APPENDIX 12

Glint and Glare Assessment

This report has been prepared for Richmond Valley Solar & BESS Pty Ltd (ABN 43 672 993 869) a wholly owned special purpose vehicle of Ark Energy Projects Pty Ltd and the Proponent of the Project. Richmond Valley Solar & BESS Pty Ltd will herein be referred to as Ark Energy or Ark Energy Projects.

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Glint and Glare Assessment

Executive Summary

Moir Landscape Architecture (Moir LA), have been engaged by Umwelt (Australia) Pty Limited (Umwelt) on behalf of Ark Energy Pty Ltd (Ark Energy) to prepare a Glint and Glare Assessment for the proposed Richmond Valley Solar Farm (the Project).

This Glint and Glare Assessment has been prepared in accordance with the Department of Planning and Environment (DPE) *Large-Scale Solar Energy Guideline* (August 2022) (the Guideline) (now the Department of Planning, Housing and Infrastructure [DPHI]).

In accordance with the Guideline, the following has been assessed:

- Assessment of private (non-associated) receptors (observation points) within 3 km of the solar array that have a line of sight is a requirement of the Guideline.
- All public (road) receptors within 1km of the solar array.
- Aviation receptors within 5 km of the solar array.

Moir LA has undertaken this glint and glare assessment utilising the Solar Glare Hazard Analysis Tool (SGHAT). The SGHAT is used to evaluate glare resulting from solar farms at different receptors, based on proximity, orientation and specifications of the PV modules.

It is important to note, this assessment is based on a worst-case scenario and does not take into account weather conditions, intervening elements such as vegetation and built structures.

A total of 33 free standing Observation Points (OP), i.e. private receptors (non-associated) were identified within 3 km of the Project. Based on glare assessment, potential "Yellow" glare was identified for four (4) of private receptors (non-associated). Detailed assessment of the results indicates that the potential 'yellow' glare at these receptors is less than 10 hours per year which therefore renders a 'low' glare impact. No further mitigation have been determined to be required from private receptors (non-associated) in accordance with the Guidelines.

Two (2) public (road) receptors including Avenue Road and Main Camp Road were identified within 1 km of the solar array. Based on the assessment, potential "Yellow" glare was identified for these public (road) receptors. As a result of these findings, mitigation is required in line with the Guidelines from these public (road) receptors.

Principles for mitigation to reduce potential glare have been discussed in this report in accordance with the *Large-Scale Solar Energy Guideline Guidelines* - Landscape and Visual Impact Assessment (DPEa, 2022).

Glossary of Key Terms

Associated receptor - A private receptor on privately-owned land in respect of which the owner has reached an agreement with Ark Energy in relation to the development and management of impacts associated with the Project.

Backtracking - Adjusting the position of solar panels to capture sunlight enhancing energy efficiency.

Large-scale solar energy development - Works, infrastructure and buildings for the purpose of generating electricity using ground-mounted photovoltaic panels that are state significant development (SSD).

Glint and Glare Assessment - A tool used to identify and assess the likely impacts of potential glare resulting from the Project on surrounding road users, rail network, nearby buildings, air traffic controllers and pilots.

Glare Modelling - Simulation or representation of how glare might occur in a given environment.

Non-associated receptors - A private receptor on privately-owned land in respect of which the owner has not reached an agreement with Ark Energy in relation to the Project.

Observation Point - A private (non-associated) receptor identified to assess the likely impacts of potential glare resulting from the Project.

Public receptor - Publicly accessible locations which have the potential to be visually impacted by a proposal. These generally include local roads and rail users.

Receptors - Individuals and/or defined groups of people who have the potential to be visually impacted by a proposal.

Study area - Specific geographic location that is the focus of the analysis.

SSD - State Significant Development

SEARs - Secretary's Environmental Assessment Requirements

Glare impact - The potential glare impact on views from the Project on receptors surrounding the Project.

***Note** - In this report, any references to "residence", "dwellings" or "residences" are cited as they appear in the Guidelines and the Technical Supplement. For consistency within this report, it is crucial to understand that they refer to "Private Receptors" to fully grasp their intended meaning.*

1.0 Introduction

1.1 The purpose of this report

Moir Landscape Architecture (Moir LA), have been engaged by Umwelt (Australia) Pty Limited (Umwelt) on behalf of Ark Energy Projects Pty Ltd (Ark) provide a Glint and Glare assessment of the Project. The report will accompany the EIS prepared for the Project.

The Glint and Glare Assessment has been prepared in accordance with the *Large-Scale Solar Energy Guidelines* - Landscape and Visual Impact Assessment (DPE, 2022).

Glint is generally defined as a momentary flash of bright light while glare can be defined as continuous source of excessive brightness proportionate to ambient lighting (FAA, 2021).

While glint and glare impacts can be relatively uncommon, it is important to model and assess these impacts to ensure any potential significant impact is avoided or mitigated appropriately (DPE, 2022).

Assessment needs to be undertaken to ensure that sensitive visual receptors such as road users, surrounding rail network, nearby buildings, air traffic controllers and pilots are not impacted by the proposed development (ForgeSolar, 2022).

1.2 Glint and glare key principles

The key principles for ensuring the Project can be undertaken whilst maintaining an acceptable level of amenity are outlined in the Guideline as follows:

1. **Solar panels should be sited to reduce the likely impacts of glint and glare.**

2. **Solar panels and other infrastructure should be constructed of materials and / or treated to minimise glint and glare.**

3. **If large scale solar energy development is likely to exceed the relevant criteria for glare and standards for glint, mitigation strategies should be adopted.**

1.3 Glint and glare key principles

Table 1 provides an outline of the assessment requirements for the glint and glare report (in accordance with the Guidelines, DPE 2022 and the SEARs) and where these have been addressed in the report. The objective of the assessment as stated in the Guideline is to "*demonstrate that glint and glare would not pose a significant risk to motorists or pilots and that nuisance from glare is minimised for residential locations in accordance with the objectives outlines in* [the Guideline]" (DPE 2022a, p. 32).

Report Structure	
Requirements for Glint and Glare Assessment:	**Addressed in report:**
A description of the proposed PV panels indicating: *- the axis of rotation and maximum tilt angle* *- the light absorption efficiency and / or refractive index values at different angles.* *- whether any backtracking is proposed and the time and duration of these operations.*	**Refer to:** **Section 3.0: Project Overview**
A justification for excluding any modeled glare results because they would be insignificant due to the size, position and luminance of the glare source or high ambient luminance.	**Refer to:** **Section 2.0: Study Method**
Results of the glint and glare analysis for each assessable receiver	**Refer to:** **Section 4.0: Private receptors** (Assess all residential dwellings within 3 km of the proposed solar array that have a line of sight.) **Section 5.0: Public Receptors** (Assess all roads and rail lines within 1 km of the proposed solar array.) **Section 6.0: Aviation Receptors** (Assess all air traffic control towers and take off / landing approaches to any runway or landing strip within 5 km of the proposed solar array.)
Identification of existing vegetation or built structures and a quantitative assessment of whether these features would eliminate or reduce the modeled impacts.	**Refer to Summary Tables**
Details of strategies to either avoid or mitigate impacts including re-siting or sizing the project, altering the tracking patterns, implementing vegetation screening, or entering neighbor agreements with landowners if all other measures have been exhausted.	**Refer to:** **Section 8.0: Mitigation Recommendations**

Table 01 – Overview of Assessment Requirements

2.0 Study Method

2.1 Assessment Methodology

Moir LA have undertaken this glint and glare assessment utilising Solar Glare Hazard Analysis Tool (SGHAT) developed by Sandia National Laboratories. The SGHAT is used to evaluate glare resulting from solar farms at different receptors, based on proximity, orientation and specifications of the PV modules. This tool is recognised by the Australian Government Civil Aviation Safety Authority (CASA).

SGHAT is used to indicate the nature of glare that can be expected at each potential receptor. Glare can be broadly classified into three categories and presented by the following three colours:

- **Green Glare:** Low potential for temporary after-image
- **Yellow Glare:** Potential for temporary after-image
- **Red Glare:** Retinal burn, not expected for PV.

Note: The main focus of this assessment is the yellow glare. Red glare is not expected for PV and green glare has low potential to cause after image and deemed negligible (HO,2011).

The glare analysis tool used to assess the glint and glare hazard was run at a simulation interval of one minute, based on the reflectivity of solar rays off PV modules which typically lasts for at least one minute.

Modelling for the solar farms in the SGHAT tool is based on the following factors:

- Position of the sun over time with respect to the location of the proposed solar farm.
- Assessment is based on a worst case scenario assuming clear weather all year round, (ie. no consideration of cloud coverage).
- Tracking axis tilt, tracking axis orientation and properties of the PV modules.
- Potential to screen the impact by surrounding topography (does not take into account intervening elements such as vegetation and built structures).

2.2 Modelling Assumptions

The glare and glint impact is calculated utilising the geographic location, elevation, position of the sun and other vector calculations including module orientation, reflective environment and visual factors. Sun position is determined at every one (1) minute interval through out the year.

Although the SGHAT is an extensive tool to understand the impacts of potential glare, it does not consider weather conditions, separation between PV modules and existing surrounding vegetation (if present) between the Project and a sensitive receiver.

Single axis tracking PV panels capable of rotating to a maximum of 60° have been considered to indicate a full rotational range of 120° for this analysis. The trackers are oriented north-south with a maximum pitch distance of 5.4 m. Glare modelling has been conducted to correspond to maximum tracker height to provide a wider range of observed solar glare based on the extremities.

The glint and glare effects of PV panels depends on the scale and type of infrastructure, the prominence and topography of the site relative to the surrounding environment, and any proposed screening measures to reduce visibility of the site.

Glare modelling has been conducted using the Shade-slope backtracking function within the SGHAT tool. Ground Coverage Ratio (GCR) calculations are used within the SGHAT tool for 'Shade-Slope' backtracking analysis. GCR is defined as the ratio of the array length (L) to proposed pitch distance (R) (Doubleday et al. 2016) (see **Figure 01**).

$$\mathrm{GCR} = \frac{L}{R} \ .$$

For this assessment GCR is calculated considering L = 2.384 m and R = 5.4 m.
The resulting GCR = 0.44.

Section 3.0 provides an overview of the PV panel parameters used for the assessment.

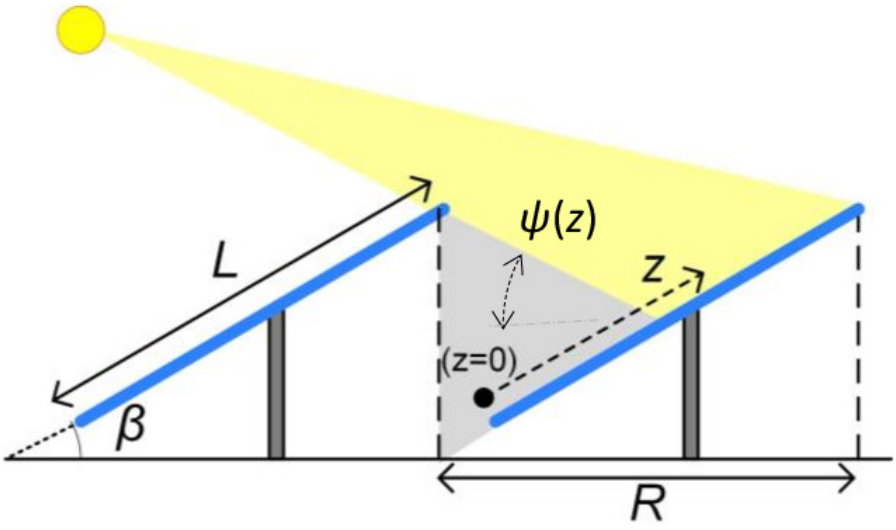


Figure 01 – GCR Calculation
Imagery Source: Doubleday et al. 2016

2.3 Backtracking Operations

A single axis horizontal tracking system can be configured to do a 'backtracking' technique, which implies that when the sun is low in the sky in the morning or evening, the tracking system can adjust the panels to maximise solar capture while minimising overshadowing. (Refer to **Image 2 & 3**).

ForgeSolar uses a simplified model of backtracking to avoid shading. Single-axis trackers follow the movement of the sun as it moves east to west throughout the day. Yields are maximised, and light reflection is minimised when panels are directly facing the sun. In times when the sun is not in the tracking range, it is assumed that the panels instantaneously 'backtrack' to their resting angle of 0° (horizontal) over the night . Due to this, glare from the backtracking mechanism will be more conservatively simulated and at times of sunset and sunrise, when the sun is at a lower angle relative to the array, glare impacts will be more noticeable.

Variable angles of incidence of the sun relative to the panels may occur when the tracking system is performing a backtracking operation, and this variation is somewhat represented by SGHAT software in its recent update of 2022.

Shade-slope backtracking function within the SGHAT tool considers the lowest possible panel rotation angle during backtracking. Therefore, 0° resting angle option is modelled. This function simulates the impression of the panels returning to a predefined angle after the maximum tilt angle has been attained.

It is important to note however, that this backtracking modelling is not a realistic representation of how a backtracking technique would work in actuality but gives an indication of the potential glare of shifting the PV panels away from the sun after the maximum tilt is reached.

For the purposes of the assessment, the assumptions for backtracking in relation to the Project is as follow: (Refer to **Image 3**)

- Scenario 1: Normal tracking with backtracking and a night time stowing angle of 0° - to represent a worst-case scenario for the Project. In this case, the panels move between the operational range (maximum tilt).

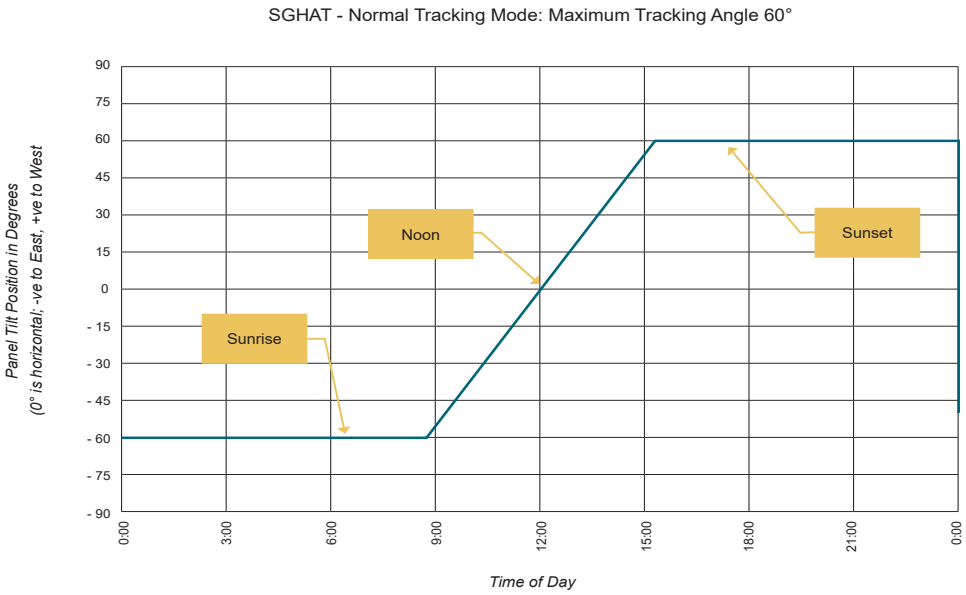
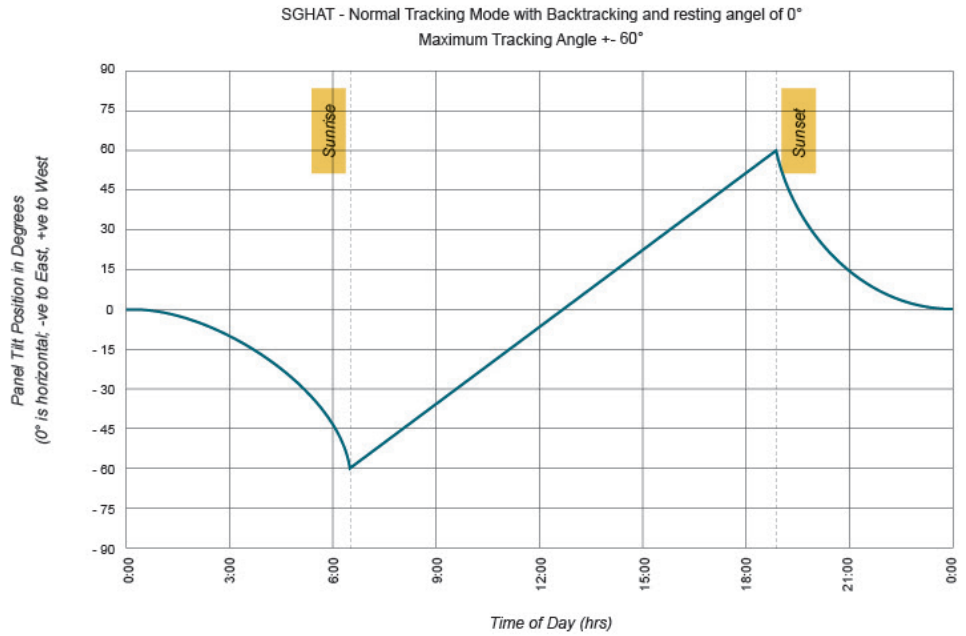


Image 02 Normal Tracking without Backtracking (2023) - Scenario 6



LEGEND

Relative Angles of Panels

Image 03 Normal Tracking with Backtracking and Resting Angle of 0°

2.4 Operational Management Strategy

Utilising operational management techniques is an alternative mitigation measure to alter the functioning of the PV array during the backtracking mode. This method serves to mitigate glare effectively.

To address this strategy and reduce the potential glare impacts linked to the Project, it has been rigorously assessed and modelled adjustments to the tracking patterns using ForgeSolar (refer to **Image 4**).

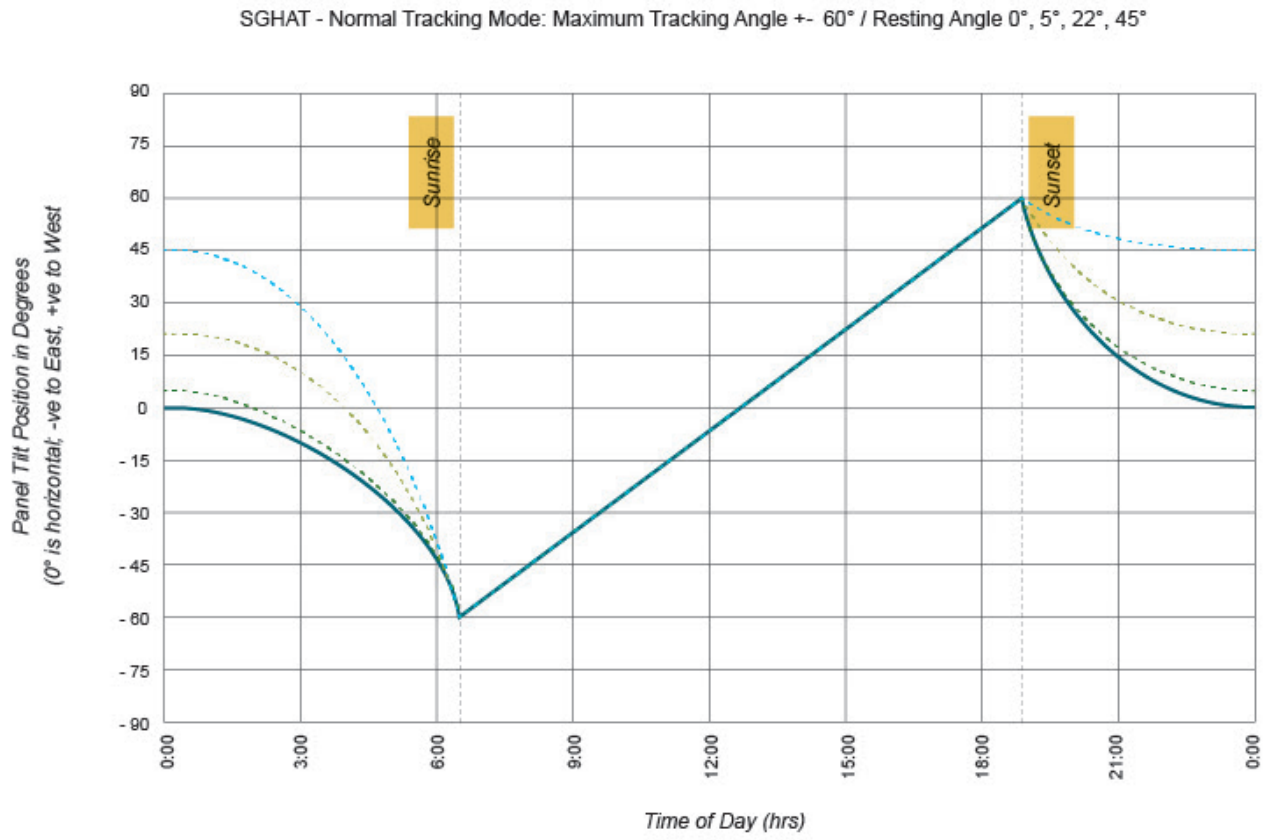


Image 04 Backtracking Operations for Mitigation (2023)

The following aspects of each scenario have been undertaken to ascertain an appropriate mitigation strategy:

- Scenario 1 (worst case): Normal tracking with backtracking and night time stowing angle of 0° - scenario was modelled as a worst-case scenario for the Project. In this case, the panels move between the operational range (maximum tilt) discussed in Section 2.4 (refer image 03).
- Scenario 2: Normal tracking with backtracking and night time stowing angle of 5° - scenario was modelled with a normal tracking angle of ±60° angle with backtracking operation. In this case, the panels move between the operational range (maximum tilt) and backtrack to 5° when the sun is out of range and remain at this angle only switching back during the night.
- Scenario 3: Normal tracking with backtracking and night time stowing angle of 22° - scenario was modelled with a normal tracking angle of ±60° angle with backtracking operation. In this case, the panels move between the operational range (maximum tilt) and backtrack to 22° when the sun is out of range and remain at this angle only switching back during the night.

- Scenario 4: Normal tracking with backtracking and night time stowing angle of 45° - scenario was modelled with a normal tracking angle of ±60° angle with backtracking operation. In this case, the panels move between the operational range (maximum tilt) and backtrack to 45° when the sun is out of range and remain at this angle only switching back during the night.
- Scenario 5: Normal tracking with backtracking and night time stowing angle of 60° - scenario was modelled with a normal tracking angle of ±60° angle with no backtracking operation. In this case, the panels move between the operational range (maximum tilt) and remain at this angle only switching back during the night.
- Scenario 6: Normal tracking without backtracking and stowing angle - scenario was modelled with a normal tracking angle of ±60° angle with no backtracking operation. In this case, the panels move between the operational range (maximum tilt) and remain at this angle only switching back during the night (refer **Image 02**).

3.0 Project Overview

3.1 Solar Panel Specifications

To attain optimum solar energy collection, the Project modelling has utilised a maximum rotational range of 120°. The panels are fixed on a tubular frame with a single axis tracking procedure. For accuracy, glare analysis has been performed using maximum tracker height not exceeding 2.5 m when facing at the highest angle.

Refer to **Figure 02** for typical panel dimensions utilised for this assessment.

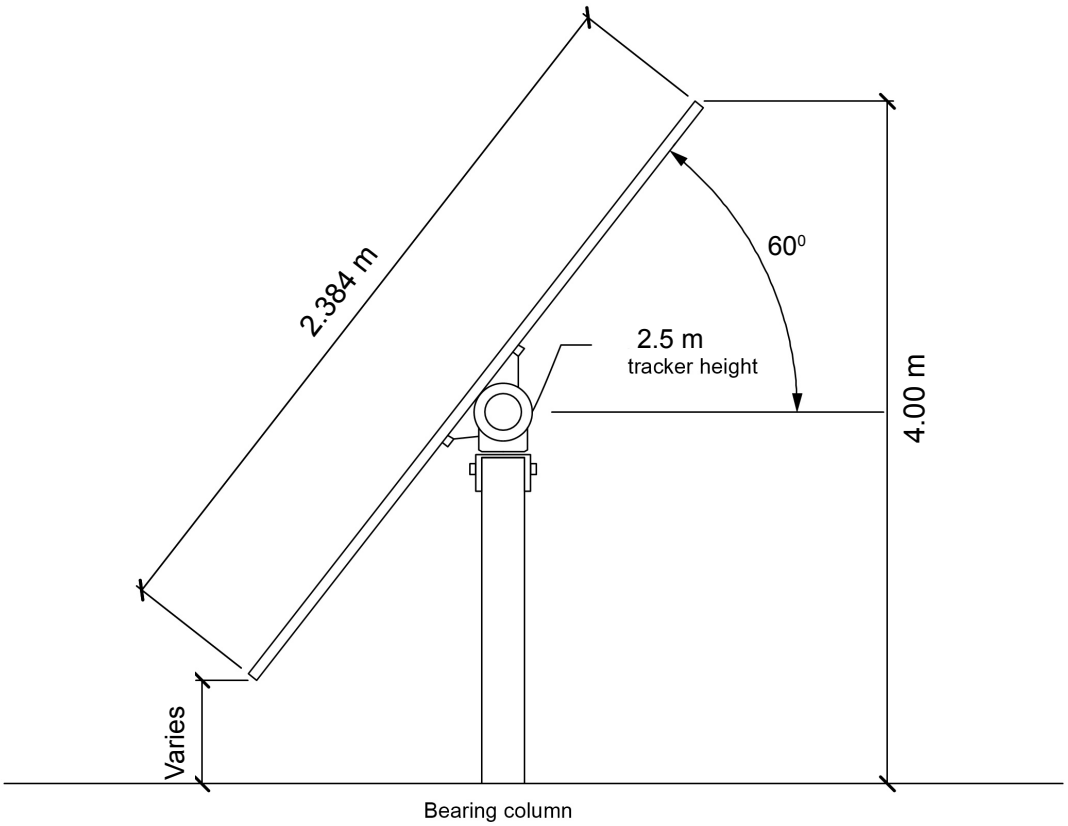


Figure 02 – PV Parameters utilised for this assessment
Imagery Source: Provided by the Client

General Solar PV system inputs:			
Input Data	**Units**	**Value**	**Comments**
Time Zone	UTC	+10	NSW time Zone
Orientation of Array	Degrees	0	Rows aligned in north-south directions
PV Surface materials	-	Smooth Glass with Anti-Reflective Coating	-
Mounting Type	-	Single Axis Tracking	-
Panel Maximum Height	Metres	4.00	Provided by Ark Energy
Panel Dimensions	Metres	2.384 (L) x 2.00 (W)	Provided by Ark Energy
Pitch Distance	Metres	5.4	Provided by Ark Energy
Single Axis Tracking Parameters			
Axis Orientation	Degrees	0	Panels orientated north south
Module Offset angle	Degrees	0	Facing upwards Panels rotate during operation
Max tracking angle	Degrees	±60° (Range of 120°)	Panels following the Sun
Resting angle	Degrees	0	Panels following the sun, to represent backtracking and after dark stowing angles
Maximum Tracker Height	Metres	2.5	Provided by Ark Energy
Backtracking	-	Shade-Slope	Provided by Ark Energy
Ground Coverage Ratio	-	0.44	Ratio of the Array length to the pitch distance as provided by Ark Energy

Table 02 – Summary of modelling parameters (Scenario 1)

3.2 Array layout

A single axis tracking system follows the sun's trajectory and rotates the panels across east to west. The modules mounted on a north/south axis will slowly track the movement of the sun. The rows of modules will be spaced approximately 5.4 m apart to ensure no shading occurs and allow for ease of access for maintenance purposes (Refer to **Table 02**).

For the purpose of this report, the Project has been divided into 19 separate areas (numbered 1 - 23) for assessment. This has been done due to software limitations and does not have any effects on the overall result. Please note that although the solar arrays have been divided into 19 separate areas, they have been numbered starting from 1 to 23 due to software limitations. Again, this does not have any effects on the overall result.

Refer **Figure 03** for PV array areas.

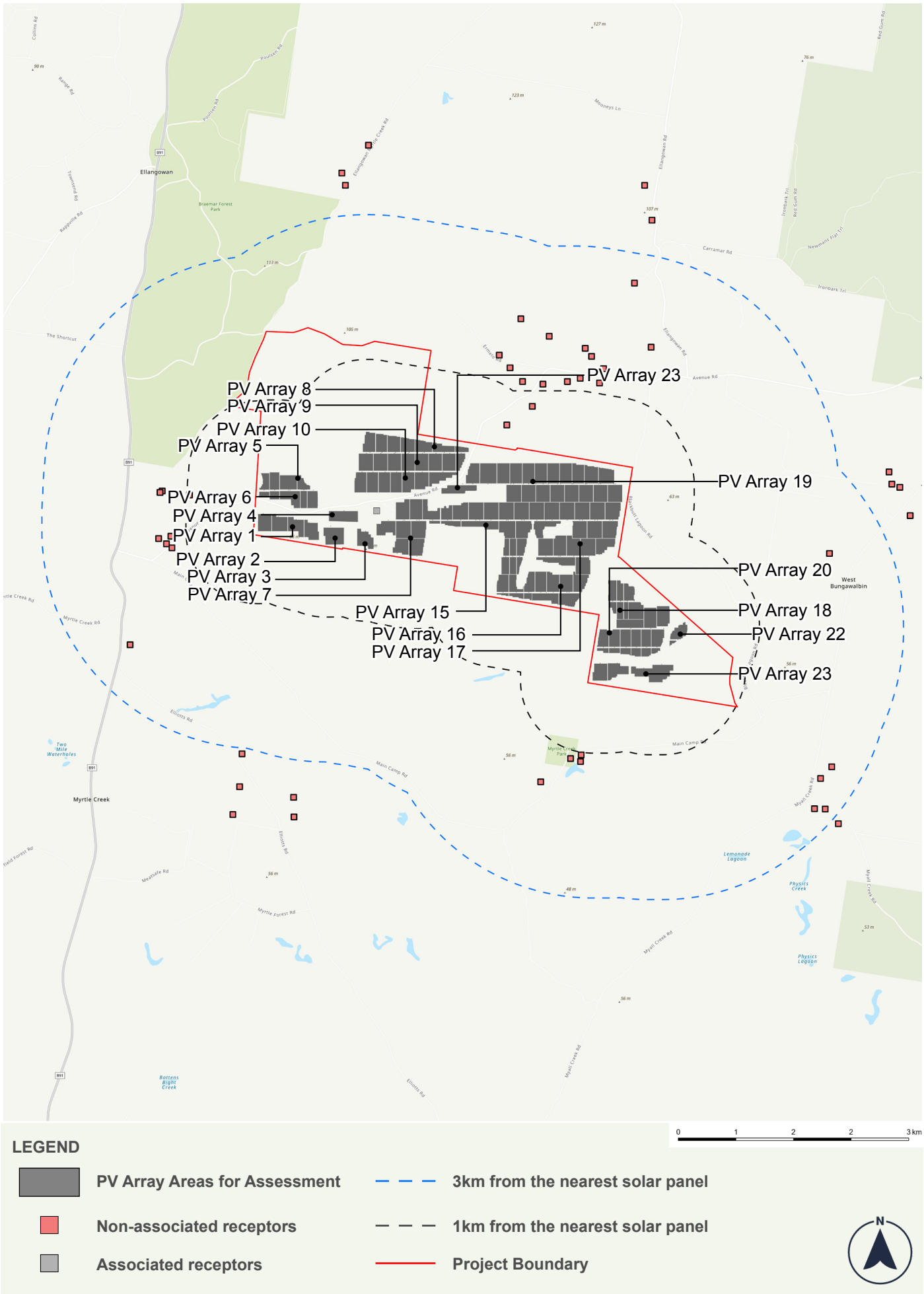


Figure 03 – Project Area
Imagery Source: ESRI Aerial Imagery 2023

4.0 Private receptors

4.1 Overview of Methodology

Table 03 provides an overview of the scope, methodology and performance objectives for assessment of glint and glare on private receptors (non-associated).

Glint and Glare Requirements - Private Receptor		
Scope	**Methodology**	**Performance Objective**
All residential viewpoints within 3 km of the proposed solar array that have a line of sight. Representative viewpoints may be used for residential receptor that are clustered together.	**Analysis of the daily and yearly glare impacts in minutes.** **All residential receptor must be assessed at a height of 1.5 m above ground level.**	**Refer to Table 04.**
Note: Modeling for private receptors is calculated on a receptor height of 1.5 m AGL.		

Table 03 – Private receptors Assessment Requirements (Source: DPE, 2022)

Impact rating and performance objectives for glare impacts on Private receptors		
High Glare Impact	**Moderate Glare Impact**	**Low Glare Impact**
> 30 minutes per day **> 30 hours per year**	**< 30 minutes per day > 10 minutes per day** **< 30 hours per year > 10 hours per year**	**< 10 minutes per day** **< 10 hours per year**
Significant amount of glare that should be avoided	*Implement mitigation measures to reduce impacts as far as practicable*	*No mitigation required*

Table 04 – Private receptor impact rating and performance objectives (Source: DPE, 2022)

4.2 Private receptors

A desktop assessment identified 33 private receptors (non-associated) with a line of sight to the Project within 3 km of the Project.

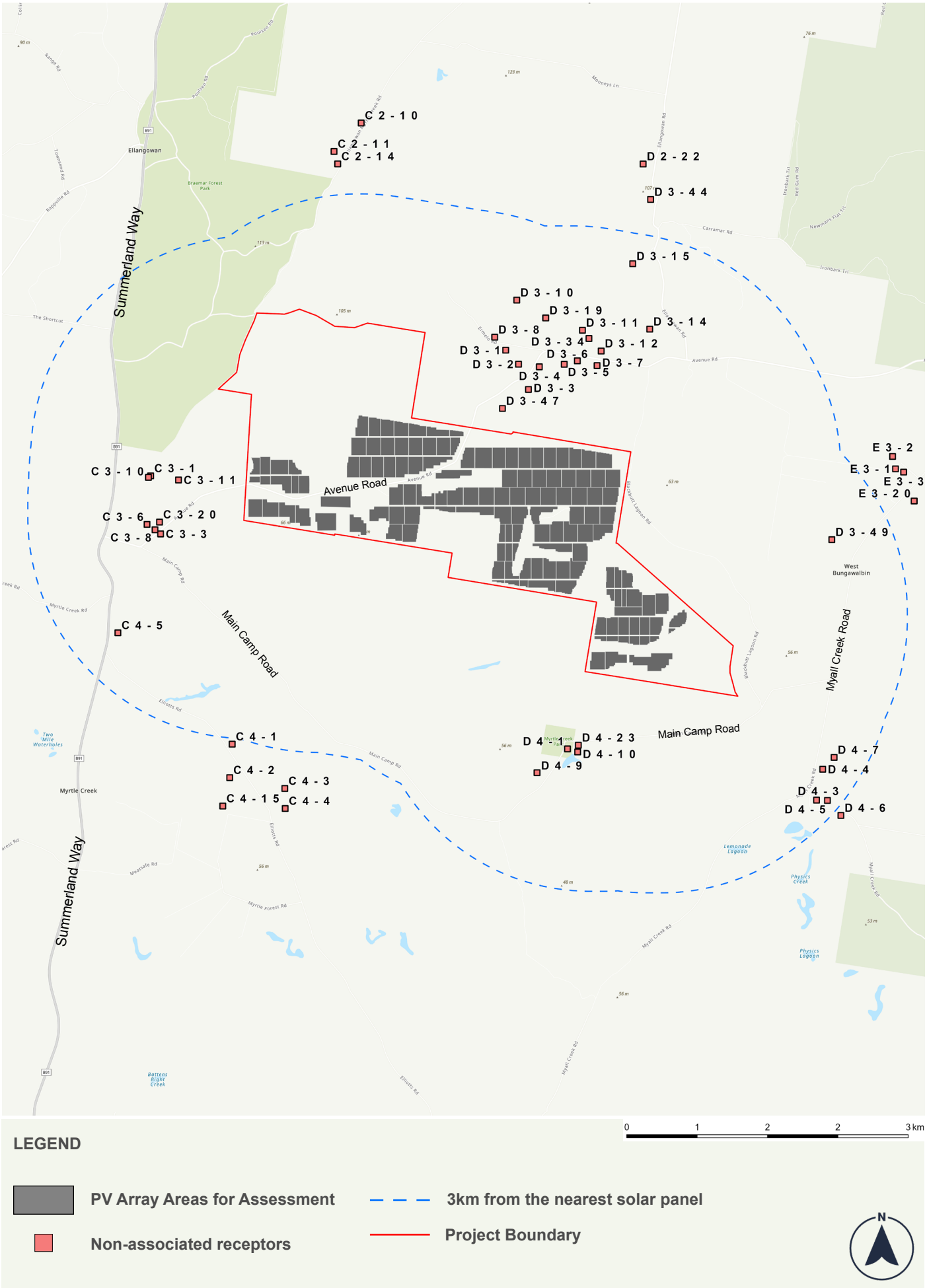


Figure 04 – Private receptors
Imagery Source: ESRI Aerial Imagery 2023

Dwelling ID	OP ID	Glare Hours per year (Yellow)	Distance to the solar panel	Impact Rating and Performance Objective in accordance with the Guidelines (see Table 04):
C3-1	OP1	0.0	1,321	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
C3-10	OP2	0.0	1,324	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
C3-11	OP3	0.0	961	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
C3-20	OP4	0.7	1,150	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
C3-3	OP5	1.1	1,357	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
C3-6	OP6	0.6	1,380	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
C3-8	OP7	1.9	1,403	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
C4-5	OP8	0.0	2,370	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-1	OP9	0.0	1,140	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-10	OP10	0.0	1,930	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-11	OP11	0.0	1,593	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-12	OP12	0.0	1,288	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-14	OP13	0.0	1,772	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-15	OP14	0.0	2,596	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-19	OP15	0.0	1,759	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-2	OP16	0.0	938	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-3	OP17	0.0	610	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-34	OP18	0.0	1,490	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-4	OP19	0.0	938	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-47	OP20	0.0	423	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-49	OP21	0.0	2,204	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.

Table 05 – Residential receptor assessment results

D3-5	OP22	0.0	1,029	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-6	OP23	0.0	1,103	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-7	OP24	0.0	1,083	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D3-8	OP25	0.0	1,350	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D4-1	OP26	0.0	1,084	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D4-10	OP27	0.0	1,120	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D4-23	OP28	0.0	1,030	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D4-3	OP29	0.0	2,736	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D4-4	OP30	0.0	2,529	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D4-5	OP31	0.0	2,831	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D4-7	OP32	0.0	2,566	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.
D4-9	OP33	0.0	1,584	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.

5.0 Public receptors

5.1 Overview of Methodology

Table 06 provides an overview of the scope, methodology and performance objectives for assessment of glint and glare on road and railway line receptors.

Glint and Glare Requirements - Public Receptors		
Scope	**Methodology**	**Performance Objective**
All roads and rail lines within 1 km of the proposed solar array.	**Solar glare analysis to identify whether glint and glare are geometrically possible within the forward looking eyeline of motorists and rail operators.**	**If glare is geometrically possible then measures should be taken to eliminate the occurrence of glare. Alternatively, Ark Energy must demonstrate that glare would not significantly impede the safe operation of vehicles or the interpretation of signals and signage.**
Note: Modeling for public (road) receptors is calculated on a maximum height of 2.4 m AGL - representative of the eye level for truck drivers (Source: Austroads Ltd. 2021).		
Modeling for rail lines is based a representative eye height of 3 m AGL to represent the eye level of train drivers (Source: Transport Asset Standards Authority 2020).		

Table 06 – Public Receptor Assessment Requirements (Source: DPE, 2022)

5.2 Public receptors

The desktop assessment identified two (2) public receptors within 1 km of the solar array. These include Avenue Road and Main Camp Road.

No rail receptors were identified within 1 km of the solar array.

Figure 05 illustrates public (road) receptors identified within 1 km of the solar array.

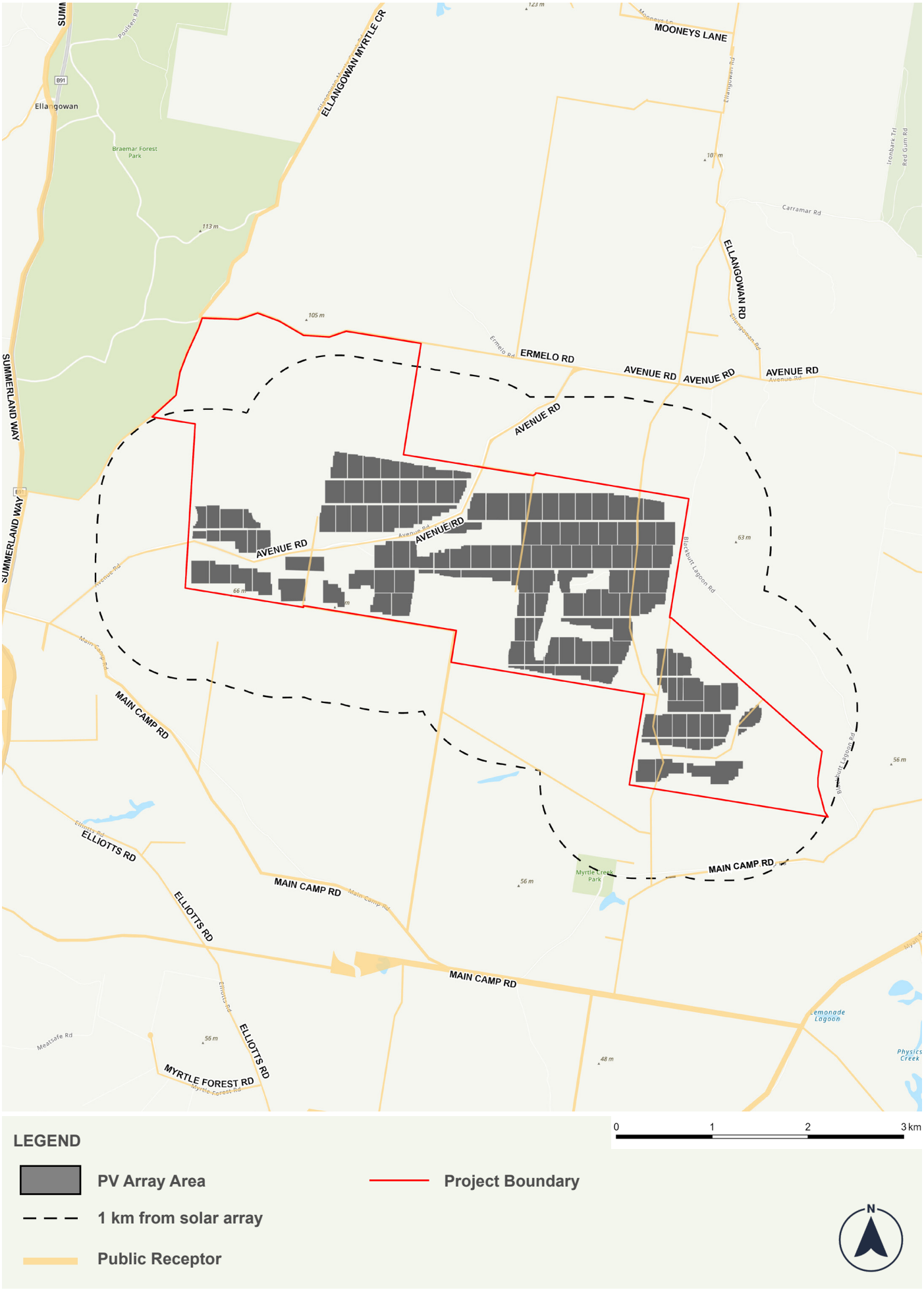


Figure 05 – Public (road) receptors
Imagery Source: ESRI Aerial Imagery 2023

5.3 Results of Glint and Glare Assessment - Public receptors

Two (2) public (road) receptors were identified as part of the assessment.

Table 07 provides an overview of the annual glare experienced along the two (2) public receptors using Scenario 1.

Road/Rail Receptors	Approximate Location to Project	Elevation	Glare Hours per year (Yellow)	Impact Rating and Performance Objective in accordance with the Guidelines (see Table 04):	Existing Screening Factors	Mitigation Recommendations:
Avenue Road	Runs through the Project	29-60 m	534.0 hrs	> 30 hours per year means High Glare Impact. Performance objective: Implement mitigation measures to reduce impacts as far as practicable.	Roadside vegetation along the road to the west	Operational management techniques such as altering normal tracking operations are recommended. Refer to Section 8.0 for details.
Main Camp Road	Located to the south of the Project. Approx. 0.963m at its closest	25-31 m	2.1 hrs	< 10 hours per year means Low Glare Impact. Performance objective: No mitigation required.	Potentially a Private Road. Lack of roadside Vegetation	Not required

Table 07 – Public (road) receptor assessment results

5.3.1 Avenue Road

Based on the glare assessment, it has been determined that Avenue Road is projected to experience a total of approximately 534 hours of 'Yellow' glare per year which is deemed as a 'high' glare impact. The following outlines the PV Array areas and times that there is the potential for 'Yellow' Glare:

- PV Array 10 is expected to have the majority of glare with up to 395.8 hr/year of 'Yellow' glare during the period from mid-March to late September, specifically between 5:45 am to 10.15 am and between 12:30 pm to 06:00 pm.
- PV Array 6 is expected to have up to 89.8 hr/year of 'Yellow' glare during the period from mid February to mid October between 05:00 am until 07:55 am and from mid April to late August from 04:30pm to 05:30pm.
- PV Array 19 is expected to have up to 34 hr/year of 'Yellow' glare during the period from February to early November.
- PV Arrays 7,8,15 and 16 are expected to have less than 10 hrs/year of 'Yellow' glare per panel that contributes to the total glare experienced along Avenue Road (534.0 hrs).

It is crucial to emphasise that this assessment is based on a worst-case scenario and does not account for factors such as weather conditions, intervening elements like vegetation, or built structures, which may influence the actual glare experienced.

For more detailed information on the glare impact on Avenue Road, please refer to the comprehensive glare impact output provided in **Attachment A.**

5.3.2 Main Camp Road

PV Array 15 are expected to have up to 2.1 hr/year of 'Yellow' glare in mid May and August between 02:00 pm to 02:15 pm which has the potential to effect Main Camp Road. In accordance with the Guidelines this is considered as a 'low' glare impact.

For more detailed information on the glare impact on Main Camp Road, please refer to the comprehensive glare impact output provided in **Attachment A.**

6.0 Aviation Receptors

6.1 Overview of Methodology

Table 08 provides an overview of the scope, methodology and performance objectives for assessment of glint and glare on aviation receptors.

Glint and Glare Requirements - Aviation Receptors		
Scope	**Methodology**	**Performance Objective**
All air traffic control towers and take off / landing approaches to any runway or landing strip within 5 km of the proposed solar array.	**Solar glare analysis that is worst case in all scenarios accounting for all aircraft using the airport (e.g. gliders, helicopters etc).**	**Any glint and glare should be avoided unless the aerodrome operator agrees that the impact would not be material (e.g. occurs at times when there are no flights or would not pose a safety risk to airport operations).**
Note: Modeling for Flight Path receptors is calculated on a threshold crossing height of 50 ft (15 m) in two mile (3.21 km) point ground elevation and the ±50 degree azimuthal and 30 degree vertical viewing angle representative of the pilot field view from cockpit (Source: Rogers, 2015).		

Table 08 – Aviation Receptor Assessment Requirements (Source: DPE, 2022)

6.2 Aviation Receptors

The desktop assessment did not identify any landing strips within 5 km of the solar array and therefore no further assessment was undertaken.

7.0 Performance Objectives

7.1 Summary of assessment results

7.1.1 Private Receptors

Table 04 provides an overview of the scope, methodology and performance objectives for assessment of glint and glare on receptor receptors. The assessment undertaken by Moir LA has been summarised below:

Four (4) residential receivers have been assessed as having a potential 'Yellow' glare

The assessment reveals that the OP4 (C3-20) is projected to experience approximately 0.70 hours per year of potential "Yellow" glare from PV Array 10. OP5 (C3-3) is projected to experience approximately 1.1 hours per year of potential "Yellow" glare from PV Array 10. OP6 (C3-6) is projected to experience approximately 0.6 hours per year of potential "Yellow" glare from PV Array 10. OP7 (C3-8) is projected to experience approximately 1.9 hours per year of potential "Yellow" glare from PV Array 10.

The detailed glint and glare findings for the receptors are found in the attached Glint and Glare Assessment Results (**Attachment A and B**).

The result of the findings for the four (4) residential receivers are under 10 hr/yr, resulting in a 'low' glare impact. As a result, no further mitigation measures are required in accordance with the Guidelines

7.1.2 Public receptors

Table 06 provides an overview of the scope, methodology and performance objectives for assessment of glint and glare on receptor receptors. The assessment has been summarised below:

Two (2) Public (road) receptors have been assessed as having potential glare.

The assessment reveals that Avenue Road may experience approximately 534 hours per year of potential "Yellow" glare and Main Camp Road is projected to experience approximately 2.1 hours per year of potential "Yellow" glare. The assessment shows that:

PV Array 10 is expected to have the majority of glare with up to 395.8 hr/year of 'Yellow' glare during the period from mid-March to late September, specifically between 5:45 am to 10.15 am and between 12:30 pm to 06:00 pm. PV Array 6 is expected to have up to 89.8 hr/year of 'Yellow' glare

during the period from mid February to mid October between 05:00am until 07:55am and from mid April to late August from 04:30pm to 05:30pm. PV Array 19 is expected to have up to 34 hr/year of 'Yellow' glare during the period from February to early November.

PV Array 15 are expected to have up to 2.1 hr/year of 'Yellow' glare in mid May and August between 02:00 pm to 02:15 pm which has the potential to effect Main Camp Road.

As noted in the performance objectives:

'If glare is geometrically possible then measures should be taken to eliminate the occurrence of glare. Alternatively, the applicant must demonstrate that glare would not significantly impede the safe operation of vehicles or the interpretation of signals and signage'

Upon conducting a desktop assessment of Avenue Road using aerial imagery, it is apparent that there is limited or no screening vegetation between the affected section of the road and the Project.

It is understood that the both Avenue Road and Main Camp Road are located within a bushfire zone. As a result, mitigation in the form of screen planting is not an option. As an alternative, operational management techniques have been explored to mitigate the potential glint and glare identified as a result of the Project (see **Section 8.0**).

8.0 Mitigation Measures

8.1 Overview of Impacts

In accordance with the Guideline: *Details of strategies to either avoid or mitigate impacts of the Project must be provided. The following summarises the key results and proposed mitigation strategies to address the potential impacts.*

8.1.1 Private Receptors

Four (4) receptors have been assessed as having a potential 'Yellow' glare. These four (residential receivers returned a 'low' glare impact and therefore no mitigation is required in accordance with the Guidelines.

8.1.2 Public Receptors

Two (2) roads were identified within a 1 km radius of the solar array which have the potential to experience yellow glare. These roads include Avenue Road and Main Camp Road. Both roads were identified as having limited screening elements therefore alternative mitigation strategies are proposed for the PV Array areas causing the majority of the potential 'Yellow Glare'. However, potential glare along Main Camp Road is less than 10 hours per year and therefore is considered as having a low glare impact in accordance with the Guidelines. As such no mitigation strategies are required for Main Camp Road.

8.1.3 Aviation Receptors

No Aviation receptors were identified within 5 km of the Project.

8.2 Proposed Mitigation Strategies

The Guideline states: *Vegetation screening, or the planting of trees and shrubs, to visually screen solar energy projects or other potential visual impacts (such as glint and glare) from view may be a useful mitigation option for selected viewpoints. On-site screening, such as perimeter planting, should be considered in the first instance. If this is unlikely to be effective, screening can be considered at affected viewpoints.*

Due to the bushfire risk posed by additional screen planting, this mode of mitigation is not possible and operational management is recommended for the PV Arrays 10, 6, 15 and 19.

In the context of the glint and glare assessment and as an alternative mitigation strategy to prevent glare during backtracking mode, Moir LA has undertaken additional assessments. Operational management strategies have been explored as optional mitigation measures to mitigate potential glare at surrounding receptors.

As explained in Section 2.4, the scenario 1, 2, 3, 4, and 5 involve modelling different scenarios with normal tracking, backtracking, and resting angles of 0°, 5°, 22°, 45°, and 60° during night time stowing. Scenario 6 was also modelled and included normal tracking of ±60° angle without backtracking and stowing angle.

In the glare modelling conducted for each scenario, the details and outcomes have been outlined comprehensively in **Appendix B**. Notably, it has been observed that utilising alternate tracking patterns, specifically in Scenario 2, 3, 4, or 5, progressively reduces glare for public receptors however it does not eliminate the instance completely. However, scenario 6 (no backtracking and no night time stowing angle), whereby the panels move between the operational range (maximum tilt) and remain at this angle only switching back during the night was modelled which eliminates the potential for 'yellow' glare impacts from Avenue Road. It is noted that altering the tracking patterns as per Scenario 6 would only be required for the periods and times of year whereby 'yellow' glare is potentially possible and for the groups of panels noted. As such adopting operational management using scenario 6 would result in no 'Yellow' glare. Outside of these times the panels would move as per the desired tracking patterns.

The strategic approach of altering the tracking patterns using Scenario 6 proves to be a proactive and highly effective measure in mitigating the potential glare caused by the Project for Avenue Road. The results derived from these modelling scenarios will serve as an invaluable guide for implementing the most efficient mitigation strategy moving forward and as an effective alternative to screen planting within bushfire prone land.

9.0 Conclusion

The purpose of this report is to identify potential glint and glare impacts from the Project on the surrounding private (non-associated) receptors (within 3 km of the solar array), public (road) receptors (within 1 km of the solar array) and aviation receptors (within 5 km of the solar array).

Based on the assumptions and aforementioned parameters for Scenario 1, the findings of the assessment were:

33 private (non-associated) receptors were identified within 3 km of the solar array. Of these, four (4) were identified as having the potential to experience 'yellow' glare. However, the results indicated a 'low' glare impact which is acceptable and does not trigger the requirement of mitigation in accordance with the Guidelines.

No aviation receptors were identified within 5 km of the solar array. Therefore no further assessment was required.

Two (2) public (road) receptors were identified within 1 km of the solar array, these include Avenue Road and Main Camp Road. In accordance with the Guidelines, if glare is theoretically possible then measures should be taken to eliminate the occurrence of glare. The results determined that there is potential to experience 'yellow' glare from both roads. However, in accordance with the Guidelines, potential glare experienced along Main Camp Road is within acceptable limits and therefore no mitigation is required.

Due to the bushfire risk posed by additional planting, screen planting mitigation was not possible and operational management have been is recommended for the PV Arrays 10, 6, 15 and 19.

In response, Moir LA have conducted additional assessments using different modelling scenarios (i.e. Scenario 2 - 6) to determine the most appropriate operational mitigation strategy.

The assessment demonstrated that Scenario 6 (no backtracking and no night time stowing angle), is the most effective in eliminating the potential for 'yellow' glare impacts from Avenue Road.

It is noted that altering the tracking patterns as per Scenario 6 is only proposed for the times of year and panel locations whereby 'yellow' glare is potentially possible. Outside of these times the panels would move as per the desired tracking patterns. It is recommended that this operation strategy be considered to effectively mitigate the identified glare associated with the Project.

Glint and Glare Assessment Results Attachment A - Scenario 1

FORGESOLAR GLARE ANALYSIS

Project: **2320 Richmond Valley Solar Farm**
Site configuration: **2320 Richmond Valley Analysis Report 20231211**

Created 11 Dec, 2023
Updated 18 Dec, 2023
Time-step 1 minute
Timezone offset UTC10
Minimum sun altitude 0.0 deg
DNI peaks at 1,000.0 W/m^2
Category 100 MW to 1 GW
Site ID 107578.18000

Ocular transmission coefficient 0.5
Pupil diameter 0.002 m
Eye focal length 0.017 m
Sun subtended angle 9.3 mrad
PV analysis methodology V2

Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	34,804	580.1	24,005	400.1	-
PV array 15	SA tracking	SA tracking	586	9.8	126	2.1	-
PV array 16	SA tracking	SA tracking	1,828	30.5	469	7.8	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	1,036	17.3	0	0.0	-
PV array 19	SA tracking	SA tracking	1,519	25.3	2,042	34.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	306	5.1	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	177	3.0	0	0.0	-
PV array 23	SA tracking	SA tracking	1,068	17.8	0	0.0	-
PV array 3	SA tracking	SA tracking	1,073	17.9	0	0.0	-
PV array 4	SA tracking	SA tracking	220	3.7	1	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	2,141	35.7	5,385	89.8	-
PV array 7	SA tracking	SA tracking	563	9.4	376	6.3	-
PV array 8	SA tracking	SA tracking	9,942	165.7	18	0.3	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	24,413	406.9	32,041	534.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	4,270	71.2	126	2.1
OP 1	226	3.8	0	0.0
OP 2	231	3.9	0	0.0
OP 3	198	3.3	0	0.0
OP 4	150	2.5	43	0.7
OP 5	184	3.1	63	1.1
OP 6	139	2.3	36	0.6
OP 7	253	4.2	113	1.9
OP 8	613	10.2	0	0.0
OP 9	1,345	22.4	0	0.0
OP 10	48	0.8	0	0.0
OP 11	951	15.8	0	0.0
OP 12	209	3.5	0	0.0
OP 13	334	5.6	0	0.0
OP 14	903	15.1	0	0.0
OP 15	1,095	18.2	0	0.0
OP 16	1,265	21.1	0	0.0
OP 17	80	1.3	0	0.0
OP 18	712	11.9	0	0.0
OP 19	444	7.4	0	0.0
OP 20	0	0.0	0	0.0
OP 21	315	5.2	0	0.0
OP 22	298	5.0	0	0.0
OP 23	244	4.1	0	0.0
OP 24	115	1.9	0	0.0
OP 25	417	7.0	0	0.0
OP 26	3,022	50.4	0	0.0
OP 27	2,729	45.5	0	0.0
OP 28	2,667	44.5	0	0.0
OP 29	635	10.6	0	0.0
OP 30	1,108	18.5	0	0.0
OP 31	717	11.9	0	0.0
OP 32	1,298	21.6	0	0.0
OP 33	3,635	60.6	0	0.0

Component Data

PV Arrays

Name: PV array 1
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.101325	153.019581	366.24	2.50	368.74
2	-29.101319	153.022208	373.42	2.50	375.92
3	-29.101675	153.022244	322.35	2.50	324.85
4	-29.101686	153.024706	312.51	2.50	315.01
5	-29.102036	153.024742	303.12	2.50	305.62
6	-29.102033	153.026689	299.33	2.50	301.83
7	-29.102411	153.026725	328.19	2.50	330.69
8	-29.102419	153.028128	322.49	2.50	324.99
9	-29.103497	153.028139	354.56	2.50	357.06
10	-29.103500	153.028281	326.46	2.50	328.96
11	-29.104558	153.028281	314.31	2.50	316.81
12	-29.104567	153.026794	364.57	2.50	367.07
13	-29.104200	153.026775	369.06	2.50	371.56
14	-29.104211	153.025361	350.76	2.50	353.26
15	-29.103472	153.025344	337.49	2.50	339.99
16	-29.103472	153.019586	354.43	2.50	356.93

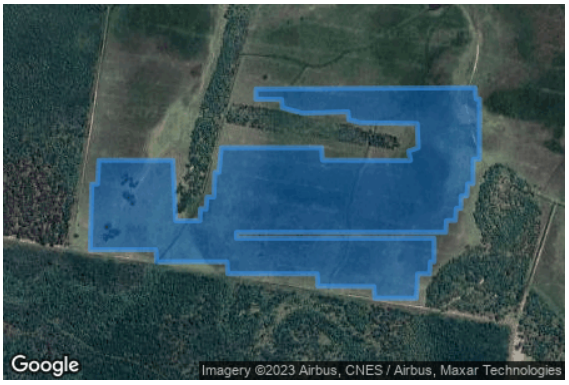
Name: PV array 10
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096789	153.033475	67.12	2.50	69.62
2	-29.096789	153.033625	94.58	2.50	97.08
3	-29.096086	153.033664	83.67	2.50	86.17
4	-29.096069	153.048192	86.35	2.50	88.85
5	-29.096428	153.048178	86.17	2.50	88.67
6	-29.096431	153.047381	77.50	2.50	80.00
7	-29.096778	153.047358	70.21	2.50	72.71
8	-29.096778	153.046492	64.01	2.50	66.51
9	-29.097136	153.046467	57.37	2.50	59.87
10	-29.097136	153.045553	58.92	2.50	61.42
11	-29.097508	153.045553	44.73	2.50	47.23
12	-29.097514	153.044489	51.53	2.50	54.03
13	-29.097786	153.044467	54.99	2.50	57.49
14	-29.097864	153.043553	60.25	2.50	62.75
15	-29.098228	153.043531	57.21	2.50	59.71
16	-29.098236	153.041514	58.17	2.50	60.67
17	-29.098608	153.041486	51.15	2.50	53.65
18	-29.098619	153.033442	60.48	2.50	62.98

Name: PV array 15
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

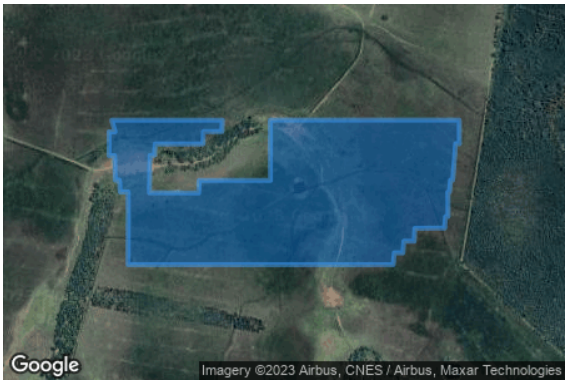
Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102156	153.044086	58.73	2.50	61.23
2	-29.102156	153.047328	63.32	2.50	65.82
3	-29.102194	153.047328	95.21	2.50	97.71
4	-29.102194	153.058594	119.73	2.50	122.23
5	-29.102550	153.058617	84.51	2.50	87.01
6	-29.102550	153.058697	82.32	2.50	84.82
7	-29.103253	153.058700	86.95	2.50	89.45
8	-29.103253	153.058464	98.42	2.50	100.92
9	-29.103636	153.058431	85.79	2.50	88.29
10	-29.103636	153.058125	71.39	2.50	73.89
11	-29.104347	153.058089	63.19	2.50	65.69
12	-29.104347	153.057872	68.64	2.50	71.14
13	-29.105078	153.057872	75.02	2.50	77.52
14	-29.105080	153.057786	73.92	2.50	76.42
15	-29.105431	153.057761	95.27	2.50	97.77
16	-29.105431	153.057622	95.06	2.50	97.56
17	-29.106164	153.057597	96.25	2.50	98.75
18	-29.106167	153.057461	85.20	2.50	87.70
19	-29.106514	153.057433	78.67	2.50	81.17
20	-29.106514	153.057292	76.66	2.50	79.16
21	-29.107410	153.057270	69.71	2.50	72.21
22	-29.107410	153.057190	70.70	2.50	73.20
23	-29.107760	153.057150	76.15	2.50	78.65
24	-29.107770	153.056900	69.23	2.50	71.73
25	-29.108870	153.056840	63.91	2.50	66.41
26	-29.108840	153.054250	69.03	2.50	71.53
27	-29.106690	153.054260	67.10	2.50	69.60
28	-29.106700	153.054510	61.84	2.50	64.34
29	-29.105460	153.054540	51.44	2.50	53.94
30	-29.105460	153.054670	46.48	2.50	48.98
31	-29.103650	153.054660	44.11	2.50	46.61
32	-29.103650	153.053990	50.89	2.50	53.39
33	-29.103260	153.053990	55.01	2.50	57.51
34	-29.103260	153.051930	50.62	2.50	53.12
35	-29.102900	153.051890	64.22	2.50	66.72
36	-29.102900	153.046260	78.81	2.50	81.31
37	-29.102530	153.046260	69.88	2.50	72.38
38	-29.102531	153.044111	81.44	2.50	83.94

Name: PV array 16
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109583	153.053697	35.88	2.50	38.38
2	-29.109580	153.053892	35.82	2.50	38.32
3	-29.108872	153.053936	34.22	2.50	36.72
4	-29.108872	153.056486	35.80	2.50	38.30
5	-29.110681	153.056581	33.60	2.50	36.10
6	-29.110680	153.057408	33.51	2.50	36.01
7	-29.110322	153.057431	33.12	2.50	35.62
8	-29.110333	153.057622	33.65	2.50	36.15
9	-29.109972	153.057656	34.81	2.50	37.31
10	-29.109969	153.057892	35.48	2.50	37.98
11	-29.109233	153.057922	37.27	2.50	39.77
12	-29.109230	153.058064	37.55	2.50	40.05
13	-29.108494	153.058144	37.24	2.50	39.74
14	-29.108494	153.061594	35.21	2.50	37.71
15	-29.108867	153.061622	34.11	2.50	36.61
16	-29.108875	153.064650	30.58	2.50	33.08
17	-29.108597	153.064578	31.08	2.50	33.58
18	-29.108494	153.064914	30.76	2.50	33.26
19	-29.107772	153.064875	32.09	2.50	34.59
20	-29.107750	153.062925	30.39	2.50	32.89
21	-29.107664	153.062525	32.23	2.50	34.73
22	-29.107419	153.062503	32.17	2.50	34.67
23	-29.107467	153.060950	34.16	2.50	36.66
24	-29.107297	153.060244	33.94	2.50	36.44
25	-29.107050	153.060219	33.92	2.50	36.42
26	-29.107044	153.059328	34.04	2.50	36.54
27	-29.106736	153.059336	34.04	2.50	36.54
28	-29.106700	153.066869	31.79	2.50	34.29
29	-29.107036	153.066903	31.47	2.50	33.97
30	-29.107036	153.067019	31.60	2.50	34.10
31	-29.108842	153.067022	33.82	2.50	36.32
32	-29.108842	153.066803	33.30	2.50	35.80
33	-29.109572	153.066800	34.25	2.50	36.75
34	-29.109570	153.066614	33.70	2.50	36.20
35	-29.109936	153.066586	34.18	2.50	36.68
36	-29.109940	153.066383	33.57	2.50	36.07
37	-29.110311	153.066380	34.11	2.50	36.61
38	-29.110310	153.066217	33.64	2.50	36.14
39	-29.110669	153.066192	34.08	2.50	36.58
40	-29.110675	153.065881	33.18	2.50	35.68
41	-29.111028	153.065858	33.66	2.50	36.16
42	-29.111028	153.058667	34.00	2.50	36.50
43	-29.111203	153.058667	34.00	2.50	36.50
44	-29.111203	153.065461	33.51	2.50	36.01
45	-29.111908	153.065461	35.73	2.50	38.23
46	-29.111908	153.065331	35.54	2.50	38.04
47	-29.112269	153.065303	35.50	2.50	38.00
48	-29.112270	153.064894	35.16	2.50	37.66
49	-29.112997	153.064853	35.92	2.50	38.42
50	-29.112997	153.063419	33.64	2.50	36.14
51	-29.112650	153.063394	34.07	2.50	36.57
52	-29.112639	153.061467	31.62	2.50	34.12
53	-29.112269	153.061444	32.22	2.50	34.72
54	-29.112264	153.058369	34.15	2.50	36.65
55	-29.111908	153.058342	34.08	2.50	36.58
56	-29.111908	153.055928	33.83	2.50	36.33
57	-29.111547	153.055900	33.61	2.50	36.11
58	-29.111550	153.053644	40.15	2.50	42.65

Name: PV array 17
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102197	153.059017	39.95	2.50	42.45
2	-29.102194	153.062817	37.76	2.50	40.26
3	-29.102533	153.062803	35.96	2.50	38.46
4	-29.102539	153.062167	38.22	2.50	40.72
5	-29.102906	153.062150	38.04	2.50	40.54
6	-29.102910	153.060506	39.98	2.50	42.48
7	-29.103247	153.060483	38.09	2.50	40.59
8	-29.103253	153.060331	35.83	2.50	38.33
9	-29.104367	153.060311	35.23	2.50	37.73
10	-29.104375	153.062003	35.00	2.50	37.50
11	-29.103994	153.062019	35.26	2.50	37.76
12	-29.104000	153.064469	35.33	2.50	37.83
13	-29.102194	153.064467	41.33	2.50	43.83
14	-29.102194	153.070958	35.53	2.50	38.03
15	-29.102900	153.070964	31.99	2.50	34.49
16	-29.102900	153.070833	34.31	2.50	36.81
17	-29.103986	153.070736	38.09	2.50	40.59
18	-29.103992	153.070656	36.86	2.50	39.36
19	-29.104342	153.070622	35.58	2.50	38.08
20	-29.104344	153.070567	35.32	2.50	37.82
21	-29.105078	153.070575	39.57	2.50	42.07
22	-29.105080	153.070486	39.78	2.50	42.28
23	-29.105425	153.070458	37.46	2.50	39.96
24	-29.105431	153.069433	34.45	2.50	36.95
25	-29.105819	153.069408	43.72	2.50	46.22
26	-29.105819	153.069053	44.69	2.50	47.19
27	-29.106167	153.069022	39.39	2.50	41.89
28	-29.106167	153.068725	33.07	2.50	35.57
29	-29.106519	153.068689	38.03	2.50	40.53
30	-29.106520	153.059578	36.08	2.50	38.58
31	-29.104344	153.059583	36.72	2.50	39.22
32	-29.104347	153.059308	37.07	2.50	39.57
33	-29.103989	153.059278	37.85	2.50	40.35
34	-29.103989	153.059139	38.21	2.50	40.71
35	-29.103253	153.059111	40.68	2.50	43.18
36	-29.103253	153.058922	39.83	2.50	42.33
37	-29.102544	153.058922	38.08	2.50	40.58
38	-29.102544	153.059133	37.66	2.50	40.16

Name: PV array 18
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109586	153.069572	30.93	2.50	33.43
2	-29.109592	153.071361	29.24	2.50	31.74
3	-29.109972	153.071386	29.96	2.50	32.46
4	-29.109978	153.072467	30.00	2.50	32.50
5	-29.110311	153.072500	30.00	2.50	32.50
6	-29.110319	153.073303	31.15	2.50	33.65
7	-29.110672	153.073361	30.64	2.50	33.14
8	-29.112108	153.073353	28.68	2.50	31.18
9	-29.112119	153.072439	30.64	2.50	33.14
10	-29.112300	153.072442	30.87	2.50	33.37
11	-29.112300	153.074256	29.00	2.50	31.50
12	-29.112653	153.074275	29.74	2.50	32.24
13	-29.112661	153.074633	29.77	2.50	32.27
14	-29.113006	153.074628	30.79	2.50	33.29
15	-29.113006	153.076522	29.89	2.50	32.39
16	-29.112797	153.076511	29.59	2.50	32.09
17	-29.112797	153.078297	26.43	2.50	28.93
18	-29.113372	153.078353	27.13	2.50	29.63
19	-29.114981	153.078347	29.88	2.50	32.38
20	-29.114969	153.078094	29.97	2.50	32.47
21	-29.115317	153.078075	30.26	2.50	32.76
22	-29.115320	153.076460	34.27	2.50	36.77
23	-29.115528	153.076456	33.21	2.50	35.71
24	-29.115525	153.070742	31.94	2.50	34.44
25	-29.114467	153.070742	30.74	2.50	33.24
26	-29.114467	153.070797	30.48	2.50	32.98
27	-29.113725	153.070797	30.05	2.50	32.55
28	-29.113725	153.070239	31.57	2.50	34.07
29	-29.113350	153.070219	31.26	2.50	33.76
30	-29.113350	153.070125	31.37	2.50	33.87
31	-29.113000	153.070100	31.06	2.50	33.56
32	-29.113000	153.069572	31.53	2.50	34.03

Name: PV array 19
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.095008	153.049878	30.65	2.50	33.15
2	-29.095006	153.067636	55.88	2.50	58.38
3	-29.095361	153.067678	52.05	2.50	54.55
4	-29.095372	153.070639	54.94	2.50	57.44
5	-29.095722	153.070672	51.58	2.50	54.08
6	-29.095733	153.071469	49.76	2.50	52.26
7	-29.097678	153.071458	43.37	2.50	45.87
8	-29.097692	153.071583	43.76	2.50	46.26
9	-29.099842	153.071569	35.11	2.50	37.61
10	-29.099842	153.071353	33.97	2.50	36.47
11	-29.100928	153.071347	33.60	2.50	36.10
12	-29.100928	153.071208	33.60	2.50	36.10
13	-29.101667	153.071186	35.03	2.50	37.53
14	-29.101658	153.071047	35.08	2.50	37.58
15	-29.102022	153.071031	35.02	2.50	37.52
16	-29.102020	153.047342	32.77	2.50	35.27
17	-29.102114	153.047336	32.68	2.50	35.18
18	-29.102111	153.044069	34.04	2.50	36.54
19	-29.102019	153.044086	34.00	2.50	36.50
20	-29.102014	153.039336	38.65	2.50	41.15
21	-29.099867	153.039331	37.84	2.50	40.34
22	-29.099861	153.040528	36.06	2.50	38.56
23	-29.099494	153.040547	35.30	2.50	37.80
24	-29.099494	153.043892	32.13	2.50	34.63
25	-29.100950	153.043914	33.56	2.50	36.06
26	-29.100958	153.045236	34.06	2.50	36.56
27	-29.100580	153.045280	34.35	2.50	36.85
28	-29.100570	153.046140	33.76	2.50	36.26
29	-29.100220	153.046170	35.46	2.50	37.96
30	-29.100220	153.046440	35.17	2.50	37.67
31	-29.100570	153.046470	33.65	2.50	36.15
32	-29.100570	153.046810	33.54	2.50	36.04
33	-29.100220	153.046830	34.76	2.50	37.26
34	-29.100220	153.048570	34.30	2.50	36.80
35	-29.099860	153.048580	34.26	2.50	36.76
36	-29.099860	153.055040	30.23	2.50	32.73
37	-29.097520	153.055040	29.19	2.50	31.69
38	-29.097508	153.049244	29.61	2.50	32.11
39	-29.096461	153.049253	28.44	2.50	30.94

Name: PV array 2
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103011	153.028981	45.87	2.50	48.37
2	-29.103033	153.031867	42.45	2.50	44.95
3	-29.105117	153.031872	39.58	2.50	42.08
4	-29.105139	153.029231	43.48	2.50	45.98
5	-29.104064	153.029211	43.73	2.50	46.23
6	-29.104044	153.028956	41.58	2.50	44.08

Name: PV array 20
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.097756	153.046586	30.04	2.50	32.54
2	-29.097722	153.046661	30.51	2.50	33.01
3	-29.097722	153.050819	31.18	2.50	33.68
4	-29.098397	153.050817	30.55	2.50	33.05
5	-29.098400	153.050675	29.78	2.50	32.28
6	-29.098433	153.050681	29.76	2.50	32.26
7	-29.098430	153.049186	29.93	2.50	32.43
8	-29.098747	153.049158	31.20	2.50	33.70
9	-29.098744	153.049008	30.31	2.50	32.81
10	-29.098781	153.048992	30.37	2.50	32.87
11	-29.098789	153.045769	30.60	2.50	33.10
12	-29.098081	153.045769	31.10	2.50	33.60
13	-29.098089	153.046567	32.80	2.50	35.30

Name: PV array 21
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.115711	153.068300	41.50	2.50	44.00
2	-29.115708	153.077564	41.51	2.50	44.01
3	-29.116775	153.077617	41.78	2.50	44.28
4	-29.116775	153.077372	41.72	2.50	44.22
5	-29.117500	153.077344	41.23	2.50	43.73
6	-29.117500	153.077214	40.70	2.50	43.20
7	-29.117853	153.077178	40.00	2.50	42.50
8	-29.117858	153.077039	40.44	2.50	42.94
9	-29.118383	153.077014	41.50	2.50	44.00
10	-29.118383	153.076644	41.18	2.50	43.68
11	-29.118739	153.076631	40.28	2.50	42.78
12	-29.118739	153.075653	39.12	2.50	41.62
13	-29.119083	153.075622	38.34	2.50	40.84
14	-29.119083	153.072625	39.10	2.50	41.60
15	-29.118736	153.072594	40.48	2.50	42.98
16	-29.118736	153.068858	40.41	2.50	42.91
17	-29.118383	153.068831	42.05	2.50	44.55
18	-29.118383	153.067967	42.40	2.50	44.90
19	-29.116806	153.067970	42.22	2.50	44.72
20	-29.116810	153.068106	42.02	2.50	44.52
21	-29.116053	153.068131	41.65	2.50	44.15
22	-29.116050	153.068272	42.27	2.50	44.77

Name: PV array 22
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.114775	153.080247	54.75	2.50	57.25
2	-29.114775	153.080583	53.92	2.50	56.42
3	-29.115122	153.080614	56.19	2.50	58.69
4	-29.115125	153.080961	59.96	2.50	62.46
5	-29.115822	153.080961	55.06	2.50	57.56
6	-29.115822	153.080836	49.55	2.50	52.05
7	-29.116564	153.080797	49.76	2.50	52.26
8	-29.116564	153.080217	46.19	2.50	48.69
9	-29.116928	153.080192	43.83	2.50	46.33
10	-29.116928	153.079286	43.59	2.50	46.09
11	-29.117444	153.079256	45.43	2.50	47.93
12	-29.117444	153.078672	40.64	2.50	43.14
13	-29.117797	153.078642	41.60	2.50	44.10
14	-29.117797	153.078194	41.85	2.50	44.35
15	-29.117103	153.078194	41.39	2.50	43.89
16	-29.117103	153.078386	41.00	2.50	43.50
17	-29.116203	153.078425	51.19	2.50	53.69
18	-29.116208	153.078614	48.69	2.50	51.19
19	-29.115853	153.078644	55.75	2.50	58.25
20	-29.115853	153.079003	60.58	2.50	63.08
21	-29.115475	153.079028	56.40	2.50	58.90
22	-29.115481	153.079553	48.27	2.50	50.77
23	-29.115125	153.079589	49.11	2.50	51.61
24	-29.115128	153.080219	57.49	2.50	59.99

Name: PV array 23
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.119964	153.067553	34.62	2.50	37.12
2	-29.119931	153.071286	34.59	2.50	37.09
3	-29.120281	153.071325	33.95	2.50	36.45
4	-29.120344	153.073556	31.66	2.50	34.16
5	-29.120458	153.073553	31.39	2.50	33.89
6	-29.120464	153.075878	34.40	2.50	36.90
7	-29.120114	153.075856	33.35	2.50	35.85
8	-29.120114	153.078875	29.83	2.50	32.33
9	-29.120853	153.078881	29.81	2.50	32.31
10	-29.120853	153.078372	29.48	2.50	31.98
11	-29.121589	153.078375	30.72	2.50	33.22
12	-29.121597	153.077969	30.34	2.50	32.84
13	-29.121947	153.077806	30.38	2.50	32.88
14	-29.121947	153.077344	29.07	2.50	31.57
15	-29.122303	153.077336	29.04	2.50	31.54
16	-29.122294	153.075361	32.04	2.50	34.54
17	-29.121594	153.075361	34.77	2.50	37.27
18	-29.121586	153.073336	29.42	2.50	31.92
19	-29.121239	153.073328	29.58	2.50	32.08
20	-29.121294	153.070856	32.46	2.50	34.96
21	-29.121714	153.070683	31.91	2.50	34.41
22	-29.121714	153.070081	32.74	2.50	35.24
23	-29.122067	153.069833	32.73	2.50	35.23
24	-29.122103	153.067342	29.46	2.50	31.96
25	-29.121022	153.067347	32.75	2.50	35.25
26	-29.121022	153.067553	32.13	2.50	34.63

Name: PV array 3
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103158	153.033744	37.67	2.50	40.17
2	-29.103161	153.034311	44.09	2.50	46.59
3	-29.103506	153.034347	49.91	2.50	52.41
4	-29.103506	153.035361	50.39	2.50	52.89
5	-29.103864	153.035389	48.02	2.50	50.52
6	-29.103864	153.035694	46.05	2.50	48.55
7	-29.104236	153.035733	43.39	2.50	45.89
8	-29.104242	153.036075	41.79	2.50	44.29
9	-29.105681	153.036081	43.07	2.50	45.57
10	-29.105678	153.035300	40.37	2.50	42.87
11	-29.105300	153.035261	38.35	2.50	40.85
12	-29.105300	153.033747	38.15	2.50	40.65

Name: PV array 4
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.100956	153.029697	61.70	2.50	64.20
2	-29.100960	153.033861	52.05	2.50	54.55
3	-29.102319	153.033872	41.22	2.50	43.72
4	-29.102206	153.029711	55.91	2.50	58.41

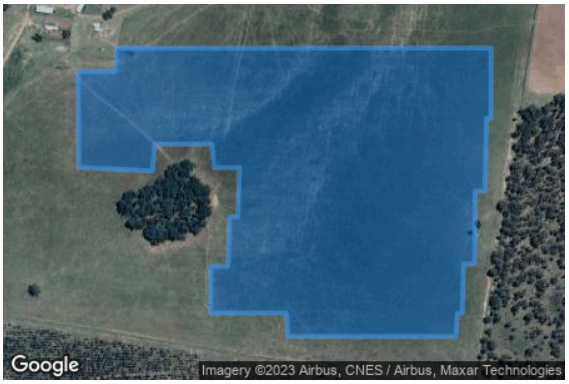
Name: PV array 5
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096244	153.020017	63.68	2.50	66.18
2	-29.096258	153.021258	58.95	2.50	61.45
3	-29.096144	153.021281	58.13	2.50	60.63
4	-29.096142	153.022628	52.57	2.50	55.07
5	-29.096497	153.022653	51.62	2.50	54.12
6	-29.096506	153.025769	53.56	2.50	56.06
7	-29.096856	153.025817	52.73	2.50	55.23
8	-29.096858	153.026111	52.97	2.50	55.47
9	-29.097494	153.026317	52.15	2.50	54.65
10	-29.097789	153.027056	53.44	2.50	55.94
11	-29.098275	153.027050	51.11	2.50	53.61
12	-29.098319	153.019792	51.02	2.50	53.52
13	-29.098064	153.019775	50.99	2.50	53.49
14	-29.097667	153.020156	52.49	2.50	54.99
15	-29.097636	153.020281	52.49	2.50	54.99
16	-29.096947	153.020283	54.63	2.50	57.13
17	-29.096931	153.020225	54.40	2.50	56.90
18	-29.096930	153.020225	52.63	2.50	55.13
19	-29.096930	153.020225	56.59	2.50	59.09

Name: PV array 6
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.098411	153.019708	52.49	2.50	54.99
2	-29.098410	153.022644	54.27	2.50	56.77
3	-29.098453	153.022644	54.17	2.50	56.67
4	-29.098453	153.025644	52.52	2.50	55.02
5	-29.098406	153.025644	52.52	2.50	55.02
6	-29.098410	153.026583	50.97	2.50	53.47
7	-29.098456	153.026583	50.96	2.50	53.46
8	-29.098460	153.028092	50.98	2.50	53.48
9	-29.098806	153.028111	49.50	2.50	52.00
10	-29.098814	153.028110	49.50	2.50	52.00
11	-29.100568	153.028106	43.03	2.50	45.53
12	-29.100578	153.028090	43.04	2.50	45.54
13	-29.100586	153.028083	43.04	2.50	45.54
14	-29.100586	153.024706	46.96	2.50	49.46
15	-29.100236	153.024675	47.84	2.50	50.34
16	-29.100236	153.024317	47.76	2.50	50.26
17	-29.099511	153.024286	51.07	2.50	53.57
18	-29.099503	153.021261	52.06	2.50	54.56
19	-29.099153	153.021256	51.64	2.50	54.14
20	-29.099147	153.019714	53.21	2.50	55.71

Name: PV array 7
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102553	153.036561	61.89	2.50	64.39
2	-29.102550	153.037192	57.69	2.50	60.19
3	-29.102203	153.037222	56.56	2.50	59.06
4	-29.102200	153.043656	57.79	2.50	60.29
5	-29.103258	153.043656	59.96	2.50	62.46
6	-29.103258	153.043578	60.09	2.50	62.59
7	-29.104339	153.043550	61.32	2.50	63.82
8	-29.104344	153.043381	63.82	2.50	66.32
9	-29.105428	153.043375	64.55	2.50	67.05
10	-29.105430	153.043181	65.16	2.50	67.66
11	-29.106169	153.043158	66.84	2.50	69.34
12	-29.106170	153.043078	69.07	2.50	71.57
13	-29.106517	153.043053	71.34	2.50	73.84
14	-29.106517	153.040167	72.19	2.50	74.69
15	-29.106167	153.040136	70.00	2.50	72.50
16	-29.106167	153.038839	69.02	2.50	71.52
17	-29.105467	153.038839	69.78	2.50	72.28
18	-29.105470	153.039136	74.83	2.50	77.33
19	-29.104728	153.039169	75.24	2.50	77.74
20	-29.104728	153.039303	72.87	2.50	75.37
21	-29.103992	153.039336	67.81	2.50	70.31
22	-29.103990	153.038897	63.04	2.50	65.54
23	-29.103636	153.038858	60.65	2.50	63.15
24	-29.103640	153.037875	61.34	2.50	63.84
25	-29.104042	153.037839	65.75	2.50	68.25
26	-29.103986	153.036569	63.73	2.50	66.23

Name: PV array 8
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.092536	153.034539	49.37	2.50	51.87
2	-29.092539	153.034797	46.57	2.50	49.07
3	-29.091453	153.034833	44.03	2.50	46.53
4	-29.091453	153.034972	42.10	2.50	44.60
5	-29.091078	153.034981	41.53	2.50	44.03
6	-29.091078	153.035514	38.85	2.50	41.35
7	-29.091175	153.035525	37.65	2.50	40.15
8	-29.091308	153.036322	36.36	2.50	38.86
9	-29.092222	153.043542	34.71	2.50	37.21
10	-29.092350	153.043533	33.71	2.50	36.21
11	-29.092544	153.045875	34.18	2.50	36.68
12	-29.092803	153.045858	35.67	2.50	38.17
13	-29.092858	153.048208	36.30	2.50	38.80
14	-29.093097	153.049672	36.65	2.50	39.15
15	-29.093600	153.049675	36.09	2.50	38.59
16	-29.093600	153.034550	36.90	2.50	39.40
17	-29.093600	153.034550	38.56	2.50	41.06
18	-29.093600	153.034550	40.09	2.50	42.59
19	-29.093600	153.034550	43.30	2.50	45.80
20	-29.093600	153.034550	46.85	2.50	49.35
21	-29.093600	153.034550	50.12	2.50	52.62
22	-29.093600	153.034550	50.80	2.50	53.30

Name: PV array 9
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.093742	153.034075	47.59	2.50	50.09
2	-29.093742	153.047911	29.17	2.50	31.67
3	-29.093636	153.047906	29.32	2.50	31.82
4	-29.093640	153.047924	29.32	2.50	31.82
5	-29.094433	153.049239	29.11	2.50	31.61
6	-29.094433	153.049097	29.00	2.50	31.50
7	-29.094797	153.049075	29.37	2.50	31.87
8	-29.094797	153.048883	29.37	2.50	31.87
9	-29.095178	153.048853	29.93	2.50	32.43
10	-29.095178	153.048714	29.93	2.50	32.43
11	-29.095531	153.048686	29.56	2.50	32.06
12	-29.095533	153.048492	29.56	2.50	32.06
13	-29.095894	153.048458	29.04	2.50	31.54
14	-29.095890	153.034044	50.01	2.50	52.51

Route Receptors

Name: Avenue Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.104310	153.008342	42.58	2.40	44.98
2	-29.100917	153.012869	48.57	2.40	50.97
3	-29.099510	153.019414	55.62	2.40	58.02
4	-29.101310	153.026194	44.13	2.40	46.53
5	-29.100501	153.029799	39.40	2.40	41.80
6	-29.100182	153.033833	38.23	2.40	40.63
7	-29.099919	153.034691	38.36	2.40	40.76
8	-29.099619	153.036214	38.31	2.40	40.71
9	-29.099788	153.037373	38.57	2.40	40.97
10	-29.098748	153.043470	32.00	2.40	34.40
11	-29.096820	153.048507	29.92	2.40	32.32
12	-29.092638	153.050803	31.00	2.40	33.40
13	-29.089901	153.051575	41.28	2.40	43.68
14	-29.088341	153.054683	47.04	2.40	49.44
15	-29.087047	153.056636	55.63	2.40	58.03
16	-29.086241	153.058610	59.01	2.40	61.41
17	-29.084685	153.059683	59.79	2.40	62.19

Name: Main Camp Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.130769	153.064031	35.05	2.40	37.45
2	-29.130881	153.067035	33.07	2.40	35.47
3	-29.130450	153.072142	26.52	2.40	28.92
4	-29.129644	153.084169	26.00	2.40	28.40

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (m)	Height (m)
OP 1	1	-29.098436	153.005919	57.00	1.50
OP 2	2	-29.098614	153.005617	58.18	1.50
OP 3	3	-29.098942	153.009817	58.46	1.50
OP 4	4	-29.104081	153.007164	43.97	1.50
OP 5	5	-29.105522	153.007317	42.09	1.50
OP 6	6	-29.104364	153.005417	45.19	1.50
OP 7	7	-29.105019	153.006536	45.10	1.50
OP 8	8	-29.117603	153.001347	38.65	1.50
OP 9	9	-29.083078	153.055558	73.37	1.50
OP 10	10	-29.076967	153.057103	64.26	1.50
OP 11	11	-29.080647	153.066289	49.73	1.50
OP 12	12	-29.083183	153.068906	49.76	1.50
OP 13	13	-29.080508	153.075694	58.03	1.50
OP 14	14	-29.072514	153.073319	58.38	1.50
OP 15	15	-29.079144	153.061150	62.76	1.50
OP 16	16	-29.084792	153.057350	64.28	1.50
OP 17	17	-29.087883	153.058739	46.82	1.50
OP 18	18	-29.081653	153.067194	53.77	1.50
OP 19	19	-29.085114	153.060258	60.28	1.50
OP 20	20	-29.090203	153.055103	40.01	1.50
OP 21	21	-29.106228	153.101144	34.31	1.50
OP 22	22	-29.084800	153.063742	69.22	1.50
OP 23	23	-29.084386	153.065572	66.41	1.50
OP 24	24	-29.084969	153.068331	50.01	1.50
OP 25	25	-29.081494	153.054019	74.64	1.50
OP 26	26	-29.131783	153.064194	34.19	1.50
OP 27	27	-29.132158	153.065619	34.34	1.50
OP 28	28	-29.131331	153.065711	36.18	1.50
OP 29	29	-29.138036	153.099008	43.00	1.50
OP 30	30	-29.134267	153.099875	41.44	1.50
OP 31	31	-29.138078	153.100536	38.27	1.50
OP 32	32	-29.132817	153.101467	42.08	1.50
OP 33	33	-29.134686	153.059939	31.67	1.50

Glare Analysis Results

Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	34,804	580.1	24,005	400.1	-
PV array 15	SA tracking	SA tracking	586	9.8	126	2.1	-
PV array 16	SA tracking	SA tracking	1,828	30.5	469	7.8	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	1,036	17.3	0	0.0	-
PV array 19	SA tracking	SA tracking	1,519	25.3	2,042	34.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	306	5.1	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	177	3.0	0	0.0	-
PV array 23	SA tracking	SA tracking	1,068	17.8	0	0.0	-
PV array 3	SA tracking	SA tracking	1,073	17.9	0	0.0	-
PV array 4	SA tracking	SA tracking	220	3.7	1	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	2,141	35.7	5,385	89.8	-
PV array 7	SA tracking	SA tracking	563	9.4	376	6.3	-
PV array 8	SA tracking	SA tracking	9,942	165.7	18	0.3	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Avenue Road	24,413	406.9	32,041	534.0
Main Camp Road	4,270	71.2	126	2.1

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	226	3.8	0	0.0
OP 2	231	3.9	0	0.0
OP 3	198	3.3	0	0.0
OP 4	150	2.5	43	0.7
OP 5	184	3.1	63	1.1
OP 6	139	2.3	36	0.6
OP 7	253	4.2	113	1.9
OP 8	613	10.2	0	0.0
OP 9	1,345	22.4	0	0.0
OP 10	48	0.8	0	0.0
OP 11	951	15.8	0	0.0
OP 12	209	3.5	0	0.0
OP 13	334	5.6	0	0.0
OP 14	903	15.1	0	0.0
OP 15	1,095	18.2	0	0.0
OP 16	1,265	21.1	0	0.0
OP 17	80	1.3	0	0.0
OP 18	712	11.9	0	0.0
OP 19	444	7.4	0	0.0
OP 20	0	0.0	0	0.0
OP 21	315	5.2	0	0.0
OP 22	298	5.0	0	0.0
OP 23	244	4.1	0	0.0
OP 24	115	1.9	0	0.0
OP 25	417	7.0	0	0.0
OP 26	3,022	50.4	0	0.0
OP 27	2,729	45.5	0	0.0
OP 28	2,667	44.5	0	0.0
OP 29	635	10.6	0	0.0
OP 30	1,108	18.5	0	0.0
OP 31	717	11.9	0	0.0
OP 32	1,298	21.6	0	0.0
OP 33	3,635	60.6	0	0.0

PV: PV array 1 no glare found

Receptor results ordered by category of glare

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

PV array 1 and Route: Avenue Road

No glare found

PV array 1 and Route: Main Camp Road

No glare found

PV array 1 and OP 1

No glare found

PV array 1 and OP 2

No glare found

PV array 1 and OP 3

No glare found

PV array 1 and OP 4

No glare found

PV array 1 and OP 5

No glare found

PV array 1 and OP 6

No glare found

PV array 1 and OP 7

No glare found

PV array 1 and OP 8

No glare found

PV array 1 and OP 9

No glare found

PV array 1 and OP 10

No glare found

PV array 1 and OP 11

No glare found

PV array 1 and OP 12

No glare found

PV array 1 and OP 13

No glare found

PV array 1 and OP 14

No glare found

PV array 1 and OP 15

No glare found

PV array 1 and OP 16

No glare found

PV array 1 and OP 17

No glare found

PV array 1 and OP 18

No glare found

PV array 1 and OP 19

No glare found

PV array 1 and OP 20

No glare found

PV array 1 and OP 21

No glare found

PV array 1 and OP 22

No glare found

PV array 1 and OP 23

No glare found

PV array 1 and OP 24

No glare found

PV array 1 and OP 25

No glare found

PV array 1 and OP 26

No glare found

PV array 1 and OP 27

No glare found

PV array 1 and OP 28

No glare found

PV array 1 and OP 29

No glare found

PV array 1 and OP 30

No glare found

PV array 1 and OP 31

No glare found

PV array 1 and OP 32

No glare found

PV array 1 and OP 33

No glare found

PV: PV array 10 potential temporary after-image

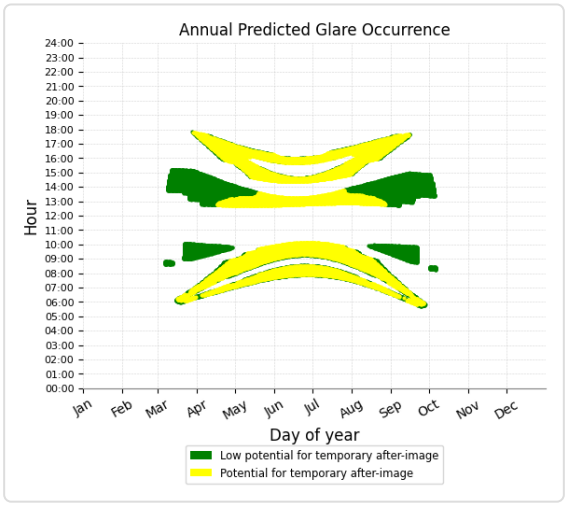
Receptor results ordered by category of glare

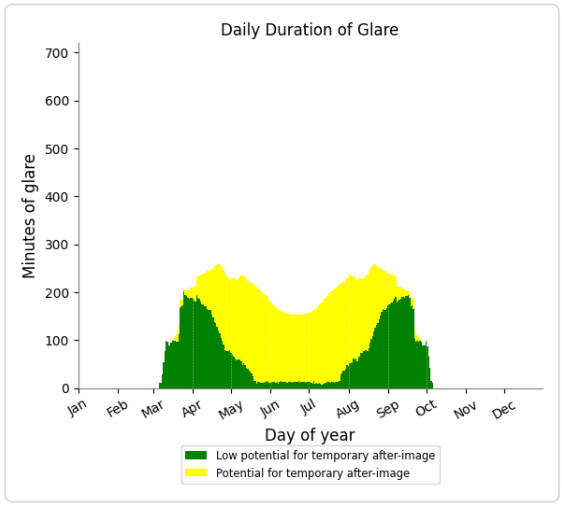
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	17,442	290.7	23,750	395.8
Main Camp Road	2,262	37.7	0	0.0
OP 4	131	2.2	43	0.7
OP 5	184	3.1	63	1.1
OP 6	139	2.3	36	0.6
OP 7	253	4.2	113	1.9
OP 8	418	7.0	0	0.0
OP 26	3,022	50.4	0	0.0
OP 27	2,729	45.5	0	0.0
OP 28	2,667	44.5	0	0.0
OP 29	512	8.5	0	0.0
OP 30	470	7.8	0	0.0
OP 31	538	9.0	0	0.0
OP 32	402	6.7	0	0.0
OP 33	3,635	60.6	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0

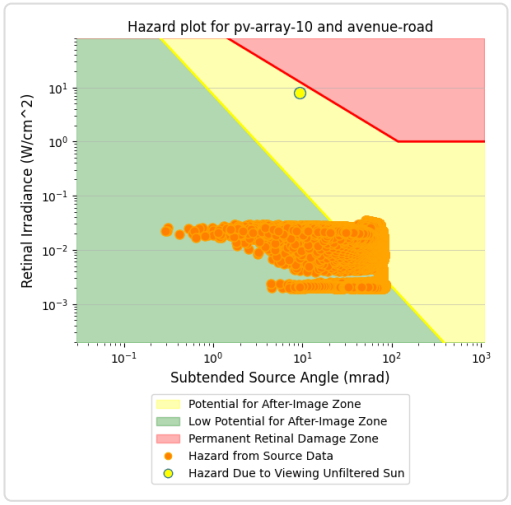
PV array 10 and Route: Avenue Road

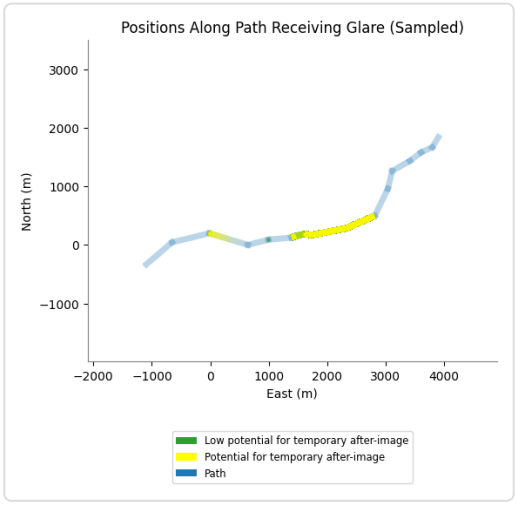
Yellow glare: 23,750 min.

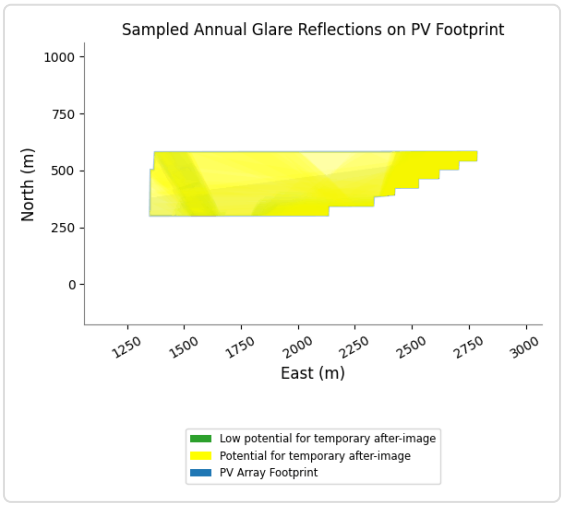
Green glare: 17,442 min.







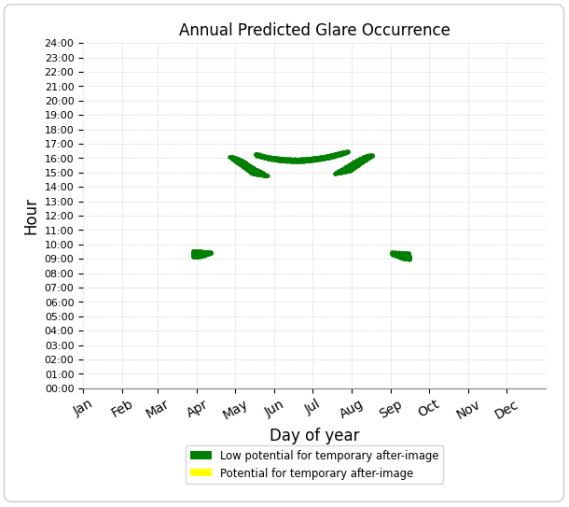


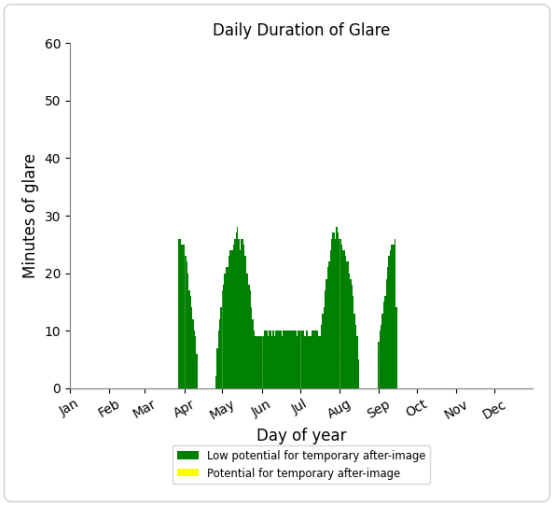


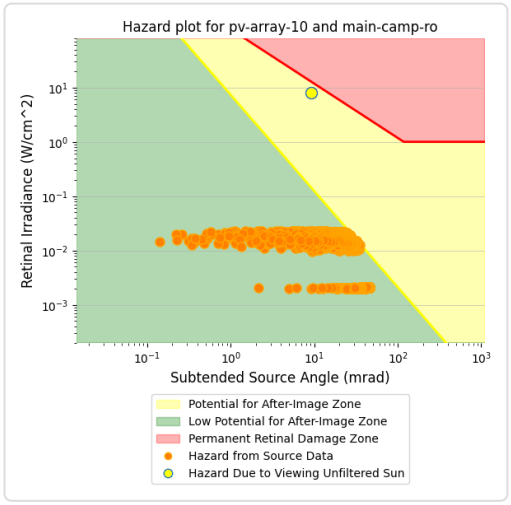
PV array 10 and Route: Main Camp Road

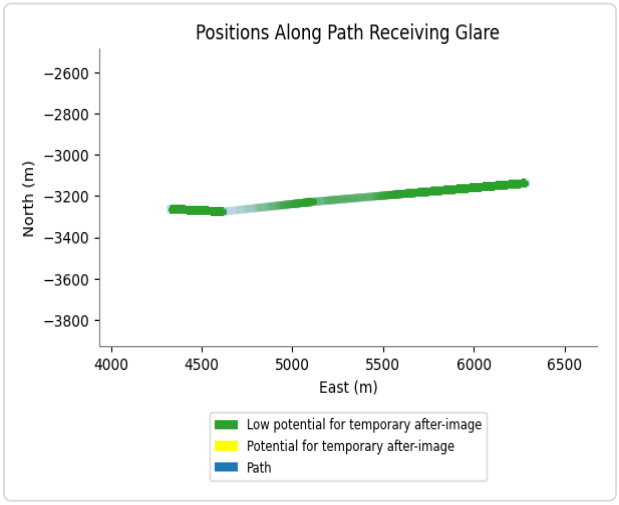
Yellow glare: none

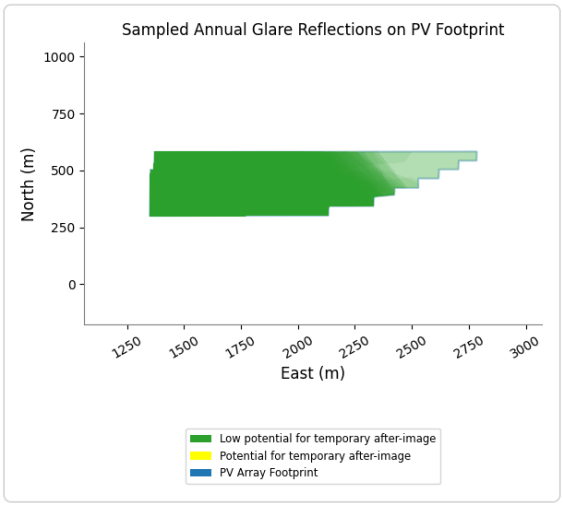
Green glare: 2,262 min.







