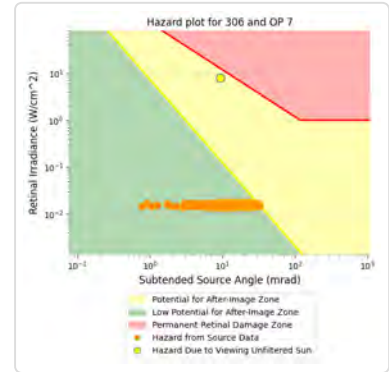
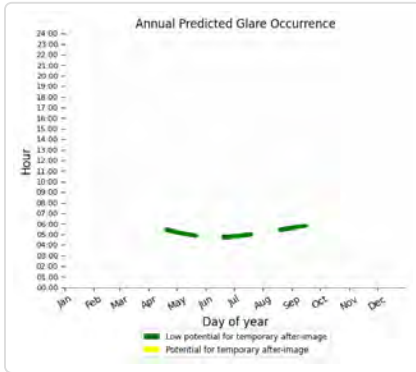
- 455 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 7

PV array is expected to produce the following glare for this receptor:

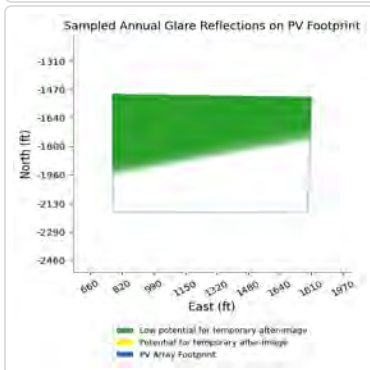
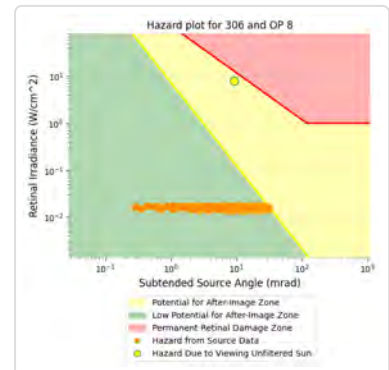
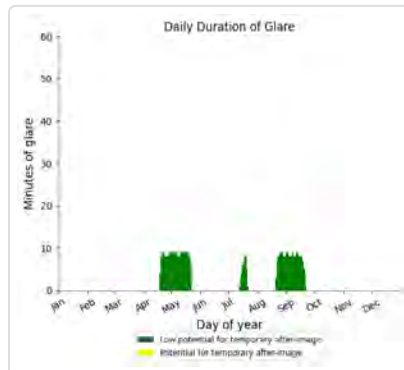
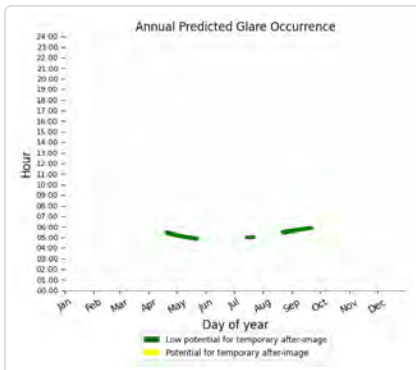
- 804 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 8

PV array is expected to produce the following glare for this receptor:

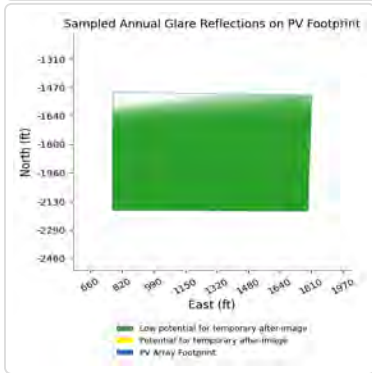
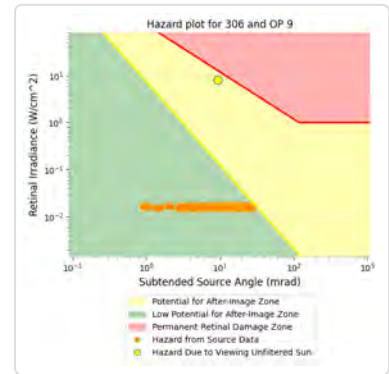
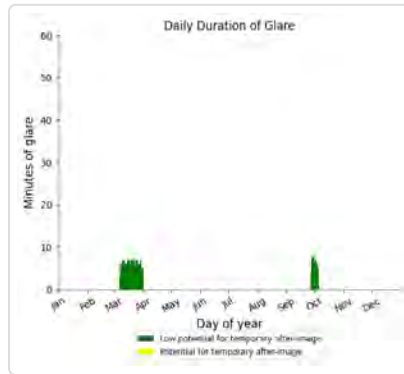
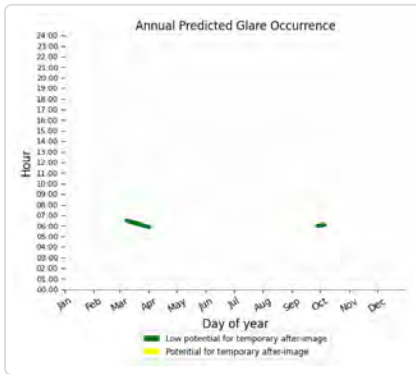
- 591 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 9

PV array is expected to produce the following glare for this receptor:

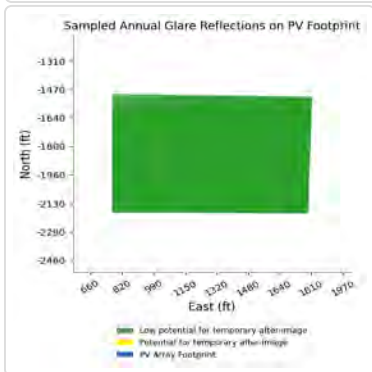
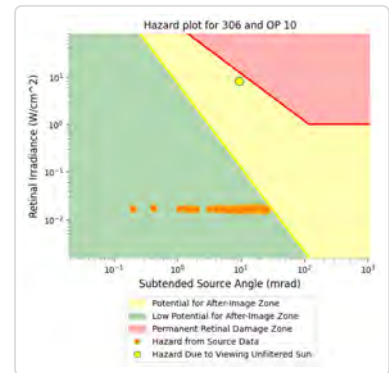
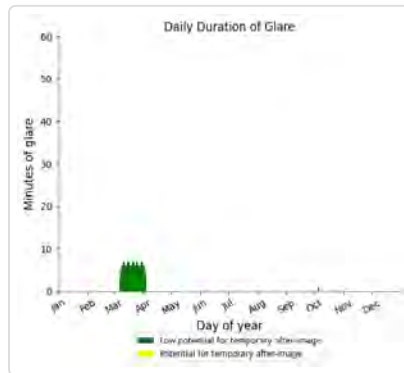
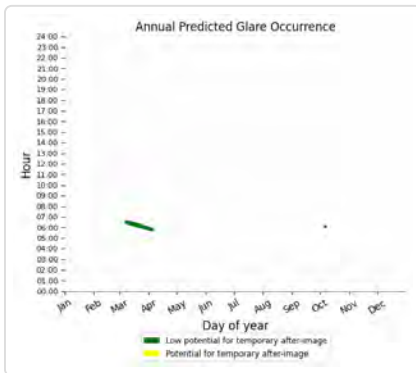
- 226 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 10

PV array is expected to produce the following glare for this receptor:

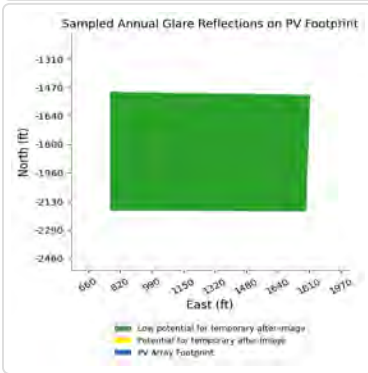
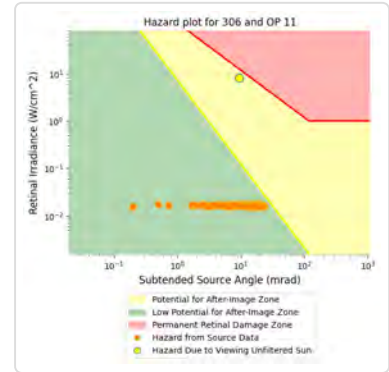
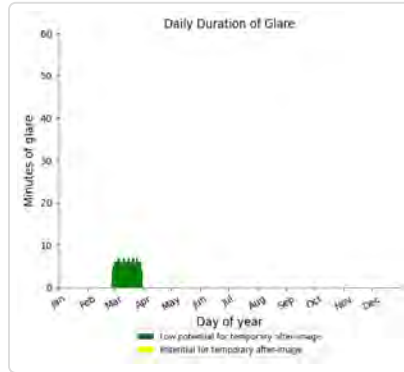
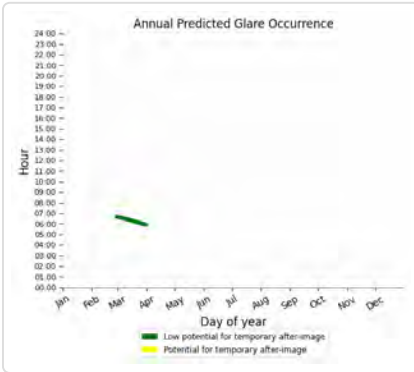
- 181 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