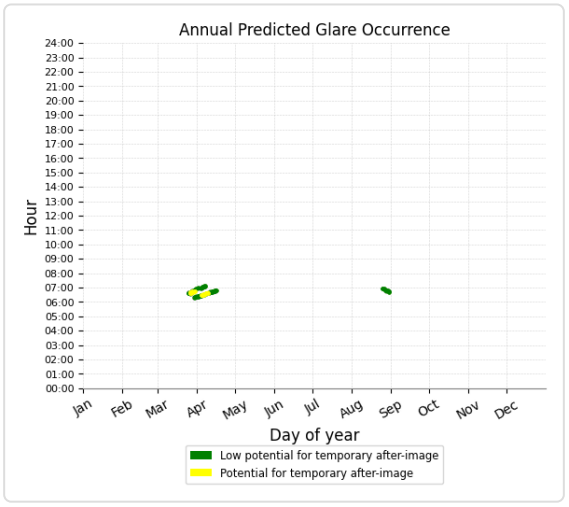


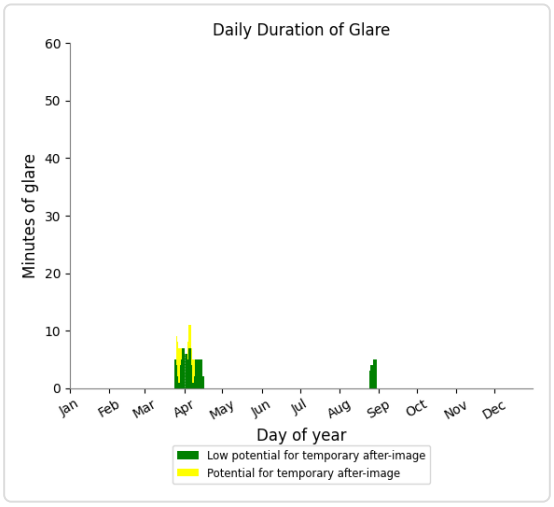


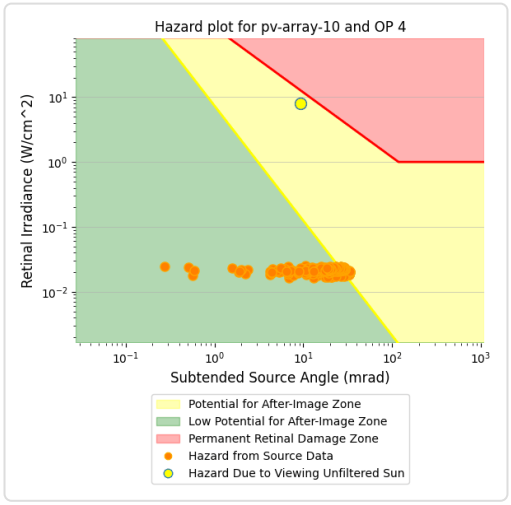
PV array 10 and OP 4

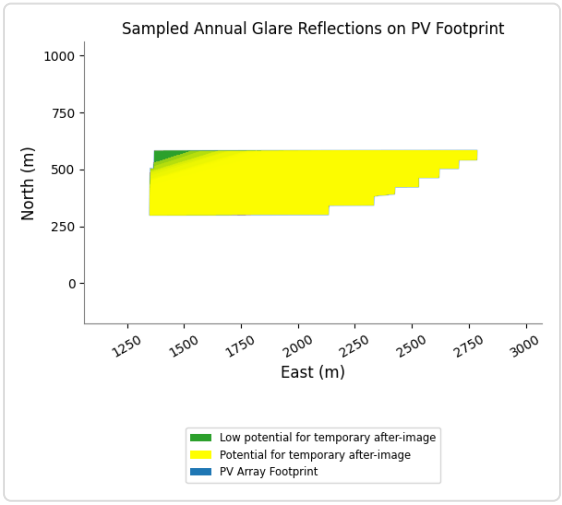
Yellow glare: 43 min.

Green glare: 131 min.





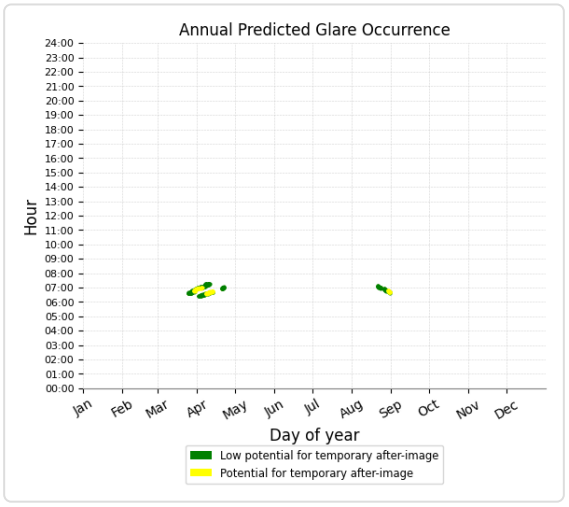


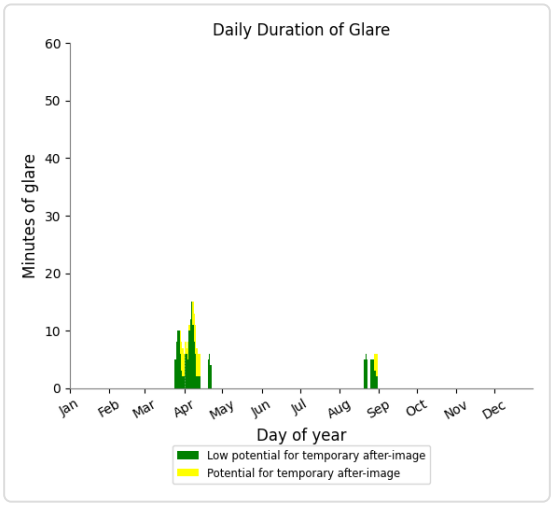


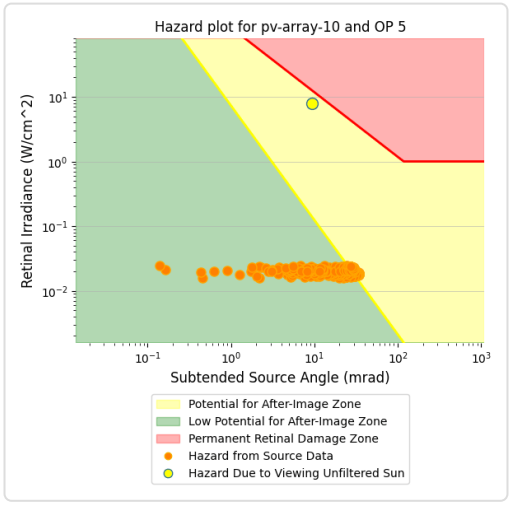
PV array 10 and OP 5

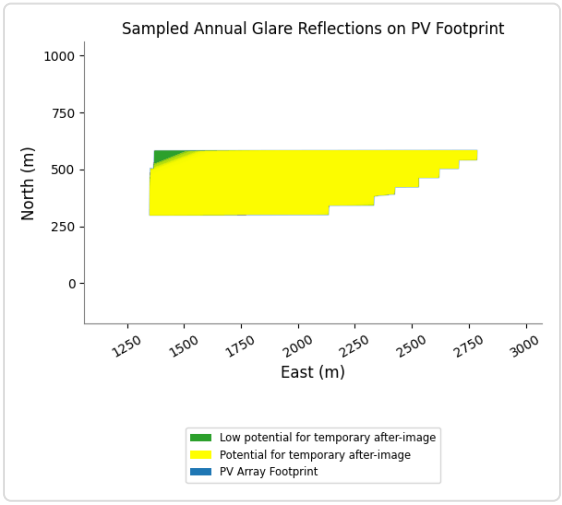
Yellow glare: 63 min.

Green glare: 184 min.





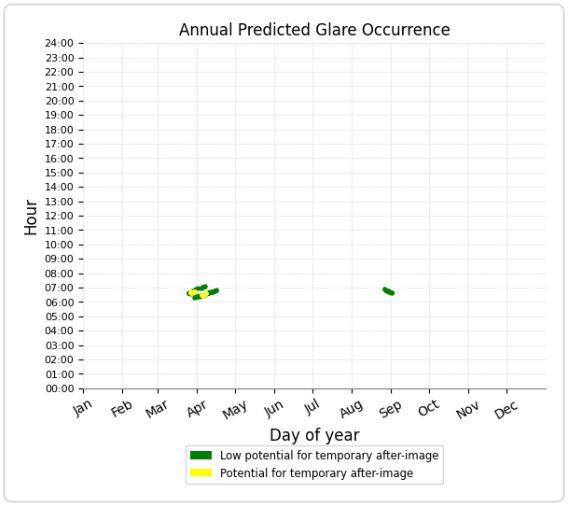


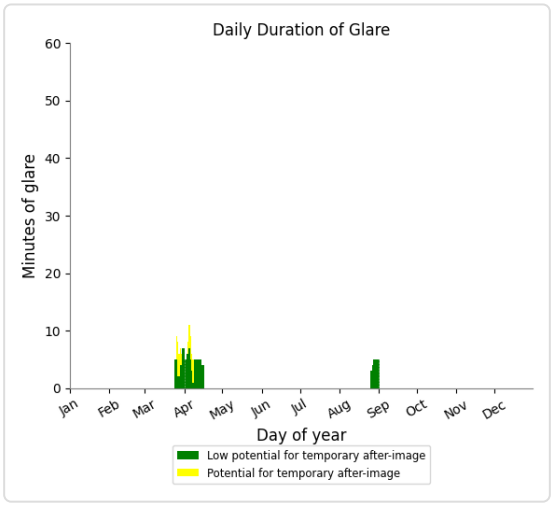


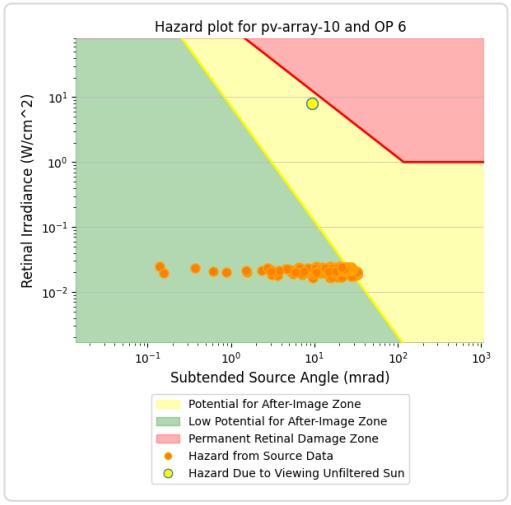
PV array 10 and OP 6

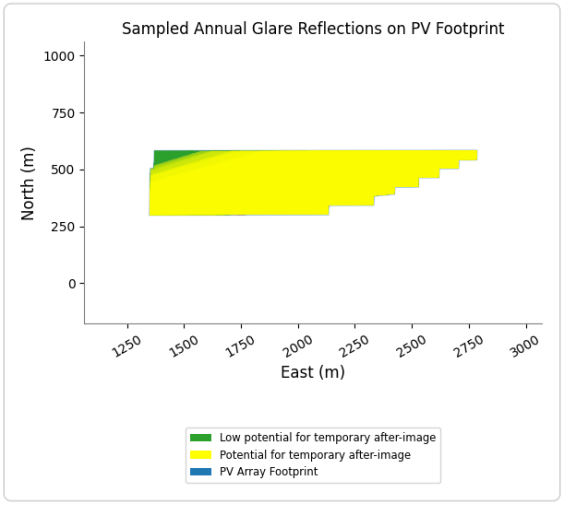
Yellow glare: 36 min.

Green glare: 139 min.





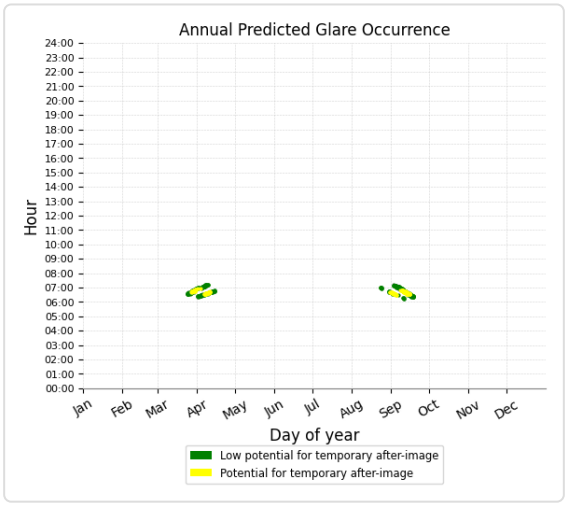


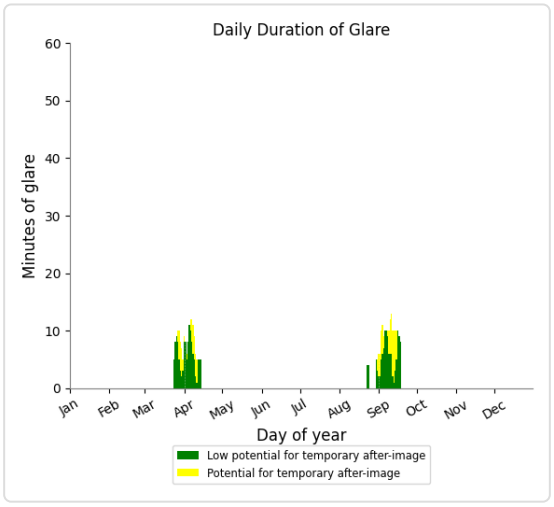


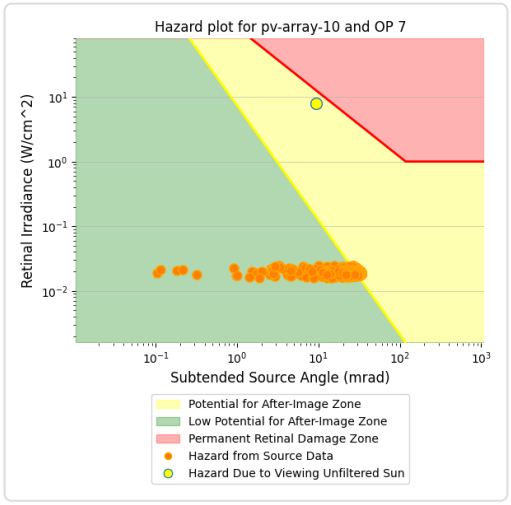
PV array 10 and OP 7

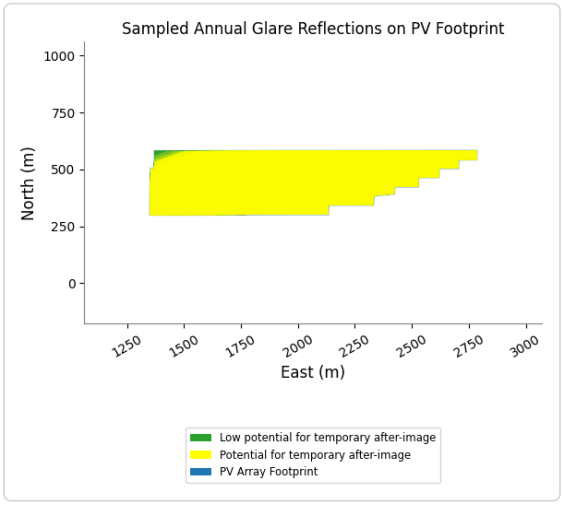
Yellow glare: 113 min.

Green glare: 253 min.





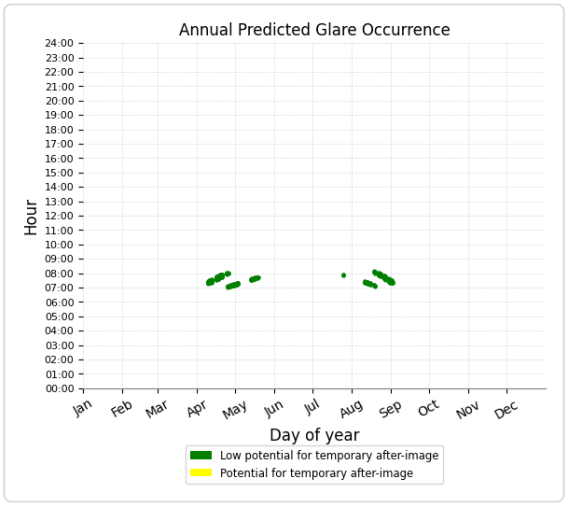


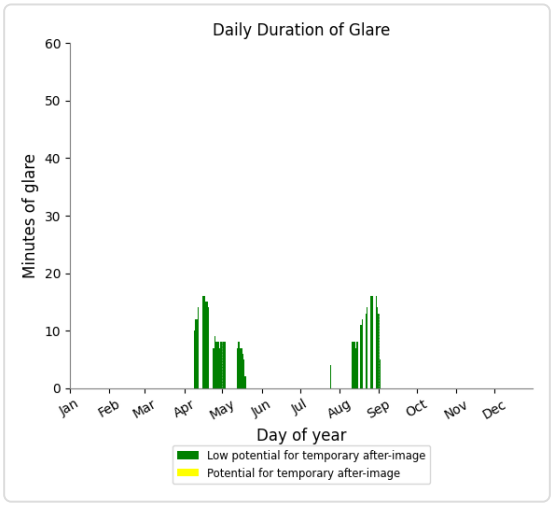


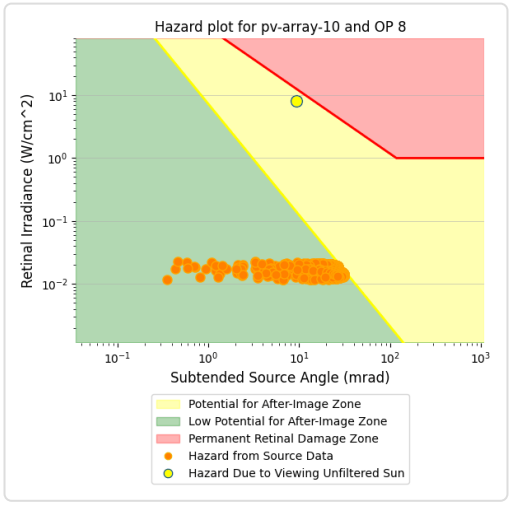
PV array 10 and OP 8

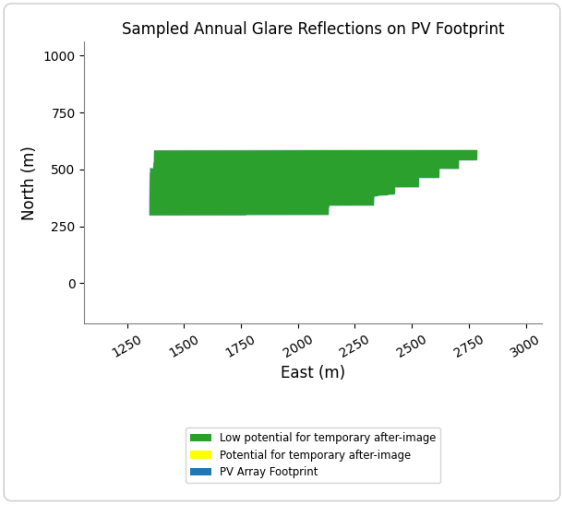
Yellow glare: none

Green glare: 418 min.





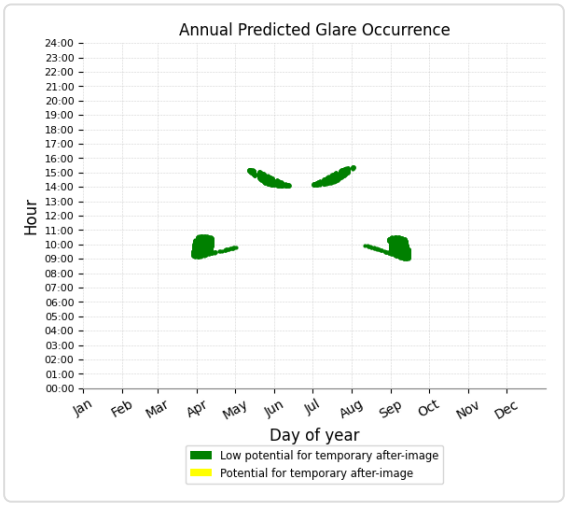


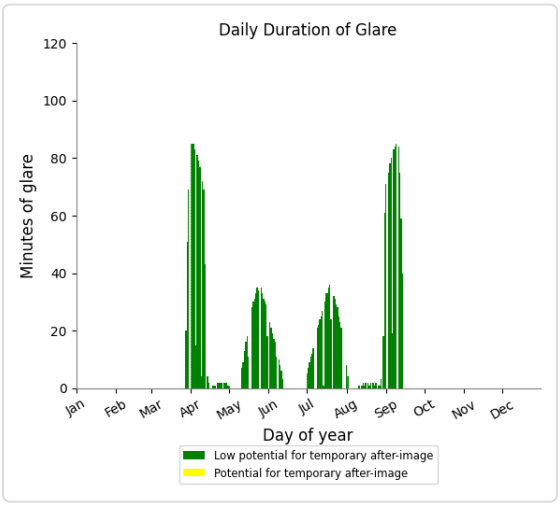


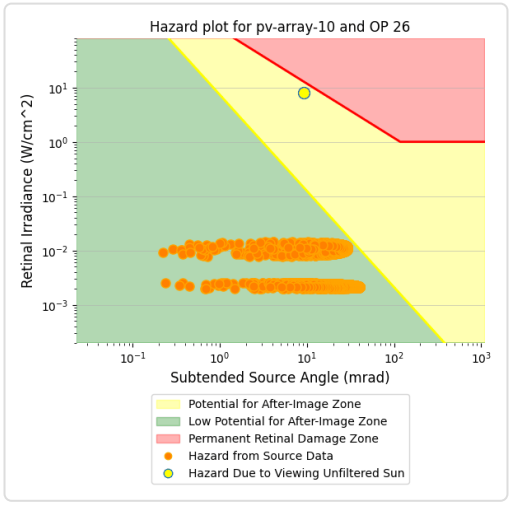
PV array 10 and OP 26

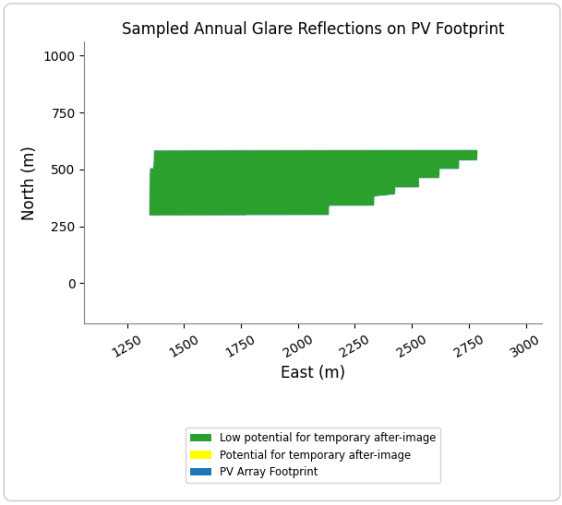
Yellow glare: none

Green glare: 3,022 min.





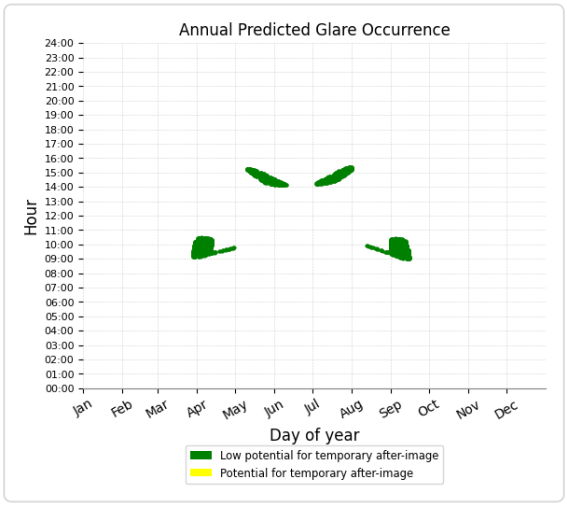


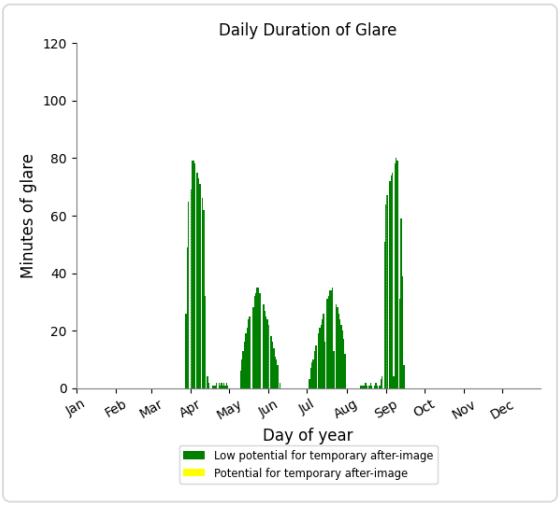


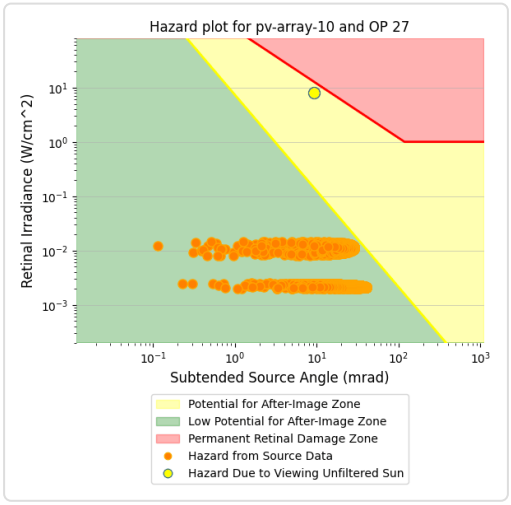
PV array 10 and OP 27

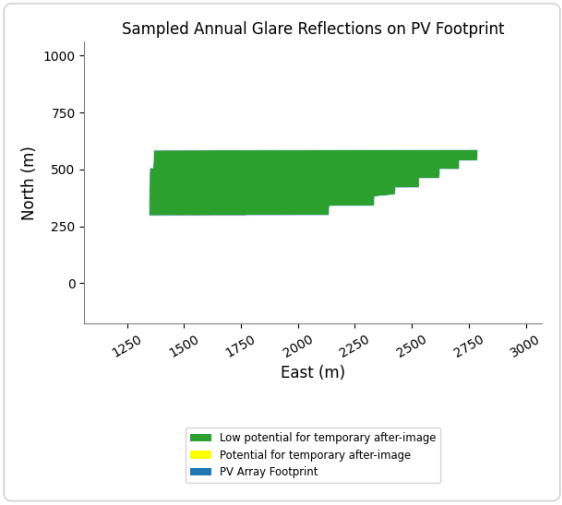
Yellow glare: none

Green glare: 2,729 min.





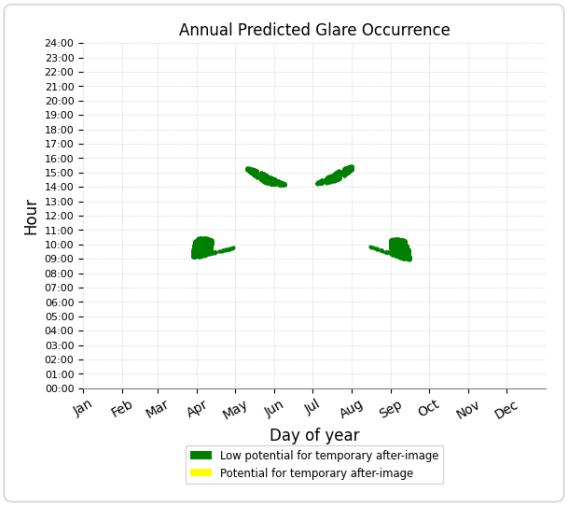


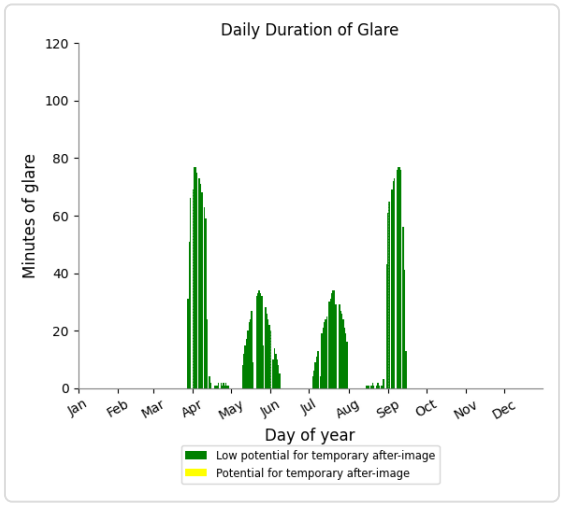


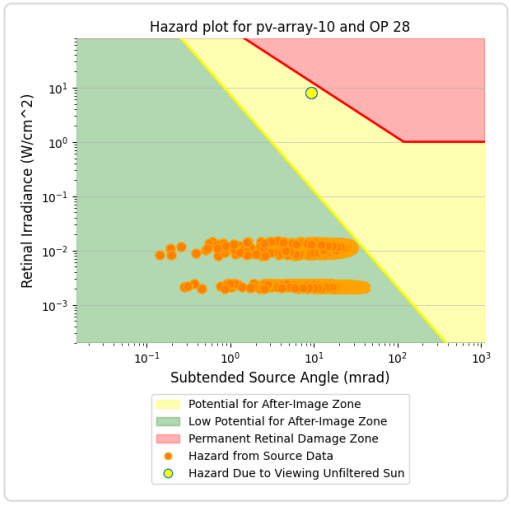
PV array 10 and OP 28

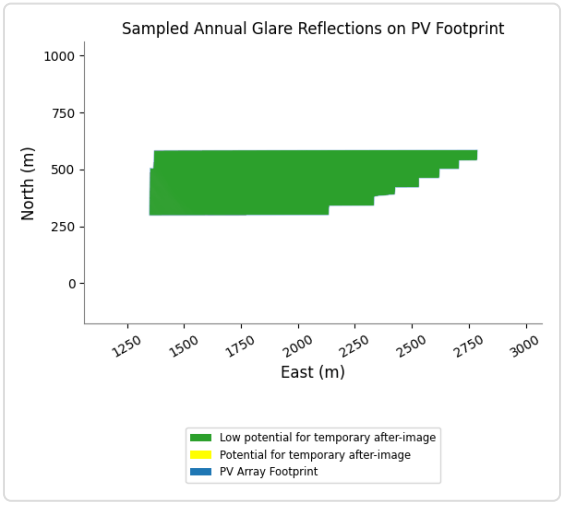
Yellow glare: none

Green glare: 2,667 min.





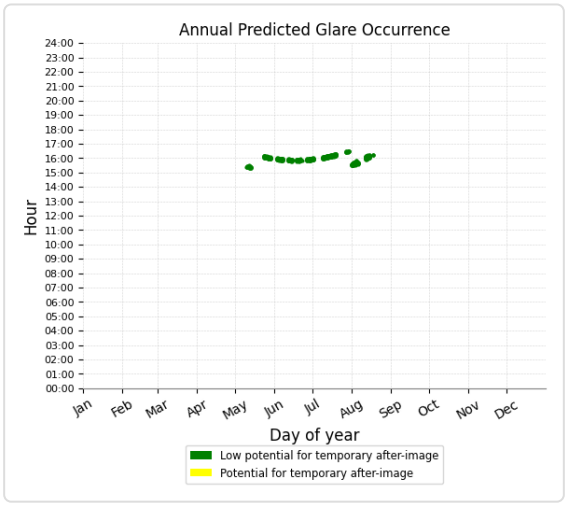


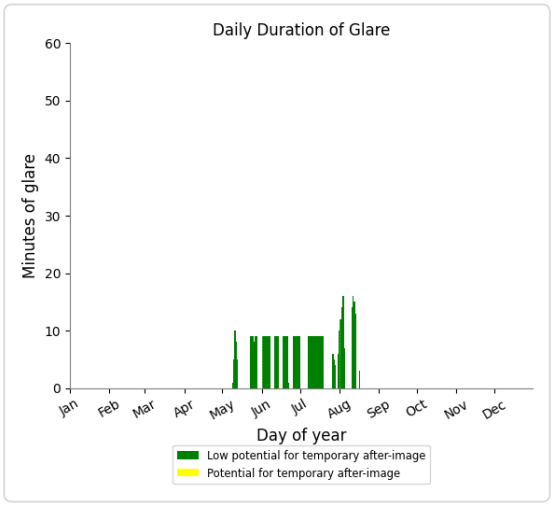


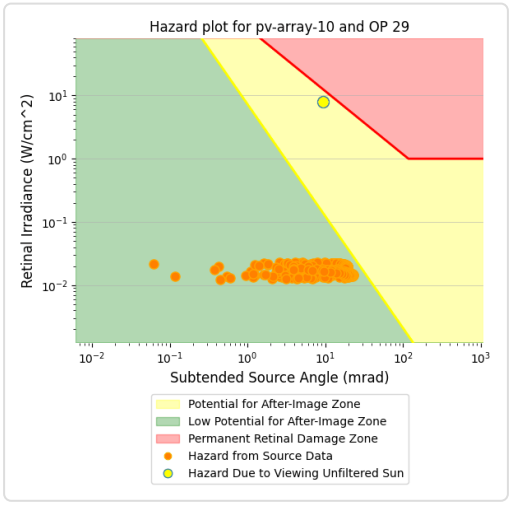
PV array 10 and OP 29

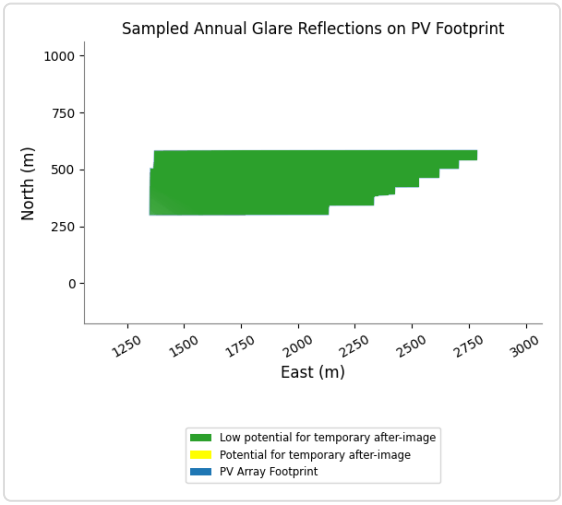
Yellow glare: none

Green glare: 512 min.





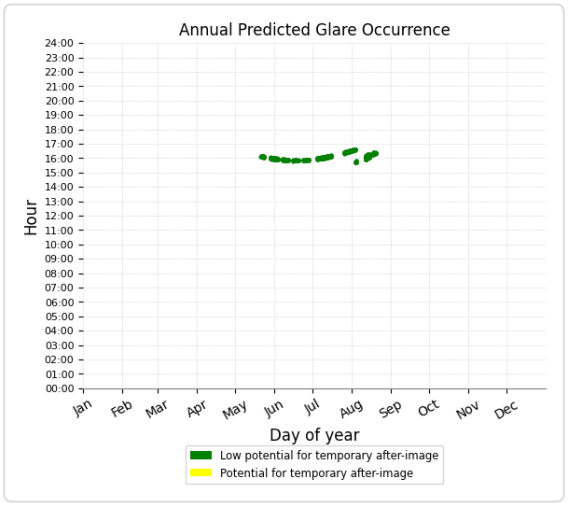


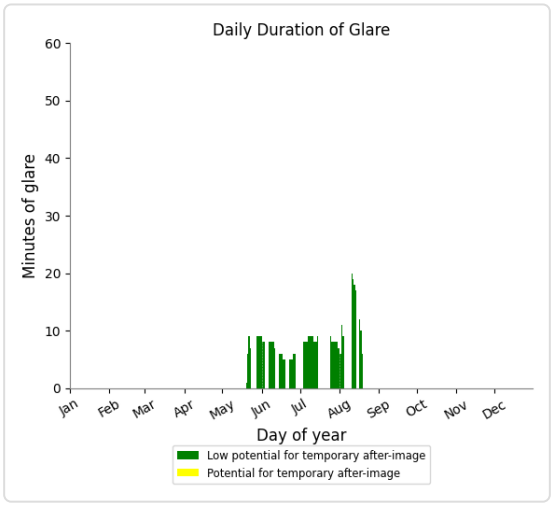


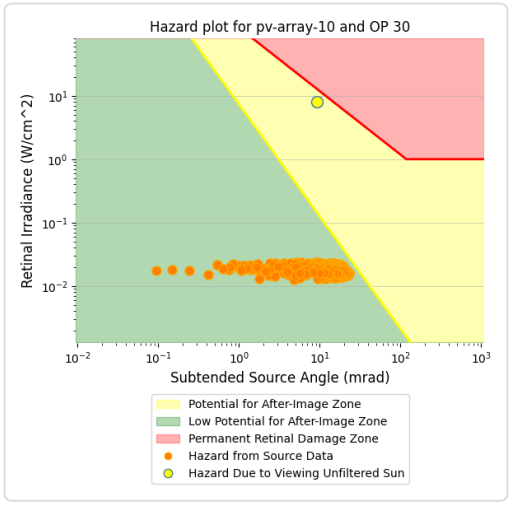
PV array 10 and OP 30

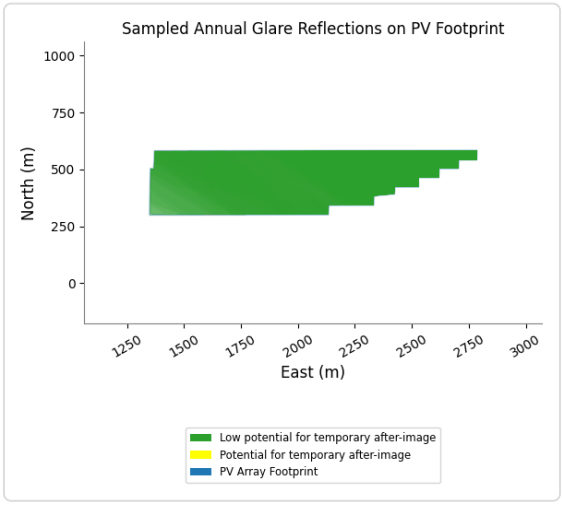
Yellow glare: none

Green glare: 470 min.





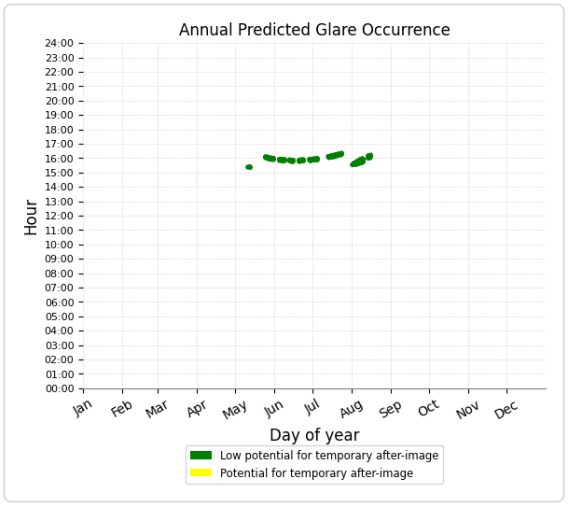


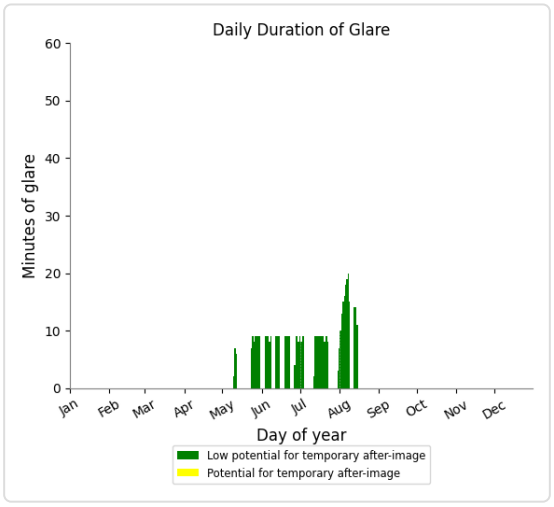


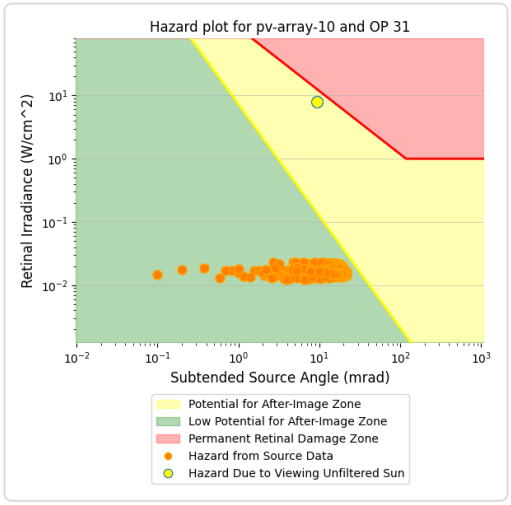
PV array 10 and OP 31

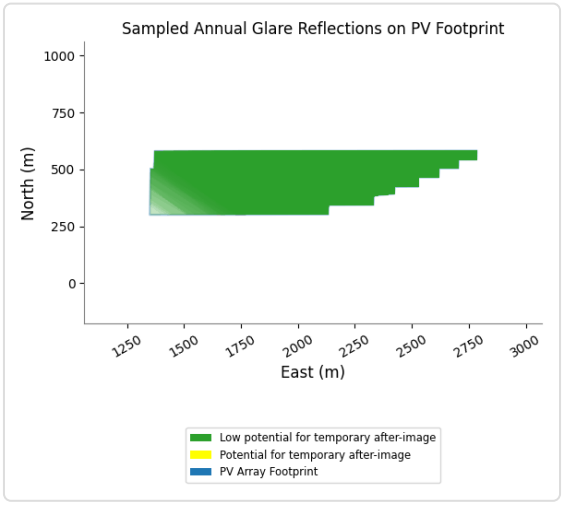
Yellow glare: none

Green glare: 538 min.





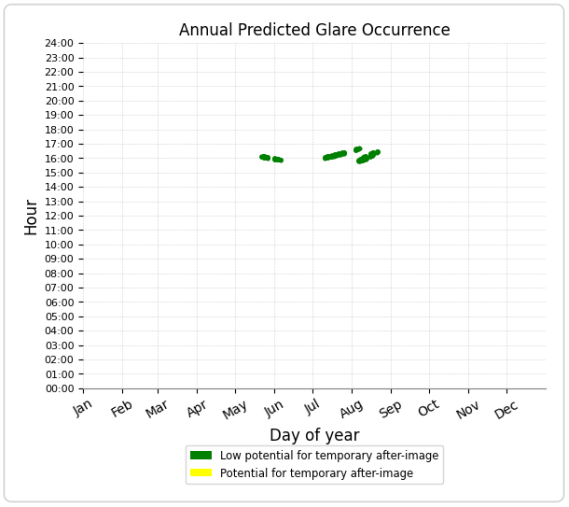


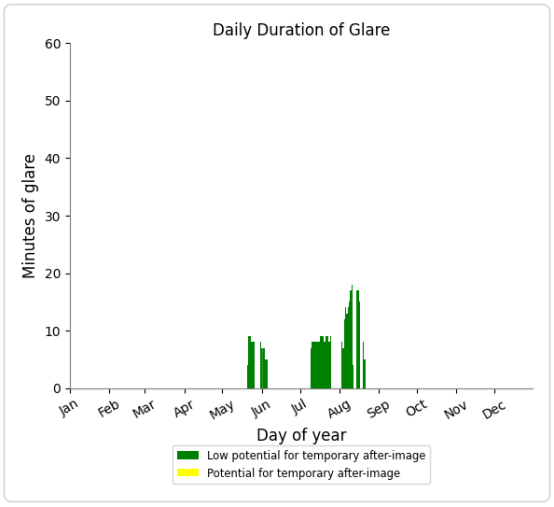


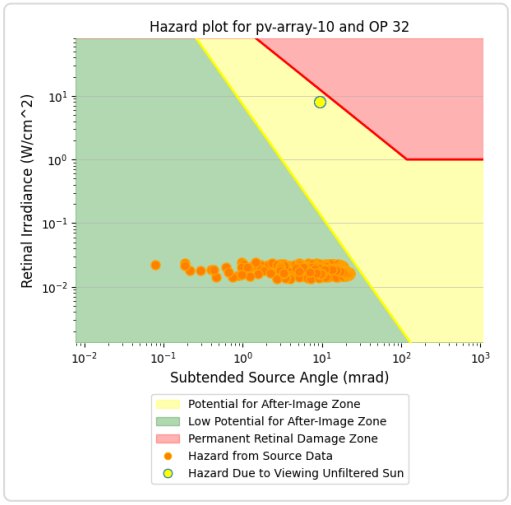
PV array 10 and OP 32

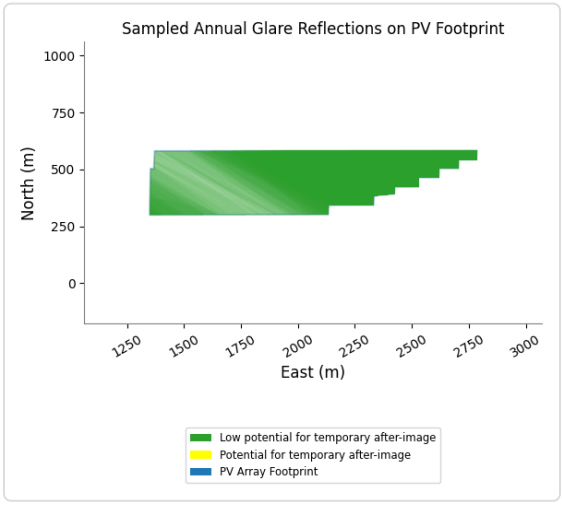
Yellow glare: none

Green glare: 402 min.





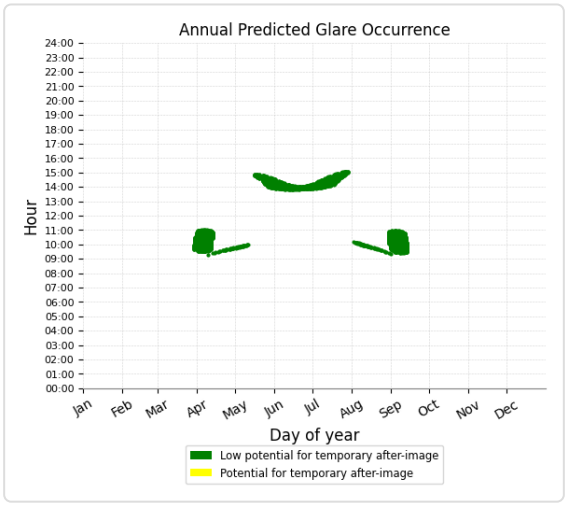


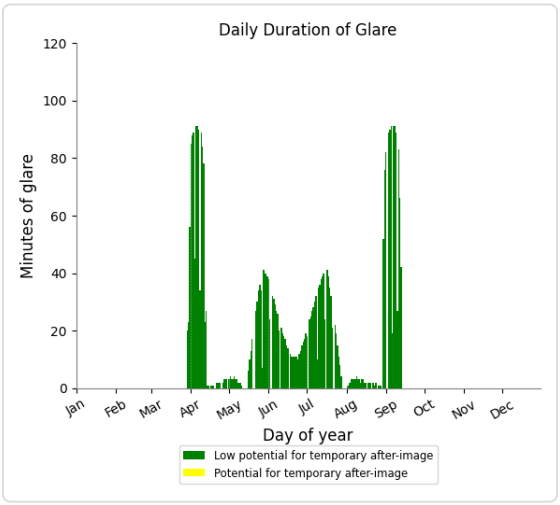


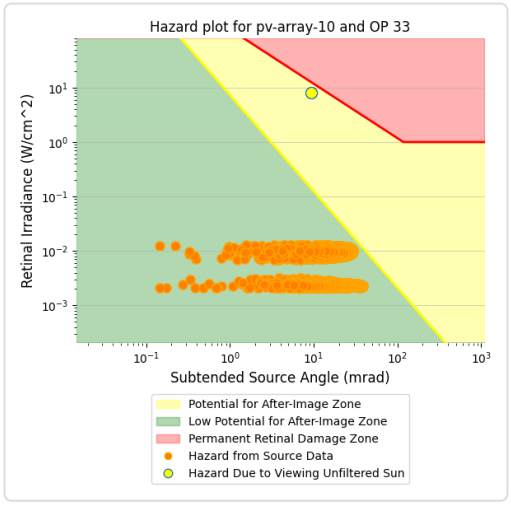
PV array 10 and OP 33

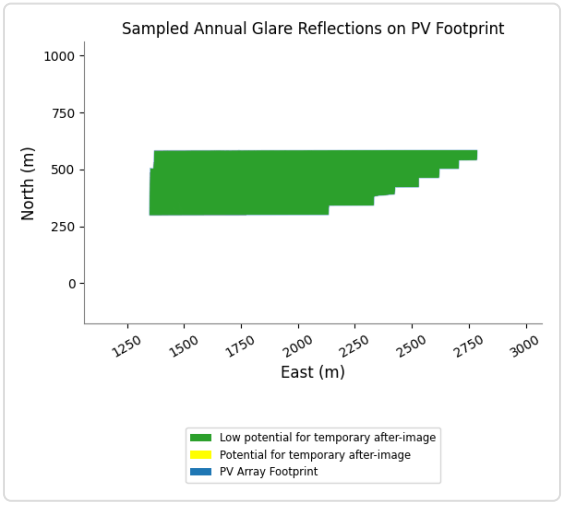
Yellow glare: none

Green glare: 3,635 min.









PV array 10 and OP 1

No glare found

PV array 10 and OP 2

No glare found

PV array 10 and OP 3

No glare found

PV array 10 and OP 9

No glare found

PV array 10 and OP 10

No glare found

PV array 10 and OP 11

No glare found

PV array 10 and OP 12

No glare found

PV array 10 and OP 13

No glare found

PV array 10 and OP 14

No glare found

PV array 10 and OP 15

No glare found

PV array 10 and OP 16

No glare found

PV array 10 and OP 17

No glare found

PV array 10 and OP 18

No glare found

PV array 10 and OP 19

No glare found

PV array 10 and OP 20

No glare found

PV array 10 and OP 21

No glare found

PV array 10 and OP 22

No glare found

PV array 10 and OP 23

No glare found

PV array 10 and OP 24

No glare found

PV array 10 and OP 25

No glare found

PV: PV array 15 potential temporary after-image

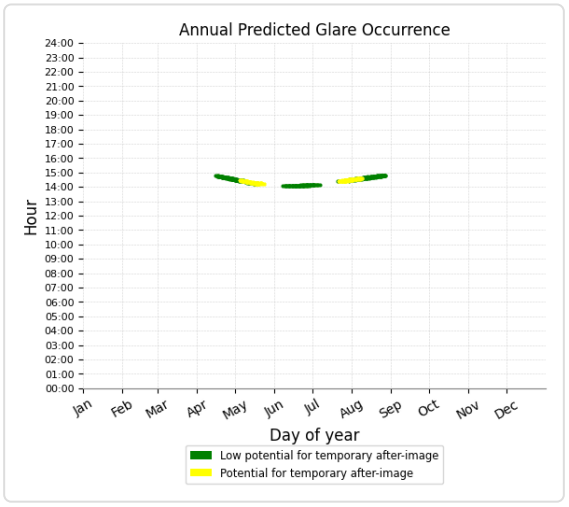
Receptor results ordered by category of glare

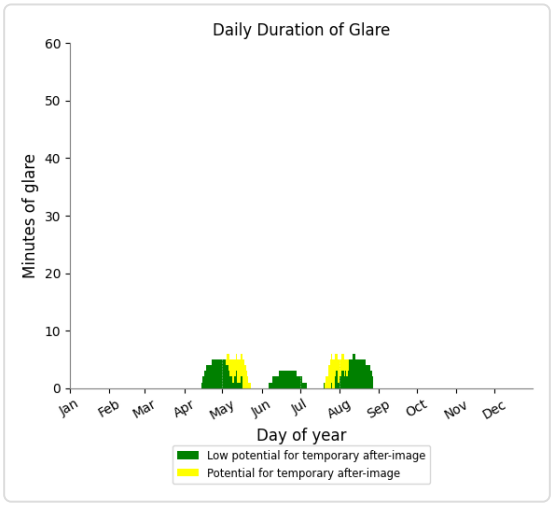
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	289	4.8	126	2.1
Avenue Road	0	0.0	0	0.0
OP 21	297	5.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

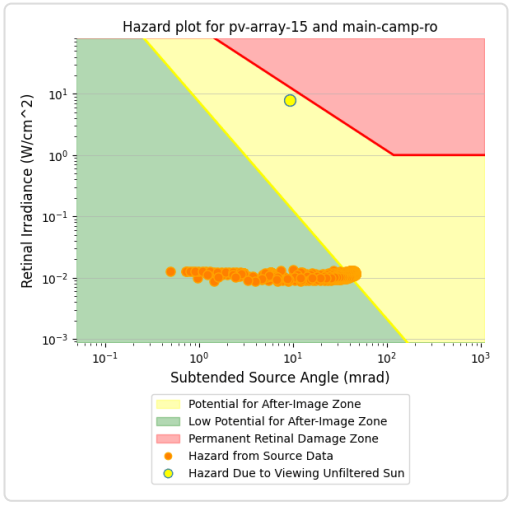
PV array 15 and Route: Main Camp Road

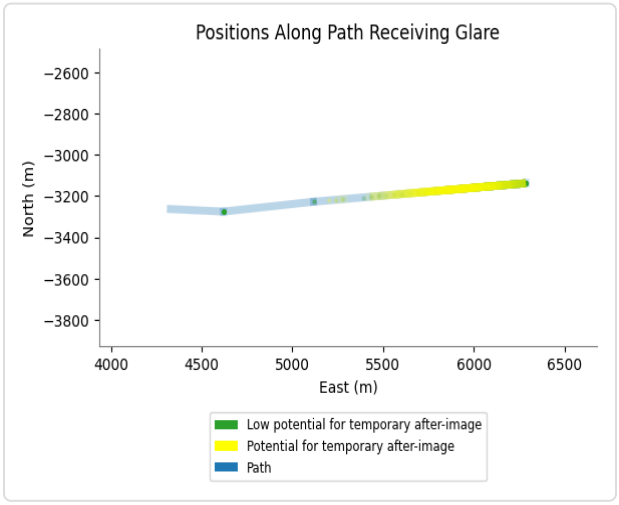
Yellow glare: 126 min.

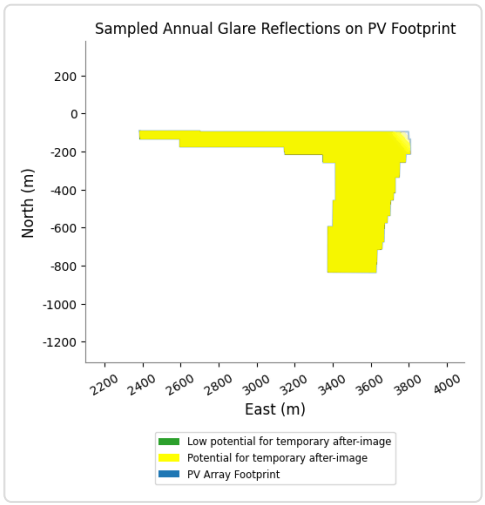
Green glare: 289 min.









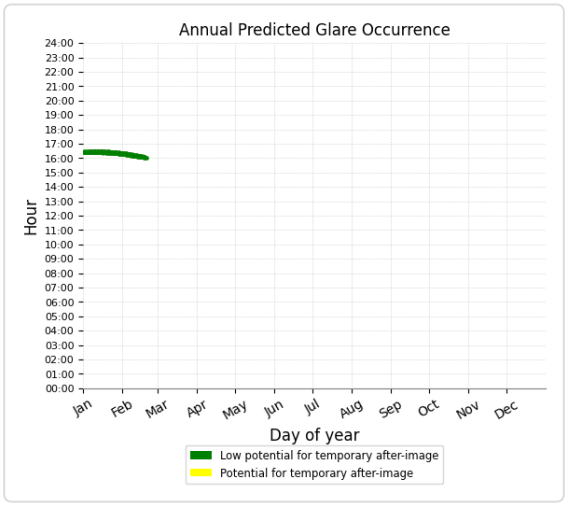


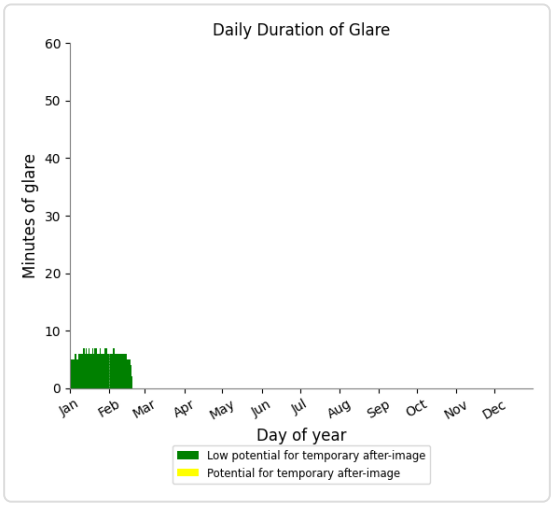
PV array 15 and Route: Avenue Road

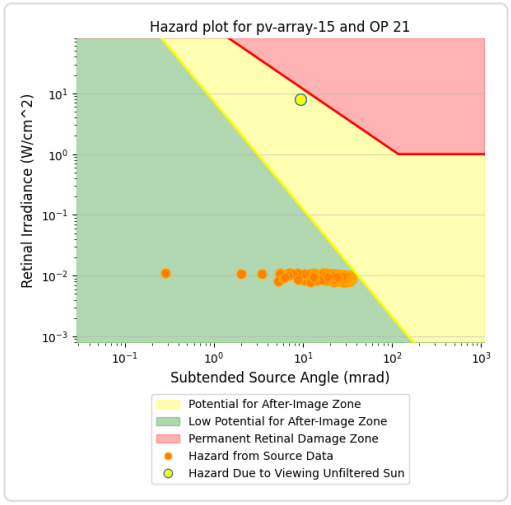
No glare found

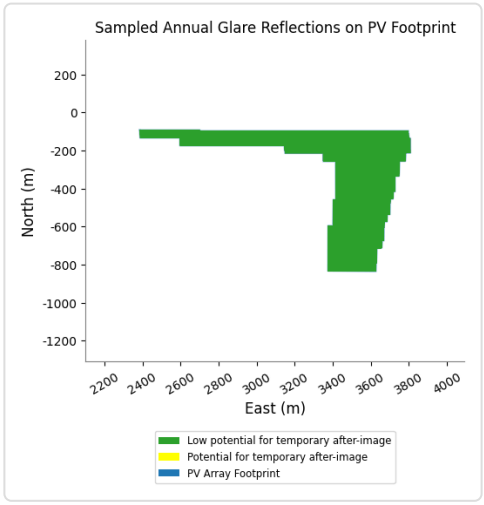
PV array 15 and OP 21

Yellow glare: none
Green glare: 297 min.









PV array 15 and OP 1

No glare found

PV array 15 and OP 2

No glare found

PV array 15 and OP 3

No glare found

PV array 15 and OP 4

No glare found

PV array 15 and OP 5

No glare found

PV array 15 and OP 6

No glare found

PV array 15 and OP 7

No glare found

PV array 15 and OP 8

No glare found

PV array 15 and OP 9

No glare found

PV array 15 and OP 10

No glare found

PV array 15 and OP 11

No glare found

PV array 15 and OP 12

No glare found

PV array 15 and OP 13

No glare found

PV array 15 and OP 14

No glare found

PV array 15 and OP 15

No glare found

PV array 15 and OP 16

No glare found

PV array 15 and OP 17

No glare found

PV array 15 and OP 18

No glare found

PV array 15 and OP 19

No glare found

PV array 15 and OP 20

No glare found

PV array 15 and OP 22

No glare found

PV array 15 and OP 23

No glare found

PV array 15 and OP 24

No glare found

PV array 15 and OP 25

No glare found

PV array 15 and OP 26

No glare found

PV array 15 and OP 27

No glare found

PV array 15 and OP 28

No glare found

PV array 15 and OP 29

No glare found

PV array 15 and OP 30

No glare found

PV array 15 and OP 31

No glare found

PV array 15 and OP 32

No glare found

PV array 15 and OP 33

No glare found

PV: PV array 16 potential temporary after-image

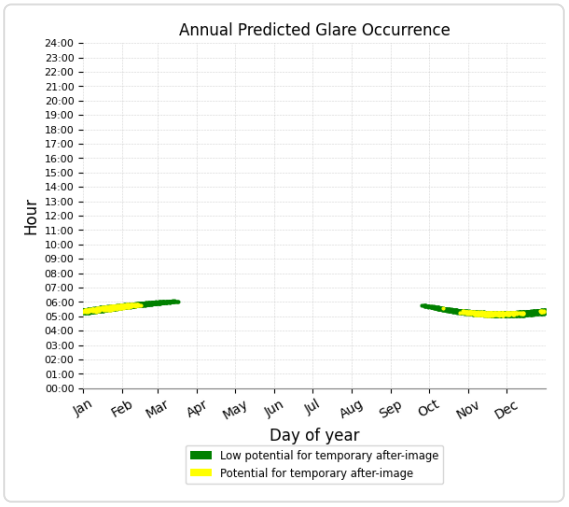
Receptor results ordered by category of glare

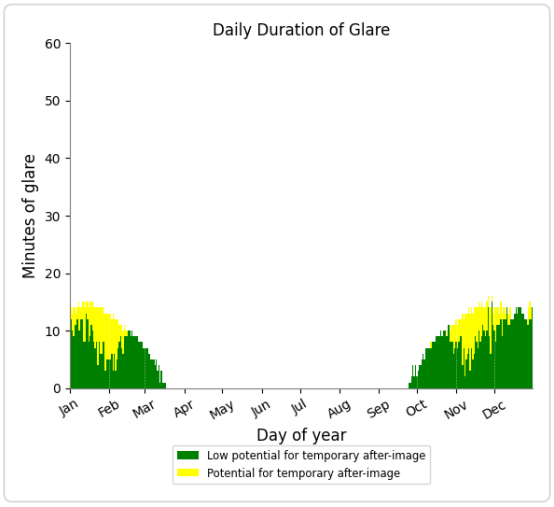
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	1,411	23.5	469	7.8
Main Camp Road	0	0.0	0	0.0
OP 1	140	2.3	0	0.0
OP 2	147	2.5	0	0.0
OP 3	130	2.2	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

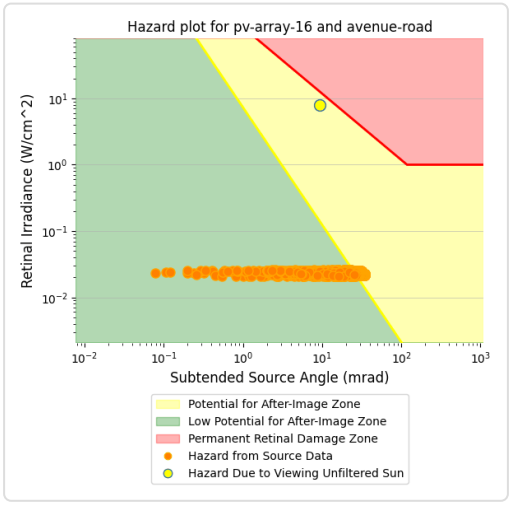
PV array 16 and Route: Avenue Road

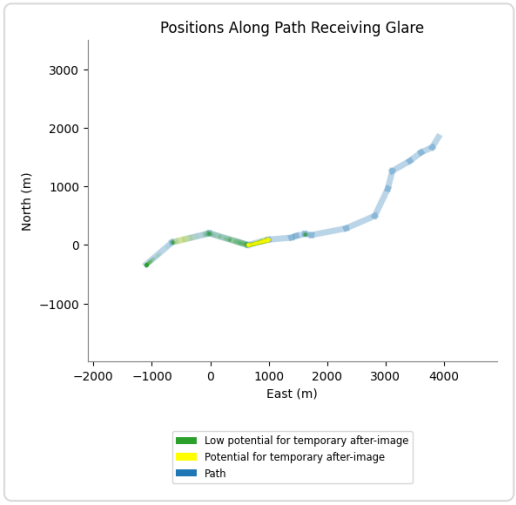
Yellow glare: 469 min.

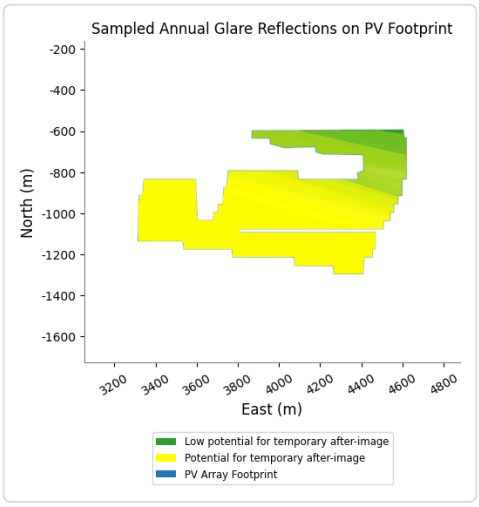
Green glare: 1,411 min.











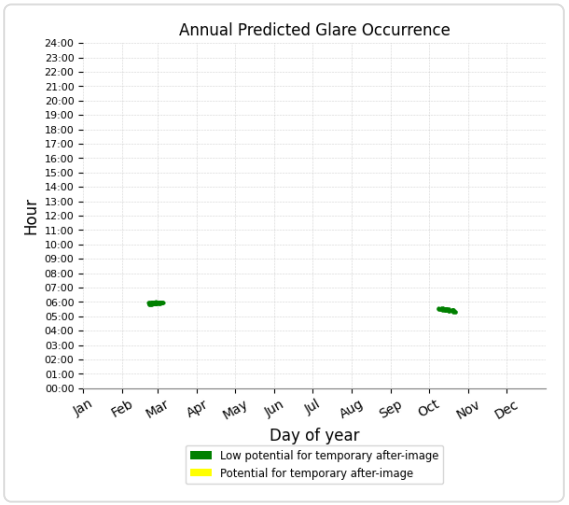
PV array 16 and Route: Main Camp Road

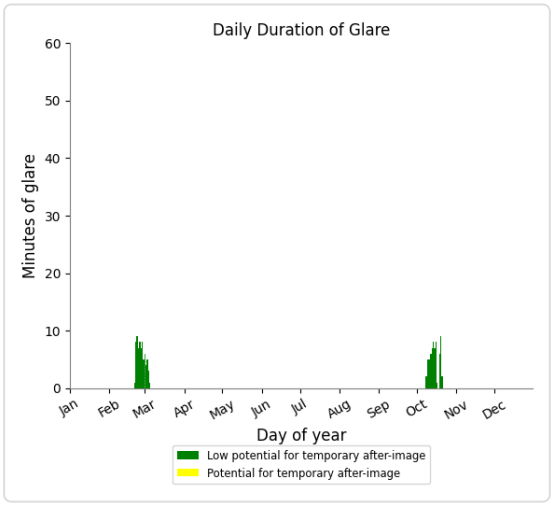
No glare found

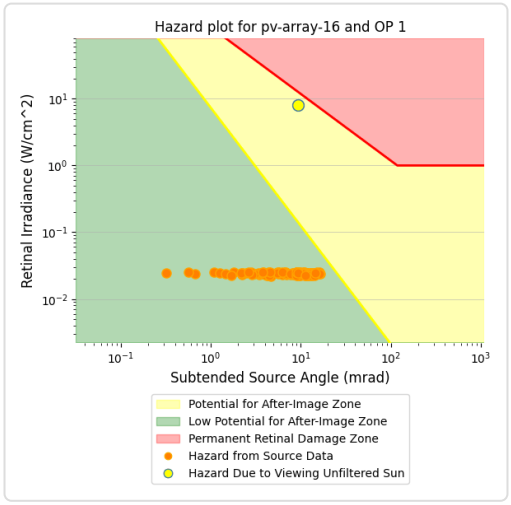
PV array 16 and OP 1

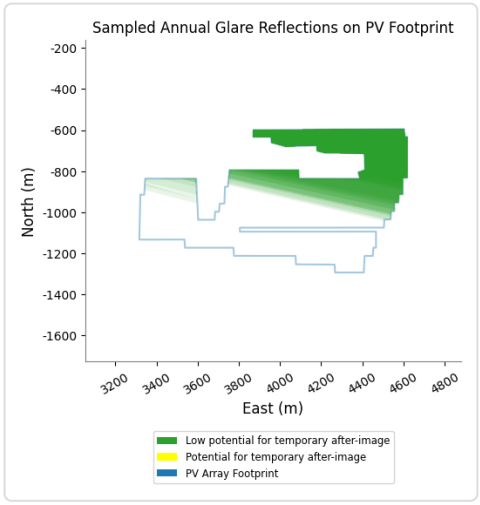
Yellow glare: none

Green glare: 140 min.





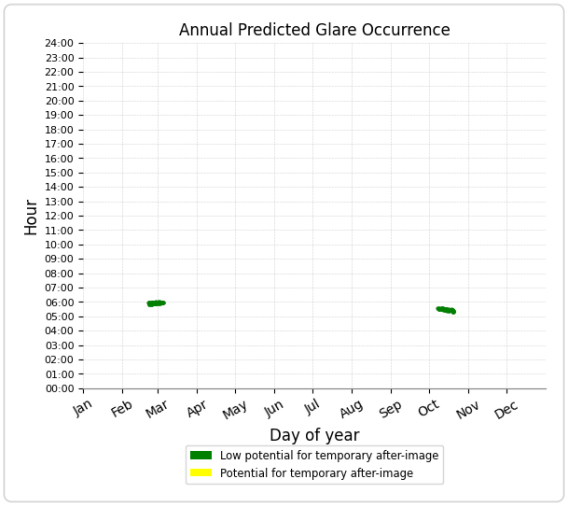


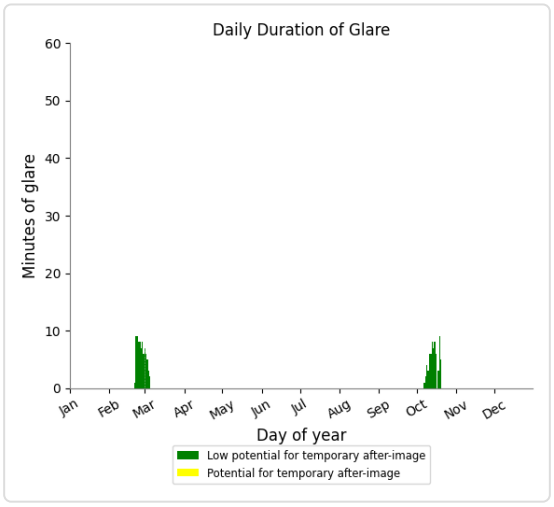


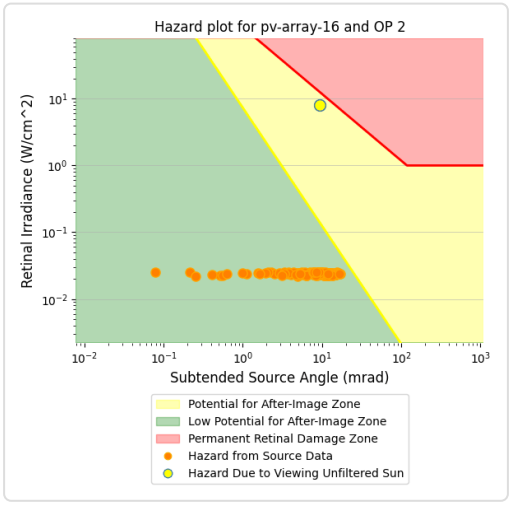
PV array 16 and OP 2

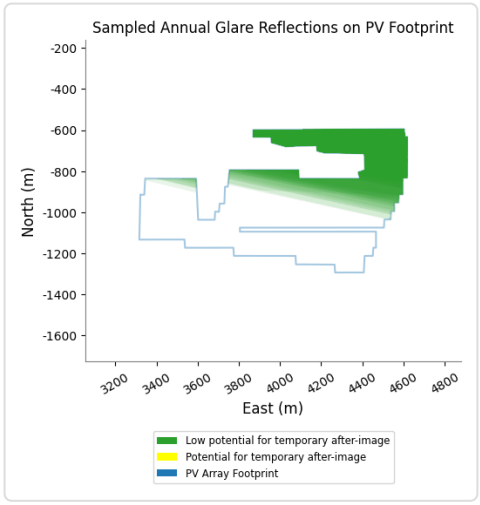
Yellow glare: none

Green glare: 147 min.





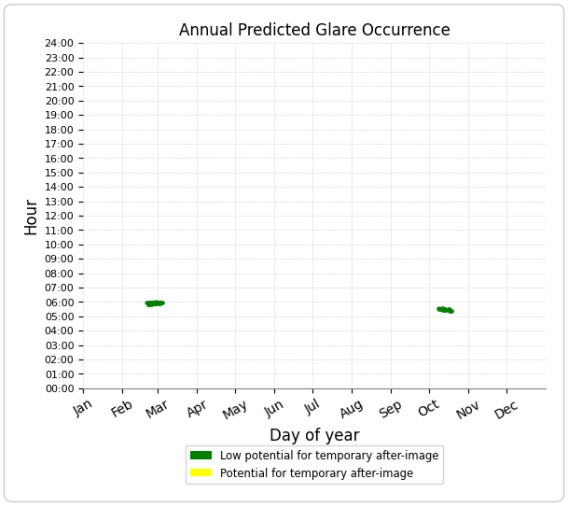


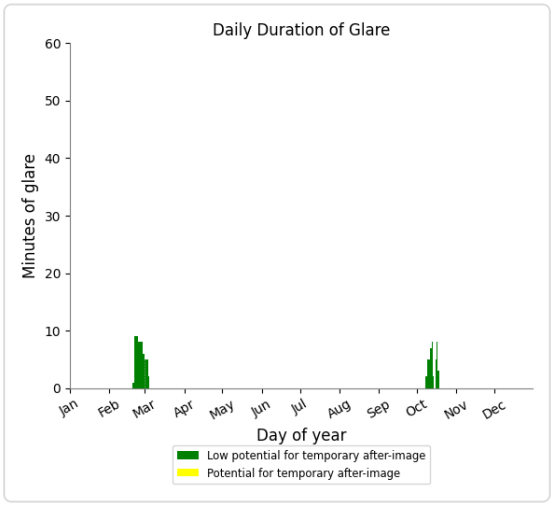


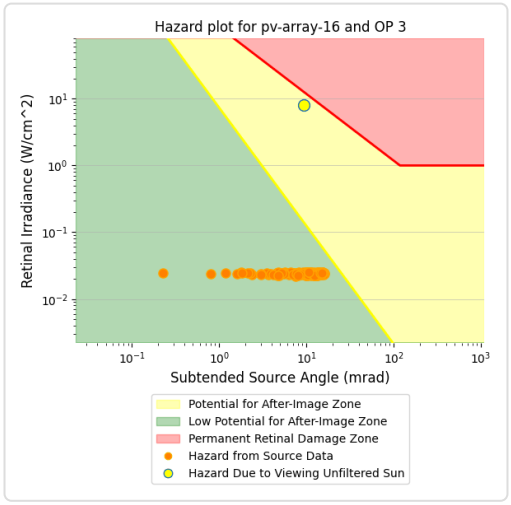
PV array 16 and OP 3

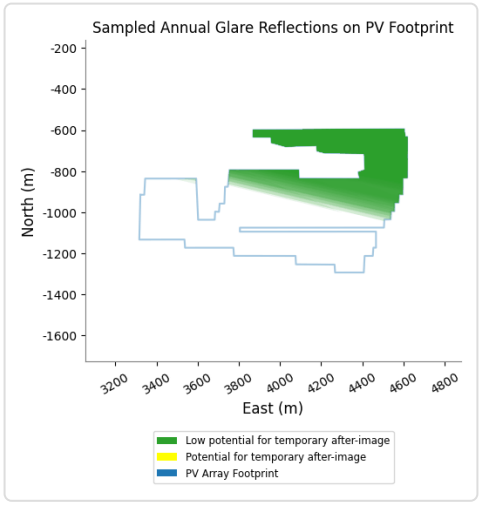
Yellow glare: none

Green glare: 130 min.









PV array 16 and OP 4

No glare found

PV array 16 and OP 5

No glare found

PV array 16 and OP 6

No glare found

PV array 16 and OP 7

No glare found

PV array 16 and OP 8

No glare found

PV array 16 and OP 9

No glare found

PV array 16 and OP 10

No glare found

PV array 16 and OP 11

No glare found

PV array 16 and OP 12

No glare found

PV array 16 and OP 13

No glare found

PV array 16 and OP 14

No glare found

PV array 16 and OP 15

No glare found

PV array 16 and OP 16

No glare found

PV array 16 and OP 17

No glare found

PV array 16 and OP 18

No glare found

PV array 16 and OP 19

No glare found

PV array 16 and OP 20

No glare found

PV array 16 and OP 21

No glare found

PV array 16 and OP 22

No glare found

PV array 16 and OP 23

No glare found

PV array 16 and OP 24

No glare found

PV array 16 and OP 25

No glare found

PV array 16 and OP 26

No glare found

PV array 16 and OP 27

No glare found

PV array 16 and OP 28

No glare found

PV array 16 and OP 29

No glare found

PV array 16 and OP 30

No glare found

PV array 16 and OP 31

No glare found

PV array 16 and OP 32

No glare found

PV array 16 and OP 33

No glare found

PV: PV array 17 no glare found

Receptor results ordered by category of glare

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

PV array 17 and Route: Avenue Road

No glare found

PV array 17 and Route: Main Camp Road

No glare found

PV array 17 and OP 1

No glare found

PV array 17 and OP 2

No glare found

PV array 17 and OP 3

No glare found

PV array 17 and OP 4

No glare found

PV array 17 and OP 5

No glare found

PV array 17 and OP 6

No glare found

PV array 17 and OP 7

No glare found

PV array 17 and OP 8

No glare found

PV array 17 and OP 9

No glare found

PV array 17 and OP 10

No glare found

PV array 17 and OP 11

No glare found

PV array 17 and OP 12

No glare found

PV array 17 and OP 13

No glare found

PV array 17 and OP 14

No glare found

PV array 17 and OP 15

No glare found

PV array 17 and OP 16

No glare found

PV array 17 and OP 17

No glare found

PV array 17 and OP 18

No glare found

PV array 17 and OP 19

No glare found

PV array 17 and OP 20

No glare found

PV array 17 and OP 21

No glare found

PV array 17 and OP 22

No glare found

PV array 17 and OP 23

No glare found

PV array 17 and OP 24

No glare found

PV array 17 and OP 25

No glare found

PV array 17 and OP 26

No glare found

PV array 17 and OP 27

No glare found

PV array 17 and OP 28

No glare found

PV array 17 and OP 29

No glare found

PV array 17 and OP 30

No glare found

PV array 17 and OP 31

No glare found

PV array 17 and OP 32

No glare found

PV array 17 and OP 33

No glare found

PV: PV array 18 low potential for temporary after-image

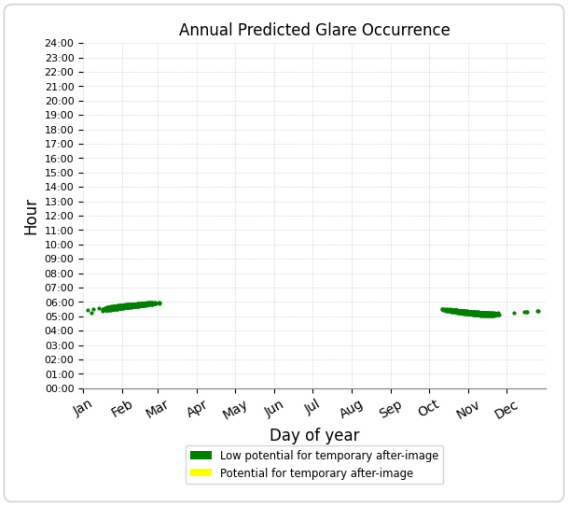
Receptor results ordered by category of glare

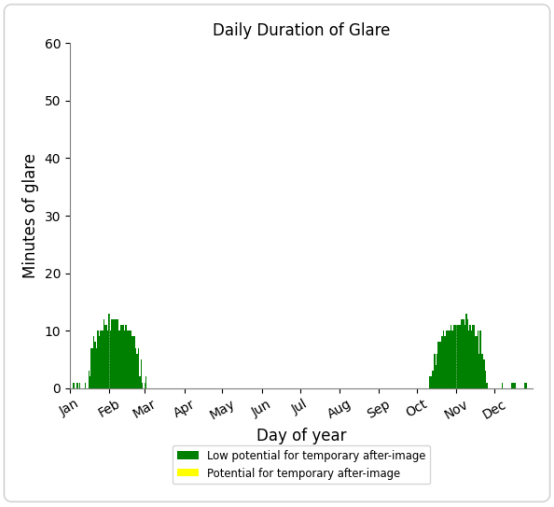
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	798	13.3	0	0.0
Main Camp Road	0	0.0	0	0.0
OP 1	86	1.4	0	0.0
OP 2	84	1.4	0	0.0
OP 3	68	1.1	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

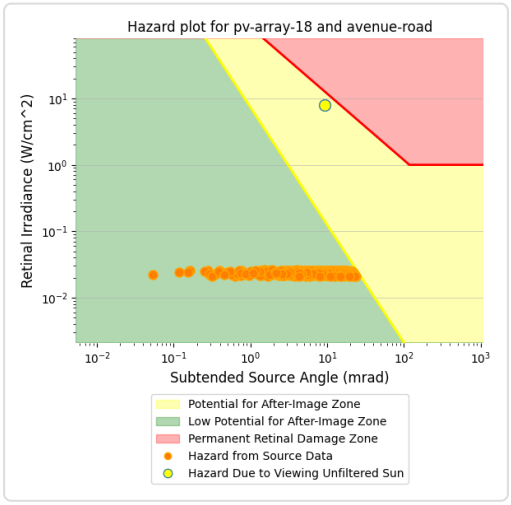
PV array 18 and Route: Avenue Road

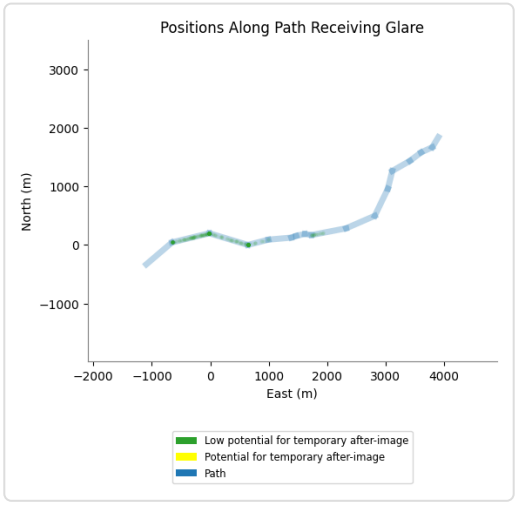
Yellow glare: none

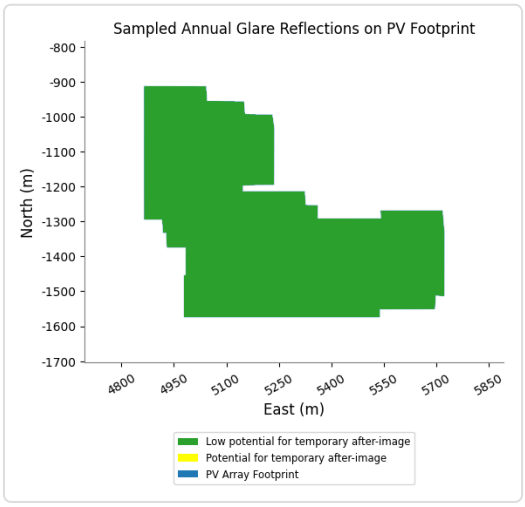
Green glare: 798 min.











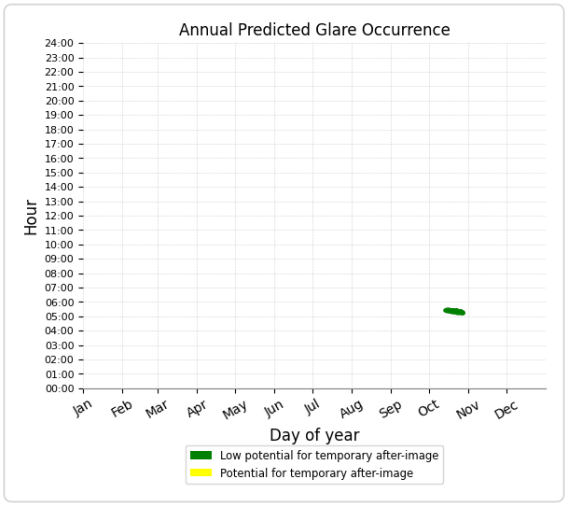
PV array 18 and Route: Main Camp Road

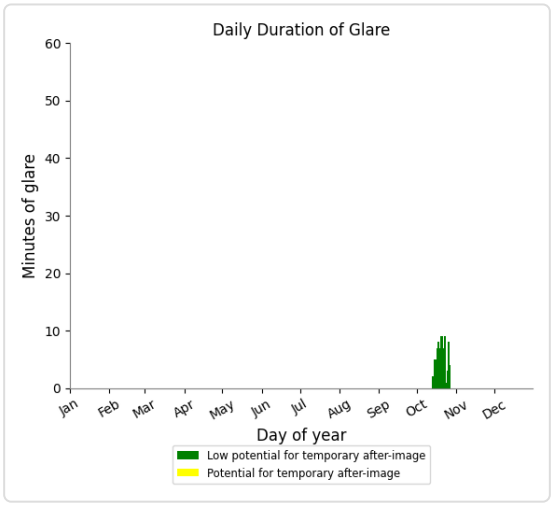
No glare found

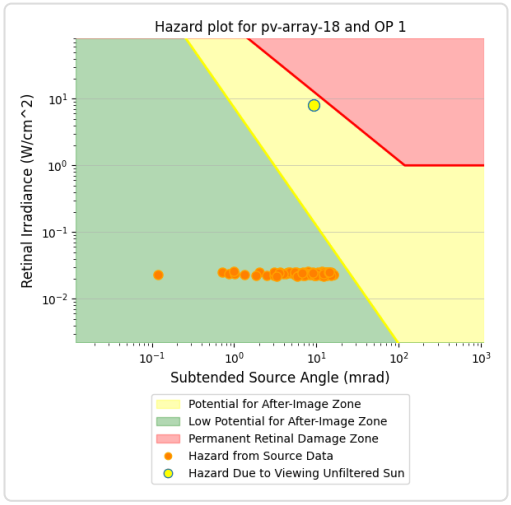
PV array 18 and OP 1

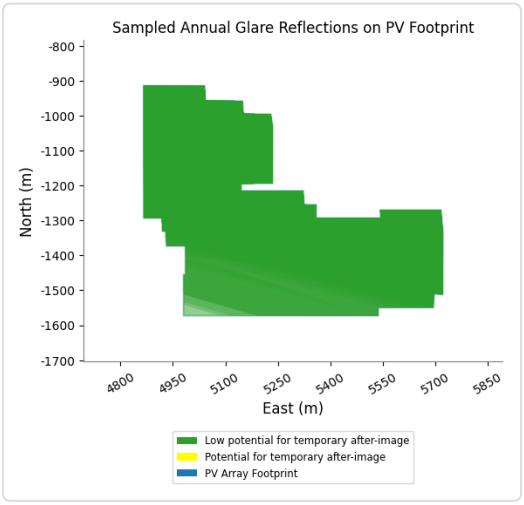
Yellow glare: none

Green glare: 86 min.





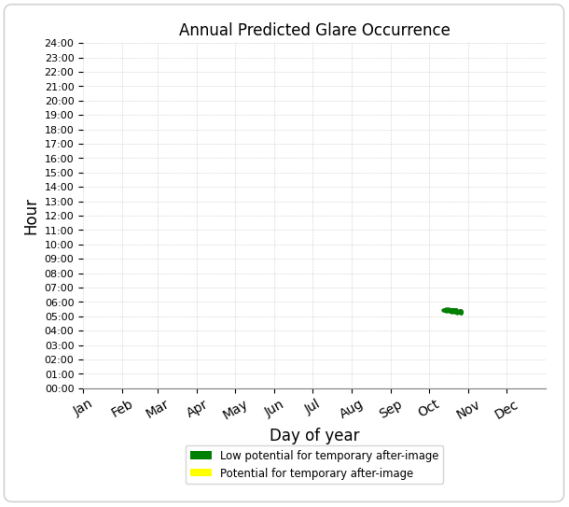


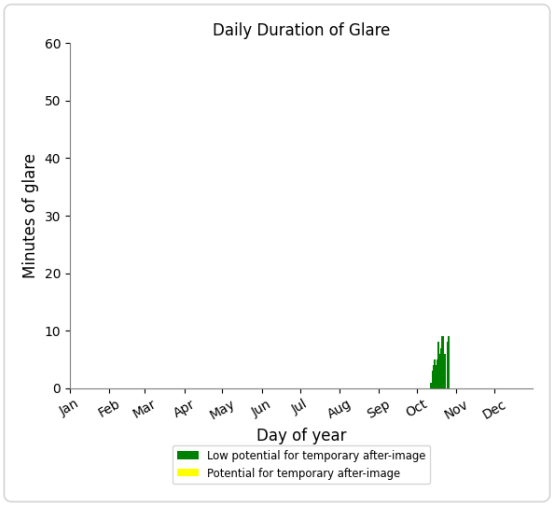


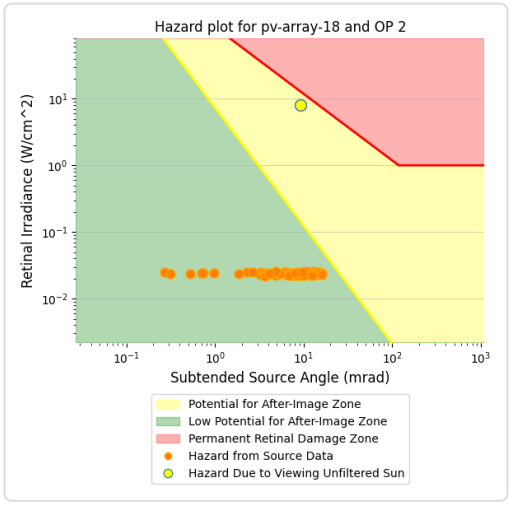
PV array 18 and OP 2

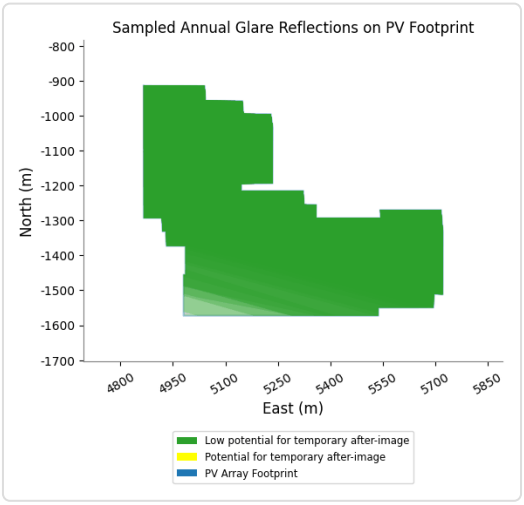
Yellow glare: none

Green glare: 84 min.



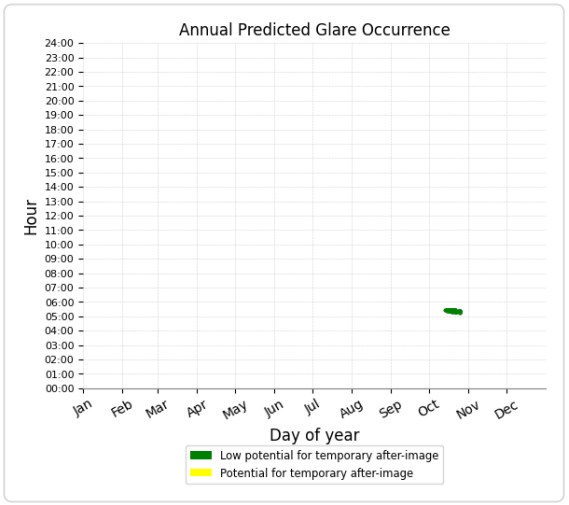


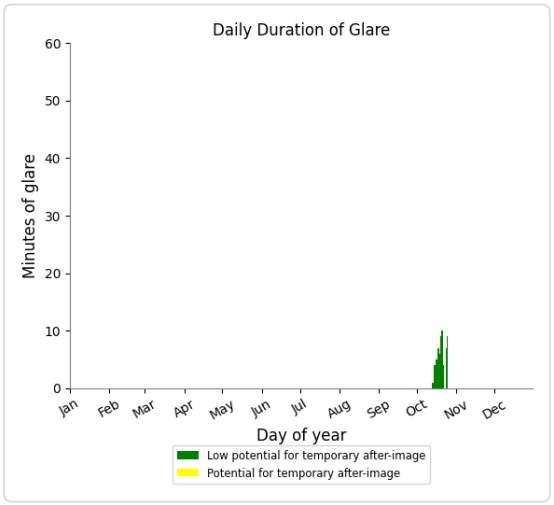


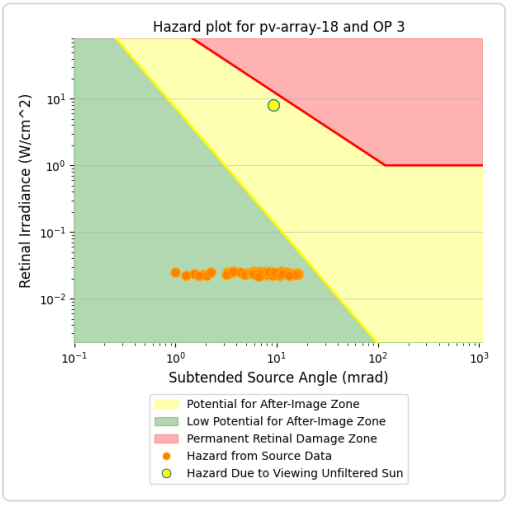


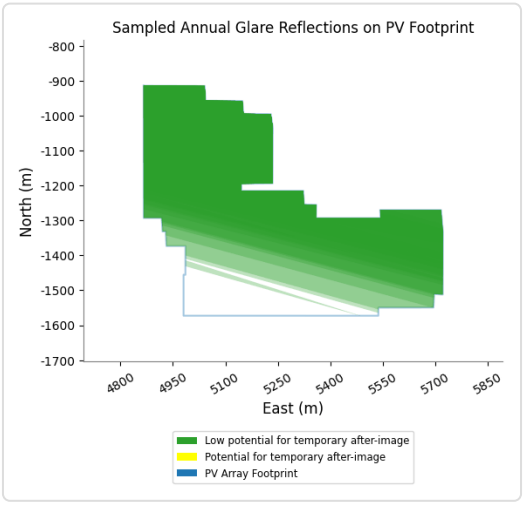
PV array 18 and OP 3

Yellow glare: none
Green glare: 68 min.









PV array 18 and OP 4

No glare found

PV array 18 and OP 5

No glare found

PV array 18 and OP 6

No glare found

PV array 18 and OP 7

No glare found

PV array 18 and OP 8

No glare found

PV array 18 and OP 9

No glare found

PV array 18 and OP 10

No glare found

PV array 18 and OP 11

No glare found

PV array 18 and OP 12

No glare found

PV array 18 and OP 13

No glare found

PV array 18 and OP 14

No glare found

PV array 18 and OP 15

No glare found

PV array 18 and OP 16

No glare found

PV array 18 and OP 17

No glare found

PV array 18 and OP 18

No glare found

PV array 18 and OP 19

No glare found

PV array 18 and OP 20

No glare found

PV array 18 and OP 21

No glare found

PV array 18 and OP 22

No glare found

PV array 18 and OP 23

No glare found

PV array 18 and OP 24

No glare found

PV array 18 and OP 25

No glare found

PV array 18 and OP 26

No glare found

PV array 18 and OP 27

No glare found

PV array 18 and OP 28

No glare found

PV array 18 and OP 29

No glare found

PV array 18 and OP 30

No glare found

PV array 18 and OP 31

No glare found

PV array 18 and OP 32

No glare found

PV array 18 and OP 33

No glare found

PV: PV array 19 potential temporary after-image

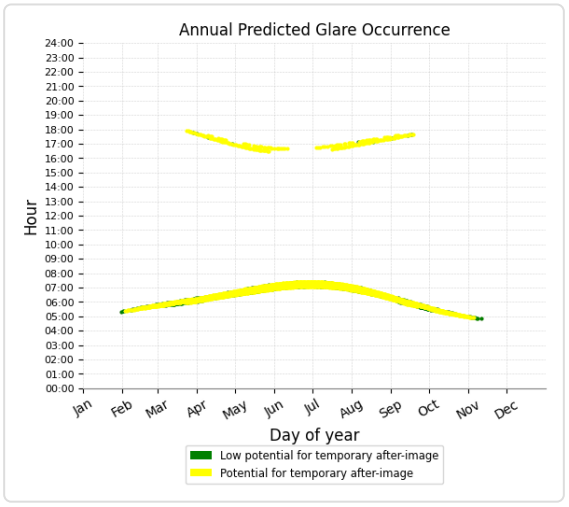
Receptor results ordered by category of glare

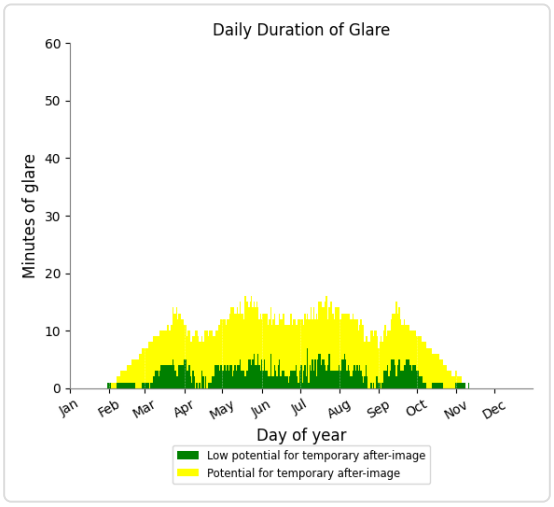
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	714	11.9	2,042	34.0
Main Camp Road	0	0.0	0	0.0
OP 8	195	3.2	0	0.0
OP 21	18	0.3	0	0.0
OP 30	246	4.1	0	0.0
OP 32	346	5.8	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

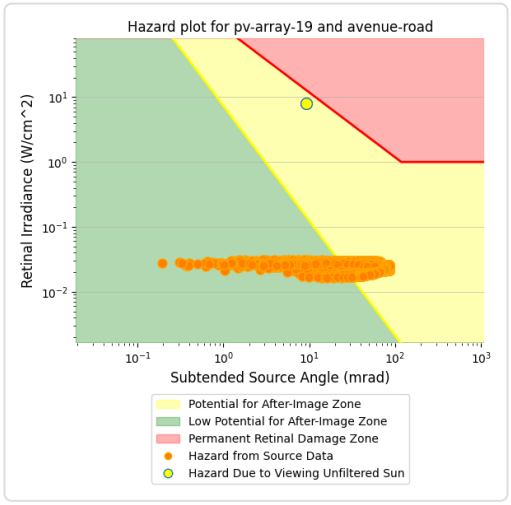
PV array 19 and Route: Avenue Road

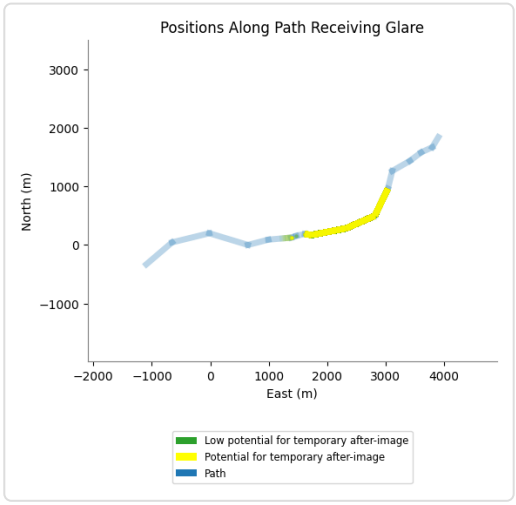
Yellow glare: 2,042 min.

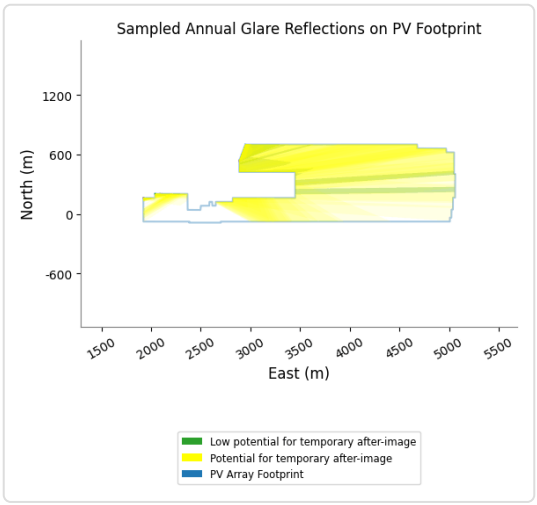
Green glare: 714 min.











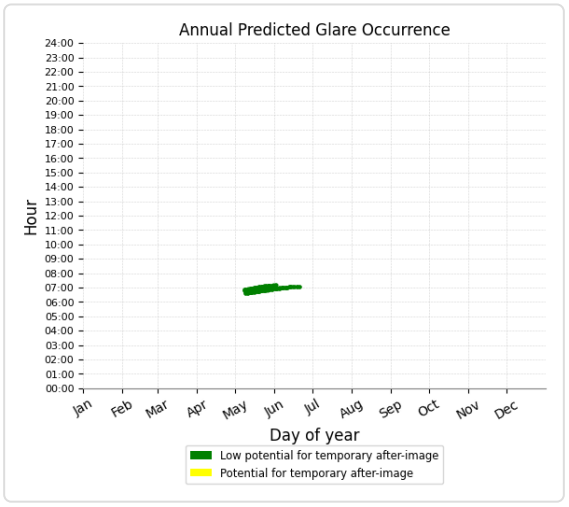
PV array 19 and Route: Main Camp Road

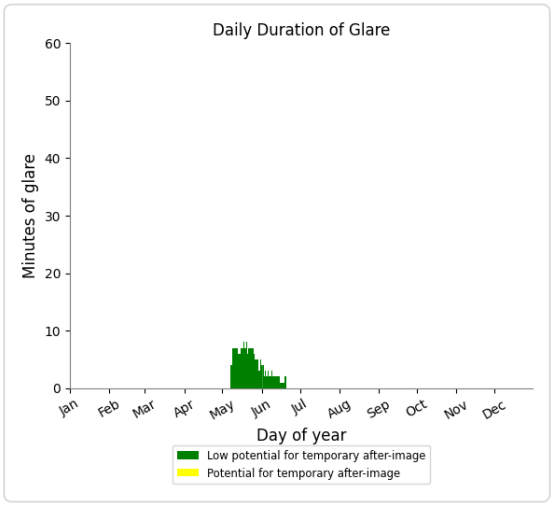
No glare found

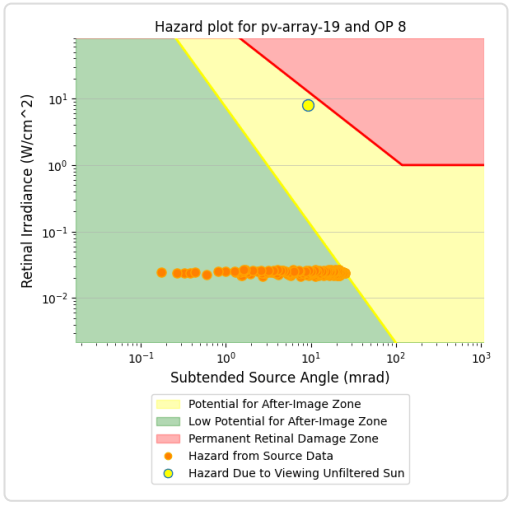
PV array 19 and OP 8

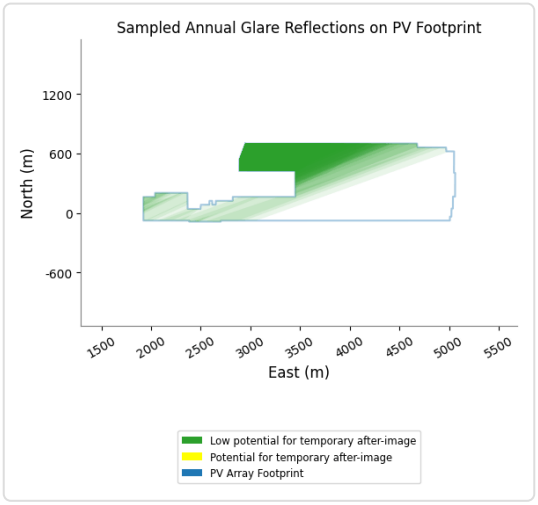
Yellow glare: none

Green glare: 195 min.





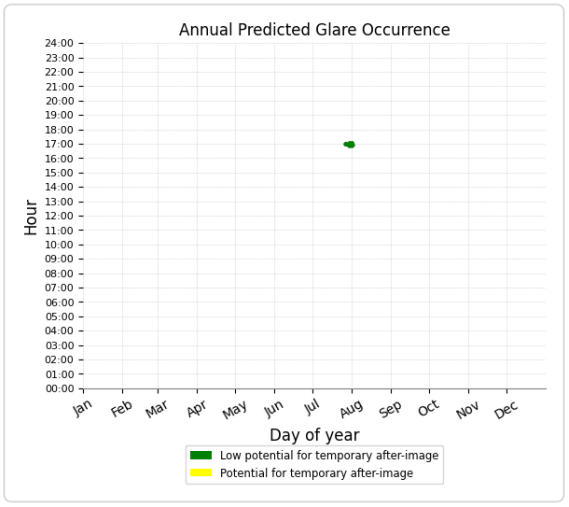


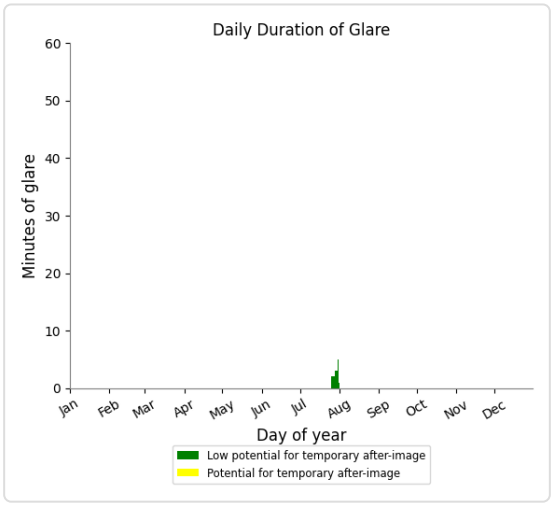


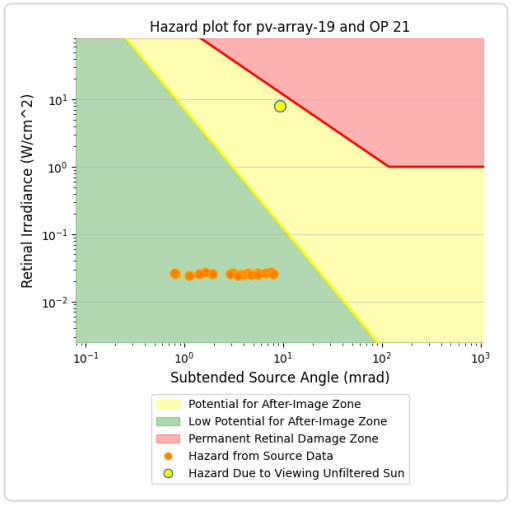
PV array 19 and OP 21

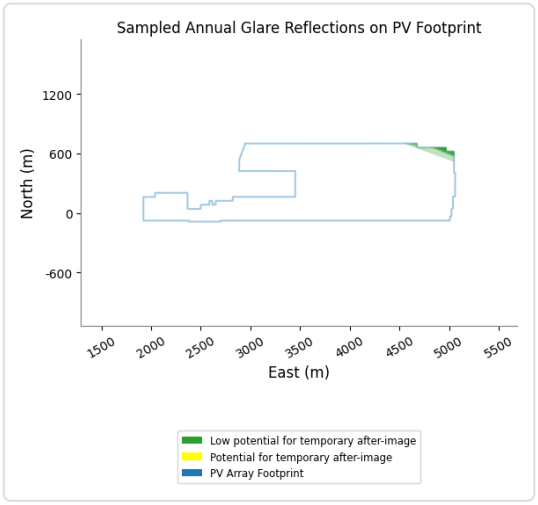
Yellow glare: none

Green glare: 18 min.





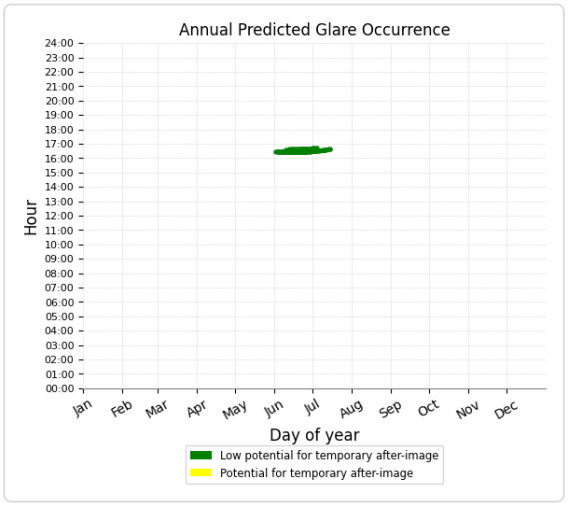


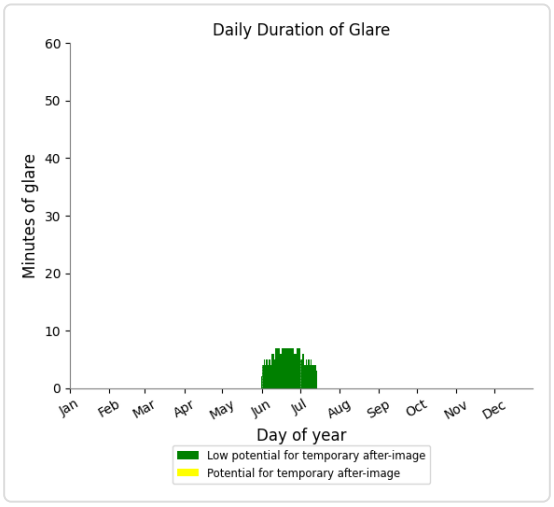


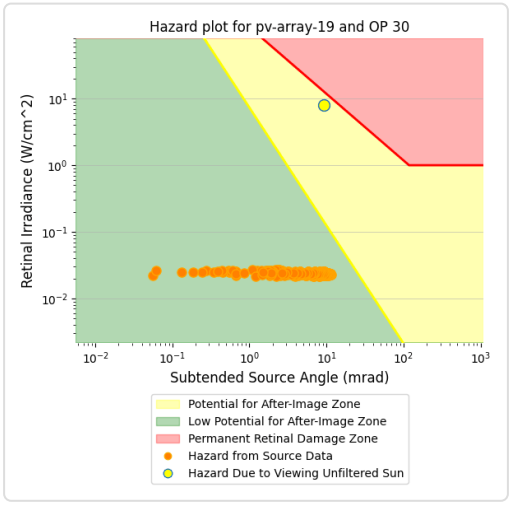
PV array 19 and OP 30

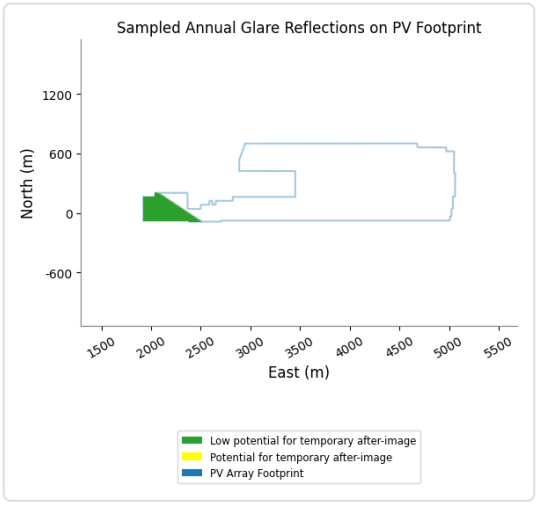
Yellow glare: none

Green glare: 246 min.



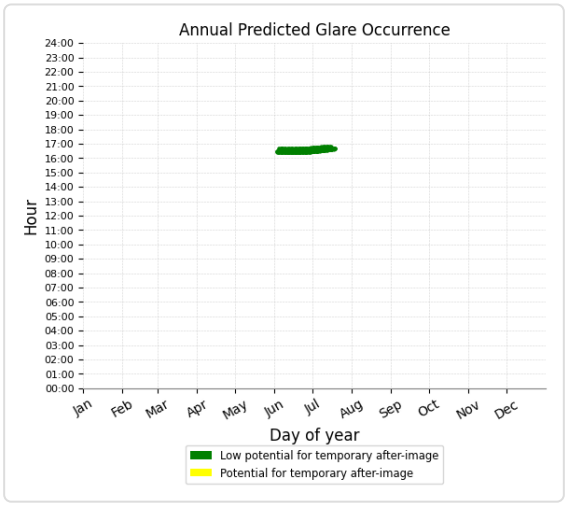


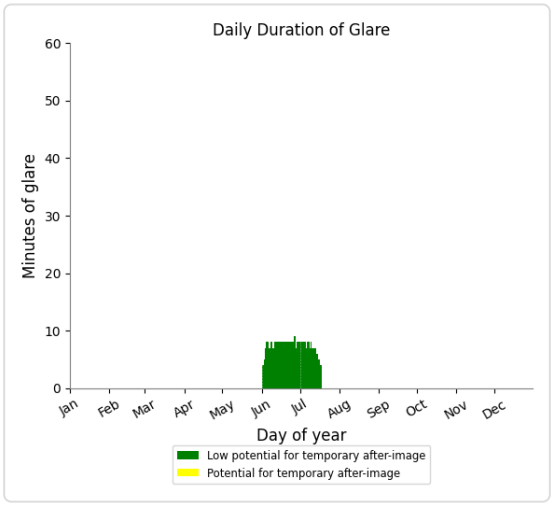


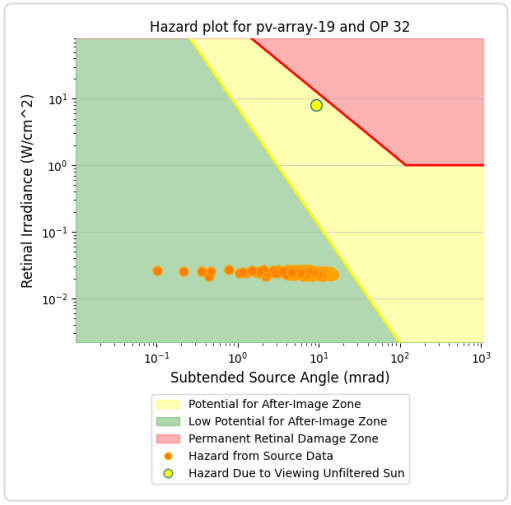


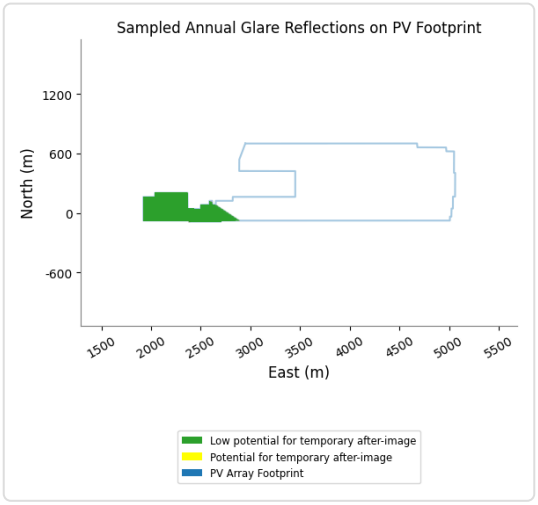
PV array 19 and OP 32

Yellow glare: none
Green glare: 346 min.









PV array 19 and OP 1

No glare found

PV array 19 and OP 2

No glare found

PV array 19 and OP 3

No glare found

PV array 19 and OP 4

No glare found

PV array 19 and OP 5

No glare found

PV array 19 and OP 6

No glare found

PV array 19 and OP 7

No glare found

PV array 19 and OP 9

No glare found

PV array 19 and OP 10

No glare found

PV array 19 and OP 11

No glare found

PV array 19 and OP 12

No glare found

PV array 19 and OP 13

No glare found

PV array 19 and OP 14

No glare found

PV array 19 and OP 15

No glare found

PV array 19 and OP 16

No glare found

PV array 19 and OP 17

No glare found

PV array 19 and OP 18

No glare found

PV array 19 and OP 19

No glare found

PV array 19 and OP 20

No glare found

PV array 19 and OP 22

No glare found

PV array 19 and OP 23

No glare found

PV array 19 and OP 24

No glare found

PV array 19 and OP 25

No glare found

PV array 19 and OP 26

No glare found

PV array 19 and OP 27

No glare found

PV array 19 and OP 28

No glare found

PV array 19 and OP 29

No glare found

PV array 19 and OP 31

No glare found

PV array 19 and OP 33

No glare found

PV: PV array 2 no glare found

Receptor results ordered by category of glare

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

PV array 2 and Route: Avenue Road

No glare found

PV array 2 and Route: Main Camp Road

No glare found

PV array 2 and OP 1

No glare found

PV array 2 and OP 2

No glare found

PV array 2 and OP 3

No glare found

PV array 2 and OP 4

No glare found

PV array 2 and OP 5

No glare found

PV array 2 and OP 6

No glare found

PV array 2 and OP 7

No glare found

PV array 2 and OP 8

No glare found

PV array 2 and OP 9

No glare found

PV array 2 and OP 10

No glare found

PV array 2 and OP 11

No glare found

PV array 2 and OP 12

No glare found

PV array 2 and OP 13

No glare found

PV array 2 and OP 14

No glare found

PV array 2 and OP 15

No glare found

PV array 2 and OP 16

No glare found

PV array 2 and OP 17

No glare found

PV array 2 and OP 18

No glare found

PV array 2 and OP 19

No glare found

PV array 2 and OP 20

No glare found

PV array 2 and OP 21

No glare found

PV array 2 and OP 22

No glare found

PV array 2 and OP 23

No glare found

PV array 2 and OP 24

No glare found

PV array 2 and OP 25

No glare found

PV array 2 and OP 26

No glare found

PV array 2 and OP 27

No glare found

PV array 2 and OP 28

No glare found

PV array 2 and OP 29

No glare found

PV array 2 and OP 30

No glare found

PV array 2 and OP 31

No glare found

PV array 2 and OP 32

No glare found

PV array 2 and OP 33

No glare found

PV: PV array 20 low potential for temporary after-image

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	0	0.0	0	0.0
Main Camp Road	0	0.0	0	0.0
OP 29	35	0.6	0	0.0
OP 30	102	1.7	0	0.0
OP 31	63	1.1	0	0.0
OP 32	106	1.8	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

PV array 20 and Route: Avenue Road

No glare found

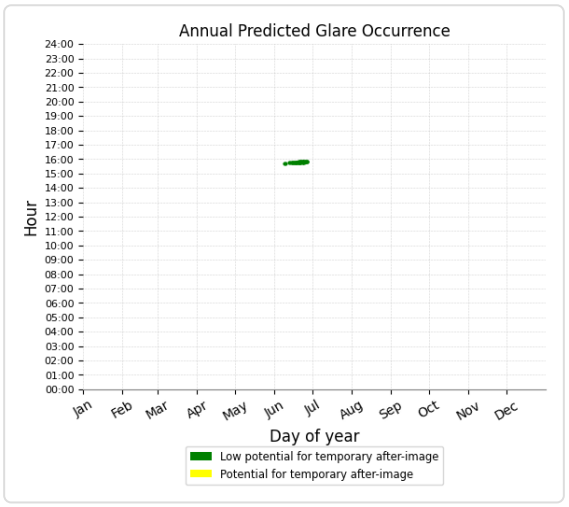
PV array 20 and Route: Main Camp Road

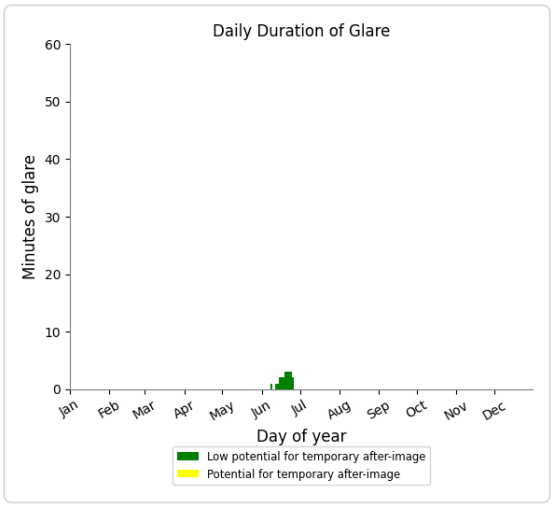
No glare found

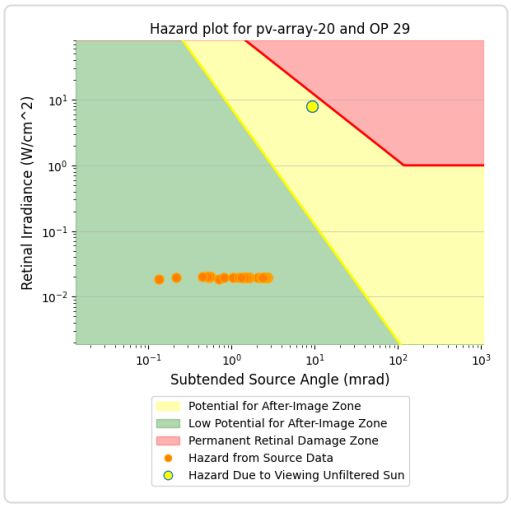
PV array 20 and OP 29

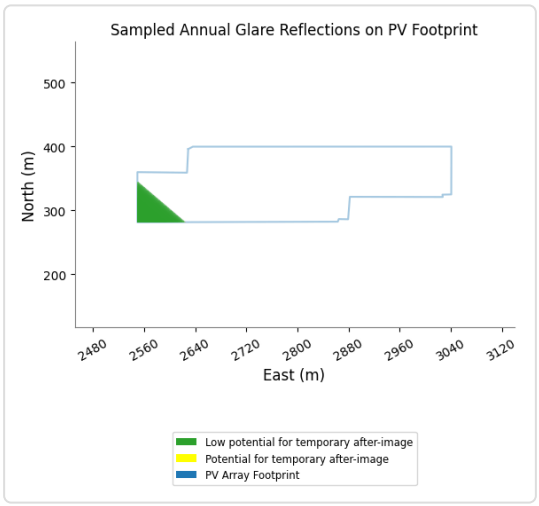
Yellow glare: none

Green glare: 35 min.





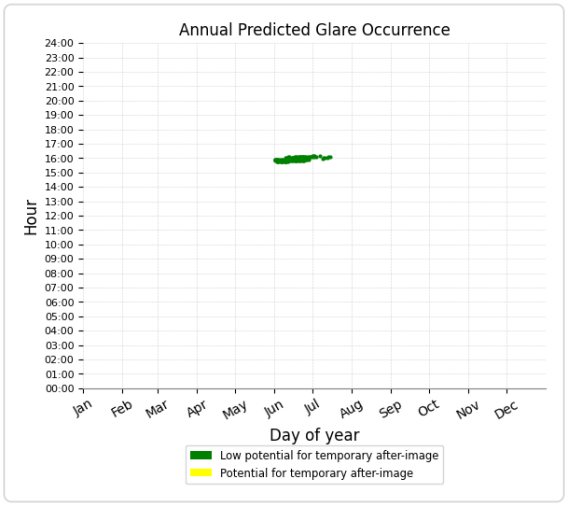


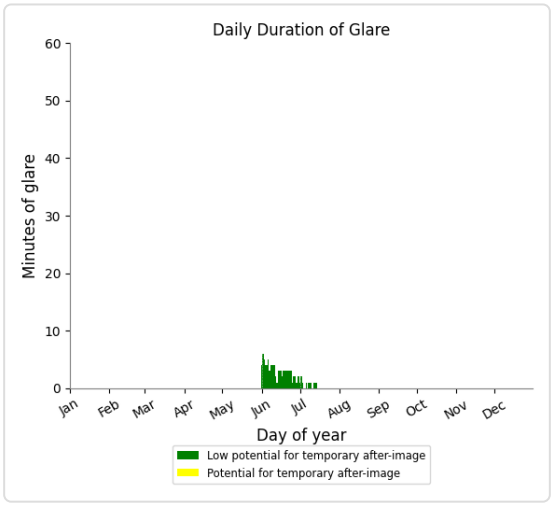


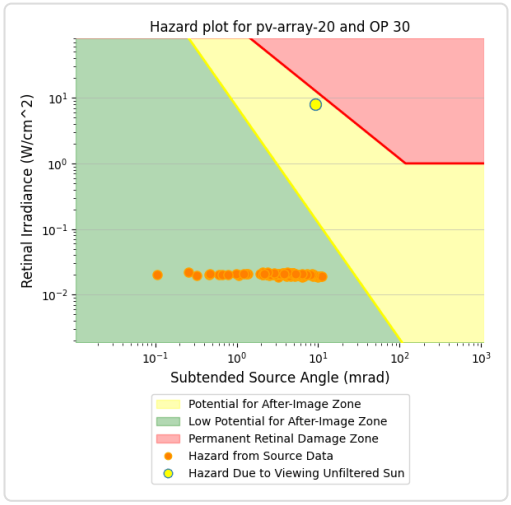
PV array 20 and OP 30

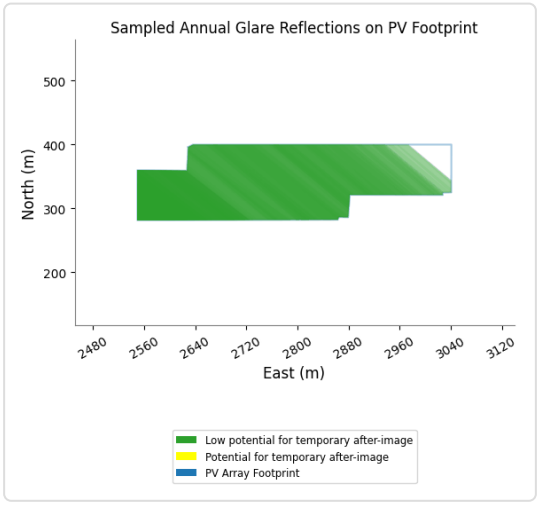
Yellow glare: none

Green glare: 102 min.





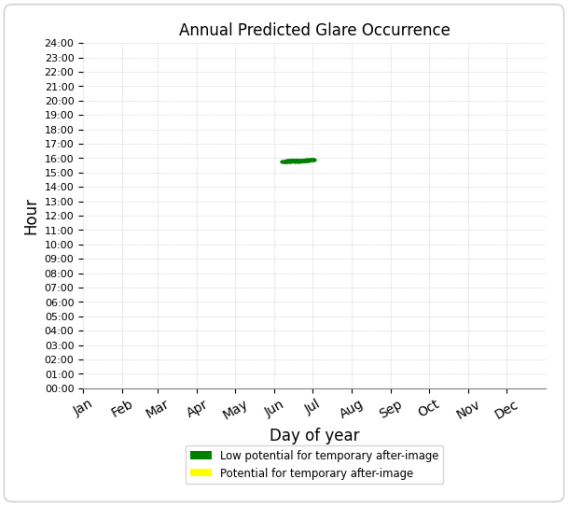


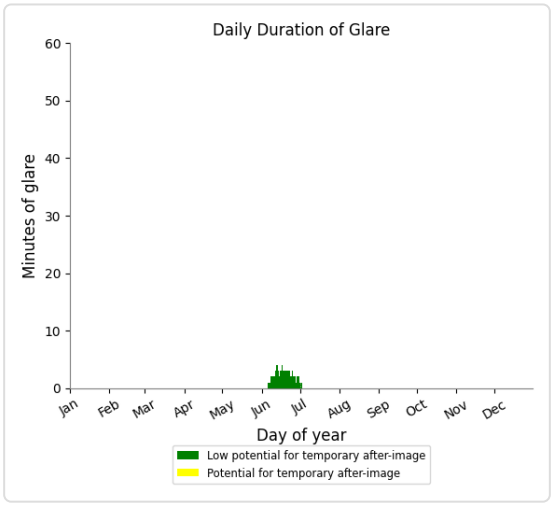


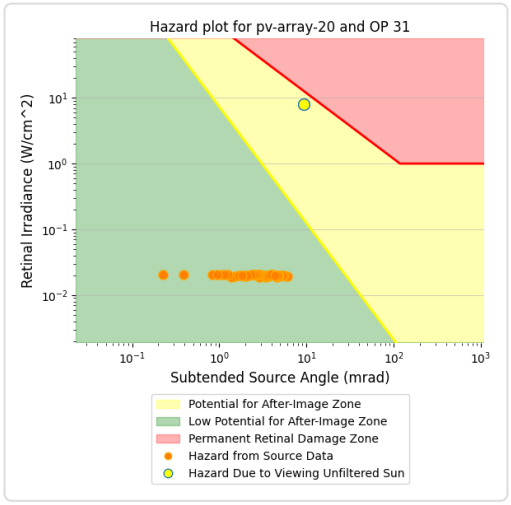
PV array 20 and OP 31

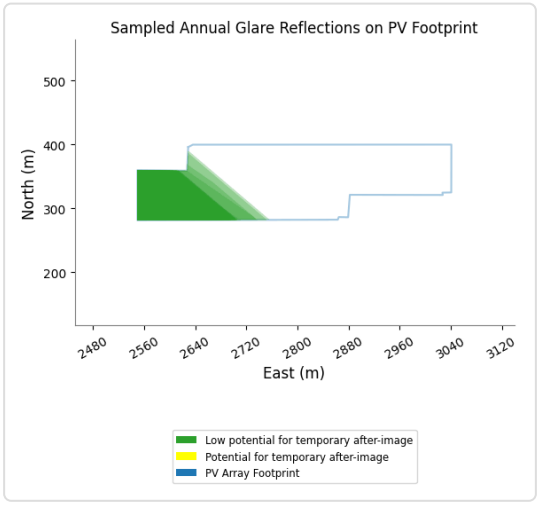
Yellow glare: none

Green glare: 63 min.





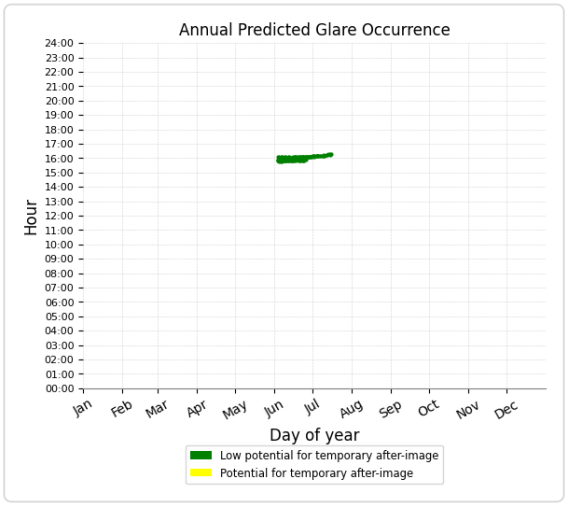


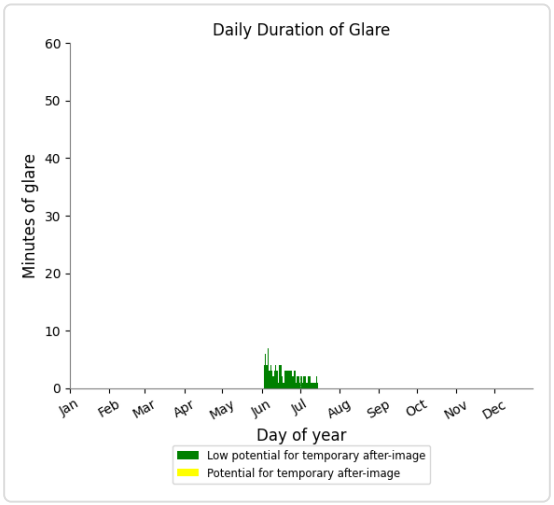


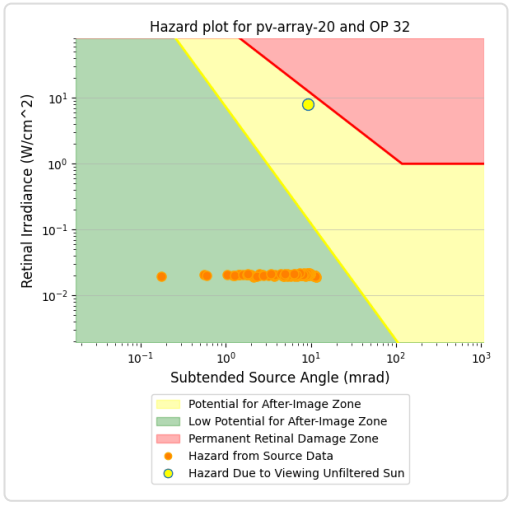
PV array 20 and OP 32

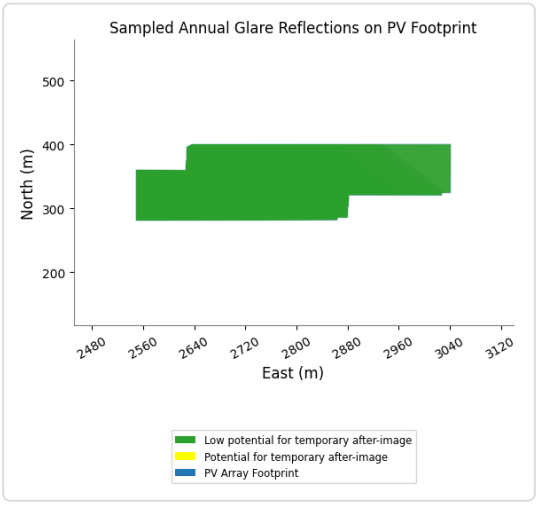
Yellow glare: none

Green glare: 106 min.









PV array 20 and OP 1

No glare found

PV array 20 and OP 2

No glare found

PV array 20 and OP 3

No glare found

PV array 20 and OP 4

No glare found

PV array 20 and OP 5

No glare found

PV array 20 and OP 6

No glare found

PV array 20 and OP 7

No glare found

PV array 20 and OP 8

No glare found

PV array 20 and OP 9

No glare found

PV array 20 and OP 10

No glare found

PV array 20 and OP 11

No glare found

PV array 20 and OP 12

No glare found

PV array 20 and OP 13

No glare found

PV array 20 and OP 14

No glare found

PV array 20 and OP 15

No glare found

PV array 20 and OP 16

No glare found

PV array 20 and OP 17

No glare found

PV array 20 and OP 18

No glare found

PV array 20 and OP 19

No glare found

PV array 20 and OP 20

No glare found

PV array 20 and OP 21

No glare found

PV array 20 and OP 22

No glare found

PV array 20 and OP 23

No glare found

PV array 20 and OP 24

No glare found

PV array 20 and OP 25

No glare found

PV array 20 and OP 26

No glare found

PV array 20 and OP 27

No glare found

PV array 20 and OP 28

No glare found

PV array 20 and OP 33

No glare found

PV: PV array 21 no glare found

Receptor results ordered by category of glare

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

PV array 21 and Route: Avenue Road

No glare found

PV array 21 and Route: Main Camp Road

No glare found

PV array 21 and OP 1

No glare found

PV array 21 and OP 2

No glare found

PV array 21 and OP 3

No glare found

PV array 21 and OP 4

No glare found

PV array 21 and OP 5

No glare found

PV array 21 and OP 6

No glare found

PV array 21 and OP 7

No glare found

PV array 21 and OP 8

No glare found

PV array 21 and OP 9

No glare found

PV array 21 and OP 10

No glare found

PV array 21 and OP 11

No glare found

PV array 21 and OP 12

No glare found

PV array 21 and OP 13

No glare found

PV array 21 and OP 14

No glare found

PV array 21 and OP 15

No glare found

PV array 21 and OP 16

No glare found

PV array 21 and OP 17

No glare found

PV array 21 and OP 18

No glare found

PV array 21 and OP 19

No glare found

PV array 21 and OP 20

No glare found

PV array 21 and OP 21

No glare found

PV array 21 and OP 22

No glare found

PV array 21 and OP 23

No glare found

PV array 21 and OP 24

No glare found

PV array 21 and OP 25

No glare found

PV array 21 and OP 26

No glare found

PV array 21 and OP 27

No glare found

PV array 21 and OP 28

No glare found

PV array 21 and OP 29

No glare found

PV array 21 and OP 30

No glare found

PV array 21 and OP 31

No glare found

PV array 21 and OP 32

No glare found

PV array 21 and OP 33

No glare found

PV: PV array 22 low potential for temporary after-image

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	0	0.0	0	0.0
Main Camp Road	0	0.0	0	0.0
OP 30	38	0.6	0	0.0
OP 32	139	2.3	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

PV array 22 and Route: Avenue Road

No glare found

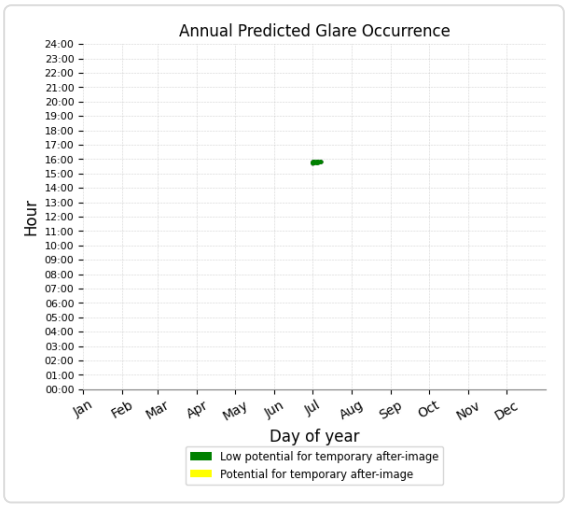
PV array 22 and Route: Main Camp Road

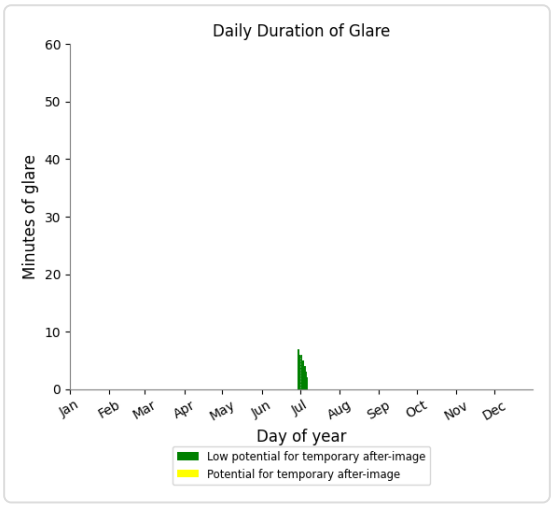
No glare found

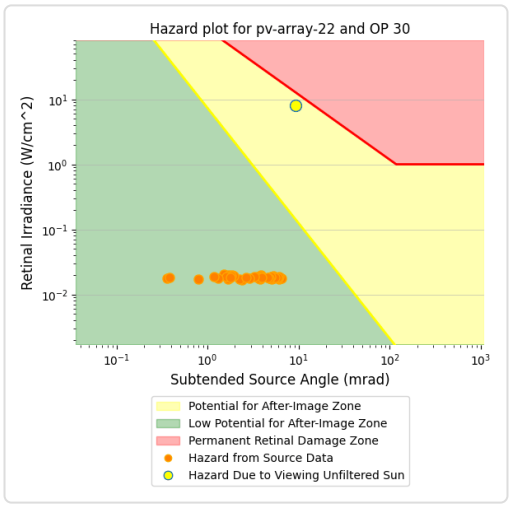
PV array 22 and OP 30

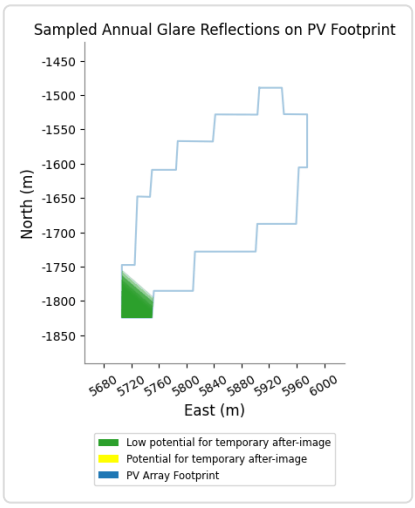
Yellow glare: none

Green glare: 38 min.





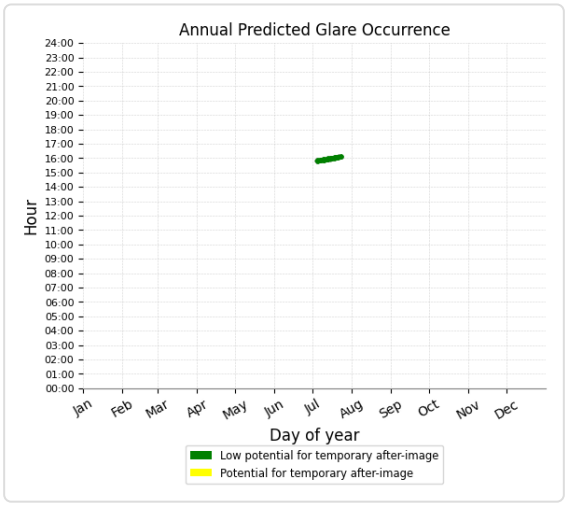


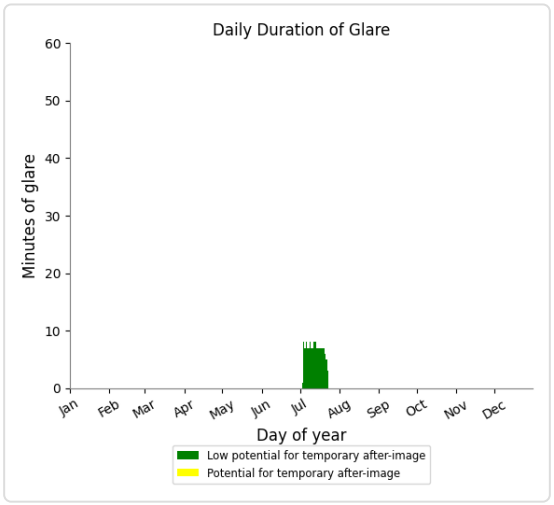


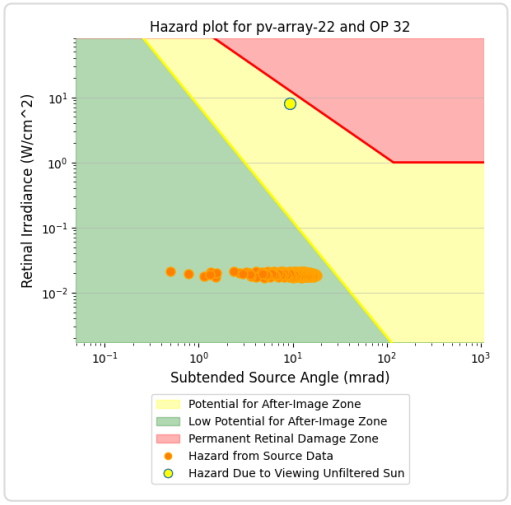
PV array 22 and OP 32

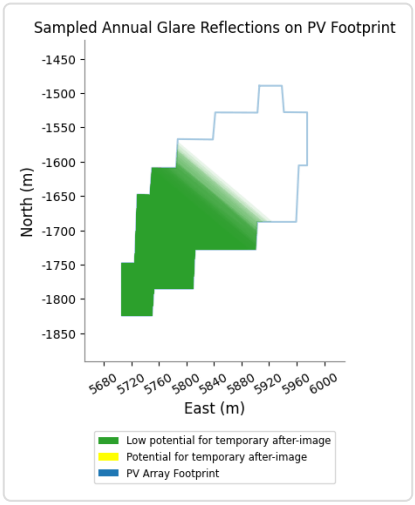
Yellow glare: none

Green glare: 139 min.









PV array 22 and OP 1

No glare found

PV array 22 and OP 2

No glare found

PV array 22 and OP 3

No glare found

PV array 22 and OP 4

No glare found

PV array 22 and OP 5

No glare found

PV array 22 and OP 6

No glare found

PV array 22 and OP 7

No glare found

PV array 22 and OP 8

No glare found

PV array 22 and OP 9

No glare found

PV array 22 and OP 10

No glare found

PV array 22 and OP 11

No glare found

PV array 22 and OP 12

No glare found

PV array 22 and OP 13

No glare found

PV array 22 and OP 14

No glare found

PV array 22 and OP 15

No glare found

PV array 22 and OP 16

No glare found

PV array 22 and OP 17

No glare found

PV array 22 and OP 18

No glare found

PV array 22 and OP 19

No glare found

PV array 22 and OP 20

No glare found

PV array 22 and OP 21

No glare found

PV array 22 and OP 22

No glare found

PV array 22 and OP 23

No glare found

PV array 22 and OP 24

No glare found

PV array 22 and OP 25

No glare found

PV array 22 and OP 26

No glare found

PV array 22 and OP 27

No glare found

PV array 22 and OP 28

No glare found

PV array 22 and OP 29

No glare found

PV array 22 and OP 31

No glare found

PV array 22 and OP 33

No glare found

PV: PV array 23 low potential for temporary after-image

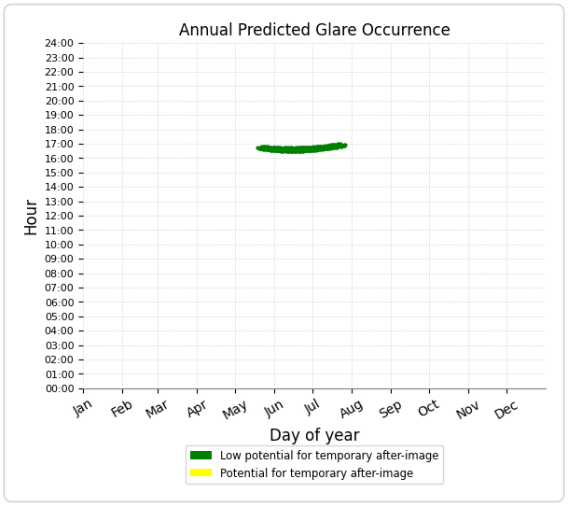
Receptor results ordered by category of glare

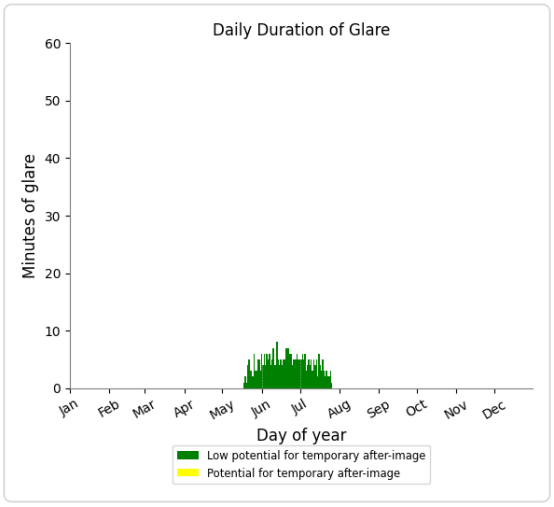
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	307	5.1	0	0.0
Avenue Road	0	0.0	0	0.0
OP 29	88	1.5	0	0.0
OP 30	252	4.2	0	0.0
OP 31	116	1.9	0	0.0
OP 32	305	5.1	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

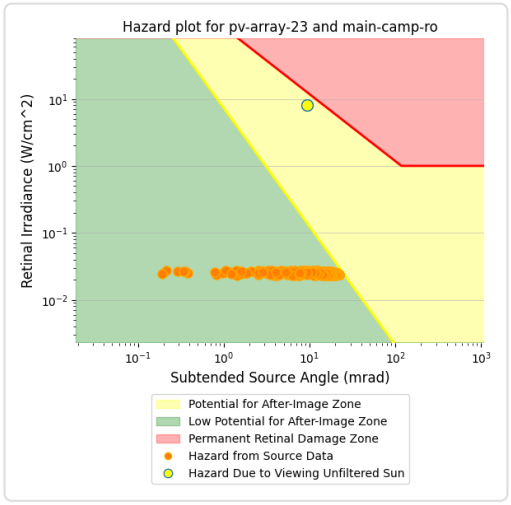
PV array 23 and Route: Main Camp Road

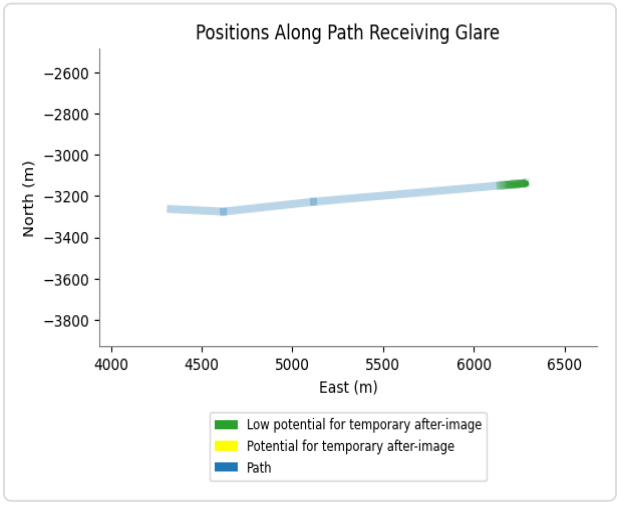
Yellow glare: none

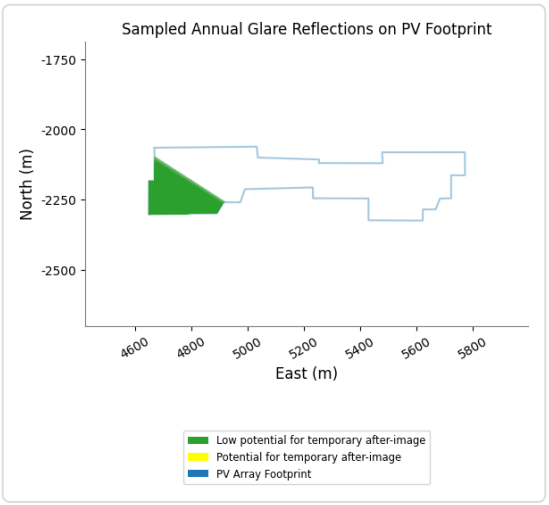
Green glare: 307 min.











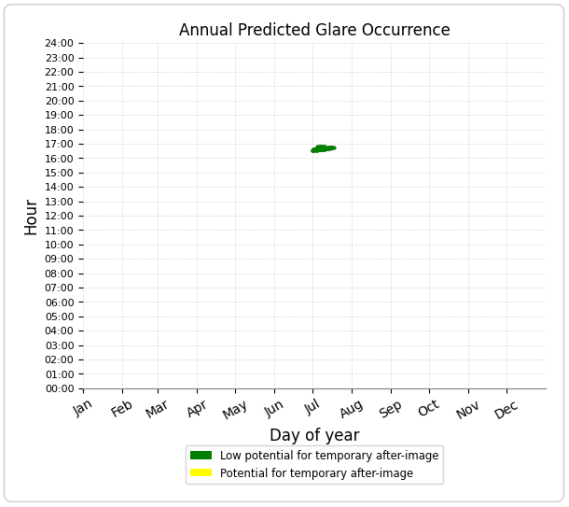
PV array 23 and Route: Avenue Road

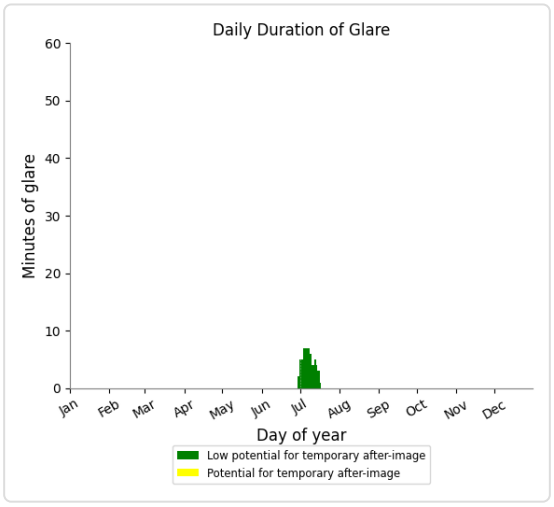
No glare found

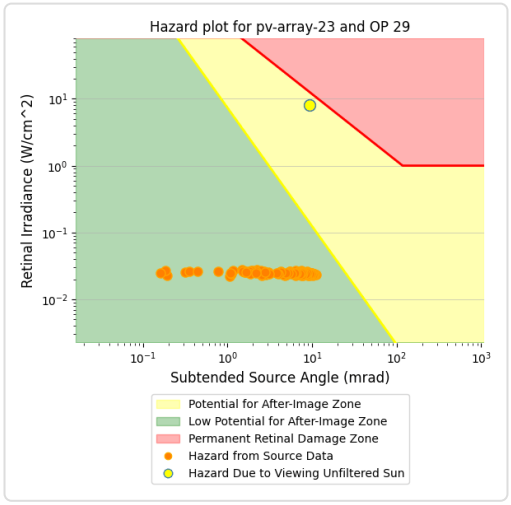
PV array 23 and OP 29

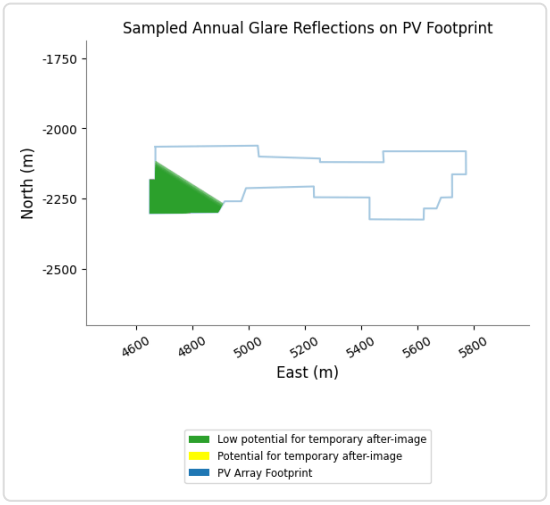
Yellow glare: none

Green glare: 88 min.





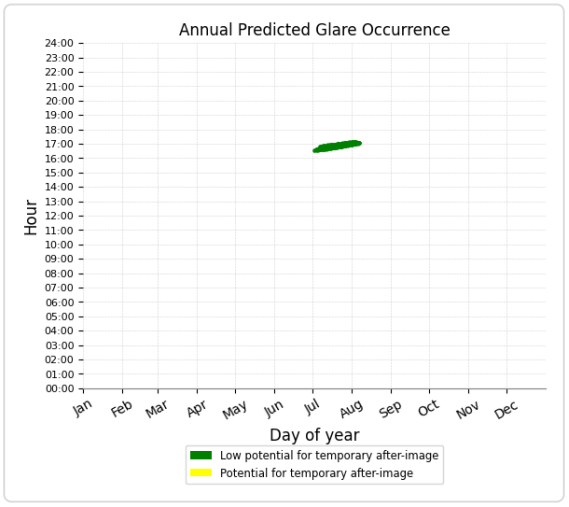


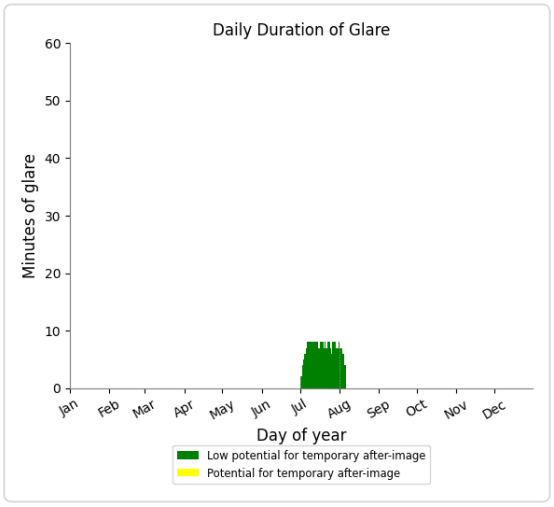


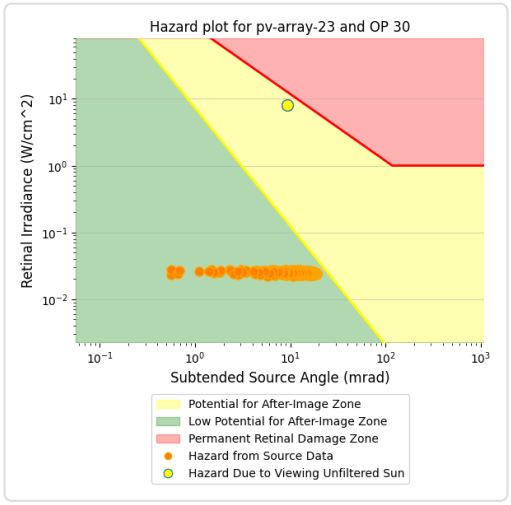
PV array 23 and OP 30

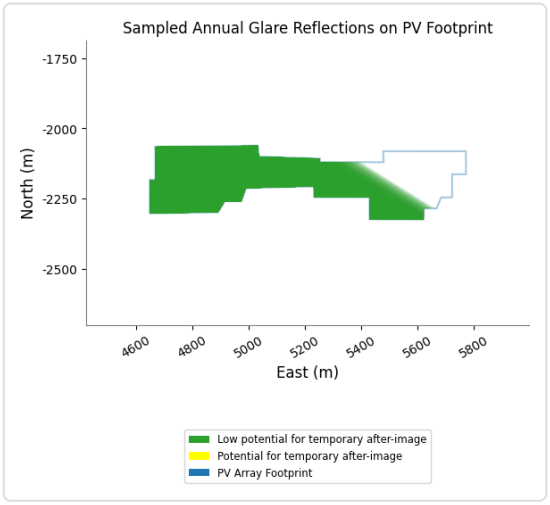
Yellow glare: none

Green glare: 252 min.





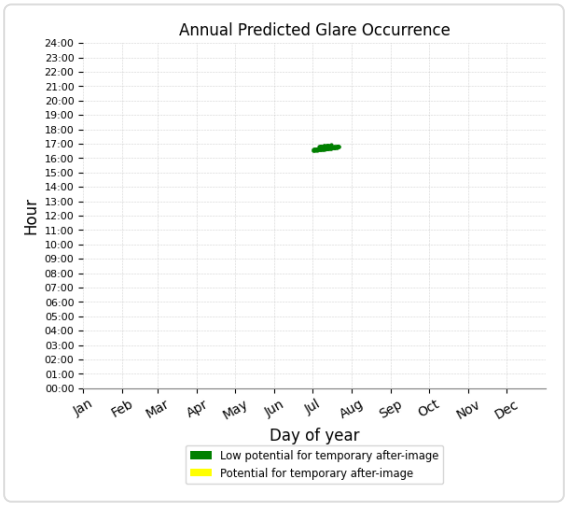


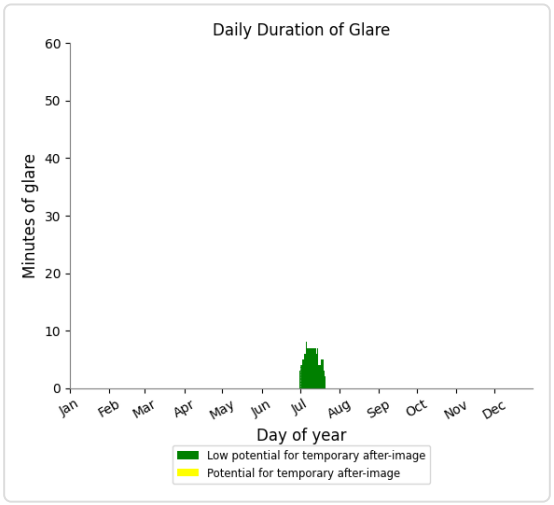


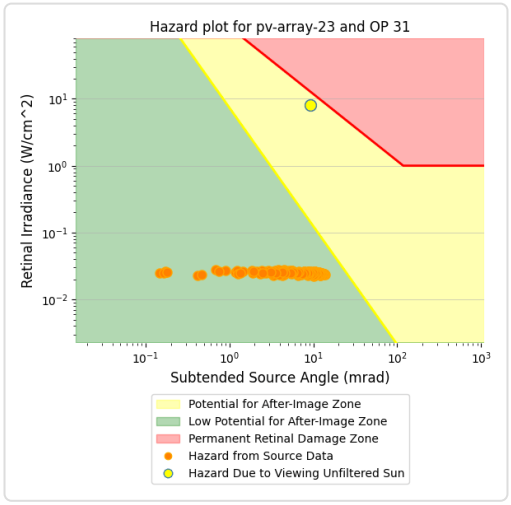
PV array 23 and OP 31

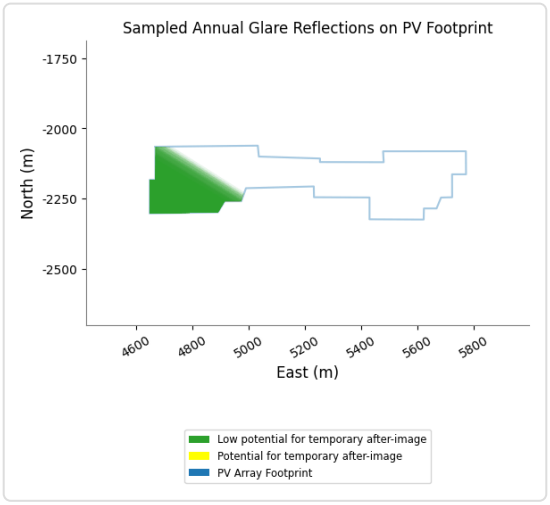
Yellow glare: none

Green glare: 116 min.





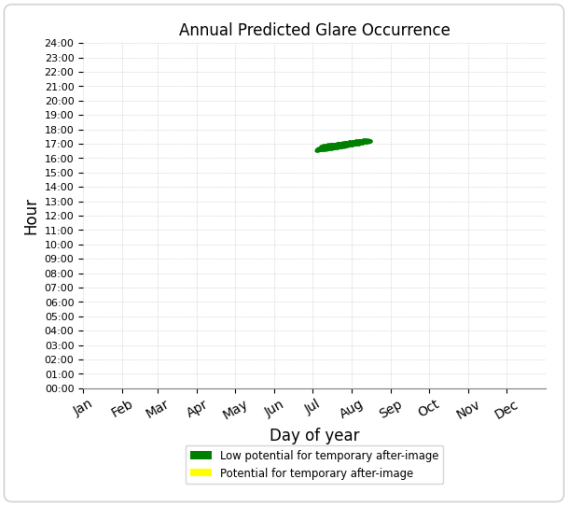


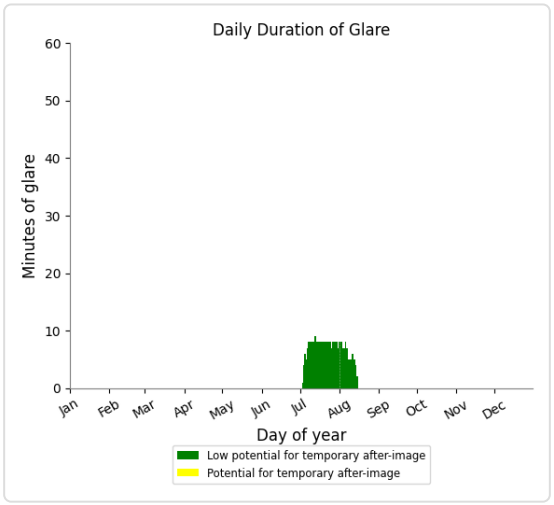


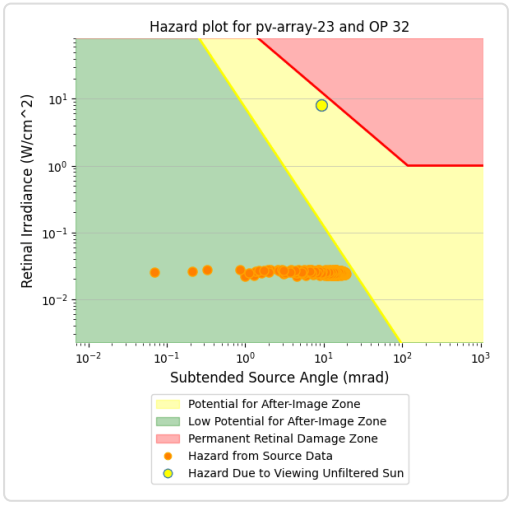
PV array 23 and OP 32

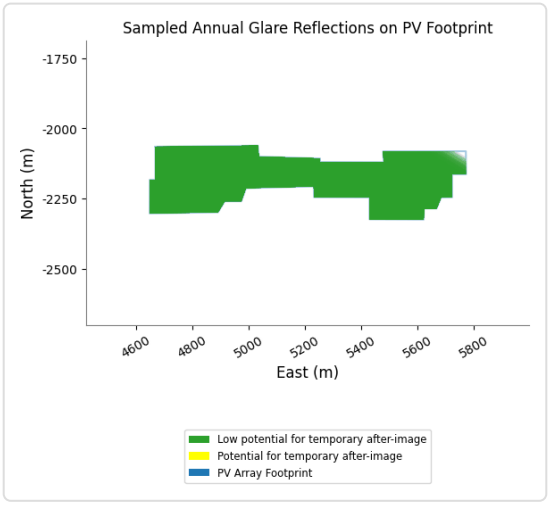
Yellow glare: none

Green glare: 305 min.









PV array 23 and OP 1

No glare found

PV array 23 and OP 2

No glare found

PV array 23 and OP 3

No glare found

PV array 23 and OP 4

No glare found

PV array 23 and OP 5

No glare found

PV array 23 and OP 6

No glare found

PV array 23 and OP 7

No glare found

PV array 23 and OP 8

No glare found

PV array 23 and OP 9

No glare found

PV array 23 and OP 10

No glare found

PV array 23 and OP 11

No glare found

PV array 23 and OP 12

No glare found

PV array 23 and OP 13

No glare found

PV array 23 and OP 14

No glare found

PV array 23 and OP 15

No glare found

PV array 23 and OP 16

No glare found

PV array 23 and OP 17

No glare found

PV array 23 and OP 18

No glare found

PV array 23 and OP 19

No glare found

PV array 23 and OP 20

No glare found

PV array 23 and OP 21

No glare found

PV array 23 and OP 22

No glare found

PV array 23 and OP 23

No glare found

PV array 23 and OP 24

No glare found

PV array 23 and OP 25

No glare found

PV array 23 and OP 26

No glare found

PV array 23 and OP 27

No glare found

PV array 23 and OP 28

No glare found

PV array 23 and OP 33

No glare found

PV: PV array 3 low potential for temporary after-image

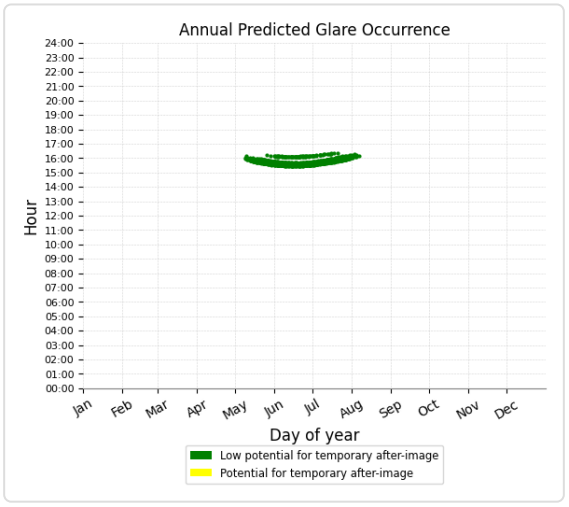
Receptor results ordered by category of glare

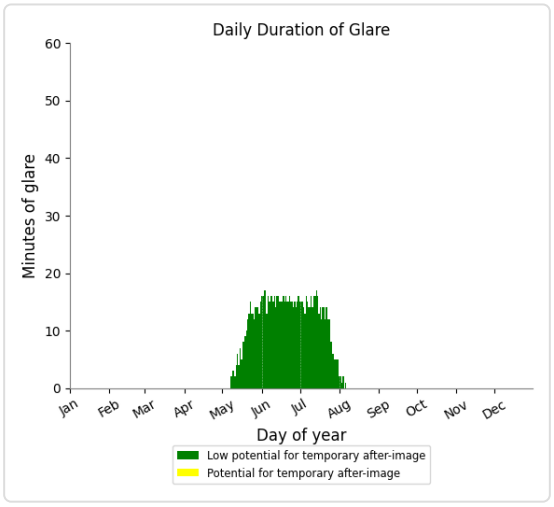
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	1,073	17.9	0	0.0
Avenue Road	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

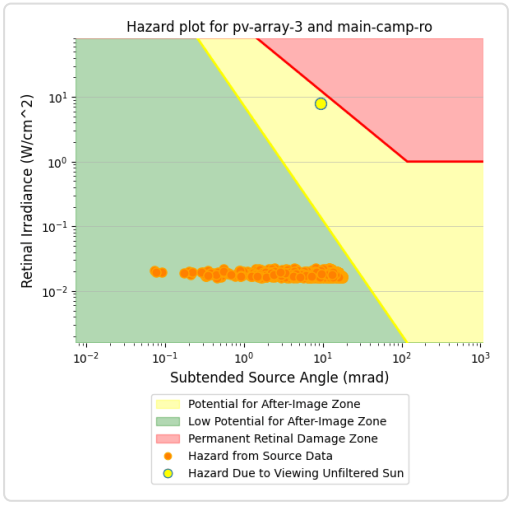
PV array 3 and Route: Main Camp Road

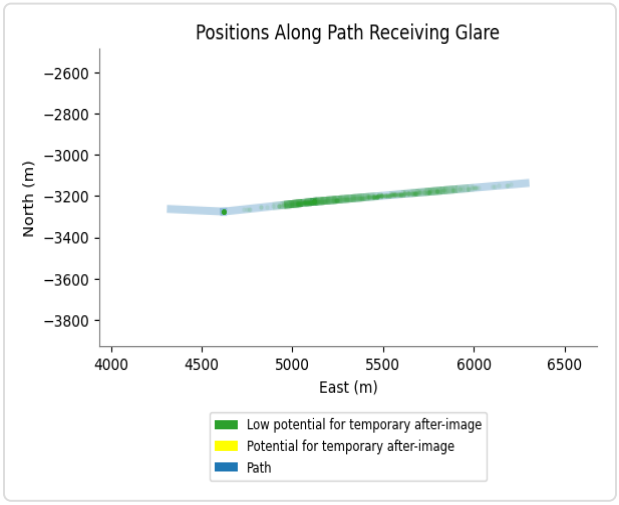
Yellow glare: none

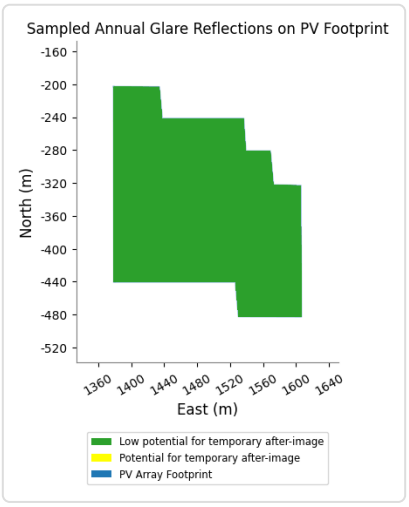
Green glare: 1,073 min.











PV array 3 and Route: Avenue Road

No glare found

PV array 3 and OP 1

No glare found

PV array 3 and OP 2

No glare found

PV array 3 and OP 3

No glare found

PV array 3 and OP 4

No glare found

PV array 3 and OP 5

No glare found

PV array 3 and OP 6

No glare found

PV array 3 and OP 7

No glare found

PV array 3 and OP 8

No glare found

PV array 3 and OP 9

No glare found

PV array 3 and OP 10

No glare found

PV array 3 and OP 11

No glare found

PV array 3 and OP 12

No glare found

PV array 3 and OP 13

No glare found

PV array 3 and OP 14

No glare found

PV array 3 and OP 15

No glare found

PV array 3 and OP 16

No glare found

PV array 3 and OP 17

No glare found

PV array 3 and OP 18

No glare found

PV array 3 and OP 19

No glare found

PV array 3 and OP 20

No glare found

PV array 3 and OP 21

No glare found

PV array 3 and OP 22

No glare found

PV array 3 and OP 23

No glare found

PV array 3 and OP 24

No glare found

PV array 3 and OP 25

No glare found

PV array 3 and OP 26

No glare found

PV array 3 and OP 27

No glare found

PV array 3 and OP 28

No glare found

PV array 3 and OP 29

No glare found

PV array 3 and OP 30

No glare found

PV array 3 and OP 31

No glare found

PV array 3 and OP 32

No glare found

PV array 3 and OP 33

No glare found

PV: PV array 4 potential temporary after-image

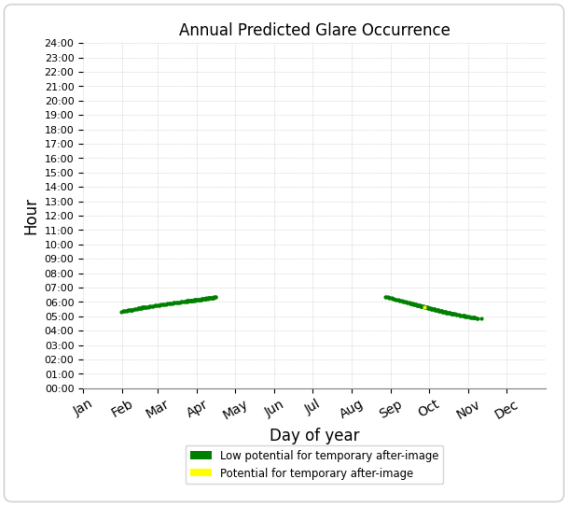
Receptor results ordered by category of glare

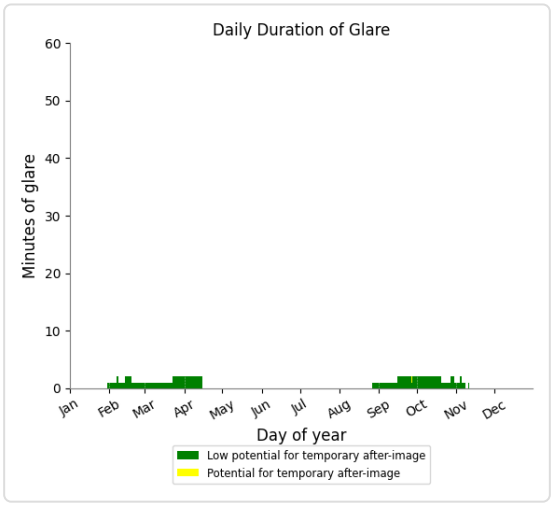
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	220	3.7	1	0.0
Main Camp Road	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

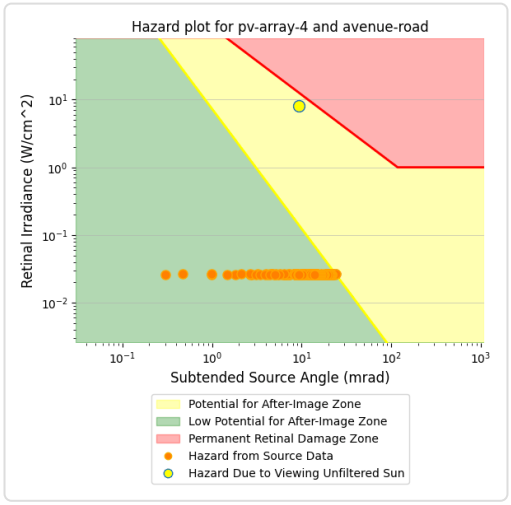
PV array 4 and Route: Avenue Road

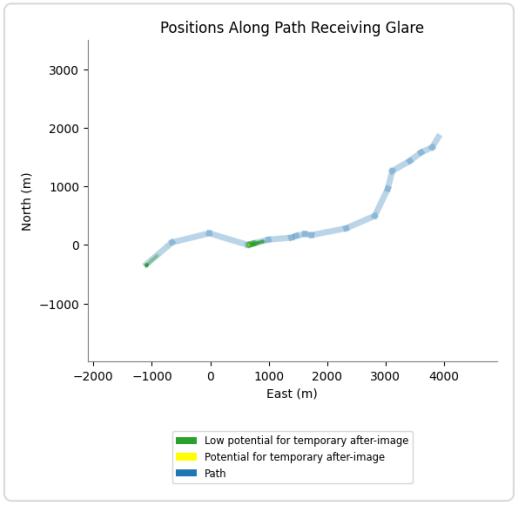
Yellow glare: 1 min.

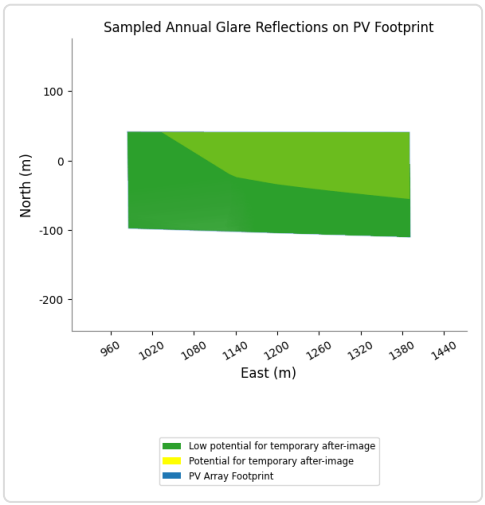
Green glare: 220 min.











PV array 4 and Route: Main Camp Road

No glare found

PV array 4 and OP 1

No glare found

PV array 4 and OP 2

No glare found

PV array 4 and OP 3

No glare found

PV array 4 and OP 4

No glare found

PV array 4 and OP 5

No glare found

PV array 4 and OP 6

No glare found

PV array 4 and OP 7

No glare found

PV array 4 and OP 8

No glare found

PV array 4 and OP 9

No glare found

PV array 4 and OP 10

No glare found

PV array 4 and OP 11

No glare found

PV array 4 and OP 12

No glare found

PV array 4 and OP 13

No glare found

PV array 4 and OP 14

No glare found

PV array 4 and OP 15

No glare found

PV array 4 and OP 16

No glare found

PV array 4 and OP 17

No glare found

PV array 4 and OP 18

No glare found

PV array 4 and OP 19

No glare found

PV array 4 and OP 20

No glare found

PV array 4 and OP 21

No glare found

PV array 4 and OP 22

No glare found

PV array 4 and OP 23

No glare found

PV array 4 and OP 24

No glare found

PV array 4 and OP 25

No glare found

PV array 4 and OP 26

No glare found

PV array 4 and OP 27

No glare found

PV array 4 and OP 28

No glare found

PV array 4 and OP 29

No glare found

PV array 4 and OP 30

No glare found

PV array 4 and OP 31

No glare found

PV array 4 and OP 32

No glare found

PV array 4 and OP 33

No glare found

PV: PV array 5 no glare found

Receptor results ordered by category of glare

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

PV array 5 and Route: Avenue Road

No glare found

PV array 5 and Route: Main Camp Road

No glare found

PV array 5 and OP 1

No glare found

PV array 5 and OP 2

No glare found

PV array 5 and OP 3

No glare found

PV array 5 and OP 4

No glare found

PV array 5 and OP 5

No glare found

PV array 5 and OP 6

No glare found

PV array 5 and OP 7

No glare found

PV array 5 and OP 8

No glare found

PV array 5 and OP 9

No glare found

PV array 5 and OP 10

No glare found

PV array 5 and OP 11

No glare found

PV array 5 and OP 12

No glare found

PV array 5 and OP 13

No glare found

PV array 5 and OP 14

No glare found

PV array 5 and OP 15

No glare found

PV array 5 and OP 16

No glare found

PV array 5 and OP 17

No glare found

PV array 5 and OP 18

No glare found

PV array 5 and OP 19

No glare found

PV array 5 and OP 20

No glare found

PV array 5 and OP 21

No glare found

PV array 5 and OP 22

No glare found

PV array 5 and OP 23

No glare found

PV array 5 and OP 24

No glare found

PV array 5 and OP 25

No glare found

PV array 5 and OP 26

No glare found

PV array 5 and OP 27

No glare found

PV array 5 and OP 28

No glare found

PV array 5 and OP 29

No glare found

PV array 5 and OP 30

No glare found

PV array 5 and OP 31

No glare found

PV array 5 and OP 32

No glare found

PV array 5 and OP 33

No glare found

PV: PV array 6 potential temporary after-image

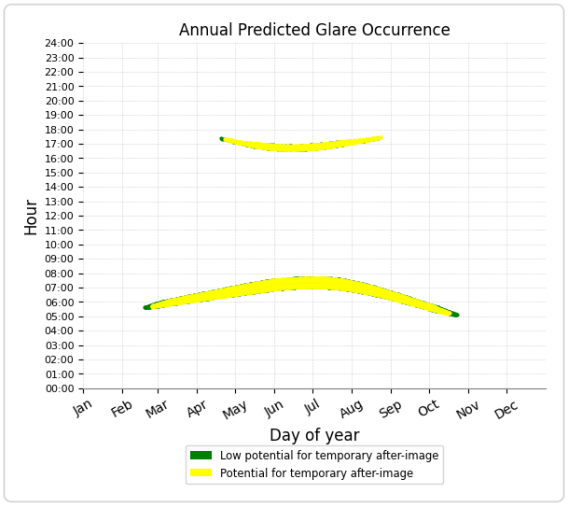
Receptor results ordered by category of glare

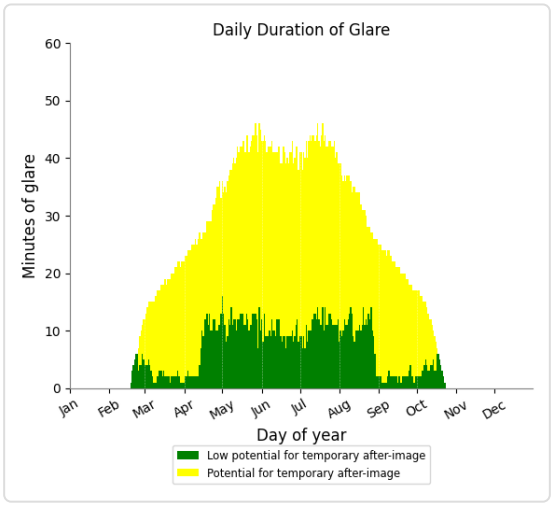
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	1,783	29.7	5,385	89.8
Main Camp Road	339	5.7	0	0.0
OP 4	19	0.3	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

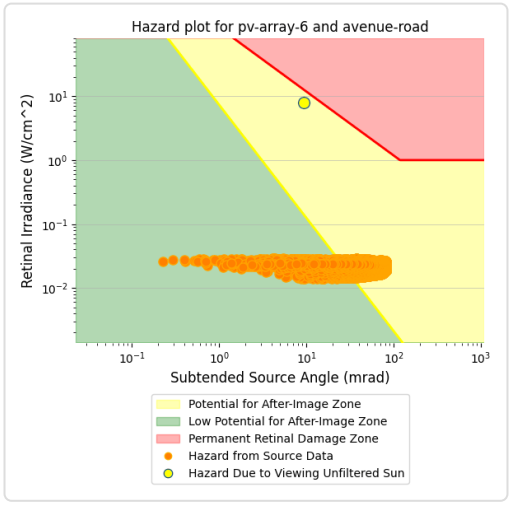
PV array 6 and Route: Avenue Road

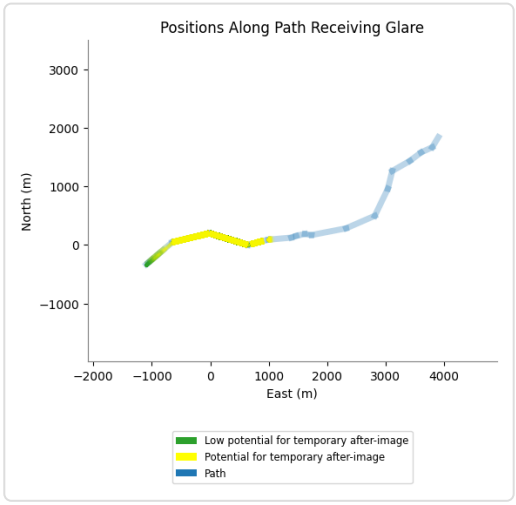
Yellow glare: 5,385 min.

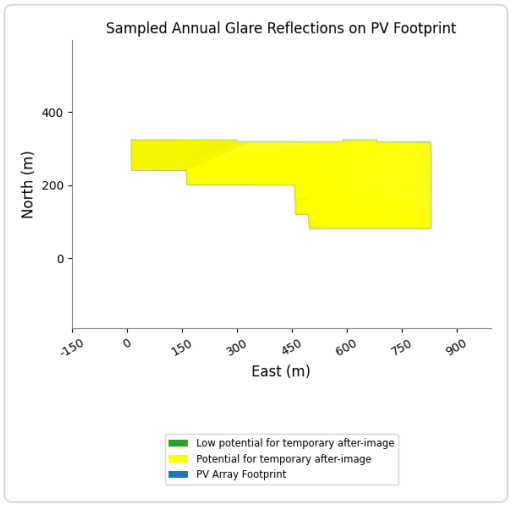
Green glare: 1,783 min.







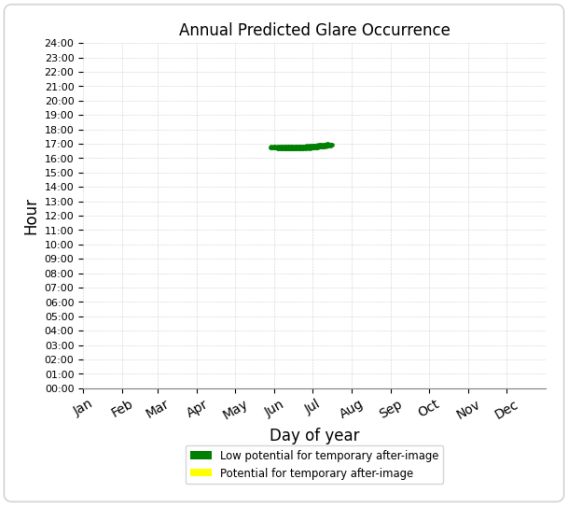


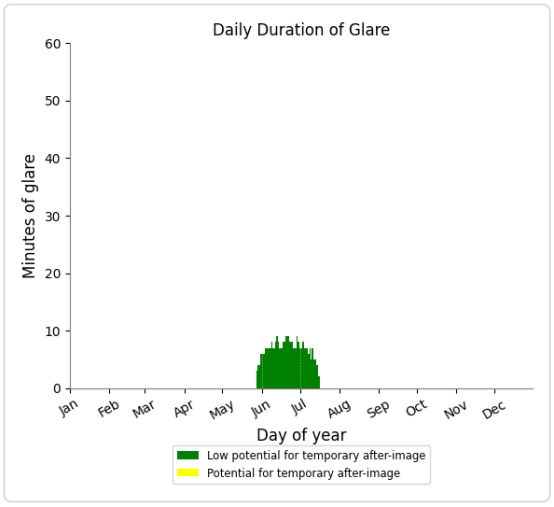


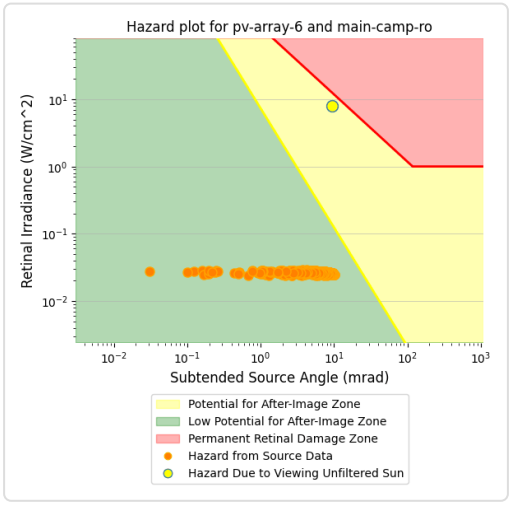
PV array 6 and Route: Main Camp Road

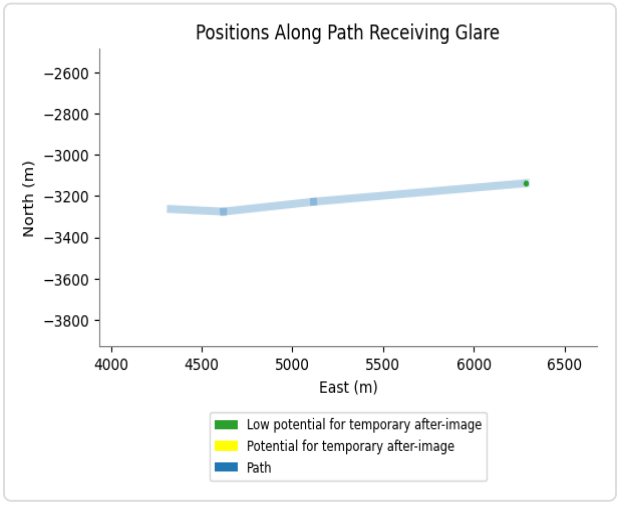
Yellow glare: none

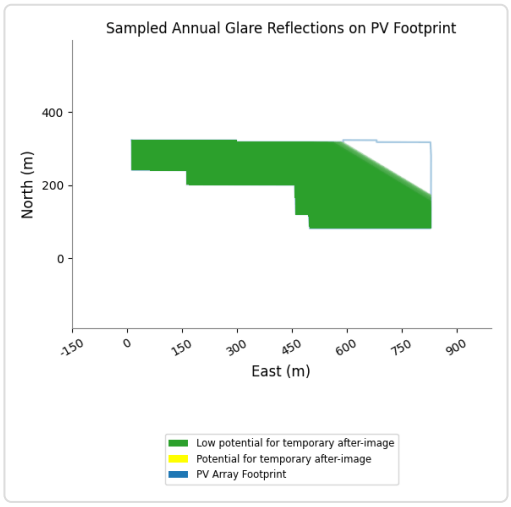
Green glare: 339 min.





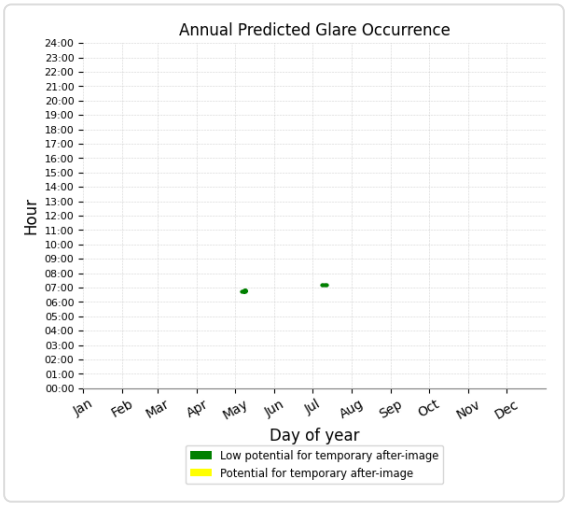


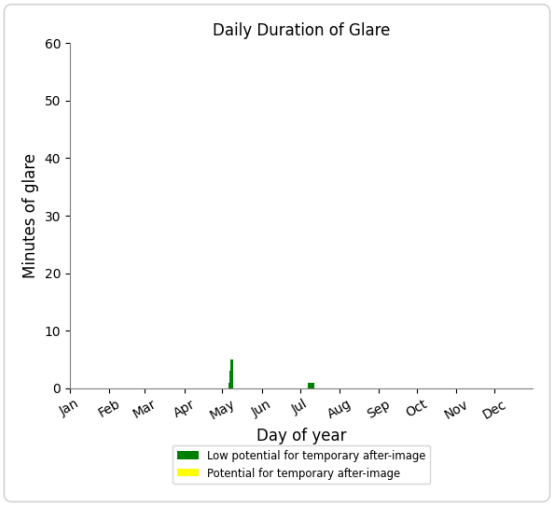


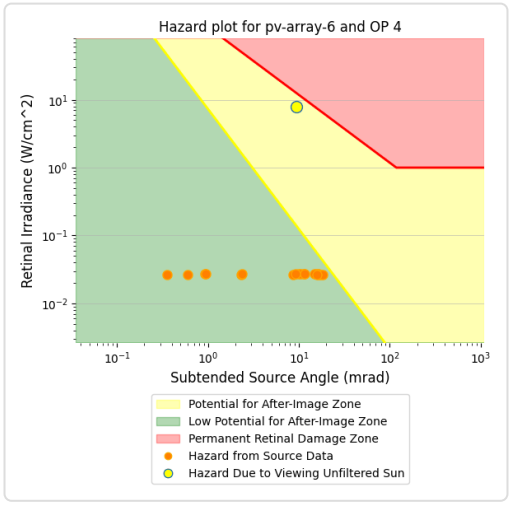


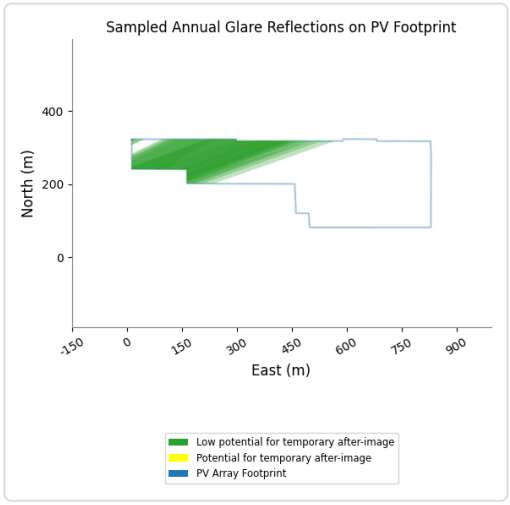
PV array 6 and OP 4

Yellow glare: none
Green glare: 19 min.









PV array 6 and OP 1

No glare found

PV array 6 and OP 2

No glare found

PV array 6 and OP 3

No glare found

PV array 6 and OP 5

No glare found

PV array 6 and OP 6

No glare found

PV array 6 and OP 7

No glare found

PV array 6 and OP 8

No glare found

PV array 6 and OP 9

No glare found

PV array 6 and OP 10

No glare found

PV array 6 and OP 11

No glare found

PV array 6 and OP 12

No glare found

PV array 6 and OP 13

No glare found

PV array 6 and OP 14

No glare found

PV array 6 and OP 15

No glare found

PV array 6 and OP 16

No glare found

PV array 6 and OP 17

No glare found

PV array 6 and OP 18

No glare found

PV array 6 and OP 19

No glare found

PV array 6 and OP 20

No glare found

PV array 6 and OP 21

No glare found

PV array 6 and OP 22

No glare found

PV array 6 and OP 23

No glare found

PV array 6 and OP 24

No glare found

PV array 6 and OP 25

No glare found

PV array 6 and OP 26

No glare found

PV array 6 and OP 27

No glare found

PV array 6 and OP 28

No glare found

PV array 6 and OP 29

No glare found

PV array 6 and OP 30

No glare found

PV array 6 and OP 31

No glare found

PV array 6 and OP 32

No glare found

PV array 6 and OP 33

No glare found

PV: PV array 7 potential temporary after-image

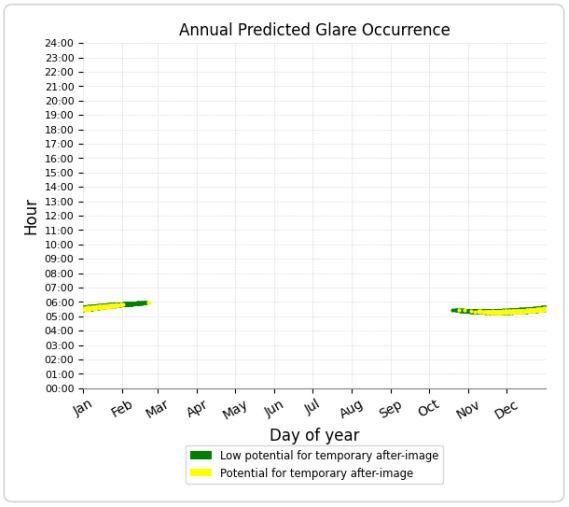
Receptor results ordered by category of glare

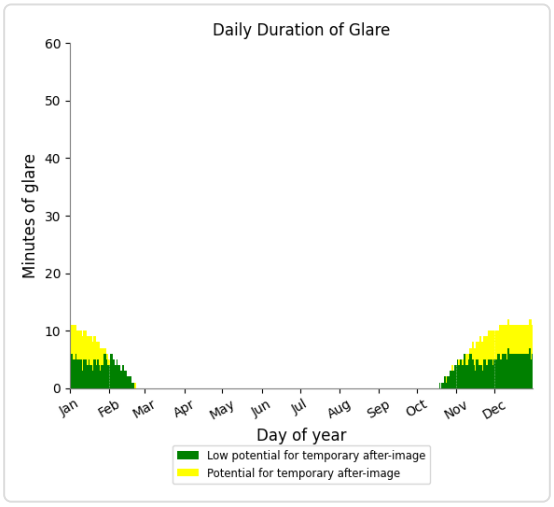
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	563	9.4	376	6.3
Main Camp Road	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

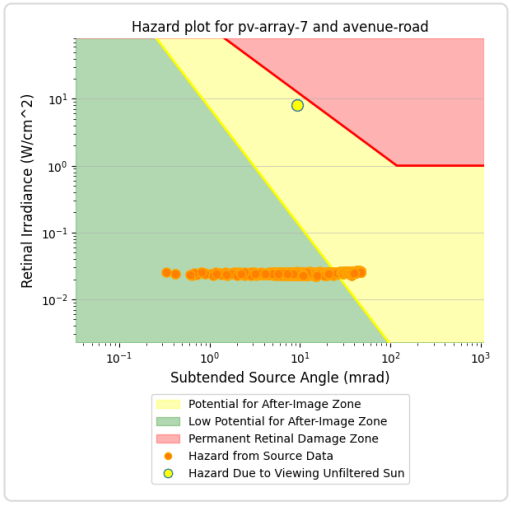
PV array 7 and Route: Avenue Road

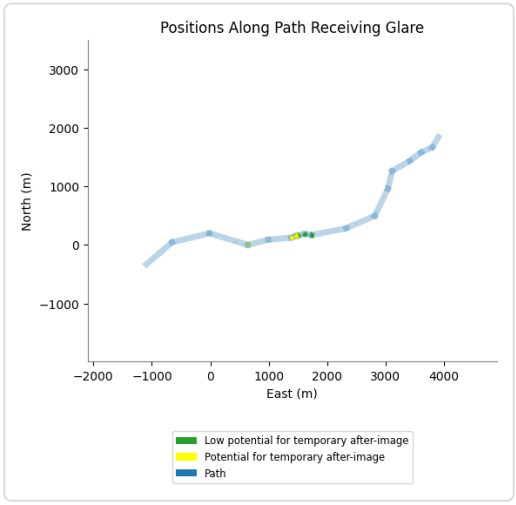
Yellow glare: 376 min.

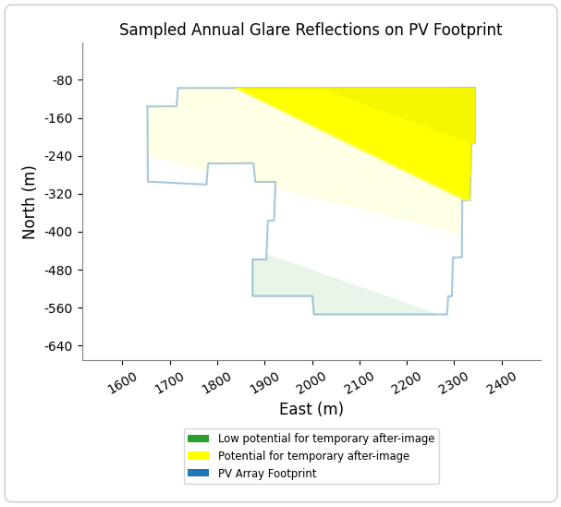
Green glare: 563 min.











PV array 7 and Route: Main Camp Road

No glare found

PV array 7 and OP 1

No glare found

PV array 7 and OP 2

No glare found

PV array 7 and OP 3

No glare found

PV array 7 and OP 4

No glare found

PV array 7 and OP 5

No glare found

PV array 7 and OP 6

No glare found

PV array 7 and OP 7

No glare found

PV array 7 and OP 8

No glare found

PV array 7 and OP 9

No glare found

PV array 7 and OP 10

No glare found

PV array 7 and OP 11

No glare found

PV array 7 and OP 12

No glare found

PV array 7 and OP 13

No glare found

PV array 7 and OP 14

No glare found

PV array 7 and OP 15

No glare found

PV array 7 and OP 16

No glare found

PV array 7 and OP 17

No glare found

PV array 7 and OP 18

No glare found

PV array 7 and OP 19

No glare found

PV array 7 and OP 20

No glare found

PV array 7 and OP 21

No glare found

PV array 7 and OP 22

No glare found

PV array 7 and OP 23

No glare found

PV array 7 and OP 24

No glare found

PV array 7 and OP 25

No glare found

PV array 7 and OP 26

No glare found

PV array 7 and OP 27

No glare found

PV array 7 and OP 28

No glare found

PV array 7 and OP 29

No glare found

PV array 7 and OP 30

No glare found

PV array 7 and OP 31

No glare found

PV array 7 and OP 32

No glare found

PV array 7 and OP 33

No glare found

PV: PV array 8 potential temporary after-image

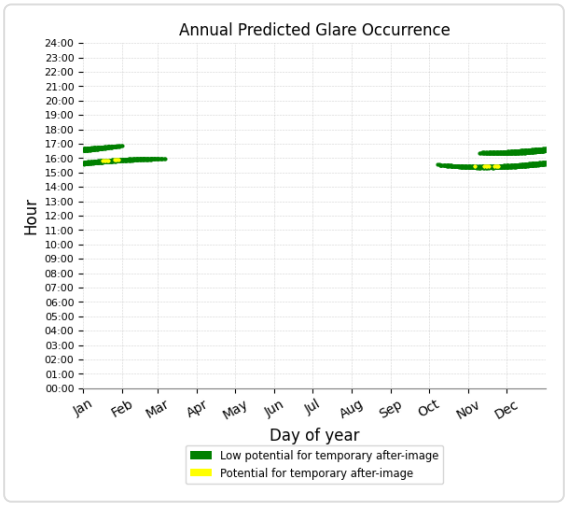
Receptor results ordered by category of glare

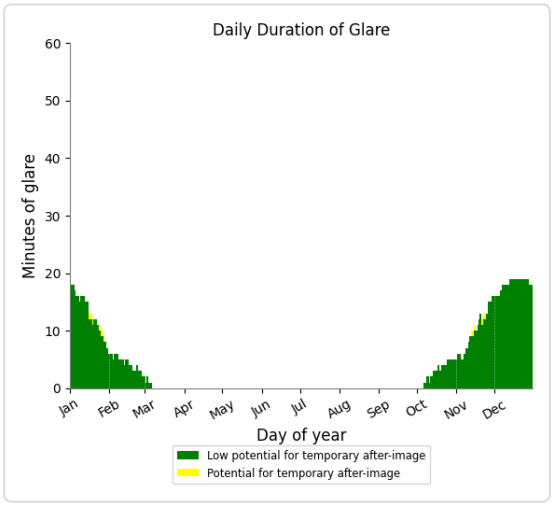
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	1,482	24.7	18	0.3
Main Camp Road	0	0.0	0	0.0
OP 9	1,345	22.4	0	0.0
OP 10	48	0.8	0	0.0
OP 11	951	15.8	0	0.0
OP 12	209	3.5	0	0.0
OP 13	334	5.6	0	0.0
OP 14	903	15.1	0	0.0
OP 15	1,095	18.2	0	0.0
OP 16	1,265	21.1	0	0.0
OP 17	80	1.3	0	0.0
OP 18	712	11.9	0	0.0
OP 19	444	7.4	0	0.0
OP 22	298	5.0	0	0.0
OP 23	244	4.1	0	0.0
OP 24	115	1.9	0	0.0
OP 25	417	7.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

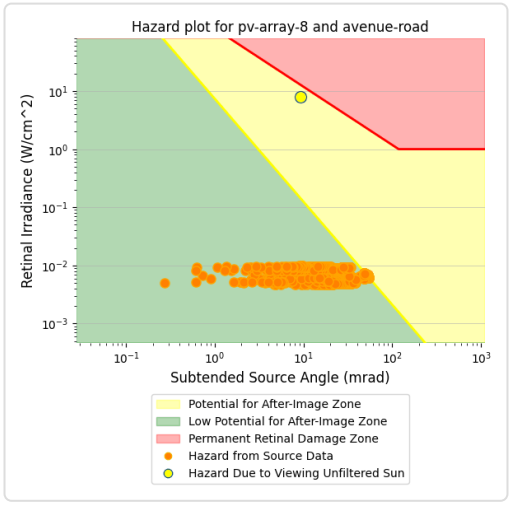
PV array 8 and Route: Avenue Road

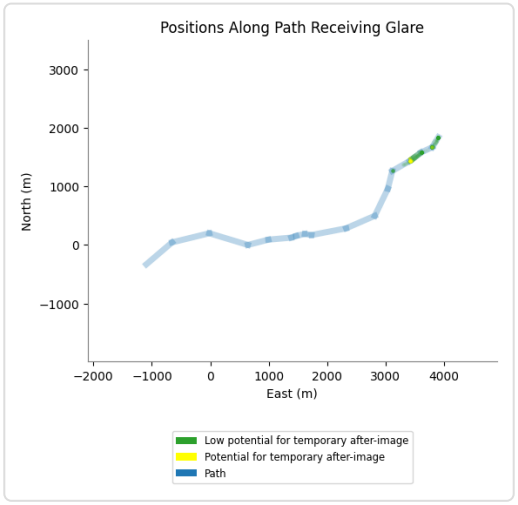
Yellow glare: 18 min.

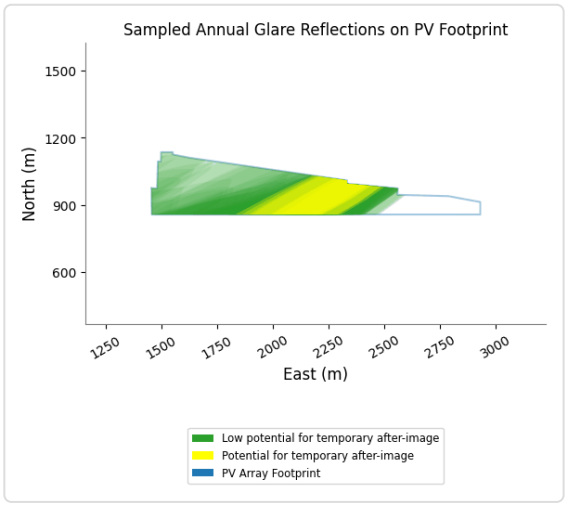
Green glare: 1,482 min.











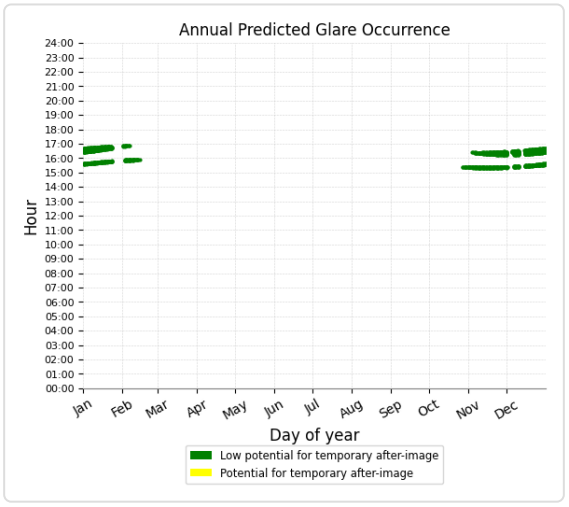
PV array 8 and Route: Main Camp Road

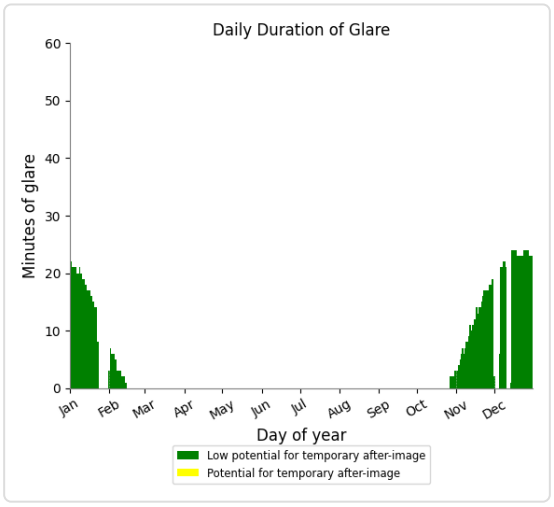
No glare found

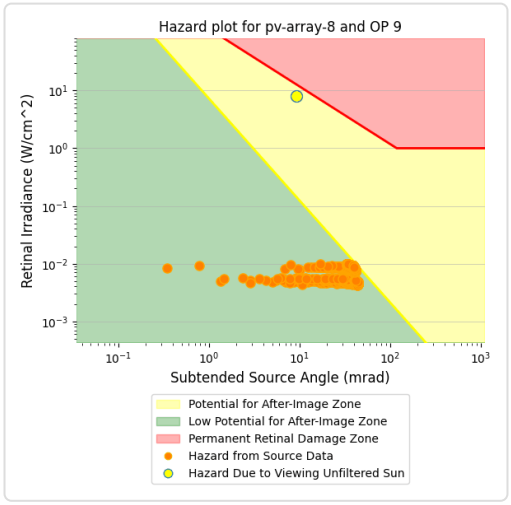
PV array 8 and OP 9

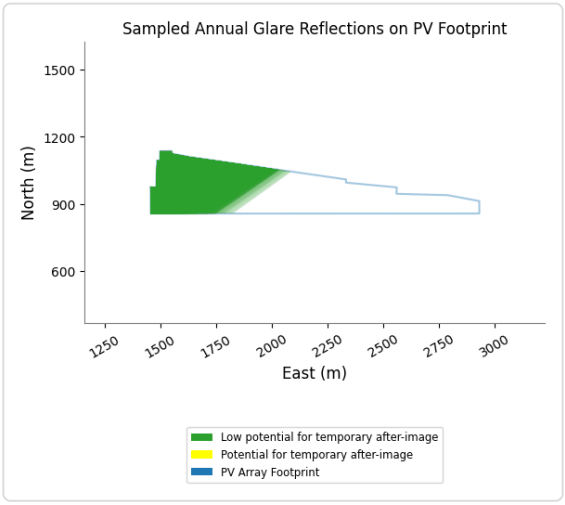
Yellow glare: none

Green glare: 1,345 min.