306: OP 11

PV array is expected to produce the following glare for this receptor:

- 206 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



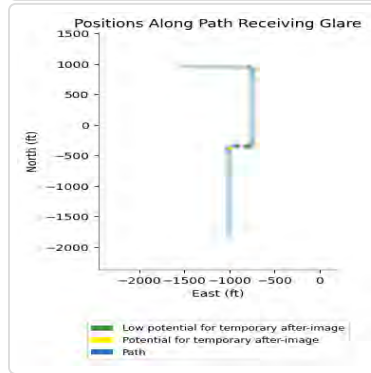
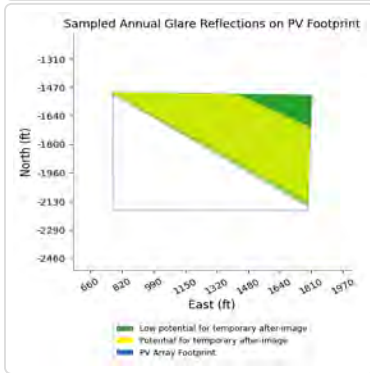
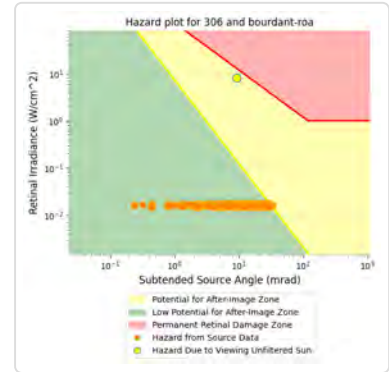
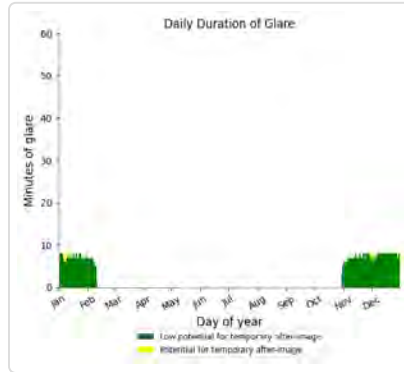
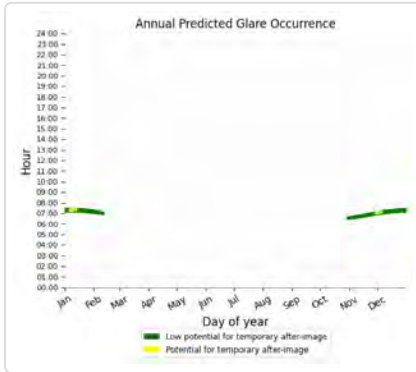
306: Boulton Road

No glare found

306: Bourdant Road

PV array is expected to produce the following glare for this receptor:

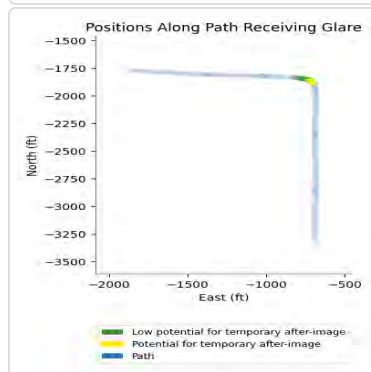
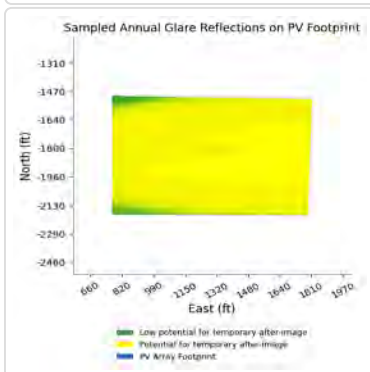
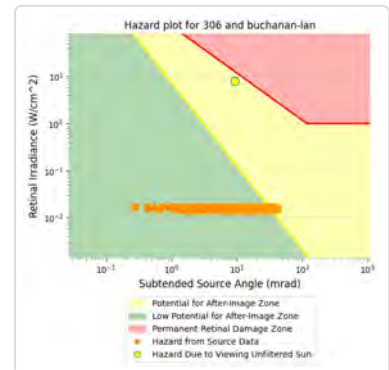
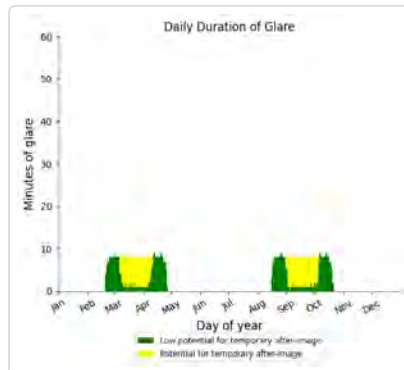
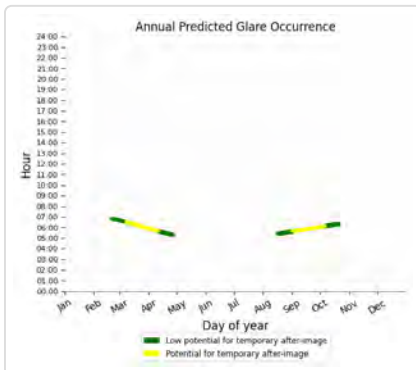
- 756 minutes of "green" glare with low potential to cause temporary after-image.
- 15 minutes of "yellow" glare with potential to cause temporary after-image.



306: Buchanan Lane

PV array is expected to produce the following glare for this receptor:

- 582 minutes of "green" glare with low potential to cause temporary after-image.
- 468 minutes of "yellow" glare with potential to cause temporary after-image.



306: County Line Road

No glare found

307 potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	90	110
OP: OP 3	0	0
OP: OP 4	58	0
OP: OP 5	572	0
OP: OP 6	0	0
OP: OP 7	231	0
OP: OP 8	320	0
OP: OP 9	568	0
OP: OP 10	591	0
OP: OP 11	728	0
Route: Boulton Road	288	369
Route: Bourdant Road	1139	424
Route: Buchanan Lane	1114	0
Route: County Line Road	0	0

307: Barkley Regional Airport Runway 14

No glare found

307: Barkley Regional Airport Runway 23

No glare found

307: Barkley Regional Airport Runway 32

No glare found

307: Barkley Regional Airport Runway 5

No glare found

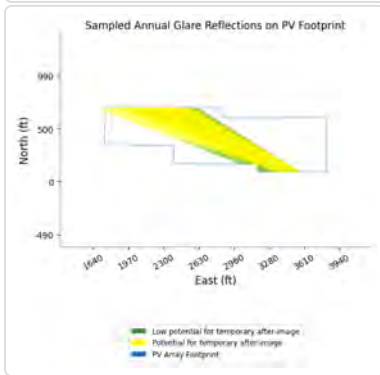
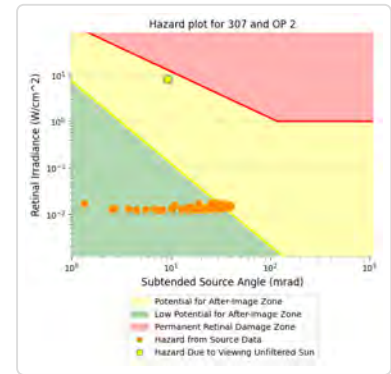
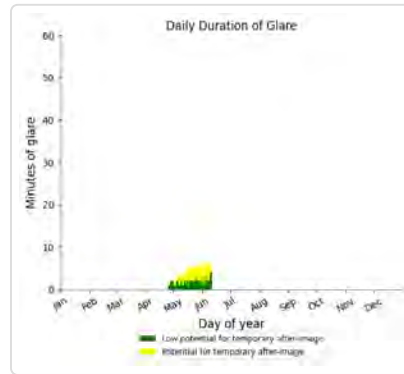
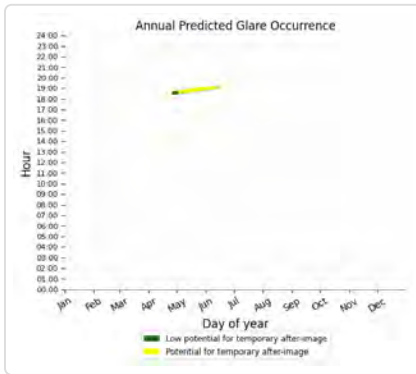
307: 1-ATCT

No glare found

307: OP 2

PV array is expected to produce the following glare for this receptor:

- 90 minutes of "green" glare with low potential to cause temporary after-image.
- 110 minutes of "yellow" glare with potential to cause temporary after-image.