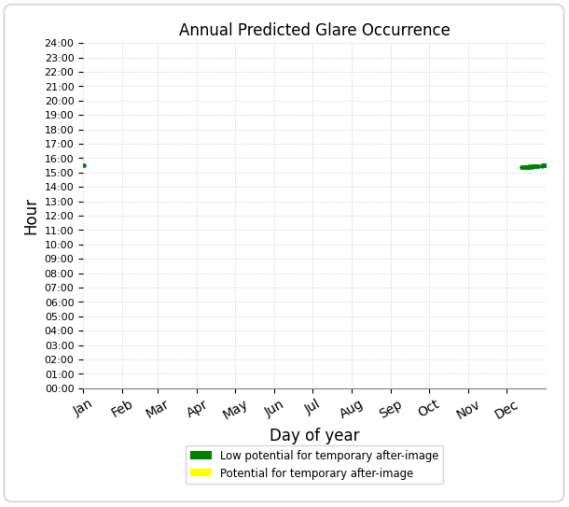


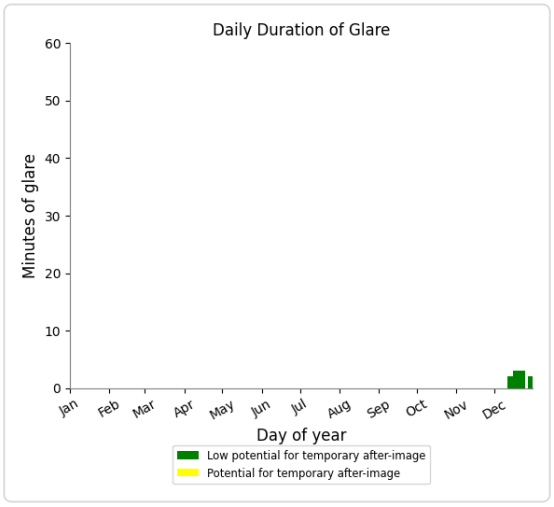


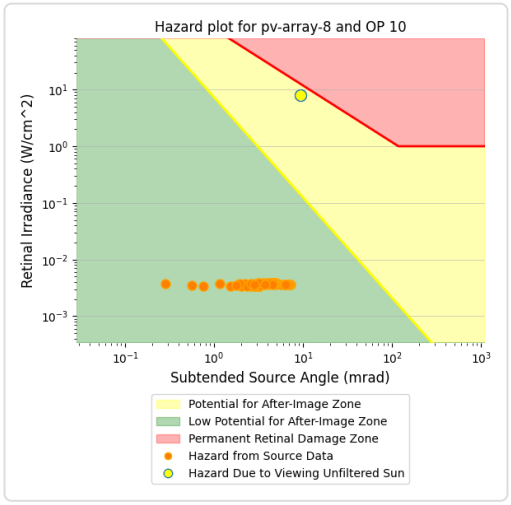
PV array 8 and OP 10

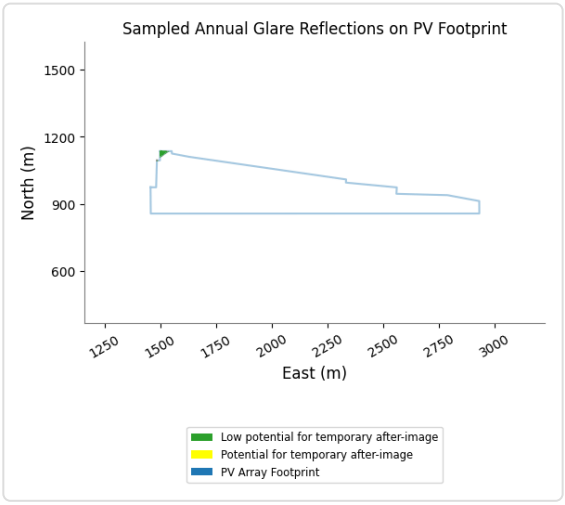
Yellow glare: none

Green glare: 48 min.





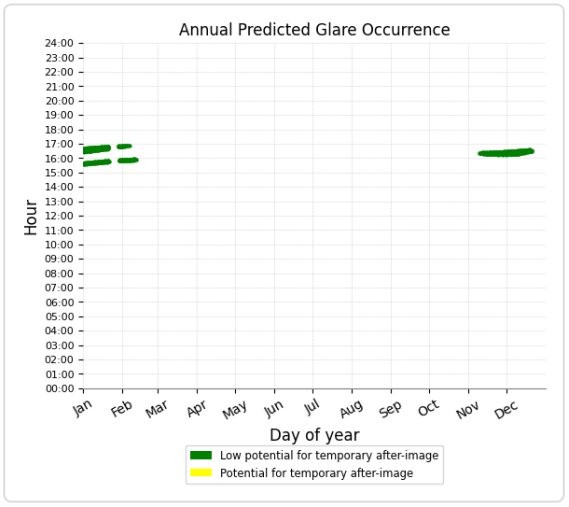


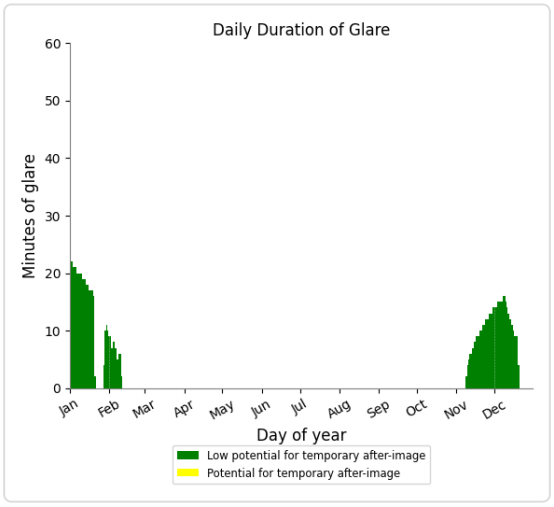


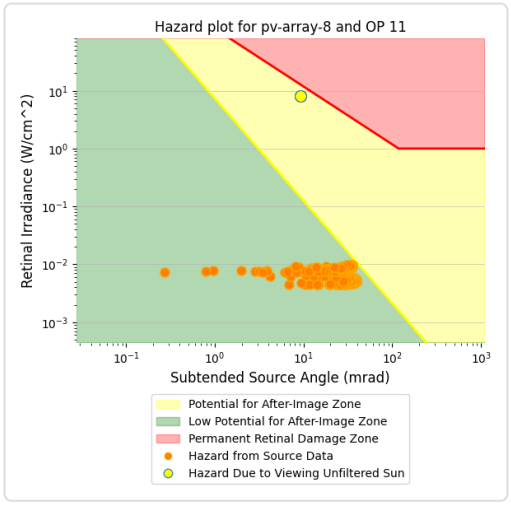
PV array 8 and OP 11

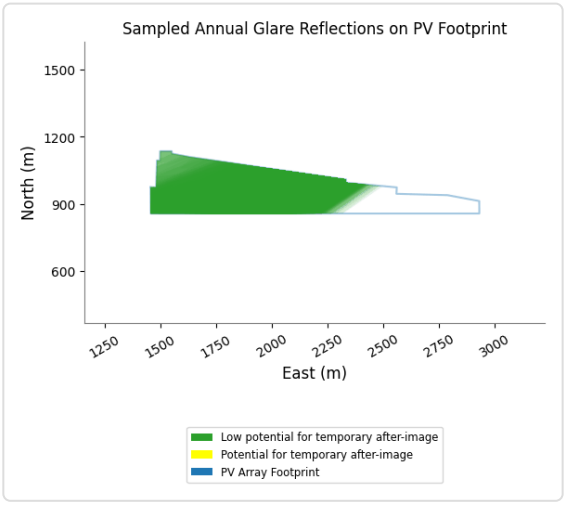
Yellow glare: none

Green glare: 951 min.





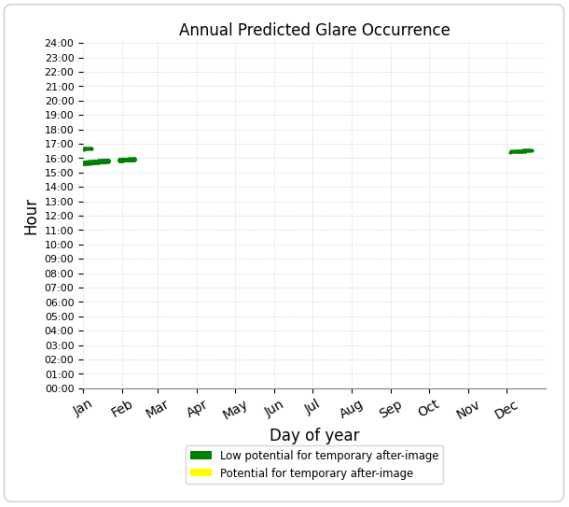


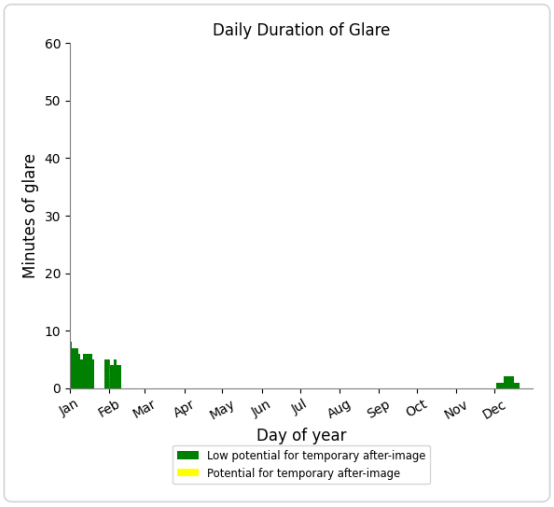


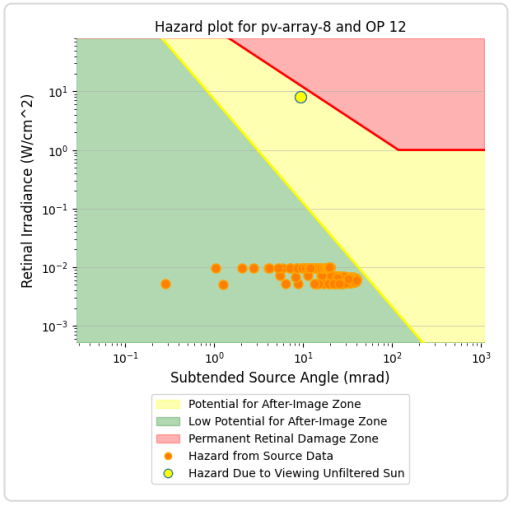
PV array 8 and OP 12

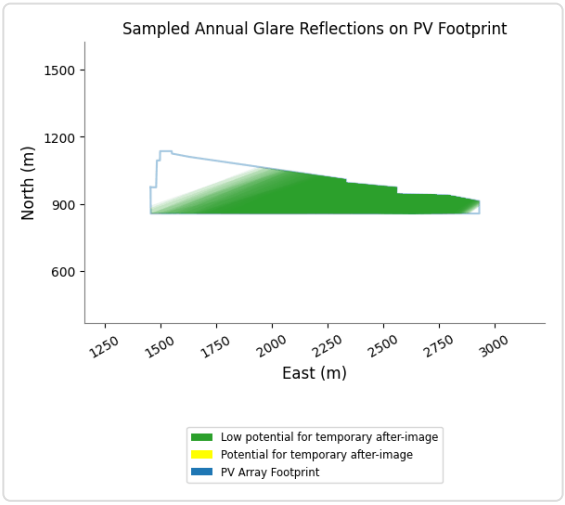
Yellow glare: none

Green glare: 209 min.





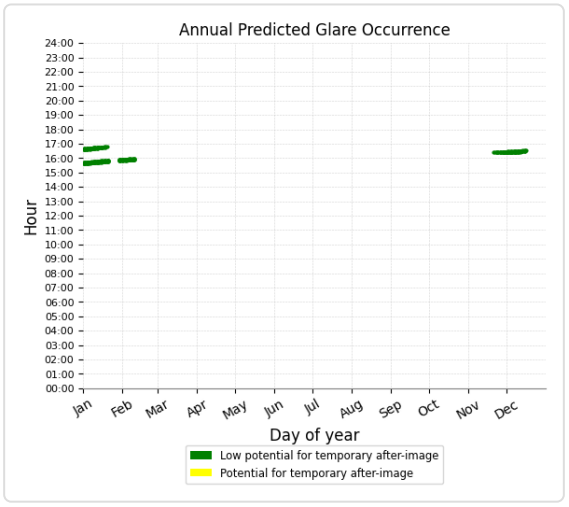


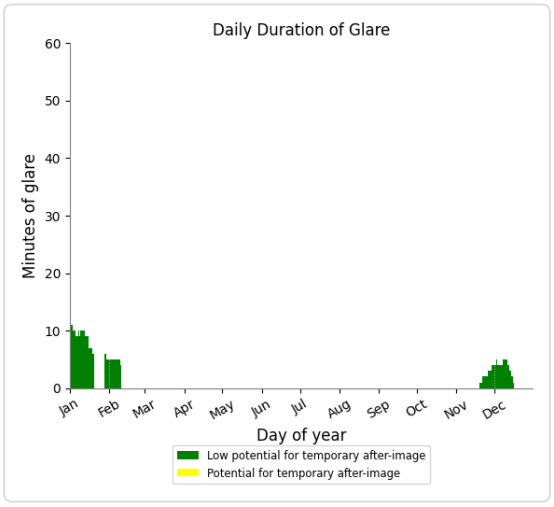


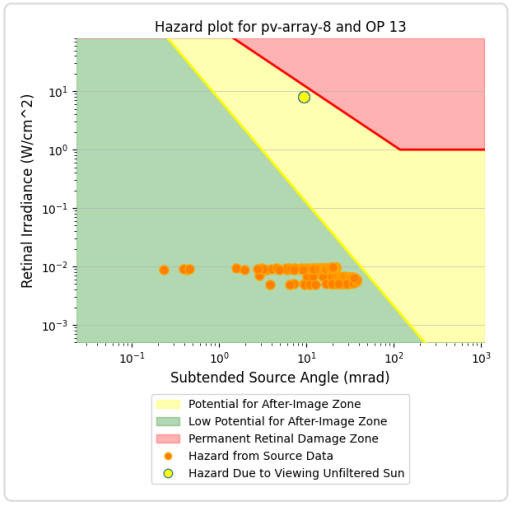
PV array 8 and OP 13

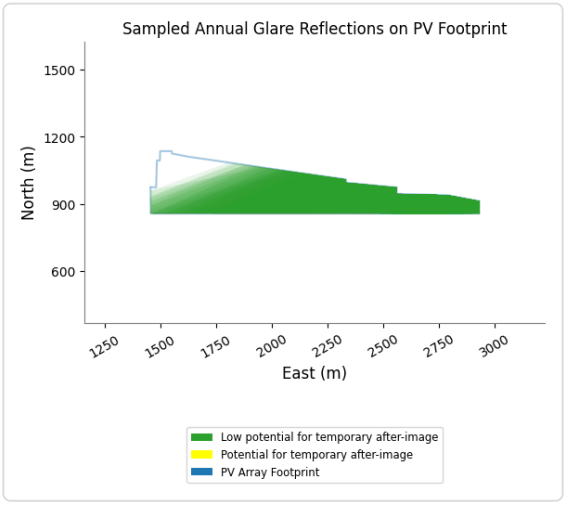
Yellow glare: none

Green glare: 334 min.





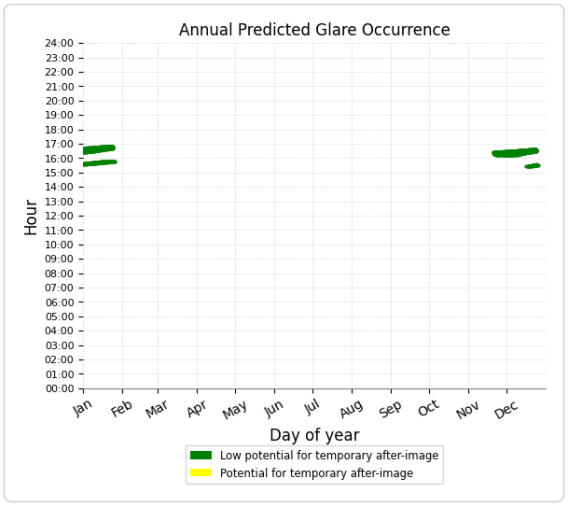


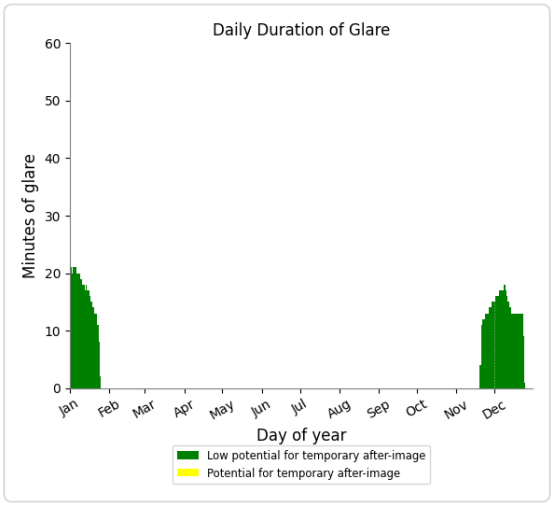


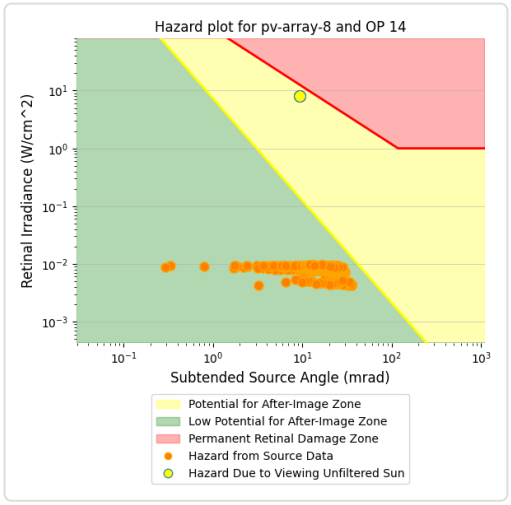
PV array 8 and OP 14

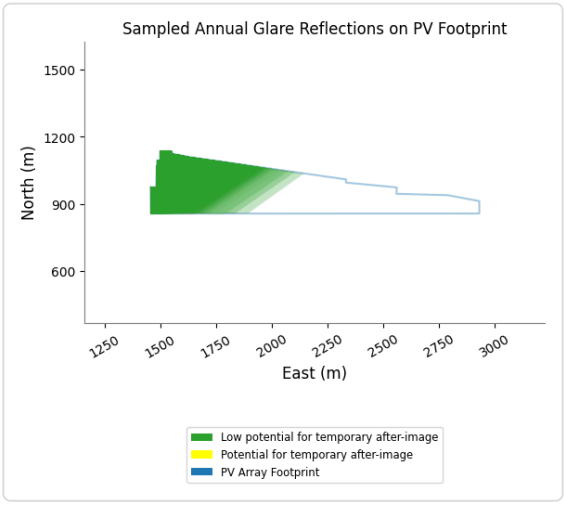
Yellow glare: none

Green glare: 903 min.





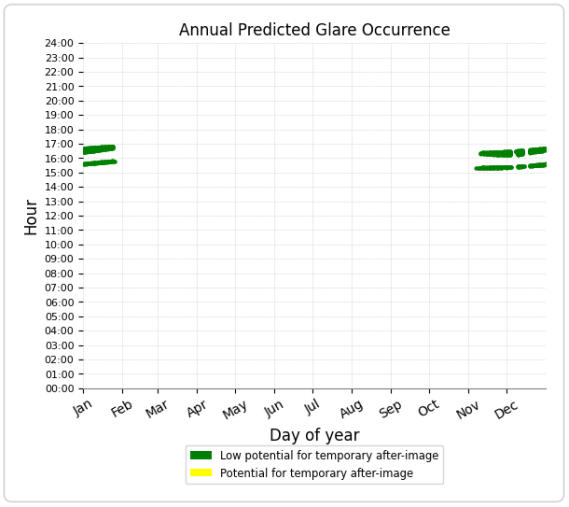


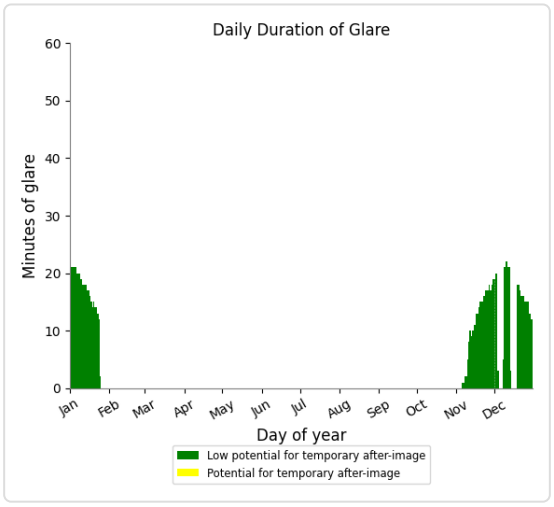


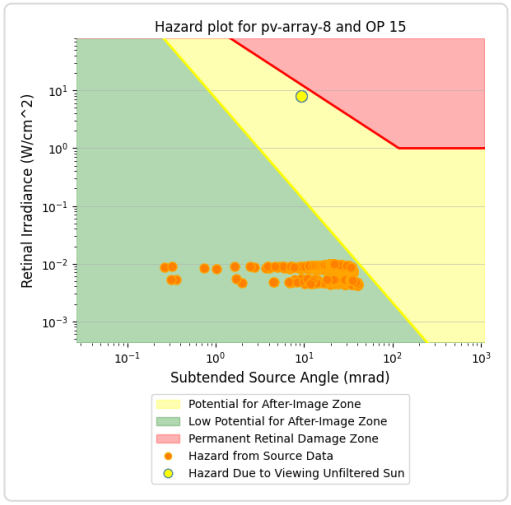
PV array 8 and OP 15

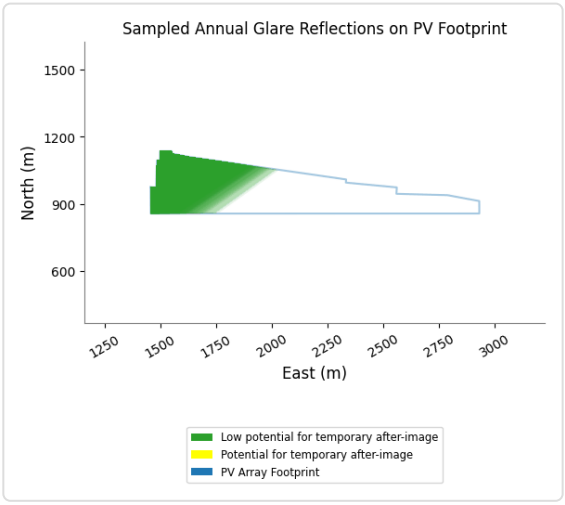
Yellow glare: none

Green glare: 1,095 min.





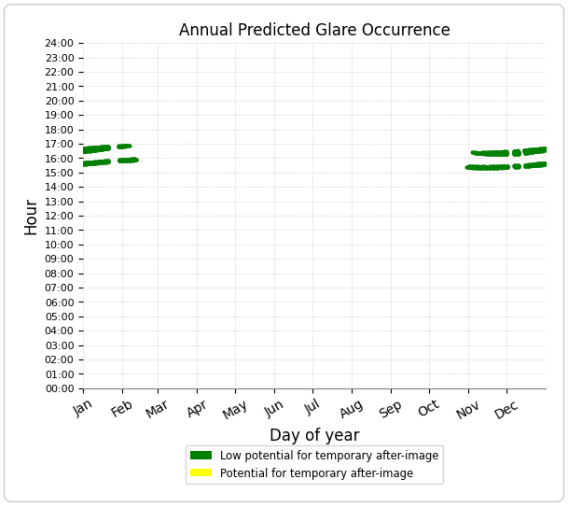


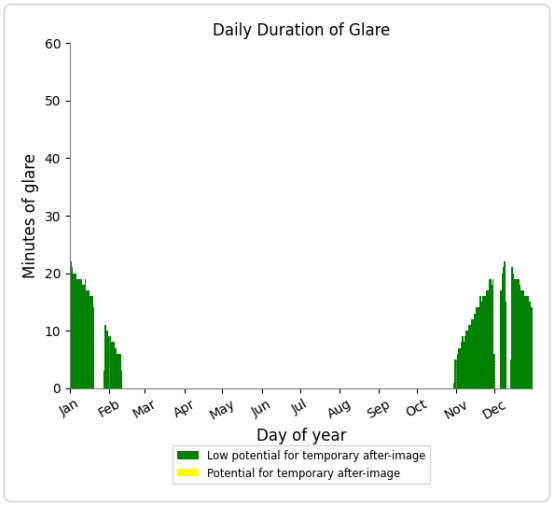


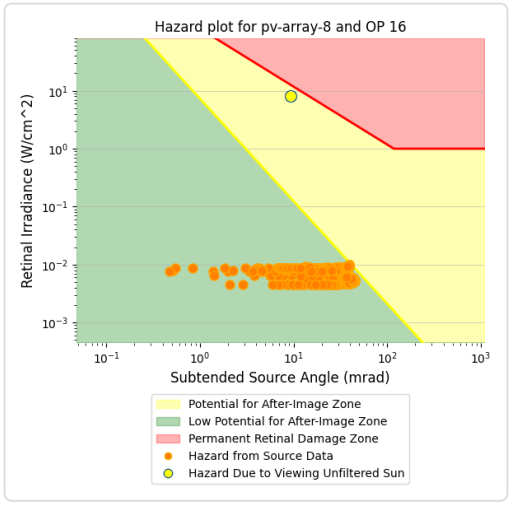
PV array 8 and OP 16

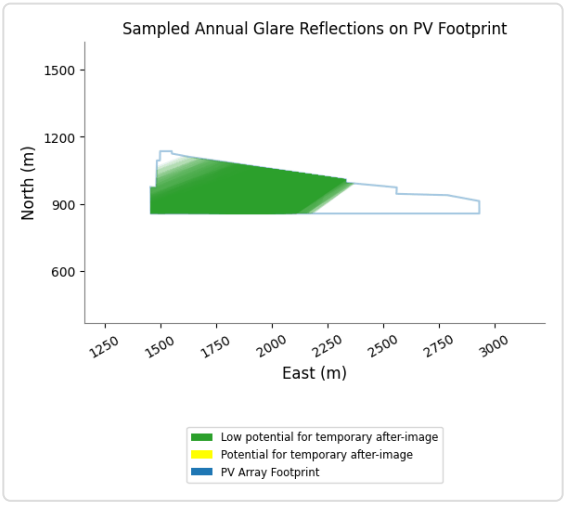
Yellow glare: none

Green glare: 1,265 min.





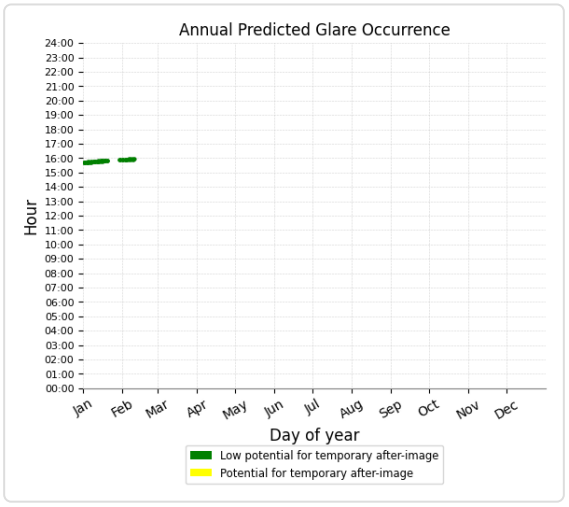


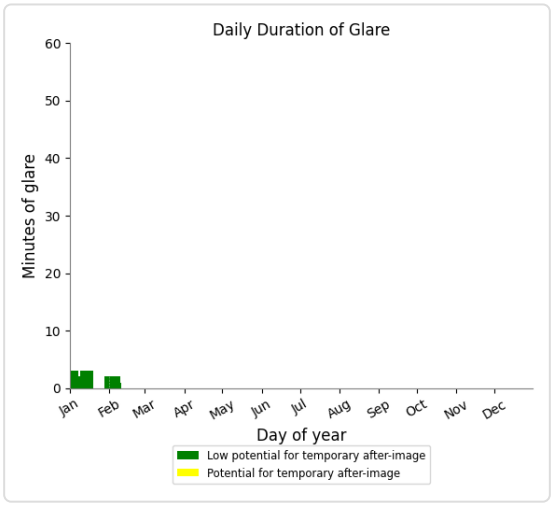


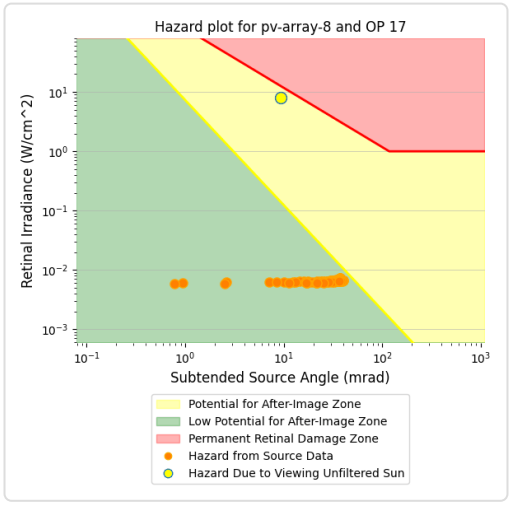
PV array 8 and OP 17

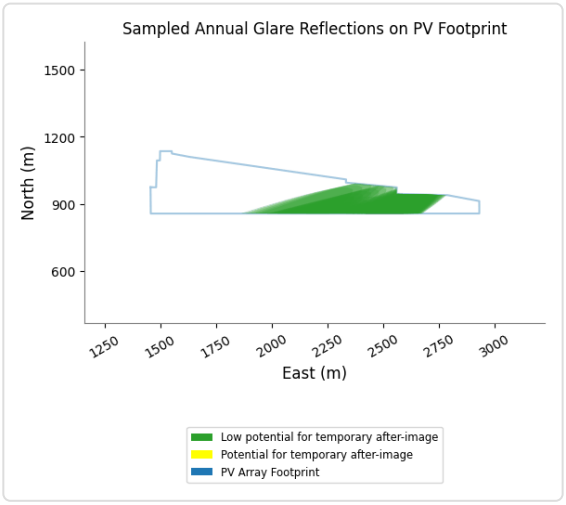
Yellow glare: none

Green glare: 80 min.





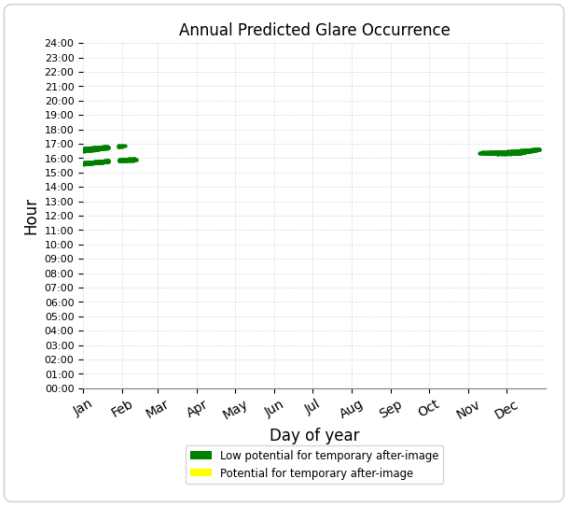


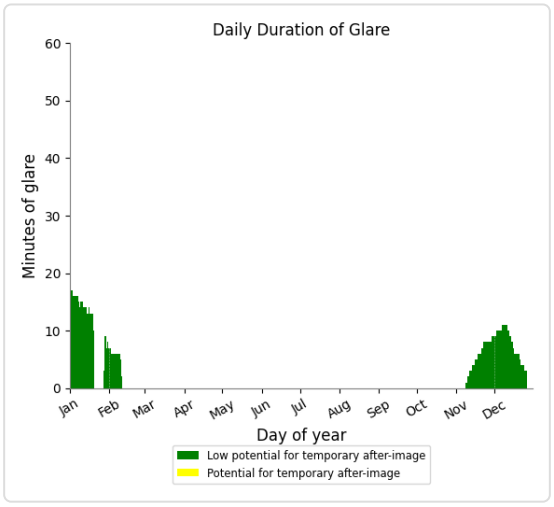


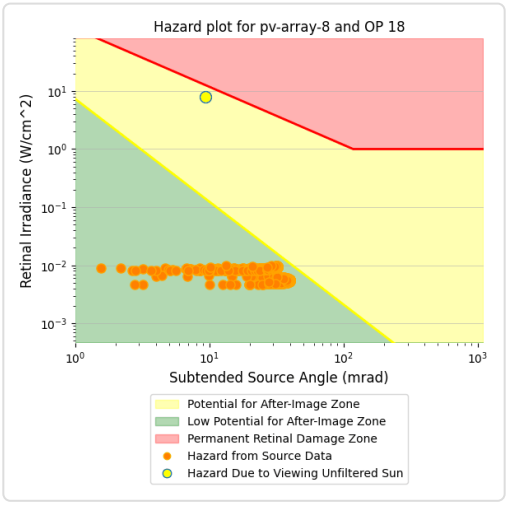
PV array 8 and OP 18

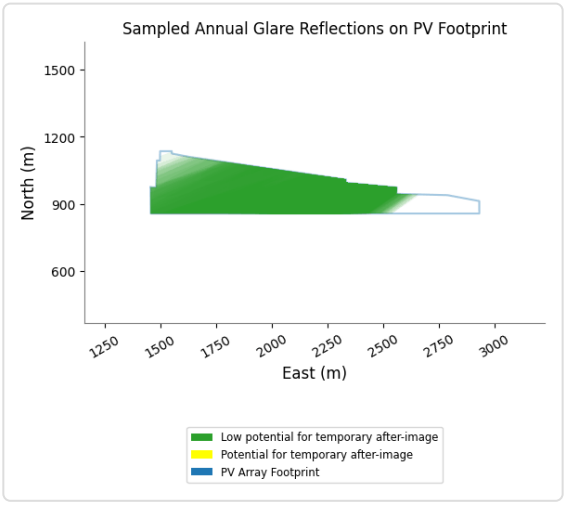
Yellow glare: none

Green glare: 712 min.





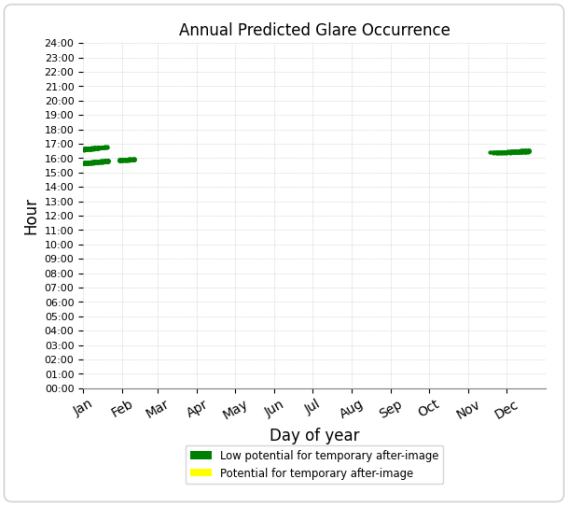


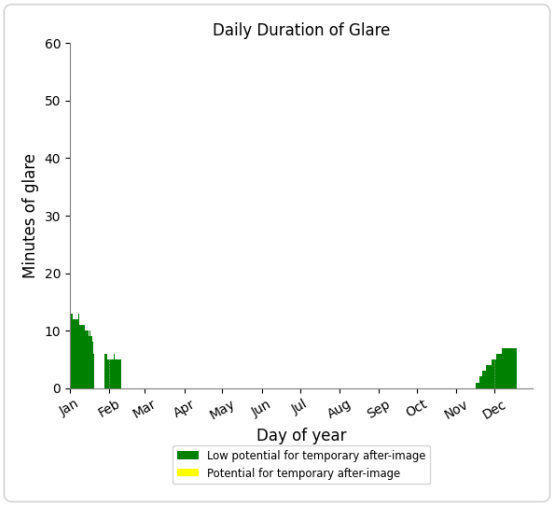


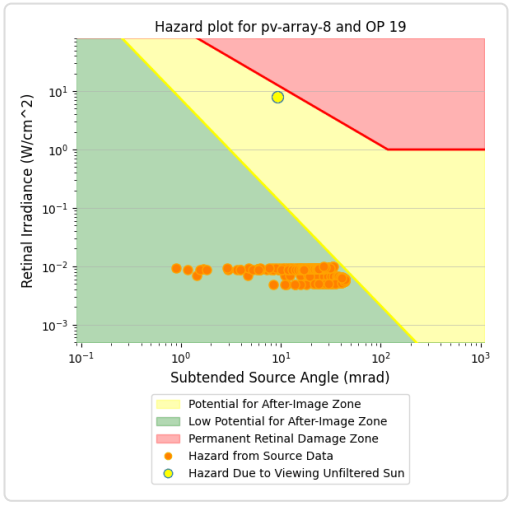
PV array 8 and OP 19

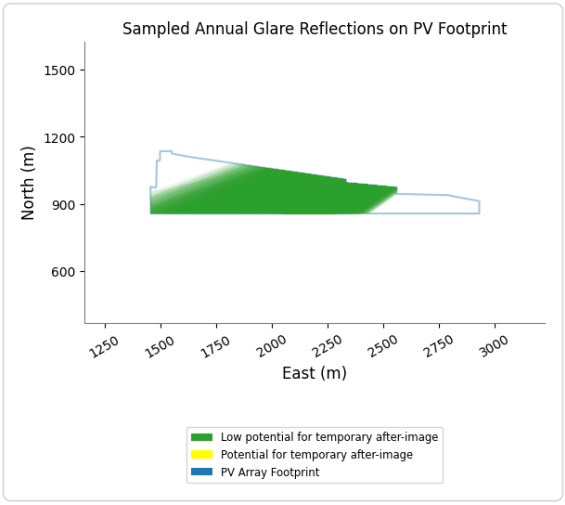
Yellow glare: none

Green glare: 444 min.





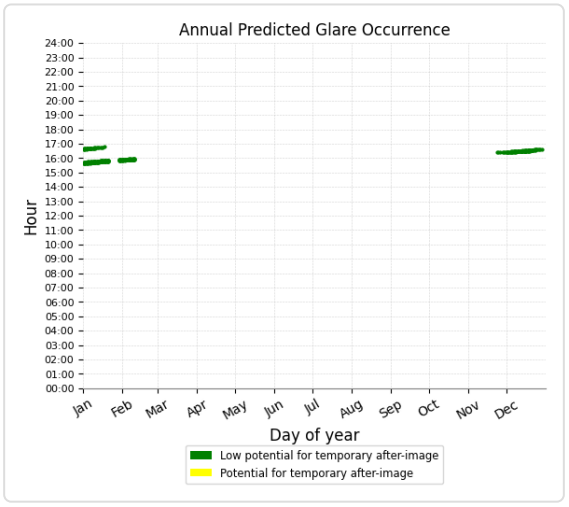


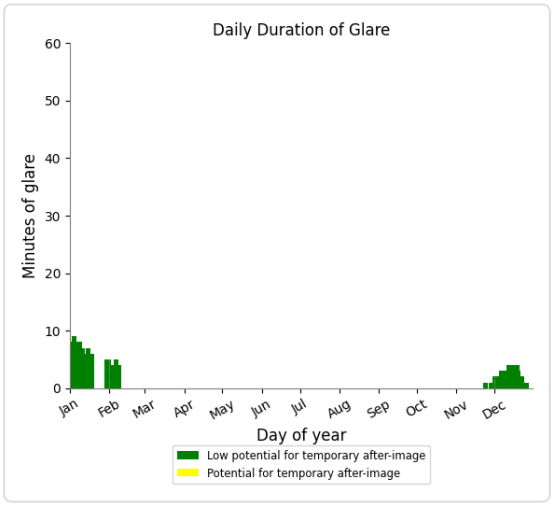


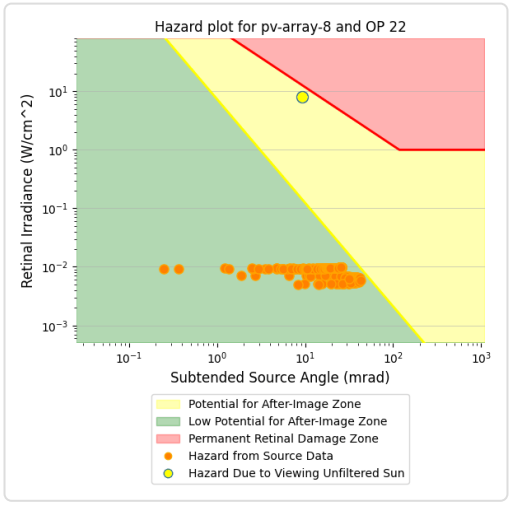
PV array 8 and OP 22

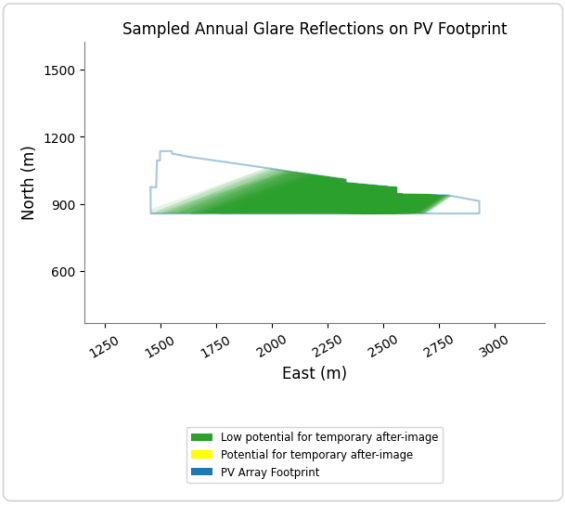
Yellow glare: none

Green glare: 298 min.





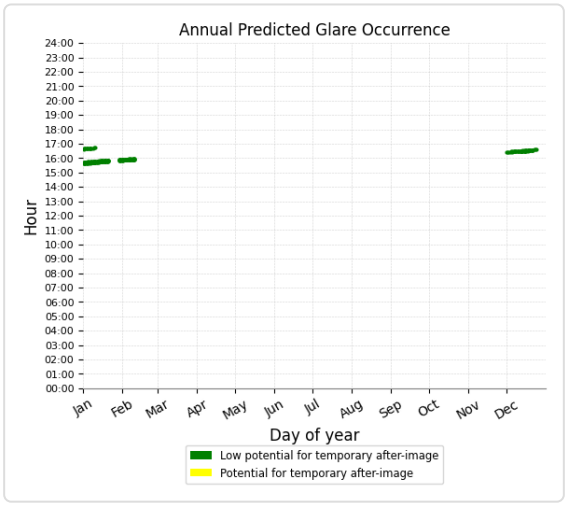


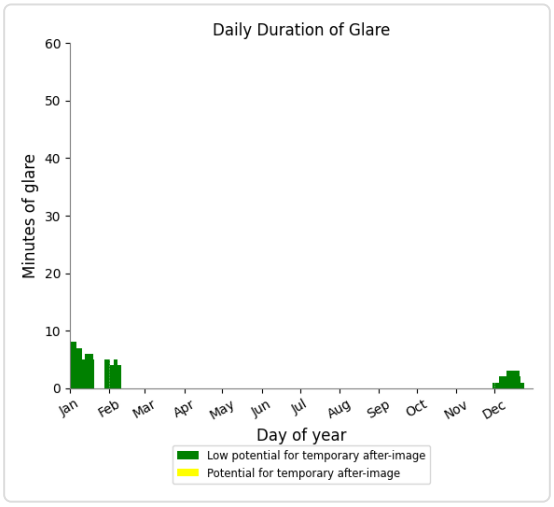


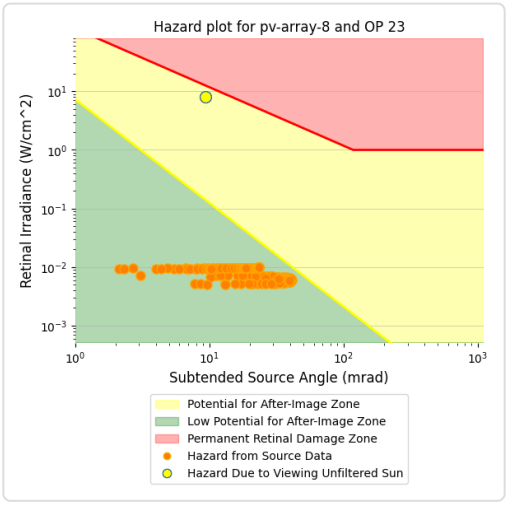
PV array 8 and OP 23

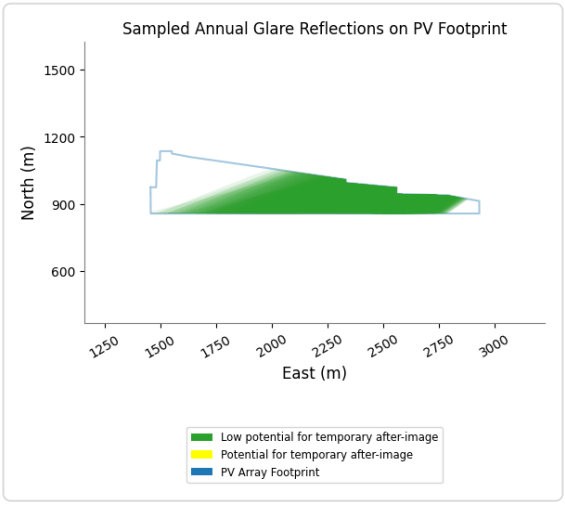
Yellow glare: none

Green glare: 244 min.





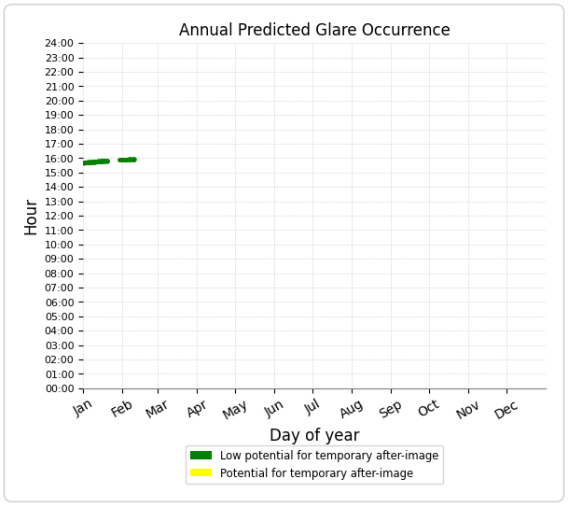


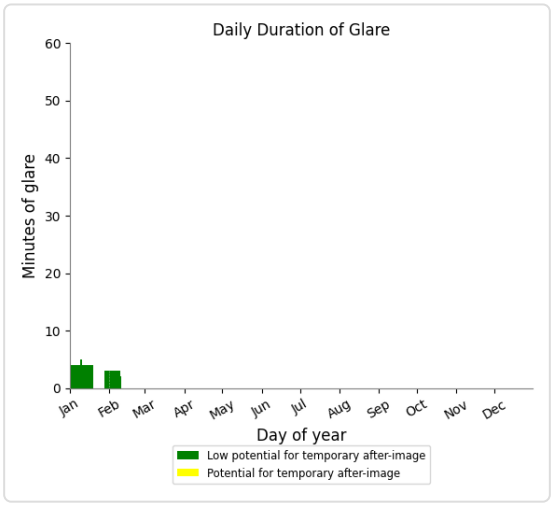


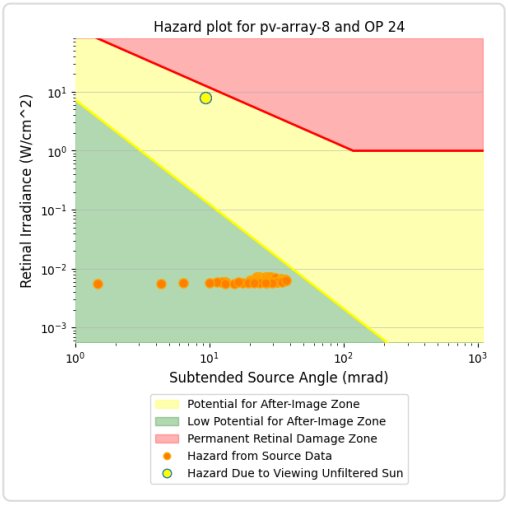
PV array 8 and OP 24

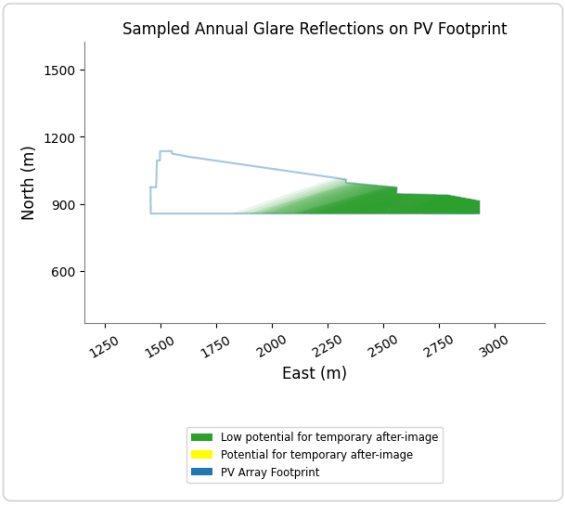
Yellow glare: none

Green glare: 115 min.



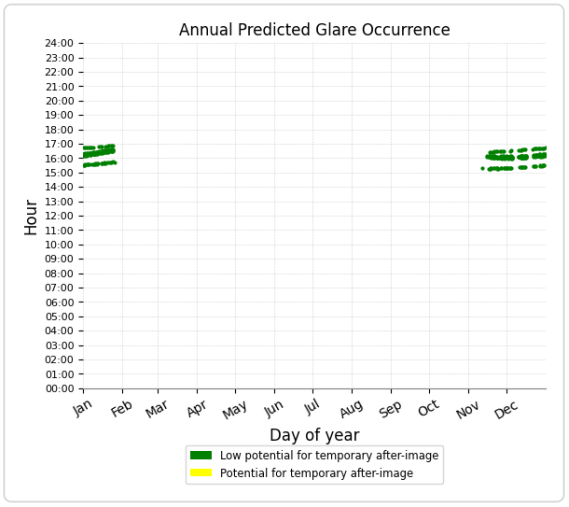


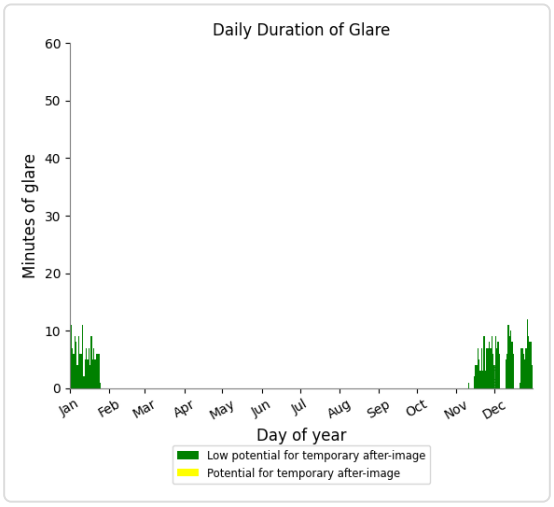


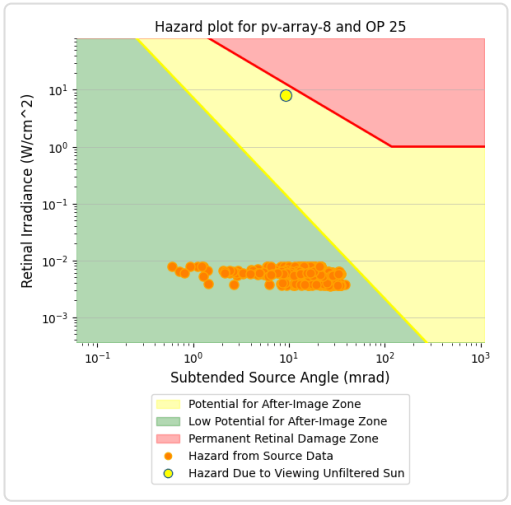


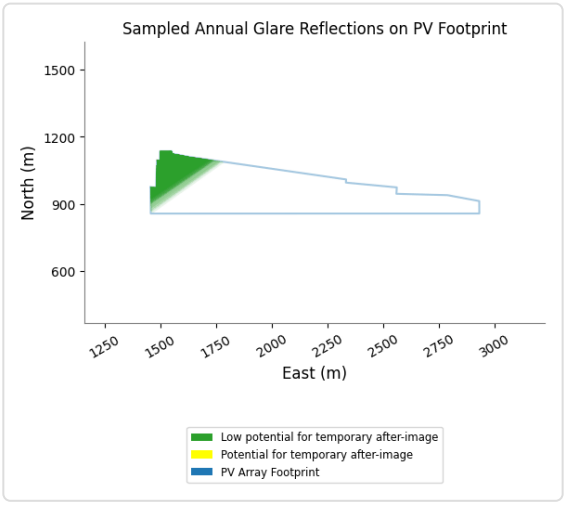
PV array 8 and OP 25

Yellow glare: none
Green glare: 417 min.









PV array 8 and OP 1

No glare found

PV array 8 and OP 2

No glare found

PV array 8 and OP 3

No glare found

PV array 8 and OP 4

No glare found

PV array 8 and OP 5

No glare found

PV array 8 and OP 6

No glare found

PV array 8 and OP 7

No glare found

PV array 8 and OP 8

No glare found

PV array 8 and OP 20

No glare found

PV array 8 and OP 21

No glare found

PV array 8 and OP 26

No glare found

PV array 8 and OP 27

No glare found

PV array 8 and OP 28

No glare found

PV array 8 and OP 29

No glare found

PV array 8 and OP 30

No glare found

PV array 8 and OP 31

No glare found

PV array 8 and OP 32

No glare found

PV array 8 and OP 33

No glare found

PV: PV array 9 no glare found

Receptor results ordered by category of glare

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

PV array 9 and Route: Avenue Road

No glare found

PV array 9 and Route: Main Camp Road

No glare found

PV array 9 and OP 1

No glare found

PV array 9 and OP 2

No glare found

PV array 9 and OP 3

No glare found

PV array 9 and OP 4

No glare found

PV array 9 and OP 5

No glare found

PV array 9 and OP 6

No glare found

PV array 9 and OP 7

No glare found

PV array 9 and OP 8

No glare found

PV array 9 and OP 9

No glare found

PV array 9 and OP 10

No glare found

PV array 9 and OP 11

No glare found

PV array 9 and OP 12

No glare found

PV array 9 and OP 13

No glare found

PV array 9 and OP 14

No glare found

PV array 9 and OP 15

No glare found

PV array 9 and OP 16

No glare found

PV array 9 and OP 17

No glare found

PV array 9 and OP 18

No glare found

PV array 9 and OP 19

No glare found

PV array 9 and OP 20

No glare found

PV array 9 and OP 21

No glare found

PV array 9 and OP 22

No glare found

PV array 9 and OP 23

No glare found

PV array 9 and OP 24

No glare found

PV array 9 and OP 25

No glare found

PV array 9 and OP 26

No glare found

PV array 9 and OP 27

No glare found

PV array 9 and OP 28

No glare found

PV array 9 and OP 29

No glare found

PV array 9 and OP 30

No glare found

PV array 9 and OP 31

No glare found

PV array 9 and OP 32

No glare found

PV array 9 and OP 33

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.
Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.
Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.
The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.
The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.
The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.
The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
Refer to the Help page at **www.forgesolar.com/help/** for assumptions and limitations not listed here.

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

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

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Glint and Glare Assessment Results
Attachment B - Scenario 2

FORGESOLAR GLARE ANALYSIS

Project: **2320 Richmond Valley Solar Farm**
Site configuration: **2320 Richmond Valley 5d Resting Angle 20231211**

Created 11 Dec, 2023
Updated 18 Dec, 2023
Time-step 1 minute
Timezone offset UTC10
Minimum sun altitude 0.0 deg
DNI peaks at 1,000.0 W/m^2
Category 100 MW to 1 GW
Site ID 107576.18000

Ocular transmission coefficient 0.5
Pupil diameter 0.002 m
Eye focal length 0.017 m
Sun subtended angle 9.3 mrad
PV analysis methodology V2

Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	32,564	542.7	27,392	456.5	-
PV array 15	SA tracking	SA tracking	583	9.7	127	2.1	-
PV array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 19	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	287	4.8	0	0.0	-
PV array 23	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	779	13.0	2,145	35.8	-
PV array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 8	SA tracking	SA tracking	4,461	74.3	21	0.3	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	20,028	333.8	29,558	492.6

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	2,540	42.3	127	2.1
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	157	2.6	0	0.0
OP 6	0	0.0	0	0.0
OP 7	75	1.2	0	0.0
OP 8	740	12.3	0	0.0
OP 9	307	5.1	0	0.0
OP 10	42	0.7	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	195	3.2	0	0.0
OP 16	538	9.0	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 20	0	0.0	0	0.0
OP 21	296	4.9	0	0.0
OP 22	288	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	57	0.9	0	0.0
OP 26	2,155	35.9	0	0.0
OP 27	1,953	32.5	0	0.0
OP 28	1,962	32.7	0	0.0
OP 29	468	7.8	0	0.0
OP 30	448	7.5	0	0.0
OP 31	504	8.4	0	0.0
OP 32	596	9.9	0	0.0
OP 33	3,154	52.6	0	0.0

Component Data

PV Arrays

Name: PV array 1
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.101325	153.019581	366.24	2.50	368.74
2	-29.101319	153.022208	373.42	2.50	375.92
3	-29.101675	153.022244	322.35	2.50	324.85
4	-29.101686	153.024706	312.51	2.50	315.01
5	-29.102036	153.024742	303.12	2.50	305.62
6	-29.102033	153.026689	299.33	2.50	301.83
7	-29.102411	153.026725	328.19	2.50	330.69
8	-29.102419	153.028128	322.49	2.50	324.99
9	-29.103497	153.028139	354.56	2.50	357.06
10	-29.103500	153.028281	326.46	2.50	328.96
11	-29.104558	153.028281	314.31	2.50	316.81
12	-29.104567	153.026794	364.57	2.50	367.07
13	-29.104200	153.026775	369.06	2.50	371.56
14	-29.104211	153.025361	350.76	2.50	353.26
15	-29.103472	153.025344	337.49	2.50	339.99
16	-29.103472	153.019586	354.43	2.50	356.93

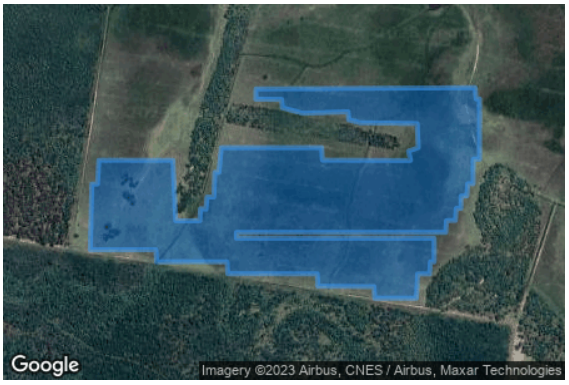
Name: PV array 10
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096789	153.033475	67.12	2.50	69.62
2	-29.096789	153.033625	94.58	2.50	97.08
3	-29.096086	153.033664	83.67	2.50	86.17
4	-29.096069	153.048192	86.35	2.50	88.85
5	-29.096428	153.048178	86.17	2.50	88.67
6	-29.096431	153.047381	77.50	2.50	80.00
7	-29.096778	153.047358	70.21	2.50	72.71
8	-29.096778	153.046492	64.01	2.50	66.51
9	-29.097136	153.046467	57.37	2.50	59.87
10	-29.097136	153.045553	58.92	2.50	61.42
11	-29.097508	153.045553	44.73	2.50	47.23
12	-29.097514	153.044489	51.53	2.50	54.03
13	-29.097786	153.044467	54.99	2.50	57.49
14	-29.097864	153.043553	60.25	2.50	62.75
15	-29.098228	153.043531	57.21	2.50	59.71
16	-29.098236	153.041514	58.17	2.50	60.67
17	-29.098608	153.041486	51.15	2.50	53.65
18	-29.098619	153.033442	60.48	2.50	62.98

Name: PV array 15
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

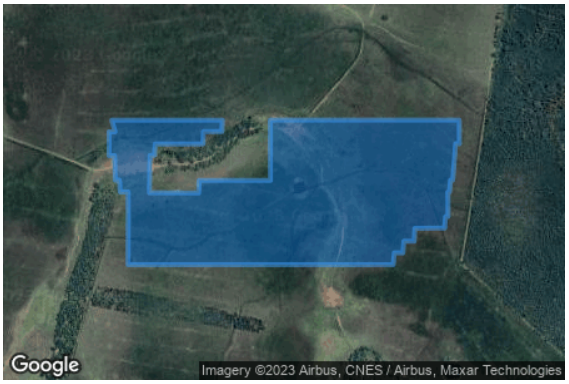
Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102156	153.044086	58.73	2.50	61.23
2	-29.102156	153.047328	63.32	2.50	65.82
3	-29.102194	153.047328	95.21	2.50	97.71
4	-29.102194	153.058594	119.73	2.50	122.23
5	-29.102550	153.058617	84.51	2.50	87.01
6	-29.102550	153.058697	82.32	2.50	84.82
7	-29.103253	153.058700	86.95	2.50	89.45
8	-29.103253	153.058464	98.42	2.50	100.92
9	-29.103636	153.058431	85.79	2.50	88.29
10	-29.103636	153.058125	71.39	2.50	73.89
11	-29.104347	153.058089	63.19	2.50	65.69
12	-29.104347	153.057872	68.64	2.50	71.14
13	-29.105078	153.057872	75.02	2.50	77.52
14	-29.105080	153.057786	73.92	2.50	76.42
15	-29.105431	153.057761	95.27	2.50	97.77
16	-29.105431	153.057622	95.06	2.50	97.56
17	-29.106164	153.057597	96.25	2.50	98.75
18	-29.106167	153.057461	85.20	2.50	87.70
19	-29.106514	153.057433	78.67	2.50	81.17
20	-29.106514	153.057292	76.66	2.50	79.16
21	-29.107410	153.057270	69.71	2.50	72.21
22	-29.107410	153.057190	70.70	2.50	73.20
23	-29.107760	153.057150	76.15	2.50	78.65
24	-29.107770	153.056900	69.23	2.50	71.73
25	-29.108870	153.056840	63.91	2.50	66.41
26	-29.108840	153.054250	69.03	2.50	71.53
27	-29.106690	153.054260	67.10	2.50	69.60
28	-29.106700	153.054510	61.84	2.50	64.34
29	-29.105460	153.054540	51.44	2.50	53.94
30	-29.105460	153.054670	46.48	2.50	48.98
31	-29.103650	153.054660	44.11	2.50	46.61
32	-29.103650	153.053990	50.89	2.50	53.39
33	-29.103260	153.053990	55.01	2.50	57.51
34	-29.103260	153.051930	50.62	2.50	53.12
35	-29.102900	153.051890	64.22	2.50	66.72
36	-29.102900	153.046260	78.81	2.50	81.31
37	-29.102530	153.046260	69.88	2.50	72.38
38	-29.102531	153.044111	81.44	2.50	83.94

Name: PV array 16
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109583	153.053697	35.88	2.50	38.38
2	-29.109580	153.053892	35.82	2.50	38.32
3	-29.108872	153.053936	34.22	2.50	36.72
4	-29.108872	153.056486	35.80	2.50	38.30
5	-29.110681	153.056581	33.60	2.50	36.10
6	-29.110680	153.057408	33.51	2.50	36.01
7	-29.110322	153.057431	33.12	2.50	35.62
8	-29.110333	153.057622	33.65	2.50	36.15
9	-29.109972	153.057656	34.81	2.50	37.31
10	-29.109969	153.057892	35.48	2.50	37.98
11	-29.109233	153.057922	37.27	2.50	39.77
12	-29.109230	153.058064	37.55	2.50	40.05
13	-29.108494	153.058144	37.24	2.50	39.74
14	-29.108494	153.061594	35.21	2.50	37.71
15	-29.108867	153.061622	34.11	2.50	36.61
16	-29.108875	153.064650	30.58	2.50	33.08
17	-29.108597	153.064578	31.08	2.50	33.58
18	-29.108494	153.064914	30.76	2.50	33.26
19	-29.107772	153.064875	32.09	2.50	34.59
20	-29.107750	153.062925	30.39	2.50	32.89
21	-29.107664	153.062525	32.23	2.50	34.73
22	-29.107419	153.062503	32.17	2.50	34.67
23	-29.107467	153.060950	34.16	2.50	36.66
24	-29.107297	153.060244	33.94	2.50	36.44
25	-29.107050	153.060219	33.92	2.50	36.42
26	-29.107044	153.059328	34.04	2.50	36.54
27	-29.106736	153.059336	34.04	2.50	36.54
28	-29.106700	153.066869	31.79	2.50	34.29
29	-29.107036	153.066903	31.47	2.50	33.97
30	-29.107036	153.067019	31.60	2.50	34.10
31	-29.108842	153.067022	33.82	2.50	36.32
32	-29.108842	153.066803	33.30	2.50	35.80
33	-29.109572	153.066800	34.25	2.50	36.75
34	-29.109570	153.066614	33.70	2.50	36.20
35	-29.109936	153.066586	34.18	2.50	36.68
36	-29.109940	153.066383	33.57	2.50	36.07
37	-29.110311	153.066380	34.11	2.50	36.61
38	-29.110310	153.066217	33.64	2.50	36.14
39	-29.110669	153.066192	34.08	2.50	36.58
40	-29.110675	153.065881	33.18	2.50	35.68
41	-29.111028	153.065858	33.66	2.50	36.16
42	-29.111028	153.058667	34.00	2.50	36.50
43	-29.111203	153.058667	34.00	2.50	36.50
44	-29.111203	153.065461	33.51	2.50	36.01
45	-29.111908	153.065461	35.73	2.50	38.23
46	-29.111908	153.065331	35.54	2.50	38.04
47	-29.112269	153.065303	35.50	2.50	38.00
48	-29.112270	153.064894	35.16	2.50	37.66
49	-29.112997	153.064853	35.92	2.50	38.42
50	-29.112997	153.063419	33.64	2.50	36.14
51	-29.112650	153.063394	34.07	2.50	36.57
52	-29.112639	153.061467	31.62	2.50	34.12
53	-29.112269	153.061444	32.22	2.50	34.72
54	-29.112264	153.058369	34.15	2.50	36.65
55	-29.111908	153.058342	34.08	2.50	36.58
56	-29.111908	153.055928	33.83	2.50	36.33
57	-29.111547	153.055900	33.61	2.50	36.11
58	-29.111550	153.053644	40.15	2.50	42.65

Name: PV array 17
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102197	153.059017	39.95	2.50	42.45
2	-29.102194	153.062817	37.76	2.50	40.26
3	-29.102533	153.062803	35.96	2.50	38.46
4	-29.102539	153.062167	38.22	2.50	40.72
5	-29.102906	153.062150	38.04	2.50	40.54
6	-29.102910	153.060506	39.98	2.50	42.48
7	-29.103247	153.060483	38.09	2.50	40.59
8	-29.103253	153.060331	35.83	2.50	38.33
9	-29.104367	153.060311	35.23	2.50	37.73
10	-29.104375	153.062003	35.00	2.50	37.50
11	-29.103994	153.062019	35.26	2.50	37.76
12	-29.104000	153.064469	35.33	2.50	37.83
13	-29.102194	153.064467	41.33	2.50	43.83
14	-29.102194	153.070958	35.53	2.50	38.03
15	-29.102900	153.070964	31.99	2.50	34.49
16	-29.102900	153.070833	34.31	2.50	36.81
17	-29.103986	153.070736	38.09	2.50	40.59
18	-29.103992	153.070656	36.86	2.50	39.36
19	-29.104342	153.070622	35.58	2.50	38.08
20	-29.104344	153.070567	35.32	2.50	37.82
21	-29.105078	153.070575	39.57	2.50	42.07
22	-29.105080	153.070486	39.78	2.50	42.28
23	-29.105425	153.070458	37.46	2.50	39.96
24	-29.105431	153.069433	34.45	2.50	36.95
25	-29.105819	153.069408	43.72	2.50	46.22
26	-29.105819	153.069053	44.69	2.50	47.19
27	-29.106167	153.069022	39.39	2.50	41.89
28	-29.106167	153.068725	33.07	2.50	35.57
29	-29.106519	153.068689	38.03	2.50	40.53
30	-29.106520	153.059578	36.08	2.50	38.58
31	-29.104344	153.059583	36.72	2.50	39.22
32	-29.104347	153.059308	37.07	2.50	39.57
33	-29.103989	153.059278	37.85	2.50	40.35
34	-29.103989	153.059139	38.21	2.50	40.71
35	-29.103253	153.059111	40.68	2.50	43.18
36	-29.103253	153.058922	39.83	2.50	42.33
37	-29.102544	153.058922	38.08	2.50	40.58
38	-29.102544	153.059133	37.66	2.50	40.16

Name: PV array 18
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109586	153.069572	30.93	2.50	33.43
2	-29.109592	153.071361	29.24	2.50	31.74
3	-29.109972	153.071386	29.96	2.50	32.46
4	-29.109978	153.072467	30.00	2.50	32.50
5	-29.110311	153.072500	30.00	2.50	32.50
6	-29.110319	153.073303	31.15	2.50	33.65
7	-29.110672	153.073361	30.64	2.50	33.14
8	-29.112108	153.073353	28.68	2.50	31.18
9	-29.112119	153.072439	30.64	2.50	33.14
10	-29.112300	153.072442	30.87	2.50	33.37
11	-29.112300	153.074256	29.00	2.50	31.50
12	-29.112653	153.074275	29.74	2.50	32.24
13	-29.112661	153.074633	29.77	2.50	32.27
14	-29.113006	153.074628	30.79	2.50	33.29
15	-29.113006	153.076522	29.89	2.50	32.39
16	-29.112797	153.076511	29.59	2.50	32.09
17	-29.112797	153.078297	26.43	2.50	28.93
18	-29.113372	153.078353	27.13	2.50	29.63
19	-29.114981	153.078347	29.88	2.50	32.38
20	-29.114969	153.078094	29.97	2.50	32.47
21	-29.115317	153.078075	30.26	2.50	32.76
22	-29.115320	153.076460	34.27	2.50	36.77
23	-29.115528	153.076456	33.21	2.50	35.71
24	-29.115525	153.070742	31.94	2.50	34.44
25	-29.114467	153.070742	30.74	2.50	33.24
26	-29.114467	153.070797	30.48	2.50	32.98
27	-29.113725	153.070797	30.05	2.50	32.55
28	-29.113725	153.070239	31.57	2.50	34.07
29	-29.113350	153.070219	31.26	2.50	33.76
30	-29.113350	153.070125	31.37	2.50	33.87
31	-29.113000	153.070100	31.06	2.50	33.56
32	-29.113000	153.069572	31.53	2.50	34.03

Name: PV array 19
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.095008	153.049878	30.65	2.50	33.15
2	-29.095006	153.067636	55.88	2.50	58.38
3	-29.095361	153.067678	52.05	2.50	54.55
4	-29.095372	153.070639	54.94	2.50	57.44
5	-29.095722	153.070672	51.58	2.50	54.08
6	-29.095733	153.071469	49.76	2.50	52.26
7	-29.097678	153.071458	43.37	2.50	45.87
8	-29.097692	153.071583	43.76	2.50	46.26
9	-29.099842	153.071569	35.11	2.50	37.61
10	-29.099842	153.071353	33.97	2.50	36.47
11	-29.100928	153.071347	33.60	2.50	36.10
12	-29.100928	153.071208	33.60	2.50	36.10
13	-29.101667	153.071186	35.03	2.50	37.53
14	-29.101658	153.071047	35.08	2.50	37.58
15	-29.102022	153.071031	35.02	2.50	37.52
16	-29.102020	153.047342	32.77	2.50	35.27
17	-29.102114	153.047336	32.68	2.50	35.18
18	-29.102111	153.044069	34.04	2.50	36.54
19	-29.102019	153.044086	34.00	2.50	36.50
20	-29.102014	153.039336	38.65	2.50	41.15
21	-29.099867	153.039331	37.84	2.50	40.34
22	-29.099861	153.040528	36.06	2.50	38.56
23	-29.099494	153.040547	35.30	2.50	37.80
24	-29.099494	153.043892	32.13	2.50	34.63
25	-29.100950	153.043914	33.56	2.50	36.06
26	-29.100958	153.045236	34.06	2.50	36.56
27	-29.100580	153.045280	34.35	2.50	36.85
28	-29.100570	153.046140	33.76	2.50	36.26
29	-29.100220	153.046170	35.46	2.50	37.96
30	-29.100220	153.046440	35.17	2.50	37.67
31	-29.100570	153.046470	33.65	2.50	36.15
32	-29.100570	153.046810	33.54	2.50	36.04
33	-29.100220	153.046830	34.76	2.50	37.26
34	-29.100220	153.048570	34.30	2.50	36.80
35	-29.099860	153.048580	34.26	2.50	36.76
36	-29.099860	153.055040	30.23	2.50	32.73
37	-29.097520	153.055040	29.19	2.50	31.69
38	-29.097508	153.049244	29.61	2.50	32.11
39	-29.096461	153.049253	28.44	2.50	30.94

Name: PV array 2
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103011	153.028981	45.87	2.50	48.37
2	-29.103033	153.031867	42.45	2.50	44.95
3	-29.105117	153.031872	39.58	2.50	42.08
4	-29.105139	153.029231	43.48	2.50	45.98
5	-29.104064	153.029211	43.73	2.50	46.23
6	-29.104044	153.028956	41.58	2.50	44.08

Name: PV array 20
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.097756	153.046586	30.04	2.50	32.54
2	-29.097722	153.046661	30.51	2.50	33.01
3	-29.097722	153.050819	31.18	2.50	33.68
4	-29.098397	153.050817	30.55	2.50	33.05
5	-29.098400	153.050675	29.78	2.50	32.28
6	-29.098433	153.050681	29.76	2.50	32.26
7	-29.098430	153.049186	29.93	2.50	32.43
8	-29.098747	153.049158	31.20	2.50	33.70
9	-29.098744	153.049008	30.31	2.50	32.81
10	-29.098781	153.048992	30.37	2.50	32.87
11	-29.098789	153.045769	30.60	2.50	33.10
12	-29.098081	153.045769	31.10	2.50	33.60
13	-29.098089	153.046567	32.80	2.50	35.30

Name: PV array 21
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.119964	153.067553	34.62	2.50	37.12
2	-29.119931	153.071286	34.59	2.50	37.09
3	-29.120281	153.071325	33.95	2.50	36.45
4	-29.120344	153.073556	31.66	2.50	34.16
5	-29.120458	153.073553	31.39	2.50	33.89
6	-29.120464	153.075878	34.40	2.50	36.90
7	-29.120114	153.075856	33.35	2.50	35.85
8	-29.120114	153.078875	29.83	2.50	32.33
9	-29.120853	153.078881	29.81	2.50	32.31
10	-29.120853	153.078372	29.48	2.50	31.98
11	-29.121589	153.078375	30.72	2.50	33.22
12	-29.121597	153.077969	30.34	2.50	32.84
13	-29.121947	153.077806	30.38	2.50	32.88
14	-29.121947	153.077344	29.07	2.50	31.57
15	-29.122303	153.077336	29.04	2.50	31.54
16	-29.122294	153.075361	32.04	2.50	34.54
17	-29.121594	153.075361	34.77	2.50	37.27
18	-29.121586	153.073336	29.42	2.50	31.92
19	-29.121239	153.073328	29.58	2.50	32.08
20	-29.121294	153.070856	32.46	2.50	34.96
21	-29.121714	153.070683	31.91	2.50	34.41
22	-29.121714	153.070081	32.74	2.50	35.24
23	-29.122067	153.069833	32.73	2.50	35.23
24	-29.122103	153.067342	29.46	2.50	31.96
25	-29.121022	153.067347	32.75	2.50	35.25
26	-29.121022	153.067553	32.13	2.50	34.63

Name: PV array 22
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.114775	153.080247	54.75	2.50	57.25
2	-29.114775	153.080583	53.92	2.50	56.42
3	-29.115122	153.080614	56.19	2.50	58.69
4	-29.115125	153.080961	59.96	2.50	62.46
5	-29.115822	153.080961	55.06	2.50	57.56
6	-29.115822	153.080836	49.55	2.50	52.05
7	-29.116564	153.080797	49.76	2.50	52.26
8	-29.116564	153.080217	46.19	2.50	48.69
9	-29.116928	153.080192	43.83	2.50	46.33
10	-29.116928	153.079286	43.59	2.50	46.09
11	-29.117444	153.079256	45.43	2.50	47.93
12	-29.117444	153.078672	40.64	2.50	43.14
13	-29.117797	153.078642	41.60	2.50	44.10
14	-29.117797	153.078194	41.85	2.50	44.35
15	-29.117103	153.078194	41.39	2.50	43.89
16	-29.117103	153.078386	41.00	2.50	43.50
17	-29.116203	153.078425	51.19	2.50	53.69
18	-29.116208	153.078614	48.69	2.50	51.19
19	-29.115853	153.078644	55.75	2.50	58.25
20	-29.115853	153.079003	60.58	2.50	63.08
21	-29.115475	153.079028	56.40	2.50	58.90
22	-29.115481	153.079553	48.27	2.50	50.77
23	-29.115125	153.079589	49.11	2.50	51.61
24	-29.115128	153.080219	57.49	2.50	59.99

Name: PV array 23
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.115711	153.068300	41.50	2.50	44.00
2	-29.115708	153.077564	41.51	2.50	44.01
3	-29.116775	153.077617	41.78	2.50	44.28
4	-29.116775	153.077372	41.72	2.50	44.22
5	-29.117500	153.077344	41.23	2.50	43.73
6	-29.117500	153.077214	40.70	2.50	43.20
7	-29.117853	153.077178	40.00	2.50	42.50
8	-29.117858	153.077039	40.44	2.50	42.94
9	-29.118383	153.077014	41.50	2.50	44.00
10	-29.118383	153.076644	41.18	2.50	43.68
11	-29.118739	153.076631	40.28	2.50	42.78
12	-29.118739	153.075653	39.12	2.50	41.62
13	-29.119083	153.075622	38.34	2.50	40.84
14	-29.119083	153.072625	39.10	2.50	41.60
15	-29.118736	153.072594	40.48	2.50	42.98
16	-29.118736	153.068858	40.41	2.50	42.91
17	-29.118383	153.068831	42.05	2.50	44.55
18	-29.118383	153.067967	42.40	2.50	44.90
19	-29.116806	153.067970	42.22	2.50	44.72
20	-29.116810	153.068106	42.02	2.50	44.52
21	-29.116053	153.068131	41.65	2.50	44.15
22	-29.116050	153.068272	42.27	2.50	44.77

Name: PV array 3
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103158	153.033744	37.67	2.50	40.17
2	-29.103161	153.034311	44.09	2.50	46.59
3	-29.103506	153.034347	49.91	2.50	52.41
4	-29.103506	153.035361	50.39	2.50	52.89
5	-29.103864	153.035389	48.02	2.50	50.52
6	-29.103864	153.035694	46.05	2.50	48.55
7	-29.104236	153.035733	43.39	2.50	45.89
8	-29.104242	153.036075	41.79	2.50	44.29
9	-29.105681	153.036081	43.07	2.50	45.57
10	-29.105678	153.035300	40.37	2.50	42.87
11	-29.105300	153.035261	38.35	2.50	40.85
12	-29.105300	153.033747	38.15	2.50	40.65

Name: PV array 4
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.100956	153.029697	61.70	2.50	64.20
2	-29.100960	153.033861	52.05	2.50	54.55
3	-29.102319	153.033872	41.22	2.50	43.72
4	-29.102206	153.029711	55.91	2.50	58.41

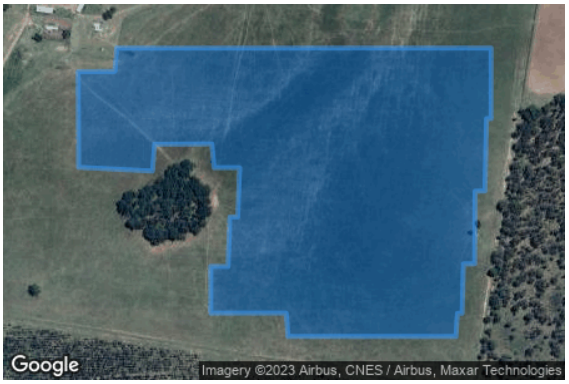
Name: PV array 5
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096244	153.020017	63.68	2.50	66.18
2	-29.096258	153.021258	58.95	2.50	61.45
3	-29.096144	153.021281	58.13	2.50	60.63
4	-29.096142	153.022628	52.57	2.50	55.07
5	-29.096497	153.022653	51.62	2.50	54.12
6	-29.096506	153.025769	53.56	2.50	56.06
7	-29.096856	153.025817	52.73	2.50	55.23
8	-29.096858	153.026111	52.97	2.50	55.47
9	-29.097494	153.026317	52.15	2.50	54.65
10	-29.097789	153.027056	53.44	2.50	55.94
11	-29.098275	153.027050	51.11	2.50	53.61
12	-29.098319	153.019792	51.02	2.50	53.52
13	-29.098064	153.019775	50.99	2.50	53.49
14	-29.097667	153.020156	52.49	2.50	54.99
15	-29.097636	153.020281	52.49	2.50	54.99
16	-29.096947	153.020283	54.63	2.50	57.13
17	-29.096931	153.020225	54.40	2.50	56.90
18	-29.096930	153.020225	52.63	2.50	55.13
19	-29.096930	153.020225	56.59	2.50	59.09

Name: PV array 6
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.098411	153.019708	52.49	2.50	54.99
2	-29.098410	153.022644	54.27	2.50	56.77
3	-29.098453	153.022644	54.17	2.50	56.67
4	-29.098453	153.025644	52.52	2.50	55.02
5	-29.098406	153.025644	52.52	2.50	55.02
6	-29.098410	153.026583	50.97	2.50	53.47
7	-29.098456	153.026583	50.96	2.50	53.46
8	-29.098460	153.028092	50.98	2.50	53.48
9	-29.098806	153.028111	49.50	2.50	52.00
10	-29.098814	153.028110	49.50	2.50	52.00
11	-29.100568	153.028106	43.03	2.50	45.53
12	-29.100578	153.028090	43.04	2.50	45.54
13	-29.100586	153.028083	43.04	2.50	45.54
14	-29.100586	153.024706	46.96	2.50	49.46
15	-29.100236	153.024675	47.84	2.50	50.34
16	-29.100236	153.024317	47.76	2.50	50.26
17	-29.099511	153.024286	51.07	2.50	53.57
18	-29.099503	153.021261	52.06	2.50	54.56
19	-29.099153	153.021256	51.64	2.50	54.14
20	-29.099147	153.019714	53.21	2.50	55.71

Name: PV array 7
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102553	153.036561	61.89	2.50	64.39
2	-29.102550	153.037192	57.69	2.50	60.19
3	-29.102203	153.037222	56.56	2.50	59.06
4	-29.102200	153.043656	57.79	2.50	60.29
5	-29.103258	153.043656	59.96	2.50	62.46
6	-29.103258	153.043578	60.09	2.50	62.59
7	-29.104339	153.043550	61.32	2.50	63.82
8	-29.104344	153.043381	63.82	2.50	66.32
9	-29.105428	153.043375	64.55	2.50	67.05
10	-29.105430	153.043181	65.16	2.50	67.66
11	-29.106169	153.043158	66.84	2.50	69.34
12	-29.106170	153.043078	69.07	2.50	71.57
13	-29.106517	153.043053	71.34	2.50	73.84
14	-29.106517	153.040167	72.19	2.50	74.69
15	-29.106167	153.040136	70.00	2.50	72.50
16	-29.106167	153.038839	69.02	2.50	71.52
17	-29.105467	153.038839	69.78	2.50	72.28
18	-29.105470	153.039136	74.83	2.50	77.33
19	-29.104728	153.039169	75.24	2.50	77.74
20	-29.104728	153.039303	72.87	2.50	75.37
21	-29.103992	153.039336	67.81	2.50	70.31
22	-29.103990	153.038897	63.04	2.50	65.54
23	-29.103636	153.038858	60.65	2.50	63.15
24	-29.103640	153.037875	61.34	2.50	63.84
25	-29.104042	153.037839	65.75	2.50	68.25
26	-29.103986	153.036569	63.73	2.50	66.23

Name: PV array 8
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.092536	153.034539	49.37	2.50	51.87
2	-29.092539	153.034797	46.57	2.50	49.07
3	-29.091453	153.034833	44.03	2.50	46.53
4	-29.091453	153.034972	42.10	2.50	44.60
5	-29.091078	153.034981	41.53	2.50	44.03
6	-29.091078	153.035514	38.85	2.50	41.35
7	-29.091175	153.035525	37.65	2.50	40.15
8	-29.091308	153.036322	36.36	2.50	38.86
9	-29.092222	153.043542	34.71	2.50	37.21
10	-29.092350	153.043533	33.71	2.50	36.21
11	-29.092544	153.045875	34.18	2.50	36.68
12	-29.092803	153.045858	35.67	2.50	38.17
13	-29.092858	153.048208	36.30	2.50	38.80
14	-29.093097	153.049672	36.65	2.50	39.15
15	-29.093600	153.049675	36.09	2.50	38.59
16	-29.093600	153.034550	36.90	2.50	39.40
17	-29.093600	153.034550	38.56	2.50	41.06
18	-29.093600	153.034550	40.09	2.50	42.59
19	-29.093600	153.034550	43.30	2.50	45.80
20	-29.093600	153.034550	46.85	2.50	49.35
21	-29.093600	153.034550	50.12	2.50	52.62
22	-29.093600	153.034550	50.80	2.50	53.30

Name: PV array 9
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 5.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.093742	153.034075	47.59	2.50	50.09
2	-29.093742	153.047911	29.17	2.50	31.67
3	-29.093636	153.047906	29.32	2.50	31.82
4	-29.093640	153.047924	29.32	2.50	31.82
5	-29.094433	153.049239	29.11	2.50	31.61
6	-29.094433	153.049097	29.00	2.50	31.50
7	-29.094797	153.049075	29.37	2.50	31.87
8	-29.094797	153.048883	29.37	2.50	31.87
9	-29.095178	153.048853	29.93	2.50	32.43
10	-29.095178	153.048714	29.93	2.50	32.43
11	-29.095531	153.048686	29.56	2.50	32.06
12	-29.095533	153.048492	29.56	2.50	32.06
13	-29.095894	153.048458	29.04	2.50	31.54
14	-29.095890	153.034044	50.01	2.50	52.51

Route Receptors

Name: Avenue Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.104310	153.008342	42.58	2.40	44.98
2	-29.100917	153.012869	48.57	2.40	50.97
3	-29.099510	153.019414	55.62	2.40	58.02
4	-29.101310	153.026194	44.13	2.40	46.53
5	-29.100501	153.029799	39.40	2.40	41.80
6	-29.100182	153.033833	38.23	2.40	40.63
7	-29.099919	153.034691	38.36	2.40	40.76
8	-29.099619	153.036214	38.31	2.40	40.71
9	-29.099788	153.037373	38.57	2.40	40.97
10	-29.098748	153.043470	32.00	2.40	34.40
11	-29.096820	153.048507	29.92	2.40	32.32
12	-29.092638	153.050803	31.00	2.40	33.40
13	-29.089901	153.051575	41.28	2.40	43.68
14	-29.088341	153.054683	47.04	2.40	49.44
15	-29.087047	153.056636	55.63	2.40	58.03
16	-29.086241	153.058610	59.01	2.40	61.41
17	-29.084685	153.059683	59.79	2.40	62.19

Name: Main Camp Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.130769	153.064031	35.05	2.40	37.45
2	-29.130881	153.067035	33.07	2.40	35.47
3	-29.130450	153.072142	26.52	2.40	28.92
4	-29.129644	153.084169	26.00	2.40	28.40

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (m)	Height (m)
OP 1	1	-29.098436	153.005919	57.00	1.50
OP 2	2	-29.098614	153.005617	58.18	1.50
OP 3	3	-29.098942	153.009817	58.46	1.50
OP 4	4	-29.104081	153.007164	43.97	1.50
OP 5	5	-29.105522	153.007317	42.09	1.50
OP 6	6	-29.104364	153.005417	45.19	1.50
OP 7	7	-29.105019	153.006536	45.10	1.50
OP 8	8	-29.117603	153.001347	38.65	1.50
OP 9	9	-29.083078	153.055558	73.37	1.50
OP 10	10	-29.076967	153.057103	64.26	1.50
OP 11	11	-29.080647	153.066289	49.73	1.50
OP 12	12	-29.083183	153.068906	49.76	1.50
OP 13	13	-29.080508	153.075694	58.03	1.50
OP 14	14	-29.072514	153.073319	58.38	1.50
OP 15	15	-29.079144	153.061150	62.76	1.50
OP 16	16	-29.084792	153.057350	64.28	1.50
OP 17	17	-29.087883	153.058739	46.82	1.50
OP 18	18	-29.081653	153.067194	53.77	1.50
OP 19	19	-29.085114	153.060258	60.28	1.50
OP 20	20	-29.090203	153.055103	40.01	1.50
OP 21	21	-29.106228	153.101144	34.31	1.50
OP 22	22	-29.084800	153.063742	69.22	1.50
OP 23	23	-29.084386	153.065572	66.41	1.50
OP 24	24	-29.084969	153.068331	50.01	1.50
OP 25	25	-29.081494	153.054019	74.64	1.50
OP 26	26	-29.131783	153.064194	34.19	1.50
OP 27	27	-29.132158	153.065619	34.34	1.50
OP 28	28	-29.131331	153.065711	36.18	1.50
OP 29	29	-29.138036	153.099008	43.00	1.50
OP 30	30	-29.134267	153.099875	41.44	1.50
OP 31	31	-29.138078	153.100536	38.27	1.50
OP 32	32	-29.132817	153.101467	42.08	1.50
OP 33	33	-29.134686	153.059939	31.67	1.50

Glare Analysis Results

Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	32,564	542.7	27,392	456.5	-
PV array 15	SA tracking	SA tracking	583	9.7	127	2.1	-
PV array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 19	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	287	4.8	0	0.0	-
PV array 23	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	779	13.0	2,145	35.8	-
PV array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 8	SA tracking	SA tracking	4,461	74.3	21	0.3	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Avenue Road	20,028	333.8	29,558	492.6
Main Camp Road	2,540	42.3	127	2.1

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	157	2.6	0	0.0
OP 6	0	0.0	0	0.0
OP 7	75	1.2	0	0.0
OP 8	740	12.3	0	0.0
OP 9	307	5.1	0	0.0
OP 10	42	0.7	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	195	3.2	0	0.0
OP 16	538	9.0	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 20	0	0.0	0	0.0
OP 21	296	4.9	0	0.0
OP 22	288	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	57	0.9	0	0.0
OP 26	2,155	35.9	0	0.0
OP 27	1,953	32.5	0	0.0
OP 28	1,962	32.7	0	0.0
OP 29	468	7.8	0	0.0
OP 30	448	7.5	0	0.0
OP 31	504	8.4	0	0.0
OP 32	596	9.9	0	0.0
OP 33	3,154	52.6	0	0.0

PV: PV array 1 no glare found

Receptor results ordered by category of glare

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

PV array 1 and Route: Avenue Road

No glare found

PV array 1 and Route: Main Camp Road

No glare found

PV array 1 and OP 1

No glare found

PV array 1 and OP 2

No glare found

PV array 1 and OP 3

No glare found

PV array 1 and OP 4

No glare found

PV array 1 and OP 5

No glare found

PV array 1 and OP 6

No glare found

PV array 1 and OP 7

No glare found

PV array 1 and OP 8

No glare found

PV array 1 and OP 9

No glare found

PV array 1 and OP 10

No glare found

PV array 1 and OP 11

No glare found

PV array 1 and OP 12

No glare found

PV array 1 and OP 13

No glare found

PV array 1 and OP 14

No glare found

PV array 1 and OP 15

No glare found

PV array 1 and OP 16

No glare found

PV array 1 and OP 17

No glare found

PV array 1 and OP 18

No glare found

PV array 1 and OP 19

No glare found

PV array 1 and OP 20

No glare found

PV array 1 and OP 21

No glare found

PV array 1 and OP 22

No glare found

PV array 1 and OP 23

No glare found

PV array 1 and OP 24

No glare found

PV array 1 and OP 25

No glare found

PV array 1 and OP 26

No glare found

PV array 1 and OP 27

No glare found

PV array 1 and OP 28

No glare found

PV array 1 and OP 29

No glare found

PV array 1 and OP 30

No glare found

PV array 1 and OP 31

No glare found

PV array 1 and OP 32

No glare found

PV array 1 and OP 33

No glare found

PV: PV array 10 potential temporary after-image

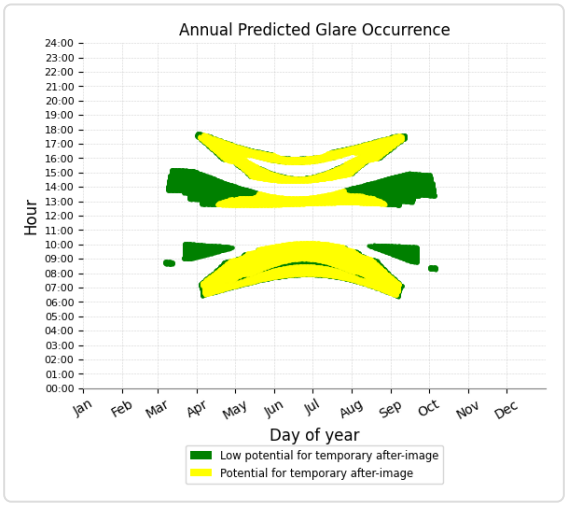
Receptor results ordered by category of glare

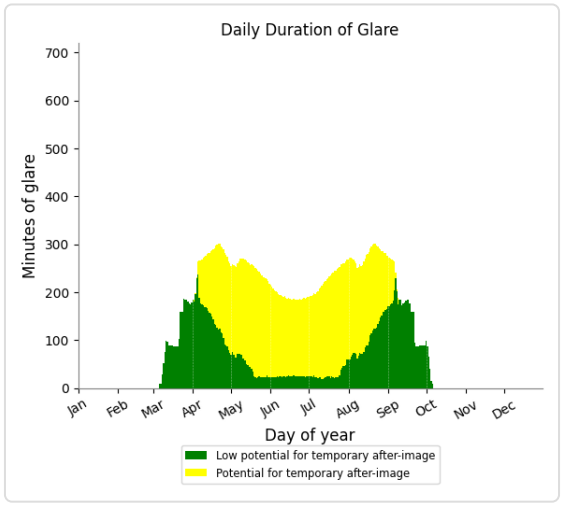
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	18,386	306.4	27,392	456.5
Main Camp Road	2,253	37.5	0	0.0
OP 5	157	2.6	0	0.0
OP 7	75	1.2	0	0.0
OP 8	740	12.3	0	0.0
OP 26	2,155	35.9	0	0.0
OP 27	1,953	32.5	0	0.0
OP 28	1,962	32.7	0	0.0
OP 29	468	7.8	0	0.0
OP 30	448	7.5	0	0.0
OP 31	504	8.4	0	0.0
OP 32	309	5.2	0	0.0
OP 33	3,154	52.6	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0

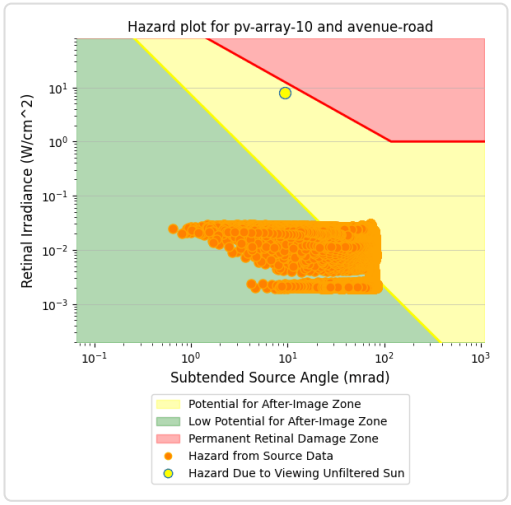
PV array 10 and Route: Avenue Road

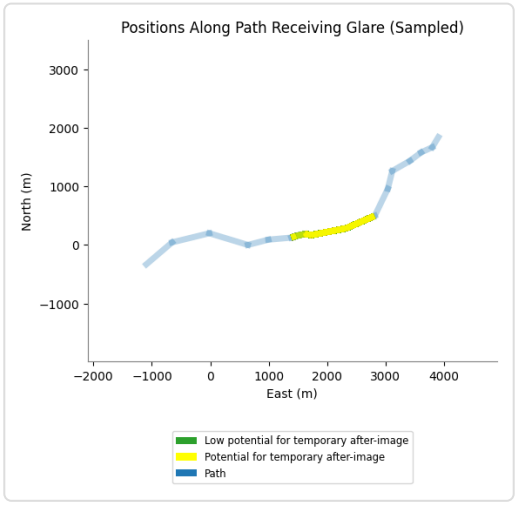
Yellow glare: 27,392 min.

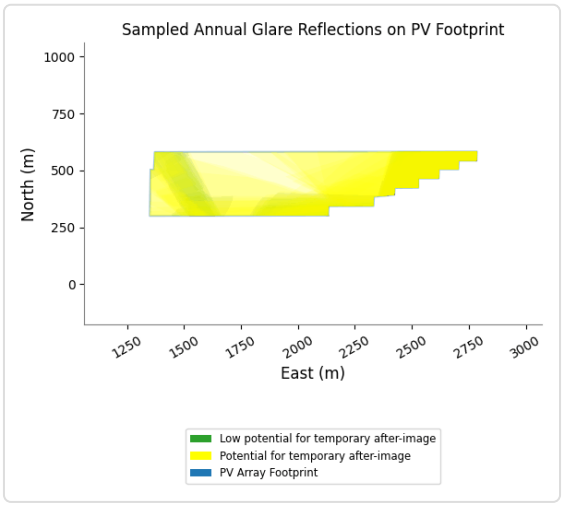
Green glare: 18,386 min.







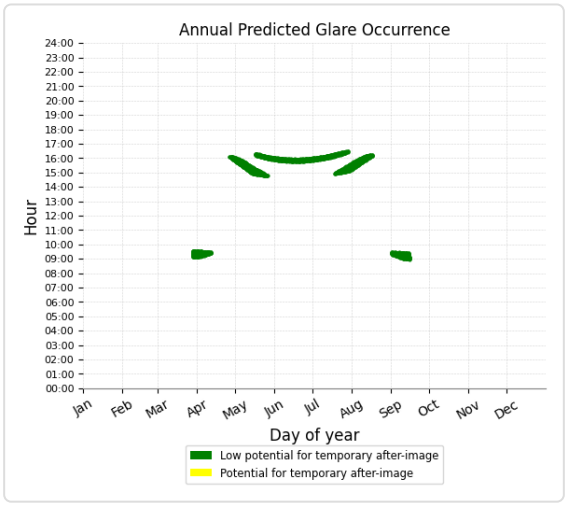


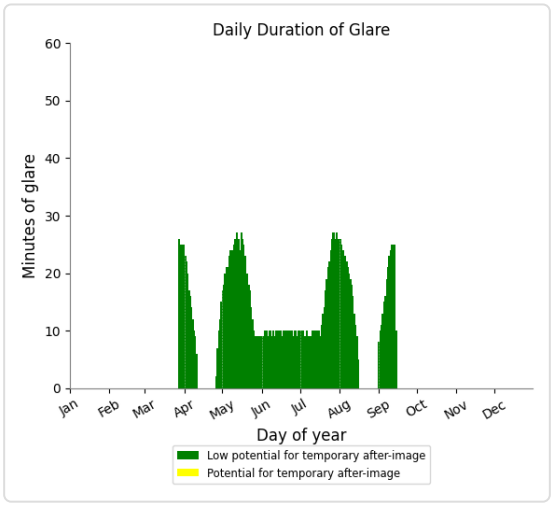


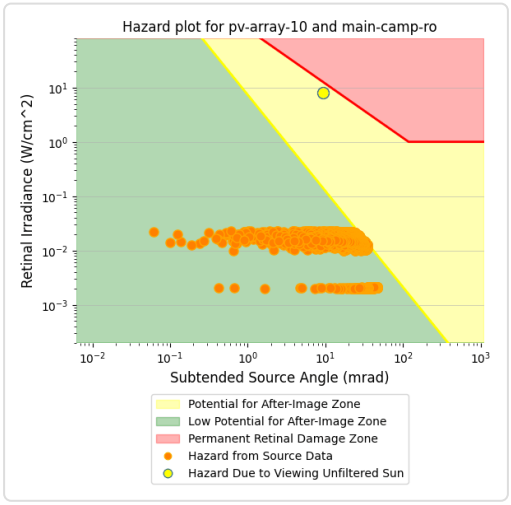
PV array 10 and Route: Main Camp Road

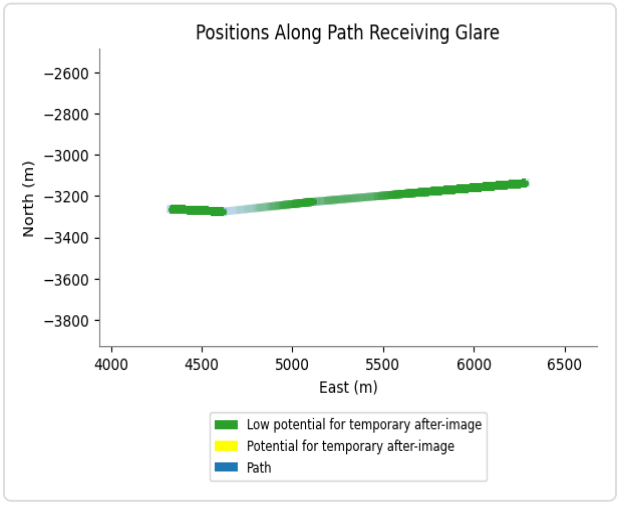
Yellow glare: none

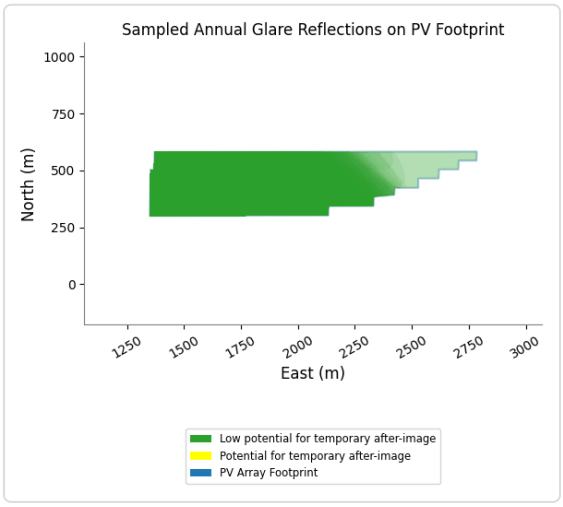
Green glare: 2,253 min.







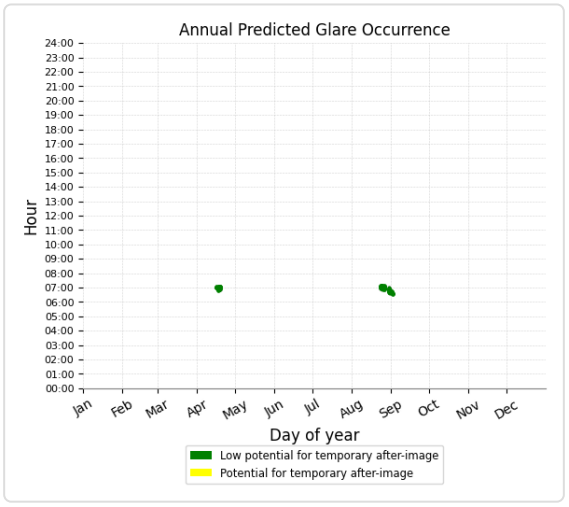


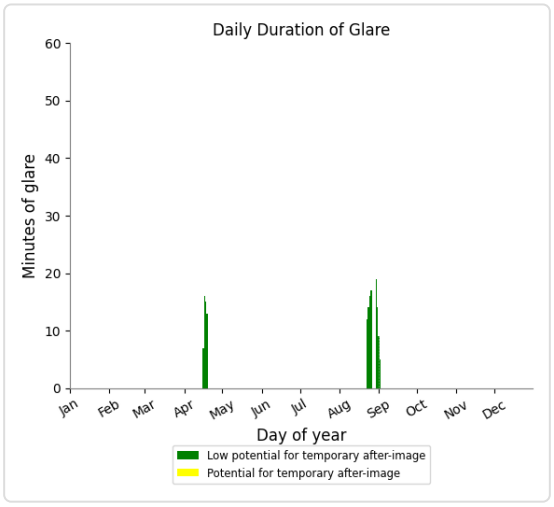


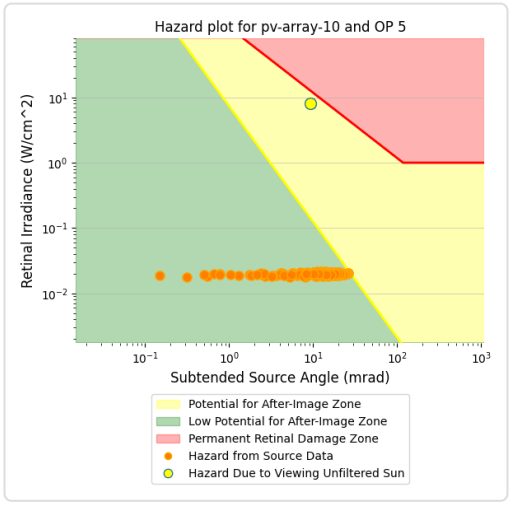
PV array 10 and OP 5

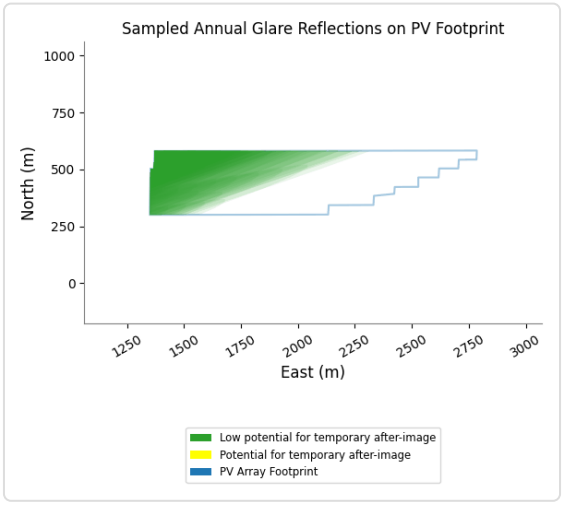
Yellow glare: none

Green glare: 157 min.





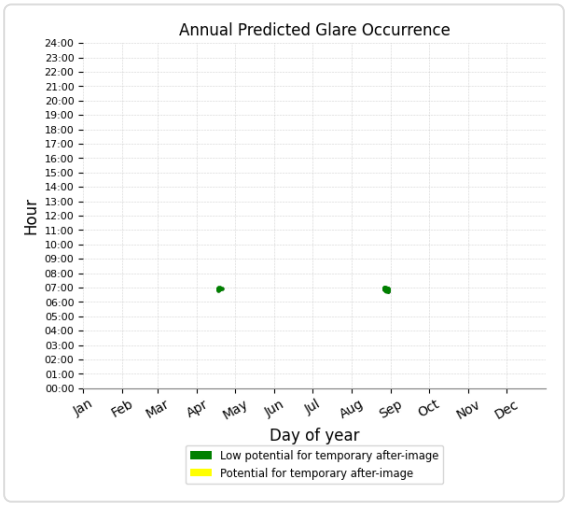


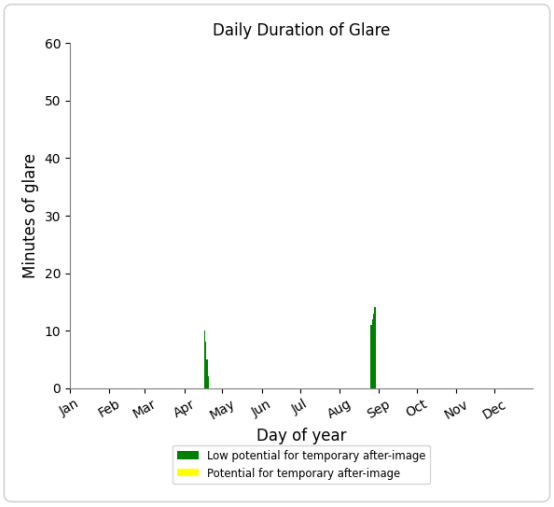


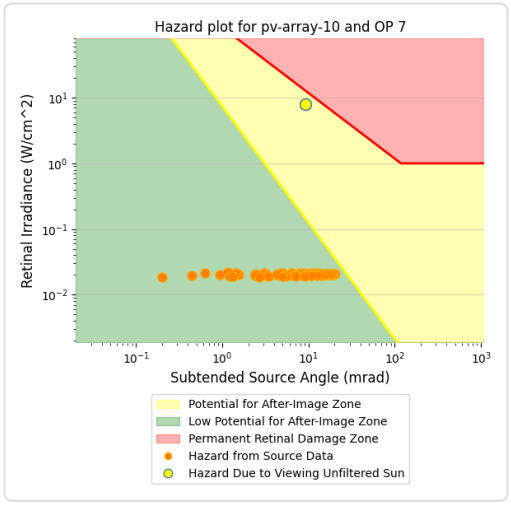
PV array 10 and OP 7

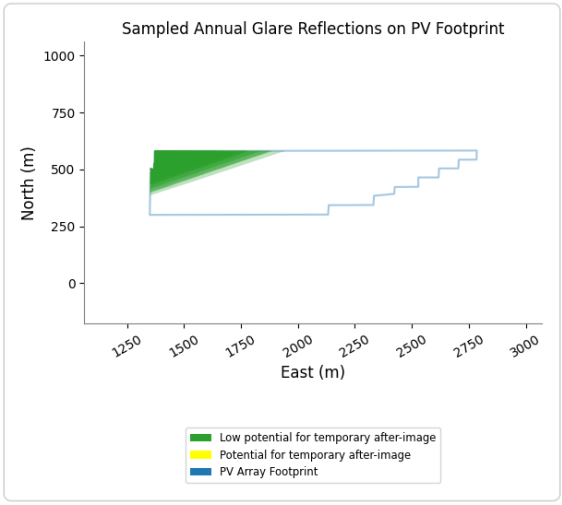
Yellow glare: none

Green glare: 75 min.





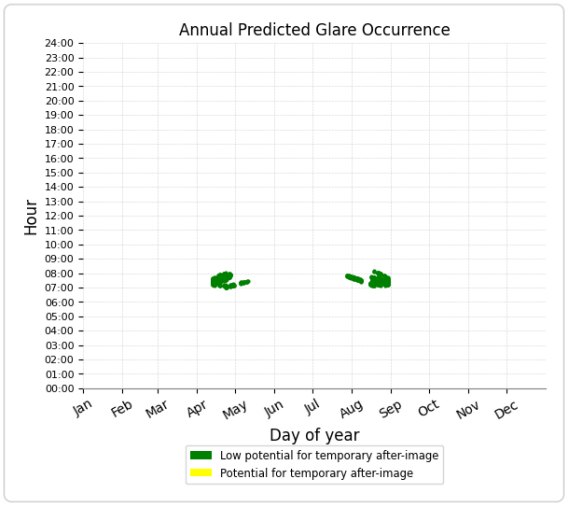


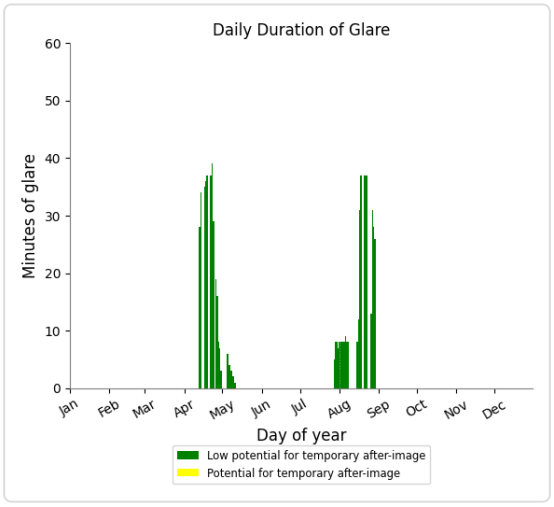


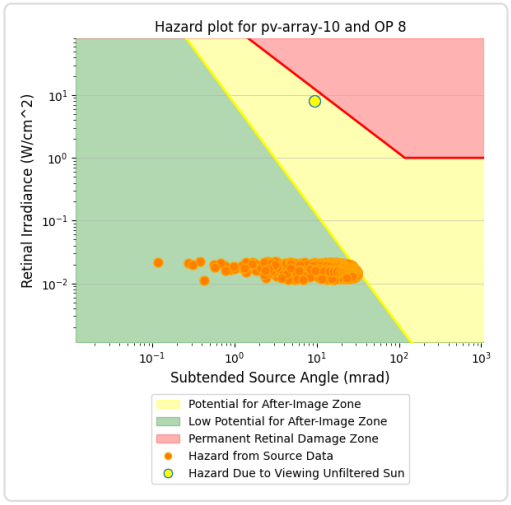
PV array 10 and OP 8

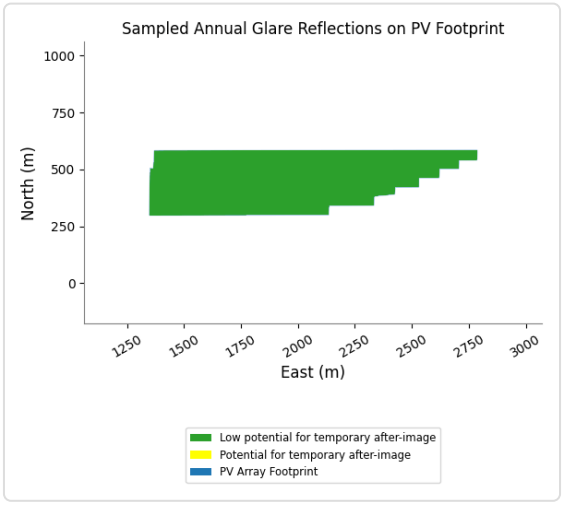
Yellow glare: none

Green glare: 740 min.





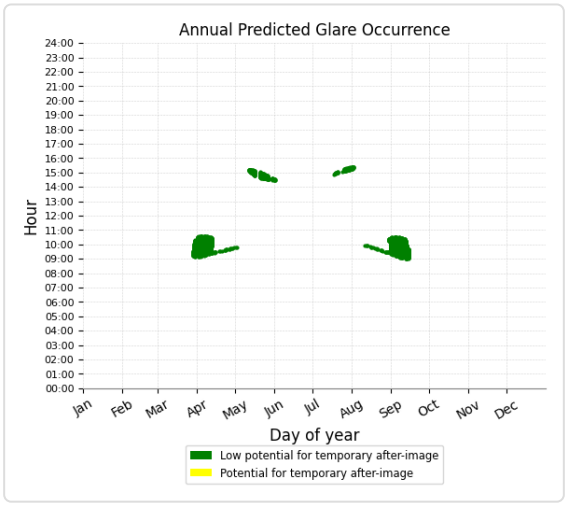


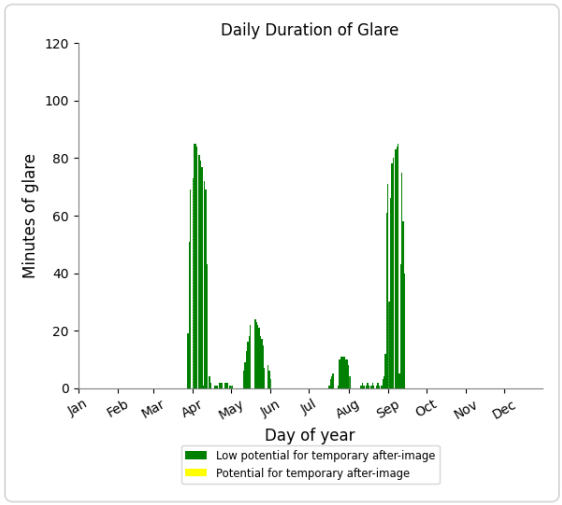


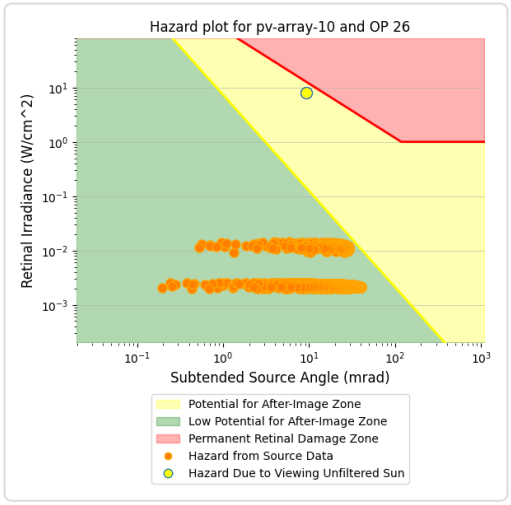
PV array 10 and OP 26

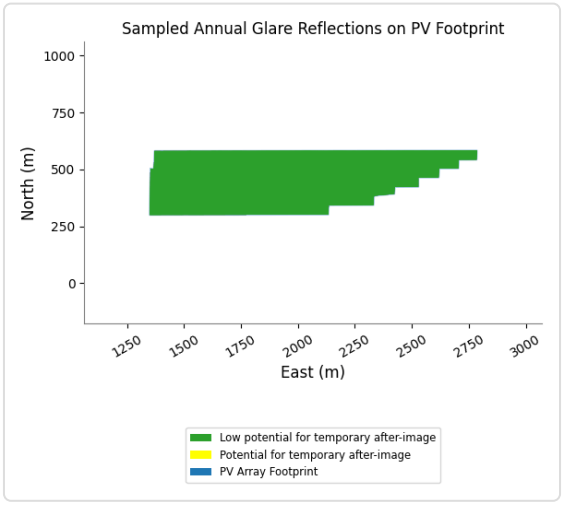
Yellow glare: none

Green glare: 2,155 min.





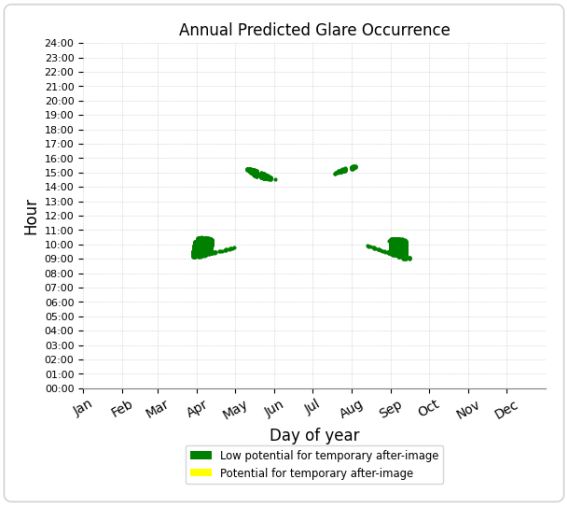


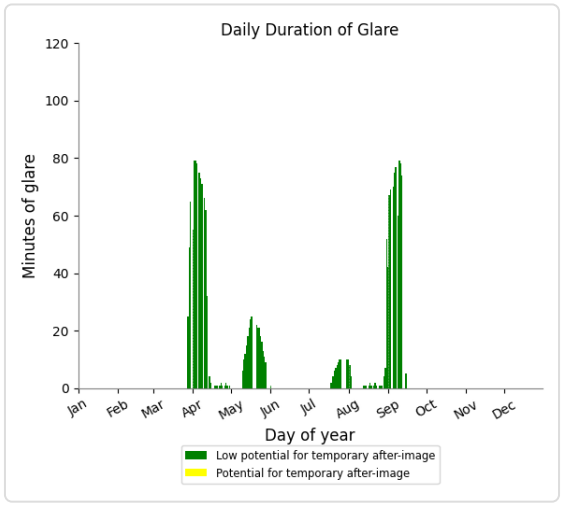


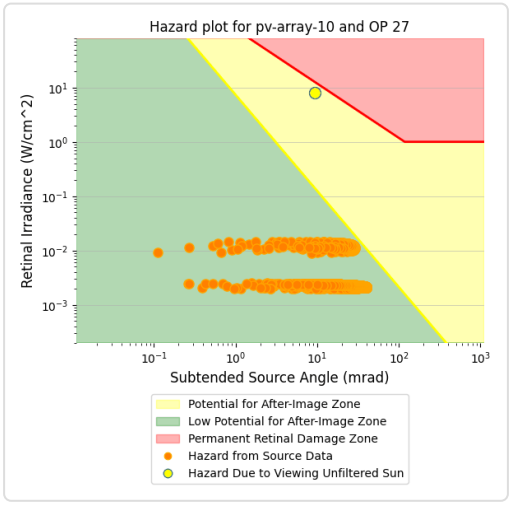
PV array 10 and OP 27

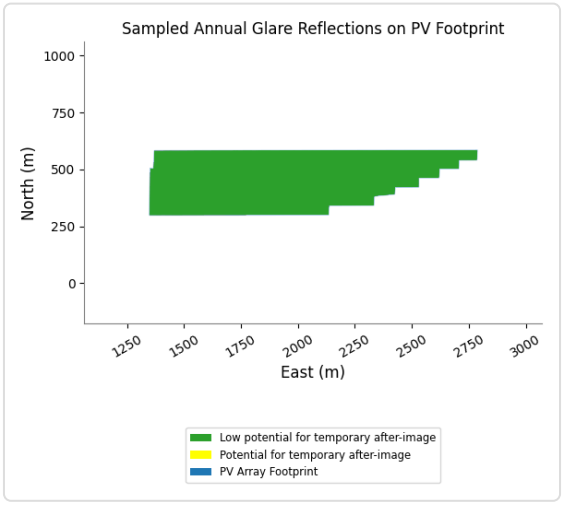
Yellow glare: none

Green glare: 1,953 min.





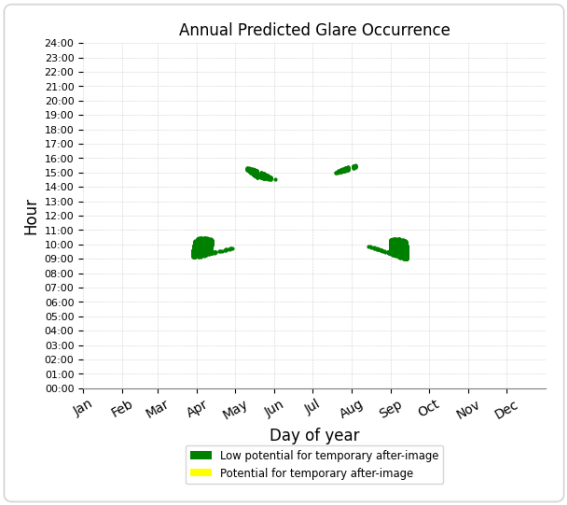


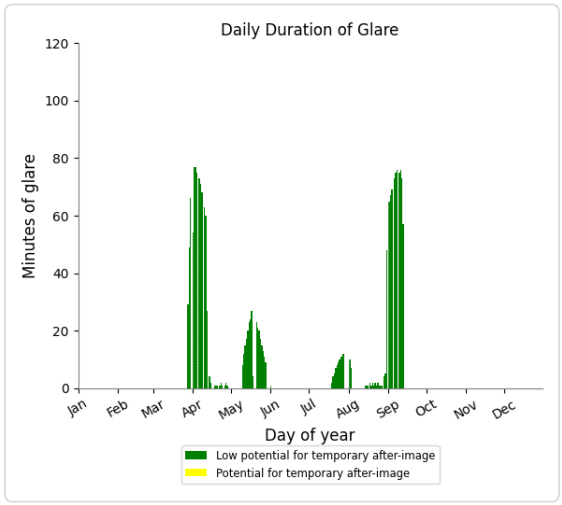


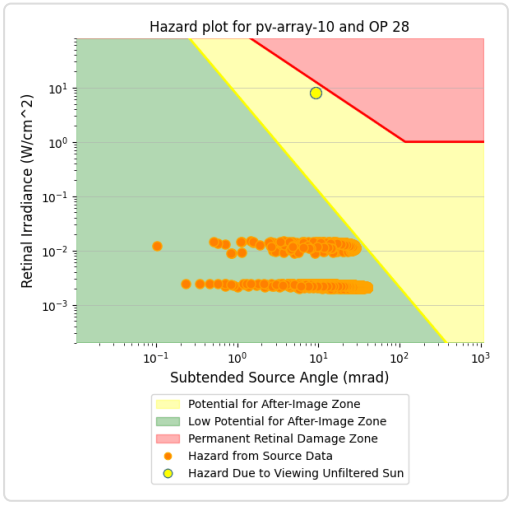
PV array 10 and OP 28

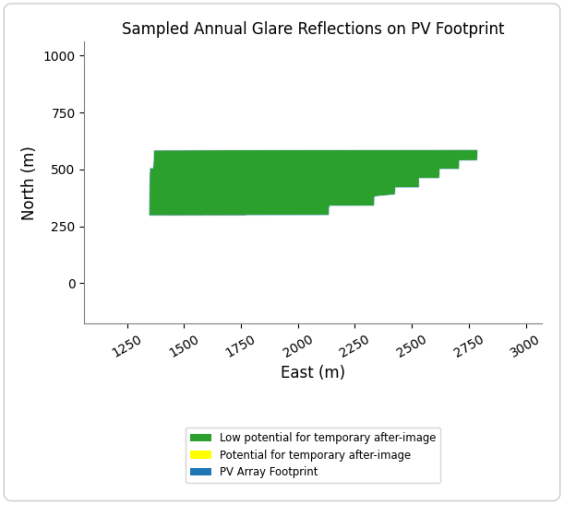
Yellow glare: none

Green glare: 1,962 min.





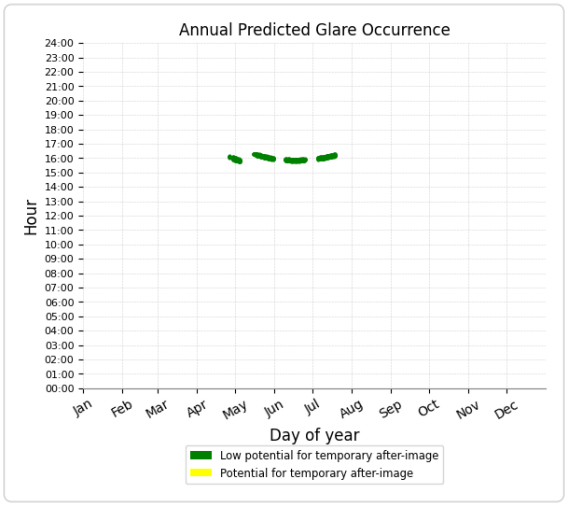


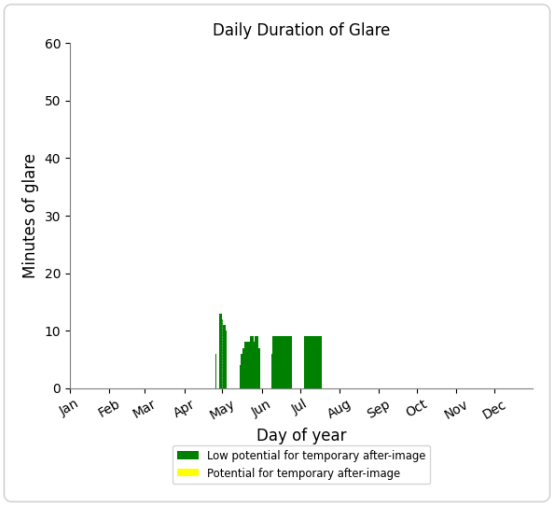


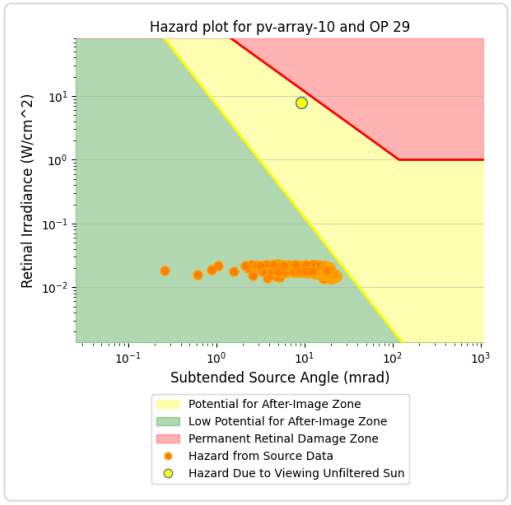
PV array 10 and OP 29

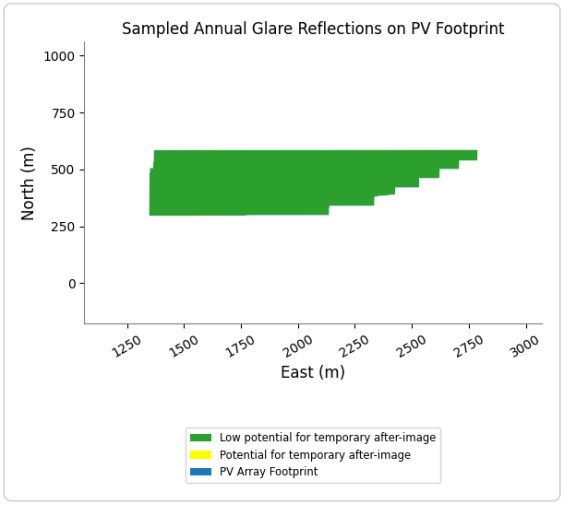
Yellow glare: none

Green glare: 468 min.





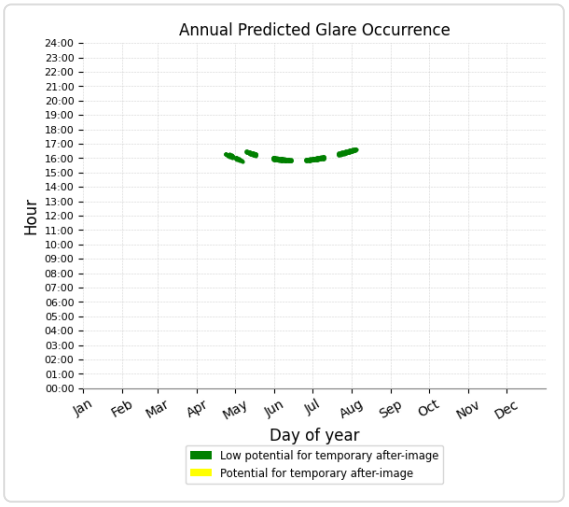


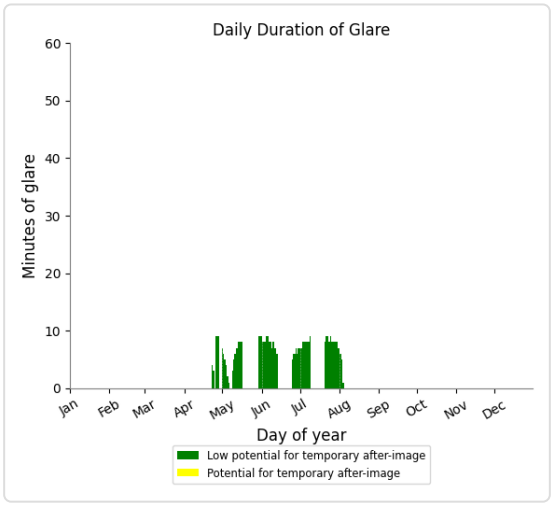


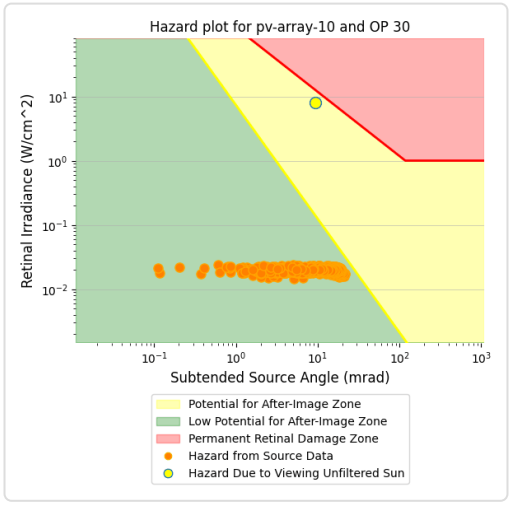
PV array 10 and OP 30

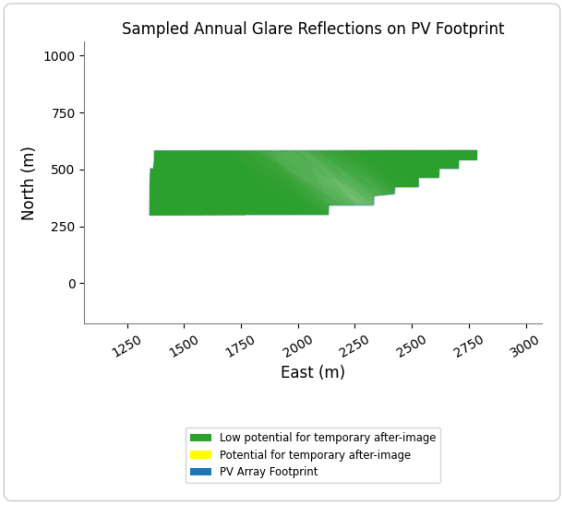
Yellow glare: none

Green glare: 448 min.





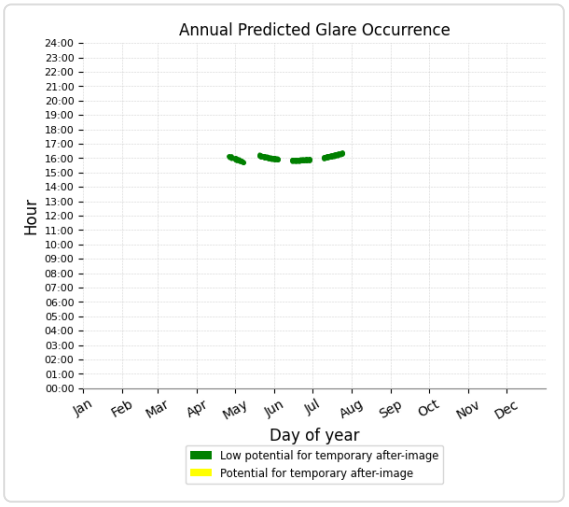


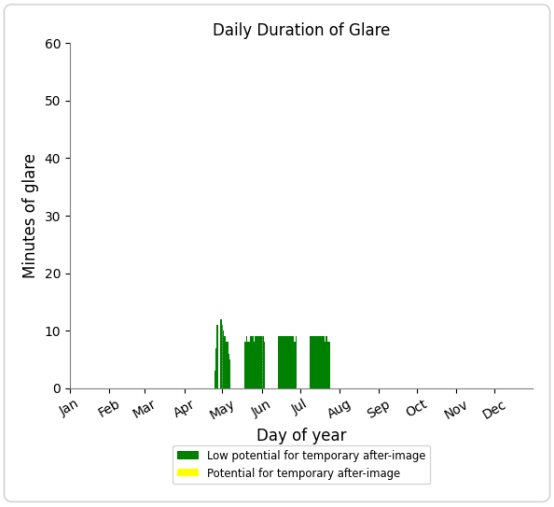


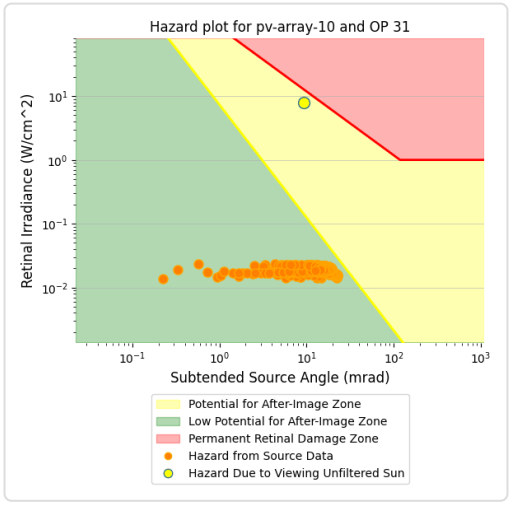
PV array 10 and OP 31

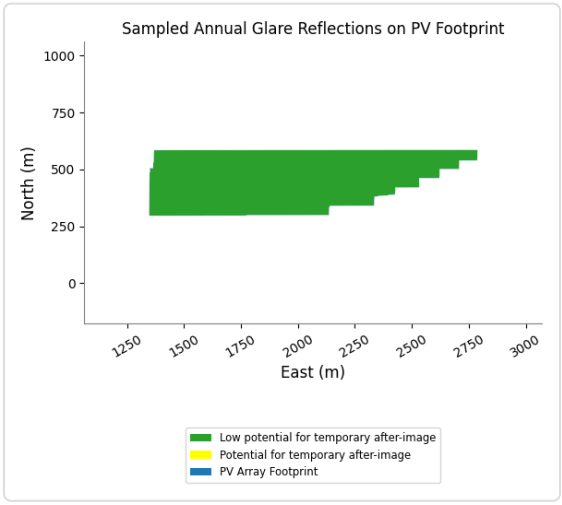
Yellow glare: none

Green glare: 504 min.





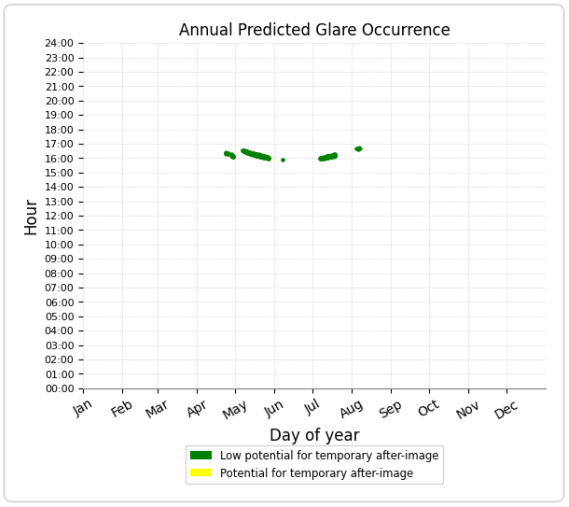


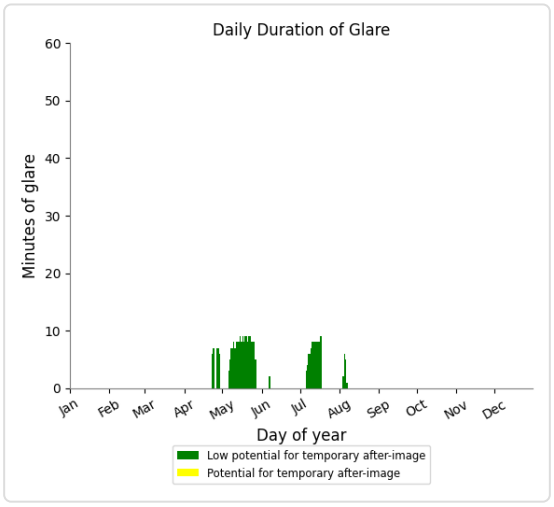


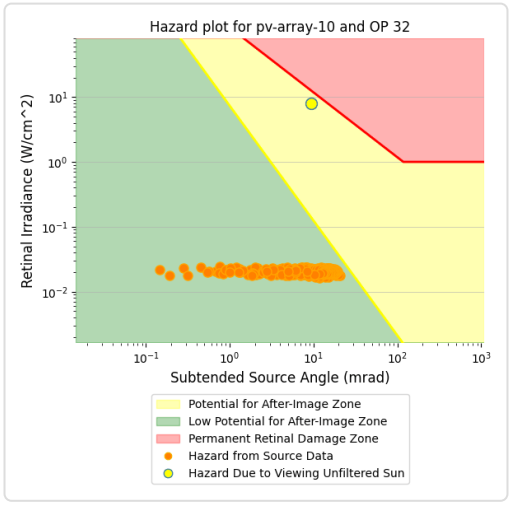
PV array 10 and OP 32

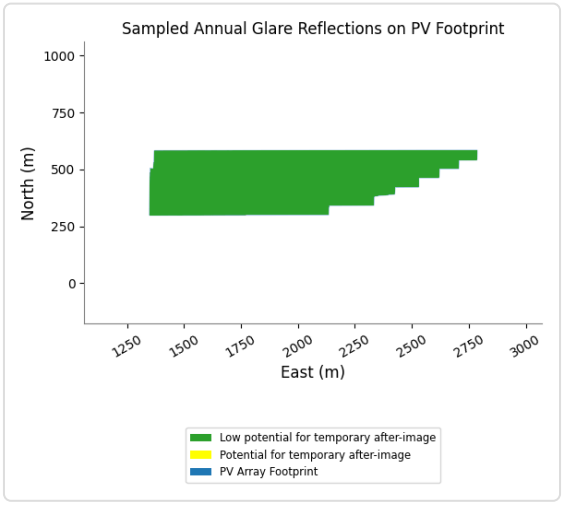
Yellow glare: none

Green glare: 309 min.



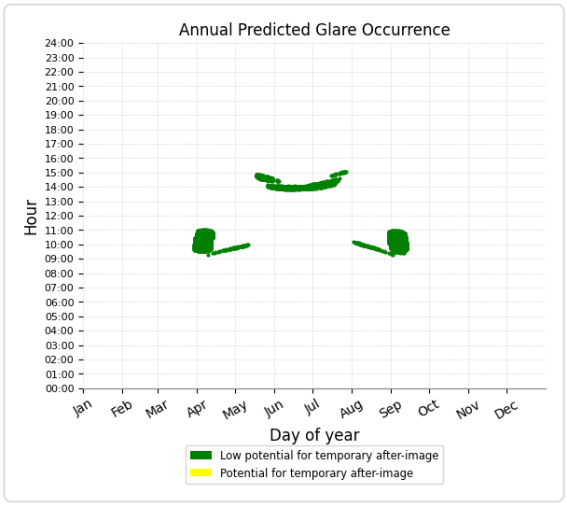


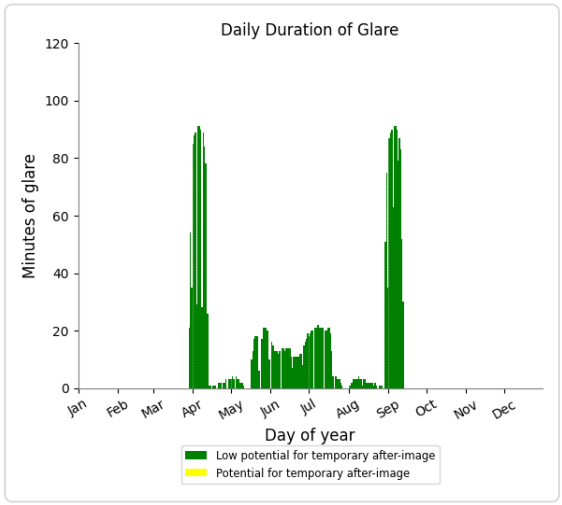


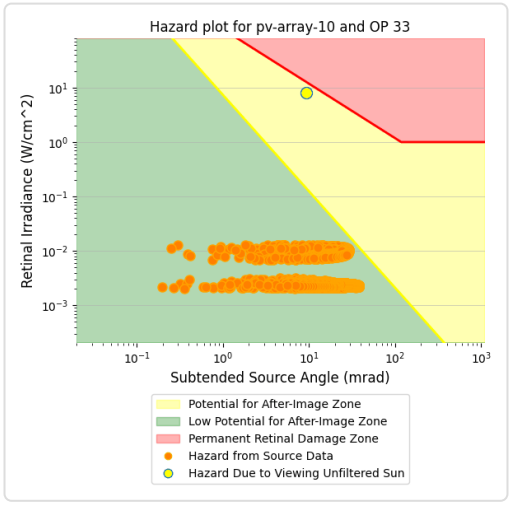


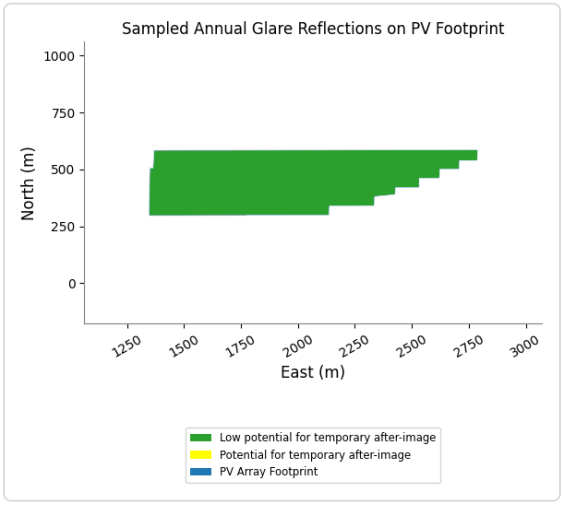
PV array 10 and OP 33

Yellow glare: none
Green glare: 3,154 min.









PV array 10 and OP 1

No glare found

PV array 10 and OP 2

No glare found

PV array 10 and OP 3

No glare found

PV array 10 and OP 4

No glare found

PV array 10 and OP 6

No glare found

PV array 10 and OP 9

No glare found

PV array 10 and OP 10

No glare found

PV array 10 and OP 11

No glare found

PV array 10 and OP 12

No glare found

PV array 10 and OP 13

No glare found

PV array 10 and OP 14

No glare found

PV array 10 and OP 15

No glare found

PV array 10 and OP 16

No glare found

PV array 10 and OP 17

No glare found

PV array 10 and OP 18

No glare found

PV array 10 and OP 19

No glare found

PV array 10 and OP 20

No glare found

PV array 10 and OP 21

No glare found

PV array 10 and OP 22

No glare found

PV array 10 and OP 23

No glare found

PV array 10 and OP 24

No glare found

PV array 10 and OP 25

No glare found

PV: PV array 15 potential temporary after-image

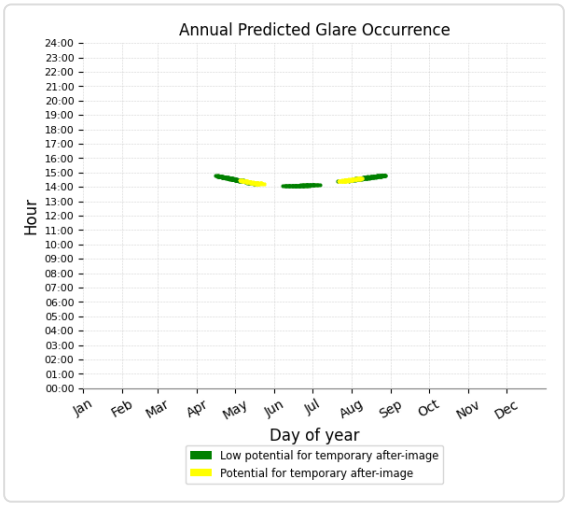
Receptor results ordered by category of glare

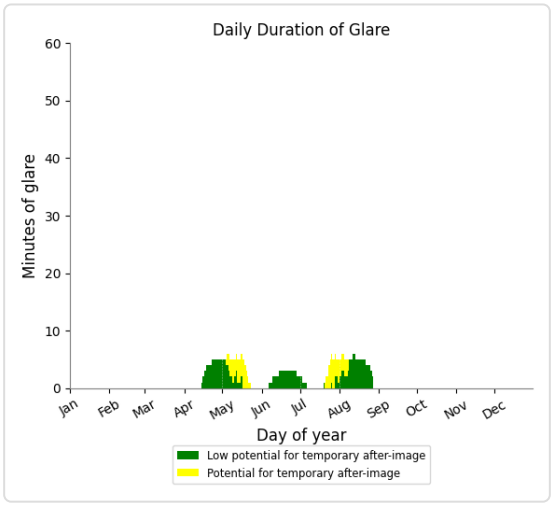
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	287	4.8	127	2.1
Avenue Road	0	0.0	0	0.0
OP 21	296	4.9	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

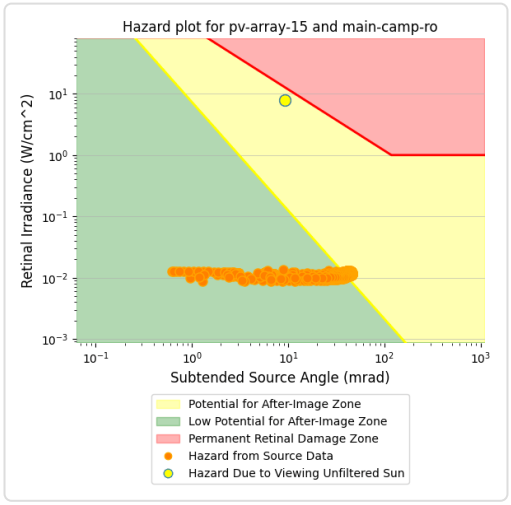
PV array 15 and Route: Main Camp Road

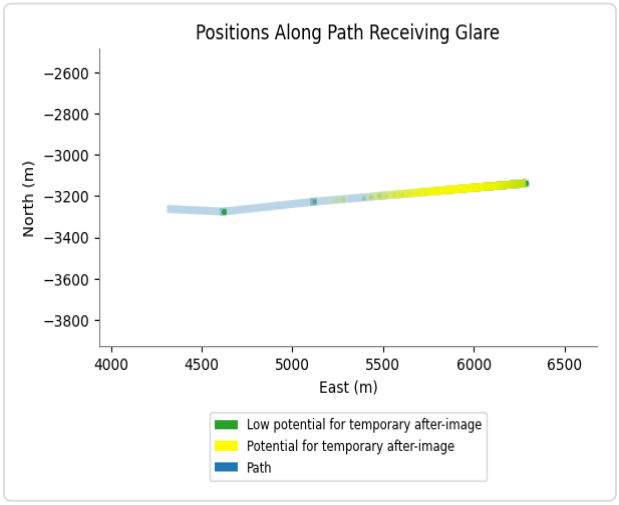
Yellow glare: 127 min.

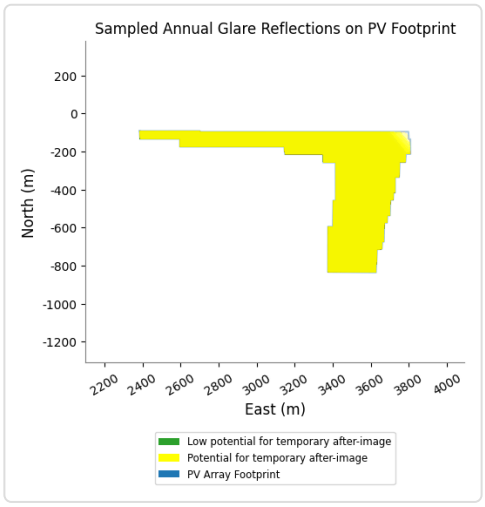
Green glare: 287 min.











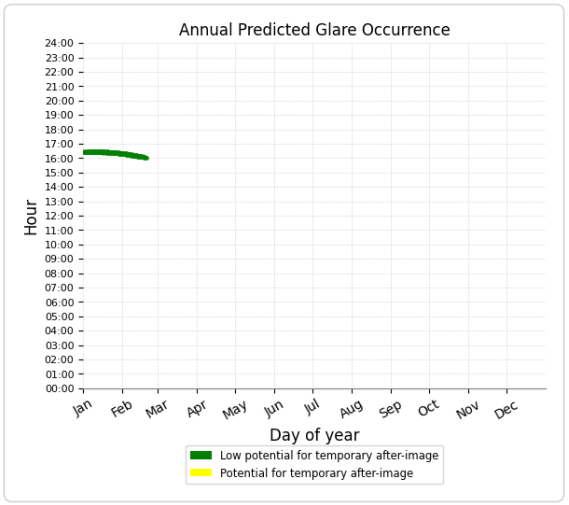
PV array 15 and Route: Avenue Road

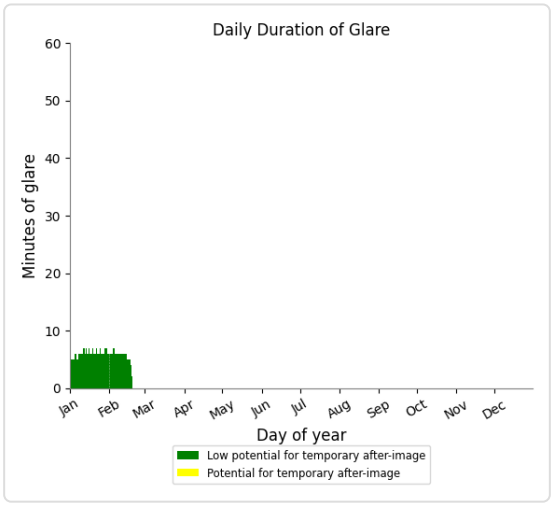
No glare found

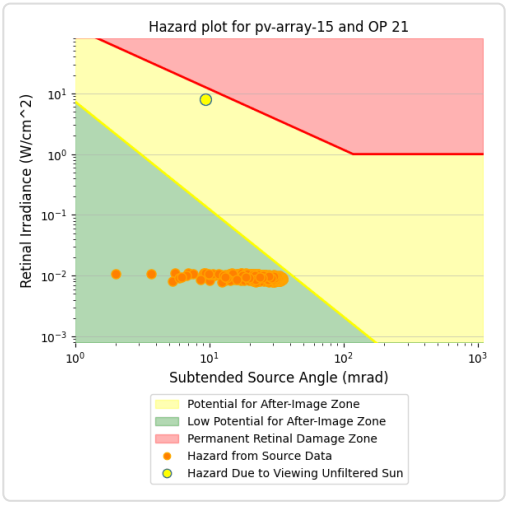
PV array 15 and OP 21

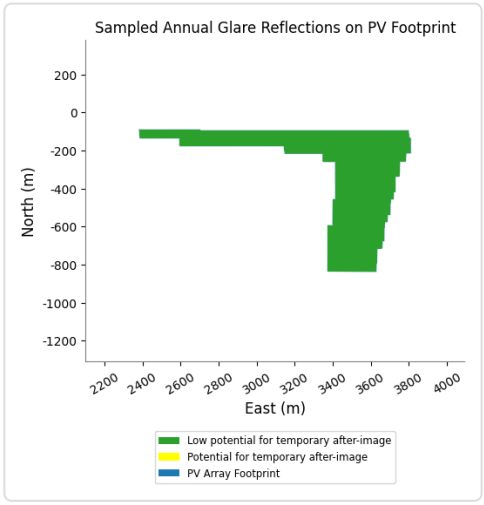
Yellow glare: none

Green glare: 296 min.









PV array 15 and OP 1

No glare found

PV array 15 and OP 2

No glare found

PV array 15 and OP 3

No glare found

PV array 15 and OP 4

No glare found

PV array 15 and OP 5

No glare found

PV array 15 and OP 6

No glare found

PV array 15 and OP 7

No glare found

PV array 15 and OP 8

No glare found

PV array 15 and OP 9

No glare found

PV array 15 and OP 10

No glare found

PV array 15 and OP 11

No glare found

PV array 15 and OP 12

No glare found

PV array 15 and OP 13

No glare found

PV array 15 and OP 14

No glare found

PV array 15 and OP 15

No glare found

PV array 15 and OP 16

No glare found

PV array 15 and OP 17

No glare found

PV array 15 and OP 18

No glare found

PV array 15 and OP 19

No glare found

PV array 15 and OP 20

No glare found

PV array 15 and OP 22

No glare found

PV array 15 and OP 23

No glare found

PV array 15 and OP 24

No glare found

PV array 15 and OP 25

No glare found

PV array 15 and OP 26

No glare found

PV array 15 and OP 27

No glare found

PV array 15 and OP 28

No glare found

PV array 15 and OP 29

No glare found

PV array 15 and OP 30

No glare found

PV array 15 and OP 31

No glare found

PV array 15 and OP 32

No glare found

PV array 15 and OP 33

No glare found

PV: PV array 16 no glare found

Receptor results ordered by category of glare

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

PV array 16 and Route: Avenue Road

No glare found

PV array 16 and Route: Main Camp Road

No glare found

PV array 16 and OP 1

No glare found

PV array 16 and OP 2

No glare found

PV array 16 and OP 3

No glare found

PV array 16 and OP 4

No glare found

PV array 16 and OP 5

No glare found

PV array 16 and OP 6

No glare found

PV array 16 and OP 7

No glare found

PV array 16 and OP 8

No glare found

PV array 16 and OP 9

No glare found

PV array 16 and OP 10

No glare found

PV array 16 and OP 11

No glare found

PV array 16 and OP 12

No glare found

PV array 16 and OP 13

No glare found

PV array 16 and OP 14

No glare found

PV array 16 and OP 15

No glare found

PV array 16 and OP 16

No glare found

PV array 16 and OP 17

No glare found

PV array 16 and OP 18

No glare found

PV array 16 and OP 19

No glare found

PV array 16 and OP 20

No glare found

PV array 16 and OP 21

No glare found

PV array 16 and OP 22

No glare found

PV array 16 and OP 23

No glare found

PV array 16 and OP 24

No glare found

PV array 16 and OP 25

No glare found

PV array 16 and OP 26

No glare found

PV array 16 and OP 27

No glare found

PV array 16 and OP 28

No glare found

PV array 16 and OP 29

No glare found

PV array 16 and OP 30

No glare found

PV array 16 and OP 31

No glare found

PV array 16 and OP 32

No glare found

PV array 16 and OP 33

No glare found

PV: PV array 17 no glare found

Receptor results ordered by category of glare

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

PV array 17 and Route: Avenue Road

No glare found

PV array 17 and Route: Main Camp Road

No glare found

PV array 17 and OP 1

No glare found

PV array 17 and OP 2

No glare found

PV array 17 and OP 3

No glare found

PV array 17 and OP 4

No glare found

PV array 17 and OP 5

No glare found

PV array 17 and OP 6

No glare found

PV array 17 and OP 7

No glare found

PV array 17 and OP 8

No glare found

PV array 17 and OP 9

No glare found

PV array 17 and OP 10

No glare found

PV array 17 and OP 11

No glare found

PV array 17 and OP 12

No glare found

PV array 17 and OP 13

No glare found

PV array 17 and OP 14

No glare found

PV array 17 and OP 15

No glare found

PV array 17 and OP 16

No glare found

PV array 17 and OP 17

No glare found

PV array 17 and OP 18

No glare found

PV array 17 and OP 19

No glare found

PV array 17 and OP 20

No glare found

PV array 17 and OP 21

No glare found

PV array 17 and OP 22

No glare found

PV array 17 and OP 23

No glare found

PV array 17 and OP 24

No glare found

PV array 17 and OP 25

No glare found

PV array 17 and OP 26

No glare found

PV array 17 and OP 27

No glare found

PV array 17 and OP 28

No glare found

PV array 17 and OP 29

No glare found

PV array 17 and OP 30

No glare found

PV array 17 and OP 31

No glare found

PV array 17 and OP 32

No glare found

PV array 17 and OP 33

No glare found

PV: PV array 18 no glare found

Receptor results ordered by category of glare

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

PV array 18 and Route: Avenue Road

No glare found

PV array 18 and Route: Main Camp Road

No glare found

PV array 18 and OP 1

No glare found

PV array 18 and OP 2

No glare found

PV array 18 and OP 3

No glare found

PV array 18 and OP 4

No glare found

PV array 18 and OP 5

No glare found

PV array 18 and OP 6

No glare found

PV array 18 and OP 7

No glare found

PV array 18 and OP 8

No glare found

PV array 18 and OP 9

No glare found

PV array 18 and OP 10

No glare found

PV array 18 and OP 11

No glare found

PV array 18 and OP 12

No glare found

PV array 18 and OP 13

No glare found

PV array 18 and OP 14

No glare found

PV array 18 and OP 15

No glare found

PV array 18 and OP 16

No glare found

PV array 18 and OP 17

No glare found

PV array 18 and OP 18

No glare found

PV array 18 and OP 19

No glare found

PV array 18 and OP 20

No glare found

PV array 18 and OP 21

No glare found

PV array 18 and OP 22

No glare found

PV array 18 and OP 23

No glare found

PV array 18 and OP 24

No glare found

PV array 18 and OP 25

No glare found

PV array 18 and OP 26

No glare found

PV array 18 and OP 27

No glare found

PV array 18 and OP 28

No glare found

PV array 18 and OP 29

No glare found

PV array 18 and OP 30

No glare found

PV array 18 and OP 31

No glare found

PV array 18 and OP 32

No glare found

PV array 18 and OP 33

No glare found

PV: PV array 19 no glare found

Receptor results ordered by category of glare

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

PV array 19 and Route: Avenue Road

No glare found

PV array 19 and Route: Main Camp Road

No glare found

PV array 19 and OP 1

No glare found

PV array 19 and OP 2

No glare found

PV array 19 and OP 3

No glare found

PV array 19 and OP 4

No glare found

PV array 19 and OP 5

No glare found

PV array 19 and OP 6

No glare found

PV array 19 and OP 7

No glare found

PV array 19 and OP 8

No glare found

PV array 19 and OP 9

No glare found

PV array 19 and OP 10

No glare found

PV array 19 and OP 11

No glare found

PV array 19 and OP 12

No glare found

PV array 19 and OP 13

No glare found

PV array 19 and OP 14

No glare found

PV array 19 and OP 15

No glare found

PV array 19 and OP 16

No glare found

PV array 19 and OP 17

No glare found

PV array 19 and OP 18

No glare found

PV array 19 and OP 19

No glare found

PV array 19 and OP 20

No glare found

PV array 19 and OP 21

No glare found

PV array 19 and OP 22

No glare found

PV array 19 and OP 23

No glare found

PV array 19 and OP 24

No glare found

PV array 19 and OP 25

No glare found

PV array 19 and OP 26

No glare found

PV array 19 and OP 27

No glare found

PV array 19 and OP 28

No glare found

PV array 19 and OP 29

No glare found

PV array 19 and OP 30

No glare found

PV array 19 and OP 31

No glare found

PV array 19 and OP 32

No glare found

PV array 19 and OP 33

No glare found

PV: PV array 2 no glare found

Receptor results ordered by category of glare

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

PV array 2 and Route: Avenue Road

No glare found

PV array 2 and Route: Main Camp Road

No glare found

PV array 2 and OP 1

No glare found

PV array 2 and OP 2

No glare found

PV array 2 and OP 3

No glare found

PV array 2 and OP 4

No glare found

PV array 2 and OP 5

No glare found

PV array 2 and OP 6

No glare found

PV array 2 and OP 7

No glare found

PV array 2 and OP 8

No glare found

PV array 2 and OP 9

No glare found

PV array 2 and OP 10

No glare found

PV array 2 and OP 11

No glare found

PV array 2 and OP 12

No glare found

PV array 2 and OP 13

No glare found

PV array 2 and OP 14

No glare found

PV array 2 and OP 15

No glare found

PV array 2 and OP 16

No glare found

PV array 2 and OP 17

No glare found

PV array 2 and OP 18

No glare found

PV array 2 and OP 19

No glare found

PV array 2 and OP 20

No glare found

PV array 2 and OP 21

No glare found

PV array 2 and OP 22

No glare found

PV array 2 and OP 23

No glare found

PV array 2 and OP 24

No glare found

PV array 2 and OP 25

No glare found

PV array 2 and OP 26

No glare found

PV array 2 and OP 27

No glare found

PV array 2 and OP 28

No glare found

PV array 2 and OP 29

No glare found

PV array 2 and OP 30

No glare found

PV array 2 and OP 31

No glare found

PV array 2 and OP 32

No glare found

PV array 2 and OP 33

No glare found

PV: PV array 20 no glare found

Receptor results ordered by category of glare

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

PV array 20 and Route: Avenue Road

No glare found

PV array 20 and Route: Main Camp Road

No glare found

PV array 20 and OP 1

No glare found

PV array 20 and OP 2

No glare found

PV array 20 and OP 3

No glare found

PV array 20 and OP 4

No glare found

PV array 20 and OP 5

No glare found

PV array 20 and OP 6

No glare found

PV array 20 and OP 7

No glare found

PV array 20 and OP 8

No glare found

PV array 20 and OP 9

No glare found

PV array 20 and OP 10

No glare found

PV array 20 and OP 11

No glare found

PV array 20 and OP 12

No glare found

PV array 20 and OP 13

No glare found

PV array 20 and OP 14

No glare found

PV array 20 and OP 15

No glare found

PV array 20 and OP 16

No glare found

PV array 20 and OP 17

No glare found

PV array 20 and OP 18

No glare found

PV array 20 and OP 19

No glare found

PV array 20 and OP 20

No glare found

PV array 20 and OP 21

No glare found

PV array 20 and OP 22

No glare found

PV array 20 and OP 23

No glare found

PV array 20 and OP 24

No glare found

PV array 20 and OP 25

No glare found

PV array 20 and OP 26

No glare found

PV array 20 and OP 27

No glare found

PV array 20 and OP 28

No glare found

PV array 20 and OP 29

No glare found

PV array 20 and OP 30

No glare found

PV array 20 and OP 31

No glare found

PV array 20 and OP 32

No glare found

PV array 20 and OP 33

No glare found

PV: PV array 21 no glare found

Receptor results ordered by category of glare

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

PV array 21 and Route: Avenue Road

No glare found

PV array 21 and Route: Main Camp Road

No glare found

PV array 21 and OP 1

No glare found

PV array 21 and OP 2

No glare found

PV array 21 and OP 3

No glare found

PV array 21 and OP 4

No glare found

PV array 21 and OP 5

No glare found

PV array 21 and OP 6

No glare found

PV array 21 and OP 7

No glare found

PV array 21 and OP 8

No glare found

PV array 21 and OP 9

No glare found

PV array 21 and OP 10

No glare found

PV array 21 and OP 11

No glare found

PV array 21 and OP 12

No glare found

PV array 21 and OP 13

No glare found

PV array 21 and OP 14

No glare found

PV array 21 and OP 15

No glare found

PV array 21 and OP 16

No glare found

PV array 21 and OP 17

No glare found

PV array 21 and OP 18

No glare found

PV array 21 and OP 19

No glare found

PV array 21 and OP 20

No glare found

PV array 21 and OP 21

No glare found

PV array 21 and OP 22

No glare found

PV array 21 and OP 23

No glare found

PV array 21 and OP 24

No glare found

PV array 21 and OP 25

No glare found

PV array 21 and OP 26

No glare found

PV array 21 and OP 27

No glare found

PV array 21 and OP 28

No glare found

PV array 21 and OP 29

No glare found

PV array 21 and OP 30

No glare found

PV array 21 and OP 31

No glare found

PV array 21 and OP 32

No glare found

PV array 21 and OP 33

No glare found

PV: PV array 22 low potential for temporary after-image

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	0	0.0	0	0.0
Main Camp Road	0	0.0	0	0.0
OP 32	287	4.8	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

PV array 22 and Route: Avenue Road

No glare found

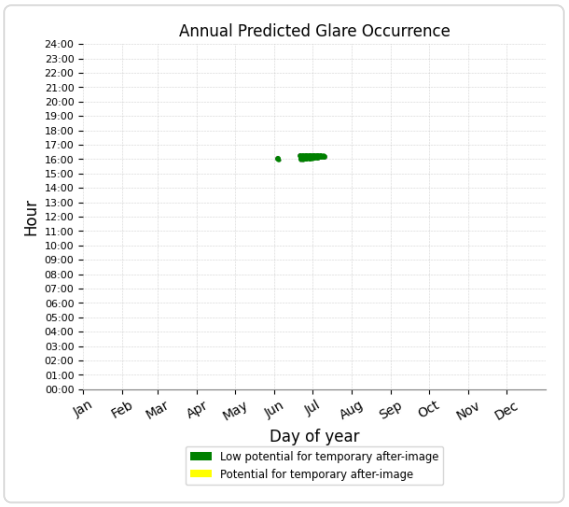
PV array 22 and Route: Main Camp Road

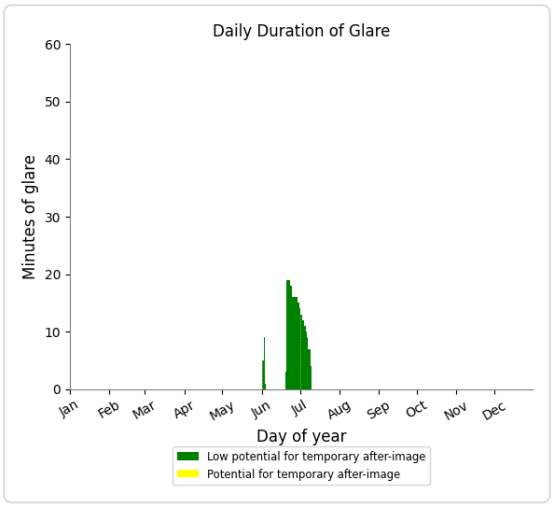
No glare found

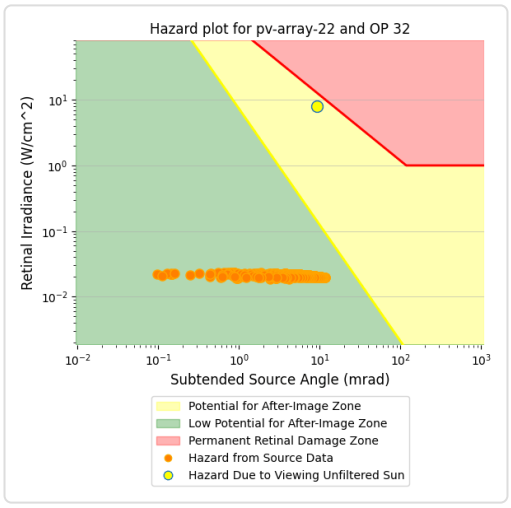
PV array 22 and OP 32

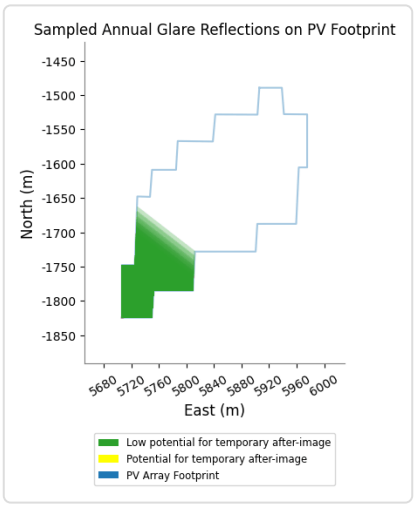
Yellow glare: none

Green glare: 287 min.









PV array 22 and OP 1

No glare found

PV array 22 and OP 2

No glare found

PV array 22 and OP 3

No glare found

PV array 22 and OP 4

No glare found

PV array 22 and OP 5

No glare found

PV array 22 and OP 6

No glare found

PV array 22 and OP 7

No glare found

PV array 22 and OP 8

No glare found

PV array 22 and OP 9

No glare found

PV array 22 and OP 10

No glare found

PV array 22 and OP 11

No glare found

PV array 22 and OP 12

No glare found

PV array 22 and OP 13

No glare found

PV array 22 and OP 14

No glare found

PV array 22 and OP 15

No glare found

PV array 22 and OP 16

No glare found

PV array 22 and OP 17

No glare found

PV array 22 and OP 18

No glare found

PV array 22 and OP 19

No glare found

PV array 22 and OP 20

No glare found

PV array 22 and OP 21

No glare found

PV array 22 and OP 22

No glare found

PV array 22 and OP 23

No glare found

PV array 22 and OP 24

No glare found

PV array 22 and OP 25

No glare found

PV array 22 and OP 26

No glare found

PV array 22 and OP 27

No glare found

PV array 22 and OP 28

No glare found

PV array 22 and OP 29

No glare found

PV array 22 and OP 30

No glare found

PV array 22 and OP 31

No glare found

PV array 22 and OP 33

No glare found

PV: PV array 23 no glare found

Receptor results ordered by category of glare

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

PV array 23 and Route: Avenue Road

No glare found

PV array 23 and Route: Main Camp Road

No glare found

PV array 23 and OP 1

No glare found

PV array 23 and OP 2

No glare found

PV array 23 and OP 3

No glare found

PV array 23 and OP 4

No glare found

PV array 23 and OP 5

No glare found

PV array 23 and OP 6

No glare found

PV array 23 and OP 7

No glare found

PV array 23 and OP 8

No glare found

PV array 23 and OP 9

No glare found

PV array 23 and OP 10

No glare found

PV array 23 and OP 11

No glare found

PV array 23 and OP 12

No glare found

PV array 23 and OP 13

No glare found

PV array 23 and OP 14

No glare found

PV array 23 and OP 15

No glare found

PV array 23 and OP 16

No glare found

PV array 23 and OP 17

No glare found

PV array 23 and OP 18

No glare found

PV array 23 and OP 19

No glare found

PV array 23 and OP 20

No glare found

PV array 23 and OP 21

No glare found

PV array 23 and OP 22

No glare found

PV array 23 and OP 23

No glare found

PV array 23 and OP 24

No glare found

PV array 23 and OP 25

No glare found

PV array 23 and OP 26

No glare found

PV array 23 and OP 27

No glare found

PV array 23 and OP 28

No glare found

PV array 23 and OP 29

No glare found

PV array 23 and OP 30

No glare found

PV array 23 and OP 31

No glare found

PV array 23 and OP 32

No glare found

PV array 23 and OP 33

No glare found

PV: PV array 3 no glare found

Receptor results ordered by category of glare

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

PV array 3 and Route: Avenue Road

No glare found

PV array 3 and Route: Main Camp Road

No glare found

PV array 3 and OP 1

No glare found

PV array 3 and OP 2

No glare found

PV array 3 and OP 3

No glare found

PV array 3 and OP 4

No glare found

PV array 3 and OP 5

No glare found

PV array 3 and OP 6

No glare found

PV array 3 and OP 7

No glare found

PV array 3 and OP 8

No glare found

PV array 3 and OP 9

No glare found

PV array 3 and OP 10

No glare found

PV array 3 and OP 11

No glare found

PV array 3 and OP 12

No glare found

PV array 3 and OP 13

No glare found

PV array 3 and OP 14

No glare found

PV array 3 and OP 15

No glare found

PV array 3 and OP 16

No glare found

PV array 3 and OP 17

No glare found

PV array 3 and OP 18

No glare found

PV array 3 and OP 19

No glare found

PV array 3 and OP 20

No glare found

PV array 3 and OP 21

No glare found

PV array 3 and OP 22

No glare found

PV array 3 and OP 23

No glare found

PV array 3 and OP 24

No glare found

PV array 3 and OP 25

No glare found

PV array 3 and OP 26

No glare found

PV array 3 and OP 27

No glare found

PV array 3 and OP 28

No glare found

PV array 3 and OP 29

No glare found

PV array 3 and OP 30

No glare found

PV array 3 and OP 31

No glare found

PV array 3 and OP 32

No glare found

PV array 3 and OP 33

No glare found

PV: PV array 4 no glare found

Receptor results ordered by category of glare

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

PV array 4 and Route: Avenue Road

No glare found

PV array 4 and Route: Main Camp Road

No glare found

PV array 4 and OP 1

No glare found

PV array 4 and OP 2

No glare found

PV array 4 and OP 3

No glare found

PV array 4 and OP 4

No glare found

PV array 4 and OP 5

No glare found

PV array 4 and OP 6

No glare found

PV array 4 and OP 7

No glare found

PV array 4 and OP 8

No glare found

PV array 4 and OP 9

No glare found

PV array 4 and OP 10

No glare found

PV array 4 and OP 11

No glare found

PV array 4 and OP 12

No glare found

PV array 4 and OP 13

No glare found

PV array 4 and OP 14

No glare found

PV array 4 and OP 15

No glare found

PV array 4 and OP 16

No glare found

PV array 4 and OP 17

No glare found

PV array 4 and OP 18

No glare found

PV array 4 and OP 19

No glare found

PV array 4 and OP 20

No glare found

PV array 4 and OP 21

No glare found

PV array 4 and OP 22

No glare found

PV array 4 and OP 23

No glare found

PV array 4 and OP 24

No glare found

PV array 4 and OP 25

No glare found

PV array 4 and OP 26

No glare found

PV array 4 and OP 27

No glare found

PV array 4 and OP 28

No glare found

PV array 4 and OP 29

No glare found

PV array 4 and OP 30

No glare found

PV array 4 and OP 31

No glare found

PV array 4 and OP 32

No glare found

PV array 4 and OP 33

No glare found

PV: PV array 5 no glare found

Receptor results ordered by category of glare

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

PV array 5 and Route: Avenue Road

No glare found

PV array 5 and Route: Main Camp Road

No glare found

PV array 5 and OP 1

No glare found

PV array 5 and OP 2

No glare found

PV array 5 and OP 3

No glare found

PV array 5 and OP 4

No glare found

PV array 5 and OP 5

No glare found

PV array 5 and OP 6

No glare found

PV array 5 and OP 7

No glare found

PV array 5 and OP 8

No glare found

PV array 5 and OP 9

No glare found

PV array 5 and OP 10

No glare found

PV array 5 and OP 11

No glare found

PV array 5 and OP 12

No glare found

PV array 5 and OP 13

No glare found

PV array 5 and OP 14

No glare found

PV array 5 and OP 15

No glare found

PV array 5 and OP 16

No glare found

PV array 5 and OP 17

No glare found

PV array 5 and OP 18

No glare found

PV array 5 and OP 19

No glare found

PV array 5 and OP 20

No glare found

PV array 5 and OP 21

No glare found

PV array 5 and OP 22

No glare found

PV array 5 and OP 23

No glare found

PV array 5 and OP 24

No glare found

PV array 5 and OP 25

No glare found

PV array 5 and OP 26

No glare found

PV array 5 and OP 27

No glare found

PV array 5 and OP 28

No glare found

PV array 5 and OP 29

No glare found

PV array 5 and OP 30

No glare found

PV array 5 and OP 31

No glare found

PV array 5 and OP 32

No glare found

PV array 5 and OP 33

No glare found

PV: PV array 6 potential temporary after-image

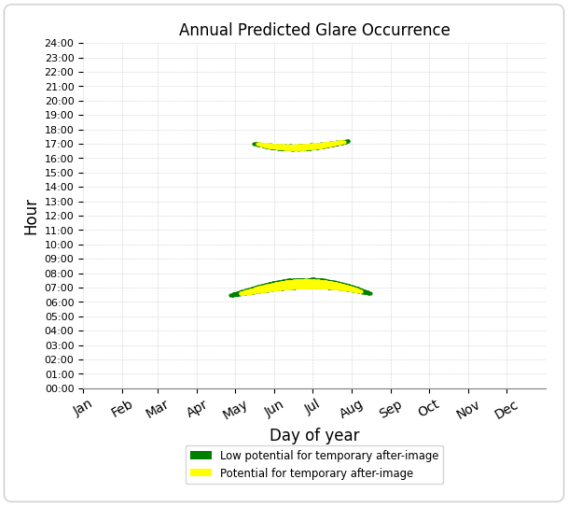
Receptor results ordered by category of glare

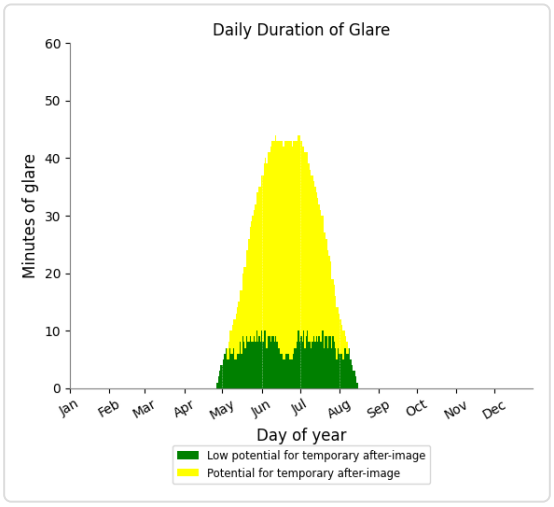
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	779	13.0	2,145	35.8
Main Camp Road	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

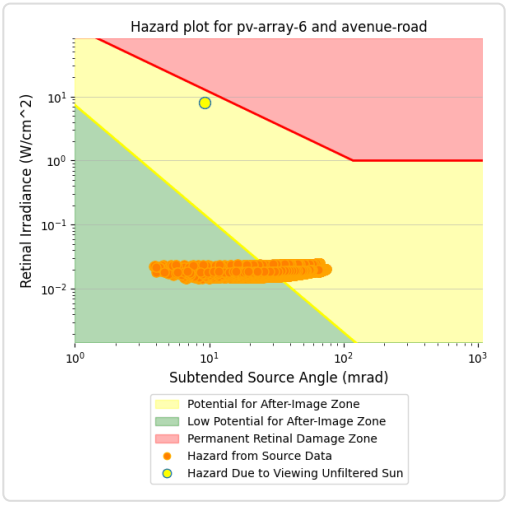
PV array 6 and Route: Avenue Road

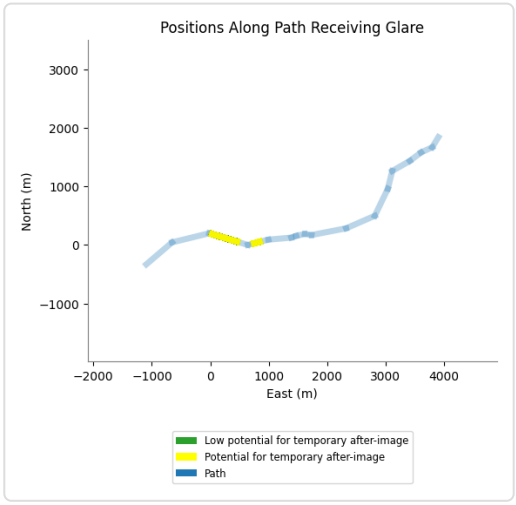
Yellow glare: 2,145 min.

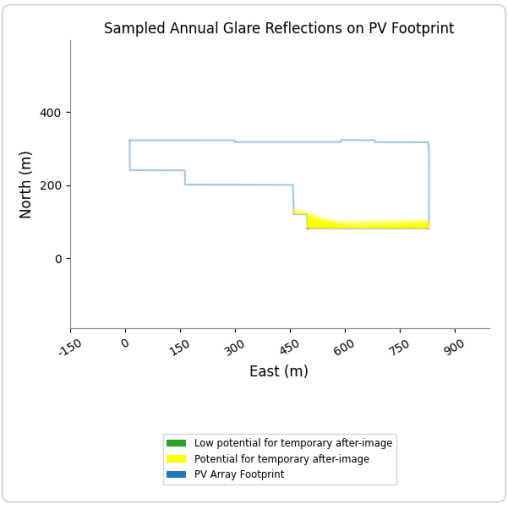
Green glare: 779 min.











PV array 6 and Route: Main Camp Road

No glare found

PV array 6 and OP 1

No glare found

PV array 6 and OP 2

No glare found

PV array 6 and OP 3

No glare found

PV array 6 and OP 4

No glare found

PV array 6 and OP 5

No glare found

PV array 6 and OP 6

No glare found

PV array 6 and OP 7

No glare found

PV array 6 and OP 8

No glare found

PV array 6 and OP 9

No glare found

PV array 6 and OP 10

No glare found

PV array 6 and OP 11

No glare found

PV array 6 and OP 12

No glare found

PV array 6 and OP 13

No glare found

PV array 6 and OP 14

No glare found

PV array 6 and OP 15

No glare found

PV array 6 and OP 16

No glare found

PV array 6 and OP 17

No glare found

PV array 6 and OP 18

No glare found

PV array 6 and OP 19

No glare found

PV array 6 and OP 20

No glare found

PV array 6 and OP 21

No glare found

PV array 6 and OP 22

No glare found

PV array 6 and OP 23

No glare found

PV array 6 and OP 24

No glare found

PV array 6 and OP 25

No glare found

PV array 6 and OP 26

No glare found

PV array 6 and OP 27

No glare found

PV array 6 and OP 28

No glare found

PV array 6 and OP 29

No glare found

PV array 6 and OP 30

No glare found

PV array 6 and OP 31

No glare found

PV array 6 and OP 32

No glare found

PV array 6 and OP 33

No glare found

PV: PV array 7 no glare found

Receptor results ordered by category of glare

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

PV array 7 and Route: Avenue Road

No glare found

PV array 7 and Route: Main Camp Road

No glare found

PV array 7 and OP 1

No glare found

PV array 7 and OP 2

No glare found

PV array 7 and OP 3

No glare found

PV array 7 and OP 4

No glare found

PV array 7 and OP 5

No glare found

PV array 7 and OP 6

No glare found

PV array 7 and OP 7

No glare found

PV array 7 and OP 8

No glare found

PV array 7 and OP 9

No glare found

PV array 7 and OP 10

No glare found

PV array 7 and OP 11

No glare found

PV array 7 and OP 12

No glare found

PV array 7 and OP 13

No glare found

PV array 7 and OP 14

No glare found

PV array 7 and OP 15

No glare found

PV array 7 and OP 16

No glare found

PV array 7 and OP 17

No glare found

PV array 7 and OP 18

No glare found

PV array 7 and OP 19

No glare found

PV array 7 and OP 20

No glare found

PV array 7 and OP 21

No glare found

PV array 7 and OP 22

No glare found

PV array 7 and OP 23

No glare found

PV array 7 and OP 24

No glare found

PV array 7 and OP 25

No glare found

PV array 7 and OP 26

No glare found

PV array 7 and OP 27

No glare found

PV array 7 and OP 28

No glare found

PV array 7 and OP 29

No glare found

PV array 7 and OP 30

No glare found

PV array 7 and OP 31

No glare found

PV array 7 and OP 32

No glare found

PV array 7 and OP 33

No glare found

PV: PV array 8 potential temporary after-image

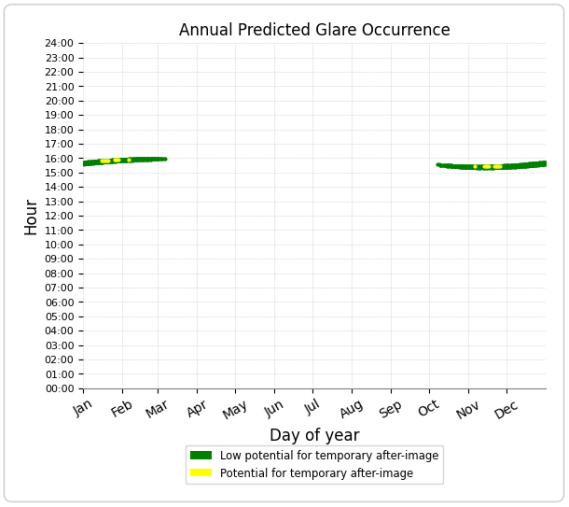
Receptor results ordered by category of glare

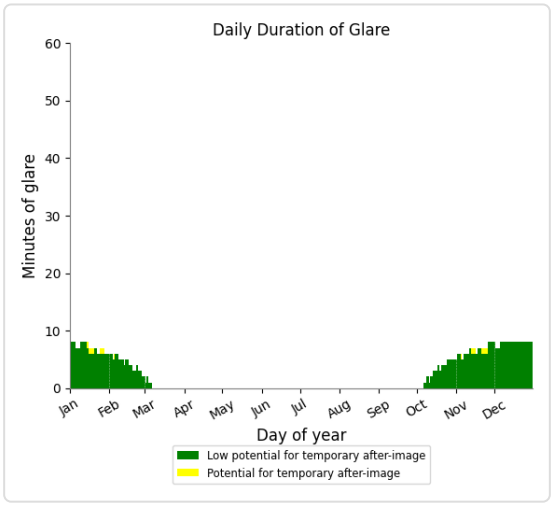
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	863	14.4	21	0.3
Main Camp Road	0	0.0	0	0.0
OP 9	307	5.1	0	0.0
OP 10	42	0.7	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	195	3.2	0	0.0
OP 16	538	9.0	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 22	288	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	57	0.9	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

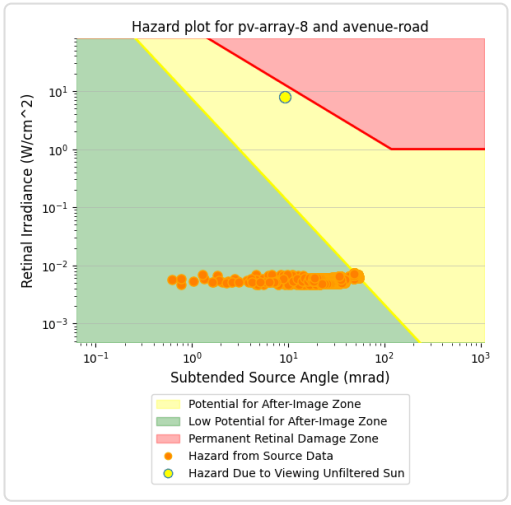
PV array 8 and Route: Avenue Road

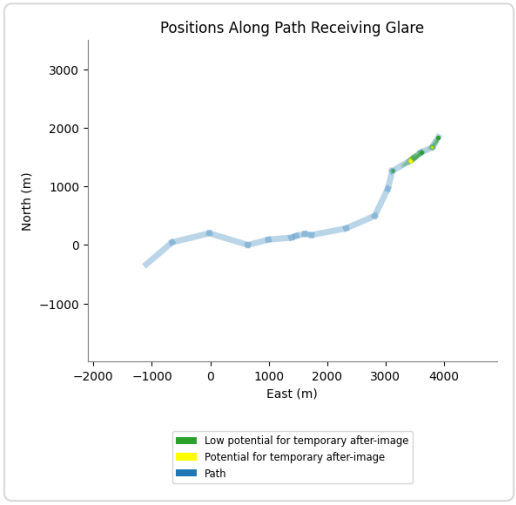
Yellow glare: 21 min.

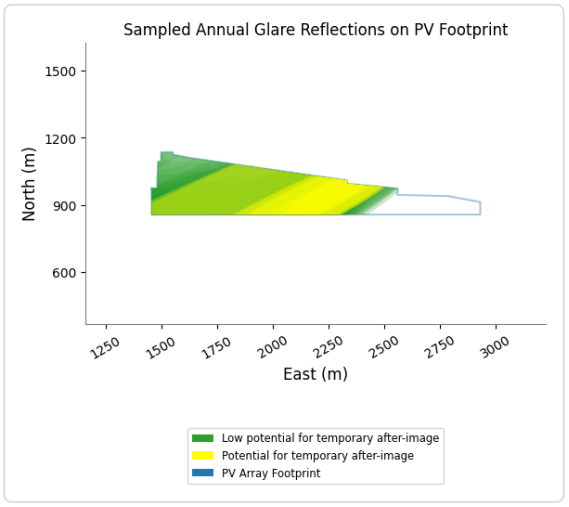
Green glare: 863 min.











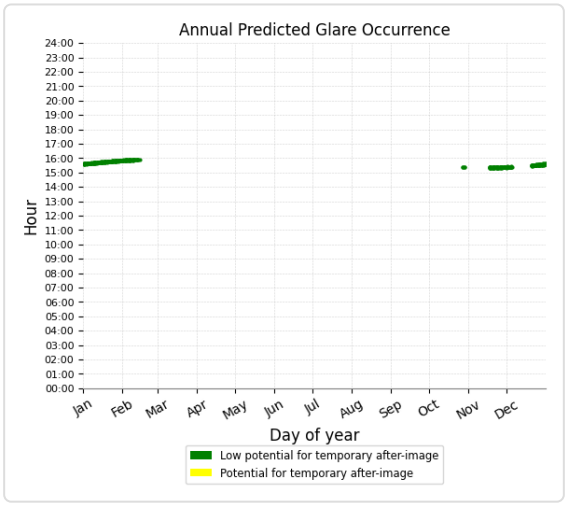
PV array 8 and Route: Main Camp Road

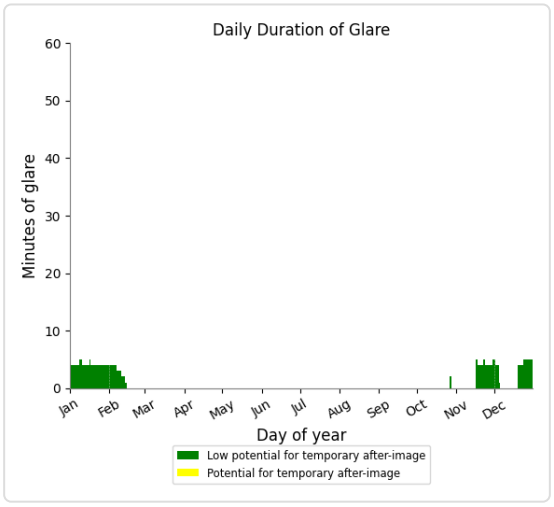
No glare found

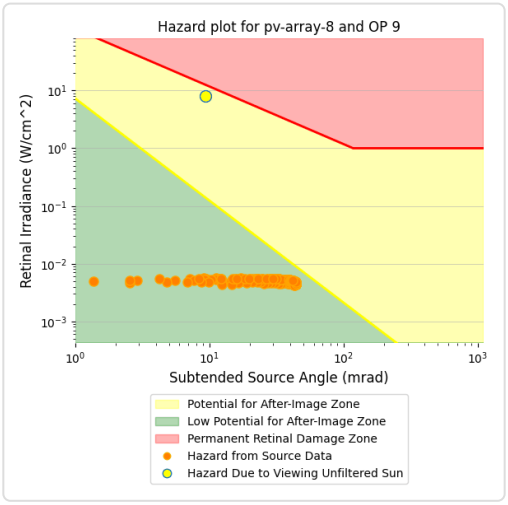
PV array 8 and OP 9

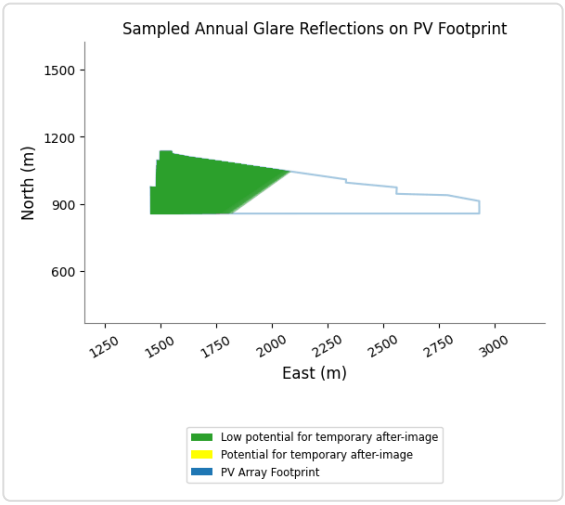
Yellow glare: none

Green glare: 307 min.





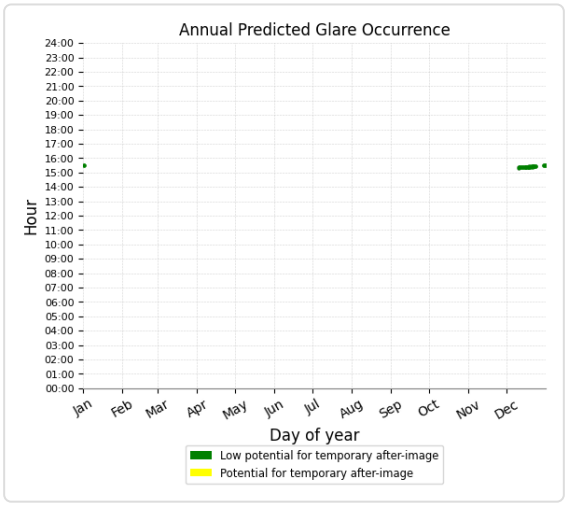


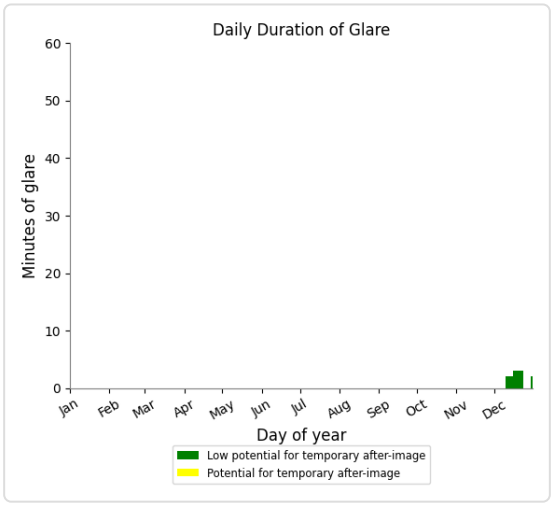


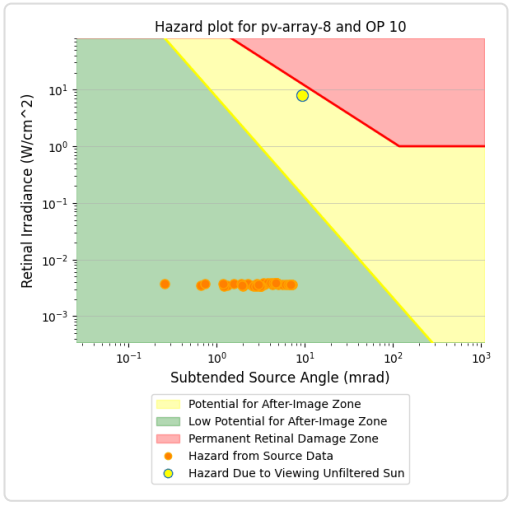
PV array 8 and OP 10

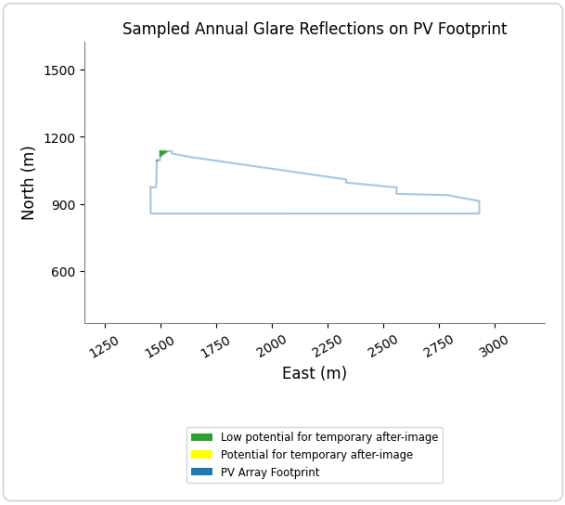
Yellow glare: none

Green glare: 42 min.





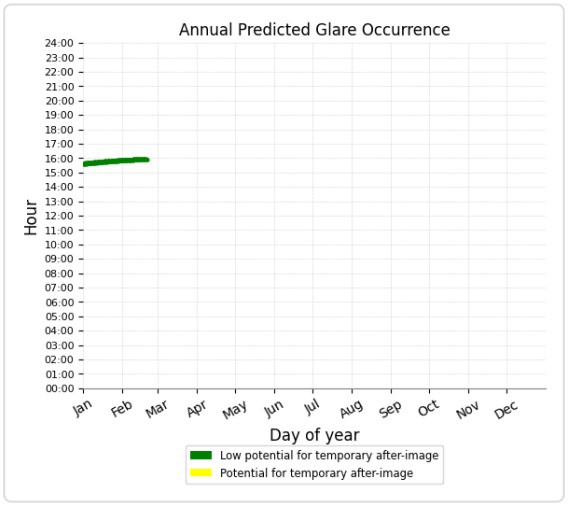


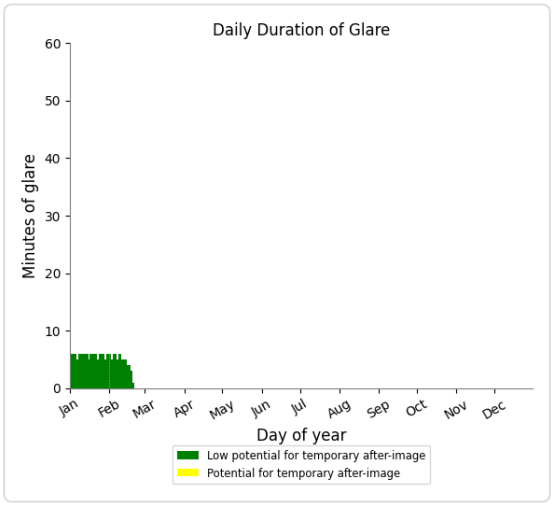


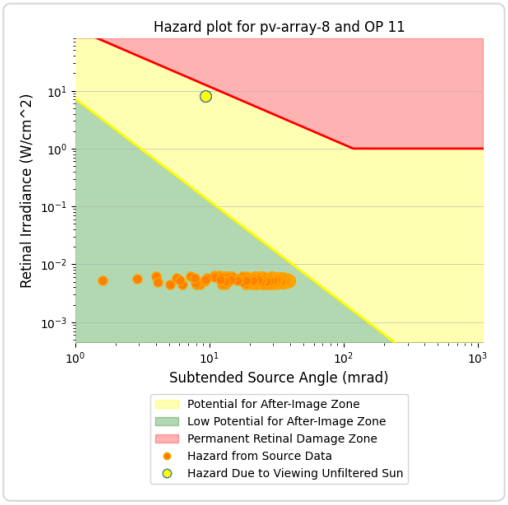
PV array 8 and OP 11

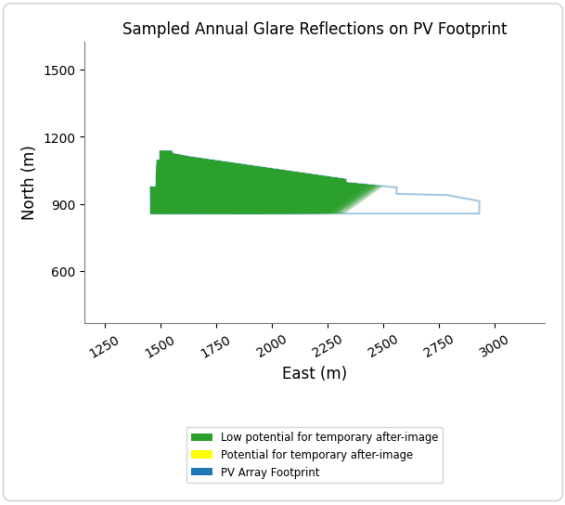
Yellow glare: none

Green glare: 278 min.





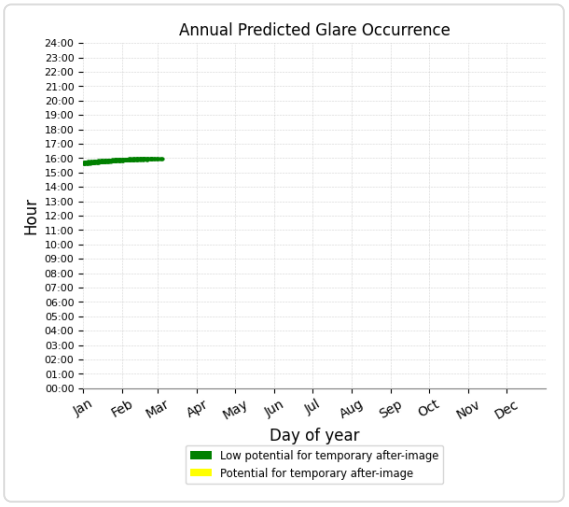


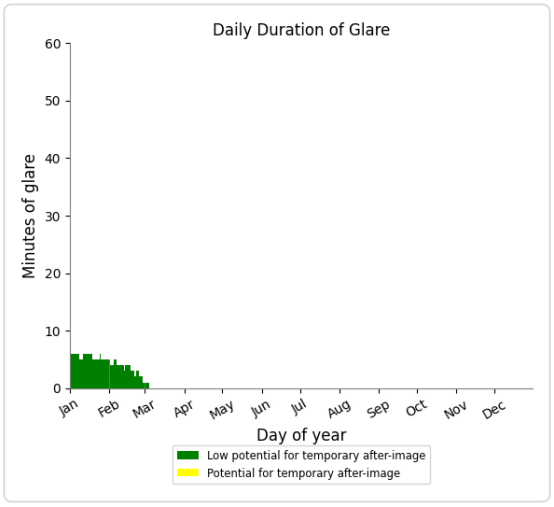


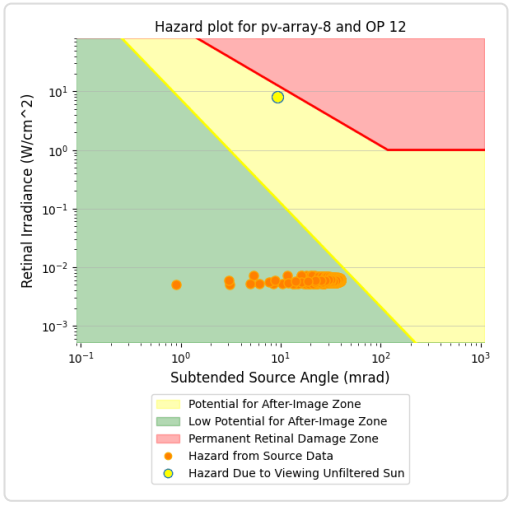
PV array 8 and OP 12

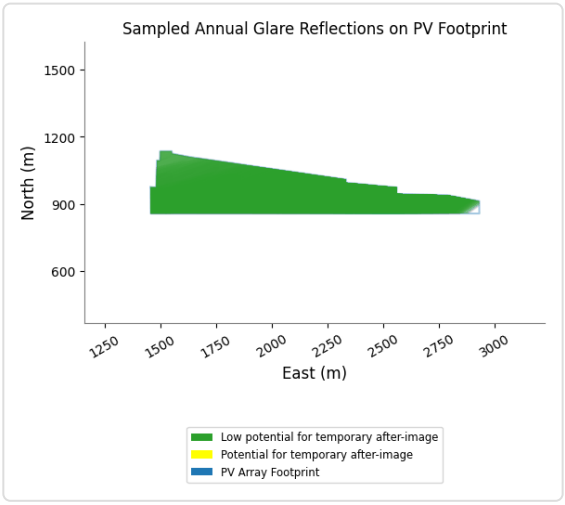
Yellow glare: none

Green glare: 271 min.