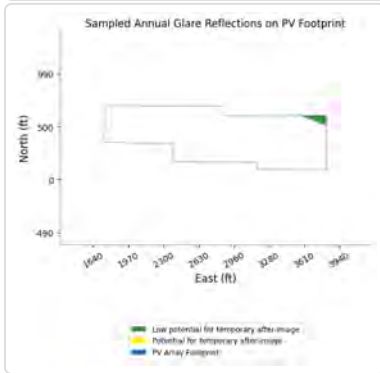
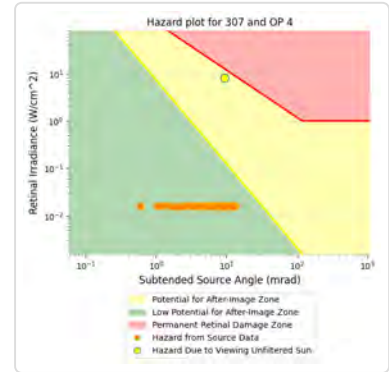
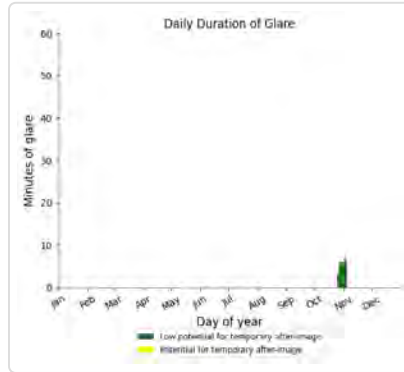
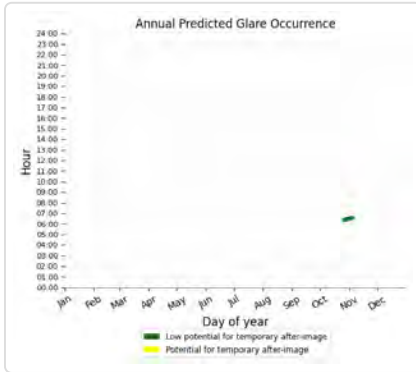
307: OP 3

No glare found

307: OP 4

PV array is expected to produce the following glare for this receptor:

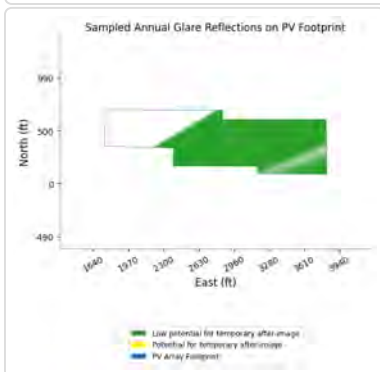
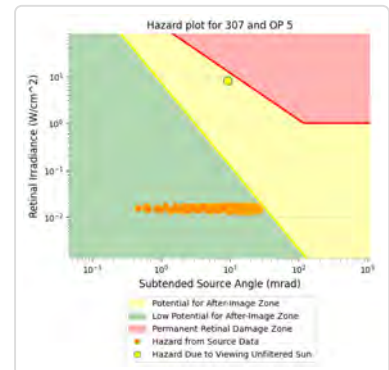
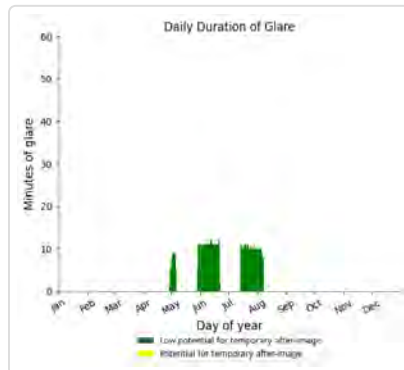
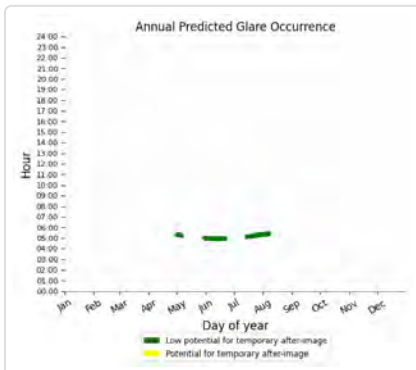
- 58 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: OP 5

PV array is expected to produce the following glare for this receptor:

- 572 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



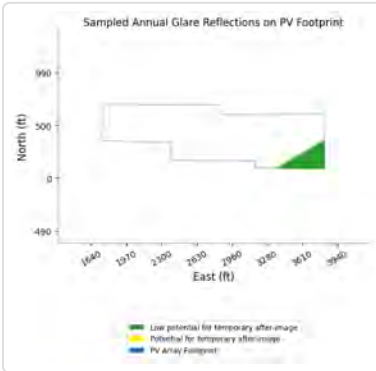
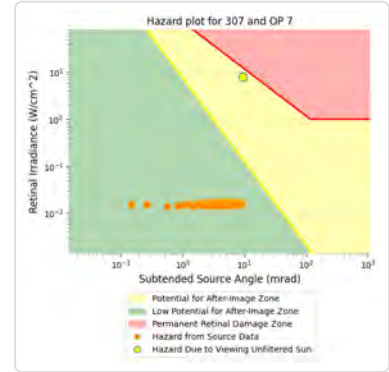
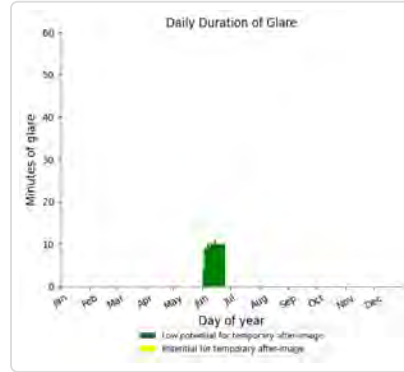
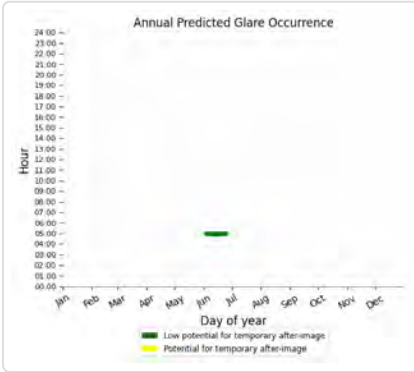
307: OP 6

No glare found

307: OP 7

PV array is expected to produce the following glare for this receptor:

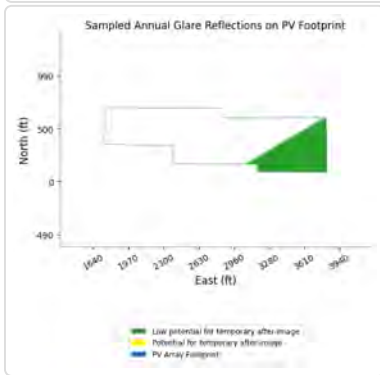
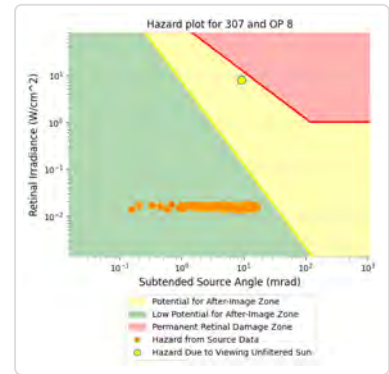
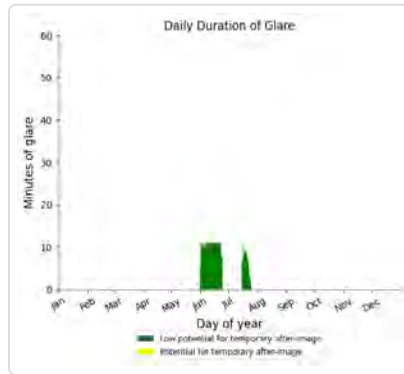
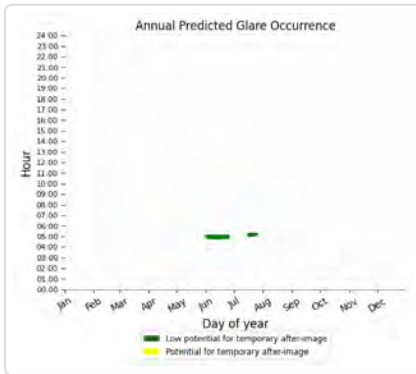
- 231 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: OP 8