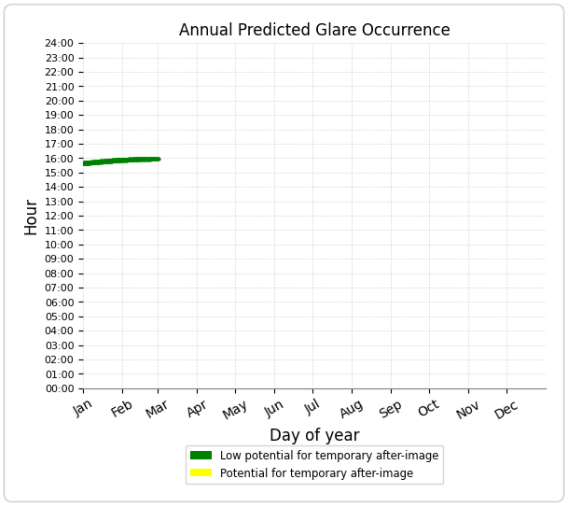


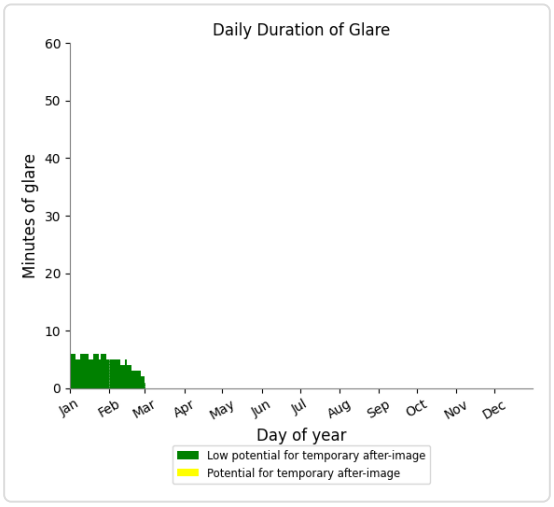


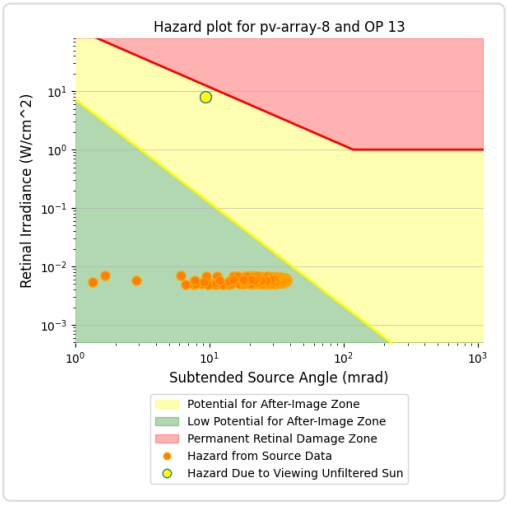
PV array 8 and OP 13

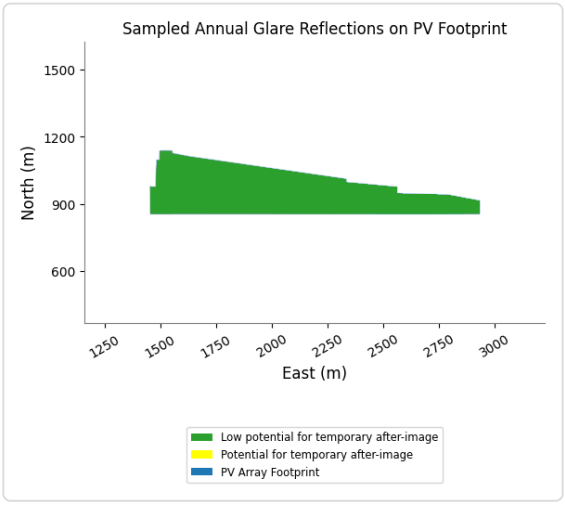
Yellow glare: none

Green glare: 284 min.





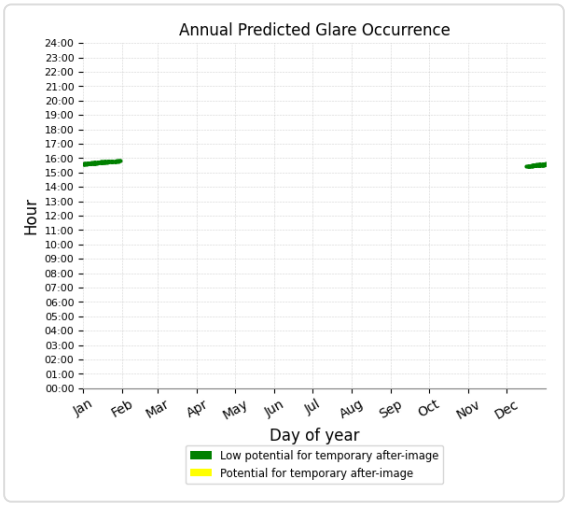


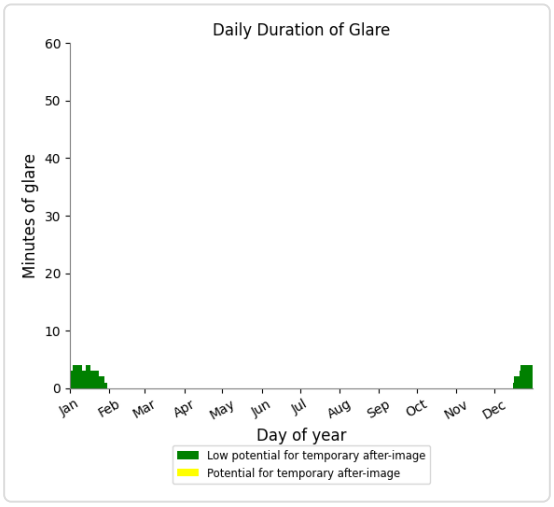


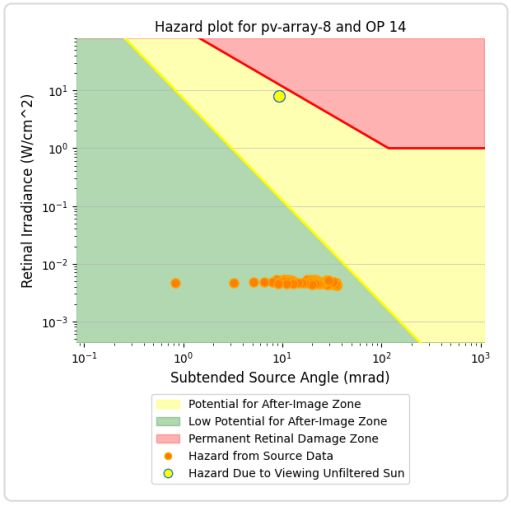
PV array 8 and OP 14

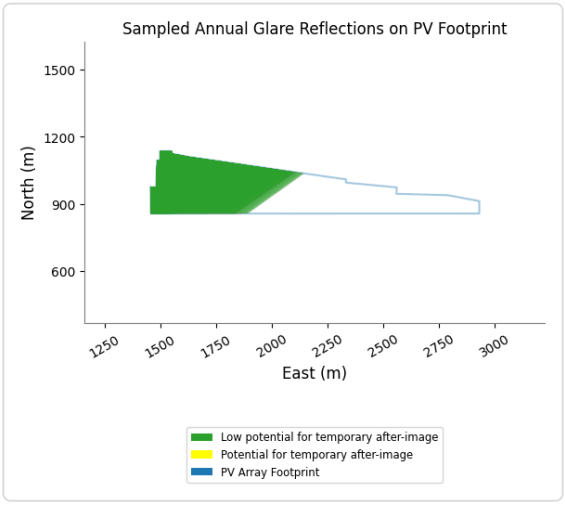
Yellow glare: none

Green glare: 144 min.





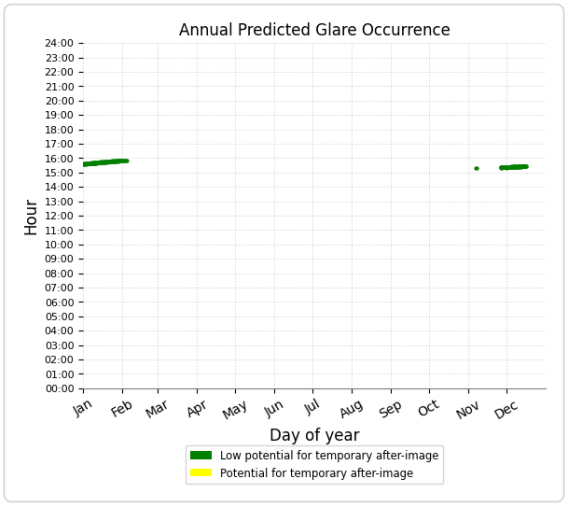


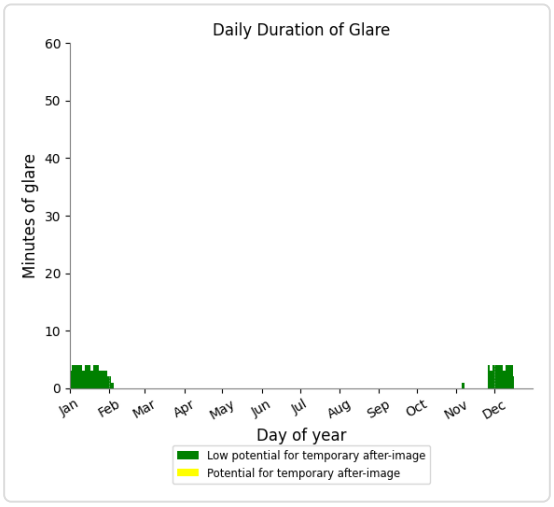


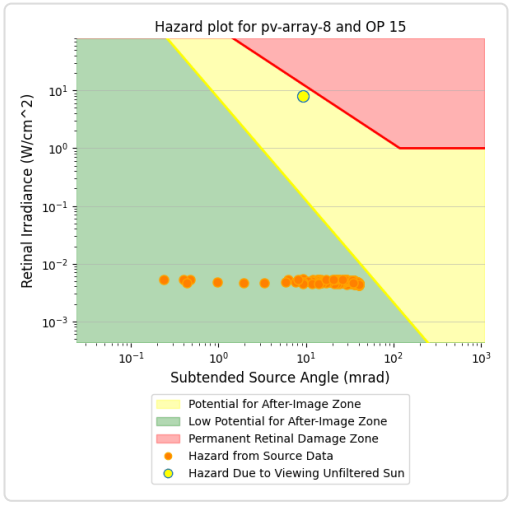
PV array 8 and OP 15

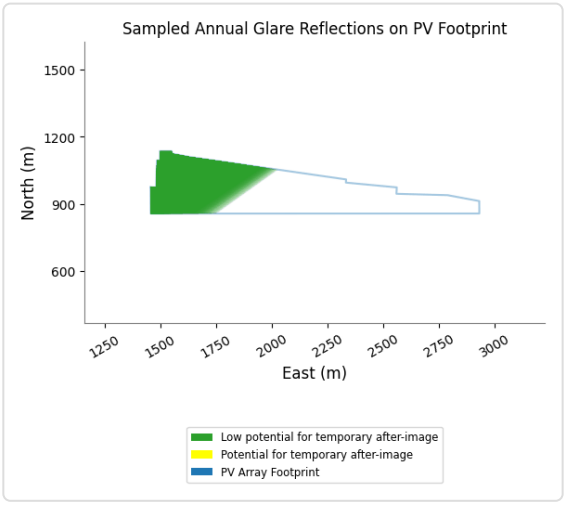
Yellow glare: none

Green glare: 195 min.





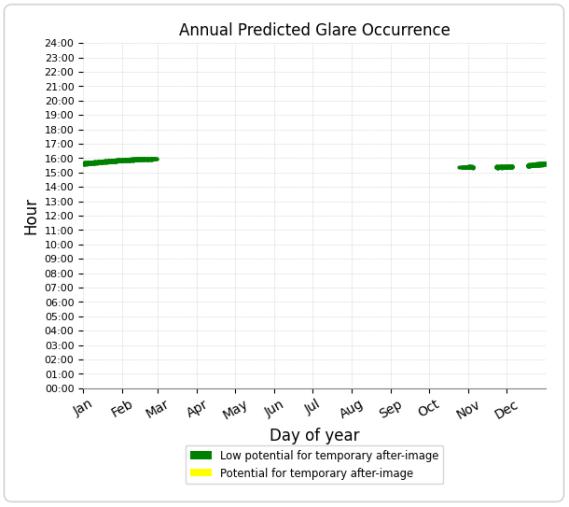


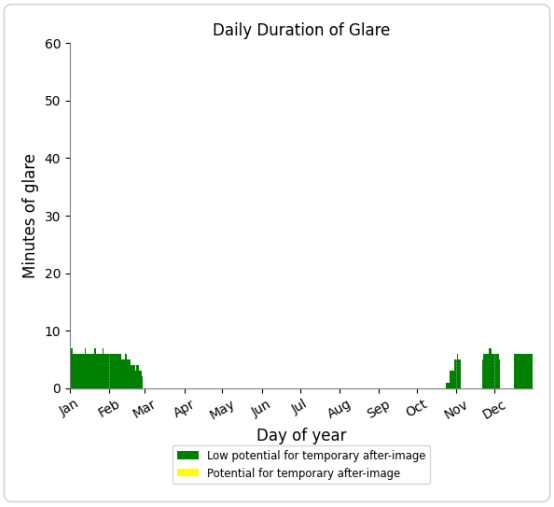


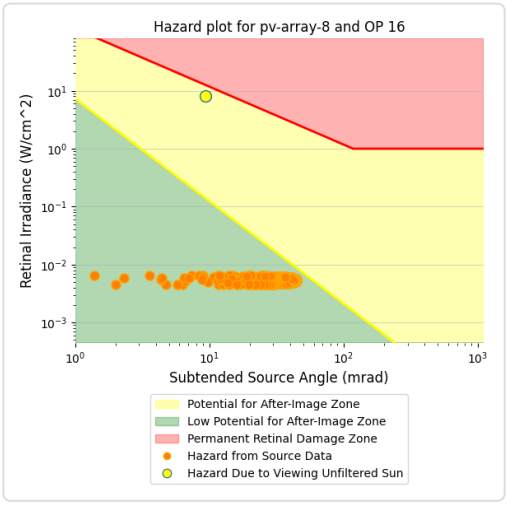
PV array 8 and OP 16

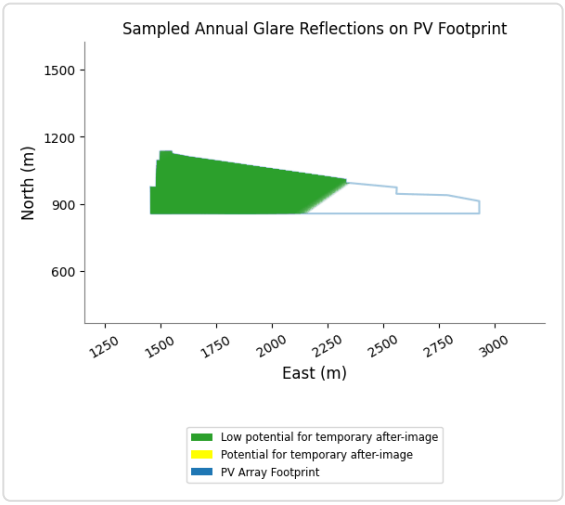
Yellow glare: none

Green glare: 538 min.





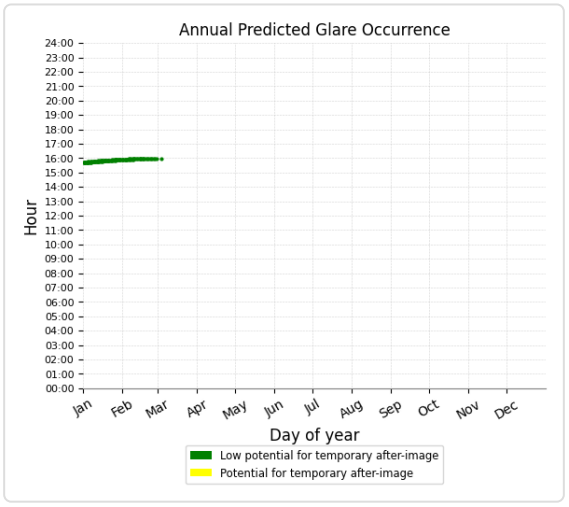


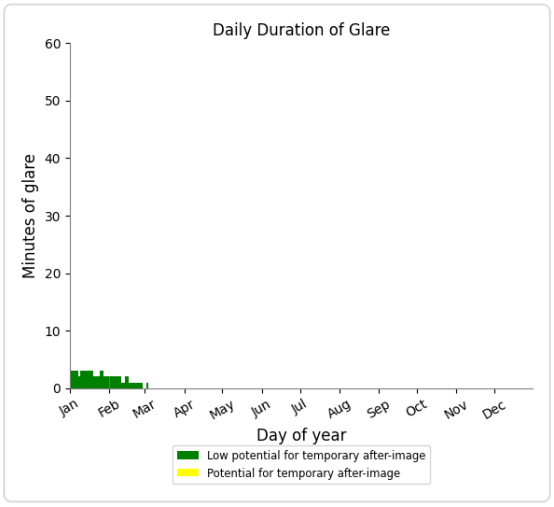


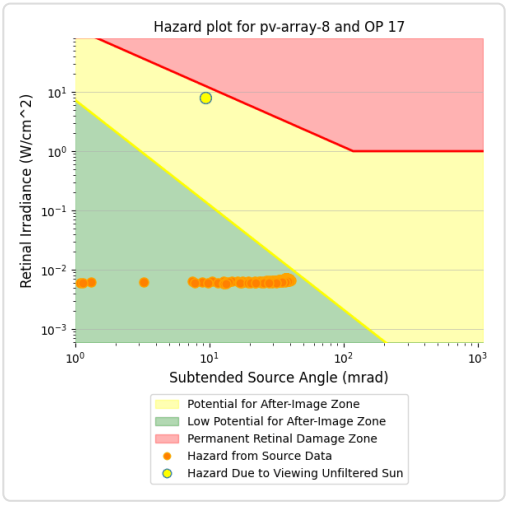
PV array 8 and OP 17

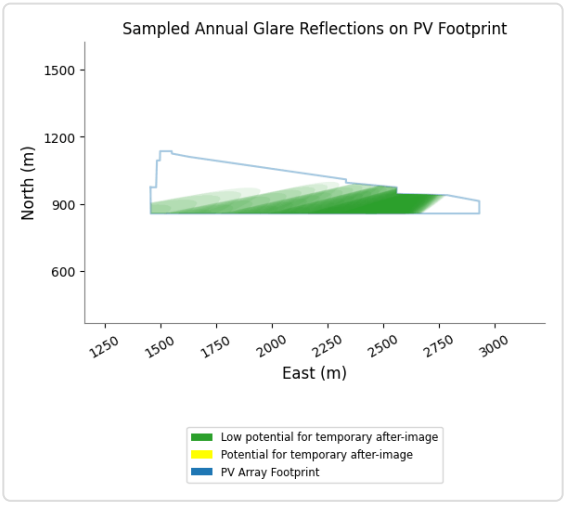
Yellow glare: none

Green glare: 123 min.





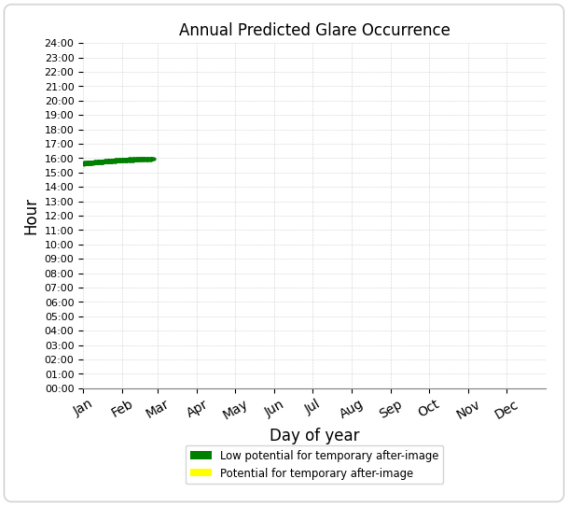


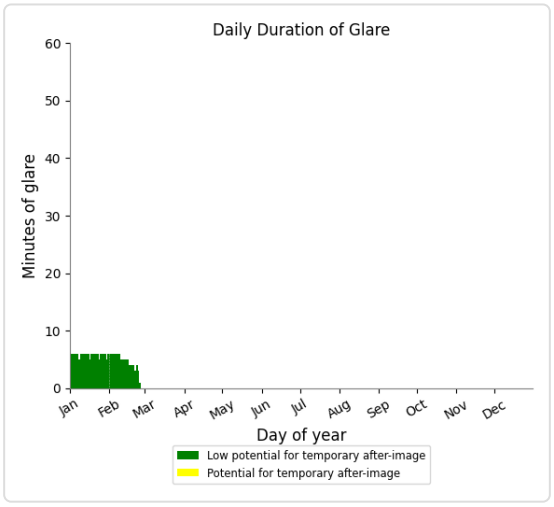


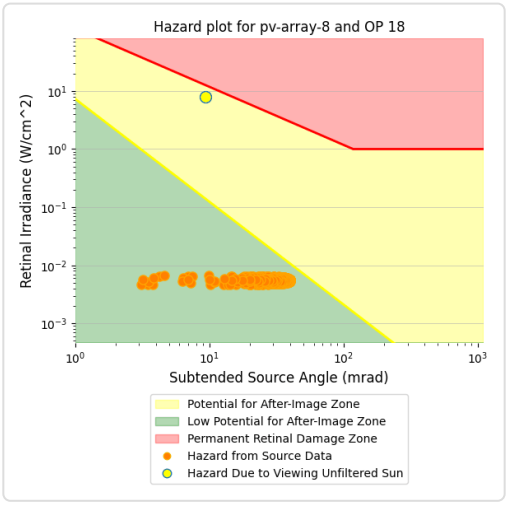
PV array 8 and OP 18

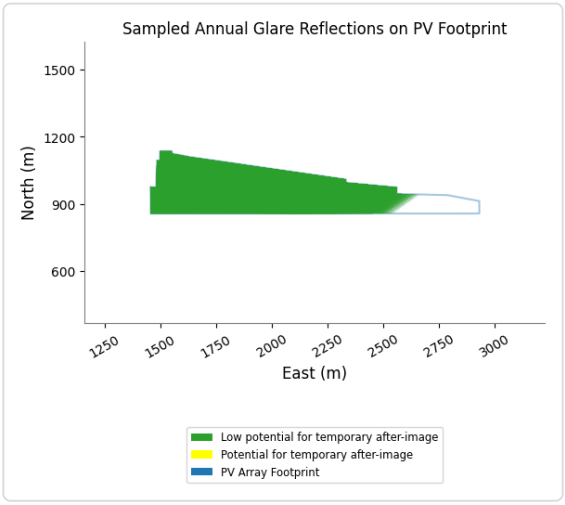
Yellow glare: none

Green glare: 300 min.





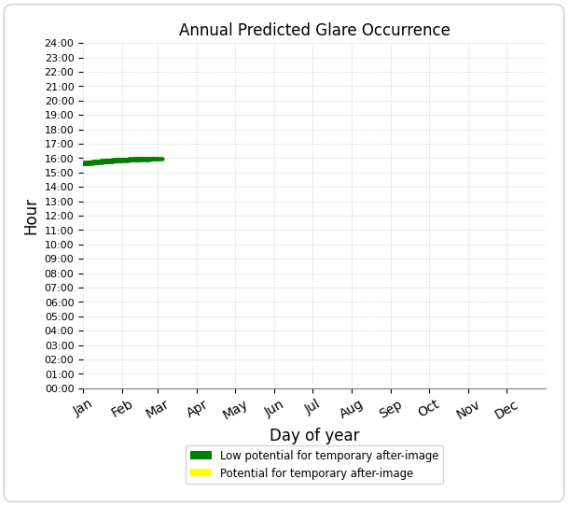


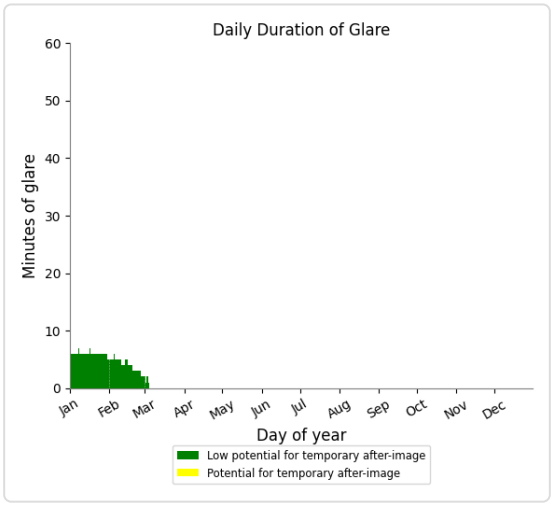


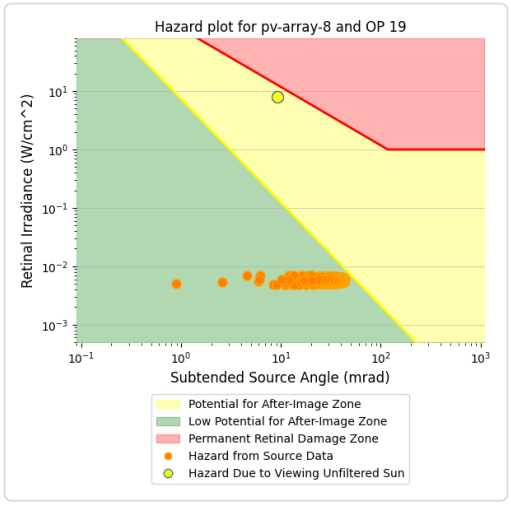
PV array 8 and OP 19

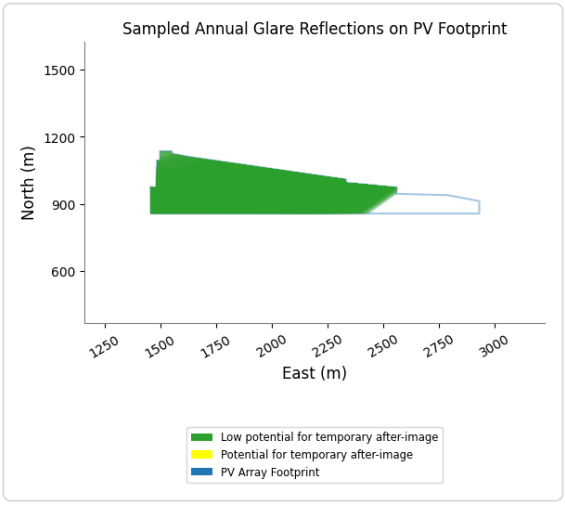
Yellow glare: none

Green glare: 306 min.





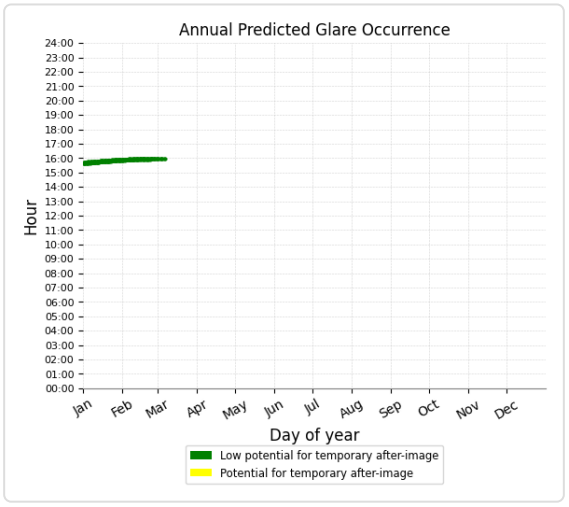


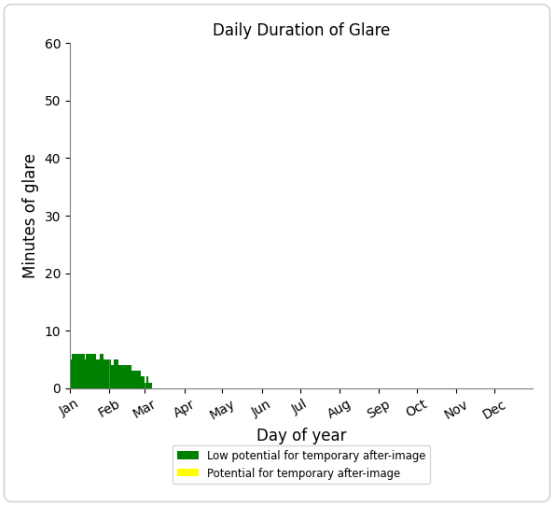


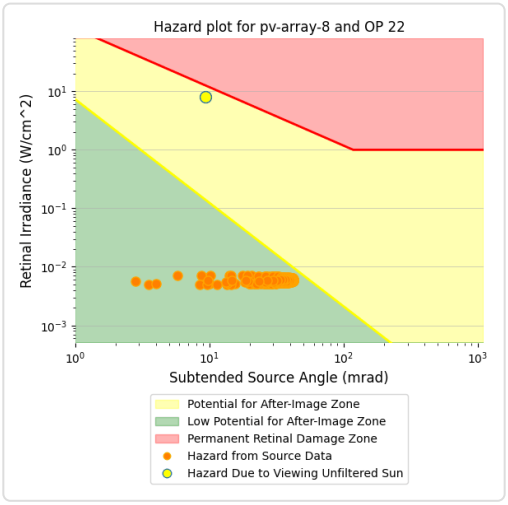
PV array 8 and OP 22

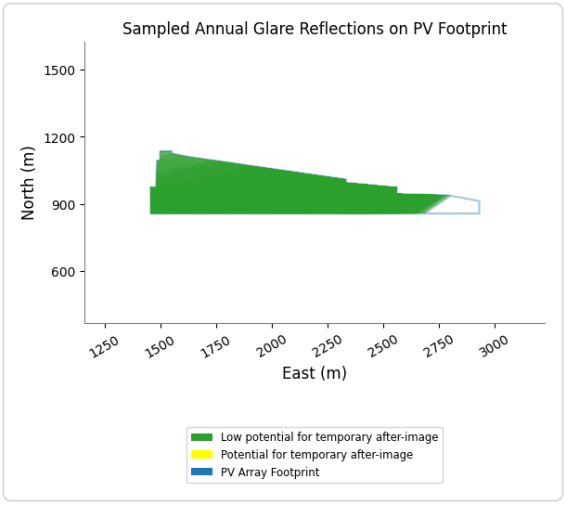
Yellow glare: none

Green glare: 288 min.





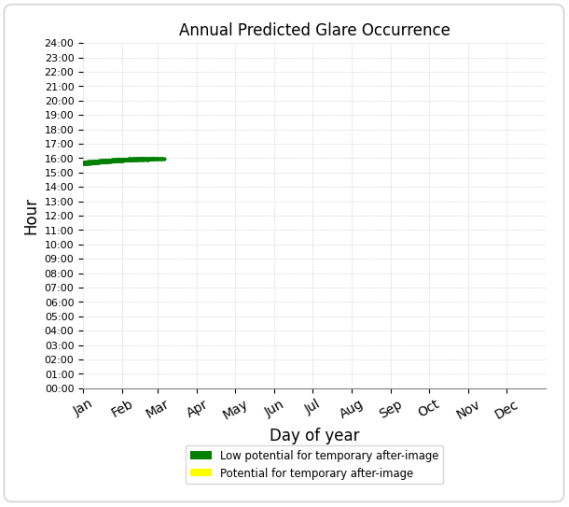


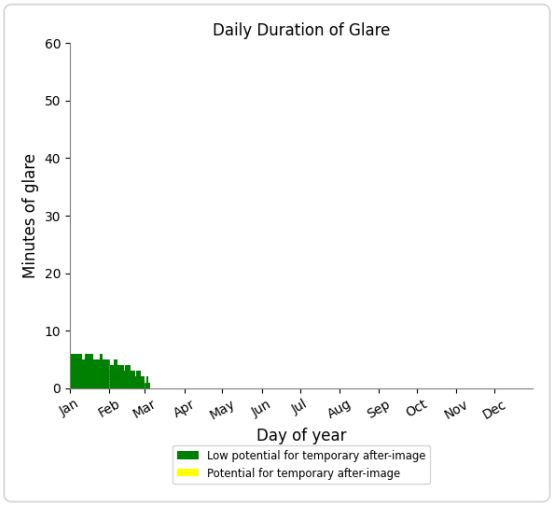


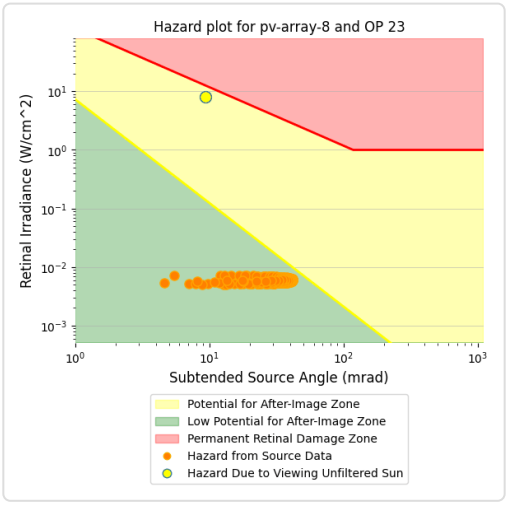
PV array 8 and OP 23

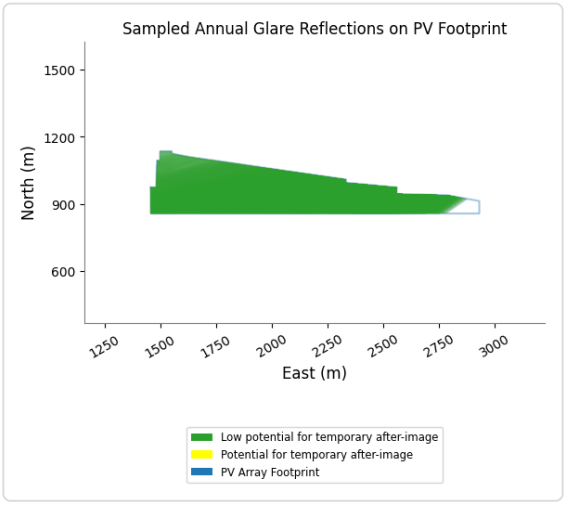
Yellow glare: none

Green glare: 280 min.





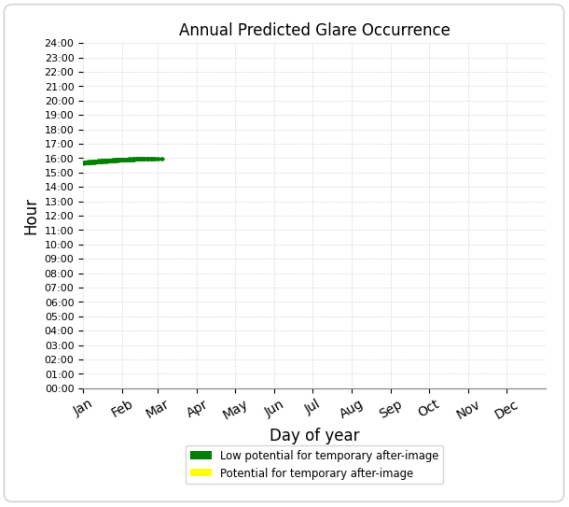


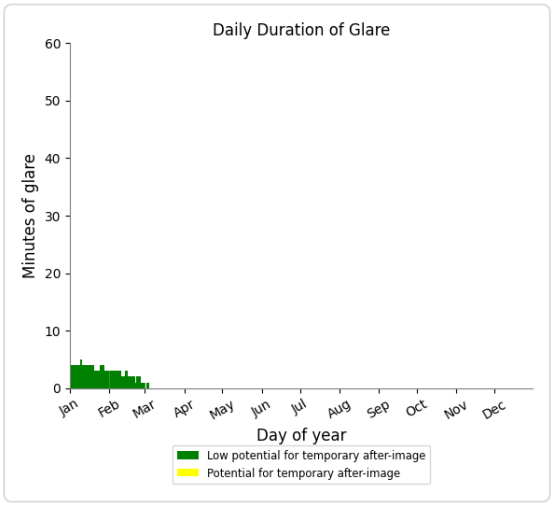


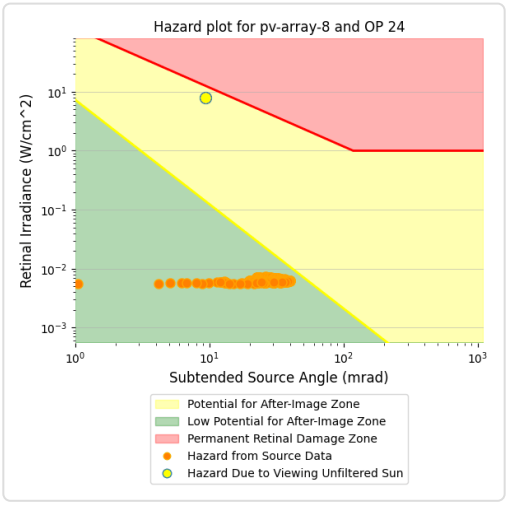
PV array 8 and OP 24

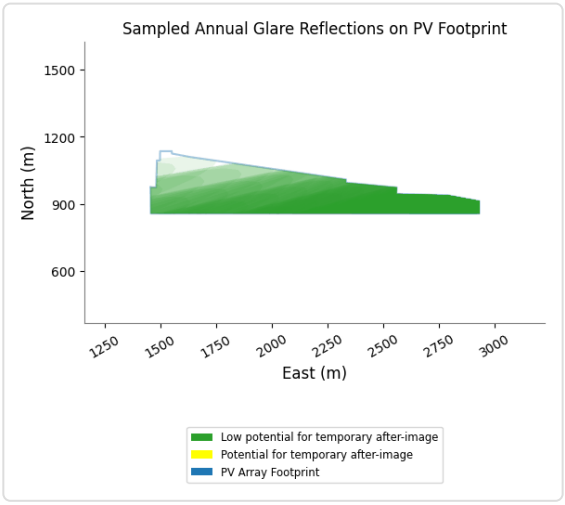
Yellow glare: none

Green glare: 185 min.



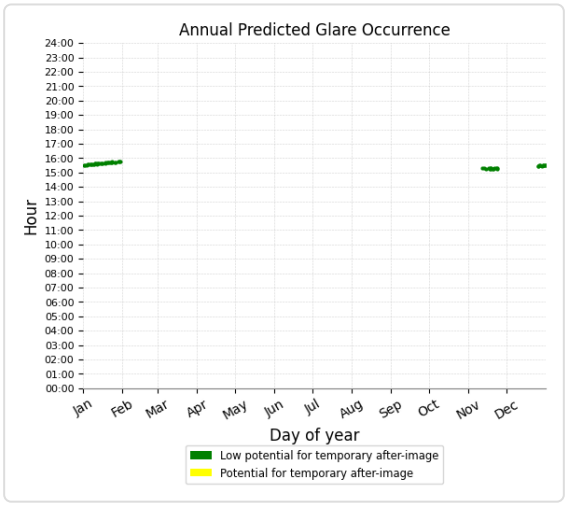


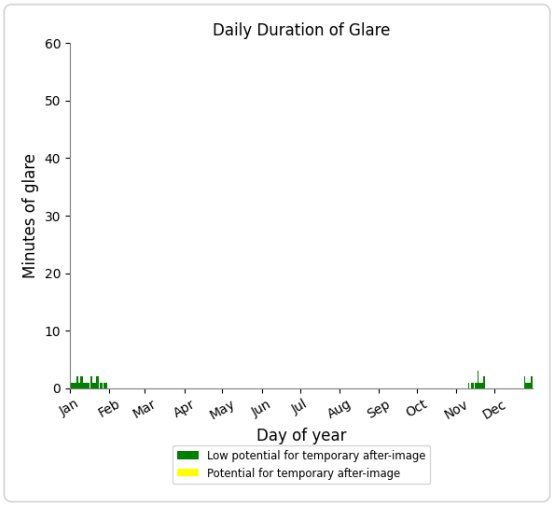


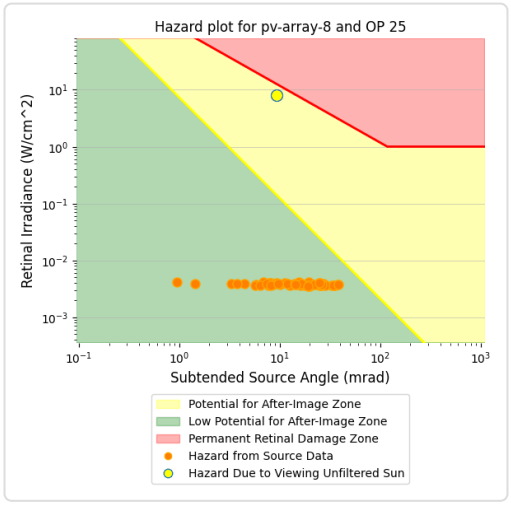


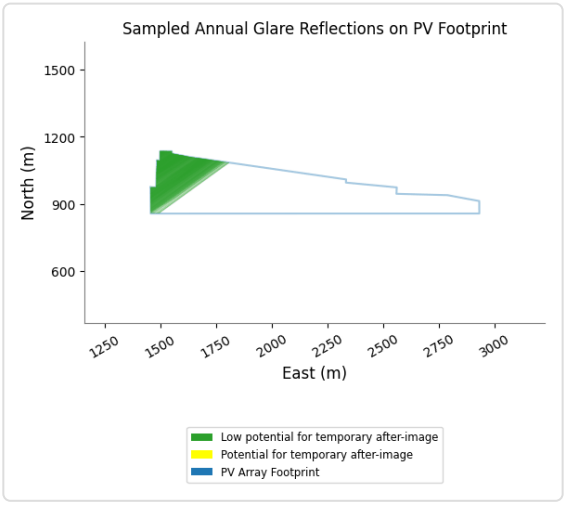
PV array 8 and OP 25

Yellow glare: none
Green glare: 57 min.









PV array 8 and OP 1

No glare found

PV array 8 and OP 2

No glare found

PV array 8 and OP 3

No glare found

PV array 8 and OP 4

No glare found

PV array 8 and OP 5

No glare found

PV array 8 and OP 6

No glare found

PV array 8 and OP 7

No glare found

PV array 8 and OP 8

No glare found

PV array 8 and OP 20

No glare found

PV array 8 and OP 21

No glare found

PV array 8 and OP 26

No glare found

PV array 8 and OP 27

No glare found

PV array 8 and OP 28

No glare found

PV array 8 and OP 29

No glare found

PV array 8 and OP 30

No glare found

PV array 8 and OP 31

No glare found

PV array 8 and OP 32

No glare found

PV array 8 and OP 33

No glare found

PV: PV array 9 no glare found

Receptor results ordered by category of glare

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

PV array 9 and Route: Avenue Road

No glare found

PV array 9 and Route: Main Camp Road

No glare found

PV array 9 and OP 1

No glare found

PV array 9 and OP 2

No glare found

PV array 9 and OP 3

No glare found

PV array 9 and OP 4

No glare found

PV array 9 and OP 5

No glare found

PV array 9 and OP 6

No glare found

PV array 9 and OP 7

No glare found

PV array 9 and OP 8

No glare found

PV array 9 and OP 9

No glare found

PV array 9 and OP 10

No glare found

PV array 9 and OP 11

No glare found

PV array 9 and OP 12

No glare found

PV array 9 and OP 13

No glare found

PV array 9 and OP 14

No glare found

PV array 9 and OP 15

No glare found

PV array 9 and OP 16

No glare found

PV array 9 and OP 17

No glare found

PV array 9 and OP 18

No glare found

PV array 9 and OP 19

No glare found

PV array 9 and OP 20

No glare found

PV array 9 and OP 21

No glare found

PV array 9 and OP 22

No glare found

PV array 9 and OP 23

No glare found

PV array 9 and OP 24

No glare found

PV array 9 and OP 25

No glare found

PV array 9 and OP 26

No glare found

PV array 9 and OP 27

No glare found

PV array 9 and OP 28

No glare found

PV array 9 and OP 29

No glare found

PV array 9 and OP 30

No glare found

PV array 9 and OP 31

No glare found

PV array 9 and OP 32

No glare found

PV array 9 and OP 33

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.
Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.
Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.
The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.
The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.
The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.
The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
Refer to the Help page at **www.forgesolar.com/help/** for assumptions and limitations not listed here.

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

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

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Glint and Glare Assessment Results Attachment B - Scenario 3

FORGESOLAR GLARE ANALYSIS

Project: **2320 Richmond Valley Solar Farm**
Site configuration: **2320 Richmond Valley 22d Resting Angle 20231211**

Created 11 Dec, 2023
Updated 18 Dec, 2023
Time-step 1 minute
Timezone offset UTC10
Minimum sun altitude 0.0 deg
DNI peaks at 1,000.0 W/m^2
Category 100 MW to 1 GW
Site ID 107579.18000

Ocular transmission coefficient 0.5
Pupil diameter 0.002 m
Eye focal length 0.017 m
Sun subtended angle 9.3 mrad
PV analysis methodology V2

Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	25,115	418.6	10,250	170.8	-
PV array 15	SA tracking	SA tracking	584	9.7	127	2.1	-
PV array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 19	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 23	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 8	SA tracking	SA tracking	4,334	72.2	19	0.3	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	16,829	280.5	10,269	171.2

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	838	14.0	127	2.1
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	261	4.3	0	0.0
OP 10	57	0.9	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	148	2.5	0	0.0
OP 16	488	8.1	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 20	0	0.0	0	0.0
OP 21	297	5.0	0	0.0
OP 22	290	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	55	0.9	0	0.0
OP 26	1,941	32.4	0	0.0
OP 27	1,708	28.5	0	0.0
OP 28	1,651	27.5	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	3,299	55.0	0	0.0

Component Data

PV Arrays

Name: PV array 1
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.101325	153.019581	366.24	2.50	368.74
2	-29.101319	153.022208	373.42	2.50	375.92
3	-29.101675	153.022244	322.35	2.50	324.85
4	-29.101686	153.024706	312.51	2.50	315.01
5	-29.102036	153.024742	303.12	2.50	305.62
6	-29.102033	153.026689	299.33	2.50	301.83
7	-29.102411	153.026725	328.19	2.50	330.69
8	-29.102419	153.028128	322.49	2.50	324.99
9	-29.103497	153.028139	354.56	2.50	357.06
10	-29.103500	153.028281	326.46	2.50	328.96
11	-29.104558	153.028281	314.31	2.50	316.81
12	-29.104567	153.026794	364.57	2.50	367.07
13	-29.104200	153.026775	369.06	2.50	371.56
14	-29.104211	153.025361	350.76	2.50	353.26
15	-29.103472	153.025344	337.49	2.50	339.99
16	-29.103472	153.019586	354.43	2.50	356.93

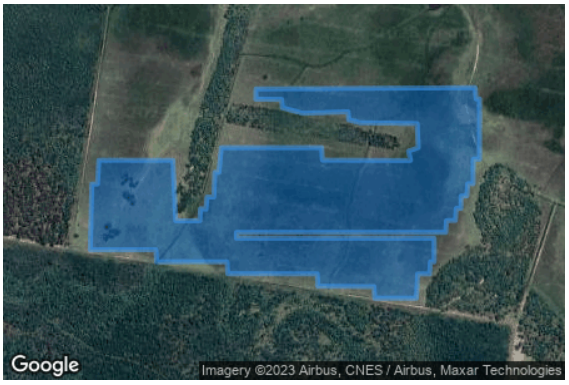
Name: PV array 10
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096789	153.033475	67.12	2.50	69.62
2	-29.096789	153.033625	94.58	2.50	97.08
3	-29.096086	153.033664	83.67	2.50	86.17
4	-29.096069	153.048192	86.35	2.50	88.85
5	-29.096428	153.048178	86.17	2.50	88.67
6	-29.096431	153.047381	77.50	2.50	80.00
7	-29.096778	153.047358	70.21	2.50	72.71
8	-29.096778	153.046492	64.01	2.50	66.51
9	-29.097136	153.046467	57.37	2.50	59.87
10	-29.097136	153.045553	58.92	2.50	61.42
11	-29.097508	153.045553	44.73	2.50	47.23
12	-29.097514	153.044489	51.53	2.50	54.03
13	-29.097786	153.044467	54.99	2.50	57.49
14	-29.097864	153.043553	60.25	2.50	62.75
15	-29.098228	153.043531	57.21	2.50	59.71
16	-29.098236	153.041514	58.17	2.50	60.67
17	-29.098608	153.041486	51.15	2.50	53.65
18	-29.098619	153.033442	60.48	2.50	62.98

Name: PV array 15
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

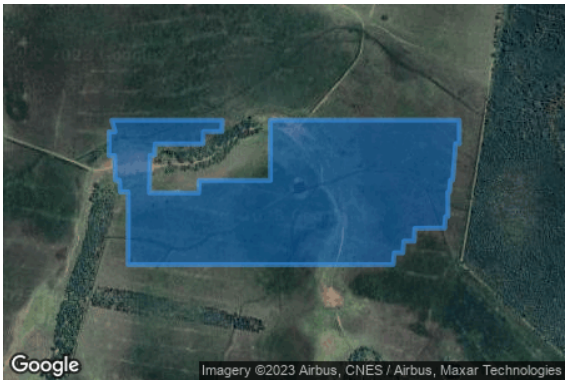
Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102156	153.044086	58.73	2.50	61.23
2	-29.102156	153.047328	63.32	2.50	65.82
3	-29.102194	153.047328	95.21	2.50	97.71
4	-29.102194	153.058594	119.73	2.50	122.23
5	-29.102550	153.058617	84.51	2.50	87.01
6	-29.102550	153.058697	82.32	2.50	84.82
7	-29.103253	153.058700	86.95	2.50	89.45
8	-29.103253	153.058464	98.42	2.50	100.92
9	-29.103636	153.058431	85.79	2.50	88.29
10	-29.103636	153.058125	71.39	2.50	73.89
11	-29.104347	153.058089	63.19	2.50	65.69
12	-29.104347	153.057872	68.64	2.50	71.14
13	-29.105078	153.057872	75.02	2.50	77.52
14	-29.105080	153.057786	73.92	2.50	76.42
15	-29.105431	153.057761	95.27	2.50	97.77
16	-29.105431	153.057622	95.06	2.50	97.56
17	-29.106164	153.057597	96.25	2.50	98.75
18	-29.106167	153.057461	85.20	2.50	87.70
19	-29.106514	153.057433	78.67	2.50	81.17
20	-29.106514	153.057292	76.66	2.50	79.16
21	-29.107410	153.057270	69.71	2.50	72.21
22	-29.107410	153.057190	70.70	2.50	73.20
23	-29.107760	153.057150	76.15	2.50	78.65
24	-29.107770	153.056900	69.23	2.50	71.73
25	-29.108870	153.056840	63.91	2.50	66.41
26	-29.108840	153.054250	69.03	2.50	71.53
27	-29.106690	153.054260	67.10	2.50	69.60
28	-29.106700	153.054510	61.84	2.50	64.34
29	-29.105460	153.054540	51.44	2.50	53.94
30	-29.105460	153.054670	46.48	2.50	48.98
31	-29.103650	153.054660	44.11	2.50	46.61
32	-29.103650	153.053990	50.89	2.50	53.39
33	-29.103260	153.053990	55.01	2.50	57.51
34	-29.103260	153.051930	50.62	2.50	53.12
35	-29.102900	153.051890	64.22	2.50	66.72
36	-29.102900	153.046260	78.81	2.50	81.31
37	-29.102530	153.046260	69.88	2.50	72.38
38	-29.102531	153.044111	81.44	2.50	83.94

Name: PV array 16
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109583	153.053697	35.88	2.50	38.38
2	-29.109580	153.053892	35.82	2.50	38.32
3	-29.108872	153.053936	34.22	2.50	36.72
4	-29.108872	153.056486	35.80	2.50	38.30
5	-29.110681	153.056581	33.60	2.50	36.10
6	-29.110680	153.057408	33.51	2.50	36.01
7	-29.110322	153.057431	33.12	2.50	35.62
8	-29.110333	153.057622	33.65	2.50	36.15
9	-29.109972	153.057656	34.81	2.50	37.31
10	-29.109969	153.057892	35.48	2.50	37.98
11	-29.109233	153.057922	37.27	2.50	39.77
12	-29.109230	153.058064	37.55	2.50	40.05
13	-29.108494	153.058144	37.24	2.50	39.74
14	-29.108494	153.061594	35.21	2.50	37.71
15	-29.108867	153.061622	34.11	2.50	36.61
16	-29.108875	153.064650	30.58	2.50	33.08
17	-29.108597	153.064578	31.08	2.50	33.58
18	-29.108494	153.064914	30.76	2.50	33.26
19	-29.107772	153.064875	32.09	2.50	34.59
20	-29.107750	153.062925	30.39	2.50	32.89
21	-29.107664	153.062525	32.23	2.50	34.73
22	-29.107419	153.062503	32.17	2.50	34.67
23	-29.107467	153.060950	34.16	2.50	36.66
24	-29.107297	153.060244	33.94	2.50	36.44
25	-29.107050	153.060219	33.92	2.50	36.42
26	-29.107044	153.059328	34.04	2.50	36.54
27	-29.106736	153.059336	34.04	2.50	36.54
28	-29.106700	153.066869	31.79	2.50	34.29
29	-29.107036	153.066903	31.47	2.50	33.97
30	-29.107036	153.067019	31.60	2.50	34.10
31	-29.108842	153.067022	33.82	2.50	36.32
32	-29.108842	153.066803	33.30	2.50	35.80
33	-29.109572	153.066800	34.25	2.50	36.75
34	-29.109570	153.066614	33.70	2.50	36.20
35	-29.109936	153.066586	34.18	2.50	36.68
36	-29.109940	153.066383	33.57	2.50	36.07
37	-29.110311	153.066380	34.11	2.50	36.61
38	-29.110310	153.066217	33.64	2.50	36.14
39	-29.110669	153.066192	34.08	2.50	36.58
40	-29.110675	153.065881	33.18	2.50	35.68
41	-29.111028	153.065858	33.66	2.50	36.16
42	-29.111028	153.058667	34.00	2.50	36.50
43	-29.111203	153.058667	34.00	2.50	36.50
44	-29.111203	153.065461	33.51	2.50	36.01
45	-29.111908	153.065461	35.73	2.50	38.23
46	-29.111908	153.065331	35.54	2.50	38.04
47	-29.112269	153.065303	35.50	2.50	38.00
48	-29.112270	153.064894	35.16	2.50	37.66
49	-29.112997	153.064853	35.92	2.50	38.42
50	-29.112997	153.063419	33.64	2.50	36.14
51	-29.112650	153.063394	34.07	2.50	36.57
52	-29.112639	153.061467	31.62	2.50	34.12
53	-29.112269	153.061444	32.22	2.50	34.72
54	-29.112264	153.058369	34.15	2.50	36.65
55	-29.111908	153.058342	34.08	2.50	36.58
56	-29.111908	153.055928	33.83	2.50	36.33
57	-29.111547	153.055900	33.61	2.50	36.11
58	-29.111550	153.053644	40.15	2.50	42.65

Name: PV array 17
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102197	153.059017	39.95	2.50	42.45
2	-29.102194	153.062817	37.76	2.50	40.26
3	-29.102533	153.062803	35.96	2.50	38.46
4	-29.102539	153.062167	38.22	2.50	40.72
5	-29.102906	153.062150	38.04	2.50	40.54
6	-29.102910	153.060506	39.98	2.50	42.48
7	-29.103247	153.060483	38.09	2.50	40.59
8	-29.103253	153.060331	35.83	2.50	38.33
9	-29.104367	153.060311	35.23	2.50	37.73
10	-29.104375	153.062003	35.00	2.50	37.50
11	-29.103994	153.062019	35.26	2.50	37.76
12	-29.104000	153.064469	35.33	2.50	37.83
13	-29.102194	153.064467	41.33	2.50	43.83
14	-29.102194	153.070958	35.53	2.50	38.03
15	-29.102900	153.070964	31.99	2.50	34.49
16	-29.102900	153.070833	34.31	2.50	36.81
17	-29.103986	153.070736	38.09	2.50	40.59
18	-29.103992	153.070656	36.86	2.50	39.36
19	-29.104342	153.070622	35.58	2.50	38.08
20	-29.104344	153.070567	35.32	2.50	37.82
21	-29.105078	153.070575	39.57	2.50	42.07
22	-29.105080	153.070486	39.78	2.50	42.28
23	-29.105425	153.070458	37.46	2.50	39.96
24	-29.105431	153.069433	34.45	2.50	36.95
25	-29.105819	153.069408	43.72	2.50	46.22
26	-29.105819	153.069053	44.69	2.50	47.19
27	-29.106167	153.069022	39.39	2.50	41.89
28	-29.106167	153.068725	33.07	2.50	35.57
29	-29.106519	153.068689	38.03	2.50	40.53
30	-29.106520	153.059578	36.08	2.50	38.58
31	-29.104344	153.059583	36.72	2.50	39.22
32	-29.104347	153.059308	37.07	2.50	39.57
33	-29.103989	153.059278	37.85	2.50	40.35
34	-29.103989	153.059139	38.21	2.50	40.71
35	-29.103253	153.059111	40.68	2.50	43.18
36	-29.103253	153.058922	39.83	2.50	42.33
37	-29.102544	153.058922	38.08	2.50	40.58
38	-29.102544	153.059133	37.66	2.50	40.16

Name: PV array 18
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109586	153.069572	30.93	2.50	33.43
2	-29.109592	153.071361	29.24	2.50	31.74
3	-29.109972	153.071386	29.96	2.50	32.46
4	-29.109978	153.072467	30.00	2.50	32.50
5	-29.110311	153.072500	30.00	2.50	32.50
6	-29.110319	153.073303	31.15	2.50	33.65
7	-29.110672	153.073361	30.64	2.50	33.14
8	-29.112108	153.073353	28.68	2.50	31.18
9	-29.112119	153.072439	30.64	2.50	33.14
10	-29.112300	153.072442	30.87	2.50	33.37
11	-29.112300	153.074256	29.00	2.50	31.50
12	-29.112653	153.074275	29.74	2.50	32.24
13	-29.112661	153.074633	29.77	2.50	32.27
14	-29.113006	153.074628	30.79	2.50	33.29
15	-29.113006	153.076522	29.89	2.50	32.39
16	-29.112797	153.076511	29.59	2.50	32.09
17	-29.112797	153.078297	26.43	2.50	28.93
18	-29.113372	153.078353	27.13	2.50	29.63
19	-29.114981	153.078347	29.88	2.50	32.38
20	-29.114969	153.078094	29.97	2.50	32.47
21	-29.115317	153.078075	30.26	2.50	32.76
22	-29.115320	153.076460	34.27	2.50	36.77
23	-29.115528	153.076456	33.21	2.50	35.71
24	-29.115525	153.070742	31.94	2.50	34.44
25	-29.114467	153.070742	30.74	2.50	33.24
26	-29.114467	153.070797	30.48	2.50	32.98
27	-29.113725	153.070797	30.05	2.50	32.55
28	-29.113725	153.070239	31.57	2.50	34.07
29	-29.113350	153.070219	31.26	2.50	33.76
30	-29.113350	153.070125	31.37	2.50	33.87
31	-29.113000	153.070100	31.06	2.50	33.56
32	-29.113000	153.069572	31.53	2.50	34.03

Name: PV array 19
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.095008	153.049878	30.65	2.50	33.15
2	-29.095006	153.067636	55.88	2.50	58.38
3	-29.095361	153.067678	52.05	2.50	54.55
4	-29.095372	153.070639	54.94	2.50	57.44
5	-29.095722	153.070672	51.58	2.50	54.08
6	-29.095733	153.071469	49.76	2.50	52.26
7	-29.097678	153.071458	43.37	2.50	45.87
8	-29.097692	153.071583	43.76	2.50	46.26
9	-29.099842	153.071569	35.11	2.50	37.61
10	-29.099842	153.071353	33.97	2.50	36.47
11	-29.100928	153.071347	33.60	2.50	36.10
12	-29.100928	153.071208	33.60	2.50	36.10
13	-29.101667	153.071186	35.03	2.50	37.53
14	-29.101658	153.071047	35.08	2.50	37.58
15	-29.102022	153.071031	35.02	2.50	37.52
16	-29.102020	153.047342	32.77	2.50	35.27
17	-29.102114	153.047336	32.68	2.50	35.18
18	-29.102111	153.044069	34.04	2.50	36.54
19	-29.102019	153.044086	34.00	2.50	36.50
20	-29.102014	153.039336	38.65	2.50	41.15
21	-29.099867	153.039331	37.84	2.50	40.34
22	-29.099861	153.040528	36.06	2.50	38.56
23	-29.099494	153.040547	35.30	2.50	37.80
24	-29.099494	153.043892	32.13	2.50	34.63
25	-29.100950	153.043914	33.56	2.50	36.06
26	-29.100958	153.045236	34.06	2.50	36.56
27	-29.100580	153.045280	34.35	2.50	36.85
28	-29.100570	153.046140	33.76	2.50	36.26
29	-29.100220	153.046170	35.46	2.50	37.96
30	-29.100220	153.046440	35.17	2.50	37.67
31	-29.100570	153.046470	33.65	2.50	36.15
32	-29.100570	153.046810	33.54	2.50	36.04
33	-29.100220	153.046830	34.76	2.50	37.26
34	-29.100220	153.048570	34.30	2.50	36.80
35	-29.099860	153.048580	34.26	2.50	36.76
36	-29.099860	153.055040	30.23	2.50	32.73
37	-29.097520	153.055040	29.19	2.50	31.69
38	-29.097508	153.049244	29.61	2.50	32.11
39	-29.096461	153.049253	28.44	2.50	30.94

Name: PV array 2
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103011	153.028981	45.87	2.50	48.37
2	-29.103033	153.031867	42.45	2.50	44.95
3	-29.105117	153.031872	39.58	2.50	42.08
4	-29.105139	153.029231	43.48	2.50	45.98
5	-29.104064	153.029211	43.73	2.50	46.23
6	-29.104044	153.028956	41.58	2.50	44.08

Name: PV array 20
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.097756	153.046586	30.04	2.50	32.54
2	-29.097722	153.046661	30.51	2.50	33.01
3	-29.097722	153.050819	31.18	2.50	33.68
4	-29.098397	153.050817	30.55	2.50	33.05
5	-29.098400	153.050675	29.78	2.50	32.28
6	-29.098433	153.050681	29.76	2.50	32.26
7	-29.098430	153.049186	29.93	2.50	32.43
8	-29.098747	153.049158	31.20	2.50	33.70
9	-29.098744	153.049008	30.31	2.50	32.81
10	-29.098781	153.048992	30.37	2.50	32.87
11	-29.098789	153.045769	30.60	2.50	33.10
12	-29.098081	153.045769	31.10	2.50	33.60
13	-29.098089	153.046567	32.80	2.50	35.30

Name: PV array 21
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.119964	153.067553	34.62	2.50	37.12
2	-29.119931	153.071286	34.59	2.50	37.09
3	-29.120281	153.071325	33.95	2.50	36.45
4	-29.120344	153.073556	31.66	2.50	34.16
5	-29.120458	153.073553	31.39	2.50	33.89
6	-29.120464	153.075878	34.40	2.50	36.90
7	-29.120114	153.075856	33.35	2.50	35.85
8	-29.120114	153.078875	29.83	2.50	32.33
9	-29.120853	153.078881	29.81	2.50	32.31
10	-29.120853	153.078372	29.48	2.50	31.98
11	-29.121589	153.078375	30.72	2.50	33.22
12	-29.121597	153.077969	30.34	2.50	32.84
13	-29.121947	153.077806	30.38	2.50	32.88
14	-29.121947	153.077344	29.07	2.50	31.57
15	-29.122303	153.077336	29.04	2.50	31.54
16	-29.122294	153.075361	32.04	2.50	34.54
17	-29.121594	153.075361	34.77	2.50	37.27
18	-29.121586	153.073336	29.42	2.50	31.92
19	-29.121239	153.073328	29.58	2.50	32.08
20	-29.121294	153.070856	32.46	2.50	34.96
21	-29.121714	153.070683	31.91	2.50	34.41
22	-29.121714	153.070081	32.74	2.50	35.24
23	-29.122067	153.069833	32.73	2.50	35.23
24	-29.122103	153.067342	29.46	2.50	31.96
25	-29.121022	153.067347	32.75	2.50	35.25
26	-29.121022	153.067553	32.13	2.50	34.63

Name: PV array 22
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.114775	153.080247	54.75	2.50	57.25
2	-29.114775	153.080583	53.92	2.50	56.42
3	-29.115122	153.080614	56.19	2.50	58.69
4	-29.115125	153.080961	59.96	2.50	62.46
5	-29.115822	153.080961	55.06	2.50	57.56
6	-29.115822	153.080836	49.55	2.50	52.05
7	-29.116564	153.080797	49.76	2.50	52.26
8	-29.116564	153.080217	46.19	2.50	48.69
9	-29.116928	153.080192	43.83	2.50	46.33
10	-29.116928	153.079286	43.59	2.50	46.09
11	-29.117444	153.079256	45.43	2.50	47.93
12	-29.117444	153.078672	40.64	2.50	43.14
13	-29.117797	153.078642	41.60	2.50	44.10
14	-29.117797	153.078194	41.85	2.50	44.35
15	-29.117103	153.078194	41.39	2.50	43.89
16	-29.117103	153.078386	41.00	2.50	43.50
17	-29.116203	153.078425	51.19	2.50	53.69
18	-29.116208	153.078614	48.69	2.50	51.19
19	-29.115853	153.078644	55.75	2.50	58.25
20	-29.115853	153.079003	60.58	2.50	63.08
21	-29.115475	153.079028	56.40	2.50	58.90
22	-29.115481	153.079553	48.27	2.50	50.77
23	-29.115125	153.079589	49.11	2.50	51.61
24	-29.115128	153.080219	57.49	2.50	59.99

Name: PV array 23
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.115711	153.068300	41.50	2.50	44.00
2	-29.115708	153.077564	41.51	2.50	44.01
3	-29.116775	153.077617	41.78	2.50	44.28
4	-29.116775	153.077372	41.72	2.50	44.22
5	-29.117500	153.077344	41.23	2.50	43.73
6	-29.117500	153.077214	40.70	2.50	43.20
7	-29.117853	153.077178	40.00	2.50	42.50
8	-29.117858	153.077039	40.44	2.50	42.94
9	-29.118383	153.077014	41.50	2.50	44.00
10	-29.118383	153.076644	41.18	2.50	43.68
11	-29.118739	153.076631	40.28	2.50	42.78
12	-29.118739	153.075653	39.12	2.50	41.62
13	-29.119083	153.075622	38.34	2.50	40.84
14	-29.119083	153.072625	39.10	2.50	41.60
15	-29.118736	153.072594	40.48	2.50	42.98
16	-29.118736	153.068858	40.41	2.50	42.91
17	-29.118383	153.068831	42.05	2.50	44.55
18	-29.118383	153.067967	42.40	2.50	44.90
19	-29.116806	153.067970	42.22	2.50	44.72
20	-29.116810	153.068106	42.02	2.50	44.52
21	-29.116053	153.068131	41.65	2.50	44.15
22	-29.116050	153.068272	42.27	2.50	44.77

Name: PV array 3
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103158	153.033744	37.67	2.50	40.17
2	-29.103161	153.034311	44.09	2.50	46.59
3	-29.103506	153.034347	49.91	2.50	52.41
4	-29.103506	153.035361	50.39	2.50	52.89
5	-29.103864	153.035389	48.02	2.50	50.52
6	-29.103864	153.035694	46.05	2.50	48.55
7	-29.104236	153.035733	43.39	2.50	45.89
8	-29.104242	153.036075	41.79	2.50	44.29
9	-29.105681	153.036081	43.07	2.50	45.57
10	-29.105678	153.035300	40.37	2.50	42.87
11	-29.105300	153.035261	38.35	2.50	40.85
12	-29.105300	153.033747	38.15	2.50	40.65

Name: PV array 4
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.100956	153.029697	61.70	2.50	64.20
2	-29.100960	153.033861	52.05	2.50	54.55
3	-29.102319	153.033872	41.22	2.50	43.72
4	-29.102206	153.029711	55.91	2.50	58.41

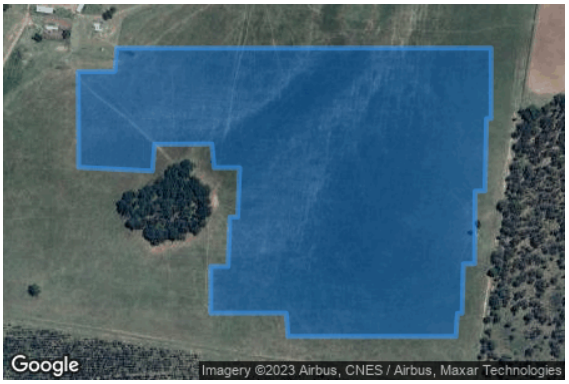
Name: PV array 5
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096244	153.020017	63.68	2.50	66.18
2	-29.096258	153.021258	58.95	2.50	61.45
3	-29.096144	153.021281	58.13	2.50	60.63
4	-29.096142	153.022628	52.57	2.50	55.07
5	-29.096497	153.022653	51.62	2.50	54.12
6	-29.096506	153.025769	53.56	2.50	56.06
7	-29.096856	153.025817	52.73	2.50	55.23
8	-29.096858	153.026111	52.97	2.50	55.47
9	-29.097494	153.026317	52.15	2.50	54.65
10	-29.097789	153.027056	53.44	2.50	55.94
11	-29.098275	153.027050	51.11	2.50	53.61
12	-29.098319	153.019792	51.02	2.50	53.52
13	-29.098064	153.019775	50.99	2.50	53.49
14	-29.097667	153.020156	52.49	2.50	54.99
15	-29.097636	153.020281	52.49	2.50	54.99
16	-29.096947	153.020283	54.63	2.50	57.13
17	-29.096931	153.020225	54.40	2.50	56.90
18	-29.096930	153.020225	52.63	2.50	55.13
19	-29.096930	153.020225	56.59	2.50	59.09

Name: PV array 6
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.098411	153.019708	52.49	2.50	54.99
2	-29.098410	153.022644	54.27	2.50	56.77
3	-29.098453	153.022644	54.17	2.50	56.67
4	-29.098453	153.025644	52.52	2.50	55.02
5	-29.098406	153.025644	52.52	2.50	55.02
6	-29.098410	153.026583	50.97	2.50	53.47
7	-29.098456	153.026583	50.96	2.50	53.46
8	-29.098460	153.028092	50.98	2.50	53.48
9	-29.098806	153.028111	49.50	2.50	52.00
10	-29.098814	153.028110	49.50	2.50	52.00
11	-29.100568	153.028106	43.03	2.50	45.53
12	-29.100578	153.028090	43.04	2.50	45.54
13	-29.100586	153.028083	43.04	2.50	45.54
14	-29.100586	153.024706	46.96	2.50	49.46
15	-29.100236	153.024675	47.84	2.50	50.34
16	-29.100236	153.024317	47.76	2.50	50.26
17	-29.099511	153.024286	51.07	2.50	53.57
18	-29.099503	153.021261	52.06	2.50	54.56
19	-29.099153	153.021256	51.64	2.50	54.14
20	-29.099147	153.019714	53.21	2.50	55.71

Name: PV array 7
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102553	153.036561	61.89	2.50	64.39
2	-29.102550	153.037192	57.69	2.50	60.19
3	-29.102203	153.037222	56.56	2.50	59.06
4	-29.102200	153.043656	57.79	2.50	60.29
5	-29.103258	153.043656	59.96	2.50	62.46
6	-29.103258	153.043578	60.09	2.50	62.59
7	-29.104339	153.043550	61.32	2.50	63.82
8	-29.104344	153.043381	63.82	2.50	66.32
9	-29.105428	153.043375	64.55	2.50	67.05
10	-29.105430	153.043181	65.16	2.50	67.66
11	-29.106169	153.043158	66.84	2.50	69.34
12	-29.106170	153.043078	69.07	2.50	71.57
13	-29.106517	153.043053	71.34	2.50	73.84
14	-29.106517	153.040167	72.19	2.50	74.69
15	-29.106167	153.040136	70.00	2.50	72.50
16	-29.106167	153.038839	69.02	2.50	71.52
17	-29.105467	153.038839	69.78	2.50	72.28
18	-29.105470	153.039136	74.83	2.50	77.33
19	-29.104728	153.039169	75.24	2.50	77.74
20	-29.104728	153.039303	72.87	2.50	75.37
21	-29.103992	153.039336	67.81	2.50	70.31
22	-29.103990	153.038897	63.04	2.50	65.54
23	-29.103636	153.038858	60.65	2.50	63.15
24	-29.103640	153.037875	61.34	2.50	63.84
25	-29.104042	153.037839	65.75	2.50	68.25
26	-29.103986	153.036569	63.73	2.50	66.23

Name: PV array 8
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.092536	153.034539	49.37	2.50	51.87
2	-29.092539	153.034797	46.57	2.50	49.07
3	-29.091453	153.034833	44.03	2.50	46.53
4	-29.091453	153.034972	42.10	2.50	44.60
5	-29.091078	153.034981	41.53	2.50	44.03
6	-29.091078	153.035514	38.85	2.50	41.35
7	-29.091175	153.035525	37.65	2.50	40.15
8	-29.091308	153.036322	36.36	2.50	38.86
9	-29.092222	153.043542	34.71	2.50	37.21
10	-29.092350	153.043533	33.71	2.50	36.21
11	-29.092544	153.045875	34.18	2.50	36.68
12	-29.092803	153.045858	35.67	2.50	38.17
13	-29.092858	153.048208	36.30	2.50	38.80
14	-29.093097	153.049672	36.65	2.50	39.15
15	-29.093600	153.049675	36.09	2.50	38.59
16	-29.093600	153.034550	36.90	2.50	39.40
17	-29.093600	153.034550	38.56	2.50	41.06
18	-29.093600	153.034550	40.09	2.50	42.59
19	-29.093600	153.034550	43.30	2.50	45.80
20	-29.093600	153.034550	46.85	2.50	49.35
21	-29.093600	153.034550	50.12	2.50	52.62
22	-29.093600	153.034550	50.80	2.50	53.30

Name: PV array 9
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 22.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.093742	153.034075	47.59	2.50	50.09
2	-29.093742	153.047911	29.17	2.50	31.67
3	-29.093636	153.047906	29.32	2.50	31.82
4	-29.093640	153.047924	29.32	2.50	31.82
5	-29.094433	153.049239	29.11	2.50	31.61
6	-29.094433	153.049097	29.00	2.50	31.50
7	-29.094797	153.049075	29.37	2.50	31.87
8	-29.094797	153.048883	29.37	2.50	31.87
9	-29.095178	153.048853	29.93	2.50	32.43
10	-29.095178	153.048714	29.93	2.50	32.43
11	-29.095531	153.048686	29.56	2.50	32.06
12	-29.095533	153.048492	29.56	2.50	32.06
13	-29.095894	153.048458	29.04	2.50	31.54
14	-29.095890	153.034044	50.01	2.50	52.51

Route Receptors

Name: Avenue Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.104310	153.008342	42.58	2.40	44.98
2	-29.100917	153.012869	48.57	2.40	50.97
3	-29.099510	153.019414	55.62	2.40	58.02
4	-29.101310	153.026194	44.13	2.40	46.53
5	-29.100501	153.029799	39.40	2.40	41.80
6	-29.100182	153.033833	38.23	2.40	40.63
7	-29.099919	153.034691	38.36	2.40	40.76
8	-29.099619	153.036214	38.31	2.40	40.71
9	-29.099788	153.037373	38.57	2.40	40.97
10	-29.098748	153.043470	32.00	2.40	34.40
11	-29.096820	153.048507	29.92	2.40	32.32
12	-29.092638	153.050803	31.00	2.40	33.40
13	-29.089901	153.051575	41.28	2.40	43.68
14	-29.088341	153.054683	47.04	2.40	49.44
15	-29.087047	153.056636	55.63	2.40	58.03
16	-29.086241	153.058610	59.01	2.40	61.41
17	-29.084685	153.059683	59.79	2.40	62.19

Name: Main Camp Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.130769	153.064031	35.05	2.40	37.45
2	-29.130881	153.067035	33.07	2.40	35.47
3	-29.130450	153.072142	26.52	2.40	28.92
4	-29.129644	153.084169	26.00	2.40	28.40

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (m)	Height (m)
OP 1	1	-29.098436	153.005919	57.00	1.50
OP 2	2	-29.098614	153.005617	58.18	1.50
OP 3	3	-29.098942	153.009817	58.46	1.50
OP 4	4	-29.104081	153.007164	43.97	1.50
OP 5	5	-29.105522	153.007317	42.09	1.50
OP 6	6	-29.104364	153.005417	45.19	1.50
OP 7	7	-29.105019	153.006536	45.10	1.50
OP 8	8	-29.117603	153.001347	38.65	1.50
OP 9	9	-29.083078	153.055558	73.37	1.50
OP 10	10	-29.076967	153.057103	64.26	1.50
OP 11	11	-29.080647	153.066289	49.73	1.50
OP 12	12	-29.083183	153.068906	49.76	1.50
OP 13	13	-29.080508	153.075694	58.03	1.50
OP 14	14	-29.072514	153.073319	58.38	1.50
OP 15	15	-29.079144	153.061150	62.76	1.50
OP 16	16	-29.084792	153.057350	64.28	1.50
OP 17	17	-29.087883	153.058739	46.82	1.50
OP 18	18	-29.081653	153.067194	53.77	1.50
OP 19	19	-29.085114	153.060258	60.28	1.50
OP 20	20	-29.090203	153.055103	40.01	1.50
OP 21	21	-29.106228	153.101144	34.31	1.50
OP 22	22	-29.084800	153.063742	69.22	1.50
OP 23	23	-29.084386	153.065572	66.41	1.50
OP 24	24	-29.084969	153.068331	50.01	1.50
OP 25	25	-29.081494	153.054019	74.64	1.50
OP 26	26	-29.131783	153.064194	34.19	1.50
OP 27	27	-29.132158	153.065619	34.34	1.50
OP 28	28	-29.131331	153.065711	36.18	1.50
OP 29	29	-29.138036	153.099008	43.00	1.50
OP 30	30	-29.134267	153.099875	41.44	1.50
OP 31	31	-29.138078	153.100536	38.27	1.50
OP 32	32	-29.132817	153.101467	42.08	1.50
OP 33	33	-29.134686	153.059939	31.67	1.50

Glare Analysis Results

Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	25,115	418.6	10,250	170.8	-
PV array 15	SA tracking	SA tracking	584	9.7	127	2.1	-
PV array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 19	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 23	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 8	SA tracking	SA tracking	4,334	72.2	19	0.3	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Avenue Road	16,829	280.5	10,269	171.2
Main Camp Road	838	14.0	127	2.1

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	261	4.3	0	0.0
OP 10	57	0.9	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	148	2.5	0	0.0
OP 16	488	8.1	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 20	0	0.0	0	0.0
OP 21	297	5.0	0	0.0
OP 22	290	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	55	0.9	0	0.0
OP 26	1,941	32.4	0	0.0
OP 27	1,708	28.5	0	0.0
OP 28	1,651	27.5	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	3,299	55.0	0	0.0

PV: PV array 1 no glare found

Receptor results ordered by category of glare

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

PV array 1 and Route: Avenue Road

No glare found

PV array 1 and Route: Main Camp Road

No glare found

PV array 1 and OP 1

No glare found

PV array 1 and OP 2

No glare found

PV array 1 and OP 3

No glare found

PV array 1 and OP 4

No glare found

PV array 1 and OP 5

No glare found

PV array 1 and OP 6

No glare found

PV array 1 and OP 7

No glare found

PV array 1 and OP 8

No glare found

PV array 1 and OP 9

No glare found

PV array 1 and OP 10

No glare found

PV array 1 and OP 11

No glare found

PV array 1 and OP 12

No glare found

PV array 1 and OP 13

No glare found

PV array 1 and OP 14

No glare found

PV array 1 and OP 15

No glare found

PV array 1 and OP 16

No glare found

PV array 1 and OP 17

No glare found

PV array 1 and OP 18

No glare found

PV array 1 and OP 19

No glare found

PV array 1 and OP 20

No glare found

PV array 1 and OP 21

No glare found

PV array 1 and OP 22

No glare found

PV array 1 and OP 23

No glare found

PV array 1 and OP 24

No glare found

PV array 1 and OP 25

No glare found

PV array 1 and OP 26

No glare found

PV array 1 and OP 27

No glare found

PV array 1 and OP 28

No glare found

PV array 1 and OP 29

No glare found

PV array 1 and OP 30

No glare found

PV array 1 and OP 31

No glare found

PV array 1 and OP 32

No glare found

PV array 1 and OP 33

No glare found

PV: PV array 10 potential temporary after-image

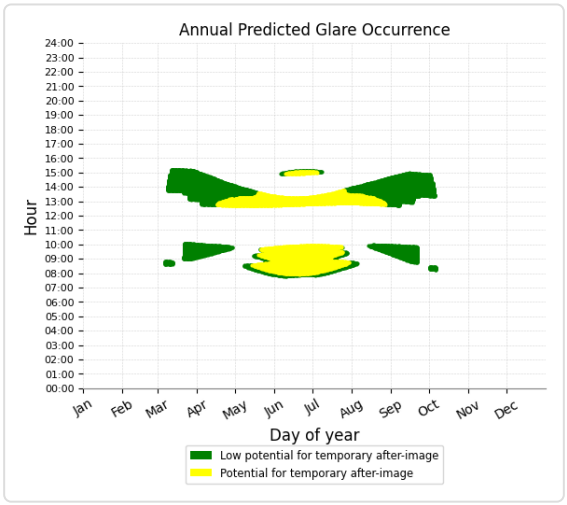
Receptor results ordered by category of glare

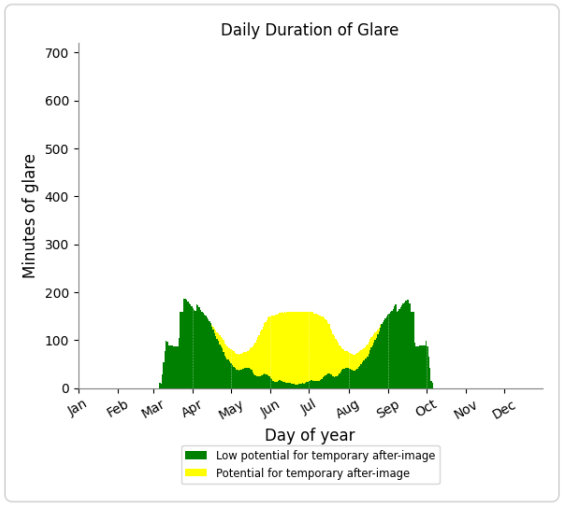
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	15,965	266.1	10,250	170.8
Main Camp Road	551	9.2	0	0.0
OP 26	1,941	32.4	0	0.0
OP 27	1,708	28.5	0	0.0
OP 28	1,651	27.5	0	0.0
OP 33	3,299	55.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0

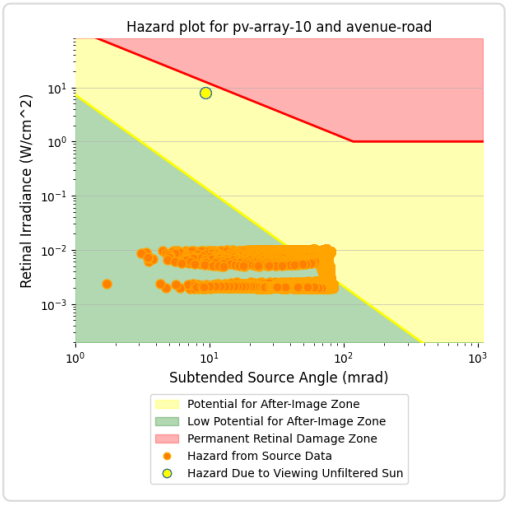
PV array 10 and Route: Avenue Road

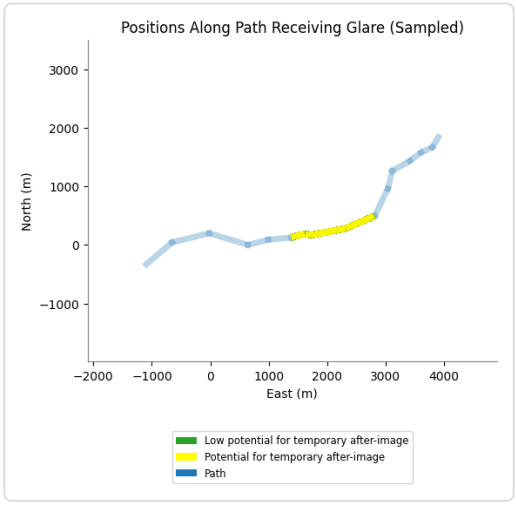
Yellow glare: 10,250 min.

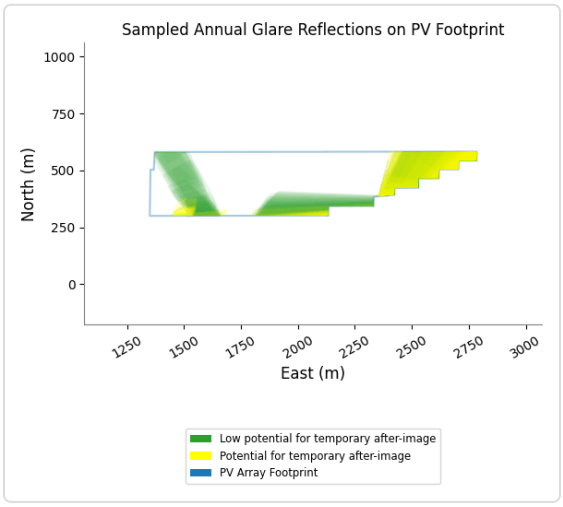
Green glare: 15,965 min.







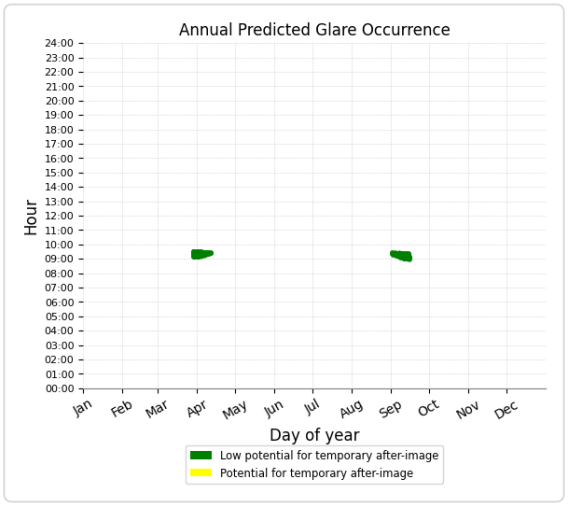


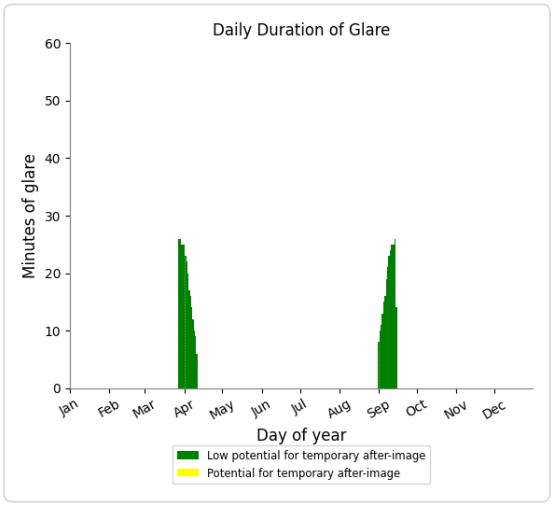


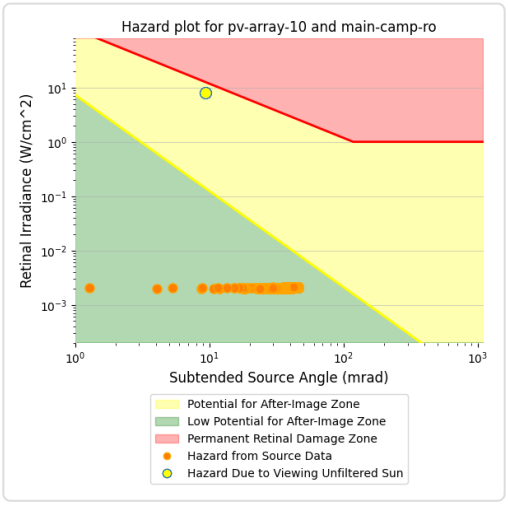
PV array 10 and Route: Main Camp Road

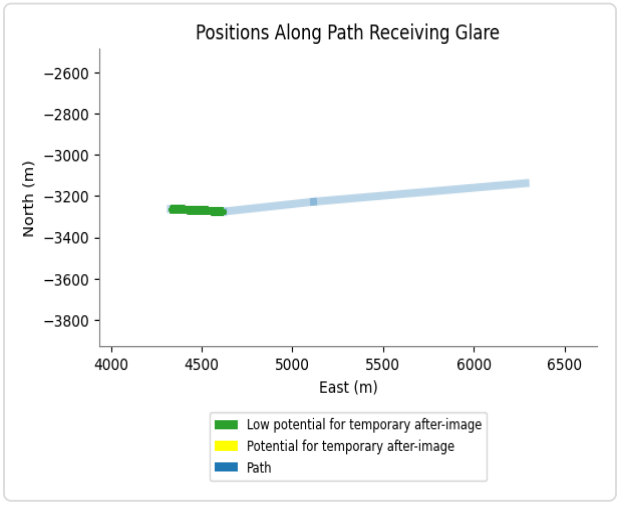
Yellow glare: none

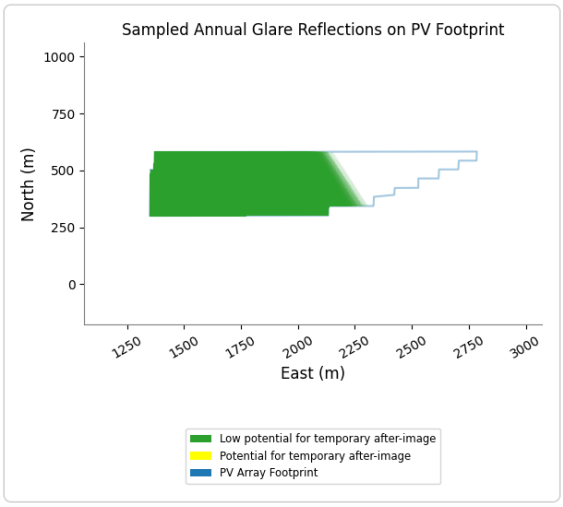
Green glare: 551 min.







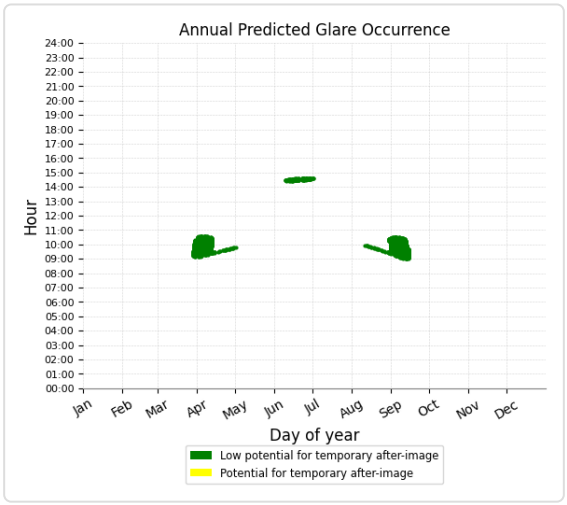


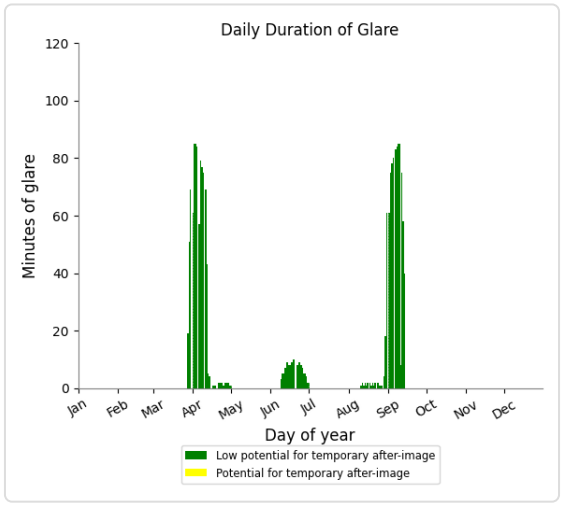


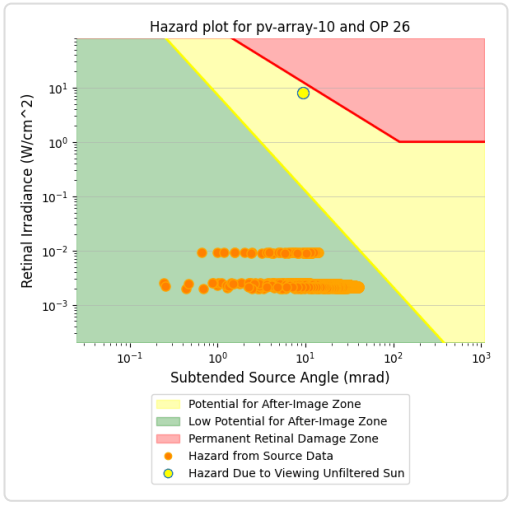
PV array 10 and OP 26

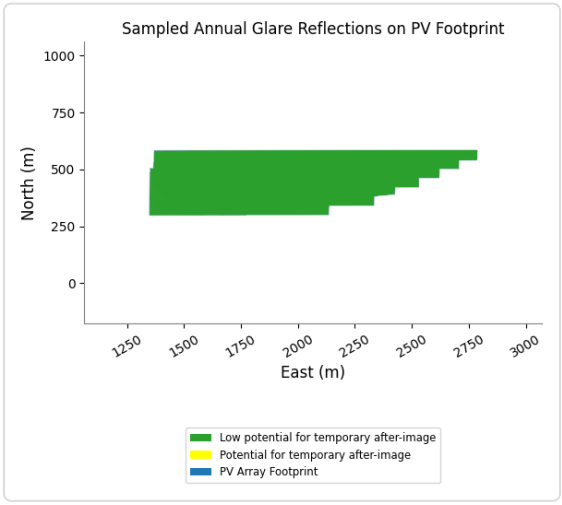
Yellow glare: none

Green glare: 1,941 min.





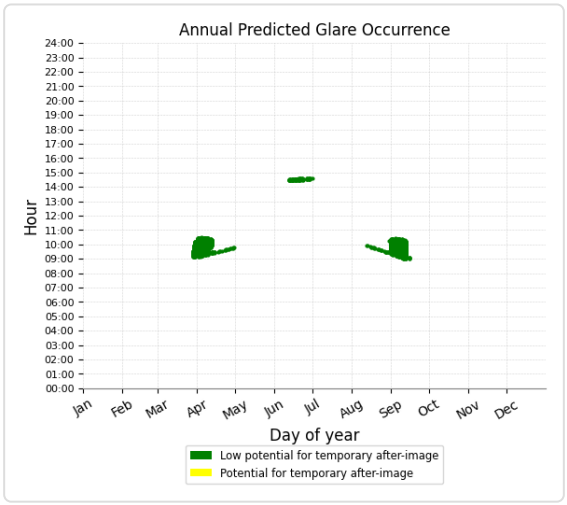


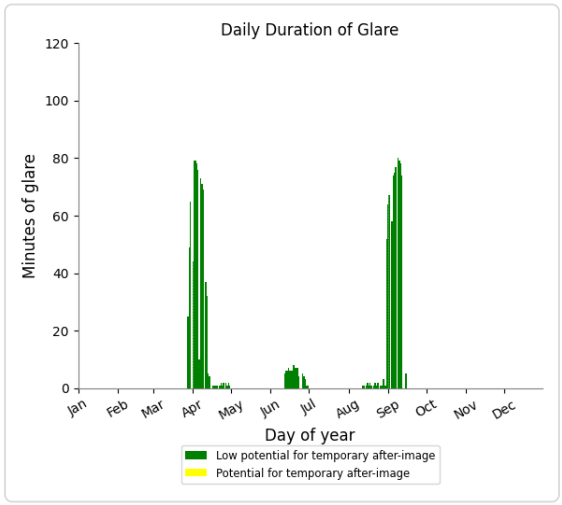


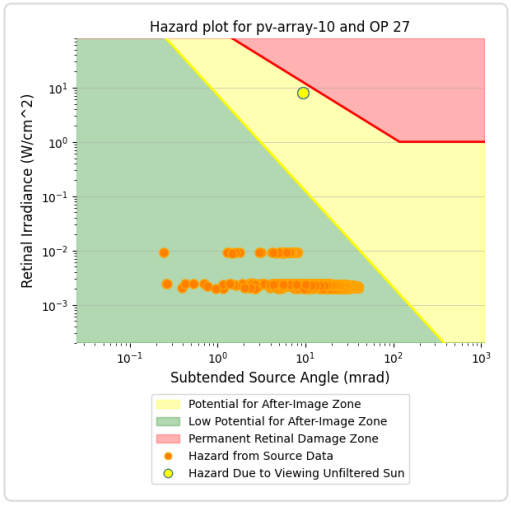
PV array 10 and OP 27

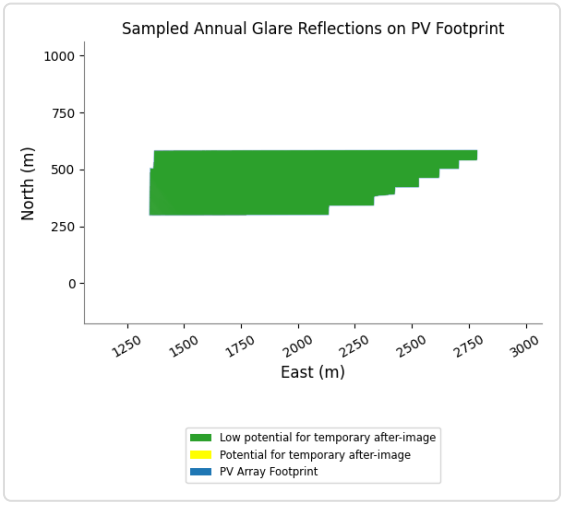
Yellow glare: none

Green glare: 1,708 min.





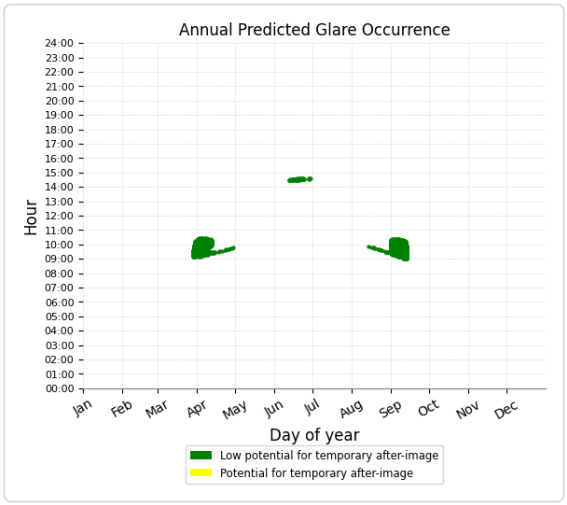


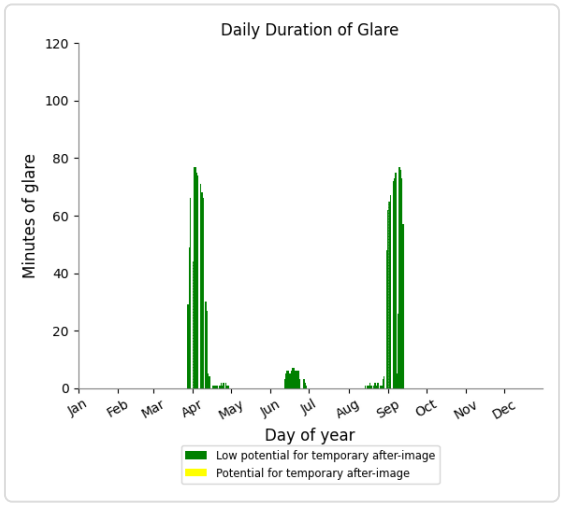


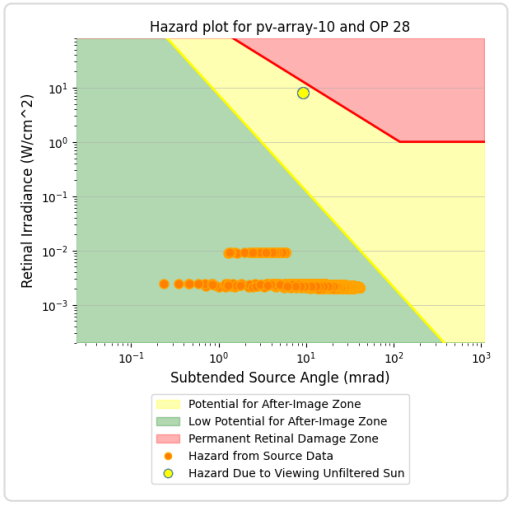
PV array 10 and OP 28

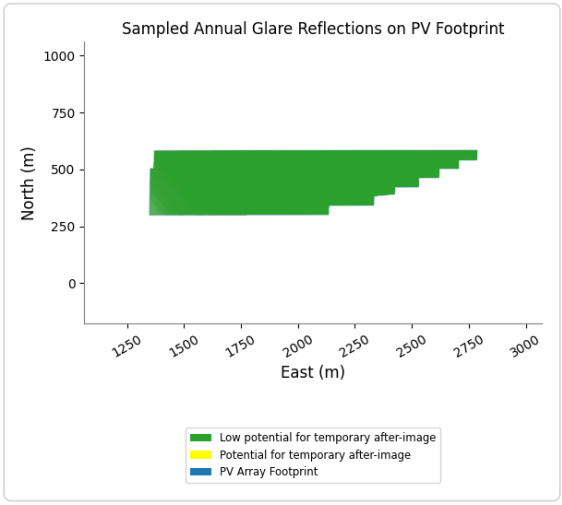
Yellow glare: none

Green glare: 1,651 min.





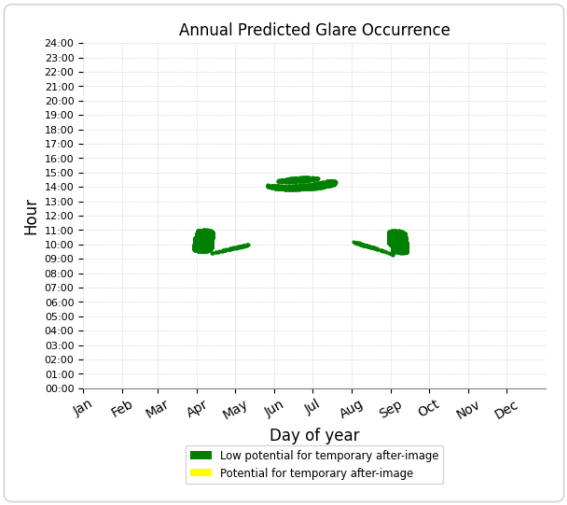


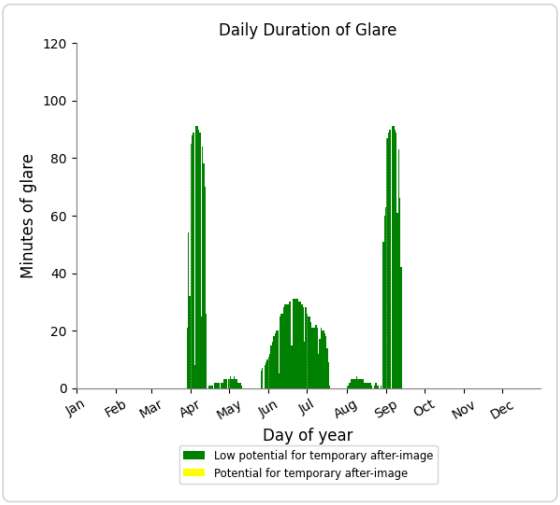


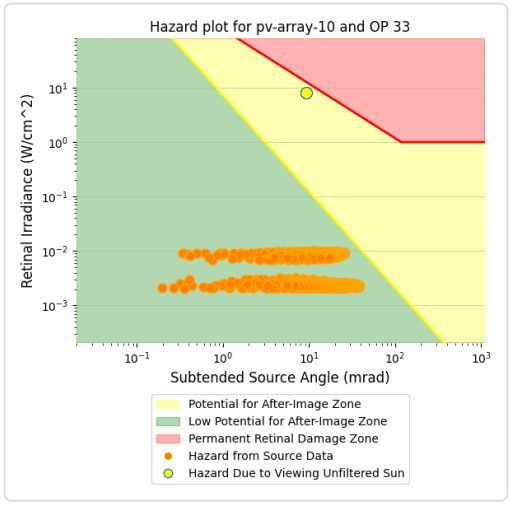
PV array 10 and OP 33

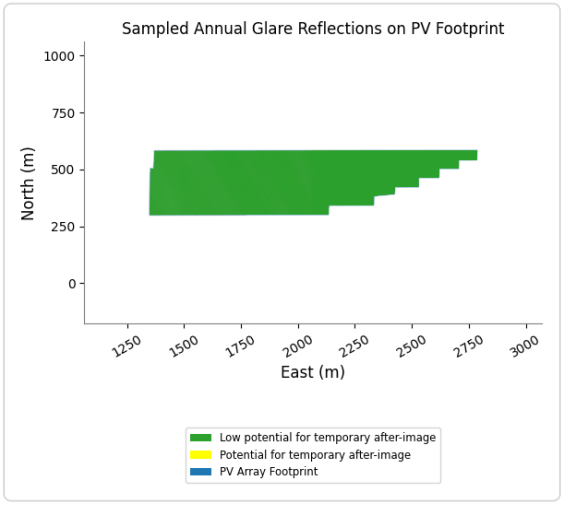
Yellow glare: none

Green glare: 3,299 min.