PV array is expected to produce the following glare for this receptor:

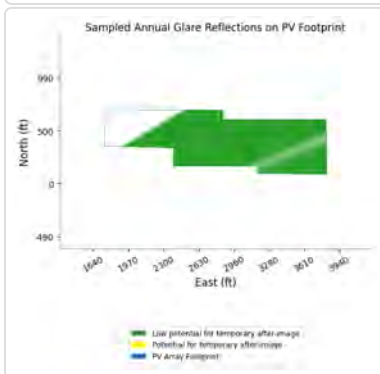
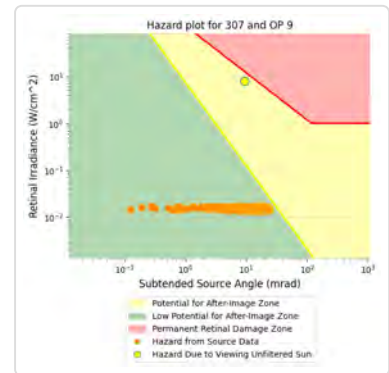
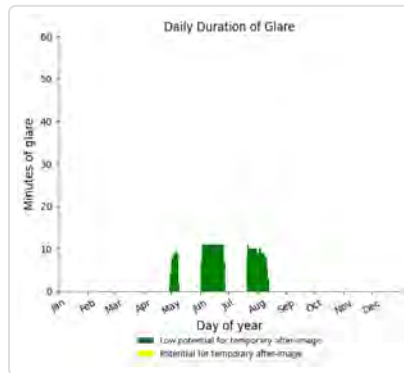
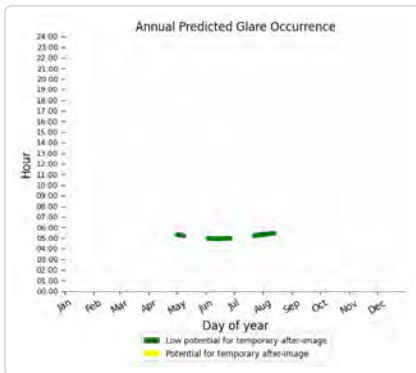
- 320 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: OP 9

PV array is expected to produce the following glare for this receptor:

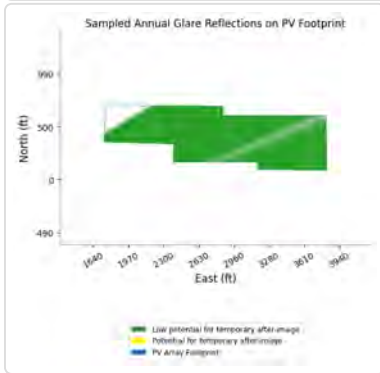
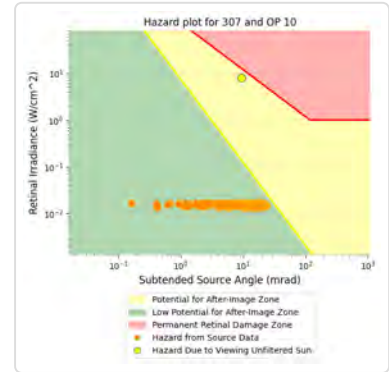
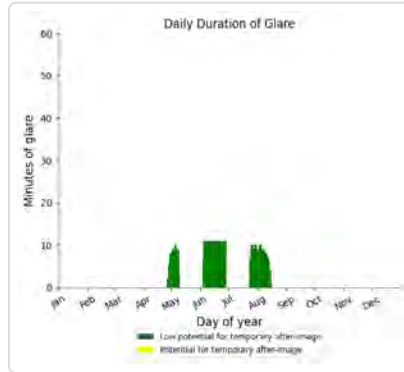
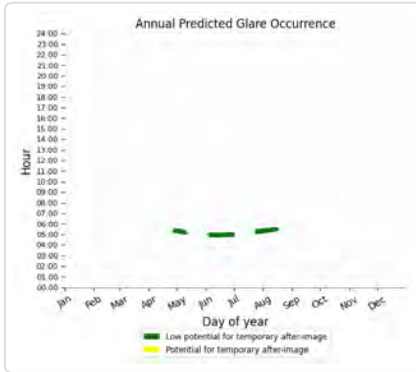
- 568 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: OP 10

PV array is expected to produce the following glare for this receptor:

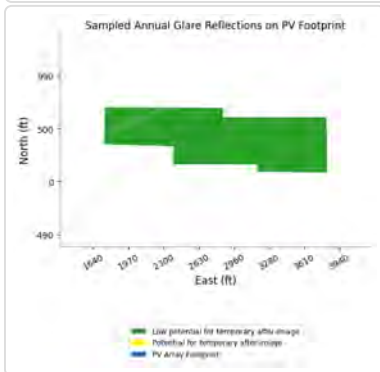
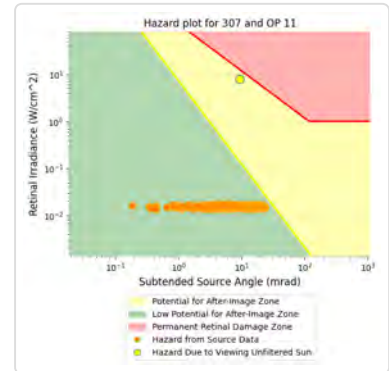
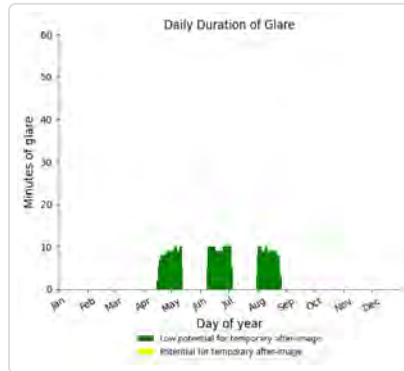
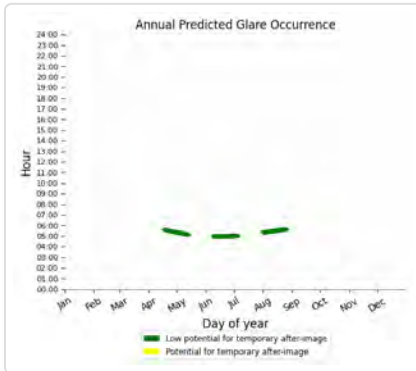
- 591 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: OP 11

PV array is expected to produce the following glare for this receptor:

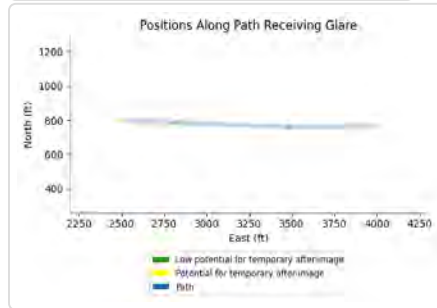
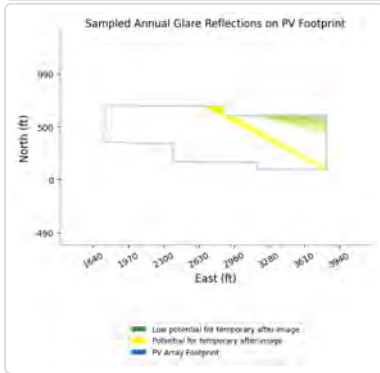
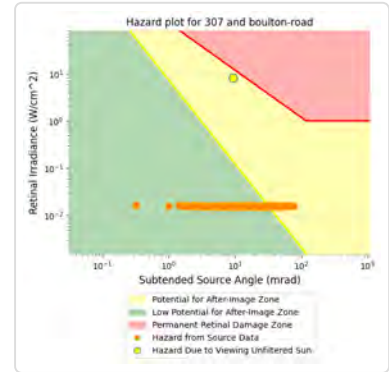
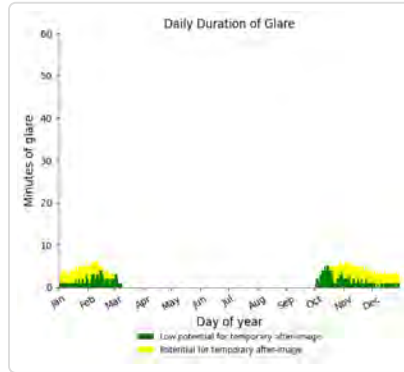
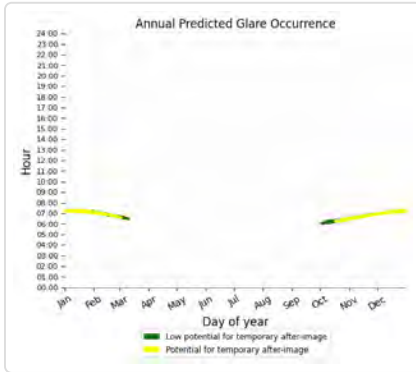
- 728 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: Boulton Road

PV array is expected to produce the following glare for this receptor:

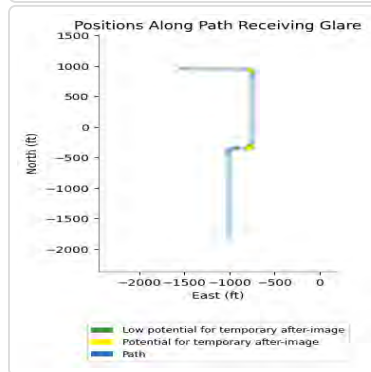
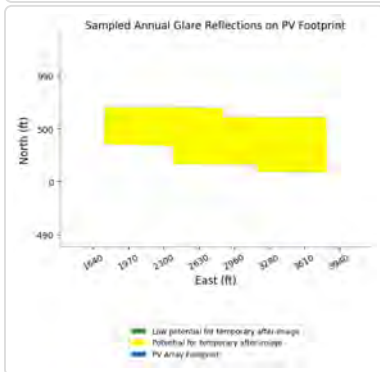
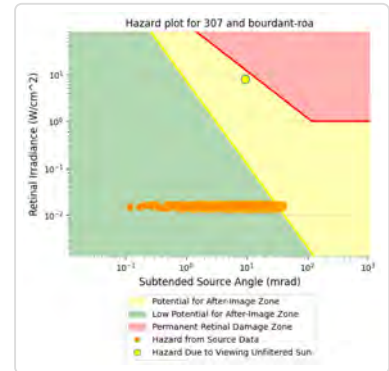
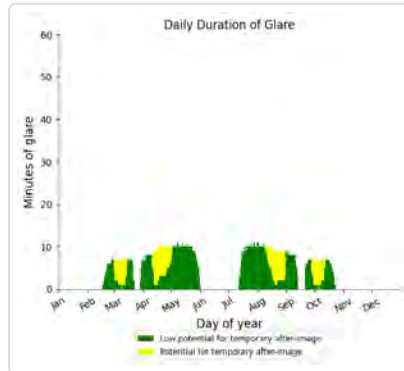
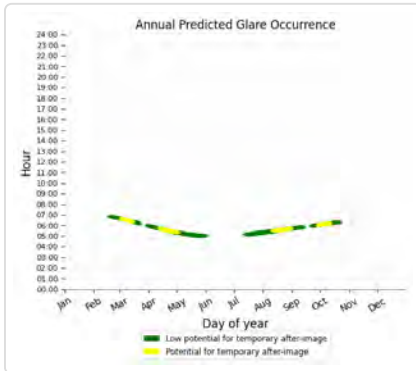
- 288 minutes of "green" glare with low potential to cause temporary after-image.
- 369 minutes of "yellow" glare with potential to cause temporary after-image.



307: Bourdant Road

PV array is expected to produce the following glare for this receptor:

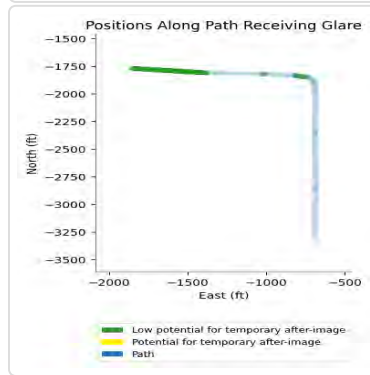
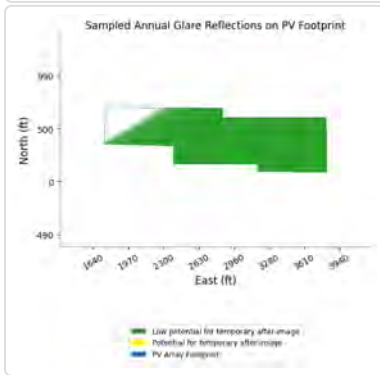
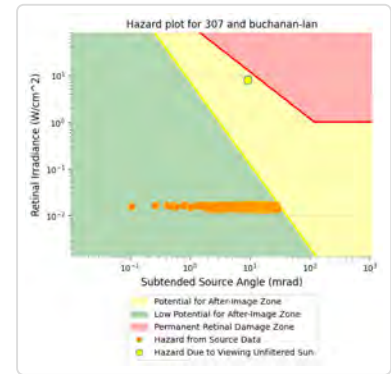
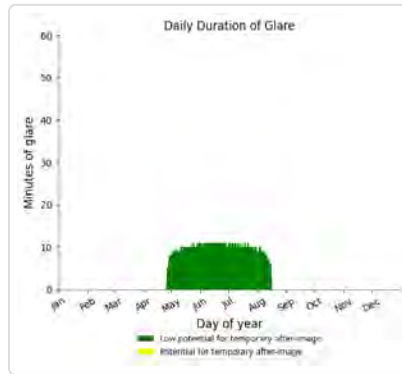
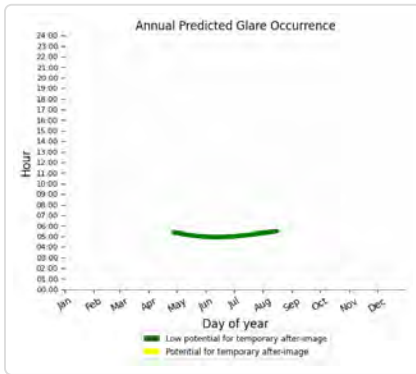
- 1,139 minutes of "green" glare with low potential to cause temporary after-image.
- 424 minutes of "yellow" glare with potential to cause temporary after-image.



307: Buchanan Lane

PV array is expected to produce the following glare for this receptor:

- 1,114 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



307: County Line Road

No glare found

308 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	66	0
OP: OP 6	0	0
OP: OP 7	87	0
OP: OP 8	87	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	247	0
Route: County Line Road	0	0

308: Barkley Regional Airport Runway 14

No glare found

308: Barkley Regional Airport Runway 23

No glare found

308: Barkley Regional Airport Runway 32

No glare found

308: Barkley Regional Airport Runway 5

No glare found

308: 1-ATCT

No glare found

308: OP 2

No glare found

308: OP 3

No glare found

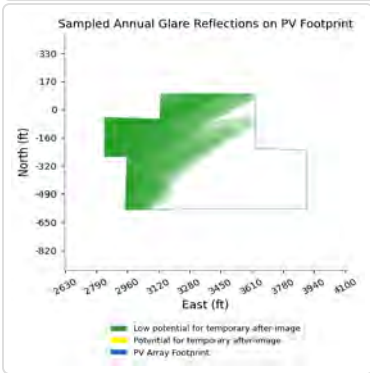
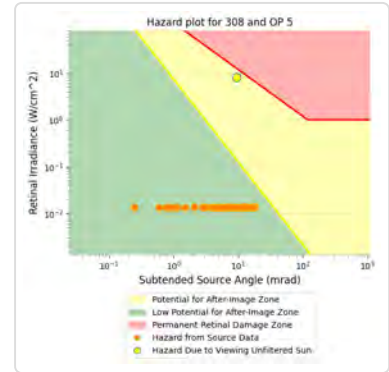
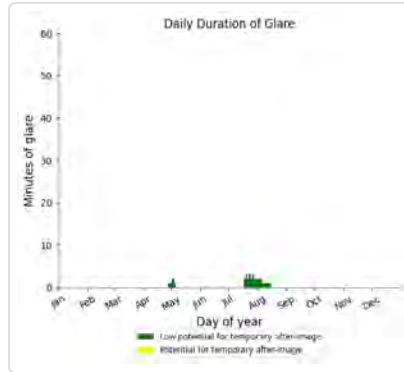
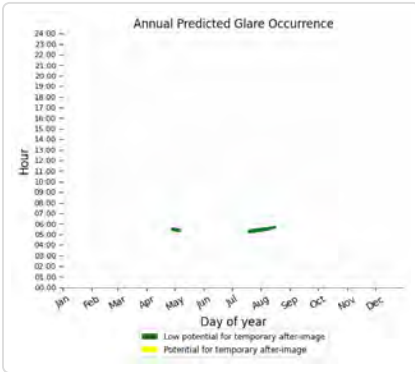
308: OP 4

No glare found

308: OP 5

PV array is expected to produce the following glare for this receptor:

- 66 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



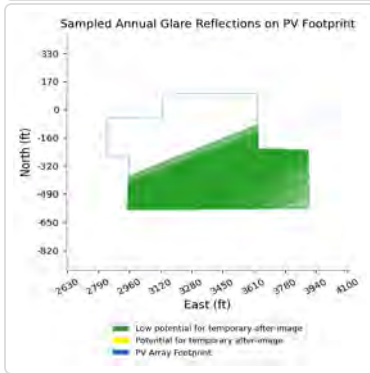
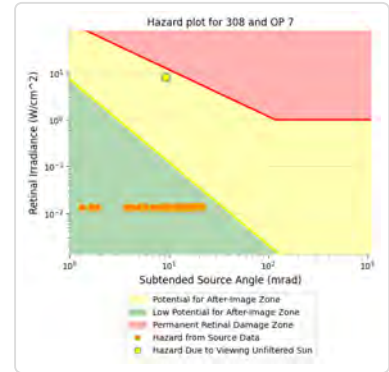
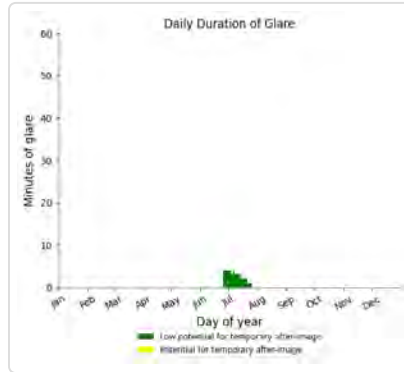
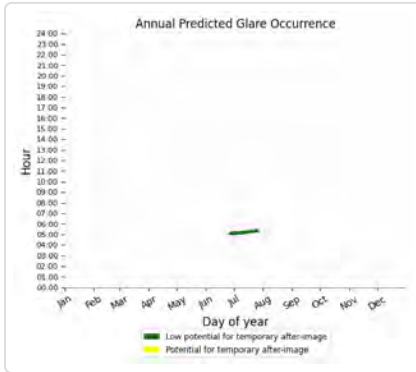
308: OP 6

No glare found

308: OP 7

PV array is expected to produce the following glare for this receptor:

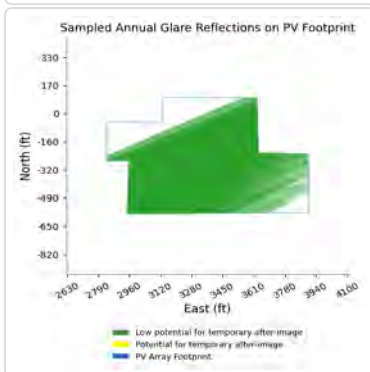
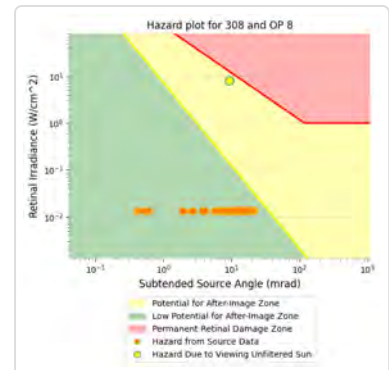
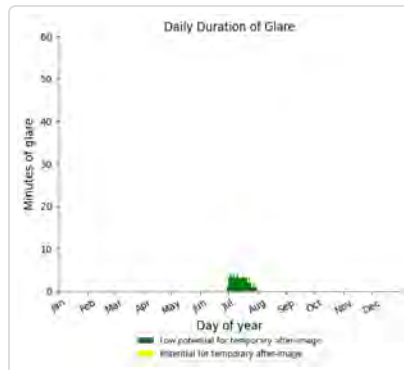
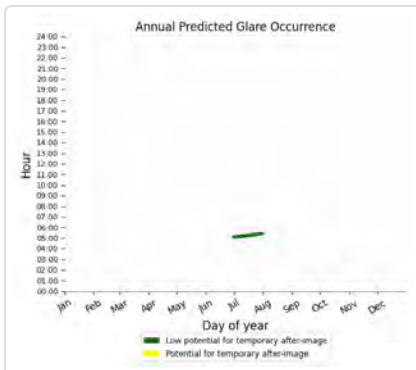
- 87 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



308: OP 8

PV array is expected to produce the following glare for this receptor:

- 87 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



308: OP 9

No glare found

308: OP 10

No glare found

308: OP 11

No glare found

308: Boulton Road

No glare found

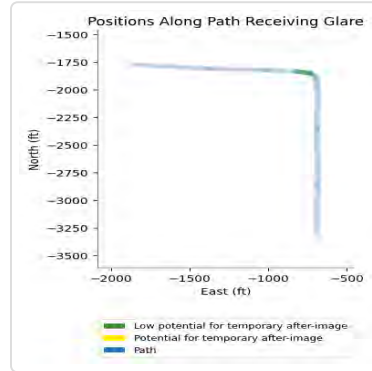
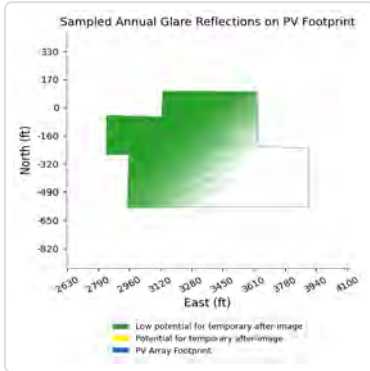
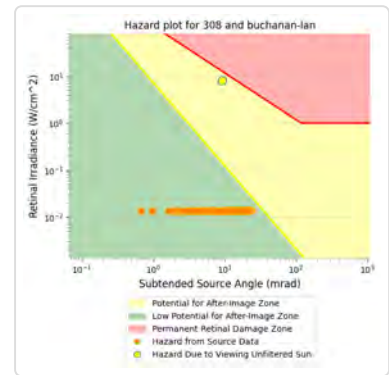
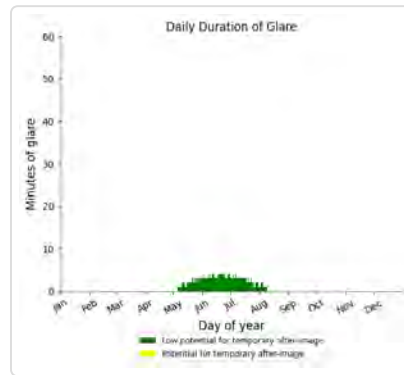
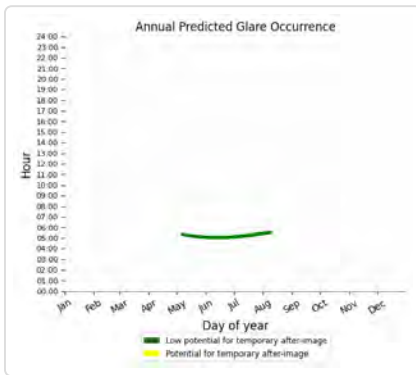
308: Bourdant Road

No glare found

308: Buchanan Lane

PV array is expected to produce the following glare for this receptor:

- 247 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



308: County Line Road

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.

- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 3 9ft vehicles 10 deg resting

Created Aug 18, 2023
Updated Aug 18, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 98062.17111

Project type Advanced
Project status: active
Category 100 MW to 1 GW



Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

PV Analysis Methodology: **Version 2**
 Enhanced subtended angle calculation: **On**

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	0	0	-
302	SA tracking	SA tracking	0	0	-
303	SA tracking	SA tracking	0	0	-
304	SA tracking	SA tracking	0	0	-
305	SA tracking	SA tracking	0	0	-
306	SA tracking	SA tracking	0	0	-
307	SA tracking	SA tracking	0	0	-
308	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 135.9 acres

Name: 301
Footprint area: 9.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 10.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018187	-88.877466	455.52	7.50	463.02
2	37.017240	-88.877439	457.96	7.50	465.46
3	37.017249	-88.877246	458.16	7.50	465.66
4	37.016478	-88.877241	464.21	7.50	471.71
5	37.016469	-88.879735	472.60	7.50	480.10
6	37.017292	-88.879735	467.89	7.50	475.39
7	37.017296	-88.879617	465.40	7.50	472.90
8	37.018182	-88.879612	465.20	7.50	472.70

Name: 302
Footprint area: 18.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 10.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016469	-88.879735	472.60	7.50	480.10
2	37.016482	-88.875401	442.92	7.50	450.42
3	37.015548	-88.875369	442.65	7.50	450.15
4	37.015544	-88.875666	444.06	7.50	451.56
5	37.014722	-88.875669	446.13	7.50	453.63
6	37.014741	-88.879751	473.41	7.50	480.91

Name: 303

Footprint area: 24.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014745	-88.879757	473.46	7.50	480.96
2	37.014715	-88.875669	446.13	7.50	453.63
3	37.012912	-88.875610	450.26	7.50	457.76
4	37.012895	-88.875744	451.80	7.50	459.30
5	37.011995	-88.875744	459.32	7.50	466.82
6	37.012004	-88.877032	468.12	7.50	475.62
7	37.012252	-88.877010	467.69	7.50	475.19
8	37.012299	-88.879537	471.96	7.50	479.46
9	37.012783	-88.879531	473.24	7.50	480.74
10	37.012779	-88.879317	470.24	7.50	477.74
11	37.013679	-88.879290	466.25	7.50	473.75
12	37.013674	-88.879773	472.44	7.50	479.94