PV array 10 and OP 1

No glare found

PV array 10 and OP 2

No glare found

PV array 10 and OP 3

No glare found

PV array 10 and OP 4

No glare found

PV array 10 and OP 5

No glare found

PV array 10 and OP 6

No glare found

PV array 10 and OP 7

No glare found

PV array 10 and OP 8

No glare found

PV array 10 and OP 9

No glare found

PV array 10 and OP 10

No glare found

PV array 10 and OP 11

No glare found

PV array 10 and OP 12

No glare found

PV array 10 and OP 13

No glare found

PV array 10 and OP 14

No glare found

PV array 10 and OP 15

No glare found

PV array 10 and OP 16

No glare found

PV array 10 and OP 17

No glare found

PV array 10 and OP 18

No glare found

PV array 10 and OP 19

No glare found

PV array 10 and OP 20

No glare found

PV array 10 and OP 21

No glare found

PV array 10 and OP 22

No glare found

PV array 10 and OP 23

No glare found

PV array 10 and OP 24

No glare found

PV array 10 and OP 25

No glare found

PV array 10 and OP 29

No glare found

PV array 10 and OP 30

No glare found

PV array 10 and OP 31

No glare found

PV array 10 and OP 32

No glare found

PV: PV array 15 potential temporary after-image

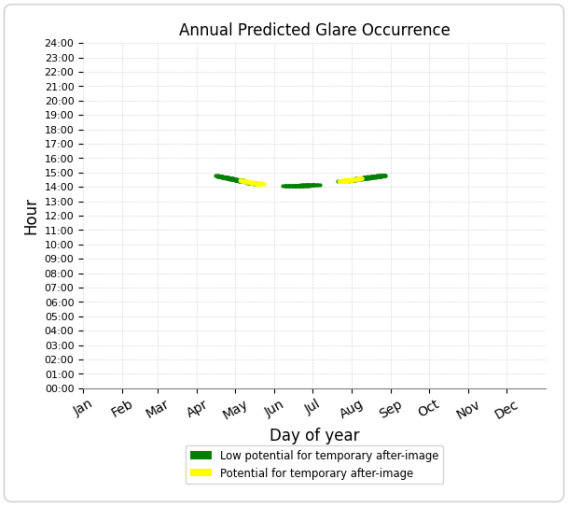
Receptor results ordered by category of glare

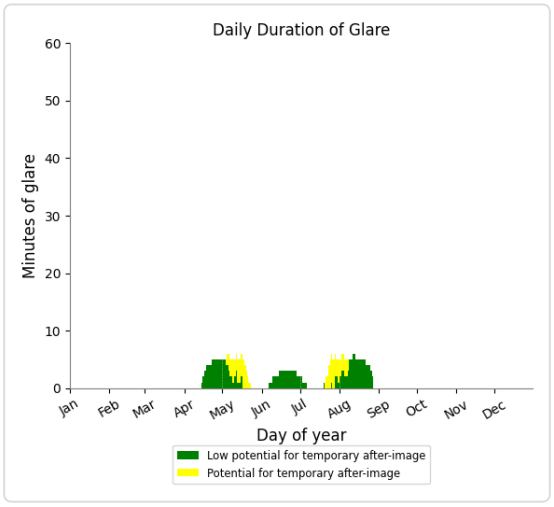
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	287	4.8	127	2.1
Avenue Road	0	0.0	0	0.0
OP 21	297	5.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

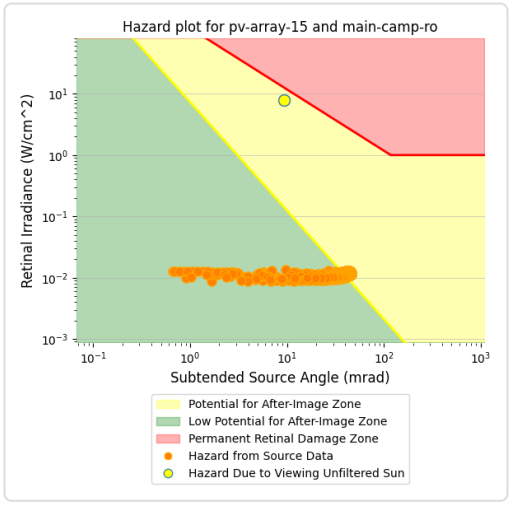
PV array 15 and Route: Main Camp Road

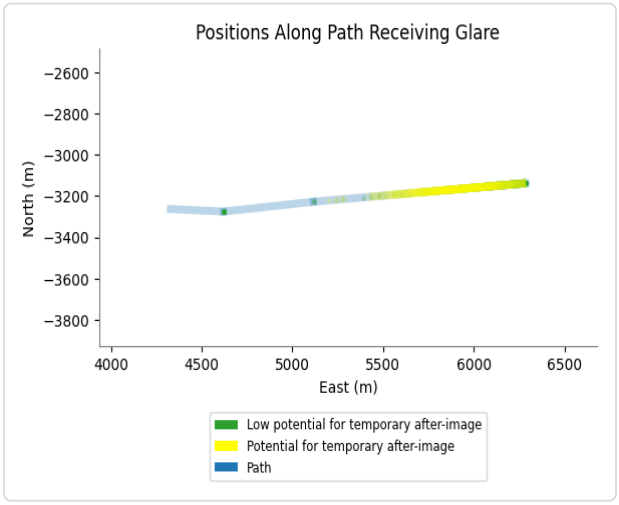
Yellow glare: 127 min.

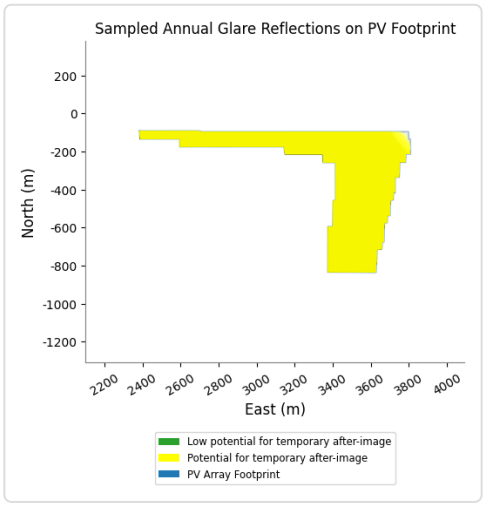
Green glare: 287 min.











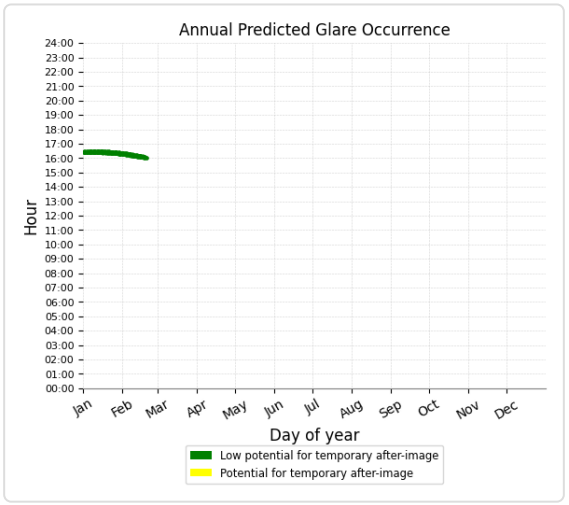
PV array 15 and Route: Avenue Road

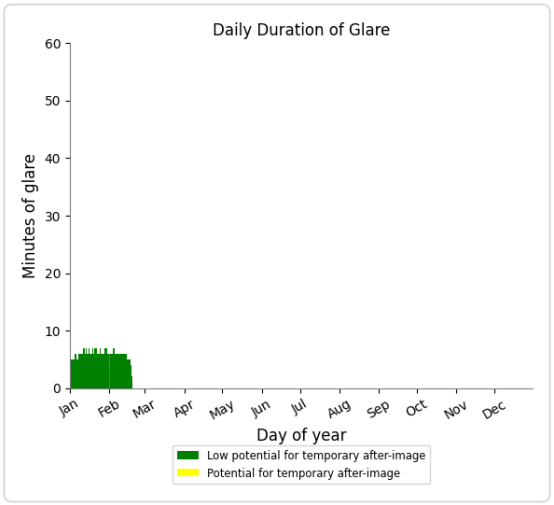
No glare found

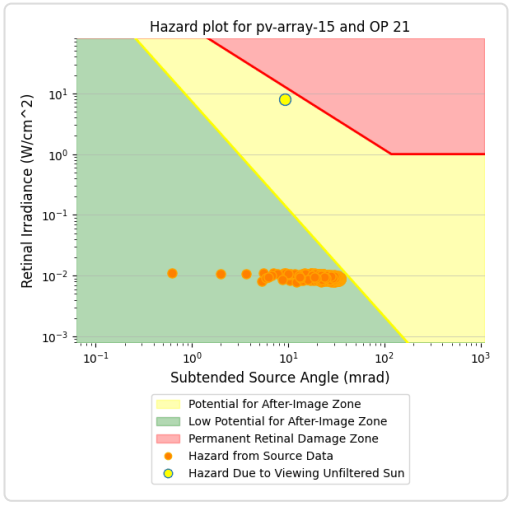
PV array 15 and OP 21

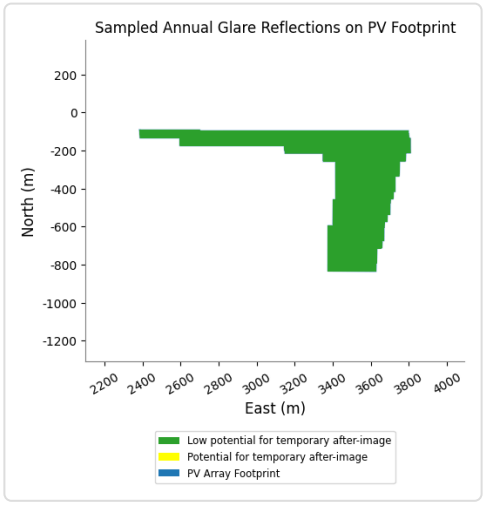
Yellow glare: none

Green glare: 297 min.









PV array 15 and OP 1

No glare found

PV array 15 and OP 2

No glare found

PV array 15 and OP 3

No glare found

PV array 15 and OP 4

No glare found

PV array 15 and OP 5

No glare found

PV array 15 and OP 6

No glare found

PV array 15 and OP 7

No glare found

PV array 15 and OP 8

No glare found

PV array 15 and OP 9

No glare found

PV array 15 and OP 10

No glare found

PV array 15 and OP 11

No glare found

PV array 15 and OP 12

No glare found

PV array 15 and OP 13

No glare found

PV array 15 and OP 14

No glare found

PV array 15 and OP 15

No glare found

PV array 15 and OP 16

No glare found

PV array 15 and OP 17

No glare found

PV array 15 and OP 18

No glare found

PV array 15 and OP 19

No glare found

PV array 15 and OP 20

No glare found

PV array 15 and OP 22

No glare found

PV array 15 and OP 23

No glare found

PV array 15 and OP 24

No glare found

PV array 15 and OP 25

No glare found

PV array 15 and OP 26

No glare found

PV array 15 and OP 27

No glare found

PV array 15 and OP 28

No glare found

PV array 15 and OP 29

No glare found

PV array 15 and OP 30

No glare found

PV array 15 and OP 31

No glare found

PV array 15 and OP 32

No glare found

PV array 15 and OP 33

No glare found

PV: PV array 16 no glare found

Receptor results ordered by category of glare

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

PV array 16 and Route: Avenue Road

No glare found

PV array 16 and Route: Main Camp Road

No glare found

PV array 16 and OP 1

No glare found

PV array 16 and OP 2

No glare found

PV array 16 and OP 3

No glare found

PV array 16 and OP 4

No glare found

PV array 16 and OP 5

No glare found

PV array 16 and OP 6

No glare found

PV array 16 and OP 7

No glare found

PV array 16 and OP 8

No glare found

PV array 16 and OP 9

No glare found

PV array 16 and OP 10

No glare found

PV array 16 and OP 11

No glare found

PV array 16 and OP 12

No glare found

PV array 16 and OP 13

No glare found

PV array 16 and OP 14

No glare found

PV array 16 and OP 15

No glare found

PV array 16 and OP 16

No glare found

PV array 16 and OP 17

No glare found

PV array 16 and OP 18

No glare found

PV array 16 and OP 19

No glare found

PV array 16 and OP 20

No glare found

PV array 16 and OP 21

No glare found

PV array 16 and OP 22

No glare found

PV array 16 and OP 23

No glare found

PV array 16 and OP 24

No glare found

PV array 16 and OP 25

No glare found

PV array 16 and OP 26

No glare found

PV array 16 and OP 27

No glare found

PV array 16 and OP 28

No glare found

PV array 16 and OP 29

No glare found

PV array 16 and OP 30

No glare found

PV array 16 and OP 31

No glare found

PV array 16 and OP 32

No glare found

PV array 16 and OP 33

No glare found

PV: PV array 17 no glare found

Receptor results ordered by category of glare

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

PV array 17 and Route: Avenue Road

No glare found

PV array 17 and Route: Main Camp Road

No glare found

PV array 17 and OP 1

No glare found

PV array 17 and OP 2

No glare found

PV array 17 and OP 3

No glare found

PV array 17 and OP 4

No glare found

PV array 17 and OP 5

No glare found

PV array 17 and OP 6

No glare found

PV array 17 and OP 7

No glare found

PV array 17 and OP 8

No glare found

PV array 17 and OP 9

No glare found

PV array 17 and OP 10

No glare found

PV array 17 and OP 11

No glare found

PV array 17 and OP 12

No glare found

PV array 17 and OP 13

No glare found

PV array 17 and OP 14

No glare found

PV array 17 and OP 15

No glare found

PV array 17 and OP 16

No glare found

PV array 17 and OP 17

No glare found

PV array 17 and OP 18

No glare found

PV array 17 and OP 19

No glare found

PV array 17 and OP 20

No glare found

PV array 17 and OP 21

No glare found

PV array 17 and OP 22

No glare found

PV array 17 and OP 23

No glare found

PV array 17 and OP 24

No glare found

PV array 17 and OP 25

No glare found

PV array 17 and OP 26

No glare found

PV array 17 and OP 27

No glare found

PV array 17 and OP 28

No glare found

PV array 17 and OP 29

No glare found

PV array 17 and OP 30

No glare found

PV array 17 and OP 31

No glare found

PV array 17 and OP 32

No glare found

PV array 17 and OP 33

No glare found

PV: PV array 18 no glare found

Receptor results ordered by category of glare

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

PV array 18 and Route: Avenue Road

No glare found

PV array 18 and Route: Main Camp Road

No glare found

PV array 18 and OP 1

No glare found

PV array 18 and OP 2

No glare found

PV array 18 and OP 3

No glare found

PV array 18 and OP 4

No glare found

PV array 18 and OP 5

No glare found

PV array 18 and OP 6

No glare found

PV array 18 and OP 7

No glare found

PV array 18 and OP 8

No glare found

PV array 18 and OP 9

No glare found

PV array 18 and OP 10

No glare found

PV array 18 and OP 11

No glare found

PV array 18 and OP 12

No glare found

PV array 18 and OP 13

No glare found

PV array 18 and OP 14

No glare found

PV array 18 and OP 15

No glare found

PV array 18 and OP 16

No glare found

PV array 18 and OP 17

No glare found

PV array 18 and OP 18

No glare found

PV array 18 and OP 19

No glare found

PV array 18 and OP 20

No glare found

PV array 18 and OP 21

No glare found

PV array 18 and OP 22

No glare found

PV array 18 and OP 23

No glare found

PV array 18 and OP 24

No glare found

PV array 18 and OP 25

No glare found

PV array 18 and OP 26

No glare found

PV array 18 and OP 27

No glare found

PV array 18 and OP 28

No glare found

PV array 18 and OP 29

No glare found

PV array 18 and OP 30

No glare found

PV array 18 and OP 31

No glare found

PV array 18 and OP 32

No glare found

PV array 18 and OP 33

No glare found

PV: PV array 19 no glare found

Receptor results ordered by category of glare

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

PV array 19 and Route: Avenue Road

No glare found

PV array 19 and Route: Main Camp Road

No glare found

PV array 19 and OP 1

No glare found

PV array 19 and OP 2

No glare found

PV array 19 and OP 3

No glare found

PV array 19 and OP 4

No glare found

PV array 19 and OP 5

No glare found

PV array 19 and OP 6

No glare found

PV array 19 and OP 7

No glare found

PV array 19 and OP 8

No glare found

PV array 19 and OP 9

No glare found

PV array 19 and OP 10

No glare found

PV array 19 and OP 11

No glare found

PV array 19 and OP 12

No glare found

PV array 19 and OP 13

No glare found

PV array 19 and OP 14

No glare found

PV array 19 and OP 15

No glare found

PV array 19 and OP 16

No glare found

PV array 19 and OP 17

No glare found

PV array 19 and OP 18

No glare found

PV array 19 and OP 19

No glare found

PV array 19 and OP 20

No glare found

PV array 19 and OP 21

No glare found

PV array 19 and OP 22

No glare found

PV array 19 and OP 23

No glare found

PV array 19 and OP 24

No glare found

PV array 19 and OP 25

No glare found

PV array 19 and OP 26

No glare found

PV array 19 and OP 27

No glare found

PV array 19 and OP 28

No glare found

PV array 19 and OP 29

No glare found

PV array 19 and OP 30

No glare found

PV array 19 and OP 31

No glare found

PV array 19 and OP 32

No glare found

PV array 19 and OP 33

No glare found

PV: PV array 2 no glare found

Receptor results ordered by category of glare

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

PV array 2 and Route: Avenue Road

No glare found

PV array 2 and Route: Main Camp Road

No glare found

PV array 2 and OP 1

No glare found

PV array 2 and OP 2

No glare found

PV array 2 and OP 3

No glare found

PV array 2 and OP 4

No glare found

PV array 2 and OP 5

No glare found

PV array 2 and OP 6

No glare found

PV array 2 and OP 7

No glare found

PV array 2 and OP 8

No glare found

PV array 2 and OP 9

No glare found

PV array 2 and OP 10

No glare found

PV array 2 and OP 11

No glare found

PV array 2 and OP 12

No glare found

PV array 2 and OP 13

No glare found

PV array 2 and OP 14

No glare found

PV array 2 and OP 15

No glare found

PV array 2 and OP 16

No glare found

PV array 2 and OP 17

No glare found

PV array 2 and OP 18

No glare found

PV array 2 and OP 19

No glare found

PV array 2 and OP 20

No glare found

PV array 2 and OP 21

No glare found

PV array 2 and OP 22

No glare found

PV array 2 and OP 23

No glare found

PV array 2 and OP 24

No glare found

PV array 2 and OP 25

No glare found

PV array 2 and OP 26

No glare found

PV array 2 and OP 27

No glare found

PV array 2 and OP 28

No glare found

PV array 2 and OP 29

No glare found

PV array 2 and OP 30

No glare found

PV array 2 and OP 31

No glare found

PV array 2 and OP 32

No glare found

PV array 2 and OP 33

No glare found

PV: PV array 20 no glare found

Receptor results ordered by category of glare

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

PV array 20 and Route: Avenue Road

No glare found

PV array 20 and Route: Main Camp Road

No glare found

PV array 20 and OP 1

No glare found

PV array 20 and OP 2

No glare found

PV array 20 and OP 3

No glare found

PV array 20 and OP 4

No glare found

PV array 20 and OP 5

No glare found

PV array 20 and OP 6

No glare found

PV array 20 and OP 7

No glare found

PV array 20 and OP 8

No glare found

PV array 20 and OP 9

No glare found

PV array 20 and OP 10

No glare found

PV array 20 and OP 11

No glare found

PV array 20 and OP 12

No glare found

PV array 20 and OP 13

No glare found

PV array 20 and OP 14

No glare found

PV array 20 and OP 15

No glare found

PV array 20 and OP 16

No glare found

PV array 20 and OP 17

No glare found

PV array 20 and OP 18

No glare found

PV array 20 and OP 19

No glare found

PV array 20 and OP 20

No glare found

PV array 20 and OP 21

No glare found

PV array 20 and OP 22

No glare found

PV array 20 and OP 23

No glare found

PV array 20 and OP 24

No glare found

PV array 20 and OP 25

No glare found

PV array 20 and OP 26

No glare found

PV array 20 and OP 27

No glare found

PV array 20 and OP 28

No glare found

PV array 20 and OP 29

No glare found

PV array 20 and OP 30

No glare found

PV array 20 and OP 31

No glare found

PV array 20 and OP 32

No glare found

PV array 20 and OP 33

No glare found

PV: PV array 21 no glare found

Receptor results ordered by category of glare

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

PV array 21 and Route: Avenue Road

No glare found

PV array 21 and Route: Main Camp Road

No glare found

PV array 21 and OP 1

No glare found

PV array 21 and OP 2

No glare found

PV array 21 and OP 3

No glare found

PV array 21 and OP 4

No glare found

PV array 21 and OP 5

No glare found

PV array 21 and OP 6

No glare found

PV array 21 and OP 7

No glare found

PV array 21 and OP 8

No glare found

PV array 21 and OP 9

No glare found

PV array 21 and OP 10

No glare found

PV array 21 and OP 11

No glare found

PV array 21 and OP 12

No glare found

PV array 21 and OP 13

No glare found

PV array 21 and OP 14

No glare found

PV array 21 and OP 15

No glare found

PV array 21 and OP 16

No glare found

PV array 21 and OP 17

No glare found

PV array 21 and OP 18

No glare found

PV array 21 and OP 19

No glare found

PV array 21 and OP 20

No glare found

PV array 21 and OP 21

No glare found

PV array 21 and OP 22

No glare found

PV array 21 and OP 23

No glare found

PV array 21 and OP 24

No glare found

PV array 21 and OP 25

No glare found

PV array 21 and OP 26

No glare found

PV array 21 and OP 27

No glare found

PV array 21 and OP 28

No glare found

PV array 21 and OP 29

No glare found

PV array 21 and OP 30

No glare found

PV array 21 and OP 31

No glare found

PV array 21 and OP 32

No glare found

PV array 21 and OP 33

No glare found

PV: PV array 22 no glare found

Receptor results ordered by category of glare

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

PV array 22 and Route: Avenue Road

No glare found

PV array 22 and Route: Main Camp Road

No glare found

PV array 22 and OP 1

No glare found

PV array 22 and OP 2

No glare found

PV array 22 and OP 3

No glare found

PV array 22 and OP 4

No glare found

PV array 22 and OP 5

No glare found

PV array 22 and OP 6

No glare found

PV array 22 and OP 7

No glare found

PV array 22 and OP 8

No glare found

PV array 22 and OP 9

No glare found

PV array 22 and OP 10

No glare found

PV array 22 and OP 11

No glare found

PV array 22 and OP 12

No glare found

PV array 22 and OP 13

No glare found

PV array 22 and OP 14

No glare found

PV array 22 and OP 15

No glare found

PV array 22 and OP 16

No glare found

PV array 22 and OP 17

No glare found

PV array 22 and OP 18

No glare found

PV array 22 and OP 19

No glare found

PV array 22 and OP 20

No glare found

PV array 22 and OP 21

No glare found

PV array 22 and OP 22

No glare found

PV array 22 and OP 23

No glare found

PV array 22 and OP 24

No glare found

PV array 22 and OP 25

No glare found

PV array 22 and OP 26

No glare found

PV array 22 and OP 27

No glare found

PV array 22 and OP 28

No glare found

PV array 22 and OP 29

No glare found

PV array 22 and OP 30

No glare found

PV array 22 and OP 31

No glare found

PV array 22 and OP 32

No glare found

PV array 22 and OP 33

No glare found

PV: PV array 23 no glare found

Receptor results ordered by category of glare

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

PV array 23 and Route: Avenue Road

No glare found

PV array 23 and Route: Main Camp Road

No glare found

PV array 23 and OP 1

No glare found

PV array 23 and OP 2

No glare found

PV array 23 and OP 3

No glare found

PV array 23 and OP 4

No glare found

PV array 23 and OP 5

No glare found

PV array 23 and OP 6

No glare found

PV array 23 and OP 7

No glare found

PV array 23 and OP 8

No glare found

PV array 23 and OP 9

No glare found

PV array 23 and OP 10

No glare found

PV array 23 and OP 11

No glare found

PV array 23 and OP 12

No glare found

PV array 23 and OP 13

No glare found

PV array 23 and OP 14

No glare found

PV array 23 and OP 15

No glare found

PV array 23 and OP 16

No glare found

PV array 23 and OP 17

No glare found

PV array 23 and OP 18

No glare found

PV array 23 and OP 19

No glare found

PV array 23 and OP 20

No glare found

PV array 23 and OP 21

No glare found

PV array 23 and OP 22

No glare found

PV array 23 and OP 23

No glare found

PV array 23 and OP 24

No glare found

PV array 23 and OP 25

No glare found

PV array 23 and OP 26

No glare found

PV array 23 and OP 27

No glare found

PV array 23 and OP 28

No glare found

PV array 23 and OP 29

No glare found

PV array 23 and OP 30

No glare found

PV array 23 and OP 31

No glare found

PV array 23 and OP 32

No glare found

PV array 23 and OP 33

No glare found

PV: PV array 3 no glare found

Receptor results ordered by category of glare

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

PV array 3 and Route: Avenue Road

No glare found

PV array 3 and Route: Main Camp Road

No glare found

PV array 3 and OP 1

No glare found

PV array 3 and OP 2

No glare found

PV array 3 and OP 3

No glare found

PV array 3 and OP 4

No glare found

PV array 3 and OP 5

No glare found

PV array 3 and OP 6

No glare found

PV array 3 and OP 7

No glare found

PV array 3 and OP 8

No glare found

PV array 3 and OP 9

No glare found

PV array 3 and OP 10

No glare found

PV array 3 and OP 11

No glare found

PV array 3 and OP 12

No glare found

PV array 3 and OP 13

No glare found

PV array 3 and OP 14

No glare found

PV array 3 and OP 15

No glare found

PV array 3 and OP 16

No glare found

PV array 3 and OP 17

No glare found

PV array 3 and OP 18

No glare found

PV array 3 and OP 19

No glare found

PV array 3 and OP 20

No glare found

PV array 3 and OP 21

No glare found

PV array 3 and OP 22

No glare found

PV array 3 and OP 23

No glare found

PV array 3 and OP 24

No glare found

PV array 3 and OP 25

No glare found

PV array 3 and OP 26

No glare found

PV array 3 and OP 27

No glare found

PV array 3 and OP 28

No glare found

PV array 3 and OP 29

No glare found

PV array 3 and OP 30

No glare found

PV array 3 and OP 31

No glare found

PV array 3 and OP 32

No glare found

PV array 3 and OP 33

No glare found

PV: PV array 4 no glare found

Receptor results ordered by category of glare

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

PV array 4 and Route: Avenue Road

No glare found

PV array 4 and Route: Main Camp Road

No glare found

PV array 4 and OP 1

No glare found

PV array 4 and OP 2

No glare found

PV array 4 and OP 3

No glare found

PV array 4 and OP 4

No glare found

PV array 4 and OP 5

No glare found

PV array 4 and OP 6

No glare found

PV array 4 and OP 7

No glare found

PV array 4 and OP 8

No glare found

PV array 4 and OP 9

No glare found

PV array 4 and OP 10

No glare found

PV array 4 and OP 11

No glare found

PV array 4 and OP 12

No glare found

PV array 4 and OP 13

No glare found

PV array 4 and OP 14

No glare found

PV array 4 and OP 15

No glare found

PV array 4 and OP 16

No glare found

PV array 4 and OP 17

No glare found

PV array 4 and OP 18

No glare found

PV array 4 and OP 19

No glare found

PV array 4 and OP 20

No glare found

PV array 4 and OP 21

No glare found

PV array 4 and OP 22

No glare found

PV array 4 and OP 23

No glare found

PV array 4 and OP 24

No glare found

PV array 4 and OP 25

No glare found

PV array 4 and OP 26

No glare found

PV array 4 and OP 27

No glare found

PV array 4 and OP 28

No glare found

PV array 4 and OP 29

No glare found

PV array 4 and OP 30

No glare found

PV array 4 and OP 31

No glare found

PV array 4 and OP 32

No glare found

PV array 4 and OP 33

No glare found

PV: PV array 5 no glare found

Receptor results ordered by category of glare

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

PV array 5 and Route: Avenue Road

No glare found

PV array 5 and Route: Main Camp Road

No glare found

PV array 5 and OP 1

No glare found

PV array 5 and OP 2

No glare found

PV array 5 and OP 3

No glare found

PV array 5 and OP 4

No glare found

PV array 5 and OP 5

No glare found

PV array 5 and OP 6

No glare found

PV array 5 and OP 7

No glare found

PV array 5 and OP 8

No glare found

PV array 5 and OP 9

No glare found

PV array 5 and OP 10

No glare found

PV array 5 and OP 11

No glare found

PV array 5 and OP 12

No glare found

PV array 5 and OP 13

No glare found

PV array 5 and OP 14

No glare found

PV array 5 and OP 15

No glare found

PV array 5 and OP 16

No glare found

PV array 5 and OP 17

No glare found

PV array 5 and OP 18

No glare found

PV array 5 and OP 19

No glare found

PV array 5 and OP 20

No glare found

PV array 5 and OP 21

No glare found

PV array 5 and OP 22

No glare found

PV array 5 and OP 23

No glare found

PV array 5 and OP 24

No glare found

PV array 5 and OP 25

No glare found

PV array 5 and OP 26

No glare found

PV array 5 and OP 27

No glare found

PV array 5 and OP 28

No glare found

PV array 5 and OP 29

No glare found

PV array 5 and OP 30

No glare found

PV array 5 and OP 31

No glare found

PV array 5 and OP 32

No glare found

PV array 5 and OP 33

No glare found

PV: PV array 6 no glare found

Receptor results ordered by category of glare

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

PV array 6 and Route: Avenue Road

No glare found

PV array 6 and Route: Main Camp Road

No glare found

PV array 6 and OP 1

No glare found

PV array 6 and OP 2

No glare found

PV array 6 and OP 3

No glare found

PV array 6 and OP 4

No glare found

PV array 6 and OP 5

No glare found

PV array 6 and OP 6

No glare found

PV array 6 and OP 7

No glare found

PV array 6 and OP 8

No glare found

PV array 6 and OP 9

No glare found

PV array 6 and OP 10

No glare found

PV array 6 and OP 11

No glare found

PV array 6 and OP 12

No glare found

PV array 6 and OP 13

No glare found

PV array 6 and OP 14

No glare found

PV array 6 and OP 15

No glare found

PV array 6 and OP 16

No glare found

PV array 6 and OP 17

No glare found

PV array 6 and OP 18

No glare found

PV array 6 and OP 19

No glare found

PV array 6 and OP 20

No glare found

PV array 6 and OP 21

No glare found

PV array 6 and OP 22

No glare found

PV array 6 and OP 23

No glare found

PV array 6 and OP 24

No glare found

PV array 6 and OP 25

No glare found

PV array 6 and OP 26

No glare found

PV array 6 and OP 27

No glare found

PV array 6 and OP 28

No glare found

PV array 6 and OP 29

No glare found

PV array 6 and OP 30

No glare found

PV array 6 and OP 31

No glare found

PV array 6 and OP 32

No glare found

PV array 6 and OP 33

No glare found

PV: PV array 7 no glare found

Receptor results ordered by category of glare

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

PV array 7 and Route: Avenue Road

No glare found

PV array 7 and Route: Main Camp Road

No glare found

PV array 7 and OP 1

No glare found

PV array 7 and OP 2

No glare found

PV array 7 and OP 3

No glare found

PV array 7 and OP 4

No glare found

PV array 7 and OP 5

No glare found

PV array 7 and OP 6

No glare found

PV array 7 and OP 7

No glare found

PV array 7 and OP 8

No glare found

PV array 7 and OP 9

No glare found

PV array 7 and OP 10

No glare found

PV array 7 and OP 11

No glare found

PV array 7 and OP 12

No glare found

PV array 7 and OP 13

No glare found

PV array 7 and OP 14

No glare found

PV array 7 and OP 15

No glare found

PV array 7 and OP 16

No glare found

PV array 7 and OP 17

No glare found

PV array 7 and OP 18

No glare found

PV array 7 and OP 19

No glare found

PV array 7 and OP 20

No glare found

PV array 7 and OP 21

No glare found

PV array 7 and OP 22

No glare found

PV array 7 and OP 23

No glare found

PV array 7 and OP 24

No glare found

PV array 7 and OP 25

No glare found

PV array 7 and OP 26

No glare found

PV array 7 and OP 27

No glare found

PV array 7 and OP 28

No glare found

PV array 7 and OP 29

No glare found

PV array 7 and OP 30

No glare found

PV array 7 and OP 31

No glare found

PV array 7 and OP 32

No glare found

PV array 7 and OP 33

No glare found

PV: PV array 8 potential temporary after-image

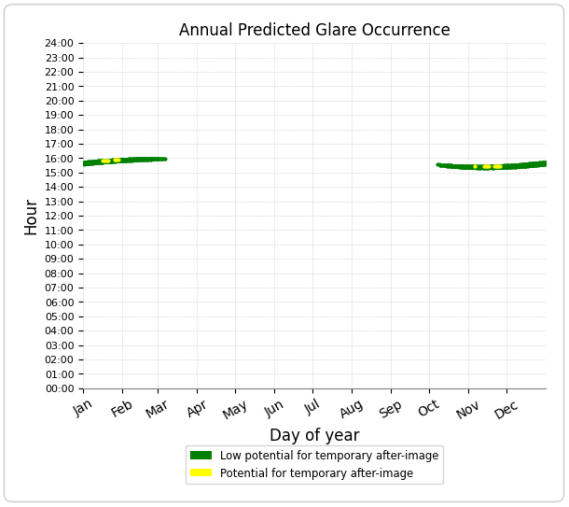
Receptor results ordered by category of glare

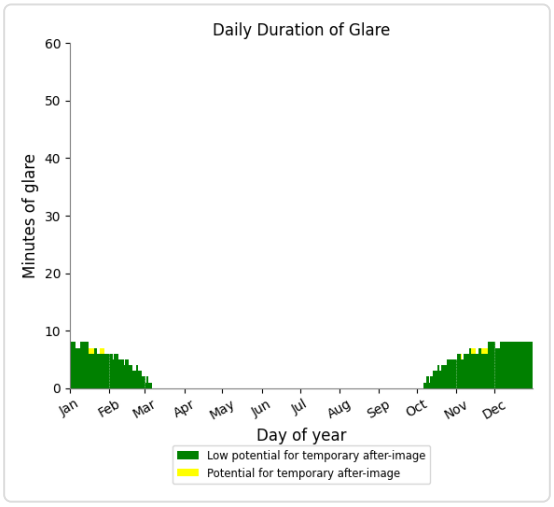
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	864	14.4	19	0.3
Main Camp Road	0	0.0	0	0.0
OP 9	261	4.3	0	0.0
OP 10	57	0.9	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	148	2.5	0	0.0
OP 16	488	8.1	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 22	290	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	55	0.9	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

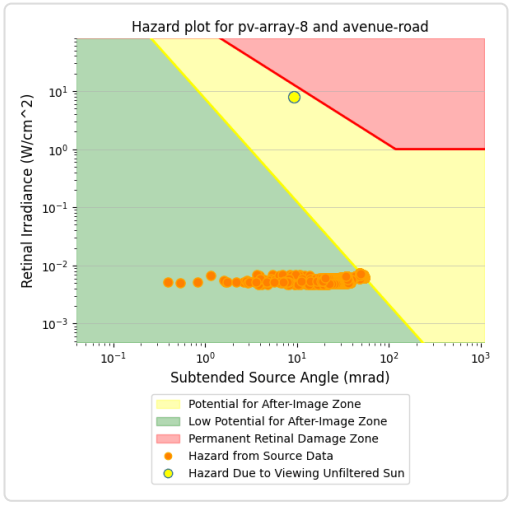
PV array 8 and Route: Avenue Road

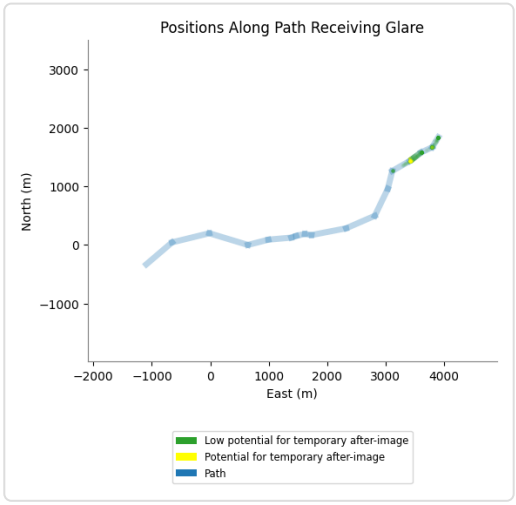
Yellow glare: 19 min.

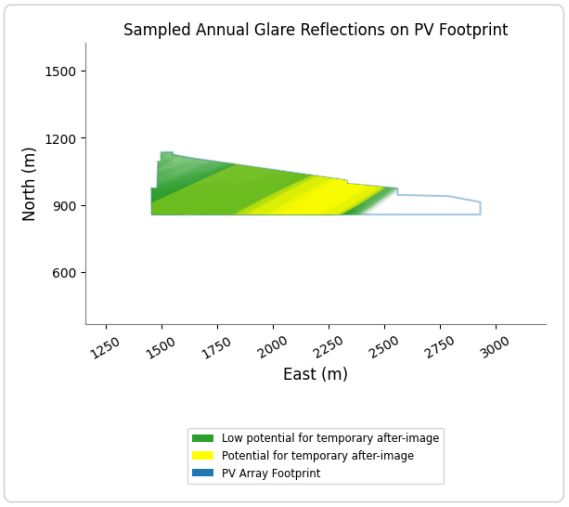
Green glare: 864 min.











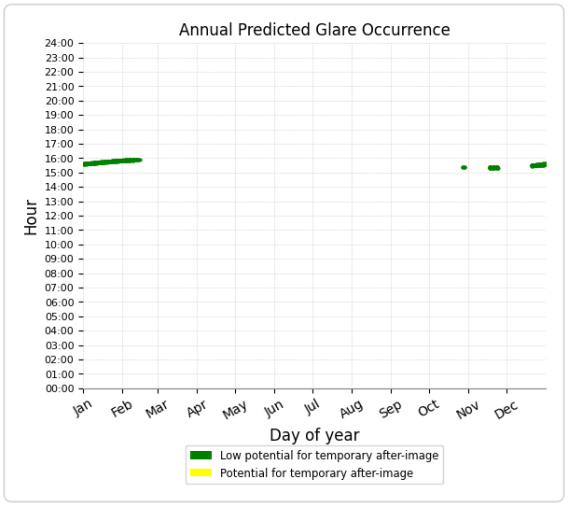
PV array 8 and Route: Main Camp Road

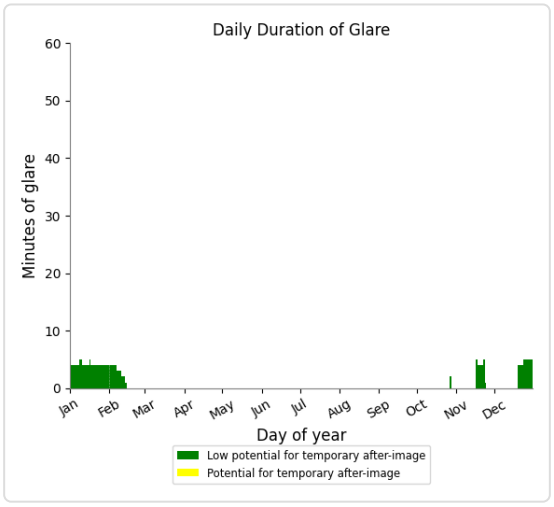
No glare found

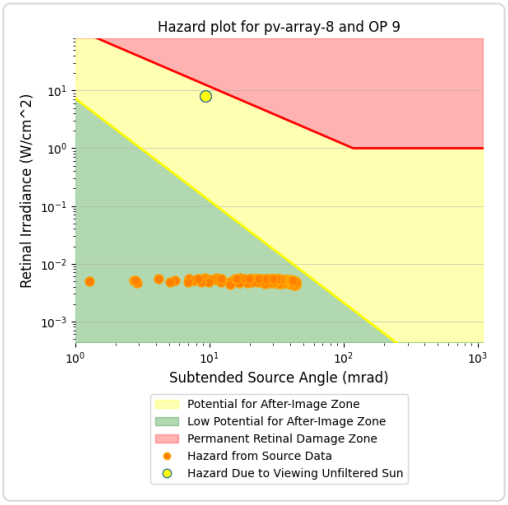
PV array 8 and OP 9

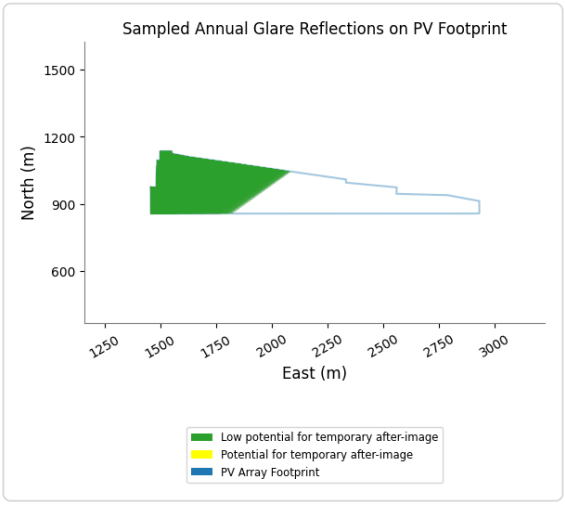
Yellow glare: none

Green glare: 261 min.





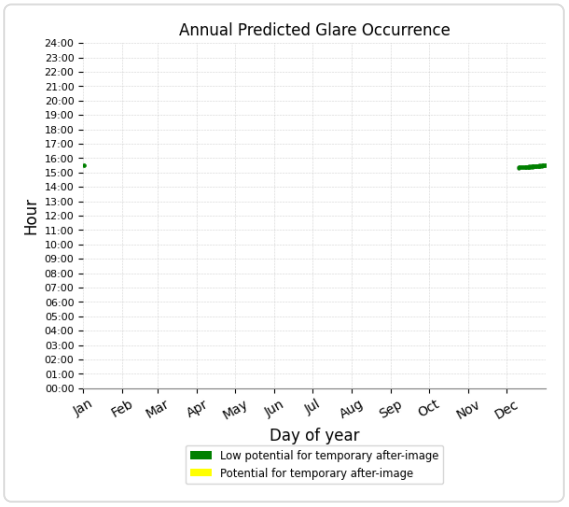


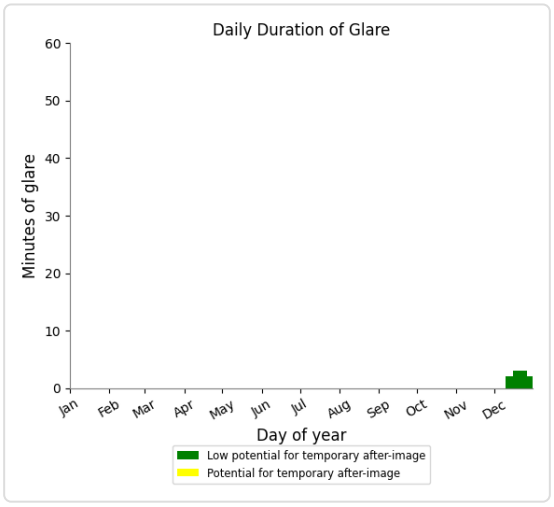


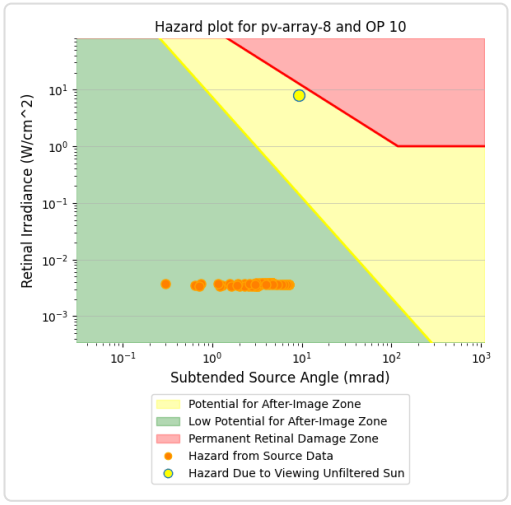
PV array 8 and OP 10

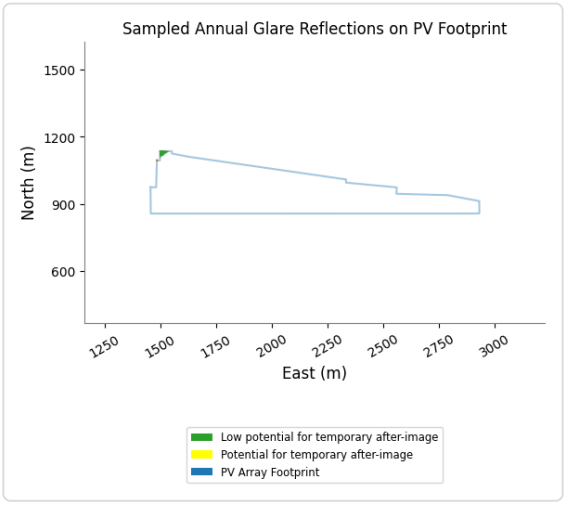
Yellow glare: none

Green glare: 57 min.





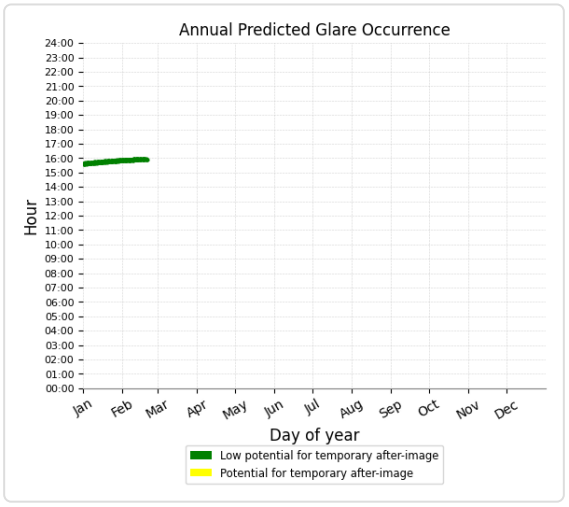


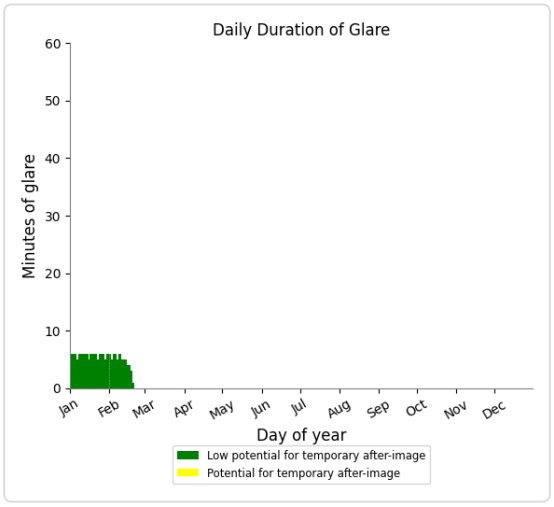


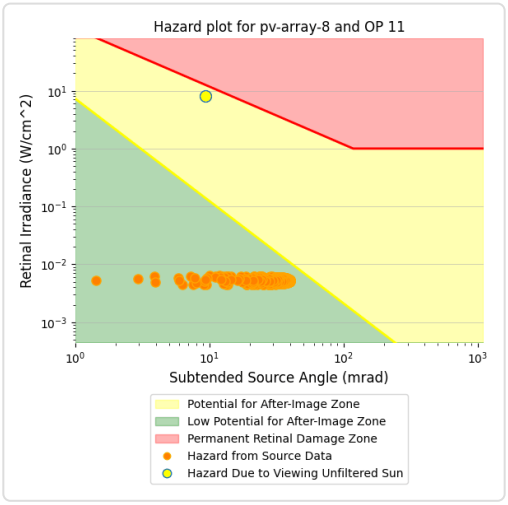
PV array 8 and OP 11

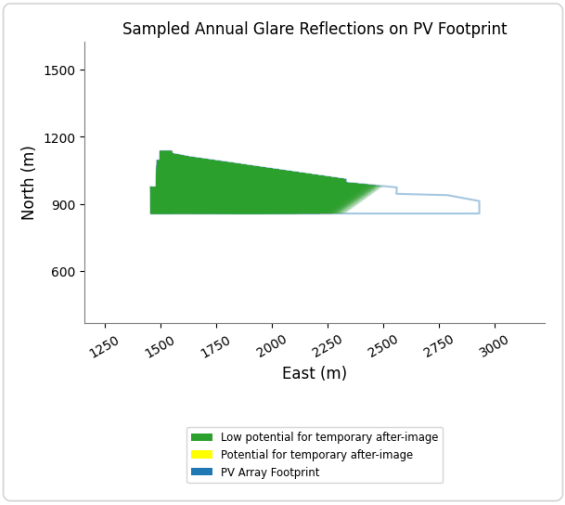
Yellow glare: none

Green glare: 278 min.





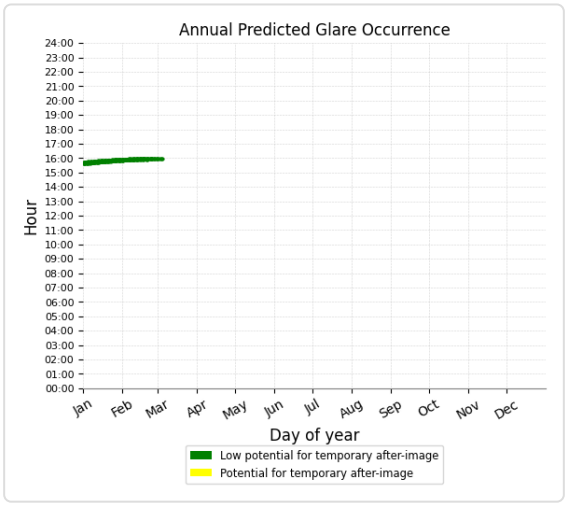


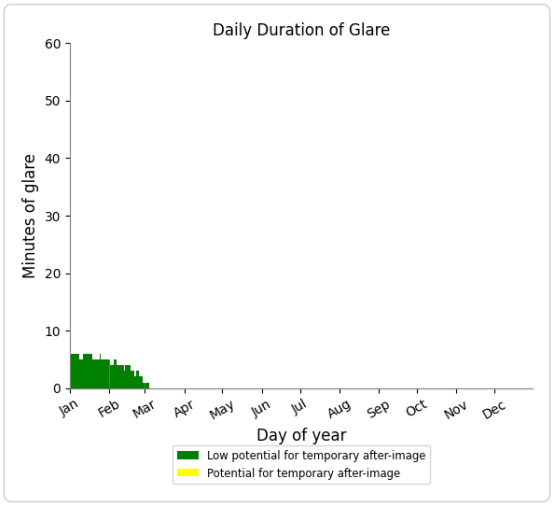


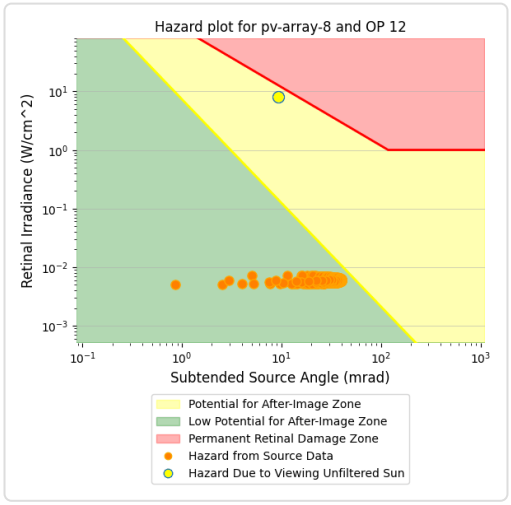
PV array 8 and OP 12

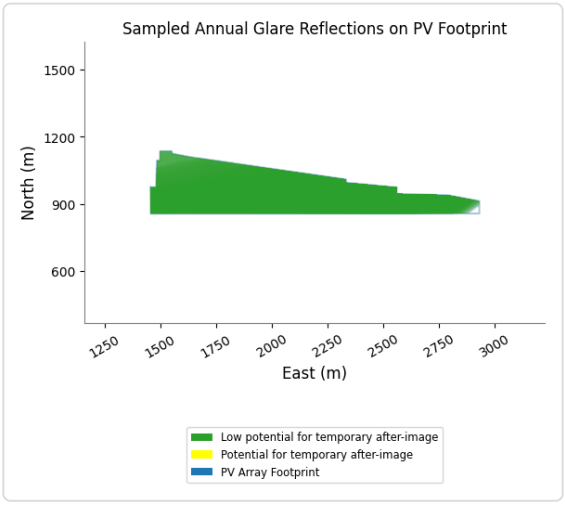
Yellow glare: none

Green glare: 271 min.





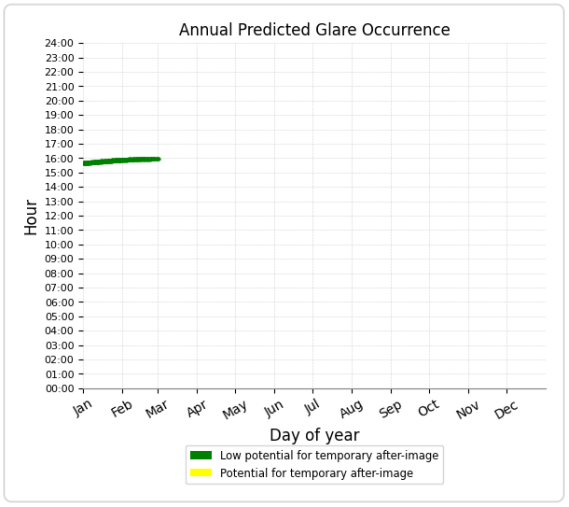


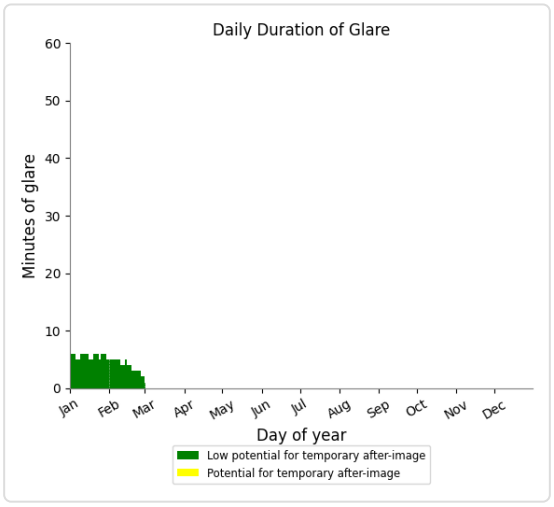


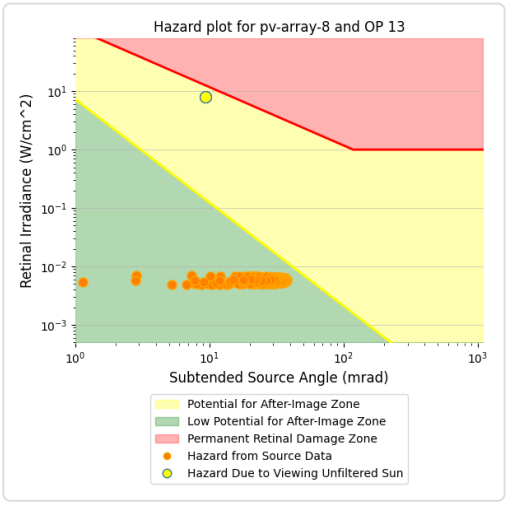
PV array 8 and OP 13

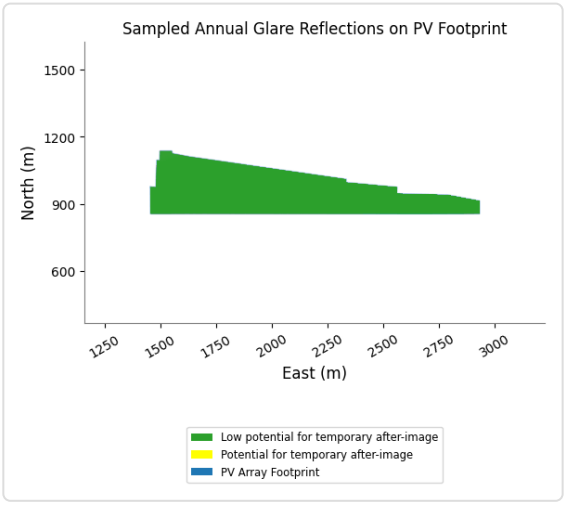
Yellow glare: none

Green glare: 284 min.





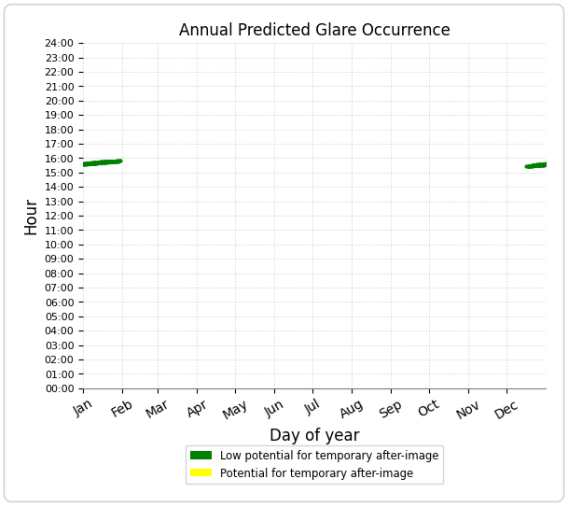


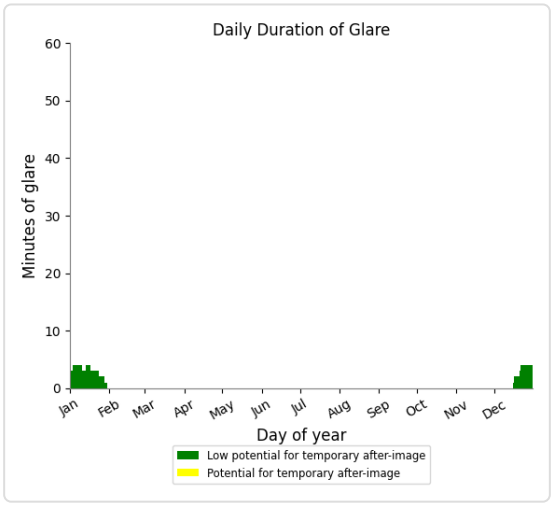


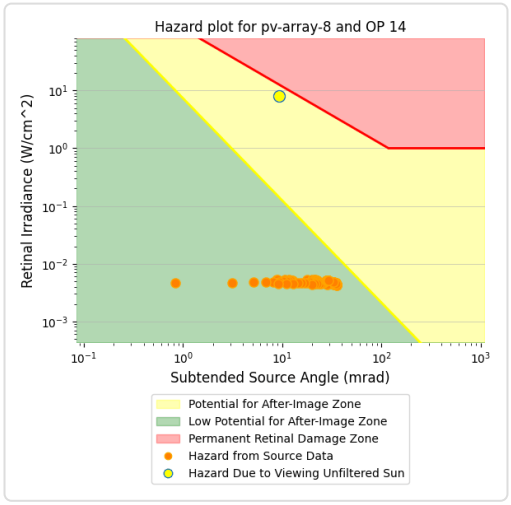
PV array 8 and OP 14

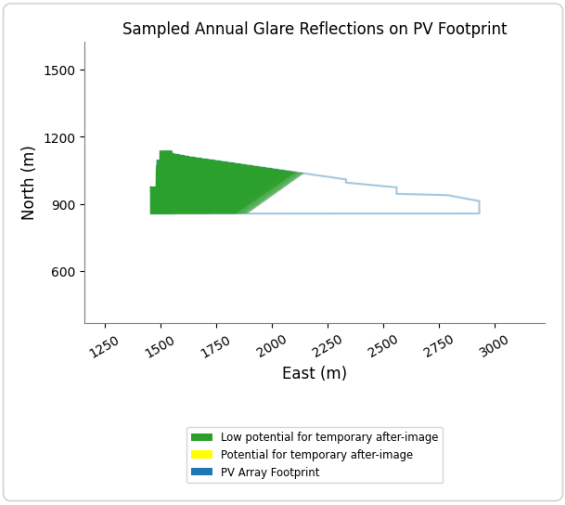
Yellow glare: none

Green glare: 144 min.





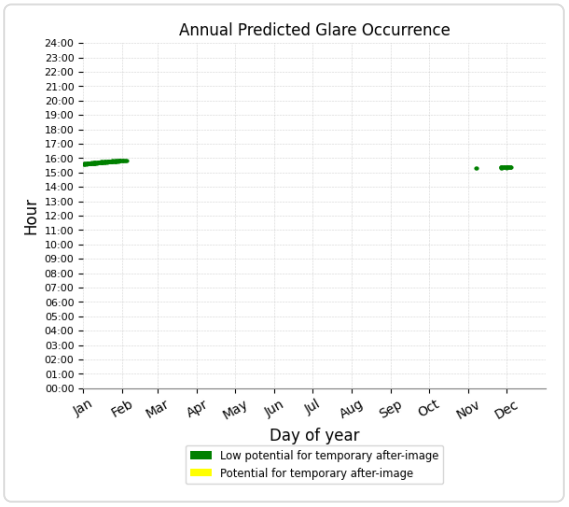


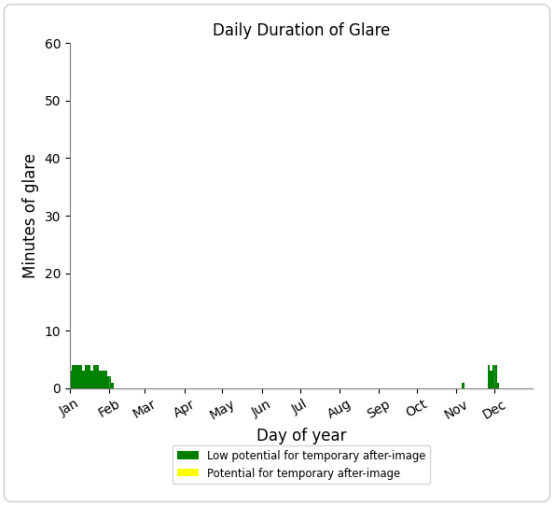


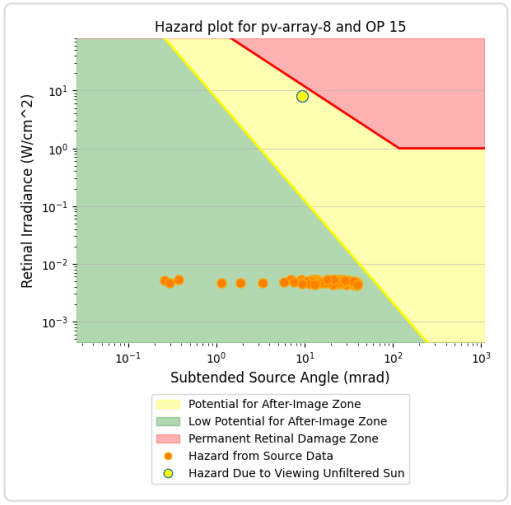
PV array 8 and OP 15

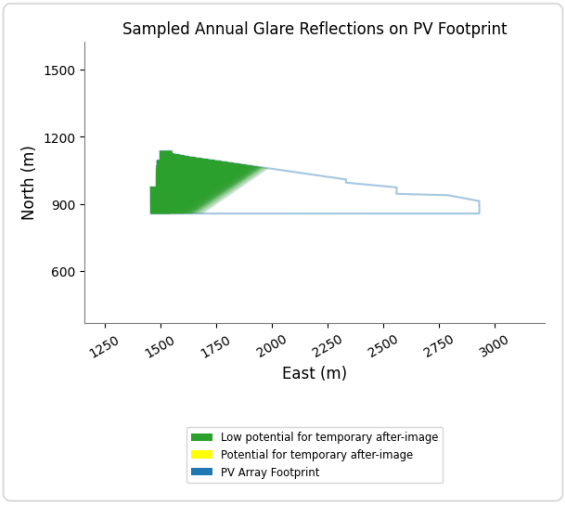
Yellow glare: none

Green glare: 148 min.





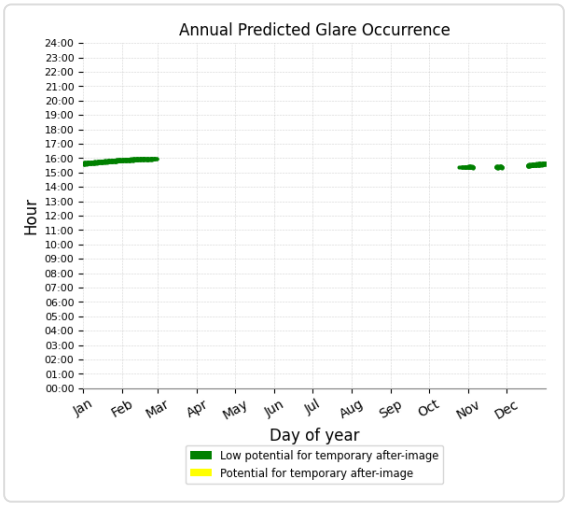


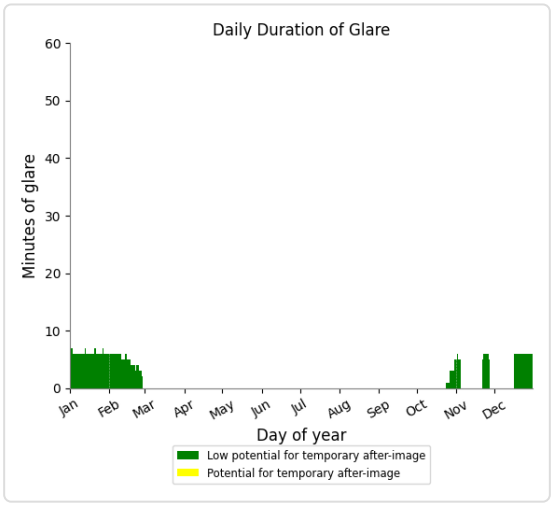


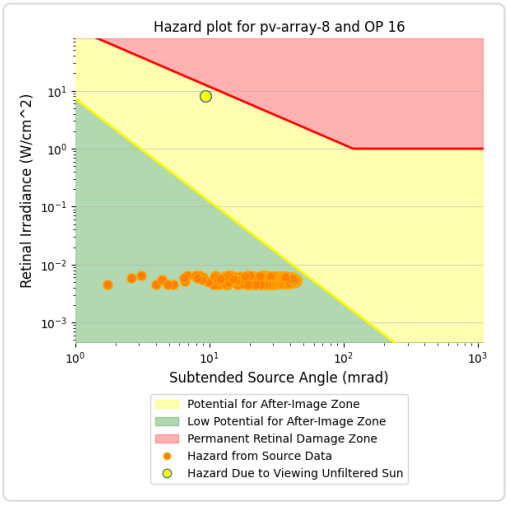
PV array 8 and OP 16

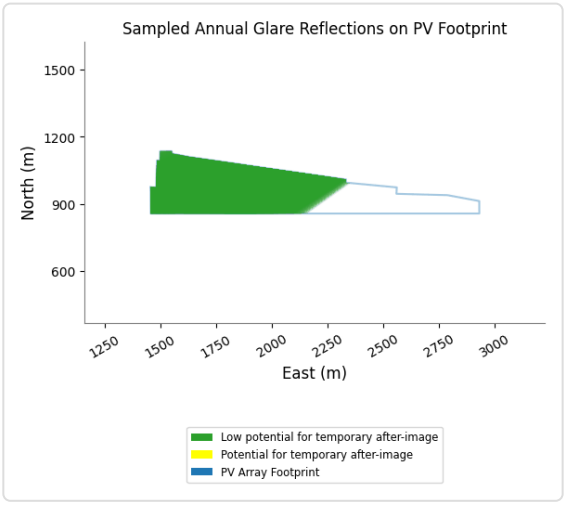
Yellow glare: none

Green glare: 488 min.





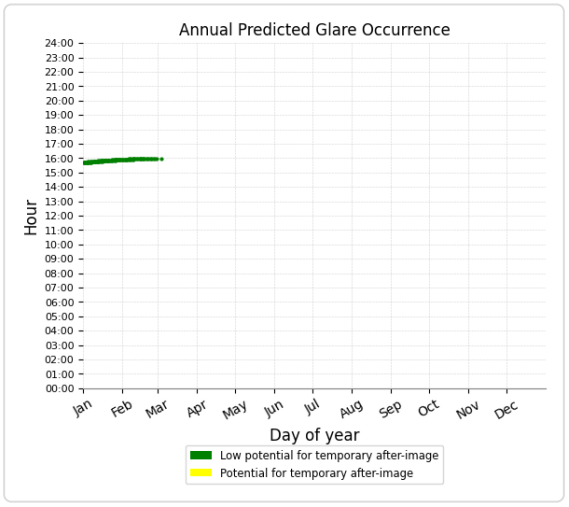


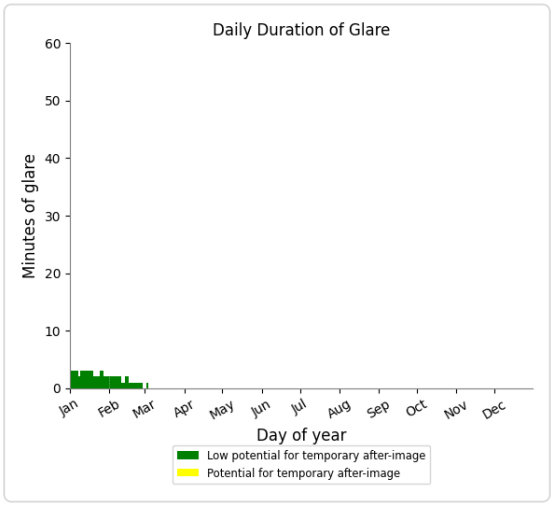


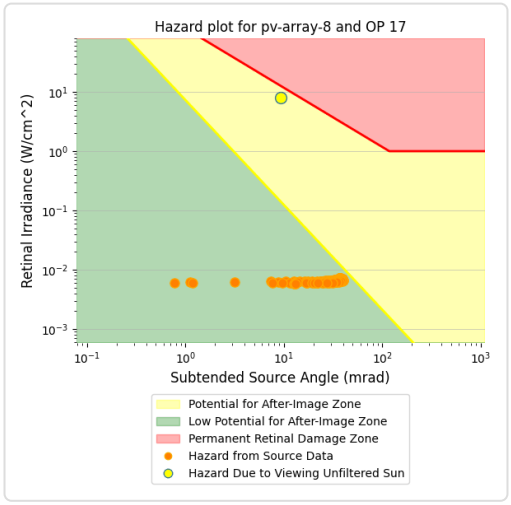
PV array 8 and OP 17

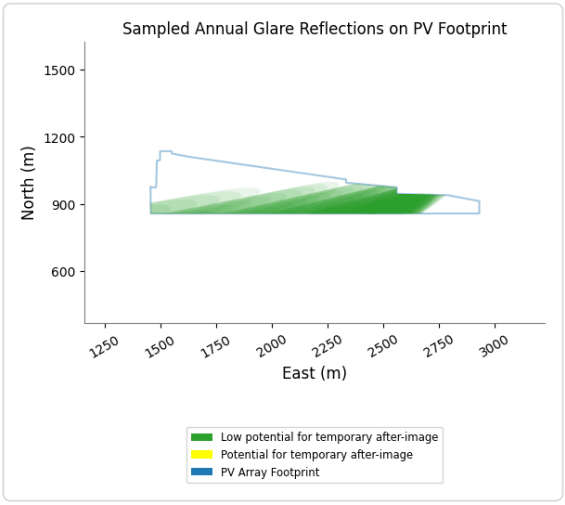
Yellow glare: none

Green glare: 123 min.





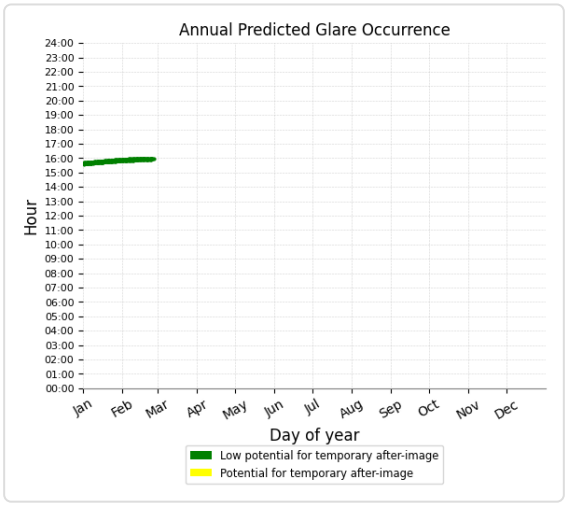


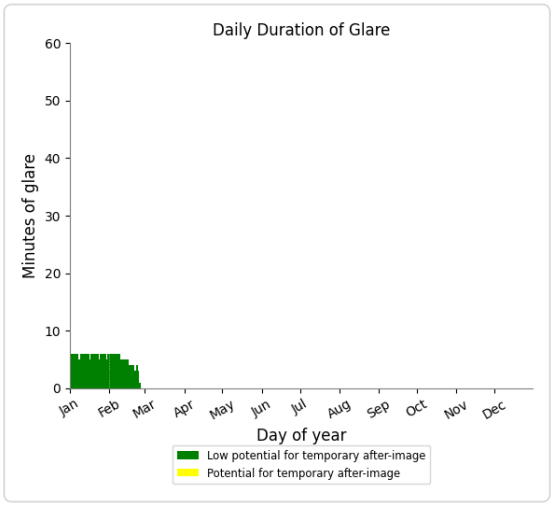


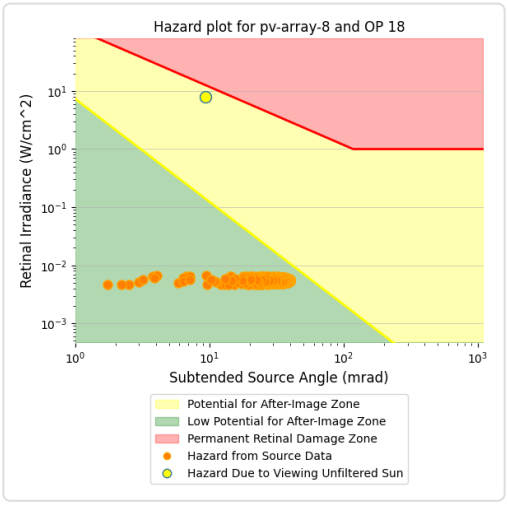
PV array 8 and OP 18

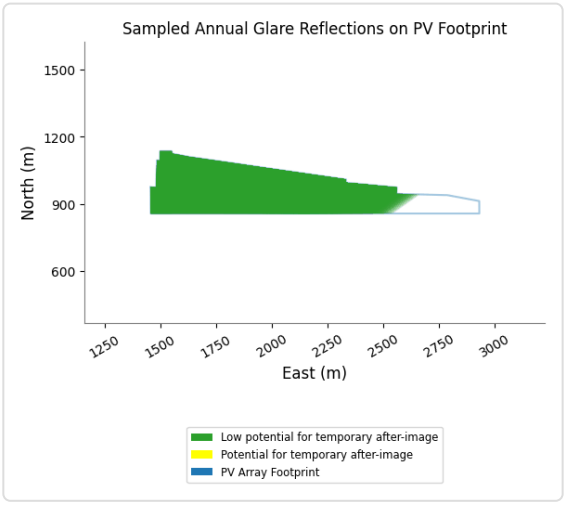
Yellow glare: none

Green glare: 300 min.





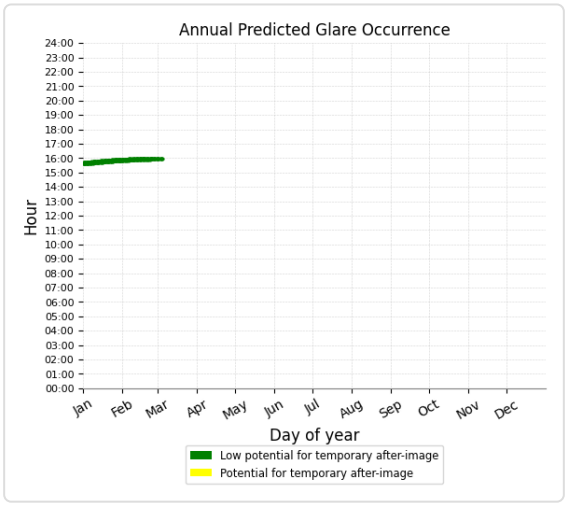


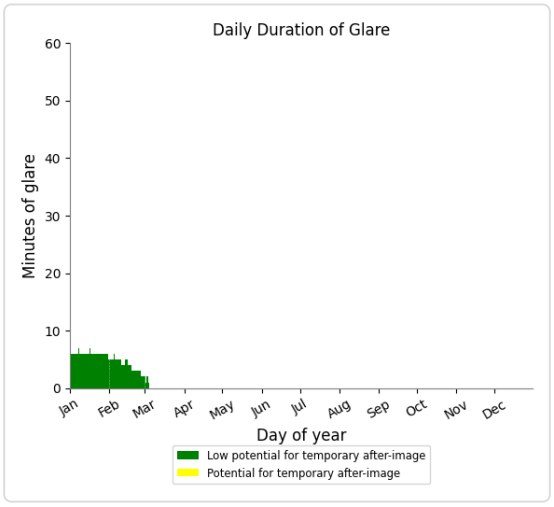


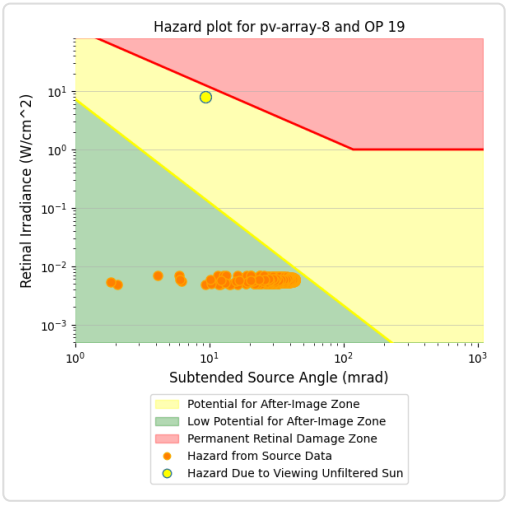
PV array 8 and OP 19

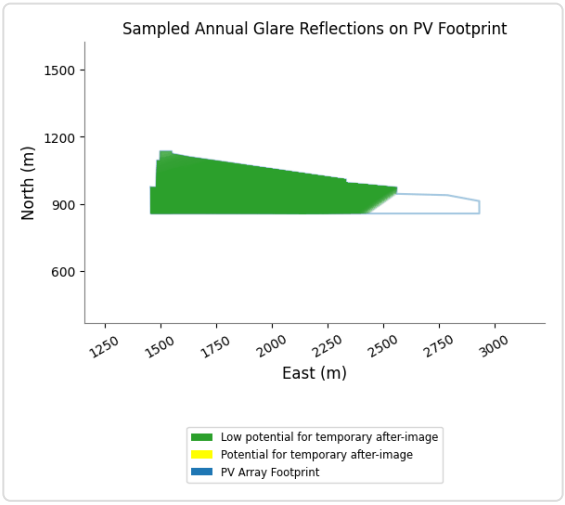
Yellow glare: none

Green glare: 306 min.





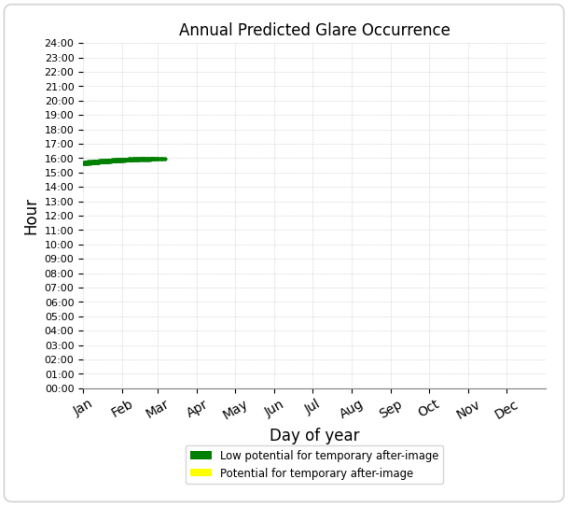


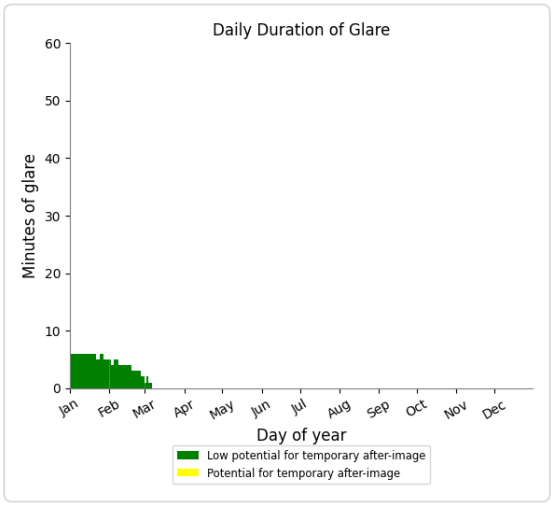


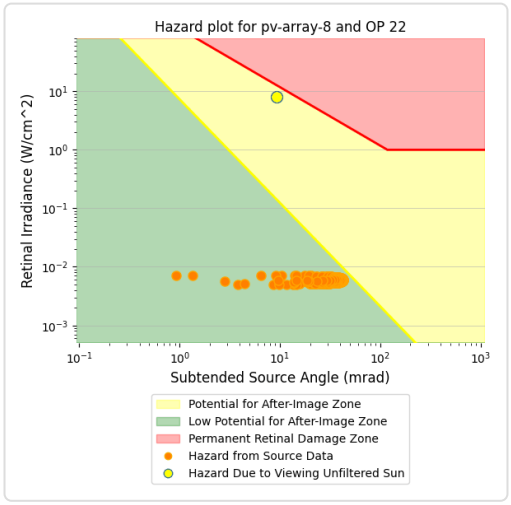
PV array 8 and OP 22

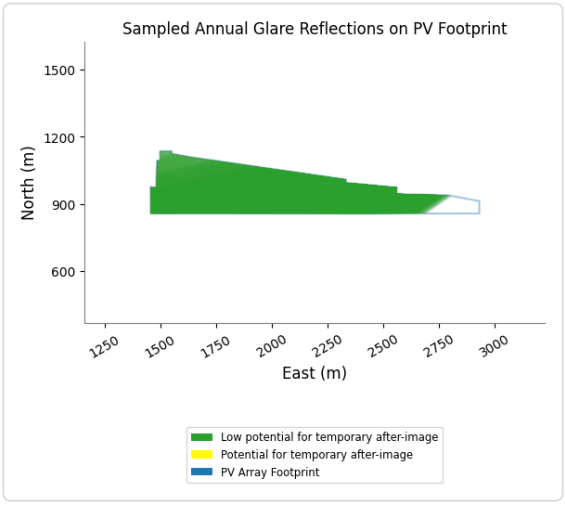
Yellow glare: none

Green glare: 290 min.





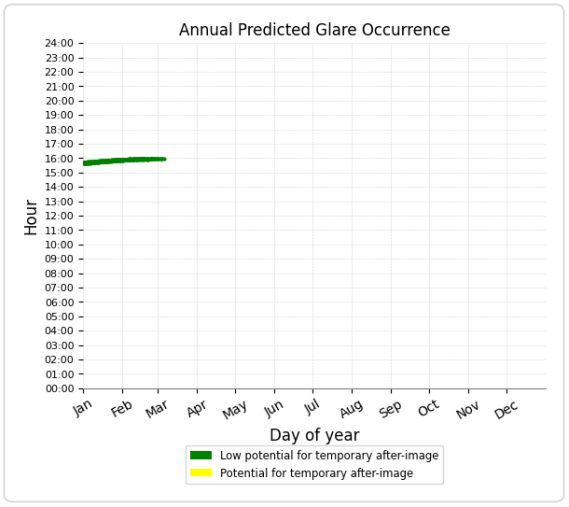


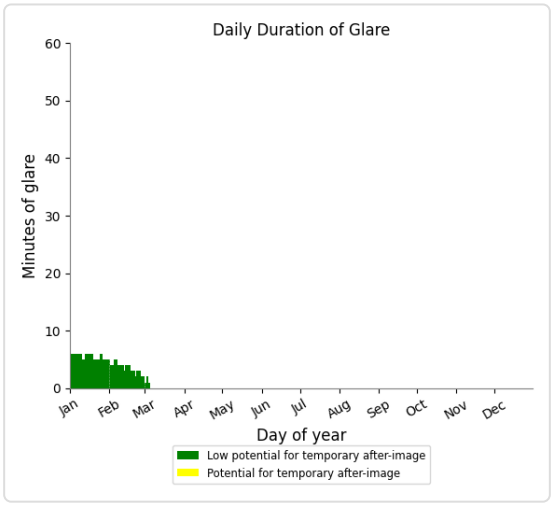


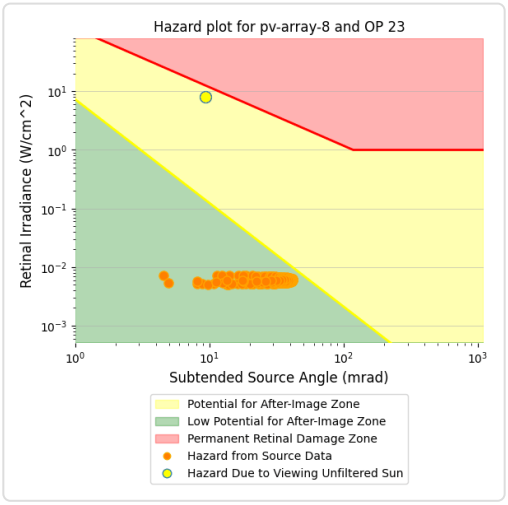
PV array 8 and OP 23

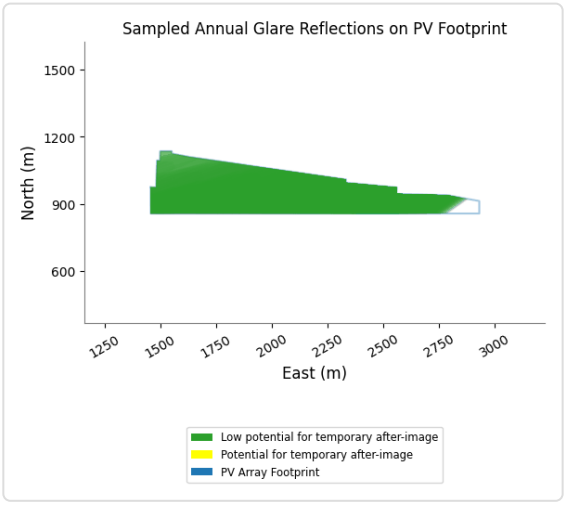
Yellow glare: none

Green glare: 280 min.





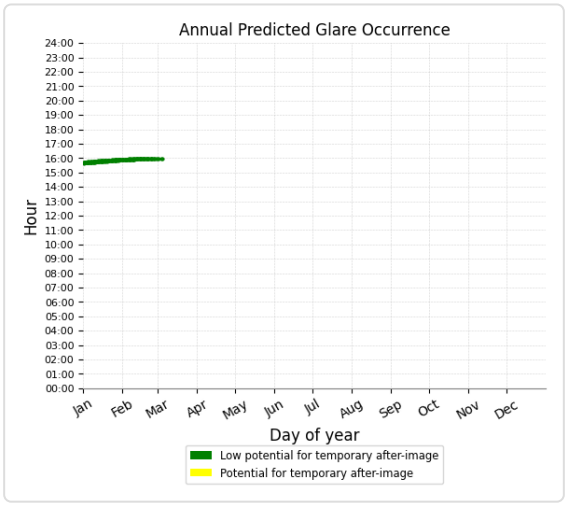


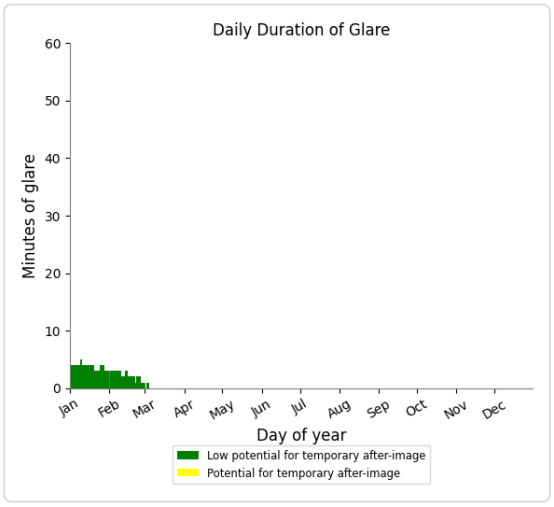


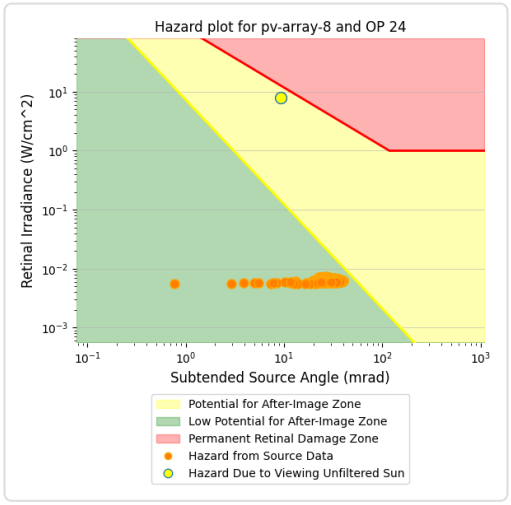
PV array 8 and OP 24

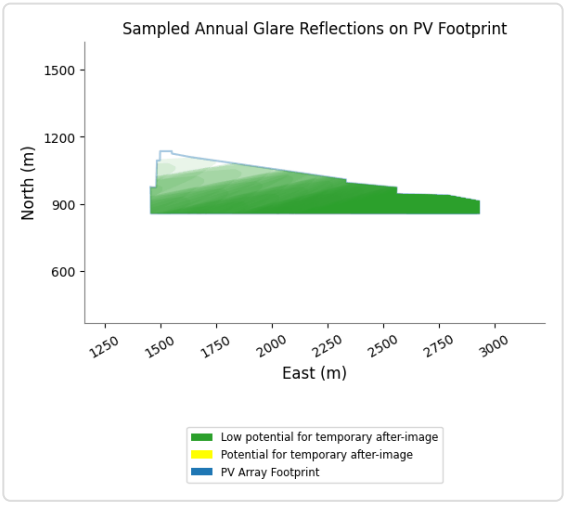
Yellow glare: none

Green glare: 185 min.



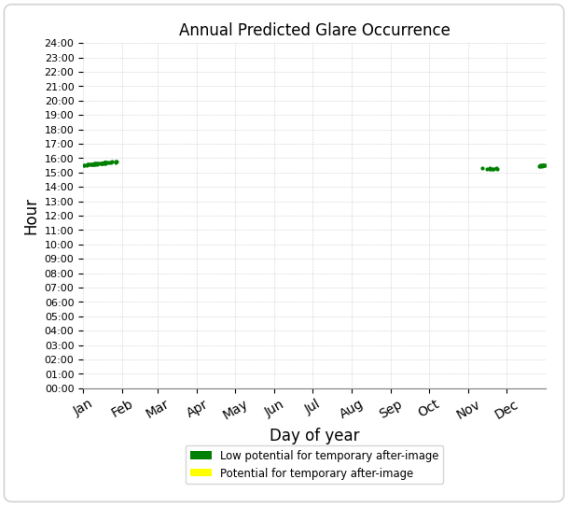


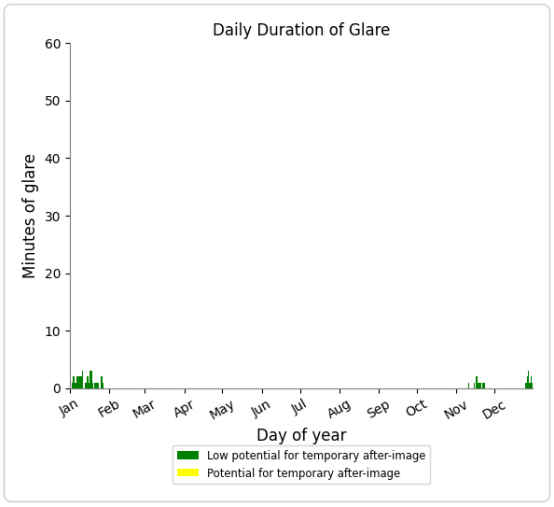


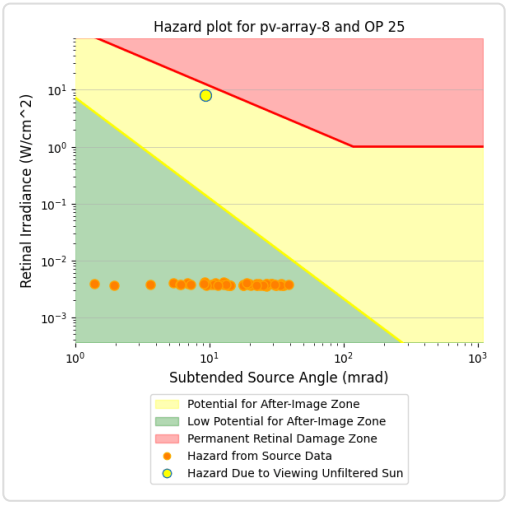


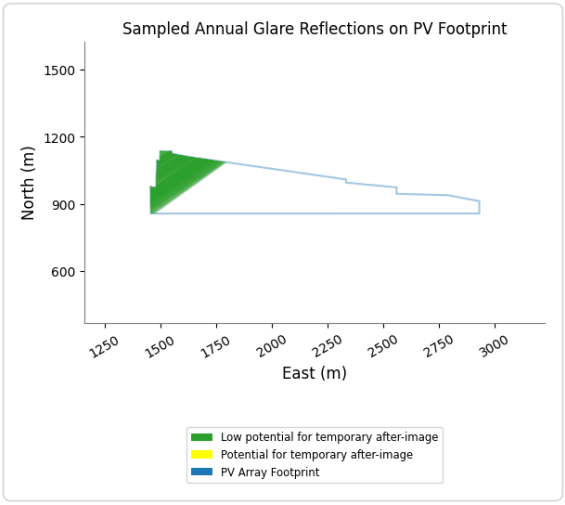
PV array 8 and OP 25

Yellow glare: none
Green glare: 55 min.









PV array 8 and OP 1

No glare found

PV array 8 and OP 2

No glare found

PV array 8 and OP 3

No glare found

PV array 8 and OP 4

No glare found

PV array 8 and OP 5

No glare found

PV array 8 and OP 6

No glare found

PV array 8 and OP 7

No glare found

PV array 8 and OP 8

No glare found

PV array 8 and OP 20

No glare found

PV array 8 and OP 21

No glare found

PV array 8 and OP 26

No glare found

PV array 8 and OP 27

No glare found

PV array 8 and OP 28

No glare found

PV array 8 and OP 29

No glare found

PV array 8 and OP 30

No glare found

PV array 8 and OP 31

No glare found

PV array 8 and OP 32

No glare found

PV array 8 and OP 33

No glare found

PV: PV array 9 no glare found

Receptor results ordered by category of glare

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

PV array 9 and Route: Avenue Road

No glare found

PV array 9 and Route: Main Camp Road

No glare found

PV array 9 and OP 1

No glare found

PV array 9 and OP 2

No glare found

PV array 9 and OP 3

No glare found

PV array 9 and OP 4

No glare found

PV array 9 and OP 5

No glare found

PV array 9 and OP 6

No glare found

PV array 9 and OP 7

No glare found

PV array 9 and OP 8

No glare found

PV array 9 and OP 9

No glare found

PV array 9 and OP 10

No glare found

PV array 9 and OP 11

No glare found

PV array 9 and OP 12

No glare found

PV array 9 and OP 13

No glare found

PV array 9 and OP 14

No glare found

PV array 9 and OP 15

No glare found

PV array 9 and OP 16

No glare found

PV array 9 and OP 17

No glare found

PV array 9 and OP 18

No glare found

PV array 9 and OP 19

No glare found

PV array 9 and OP 20

No glare found

PV array 9 and OP 21

No glare found

PV array 9 and OP 22

No glare found

PV array 9 and OP 23

No glare found

PV array 9 and OP 24

No glare found

PV array 9 and OP 25

No glare found

PV array 9 and OP 26

No glare found

PV array 9 and OP 27

No glare found

PV array 9 and OP 28

No glare found

PV array 9 and OP 29

No glare found

PV array 9 and OP 30

No glare found

PV array 9 and OP 31

No glare found

PV array 9 and OP 32

No glare found

PV array 9 and OP 33

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.
Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.
Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.
The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.
The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.
The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.
The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
Refer to the Help page at **www.forgesolar.com/help/** for assumptions and limitations not listed here.