Name: 304

Footprint area: 14.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018369	-88.874489	436.53	7.50	444.03
2	37.018394	-88.871292	440.66	7.50	448.16
3	37.017606	-88.871292	456.81	7.50	464.31
4	37.017606	-88.871200	456.89	7.50	464.39
5	37.016583	-88.871206	463.22	7.50	470.72
6	37.016587	-88.874467	442.04	7.50	449.54

Name: 305

Footprint area: 20.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016583	-88.871206	463.22	7.50	470.72
2	37.014017	-88.871270	469.80	7.50	477.30
3	37.014060	-88.874816	447.06	7.50	454.56
4	37.014916	-88.874811	448.26	7.50	455.76
5	37.014916	-88.874618	451.60	7.50	459.10
6	37.015795	-88.874628	442.20	7.50	449.70
7	37.015795	-88.874473	443.34	7.50	450.84
8	37.016583	-88.874467	442.06	7.50	449.56

Name: 306

Footprint area: 15.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014008	-88.871281	469.79	7.50	477.29
2	37.012179	-88.871351	462.33	7.50	469.83
3	37.012192	-88.874821	449.74	7.50	457.24
4	37.014056	-88.874816	447.06	7.50	454.56

Name: 307

Footprint area: 21.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.019144	-88.871490	438.71	7.50	446.21
2	37.020078	-88.871447	445.10	7.50	452.60
3	37.020069	-88.867714	462.10	7.50	469.60
4	37.019821	-88.867714	461.77	7.50	469.27
5	37.019825	-88.864414	472.93	7.50	480.43
6	37.018424	-88.864398	465.43	7.50	472.93
7	37.018442	-88.866592	452.03	7.50	459.53
8	37.018630	-88.866598	452.85	7.50	460.35
9	37.018639	-88.869285	443.10	7.50	450.60
10	37.019101	-88.869275	447.60	7.50	455.10

Name: 308

Footprint area: 12.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 10.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018437	-88.865047	461.43	7.50	468.93
2	37.017551	-88.865021	469.67	7.50	477.17
3	37.017534	-88.864119	465.31	7.50	472.81
4	37.016600	-88.864109	456.77	7.50	464.27
5	37.016583	-88.867392	446.71	7.50	454.21
6	37.017426	-88.867354	451.09	7.50	458.59
7	37.017426	-88.867762	447.21	7.50	454.71
8	37.018052	-88.867757	446.82	7.50	454.32
9	37.018030	-88.866764	457.33	7.50	464.83
10	37.018442	-88.866743	448.77	7.50	456.27

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Boulton Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020283	-88.863792	476.00	9.00	485.00
2	37.020275	-88.865530	461.77	9.00	470.77
3	37.020343	-88.867837	460.38	9.00	469.38
4	37.020369	-88.868910	463.76	9.00	472.76

Name: Bourdant Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020823	-88.882682	456.44	9.00	465.44
2	37.020788	-88.880139	446.36	9.00	455.36
3	37.020643	-88.879978	446.27	9.00	455.27
4	37.020411	-88.880010	448.87	9.00	457.87
5	37.017388	-88.880032	470.88	9.00	479.88
6	37.017242	-88.880107	471.16	9.00	480.16
7	37.017225	-88.880214	472.38	9.00	481.38
8	37.017242	-88.880643	472.91	9.00	481.91
9	37.017156	-88.880890	474.80	9.00	483.80
10	37.017045	-88.880912	475.67	9.00	484.67
11	37.013190	-88.880901	477.29	9.00	486.29

Name: Buchanan Lane
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.013327	-88.883819	461.63	9.00	470.63
2	37.013216	-88.882210	471.96	9.00	480.96
3	37.013190	-88.880965	477.19	9.00	486.19
4	37.013147	-88.880257	475.69	9.00	484.69
5	37.013104	-88.879978	477.05	9.00	486.05
6	37.013010	-88.879860	475.50	9.00	484.50
7	37.012804	-88.879817	475.61	9.00	484.61
8	37.011699	-88.879828	476.77	9.00	485.77
9	37.010346	-88.879817	477.06	9.00	486.06
10	37.009112	-88.879839	465.43	9.00	474.43

Name: County Line Road

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022331	-88.863760	480.66	9.00	489.66
2	37.018887	-88.863792	470.16	9.00	479.16
3	37.016180	-88.863803	460.48	9.00	469.48
4	37.013747	-88.863867	471.42	9.00	480.42
5	37.013207	-88.863685	474.48	9.00	483.48
6	37.012719	-88.863030	469.97	9.00	478.97
7	37.012376	-88.862344	467.86	9.00	476.86
8	37.011965	-88.861882	468.79	9.00	477.79
9	37.011614	-88.861829	466.72	9.00	475.72
10	37.010586	-88.861818	471.69	9.00	480.69
11	37.007467	-88.861882	479.34	9.00	488.34

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.017953	-88.864287	473.68	16.00	489.68
OP 3	37.019105	-88.863536	476.70	16.00	492.70
OP 4	37.021135	-88.869099	475.47	16.00	491.47
OP 5	37.013648	-88.881298	478.37	16.00	494.37
OP 6	37.009647	-88.880273	483.41	16.00	499.41
OP 7	37.011618	-88.880112	477.91	16.00	493.91
OP 8	37.011956	-88.880853	478.71	16.00	494.71
OP 9	37.012890	-88.883905	470.20	16.00	486.20
OP 10	37.012946	-88.884870	465.73	16.00	481.73
OP 11	37.013879	-88.887424	460.77	16.00	476.77

1-ATCT map image



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	
301	SA tracking	SA tracking	0	0	-	-
302	SA tracking	SA tracking	0	0	-	-
303	SA tracking	SA tracking	0	0	-	-
304	SA tracking	SA tracking	0	0	-	-
305	SA tracking	SA tracking	0	0	-	-
306	SA tracking	SA tracking	0	0	-	-
307	SA tracking	SA tracking	0	0	-	-
308	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

301 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

302 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

303 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

304 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

305 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

306 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

307 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

308 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Song Sparrow Solar

Block 3 9ft vehicles 60 deg resting

Created Aug 18, 2023
 Updated Aug 18, 2023
 Time-step 1 minute
 Timezone offset UTC-6
 Minimum sun altitude 0.0 deg
 Site ID 98010.17111

Project type Advanced
 Project status: active
 Category 100 MW to 1 GW



Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

PV Analysis Methodology: **Version 2**
 Enhanced subtended angle calculation: **On**

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	0	0	-
302	SA tracking	SA tracking	0	0	-
303	SA tracking	SA tracking	0	0	-
304	SA tracking	SA tracking	0	0	-
305	SA tracking	SA tracking	0	0	-
306	SA tracking	SA tracking	0	0	-
307	SA tracking	SA tracking	0	0	-
308	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 135.9 acres

Name: 301
Footprint area: 9.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018187	-88.877466	455.52	7.50	463.02
2	37.017240	-88.877439	457.96	7.50	465.46
3	37.017249	-88.877246	458.16	7.50	465.66
4	37.016478	-88.877241	464.21	7.50	471.71
5	37.016469	-88.879735	472.60	7.50	480.10
6	37.017292	-88.879735	467.89	7.50	475.39
7	37.017296	-88.879617	465.40	7.50	472.90
8	37.018182	-88.879612	465.20	7.50	472.70

Name: 302
Footprint area: 18.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.3
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016469	-88.879735	472.60	7.50	480.10
2	37.016482	-88.875401	442.92	7.50	450.42
3	37.015548	-88.875369	442.65	7.50	450.15
4	37.015544	-88.875666	444.06	7.50	451.56
5	37.014722	-88.875669	446.13	7.50	453.63
6	37.014741	-88.879751	473.41	7.50	480.91

Name: 303

Footprint area: 24.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014745	-88.879757	473.46	7.50	480.96
2	37.014715	-88.875669	446.13	7.50	453.63
3	37.012912	-88.875610	450.26	7.50	457.76
4	37.012895	-88.875744	451.80	7.50	459.30
5	37.011995	-88.875744	459.32	7.50	466.82
6	37.012004	-88.877032	468.12	7.50	475.62
7	37.012252	-88.877010	467.69	7.50	475.19
8	37.012299	-88.879537	471.96	7.50	479.46
9	37.012783	-88.879531	473.24	7.50	480.74
10	37.012779	-88.879317	470.24	7.50	477.74
11	37.013679	-88.879290	466.25	7.50	473.75
12	37.013674	-88.879773	472.44	7.50	479.94

Name: 304

Footprint area: 14.0 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018369	-88.874489	436.53	7.50	444.03
2	37.018394	-88.871292	440.66	7.50	448.16
3	37.017606	-88.871292	456.81	7.50	464.31
4	37.017606	-88.871200	456.89	7.50	464.39
5	37.016583	-88.871206	463.22	7.50	470.72
6	37.016587	-88.874467	442.04	7.50	449.54

Name: 305

Footprint area: 20.7 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.29

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.016583	-88.871206	463.22	7.50	470.72
2	37.014017	-88.871270	469.80	7.50	477.30
3	37.014060	-88.874816	447.06	7.50	454.56
4	37.014916	-88.874811	448.26	7.50	455.76
5	37.014916	-88.874618	451.60	7.50	459.10
6	37.015795	-88.874628	442.20	7.50	449.70
7	37.015795	-88.874473	443.34	7.50	450.84
8	37.016583	-88.874467	442.06	7.50	449.56

Name: 306

Footprint area: 15.8 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

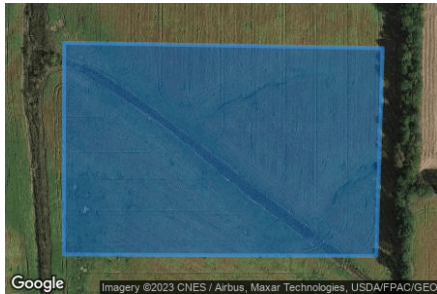
Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014008	-88.871281	469.79	7.50	477.29
2	37.012179	-88.871351	462.33	7.50	469.83
3	37.012192	-88.874821	449.74	7.50	457.24
4	37.014056	-88.874816	447.06	7.50	454.56

Name: 307

Footprint area: 21.2 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.019144	-88.871490	438.71	7.50	446.21
2	37.020078	-88.871447	445.10	7.50	452.60
3	37.020069	-88.867714	462.10	7.50	469.60
4	37.019821	-88.867714	461.77	7.50	469.27
5	37.019825	-88.864414	472.93	7.50	480.43
6	37.018424	-88.864398	465.43	7.50	472.93
7	37.018442	-88.866592	452.03	7.50	459.53
8	37.018630	-88.866598	452.85	7.50	460.35
9	37.018639	-88.869285	443.10	7.50	450.60
10	37.019101	-88.869275	447.60	7.50	455.10

Name: 308

Footprint area: 12.6 acres

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0 deg

Maximum tracking angle: 60.0 deg

Resting angle: 60.0 deg

Ground Coverage Ratio: 0.3

Rated power: -

Panel material: Smooth glass with AR coating

Vary reflectivity with sun position? Yes

Correlate slope error with surface type? Yes

Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018437	-88.865047	461.43	7.50	468.93
2	37.017551	-88.865021	469.67	7.50	477.17
3	37.017534	-88.864119	465.31	7.50	472.81
4	37.016600	-88.864109	456.77	7.50	464.27
5	37.016583	-88.867392	446.71	7.50	454.21
6	37.017426	-88.867354	451.09	7.50	458.59
7	37.017426	-88.867762	447.21	7.50	454.71
8	37.018052	-88.867757	446.82	7.50	454.32
9	37.018030	-88.866764	457.33	7.50	464.83
10	37.018442	-88.866743	448.77	7.50	456.27

2-Mile Flight Path Receptor(s)

Name: Barkley Regional Airport Runway 14

Description:

Threshold height : 50 ft

Direction: 142.6 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
Threshold	37.066192	-88.777839	391.20	50.00	441.20
2-mile point	37.089158	-88.799878	420.55	574.08	994.63

Name: Barkley Regional Airport Runway 23

Description:

Threshold height : 50 ft

Direction: 224.5 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
Threshold	37.066342	-88.766155	381.15	50.00	431.15
2-mile point	37.086954	-88.740715	365.91	618.67	984.58

Name: Barkley Regional Airport Runway 32

Description:

Threshold height : 50 ft

Direction: 323.3 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg



Point	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
Threshold	37.055028	-88.765919	410.71	50.00	460.71
2-mile point	37.031835	-88.744263	376.64	637.50	1014.14

Name: Barkley Regional Airport Runway 5

Description:

Threshold height : 50 ft

Direction: 45.4 deg

Glide slope: 3.0 deg

Pilot view restricted? Yes

Vertical view restriction: 30.0 deg

Azimuthal view restriction: 50.0 deg

Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.053534	-88.781433	410.75	50.00	460.75
2-mile point	37.033215	-88.807237	444.88	569.30	1014.17



Route Receptor(s)

Name: Boulton Road
Route type: Two-way
View angle: 50.0 deg



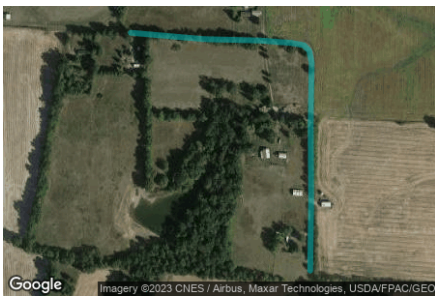
Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020283	-88.863792	476.00	9.00	485.00
2	37.020275	-88.865530	461.77	9.00	470.77
3	37.020343	-88.867837	460.38	9.00	469.38
4	37.020369	-88.868910	463.76	9.00	472.76

Name: Bourdant Road
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.020823	-88.882682	456.44	9.00	465.44
2	37.020788	-88.880139	446.36	9.00	455.36
3	37.020643	-88.879978	446.27	9.00	455.27
4	37.020411	-88.880010	448.87	9.00	457.87
5	37.017388	-88.880032	470.88	9.00	479.88
6	37.017242	-88.880107	471.16	9.00	480.16
7	37.017225	-88.880214	472.38	9.00	481.38
8	37.017242	-88.880643	472.91	9.00	481.91
9	37.017156	-88.880890	474.80	9.00	483.80
10	37.017045	-88.880912	475.67	9.00	484.67
11	37.013190	-88.880901	477.29	9.00	486.29

Name: Buchanan Lane
Route type: Two-way
View angle: 50.0 deg



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	37.013327	-88.883819	461.63	9.00	470.63
2	37.013216	-88.882210	471.96	9.00	480.96
3	37.013190	-88.880965	477.19	9.00	486.19
4	37.013147	-88.880257	475.69	9.00	484.69
5	37.013104	-88.879978	477.05	9.00	486.05
6	37.013010	-88.879860	475.50	9.00	484.50
7	37.012804	-88.879806	475.46	9.00	484.46
8	37.011699	-88.879828	476.77	9.00	485.77
9	37.010346	-88.879817	477.06	9.00	486.06
10	37.009112	-88.879839	465.43	9.00	474.43

Name: County Line Road

Route type Two-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022331	-88.863760	480.66	9.00	489.66
2	37.018887	-88.863792	470.16	9.00	479.16
3	37.016180	-88.863803	460.48	9.00	469.48
4	37.013747	-88.863867	471.42	9.00	480.42
5	37.013207	-88.863685	474.48	9.00	483.48
6	37.012719	-88.863030	469.97	9.00	478.97
7	37.012376	-88.862344	467.86	9.00	476.86
8	37.011965	-88.861882	468.79	9.00	477.79
9	37.011614	-88.861829	466.72	9.00	475.72
10	37.010586	-88.861818	471.69	9.00	480.69
11	37.007467	-88.861882	479.34	9.00	488.34

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
1-ATCT	37.057640	-88.771778	405.15	50.00	455.15
OP 2	37.017953	-88.864287	473.68	16.00	489.68
OP 3	37.019105	-88.863536	476.70	16.00	492.70
OP 4	37.021135	-88.869099	475.47	16.00	491.47
OP 5	37.013648	-88.881298	478.37	16.00	494.37
OP 6	37.009647	-88.880273	483.41	16.00	499.41
OP 7	37.011618	-88.880112	477.91	16.00	493.91
OP 8	37.011956	-88.880853	478.71	16.00	494.71
OP 9	37.012890	-88.883905	470.20	16.00	486.20
OP 10	37.012946	-88.884870	465.73	16.00	481.73
OP 11	37.013879	-88.887424	460.77	16.00	476.77

1-ATCT map image



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	
301	SA tracking	SA tracking	0	0	-	-
302	SA tracking	SA tracking	0	0	-	-
303	SA tracking	SA tracking	0	0	-	-
304	SA tracking	SA tracking	0	0	-	-
305	SA tracking	SA tracking	0	0	-	-
306	SA tracking	SA tracking	0	0	-	-
307	SA tracking	SA tracking	0	0	-	-
308	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

301 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

302 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

303 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

304 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

305 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

306 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

307 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

308 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Barkley Regional Airport Runway 14	0	0
FP: Barkley Regional Airport Runway 23	0	0
FP: Barkley Regional Airport Runway 32	0	0
FP: Barkley Regional Airport Runway 5	0	0
OP: 1-ATCT	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
Route: Boulton Road	0	0
Route: Bourdant Road	0	0
Route: Buchanan Lane	0	0
Route: County Line Road	0	0

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographical 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 large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.