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

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

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Glint and Glare Assessment Results Attachment B - Scenario 4

FORGESOLAR GLARE ANALYSIS

Project: **2320 Richmond Valley Solar Farm**
Site configuration: **2320 Richmond Valley 45d Resting Angle 20231211**

Created 11 Dec, 2023
Updated 18 Dec, 2023
Time-step 1 minute
Timezone offset UTC10
Minimum sun altitude 0.0 deg
DNI peaks at 1,000.0 W/m^2
Category 100 MW to 1 GW
Site ID 107580.18000

Ocular transmission coefficient 0.5
Pupil diameter 0.002 m
Eye focal length 0.017 m
Sun subtended angle 9.3 mrad
PV analysis methodology V2

Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	21,770	362.8	4,186	69.8	-
PV array 15	SA tracking	SA tracking	584	9.7	127	2.1	-
PV array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 19	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 23	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 8	SA tracking	SA tracking	4,334	72.2	19	0.3	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	15,275	254.6	4,205	70.1

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	838	14.0	127	2.1
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	261	4.3	0	0.0
OP 10	57	0.9	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	148	2.5	0	0.0
OP 16	488	8.1	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 20	0	0.0	0	0.0
OP 21	297	5.0	0	0.0
OP 22	290	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	55	0.9	0	0.0
OP 26	1,650	27.5	0	0.0
OP 27	1,608	26.8	0	0.0
OP 28	1,469	24.5	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	2,081	34.7	0	0.0

Component Data

PV Arrays

Name: PV array 1
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.101325	153.019581	366.24	2.50	368.74
2	-29.101319	153.022208	373.42	2.50	375.92
3	-29.101675	153.022244	322.35	2.50	324.85
4	-29.101686	153.024706	312.51	2.50	315.01
5	-29.102036	153.024742	303.12	2.50	305.62
6	-29.102033	153.026689	299.33	2.50	301.83
7	-29.102411	153.026725	328.19	2.50	330.69
8	-29.102419	153.028128	322.49	2.50	324.99
9	-29.103497	153.028139	354.56	2.50	357.06
10	-29.103500	153.028281	326.46	2.50	328.96
11	-29.104558	153.028281	314.31	2.50	316.81
12	-29.104567	153.026794	364.57	2.50	367.07
13	-29.104200	153.026775	369.06	2.50	371.56
14	-29.104211	153.025361	350.76	2.50	353.26
15	-29.103472	153.025344	337.49	2.50	339.99
16	-29.103472	153.019586	354.43	2.50	356.93

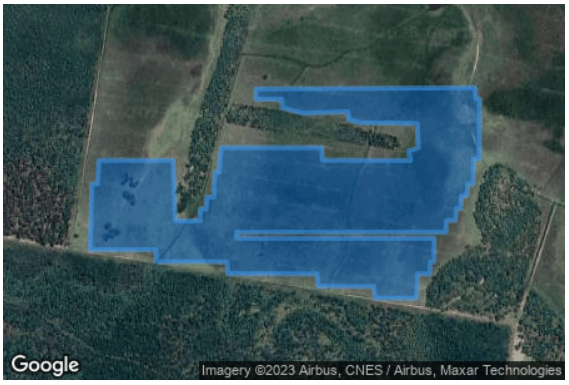
Name: PV array 10
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096789	153.033475	67.12	2.50	69.62
2	-29.096789	153.033625	94.58	2.50	97.08
3	-29.096086	153.033664	83.67	2.50	86.17
4	-29.096069	153.048192	86.35	2.50	88.85
5	-29.096428	153.048178	86.17	2.50	88.67
6	-29.096431	153.047381	77.50	2.50	80.00
7	-29.096778	153.047358	70.21	2.50	72.71
8	-29.096778	153.046492	64.01	2.50	66.51
9	-29.097136	153.046467	57.37	2.50	59.87
10	-29.097136	153.045553	58.92	2.50	61.42
11	-29.097508	153.045553	44.73	2.50	47.23
12	-29.097514	153.044489	51.53	2.50	54.03
13	-29.097786	153.044467	54.99	2.50	57.49
14	-29.097864	153.043553	60.25	2.50	62.75
15	-29.098228	153.043531	57.21	2.50	59.71
16	-29.098236	153.041514	58.17	2.50	60.67
17	-29.098608	153.041486	51.15	2.50	53.65
18	-29.098619	153.033442	60.48	2.50	62.98

Name: PV array 15
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

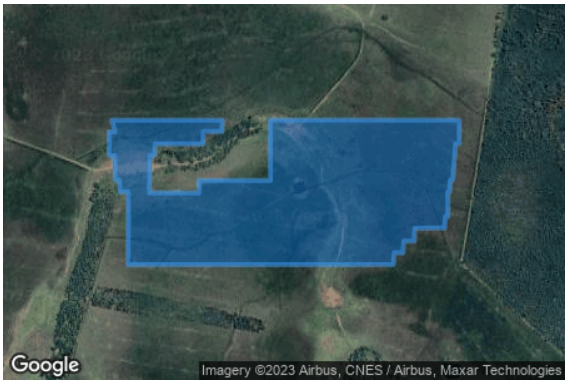
Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102156	153.044086	58.73	2.50	61.23
2	-29.102156	153.047328	63.32	2.50	65.82
3	-29.102194	153.047328	95.21	2.50	97.71
4	-29.102194	153.058594	119.73	2.50	122.23
5	-29.102550	153.058617	84.51	2.50	87.01
6	-29.102550	153.058697	82.32	2.50	84.82
7	-29.103253	153.058700	86.95	2.50	89.45
8	-29.103253	153.058464	98.42	2.50	100.92
9	-29.103636	153.058431	85.79	2.50	88.29
10	-29.103636	153.058125	71.39	2.50	73.89
11	-29.104347	153.058089	63.19	2.50	65.69
12	-29.104347	153.057872	68.64	2.50	71.14
13	-29.105078	153.057872	75.02	2.50	77.52
14	-29.105080	153.057786	73.92	2.50	76.42
15	-29.105431	153.057761	95.27	2.50	97.77
16	-29.105431	153.057622	95.06	2.50	97.56
17	-29.106164	153.057597	96.25	2.50	98.75
18	-29.106167	153.057461	85.20	2.50	87.70
19	-29.106514	153.057433	78.67	2.50	81.17
20	-29.106514	153.057292	76.66	2.50	79.16
21	-29.107410	153.057270	69.71	2.50	72.21
22	-29.107410	153.057190	70.70	2.50	73.20
23	-29.107760	153.057150	76.15	2.50	78.65
24	-29.107770	153.056900	69.23	2.50	71.73
25	-29.108870	153.056840	63.91	2.50	66.41
26	-29.108840	153.054250	69.03	2.50	71.53
27	-29.106690	153.054260	67.10	2.50	69.60
28	-29.106700	153.054510	61.84	2.50	64.34
29	-29.105460	153.054540	51.44	2.50	53.94
30	-29.105460	153.054670	46.48	2.50	48.98
31	-29.103650	153.054660	44.11	2.50	46.61
32	-29.103650	153.053990	50.89	2.50	53.39
33	-29.103260	153.053990	55.01	2.50	57.51
34	-29.103260	153.051930	50.62	2.50	53.12
35	-29.102900	153.051890	64.22	2.50	66.72
36	-29.102900	153.046260	78.81	2.50	81.31
37	-29.102530	153.046260	69.88	2.50	72.38
38	-29.102531	153.044111	81.44	2.50	83.94

Name: PV array 16
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109583	153.053697	35.88	2.50	38.38
2	-29.109580	153.053892	35.82	2.50	38.32
3	-29.108872	153.053936	34.22	2.50	36.72
4	-29.108872	153.056486	35.80	2.50	38.30
5	-29.110681	153.056581	33.60	2.50	36.10
6	-29.110680	153.057408	33.51	2.50	36.01
7	-29.110322	153.057431	33.12	2.50	35.62
8	-29.110333	153.057622	33.65	2.50	36.15
9	-29.109972	153.057656	34.81	2.50	37.31
10	-29.109969	153.057892	35.48	2.50	37.98
11	-29.109233	153.057922	37.27	2.50	39.77
12	-29.109230	153.058064	37.55	2.50	40.05
13	-29.108494	153.058144	37.24	2.50	39.74
14	-29.108494	153.061594	35.21	2.50	37.71
15	-29.108867	153.061622	34.11	2.50	36.61
16	-29.108875	153.064650	30.58	2.50	33.08
17	-29.108597	153.064578	31.08	2.50	33.58
18	-29.108494	153.064914	30.76	2.50	33.26
19	-29.107772	153.064875	32.09	2.50	34.59
20	-29.107750	153.062925	30.39	2.50	32.89
21	-29.107664	153.062525	32.23	2.50	34.73
22	-29.107419	153.062503	32.17	2.50	34.67
23	-29.107467	153.060950	34.16	2.50	36.66
24	-29.107297	153.060244	33.94	2.50	36.44
25	-29.107050	153.060219	33.92	2.50	36.42
26	-29.107044	153.059328	34.04	2.50	36.54
27	-29.106736	153.059336	34.04	2.50	36.54
28	-29.106700	153.066869	31.79	2.50	34.29
29	-29.107036	153.066903	31.47	2.50	33.97
30	-29.107036	153.067019	31.60	2.50	34.10
31	-29.108842	153.067022	33.82	2.50	36.32
32	-29.108842	153.066803	33.30	2.50	35.80
33	-29.109572	153.066800	34.25	2.50	36.75
34	-29.109570	153.066614	33.70	2.50	36.20
35	-29.109936	153.066586	34.18	2.50	36.68
36	-29.109940	153.066383	33.57	2.50	36.07
37	-29.110311	153.066380	34.11	2.50	36.61
38	-29.110310	153.066217	33.64	2.50	36.14
39	-29.110669	153.066192	34.08	2.50	36.58
40	-29.110675	153.065881	33.18	2.50	35.68
41	-29.111028	153.065858	33.66	2.50	36.16
42	-29.111028	153.058667	34.00	2.50	36.50
43	-29.111203	153.058667	34.00	2.50	36.50
44	-29.111203	153.065461	33.51	2.50	36.01
45	-29.111908	153.065461	35.73	2.50	38.23
46	-29.111908	153.065331	35.54	2.50	38.04
47	-29.112269	153.065303	35.50	2.50	38.00
48	-29.112270	153.064894	35.16	2.50	37.66
49	-29.112997	153.064853	35.92	2.50	38.42
50	-29.112997	153.063419	33.64	2.50	36.14
51	-29.112650	153.063394	34.07	2.50	36.57
52	-29.112639	153.061467	31.62	2.50	34.12
53	-29.112269	153.061444	32.22	2.50	34.72
54	-29.112264	153.058369	34.15	2.50	36.65
55	-29.111908	153.058342	34.08	2.50	36.58
56	-29.111908	153.055928	33.83	2.50	36.33
57	-29.111547	153.055900	33.61	2.50	36.11
58	-29.111550	153.053644	40.15	2.50	42.65

Name: PV array 17
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102197	153.059017	39.95	2.50	42.45
2	-29.102194	153.062817	37.76	2.50	40.26
3	-29.102533	153.062803	35.96	2.50	38.46
4	-29.102539	153.062167	38.22	2.50	40.72
5	-29.102906	153.062150	38.04	2.50	40.54
6	-29.102910	153.060506	39.98	2.50	42.48
7	-29.103247	153.060483	38.09	2.50	40.59
8	-29.103253	153.060331	35.83	2.50	38.33
9	-29.104367	153.060311	35.23	2.50	37.73
10	-29.104375	153.062003	35.00	2.50	37.50
11	-29.103994	153.062019	35.26	2.50	37.76
12	-29.104000	153.064469	35.33	2.50	37.83
13	-29.102194	153.064467	41.33	2.50	43.83
14	-29.102194	153.070958	35.53	2.50	38.03
15	-29.102900	153.070964	31.99	2.50	34.49
16	-29.102900	153.070833	34.31	2.50	36.81
17	-29.103986	153.070736	38.09	2.50	40.59
18	-29.103992	153.070656	36.86	2.50	39.36
19	-29.104342	153.070622	35.58	2.50	38.08
20	-29.104344	153.070567	35.32	2.50	37.82
21	-29.105078	153.070575	39.57	2.50	42.07
22	-29.105080	153.070486	39.78	2.50	42.28
23	-29.105425	153.070458	37.46	2.50	39.96
24	-29.105431	153.069433	34.45	2.50	36.95
25	-29.105819	153.069408	43.72	2.50	46.22
26	-29.105819	153.069053	44.69	2.50	47.19
27	-29.106167	153.069022	39.39	2.50	41.89
28	-29.106167	153.068725	33.07	2.50	35.57
29	-29.106519	153.068689	38.03	2.50	40.53
30	-29.106520	153.059578	36.08	2.50	38.58
31	-29.104344	153.059583	36.72	2.50	39.22
32	-29.104347	153.059308	37.07	2.50	39.57
33	-29.103989	153.059278	37.85	2.50	40.35
34	-29.103989	153.059139	38.21	2.50	40.71
35	-29.103253	153.059111	40.68	2.50	43.18
36	-29.103253	153.058922	39.83	2.50	42.33
37	-29.102544	153.058922	38.08	2.50	40.58
38	-29.102544	153.059133	37.66	2.50	40.16

Name: PV array 18
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109586	153.069572	30.93	2.50	33.43
2	-29.109592	153.071361	29.24	2.50	31.74
3	-29.109972	153.071386	29.96	2.50	32.46
4	-29.109978	153.072467	30.00	2.50	32.50
5	-29.110311	153.072500	30.00	2.50	32.50
6	-29.110319	153.073303	31.15	2.50	33.65
7	-29.110672	153.073361	30.64	2.50	33.14
8	-29.112108	153.073353	28.68	2.50	31.18
9	-29.112119	153.072439	30.64	2.50	33.14
10	-29.112300	153.072442	30.87	2.50	33.37
11	-29.112300	153.074256	29.00	2.50	31.50
12	-29.112653	153.074275	29.74	2.50	32.24
13	-29.112661	153.074633	29.77	2.50	32.27
14	-29.113006	153.074628	30.79	2.50	33.29
15	-29.113006	153.076522	29.89	2.50	32.39
16	-29.112797	153.076511	29.59	2.50	32.09
17	-29.112797	153.078297	26.43	2.50	28.93
18	-29.113372	153.078353	27.13	2.50	29.63
19	-29.114981	153.078347	29.88	2.50	32.38
20	-29.114969	153.078094	29.97	2.50	32.47
21	-29.115317	153.078075	30.26	2.50	32.76
22	-29.115320	153.076460	34.27	2.50	36.77
23	-29.115528	153.076456	33.21	2.50	35.71
24	-29.115525	153.070742	31.94	2.50	34.44
25	-29.114467	153.070742	30.74	2.50	33.24
26	-29.114467	153.070797	30.48	2.50	32.98
27	-29.113725	153.070797	30.05	2.50	32.55
28	-29.113725	153.070239	31.57	2.50	34.07
29	-29.113350	153.070219	31.26	2.50	33.76
30	-29.113350	153.070125	31.37	2.50	33.87
31	-29.113000	153.070100	31.06	2.50	33.56
32	-29.113000	153.069572	31.53	2.50	34.03

Name: PV array 19
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.095008	153.049878	30.65	2.50	33.15
2	-29.095006	153.067636	55.88	2.50	58.38
3	-29.095361	153.067678	52.05	2.50	54.55
4	-29.095372	153.070639	54.94	2.50	57.44
5	-29.095722	153.070672	51.58	2.50	54.08
6	-29.095733	153.071469	49.76	2.50	52.26
7	-29.097678	153.071458	43.37	2.50	45.87
8	-29.097692	153.071583	43.76	2.50	46.26
9	-29.099842	153.071569	35.11	2.50	37.61
10	-29.099842	153.071353	33.97	2.50	36.47
11	-29.100928	153.071347	33.60	2.50	36.10
12	-29.100928	153.071208	33.60	2.50	36.10
13	-29.101667	153.071186	35.03	2.50	37.53
14	-29.101658	153.071047	35.08	2.50	37.58
15	-29.102022	153.071031	35.02	2.50	37.52
16	-29.102020	153.047342	32.77	2.50	35.27
17	-29.102114	153.047336	32.68	2.50	35.18
18	-29.102111	153.044069	34.04	2.50	36.54
19	-29.102019	153.044086	34.00	2.50	36.50
20	-29.102014	153.039336	38.65	2.50	41.15
21	-29.099867	153.039331	37.84	2.50	40.34
22	-29.099861	153.040528	36.06	2.50	38.56
23	-29.099494	153.040547	35.30	2.50	37.80
24	-29.099494	153.043892	32.13	2.50	34.63
25	-29.100950	153.043914	33.56	2.50	36.06
26	-29.100958	153.045236	34.06	2.50	36.56
27	-29.100580	153.045280	34.35	2.50	36.85
28	-29.100570	153.046140	33.76	2.50	36.26
29	-29.100220	153.046170	35.46	2.50	37.96
30	-29.100220	153.046440	35.17	2.50	37.67
31	-29.100570	153.046470	33.65	2.50	36.15
32	-29.100570	153.046810	33.54	2.50	36.04
33	-29.100220	153.046830	34.76	2.50	37.26
34	-29.100220	153.048570	34.30	2.50	36.80
35	-29.099860	153.048580	34.26	2.50	36.76
36	-29.099860	153.055040	30.23	2.50	32.73
37	-29.097520	153.055040	29.19	2.50	31.69
38	-29.097508	153.049244	29.61	2.50	32.11
39	-29.096461	153.049253	28.44	2.50	30.94

Name: PV array 2
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103011	153.028981	45.87	2.50	48.37
2	-29.103033	153.031867	42.45	2.50	44.95
3	-29.105117	153.031872	39.58	2.50	42.08
4	-29.105139	153.029231	43.48	2.50	45.98
5	-29.104064	153.029211	43.73	2.50	46.23
6	-29.104044	153.028956	41.58	2.50	44.08

Name: PV array 20
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.097756	153.046586	30.04	2.50	32.54
2	-29.097722	153.046661	30.51	2.50	33.01
3	-29.097722	153.050819	31.18	2.50	33.68
4	-29.098397	153.050817	30.55	2.50	33.05
5	-29.098400	153.050675	29.78	2.50	32.28
6	-29.098433	153.050681	29.76	2.50	32.26
7	-29.098430	153.049186	29.93	2.50	32.43
8	-29.098747	153.049158	31.20	2.50	33.70
9	-29.098744	153.049008	30.31	2.50	32.81
10	-29.098781	153.048992	30.37	2.50	32.87
11	-29.098789	153.045769	30.60	2.50	33.10
12	-29.098081	153.045769	31.10	2.50	33.60
13	-29.098089	153.046567	32.80	2.50	35.30

Name: PV array 21
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.115711	153.068300	41.50	2.50	44.00
2	-29.115708	153.077564	41.51	2.50	44.01
3	-29.116775	153.077617	41.78	2.50	44.28
4	-29.116775	153.077372	41.72	2.50	44.22
5	-29.117500	153.077344	41.23	2.50	43.73
6	-29.117500	153.077214	40.70	2.50	43.20
7	-29.117853	153.077178	40.00	2.50	42.50
8	-29.117858	153.077039	40.44	2.50	42.94
9	-29.118383	153.077014	41.50	2.50	44.00
10	-29.118383	153.076644	41.18	2.50	43.68
11	-29.118739	153.076631	40.28	2.50	42.78
12	-29.118739	153.075653	39.12	2.50	41.62
13	-29.119083	153.075622	38.34	2.50	40.84
14	-29.119083	153.072625	39.10	2.50	41.60
15	-29.118736	153.072594	40.48	2.50	42.98
16	-29.118736	153.068858	40.41	2.50	42.91
17	-29.118383	153.068831	42.05	2.50	44.55
18	-29.118383	153.067967	42.40	2.50	44.90
19	-29.116806	153.067970	42.22	2.50	44.72
20	-29.116810	153.068106	42.02	2.50	44.52
21	-29.116053	153.068131	41.65	2.50	44.15
22	-29.116050	153.068272	42.27	2.50	44.77

Name: PV array 22
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.119964	153.067553	34.62	2.50	37.12
2	-29.119931	153.071286	34.59	2.50	37.09
3	-29.120281	153.071325	33.95	2.50	36.45
4	-29.120344	153.073556	31.66	2.50	34.16
5	-29.120458	153.073553	31.39	2.50	33.89
6	-29.120464	153.075878	34.40	2.50	36.90
7	-29.120114	153.075856	33.35	2.50	35.85
8	-29.120114	153.078875	29.83	2.50	32.33
9	-29.120853	153.078881	29.81	2.50	32.31
10	-29.120853	153.078372	29.48	2.50	31.98
11	-29.121589	153.078375	30.72	2.50	33.22
12	-29.121597	153.077969	30.34	2.50	32.84
13	-29.121947	153.077806	30.38	2.50	32.88
14	-29.121947	153.077344	29.07	2.50	31.57
15	-29.122303	153.077336	29.04	2.50	31.54
16	-29.122294	153.075361	32.04	2.50	34.54
17	-29.121594	153.075361	34.77	2.50	37.27
18	-29.121586	153.073336	29.42	2.50	31.92
19	-29.121239	153.073328	29.58	2.50	32.08
20	-29.121294	153.070856	32.46	2.50	34.96
21	-29.121714	153.070683	31.91	2.50	34.41
22	-29.121714	153.070081	32.74	2.50	35.24
23	-29.122067	153.069833	32.73	2.50	35.23
24	-29.122103	153.067342	29.46	2.50	31.96
25	-29.121022	153.067347	32.75	2.50	35.25
26	-29.121022	153.067553	32.13	2.50	34.63

Name: PV array 23
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.114775	153.080247	54.75	2.50	57.25
2	-29.114775	153.080583	53.92	2.50	56.42
3	-29.115122	153.080614	56.19	2.50	58.69
4	-29.115125	153.080961	59.96	2.50	62.46
5	-29.115822	153.080961	55.06	2.50	57.56
6	-29.115822	153.080836	49.55	2.50	52.05
7	-29.116564	153.080797	49.76	2.50	52.26
8	-29.116564	153.080217	46.19	2.50	48.69
9	-29.116928	153.080192	43.83	2.50	46.33
10	-29.116928	153.079286	43.59	2.50	46.09
11	-29.117444	153.079256	45.43	2.50	47.93
12	-29.117444	153.078672	40.64	2.50	43.14
13	-29.117797	153.078642	41.60	2.50	44.10
14	-29.117797	153.078194	41.85	2.50	44.35
15	-29.117103	153.078194	41.39	2.50	43.89
16	-29.117103	153.078386	41.00	2.50	43.50
17	-29.116203	153.078425	51.19	2.50	53.69
18	-29.116208	153.078614	48.69	2.50	51.19
19	-29.115853	153.078644	55.75	2.50	58.25
20	-29.115853	153.079003	60.58	2.50	63.08
21	-29.115475	153.079028	56.40	2.50	58.90
22	-29.115481	153.079553	48.27	2.50	50.77
23	-29.115125	153.079589	49.11	2.50	51.61
24	-29.115128	153.080219	57.49	2.50	59.99

Name: PV array 3
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103158	153.033744	37.67	2.50	40.17
2	-29.103161	153.034311	44.09	2.50	46.59
3	-29.103506	153.034347	49.91	2.50	52.41
4	-29.103506	153.035361	50.39	2.50	52.89
5	-29.103864	153.035389	48.02	2.50	50.52
6	-29.103864	153.035694	46.05	2.50	48.55
7	-29.104236	153.035733	43.39	2.50	45.89
8	-29.104242	153.036075	41.79	2.50	44.29
9	-29.105681	153.036081	43.07	2.50	45.57
10	-29.105678	153.035300	40.37	2.50	42.87
11	-29.105300	153.035261	38.35	2.50	40.85
12	-29.105300	153.033747	38.15	2.50	40.65

Name: PV array 4
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.100956	153.029697	61.70	2.50	64.20
2	-29.100960	153.033861	52.05	2.50	54.55
3	-29.102319	153.033872	41.22	2.50	43.72
4	-29.102206	153.029711	55.91	2.50	58.41

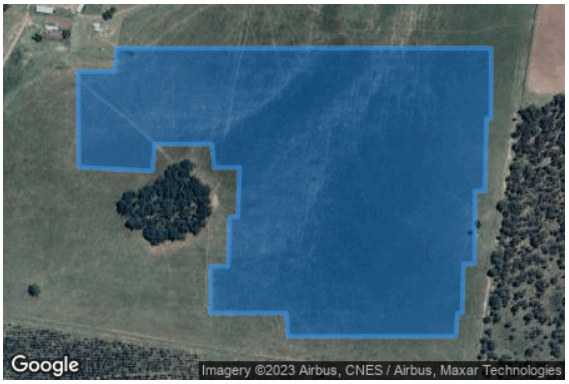
Name: PV array 5
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096244	153.020017	63.68	2.50	66.18
2	-29.096258	153.021258	58.95	2.50	61.45
3	-29.096144	153.021281	58.13	2.50	60.63
4	-29.096142	153.022628	52.57	2.50	55.07
5	-29.096497	153.022653	51.62	2.50	54.12
6	-29.096506	153.025769	53.56	2.50	56.06
7	-29.096856	153.025817	52.73	2.50	55.23
8	-29.096858	153.026111	52.97	2.50	55.47
9	-29.097494	153.026317	52.15	2.50	54.65
10	-29.097789	153.027056	53.44	2.50	55.94
11	-29.098275	153.027050	51.11	2.50	53.61
12	-29.098319	153.019792	51.02	2.50	53.52
13	-29.098064	153.019775	50.99	2.50	53.49
14	-29.097667	153.020156	52.49	2.50	54.99
15	-29.097636	153.020281	52.49	2.50	54.99
16	-29.096947	153.020283	54.63	2.50	57.13
17	-29.096931	153.020225	54.40	2.50	56.90
18	-29.096930	153.020225	52.63	2.50	55.13
19	-29.096930	153.020225	56.59	2.50	59.09

Name: PV array 6
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.098411	153.019708	52.49	2.50	54.99
2	-29.098410	153.022644	54.27	2.50	56.77
3	-29.098453	153.022644	54.17	2.50	56.67
4	-29.098453	153.025644	52.52	2.50	55.02
5	-29.098406	153.025644	52.52	2.50	55.02
6	-29.098410	153.026583	50.97	2.50	53.47
7	-29.098456	153.026583	50.96	2.50	53.46
8	-29.098460	153.028092	50.98	2.50	53.48
9	-29.098806	153.028111	49.50	2.50	52.00
10	-29.098814	153.028110	49.50	2.50	52.00
11	-29.100568	153.028106	43.03	2.50	45.53
12	-29.100578	153.028090	43.04	2.50	45.54
13	-29.100586	153.028083	43.04	2.50	45.54
14	-29.100586	153.024706	46.96	2.50	49.46
15	-29.100236	153.024675	47.84	2.50	50.34
16	-29.100236	153.024317	47.76	2.50	50.26
17	-29.099511	153.024286	51.07	2.50	53.57
18	-29.099503	153.021261	52.06	2.50	54.56
19	-29.099153	153.021256	51.64	2.50	54.14
20	-29.099147	153.019714	53.21	2.50	55.71

Name: PV array 7
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102553	153.036561	61.89	2.50	64.39
2	-29.102550	153.037192	57.69	2.50	60.19
3	-29.102203	153.037222	56.56	2.50	59.06
4	-29.102200	153.043656	57.79	2.50	60.29
5	-29.103258	153.043656	59.96	2.50	62.46
6	-29.103258	153.043578	60.09	2.50	62.59
7	-29.104339	153.043550	61.32	2.50	63.82
8	-29.104344	153.043381	63.82	2.50	66.32
9	-29.105428	153.043375	64.55	2.50	67.05
10	-29.105430	153.043181	65.16	2.50	67.66
11	-29.106169	153.043158	66.84	2.50	69.34
12	-29.106170	153.043078	69.07	2.50	71.57
13	-29.106517	153.043053	71.34	2.50	73.84
14	-29.106517	153.040167	72.19	2.50	74.69
15	-29.106167	153.040136	70.00	2.50	72.50
16	-29.106167	153.038839	69.02	2.50	71.52
17	-29.105467	153.038839	69.78	2.50	72.28
18	-29.105470	153.039136	74.83	2.50	77.33
19	-29.104728	153.039169	75.24	2.50	77.74
20	-29.104728	153.039303	72.87	2.50	75.37
21	-29.103992	153.039336	67.81	2.50	70.31
22	-29.103990	153.038897	63.04	2.50	65.54
23	-29.103636	153.038858	60.65	2.50	63.15
24	-29.103640	153.037875	61.34	2.50	63.84
25	-29.104042	153.037839	65.75	2.50	68.25
26	-29.103986	153.036569	63.73	2.50	66.23

Name: PV array 8
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.092536	153.034539	49.37	2.50	51.87
2	-29.092539	153.034797	46.57	2.50	49.07
3	-29.091453	153.034833	44.03	2.50	46.53
4	-29.091453	153.034972	42.10	2.50	44.60
5	-29.091078	153.034981	41.53	2.50	44.03
6	-29.091078	153.035514	38.85	2.50	41.35
7	-29.091175	153.035525	37.65	2.50	40.15
8	-29.091308	153.036322	36.36	2.50	38.86
9	-29.092222	153.043542	34.71	2.50	37.21
10	-29.092350	153.043533	33.71	2.50	36.21
11	-29.092544	153.045875	34.18	2.50	36.68
12	-29.092803	153.045858	35.67	2.50	38.17
13	-29.092858	153.048208	36.30	2.50	38.80
14	-29.093097	153.049672	36.65	2.50	39.15
15	-29.093600	153.049675	36.09	2.50	38.59
16	-29.093600	153.034550	36.90	2.50	39.40
17	-29.093600	153.034550	38.56	2.50	41.06
18	-29.093600	153.034550	40.09	2.50	42.59
19	-29.093600	153.034550	43.30	2.50	45.80
20	-29.093600	153.034550	46.85	2.50	49.35
21	-29.093600	153.034550	50.12	2.50	52.62
22	-29.093600	153.034550	50.80	2.50	53.30

Name: PV array 9
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 45.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.093742	153.034075	47.59	2.50	50.09
2	-29.093742	153.047911	29.17	2.50	31.67
3	-29.093636	153.047906	29.32	2.50	31.82
4	-29.093640	153.047924	29.32	2.50	31.82
5	-29.094433	153.049239	29.11	2.50	31.61
6	-29.094433	153.049097	29.00	2.50	31.50
7	-29.094797	153.049075	29.37	2.50	31.87
8	-29.094797	153.048883	29.37	2.50	31.87
9	-29.095178	153.048853	29.93	2.50	32.43
10	-29.095178	153.048714	29.93	2.50	32.43
11	-29.095531	153.048686	29.56	2.50	32.06
12	-29.095533	153.048492	29.56	2.50	32.06
13	-29.095894	153.048458	29.04	2.50	31.54
14	-29.095890	153.034044	50.01	2.50	52.51

Route Receptors

Name: Avenue Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.104310	153.008342	42.58	2.40	44.98
2	-29.100917	153.012869	48.57	2.40	50.97
3	-29.099510	153.019414	55.62	2.40	58.02
4	-29.101310	153.026194	44.13	2.40	46.53
5	-29.100501	153.029799	39.40	2.40	41.80
6	-29.100182	153.033833	38.23	2.40	40.63
7	-29.099919	153.034691	38.36	2.40	40.76
8	-29.099619	153.036214	38.31	2.40	40.71
9	-29.099788	153.037373	38.57	2.40	40.97
10	-29.098748	153.043470	32.00	2.40	34.40
11	-29.096820	153.048507	29.92	2.40	32.32
12	-29.092638	153.050803	31.00	2.40	33.40
13	-29.089901	153.051575	41.28	2.40	43.68
14	-29.088341	153.054683	47.04	2.40	49.44
15	-29.087047	153.056636	55.63	2.40	58.03
16	-29.086241	153.058610	59.01	2.40	61.41
17	-29.084685	153.059683	59.79	2.40	62.19

Name: Main Camp Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.130769	153.064031	35.05	2.40	37.45
2	-29.130881	153.067035	33.07	2.40	35.47
3	-29.130450	153.072142	26.52	2.40	28.92
4	-29.129644	153.084169	26.00	2.40	28.40

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (m)	Height (m)
OP 1	1	-29.098436	153.005919	57.00	1.50
OP 2	2	-29.098614	153.005617	58.18	1.50
OP 3	3	-29.098942	153.009817	58.46	1.50
OP 4	4	-29.104081	153.007164	43.97	1.50
OP 5	5	-29.105522	153.007317	42.09	1.50
OP 6	6	-29.104364	153.005417	45.19	1.50
OP 7	7	-29.105019	153.006536	45.10	1.50
OP 8	8	-29.117603	153.001347	38.65	1.50
OP 9	9	-29.083078	153.055558	73.37	1.50
OP 10	10	-29.076967	153.057103	64.26	1.50
OP 11	11	-29.080647	153.066289	49.73	1.50
OP 12	12	-29.083183	153.068906	49.76	1.50
OP 13	13	-29.080508	153.075694	58.03	1.50
OP 14	14	-29.072514	153.073319	58.38	1.50
OP 15	15	-29.079144	153.061150	62.76	1.50
OP 16	16	-29.084792	153.057350	64.28	1.50
OP 17	17	-29.087883	153.058739	46.82	1.50
OP 18	18	-29.081653	153.067194	53.77	1.50
OP 19	19	-29.085114	153.060258	60.28	1.50
OP 20	20	-29.090203	153.055103	40.01	1.50
OP 21	21	-29.106228	153.101144	34.31	1.50
OP 22	22	-29.084800	153.063742	69.22	1.50
OP 23	23	-29.084386	153.065572	66.41	1.50
OP 24	24	-29.084969	153.068331	50.01	1.50
OP 25	25	-29.081494	153.054019	74.64	1.50
OP 26	26	-29.131783	153.064194	34.19	1.50
OP 27	27	-29.132158	153.065619	34.34	1.50
OP 28	28	-29.131331	153.065711	36.18	1.50
OP 29	29	-29.138036	153.099008	43.00	1.50
OP 30	30	-29.134267	153.099875	41.44	1.50
OP 31	31	-29.138078	153.100536	38.27	1.50
OP 32	32	-29.132817	153.101467	42.08	1.50
OP 33	33	-29.134686	153.059939	31.67	1.50

Glare Analysis Results

Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	21,770	362.8	4,186	69.8	-
PV array 15	SA tracking	SA tracking	584	9.7	127	2.1	-
PV array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 19	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 23	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 8	SA tracking	SA tracking	4,334	72.2	19	0.3	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Avenue Road	15,275	254.6	4,205	70.1
Main Camp Road	838	14.0	127	2.1

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	261	4.3	0	0.0
OP 10	57	0.9	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	148	2.5	0	0.0
OP 16	488	8.1	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 20	0	0.0	0	0.0
OP 21	297	5.0	0	0.0
OP 22	290	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	55	0.9	0	0.0
OP 26	1,650	27.5	0	0.0
OP 27	1,608	26.8	0	0.0
OP 28	1,469	24.5	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	2,081	34.7	0	0.0

PV: PV array 1 no glare found

Receptor results ordered by category of glare

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

PV array 1 and Route: Avenue Road

No glare found

PV array 1 and Route: Main Camp Road

No glare found

PV array 1 and OP 1

No glare found

PV array 1 and OP 2

No glare found

PV array 1 and OP 3

No glare found

PV array 1 and OP 4

No glare found

PV array 1 and OP 5

No glare found

PV array 1 and OP 6

No glare found

PV array 1 and OP 7

No glare found

PV array 1 and OP 8

No glare found

PV array 1 and OP 9

No glare found

PV array 1 and OP 10

No glare found

PV array 1 and OP 11

No glare found

PV array 1 and OP 12

No glare found

PV array 1 and OP 13

No glare found

PV array 1 and OP 14

No glare found

PV array 1 and OP 15

No glare found

PV array 1 and OP 16

No glare found

PV array 1 and OP 17

No glare found

PV array 1 and OP 18

No glare found

PV array 1 and OP 19

No glare found

PV array 1 and OP 20

No glare found

PV array 1 and OP 21

No glare found

PV array 1 and OP 22

No glare found

PV array 1 and OP 23

No glare found

PV array 1 and OP 24

No glare found

PV array 1 and OP 25

No glare found

PV array 1 and OP 26

No glare found

PV array 1 and OP 27

No glare found

PV array 1 and OP 28

No glare found

PV array 1 and OP 29

No glare found

PV array 1 and OP 30

No glare found

PV array 1 and OP 31

No glare found

PV array 1 and OP 32

No glare found

PV array 1 and OP 33

No glare found

PV: PV array 10 potential temporary after-image

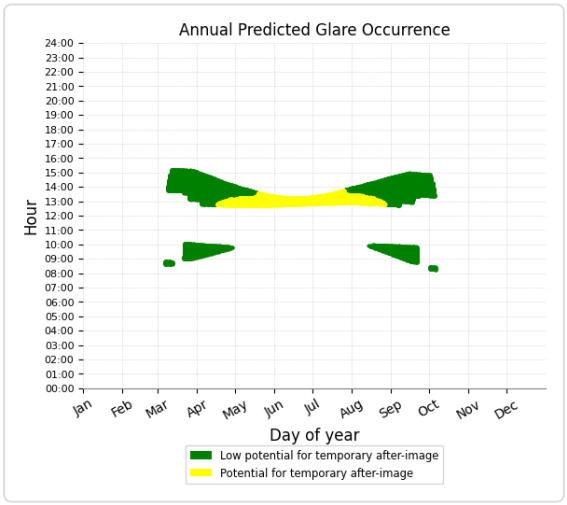
Receptor results ordered by category of glare

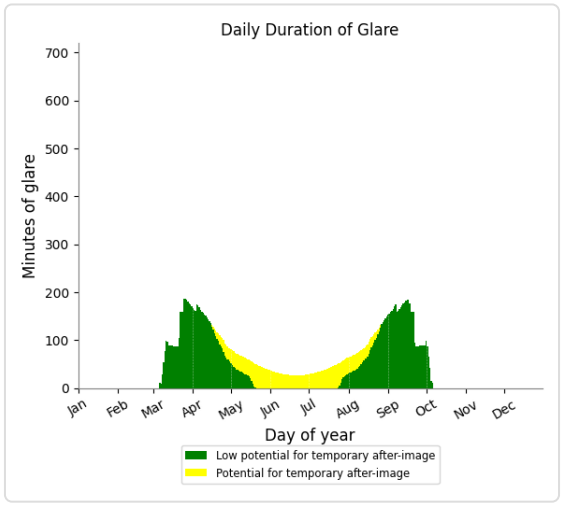
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	14,411	240.2	4,186	69.8
Main Camp Road	551	9.2	0	0.0
OP 26	1,650	27.5	0	0.0
OP 27	1,608	26.8	0	0.0
OP 28	1,469	24.5	0	0.0
OP 33	2,081	34.7	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0

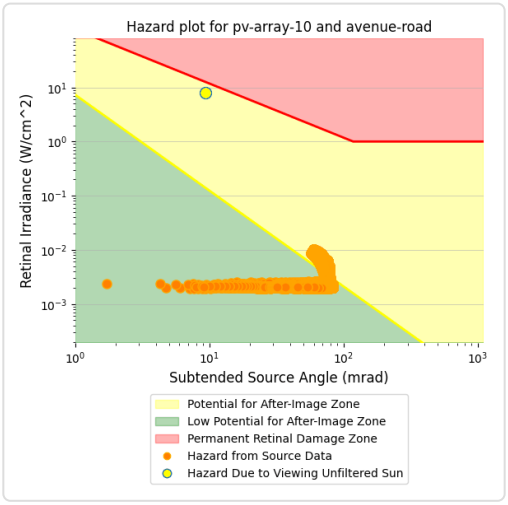
PV array 10 and Route: Avenue Road

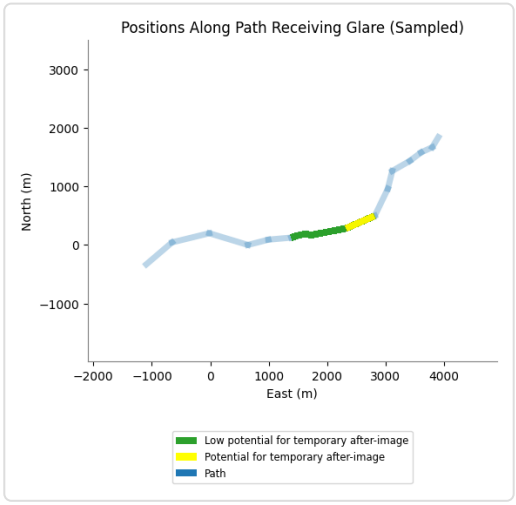
Yellow glare: 4,186 min.

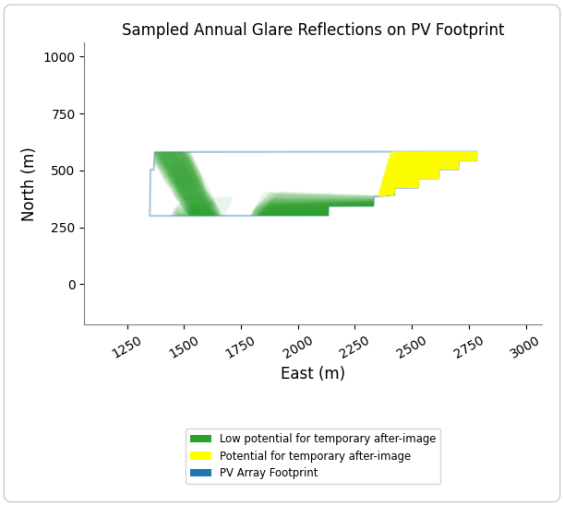
Green glare: 14,411 min.







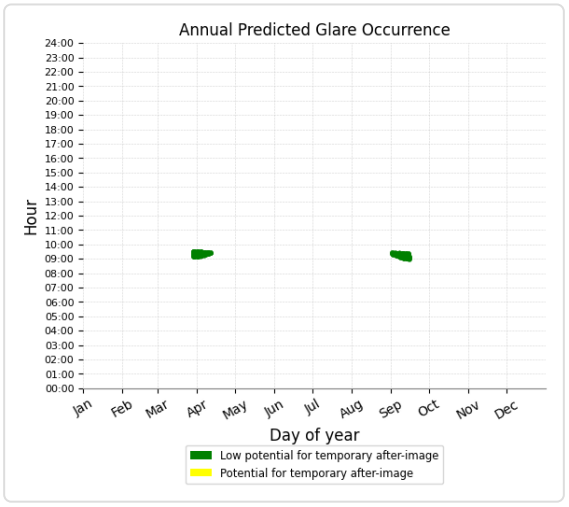


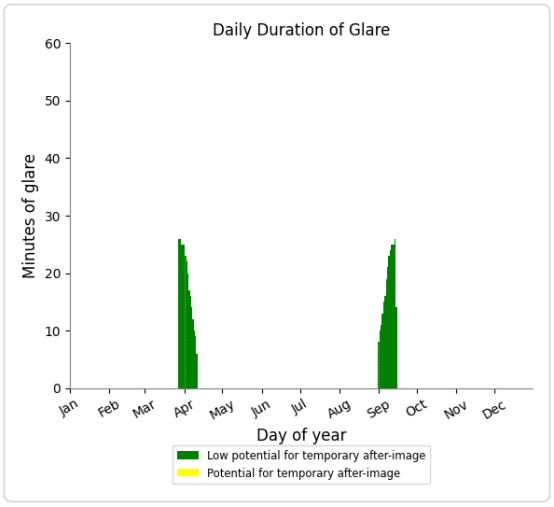


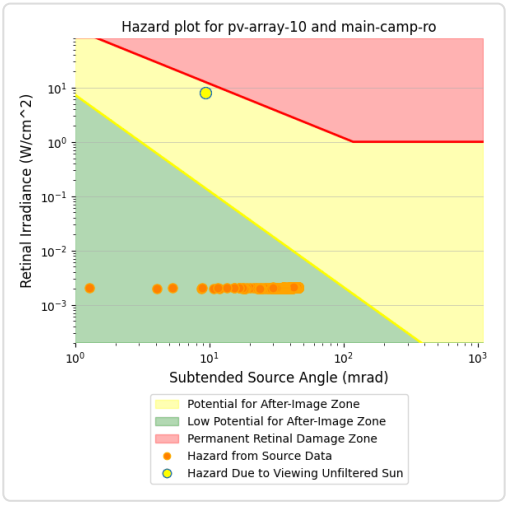
PV array 10 and Route: Main Camp Road

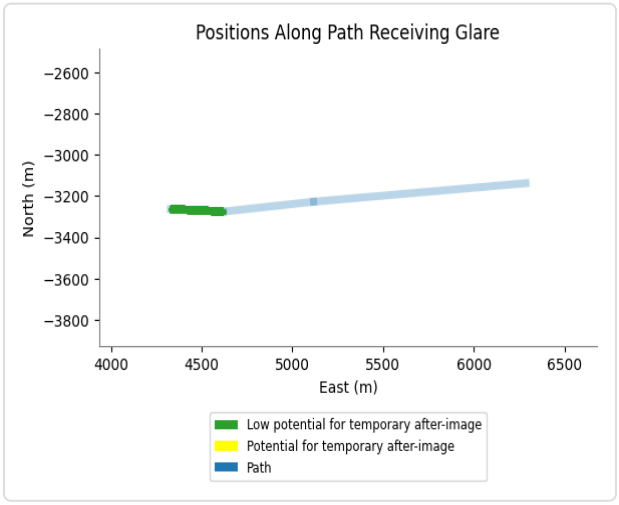
Yellow glare: none

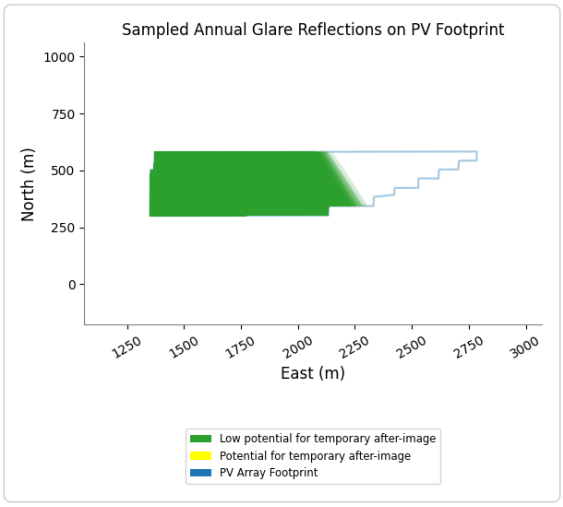
Green glare: 551 min.







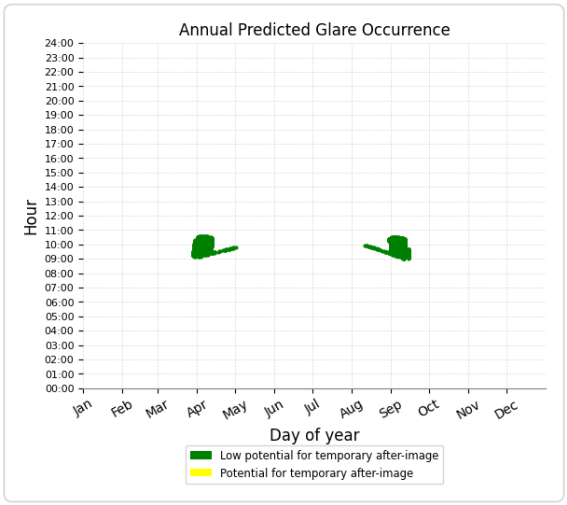


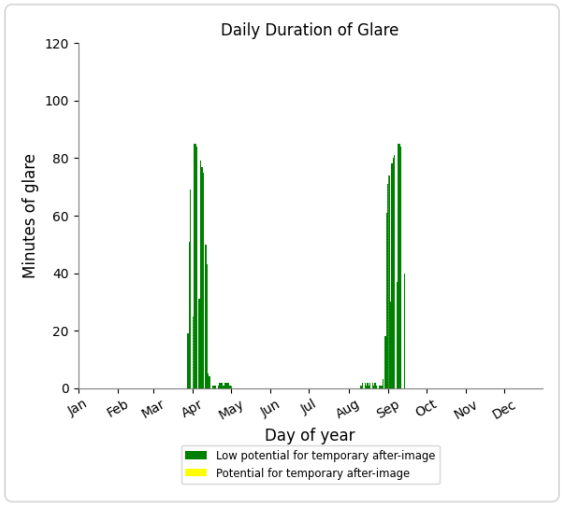


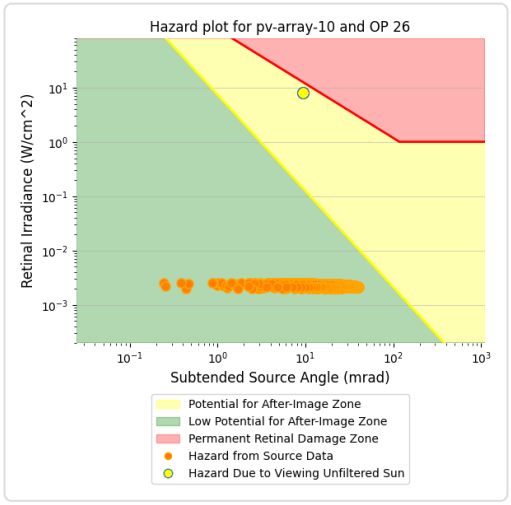
PV array 10 and OP 26

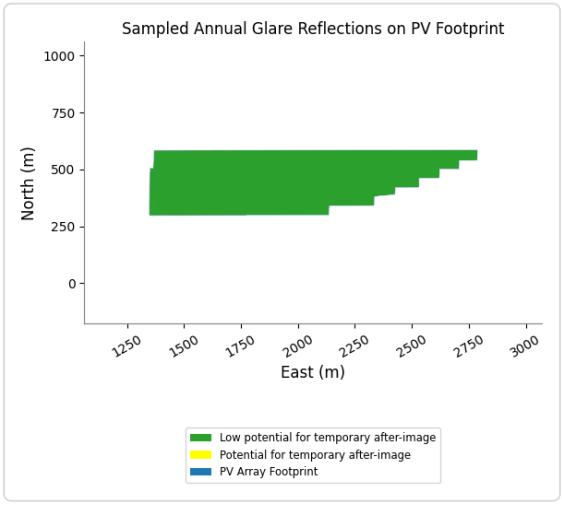
Yellow glare: none

Green glare: 1,650 min.





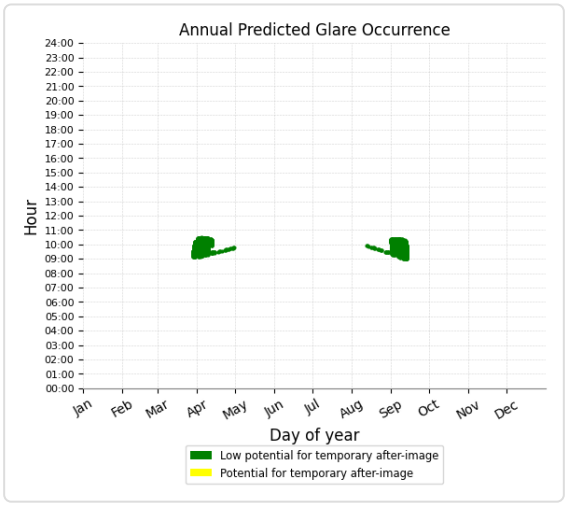


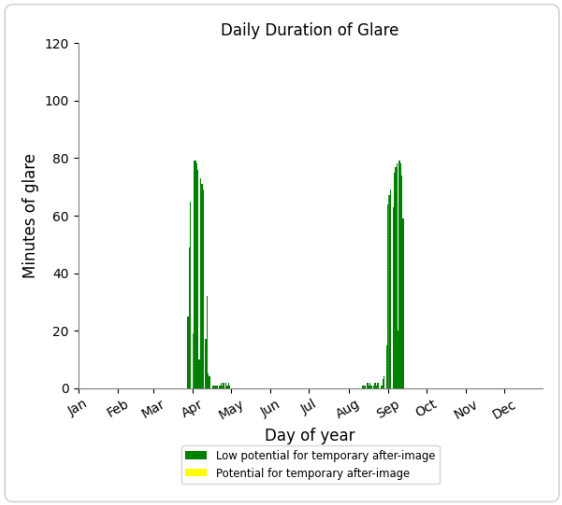


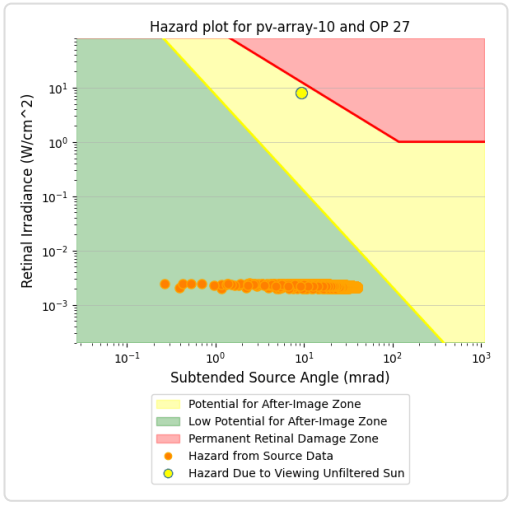
PV array 10 and OP 27

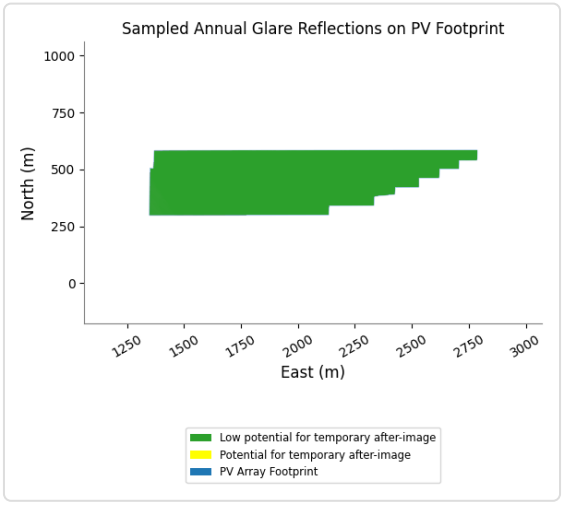
Yellow glare: none

Green glare: 1,608 min.





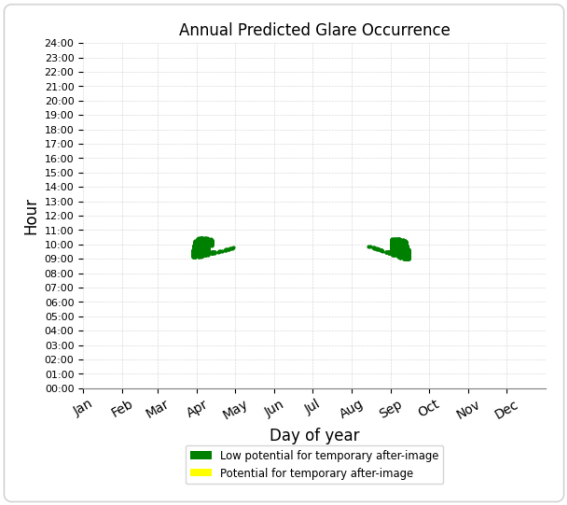


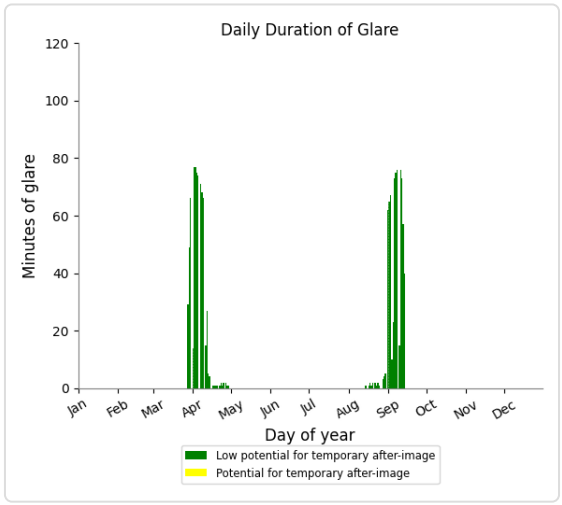


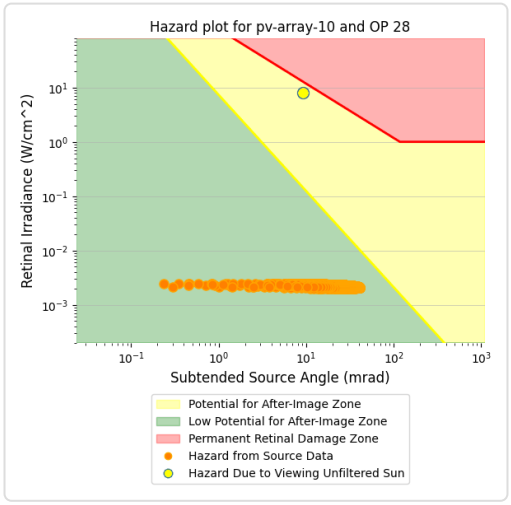
PV array 10 and OP 28

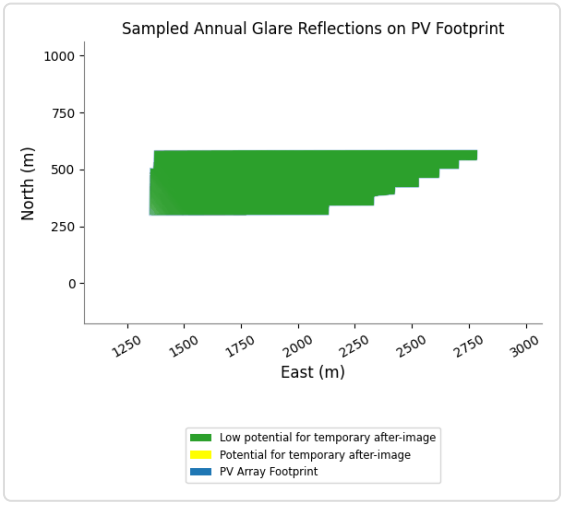
Yellow glare: none

Green glare: 1,469 min.





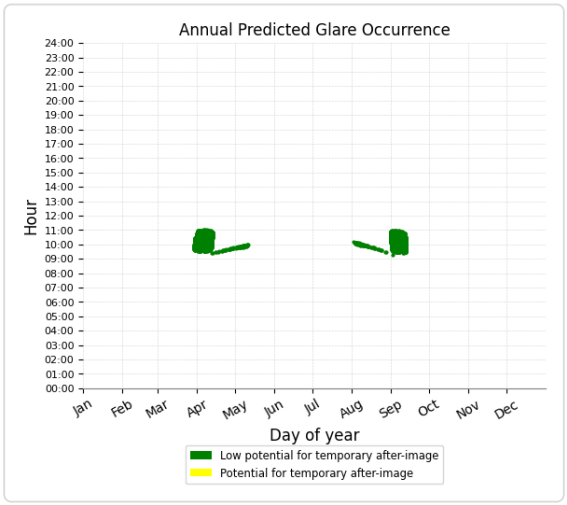


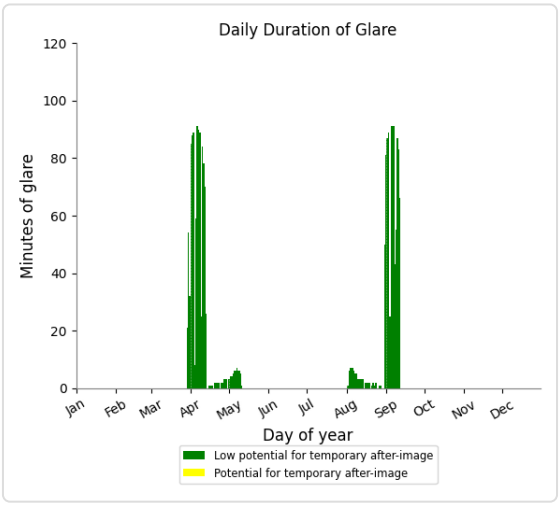


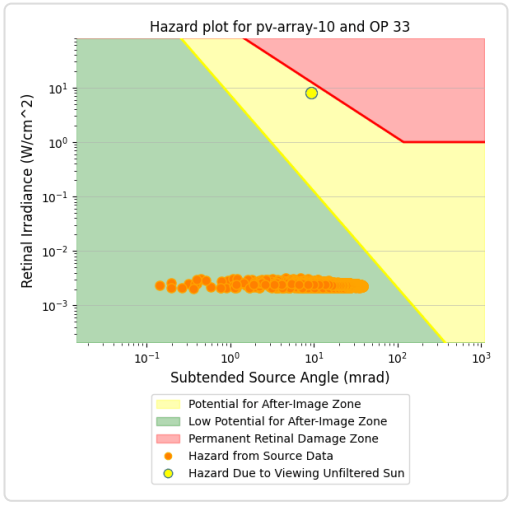
PV array 10 and OP 33

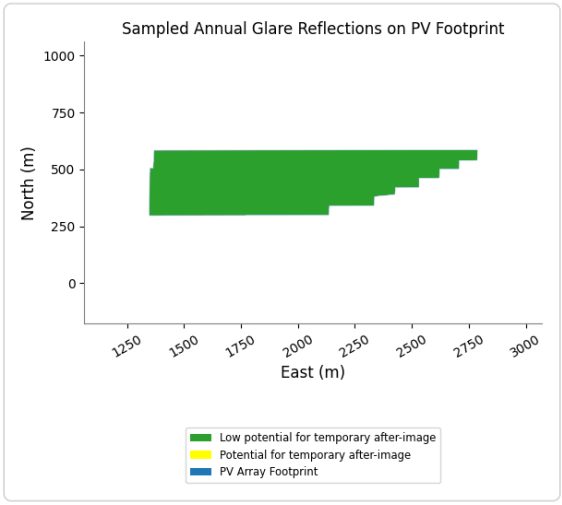
Yellow glare: none

Green glare: 2,081 min.









PV array 10 and OP 1

No glare found

PV array 10 and OP 2

No glare found

PV array 10 and OP 3

No glare found

PV array 10 and OP 4

No glare found

PV array 10 and OP 5

No glare found

PV array 10 and OP 6

No glare found

PV array 10 and OP 7

No glare found

PV array 10 and OP 8

No glare found

PV array 10 and OP 9

No glare found

PV array 10 and OP 10

No glare found

PV array 10 and OP 11

No glare found

PV array 10 and OP 12

No glare found

PV array 10 and OP 13

No glare found

PV array 10 and OP 14

No glare found

PV array 10 and OP 15

No glare found

PV array 10 and OP 16

No glare found

PV array 10 and OP 17

No glare found

PV array 10 and OP 18

No glare found

PV array 10 and OP 19

No glare found

PV array 10 and OP 20

No glare found

PV array 10 and OP 21

No glare found

PV array 10 and OP 22

No glare found

PV array 10 and OP 23

No glare found

PV array 10 and OP 24

No glare found

PV array 10 and OP 25

No glare found

PV array 10 and OP 29

No glare found

PV array 10 and OP 30

No glare found

PV array 10 and OP 31

No glare found

PV array 10 and OP 32

No glare found

PV: PV array 15 potential temporary after-image

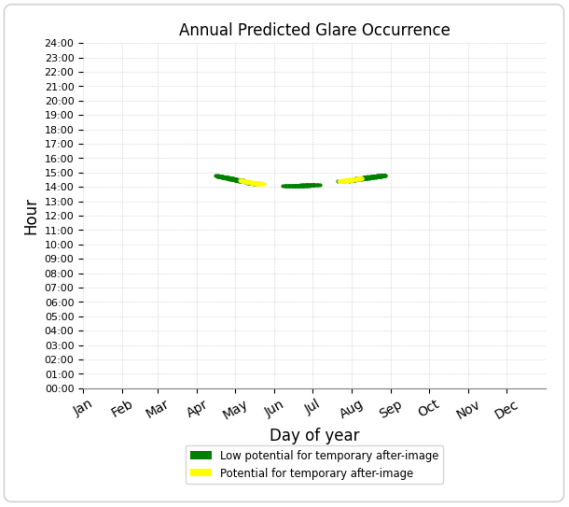
Receptor results ordered by category of glare

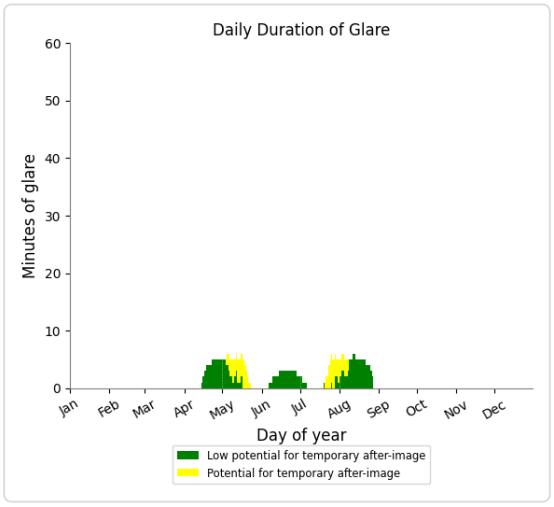
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	287	4.8	127	2.1
Avenue Road	0	0.0	0	0.0
OP 21	297	5.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

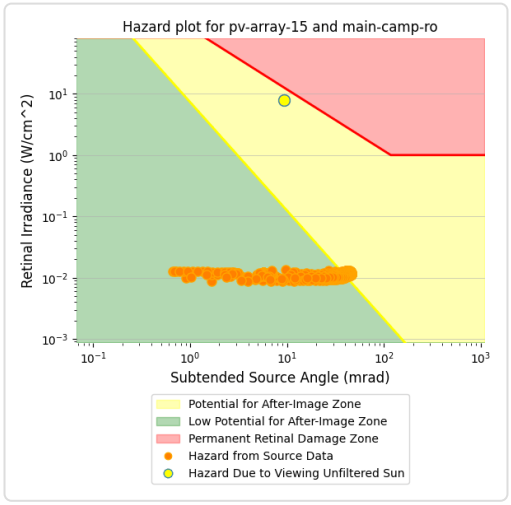
PV array 15 and Route: Main Camp Road

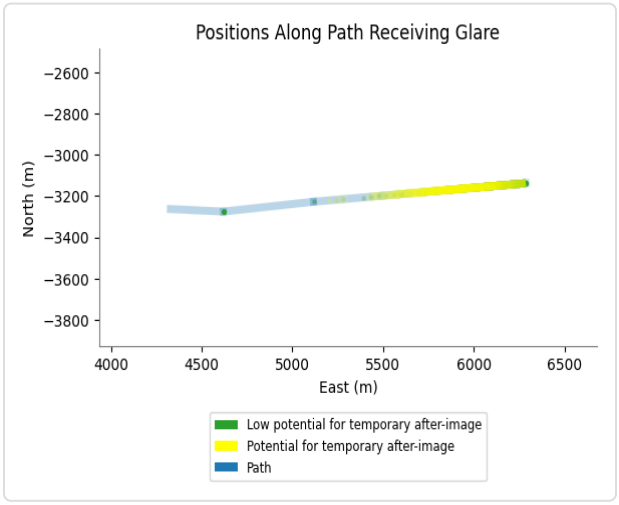
Yellow glare: 127 min.

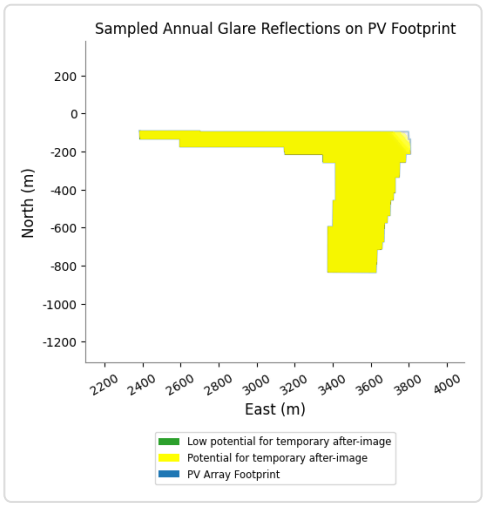
Green glare: 287 min.











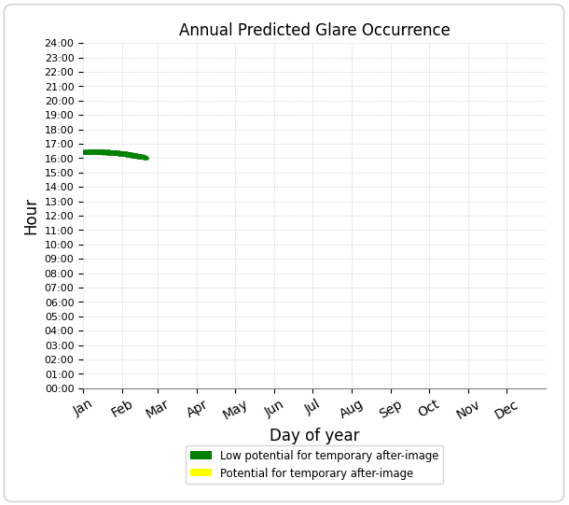
PV array 15 and Route: Avenue Road

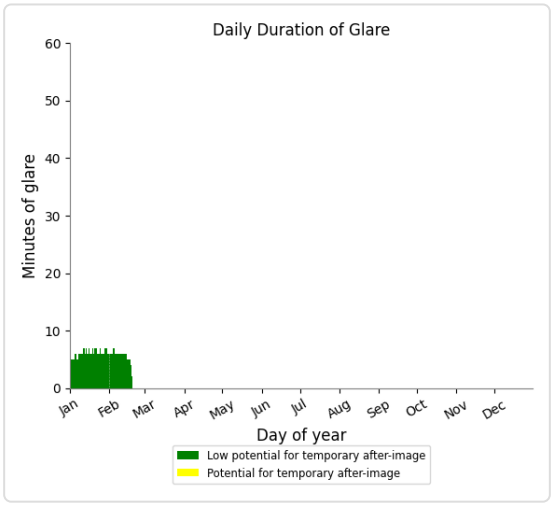
No glare found

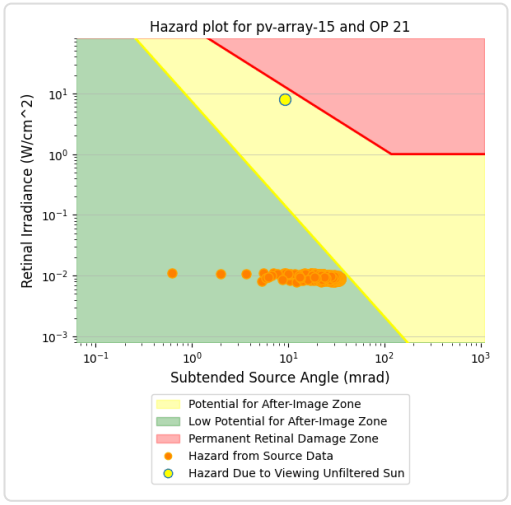
PV array 15 and OP 21

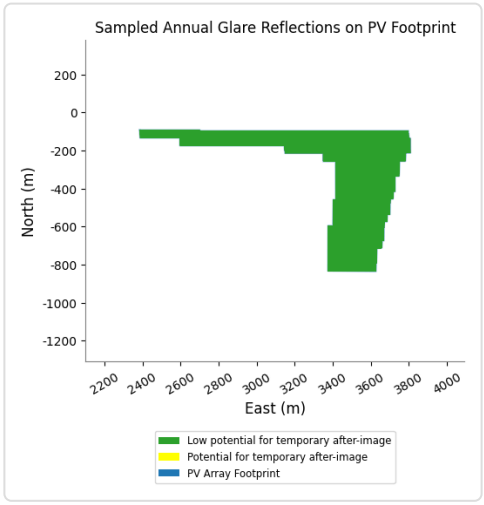
Yellow glare: none

Green glare: 297 min.









PV array 15 and OP 1

No glare found

PV array 15 and OP 2

No glare found

PV array 15 and OP 3

No glare found

PV array 15 and OP 4

No glare found

PV array 15 and OP 5

No glare found

PV array 15 and OP 6

No glare found

PV array 15 and OP 7

No glare found

PV array 15 and OP 8

No glare found

PV array 15 and OP 9

No glare found

PV array 15 and OP 10

No glare found

PV array 15 and OP 11

No glare found

PV array 15 and OP 12

No glare found

PV array 15 and OP 13

No glare found

PV array 15 and OP 14

No glare found

PV array 15 and OP 15

No glare found

PV array 15 and OP 16

No glare found

PV array 15 and OP 17

No glare found

PV array 15 and OP 18

No glare found

PV array 15 and OP 19

No glare found

PV array 15 and OP 20

No glare found

PV array 15 and OP 22

No glare found

PV array 15 and OP 23

No glare found

PV array 15 and OP 24

No glare found

PV array 15 and OP 25

No glare found

PV array 15 and OP 26

No glare found

PV array 15 and OP 27

No glare found

PV array 15 and OP 28

No glare found

PV array 15 and OP 29

No glare found

PV array 15 and OP 30

No glare found

PV array 15 and OP 31

No glare found

PV array 15 and OP 32

No glare found

PV array 15 and OP 33

No glare found

PV: PV array 16 no glare found

Receptor results ordered by category of glare

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

PV array 16 and Route: Avenue Road

No glare found

PV array 16 and Route: Main Camp Road

No glare found

PV array 16 and OP 1

No glare found

PV array 16 and OP 2

No glare found

PV array 16 and OP 3

No glare found

PV array 16 and OP 4

No glare found

PV array 16 and OP 5

No glare found

PV array 16 and OP 6

No glare found

PV array 16 and OP 7

No glare found

PV array 16 and OP 8

No glare found

PV array 16 and OP 9

No glare found

PV array 16 and OP 10

No glare found

PV array 16 and OP 11

No glare found

PV array 16 and OP 12

No glare found

PV array 16 and OP 13

No glare found

PV array 16 and OP 14

No glare found

PV array 16 and OP 15

No glare found

PV array 16 and OP 16

No glare found

PV array 16 and OP 17

No glare found

PV array 16 and OP 18

No glare found

PV array 16 and OP 19

No glare found

PV array 16 and OP 20

No glare found

PV array 16 and OP 21

No glare found

PV array 16 and OP 22

No glare found

PV array 16 and OP 23

No glare found

PV array 16 and OP 24

No glare found

PV array 16 and OP 25

No glare found

PV array 16 and OP 26

No glare found

PV array 16 and OP 27

No glare found

PV array 16 and OP 28

No glare found

PV array 16 and OP 29

No glare found

PV array 16 and OP 30

No glare found

PV array 16 and OP 31

No glare found

PV array 16 and OP 32

No glare found

PV array 16 and OP 33

No glare found

PV: PV array 17 no glare found

Receptor results ordered by category of glare

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

PV array 17 and Route: Avenue Road

No glare found

PV array 17 and Route: Main Camp Road

No glare found

PV array 17 and OP 1

No glare found

PV array 17 and OP 2

No glare found

PV array 17 and OP 3

No glare found

PV array 17 and OP 4

No glare found

PV array 17 and OP 5

No glare found

PV array 17 and OP 6

No glare found

PV array 17 and OP 7

No glare found

PV array 17 and OP 8

No glare found

PV array 17 and OP 9

No glare found

PV array 17 and OP 10

No glare found

PV array 17 and OP 11

No glare found

PV array 17 and OP 12

No glare found

PV array 17 and OP 13

No glare found

PV array 17 and OP 14

No glare found

PV array 17 and OP 15

No glare found

PV array 17 and OP 16

No glare found

PV array 17 and OP 17

No glare found

PV array 17 and OP 18

No glare found

PV array 17 and OP 19

No glare found

PV array 17 and OP 20

No glare found

PV array 17 and OP 21

No glare found

PV array 17 and OP 22

No glare found

PV array 17 and OP 23

No glare found

PV array 17 and OP 24

No glare found

PV array 17 and OP 25

No glare found

PV array 17 and OP 26

No glare found

PV array 17 and OP 27

No glare found

PV array 17 and OP 28

No glare found

PV array 17 and OP 29

No glare found

PV array 17 and OP 30

No glare found

PV array 17 and OP 31

No glare found

PV array 17 and OP 32

No glare found

PV array 17 and OP 33

No glare found

PV: PV array 18 no glare found

Receptor results ordered by category of glare

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

PV array 18 and Route: Avenue Road

No glare found

PV array 18 and Route: Main Camp Road

No glare found

PV array 18 and OP 1

No glare found

PV array 18 and OP 2

No glare found

PV array 18 and OP 3

No glare found

PV array 18 and OP 4

No glare found

PV array 18 and OP 5

No glare found

PV array 18 and OP 6

No glare found

PV array 18 and OP 7

No glare found

PV array 18 and OP 8

No glare found

PV array 18 and OP 9

No glare found

PV array 18 and OP 10

No glare found

PV array 18 and OP 11

No glare found

PV array 18 and OP 12

No glare found

PV array 18 and OP 13

No glare found

PV array 18 and OP 14

No glare found

PV array 18 and OP 15

No glare found

PV array 18 and OP 16

No glare found

PV array 18 and OP 17

No glare found

PV array 18 and OP 18

No glare found

PV array 18 and OP 19

No glare found

PV array 18 and OP 20

No glare found

PV array 18 and OP 21

No glare found

PV array 18 and OP 22

No glare found

PV array 18 and OP 23

No glare found

PV array 18 and OP 24

No glare found

PV array 18 and OP 25

No glare found

PV array 18 and OP 26

No glare found

PV array 18 and OP 27

No glare found

PV array 18 and OP 28

No glare found

PV array 18 and OP 29

No glare found

PV array 18 and OP 30

No glare found

PV array 18 and OP 31

No glare found

PV array 18 and OP 32

No glare found

PV array 18 and OP 33

No glare found

PV: PV array 19 no glare found

Receptor results ordered by category of glare

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

PV array 19 and Route: Avenue Road

No glare found

PV array 19 and Route: Main Camp Road

No glare found

PV array 19 and OP 1

No glare found

PV array 19 and OP 2

No glare found

PV array 19 and OP 3

No glare found

PV array 19 and OP 4

No glare found

PV array 19 and OP 5

No glare found

PV array 19 and OP 6

No glare found

PV array 19 and OP 7

No glare found

PV array 19 and OP 8

No glare found

PV array 19 and OP 9

No glare found

PV array 19 and OP 10

No glare found

PV array 19 and OP 11

No glare found

PV array 19 and OP 12

No glare found

PV array 19 and OP 13

No glare found

PV array 19 and OP 14

No glare found

PV array 19 and OP 15

No glare found

PV array 19 and OP 16

No glare found

PV array 19 and OP 17

No glare found

PV array 19 and OP 18

No glare found

PV array 19 and OP 19

No glare found

PV array 19 and OP 20

No glare found

PV array 19 and OP 21

No glare found

PV array 19 and OP 22

No glare found

PV array 19 and OP 23

No glare found

PV array 19 and OP 24

No glare found

PV array 19 and OP 25

No glare found

PV array 19 and OP 26

No glare found

PV array 19 and OP 27

No glare found

PV array 19 and OP 28

No glare found

PV array 19 and OP 29

No glare found

PV array 19 and OP 30

No glare found

PV array 19 and OP 31

No glare found

PV array 19 and OP 32

No glare found

PV array 19 and OP 33

No glare found

PV: PV array 2 no glare found

Receptor results ordered by category of glare

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

PV array 2 and Route: Avenue Road

No glare found

PV array 2 and Route: Main Camp Road

No glare found

PV array 2 and OP 1

No glare found

PV array 2 and OP 2

No glare found

PV array 2 and OP 3

No glare found

PV array 2 and OP 4

No glare found

PV array 2 and OP 5

No glare found

PV array 2 and OP 6

No glare found

PV array 2 and OP 7

No glare found

PV array 2 and OP 8

No glare found

PV array 2 and OP 9

No glare found

PV array 2 and OP 10

No glare found

PV array 2 and OP 11

No glare found

PV array 2 and OP 12

No glare found

PV array 2 and OP 13

No glare found

PV array 2 and OP 14

No glare found

PV array 2 and OP 15

No glare found

PV array 2 and OP 16

No glare found

PV array 2 and OP 17

No glare found

PV array 2 and OP 18

No glare found

PV array 2 and OP 19

No glare found

PV array 2 and OP 20

No glare found

PV array 2 and OP 21

No glare found

PV array 2 and OP 22

No glare found

PV array 2 and OP 23

No glare found

PV array 2 and OP 24

No glare found

PV array 2 and OP 25

No glare found

PV array 2 and OP 26

No glare found

PV array 2 and OP 27

No glare found

PV array 2 and OP 28

No glare found

PV array 2 and OP 29

No glare found

PV array 2 and OP 30

No glare found

PV array 2 and OP 31

No glare found

PV array 2 and OP 32

No glare found

PV array 2 and OP 33

No glare found

PV: PV array 20 no glare found

Receptor results ordered by category of glare

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

PV array 20 and Route: Avenue Road

No glare found

PV array 20 and Route: Main Camp Road

No glare found

PV array 20 and OP 1

No glare found

PV array 20 and OP 2

No glare found

PV array 20 and OP 3

No glare found

PV array 20 and OP 4

No glare found

PV array 20 and OP 5

No glare found

PV array 20 and OP 6

No glare found

PV array 20 and OP 7

No glare found

PV array 20 and OP 8

No glare found

PV array 20 and OP 9

No glare found

PV array 20 and OP 10

No glare found

PV array 20 and OP 11

No glare found

PV array 20 and OP 12

No glare found

PV array 20 and OP 13

No glare found

PV array 20 and OP 14

No glare found

PV array 20 and OP 15

No glare found

PV array 20 and OP 16

No glare found

PV array 20 and OP 17

No glare found

PV array 20 and OP 18

No glare found

PV array 20 and OP 19

No glare found

PV array 20 and OP 20

No glare found

PV array 20 and OP 21

No glare found

PV array 20 and OP 22

No glare found

PV array 20 and OP 23

No glare found

PV array 20 and OP 24

No glare found

PV array 20 and OP 25

No glare found

PV array 20 and OP 26

No glare found

PV array 20 and OP 27

No glare found

PV array 20 and OP 28

No glare found

PV array 20 and OP 29

No glare found

PV array 20 and OP 30

No glare found

PV array 20 and OP 31

No glare found

PV array 20 and OP 32

No glare found

PV array 20 and OP 33

No glare found

PV: PV array 21 no glare found

Receptor results ordered by category of glare

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

PV array 21 and Route: Avenue Road

No glare found

PV array 21 and Route: Main Camp Road

No glare found

PV array 21 and OP 1

No glare found

PV array 21 and OP 2

No glare found

PV array 21 and OP 3

No glare found

PV array 21 and OP 4

No glare found

PV array 21 and OP 5

No glare found

PV array 21 and OP 6

No glare found

PV array 21 and OP 7

No glare found

PV array 21 and OP 8

No glare found

PV array 21 and OP 9

No glare found

PV array 21 and OP 10

No glare found

PV array 21 and OP 11

No glare found

PV array 21 and OP 12

No glare found

PV array 21 and OP 13

No glare found

PV array 21 and OP 14

No glare found

PV array 21 and OP 15

No glare found

PV array 21 and OP 16

No glare found

PV array 21 and OP 17

No glare found

PV array 21 and OP 18

No glare found

PV array 21 and OP 19

No glare found

PV array 21 and OP 20

No glare found

PV array 21 and OP 21

No glare found

PV array 21 and OP 22

No glare found

PV array 21 and OP 23

No glare found

PV array 21 and OP 24

No glare found

PV array 21 and OP 25

No glare found

PV array 21 and OP 26

No glare found

PV array 21 and OP 27

No glare found

PV array 21 and OP 28

No glare found

PV array 21 and OP 29

No glare found

PV array 21 and OP 30

No glare found

PV array 21 and OP 31

No glare found

PV array 21 and OP 32

No glare found

PV array 21 and OP 33

No glare found

PV: PV array 22 no glare found

Receptor results ordered by category of glare

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

PV array 22 and Route: Avenue Road

No glare found

PV array 22 and Route: Main Camp Road

No glare found

PV array 22 and OP 1

No glare found

PV array 22 and OP 2

No glare found

PV array 22 and OP 3

No glare found

PV array 22 and OP 4

No glare found

PV array 22 and OP 5

No glare found

PV array 22 and OP 6

No glare found

PV array 22 and OP 7

No glare found

PV array 22 and OP 8

No glare found

PV array 22 and OP 9

No glare found

PV array 22 and OP 10

No glare found

PV array 22 and OP 11

No glare found

PV array 22 and OP 12

No glare found

PV array 22 and OP 13

No glare found

PV array 22 and OP 14

No glare found

PV array 22 and OP 15

No glare found

PV array 22 and OP 16

No glare found

PV array 22 and OP 17

No glare found

PV array 22 and OP 18

No glare found

PV array 22 and OP 19

No glare found

PV array 22 and OP 20

No glare found

PV array 22 and OP 21

No glare found

PV array 22 and OP 22

No glare found

PV array 22 and OP 23

No glare found

PV array 22 and OP 24

No glare found

PV array 22 and OP 25

No glare found

PV array 22 and OP 26

No glare found

PV array 22 and OP 27

No glare found

PV array 22 and OP 28

No glare found

PV array 22 and OP 29

No glare found

PV array 22 and OP 30

No glare found

PV array 22 and OP 31

No glare found

PV array 22 and OP 32

No glare found

PV array 22 and OP 33

No glare found

PV: PV array 23 no glare found

Receptor results ordered by category of glare

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

PV array 23 and Route: Avenue Road

No glare found

PV array 23 and Route: Main Camp Road

No glare found

PV array 23 and OP 1

No glare found

PV array 23 and OP 2

No glare found

PV array 23 and OP 3

No glare found

PV array 23 and OP 4

No glare found

PV array 23 and OP 5

No glare found

PV array 23 and OP 6

No glare found

PV array 23 and OP 7

No glare found

PV array 23 and OP 8

No glare found

PV array 23 and OP 9

No glare found

PV array 23 and OP 10

No glare found

PV array 23 and OP 11

No glare found

PV array 23 and OP 12

No glare found

PV array 23 and OP 13

No glare found

PV array 23 and OP 14

No glare found

PV array 23 and OP 15

No glare found

PV array 23 and OP 16

No glare found

PV array 23 and OP 17

No glare found

PV array 23 and OP 18

No glare found

PV array 23 and OP 19

No glare found

PV array 23 and OP 20

No glare found

PV array 23 and OP 21

No glare found

PV array 23 and OP 22

No glare found

PV array 23 and OP 23

No glare found

PV array 23 and OP 24

No glare found

PV array 23 and OP 25

No glare found

PV array 23 and OP 26

No glare found

PV array 23 and OP 27

No glare found

PV array 23 and OP 28

No glare found

PV array 23 and OP 29

No glare found

PV array 23 and OP 30

No glare found

PV array 23 and OP 31

No glare found

PV array 23 and OP 32

No glare found

PV array 23 and OP 33

No glare found

PV: PV array 3 no glare found

Receptor results ordered by category of glare

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

PV array 3 and Route: Avenue Road

No glare found

PV array 3 and Route: Main Camp Road

No glare found

PV array 3 and OP 1

No glare found

PV array 3 and OP 2

No glare found

PV array 3 and OP 3

No glare found

PV array 3 and OP 4

No glare found

PV array 3 and OP 5

No glare found

PV array 3 and OP 6

No glare found

PV array 3 and OP 7

No glare found

PV array 3 and OP 8

No glare found

PV array 3 and OP 9

No glare found

PV array 3 and OP 10

No glare found

PV array 3 and OP 11

No glare found

PV array 3 and OP 12

No glare found

PV array 3 and OP 13

No glare found

PV array 3 and OP 14

No glare found

PV array 3 and OP 15

No glare found

PV array 3 and OP 16

No glare found

PV array 3 and OP 17

No glare found

PV array 3 and OP 18

No glare found

PV array 3 and OP 19

No glare found

PV array 3 and OP 20

No glare found

PV array 3 and OP 21

No glare found

PV array 3 and OP 22

No glare found

PV array 3 and OP 23

No glare found

PV array 3 and OP 24

No glare found

PV array 3 and OP 25

No glare found

PV array 3 and OP 26

No glare found

PV array 3 and OP 27

No glare found

PV array 3 and OP 28

No glare found

PV array 3 and OP 29

No glare found

PV array 3 and OP 30

No glare found

PV array 3 and OP 31

No glare found

PV array 3 and OP 32

No glare found

PV array 3 and OP 33

No glare found

PV: PV array 4 no glare found

Receptor results ordered by category of glare

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

PV array 4 and Route: Avenue Road

No glare found

PV array 4 and Route: Main Camp Road

No glare found

PV array 4 and OP 1

No glare found

PV array 4 and OP 2

No glare found

PV array 4 and OP 3

No glare found

PV array 4 and OP 4

No glare found

PV array 4 and OP 5

No glare found

PV array 4 and OP 6

No glare found

PV array 4 and OP 7

No glare found

PV array 4 and OP 8

No glare found

PV array 4 and OP 9

No glare found

PV array 4 and OP 10

No glare found

PV array 4 and OP 11

No glare found

PV array 4 and OP 12

No glare found

PV array 4 and OP 13

No glare found

PV array 4 and OP 14

No glare found

PV array 4 and OP 15

No glare found

PV array 4 and OP 16

No glare found

PV array 4 and OP 17

No glare found

PV array 4 and OP 18

No glare found

PV array 4 and OP 19

No glare found

PV array 4 and OP 20

No glare found

PV array 4 and OP 21

No glare found

PV array 4 and OP 22

No glare found

PV array 4 and OP 23

No glare found

PV array 4 and OP 24

No glare found

PV array 4 and OP 25

No glare found

PV array 4 and OP 26

No glare found

PV array 4 and OP 27

No glare found

PV array 4 and OP 28

No glare found

PV array 4 and OP 29

No glare found

PV array 4 and OP 30

No glare found

PV array 4 and OP 31

No glare found

PV array 4 and OP 32

No glare found

PV array 4 and OP 33

No glare found

PV: PV array 5 no glare found

Receptor results ordered by category of glare

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

PV array 5 and Route: Avenue Road

No glare found

PV array 5 and Route: Main Camp Road

No glare found

PV array 5 and OP 1

No glare found

PV array 5 and OP 2

No glare found

PV array 5 and OP 3

No glare found

PV array 5 and OP 4

No glare found

PV array 5 and OP 5

No glare found

PV array 5 and OP 6

No glare found

PV array 5 and OP 7

No glare found

PV array 5 and OP 8

No glare found

PV array 5 and OP 9

No glare found

PV array 5 and OP 10

No glare found

PV array 5 and OP 11

No glare found

PV array 5 and OP 12

No glare found

PV array 5 and OP 13

No glare found

PV array 5 and OP 14

No glare found

PV array 5 and OP 15

No glare found

PV array 5 and OP 16

No glare found

PV array 5 and OP 17

No glare found

PV array 5 and OP 18

No glare found

PV array 5 and OP 19

No glare found

PV array 5 and OP 20

No glare found

PV array 5 and OP 21

No glare found

PV array 5 and OP 22

No glare found

PV array 5 and OP 23

No glare found

PV array 5 and OP 24

No glare found

PV array 5 and OP 25

No glare found

PV array 5 and OP 26

No glare found

PV array 5 and OP 27

No glare found

PV array 5 and OP 28

No glare found

PV array 5 and OP 29

No glare found

PV array 5 and OP 30

No glare found

PV array 5 and OP 31

No glare found

PV array 5 and OP 32

No glare found

PV array 5 and OP 33

No glare found

PV: PV array 6 no glare found

Receptor results ordered by category of glare

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

PV array 6 and Route: Avenue Road

No glare found

PV array 6 and Route: Main Camp Road

No glare found

PV array 6 and OP 1

No glare found

PV array 6 and OP 2

No glare found

PV array 6 and OP 3

No glare found

PV array 6 and OP 4

No glare found

PV array 6 and OP 5

No glare found

PV array 6 and OP 6

No glare found

PV array 6 and OP 7

No glare found

PV array 6 and OP 8

No glare found

PV array 6 and OP 9

No glare found

PV array 6 and OP 10

No glare found

PV array 6 and OP 11

No glare found

PV array 6 and OP 12

No glare found

PV array 6 and OP 13

No glare found

PV array 6 and OP 14

No glare found

PV array 6 and OP 15

No glare found

PV array 6 and OP 16

No glare found

PV array 6 and OP 17

No glare found

PV array 6 and OP 18

No glare found

PV array 6 and OP 19

No glare found

PV array 6 and OP 20

No glare found

PV array 6 and OP 21

No glare found

PV array 6 and OP 22

No glare found

PV array 6 and OP 23

No glare found

PV array 6 and OP 24

No glare found

PV array 6 and OP 25

No glare found

PV array 6 and OP 26

No glare found

PV array 6 and OP 27

No glare found

PV array 6 and OP 28

No glare found

PV array 6 and OP 29

No glare found

PV array 6 and OP 30

No glare found

PV array 6 and OP 31

No glare found

PV array 6 and OP 32

No glare found

PV array 6 and OP 33

No glare found

PV: PV array 7 no glare found

Receptor results ordered by category of glare

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

PV array 7 and Route: Avenue Road

No glare found

PV array 7 and Route: Main Camp Road

No glare found

PV array 7 and OP 1

No glare found

PV array 7 and OP 2

No glare found

PV array 7 and OP 3

No glare found

PV array 7 and OP 4

No glare found

PV array 7 and OP 5

No glare found

PV array 7 and OP 6

No glare found

PV array 7 and OP 7

No glare found

PV array 7 and OP 8

No glare found

PV array 7 and OP 9

No glare found

PV array 7 and OP 10

No glare found

PV array 7 and OP 11

No glare found

PV array 7 and OP 12

No glare found

PV array 7 and OP 13

No glare found

PV array 7 and OP 14

No glare found

PV array 7 and OP 15

No glare found

PV array 7 and OP 16

No glare found

PV array 7 and OP 17

No glare found

PV array 7 and OP 18

No glare found

PV array 7 and OP 19

No glare found

PV array 7 and OP 20

No glare found

PV array 7 and OP 21

No glare found

PV array 7 and OP 22

No glare found

PV array 7 and OP 23

No glare found

PV array 7 and OP 24

No glare found

PV array 7 and OP 25

No glare found

PV array 7 and OP 26

No glare found

PV array 7 and OP 27

No glare found

PV array 7 and OP 28

No glare found

PV array 7 and OP 29

No glare found

PV array 7 and OP 30

No glare found

PV array 7 and OP 31

No glare found

PV array 7 and OP 32

No glare found

PV array 7 and OP 33

No glare found

PV: PV array 8 potential temporary after-image

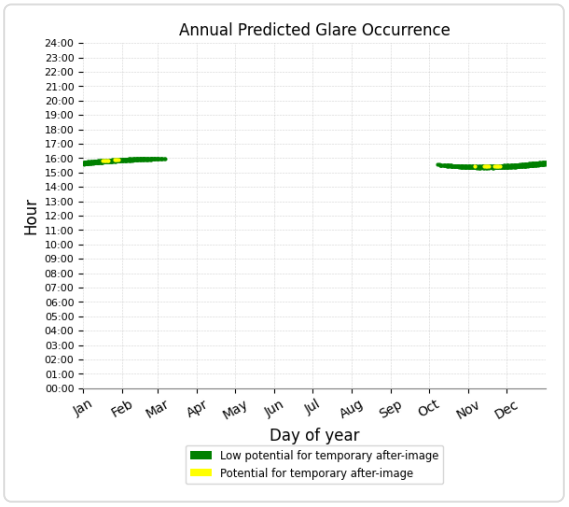
Receptor results ordered by category of glare

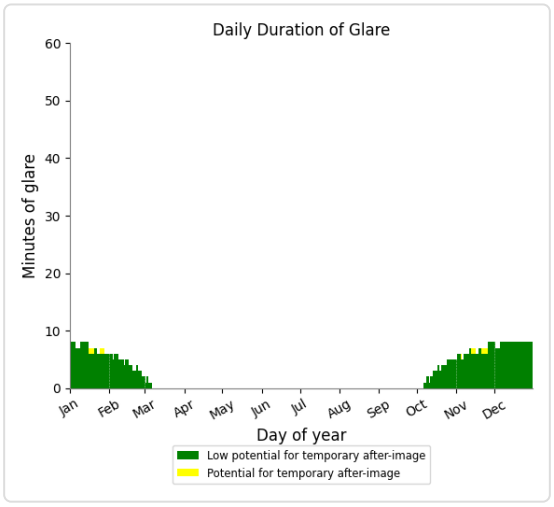
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	864	14.4	19	0.3
Main Camp Road	0	0.0	0	0.0
OP 9	261	4.3	0	0.0
OP 10	57	0.9	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	148	2.5	0	0.0
OP 16	488	8.1	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 22	290	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	55	0.9	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

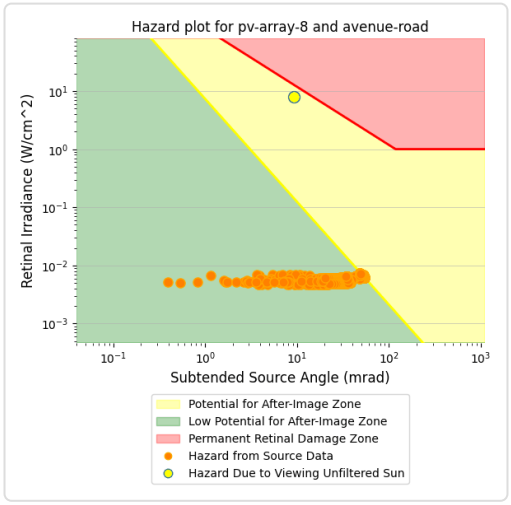
PV array 8 and Route: Avenue Road

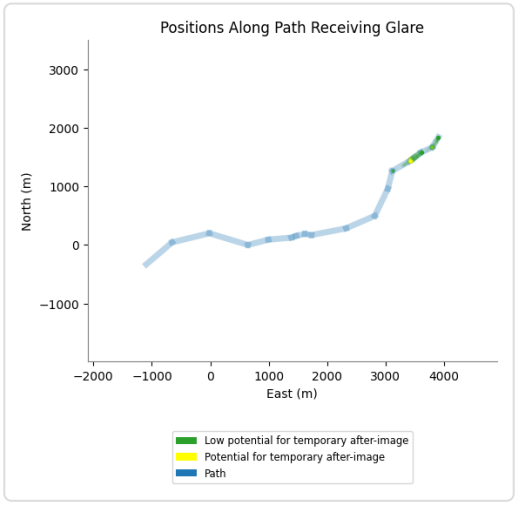
Yellow glare: 19 min.

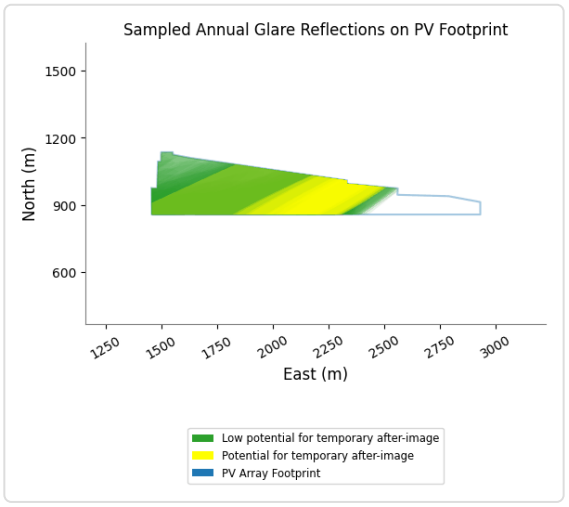
Green glare: 864 min.











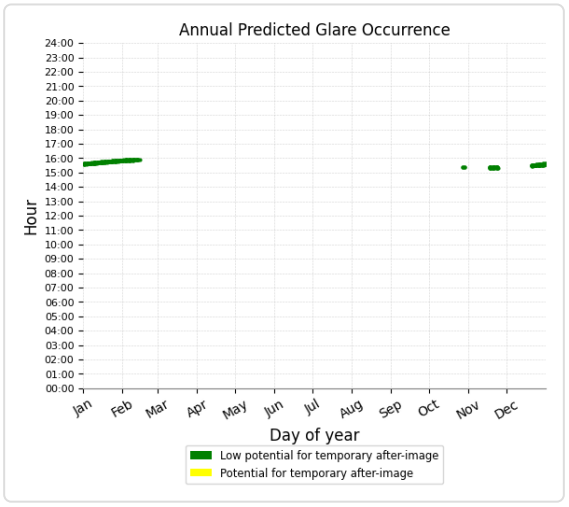
PV array 8 and Route: Main Camp Road

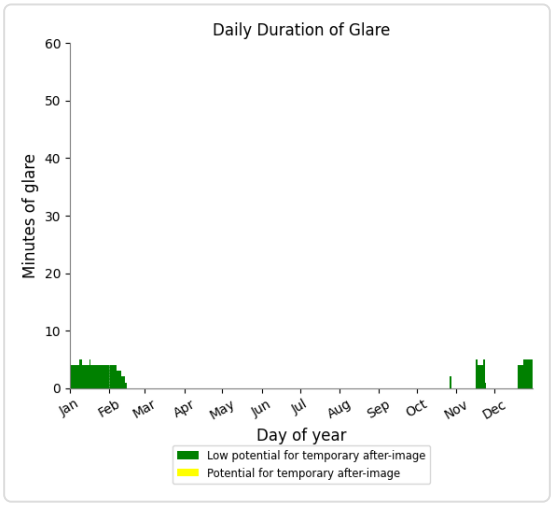
No glare found

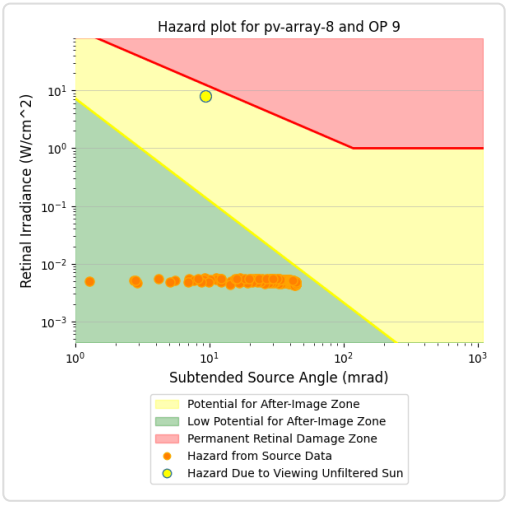
PV array 8 and OP 9

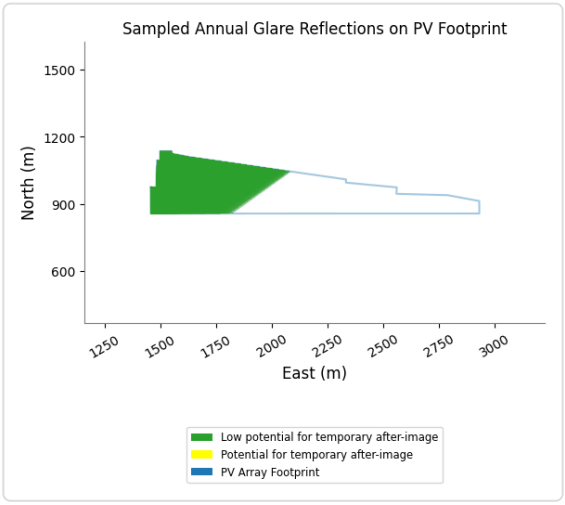
Yellow glare: none

Green glare: 261 min.





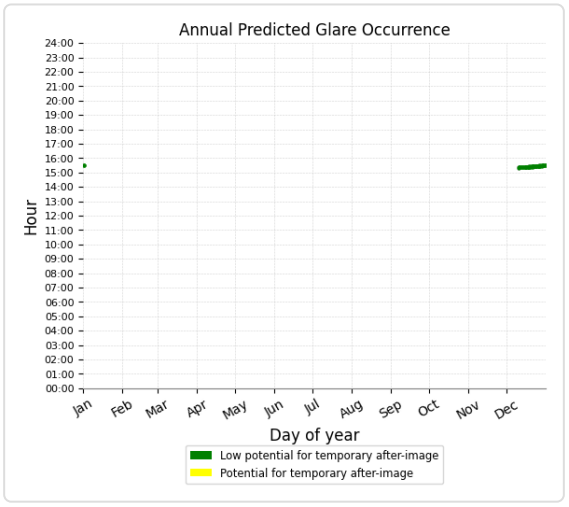


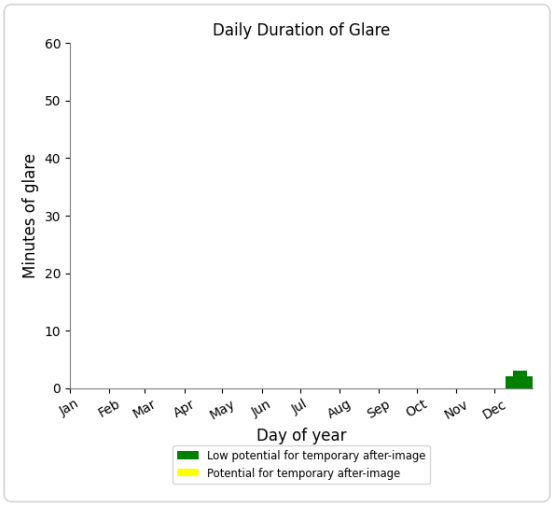


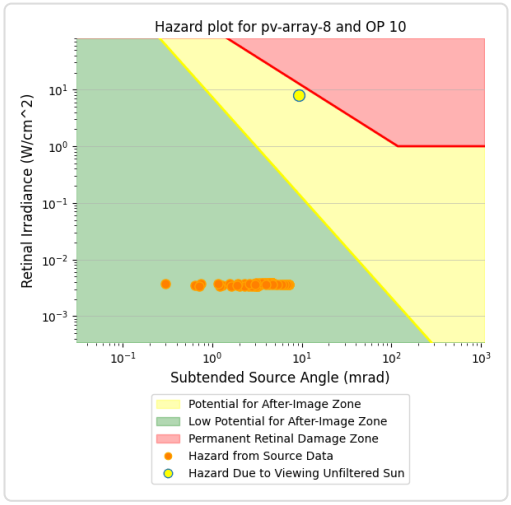
PV array 8 and OP 10

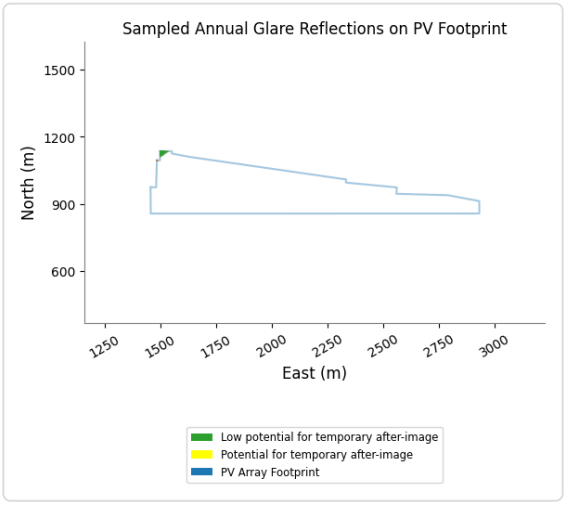
Yellow glare: none

Green glare: 57 min.





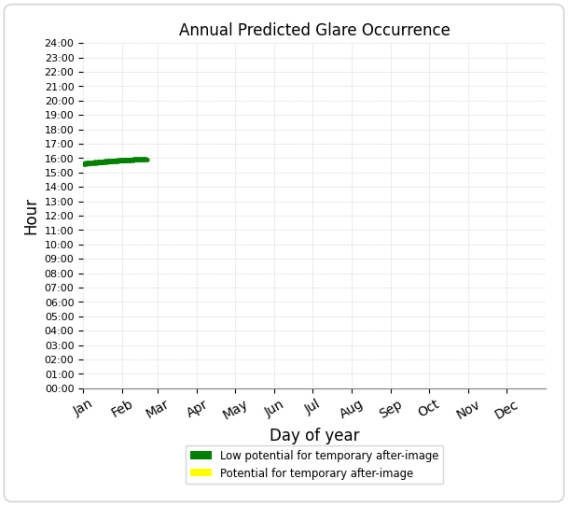


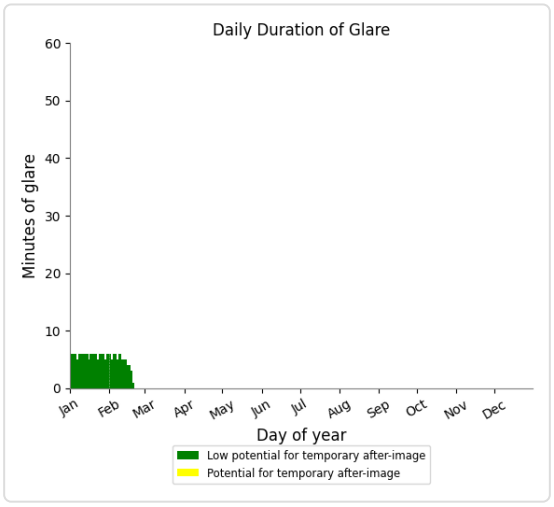


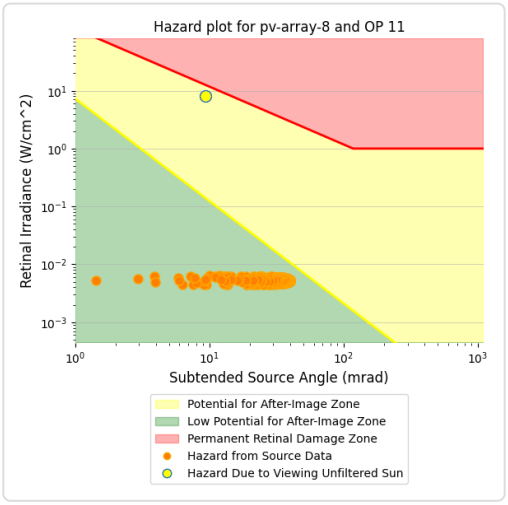
PV array 8 and OP 11

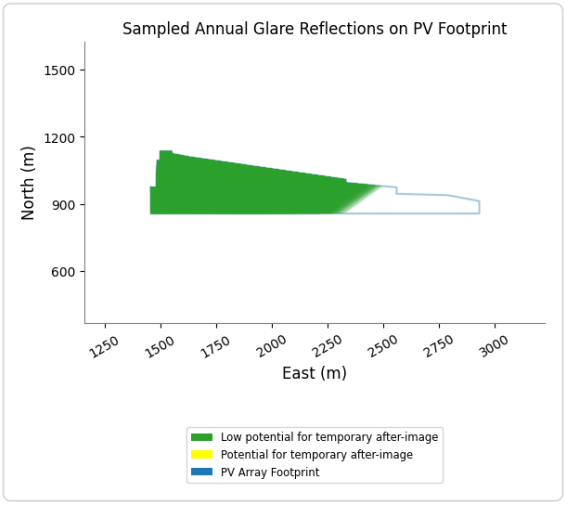
Yellow glare: none

Green glare: 278 min.





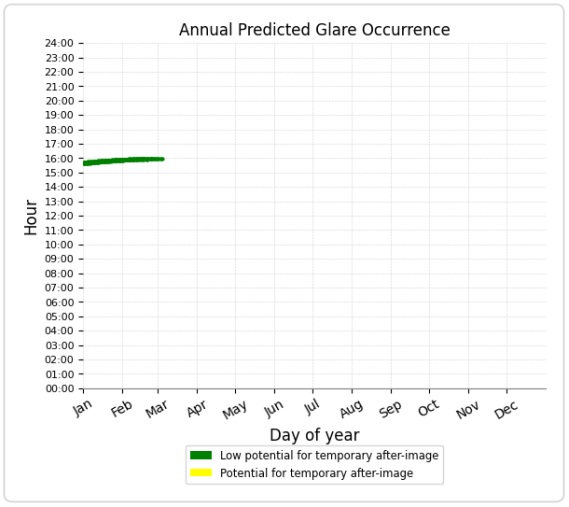


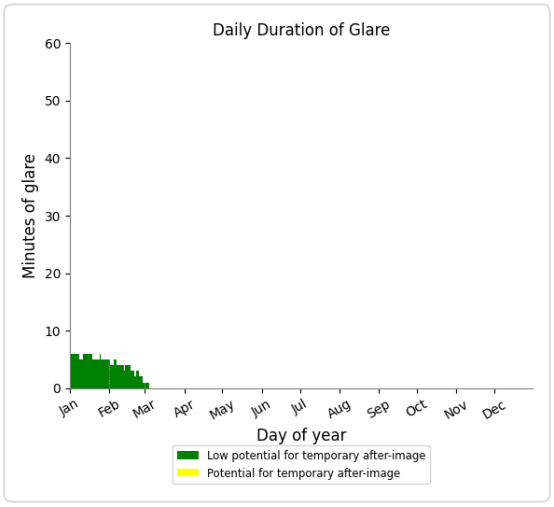


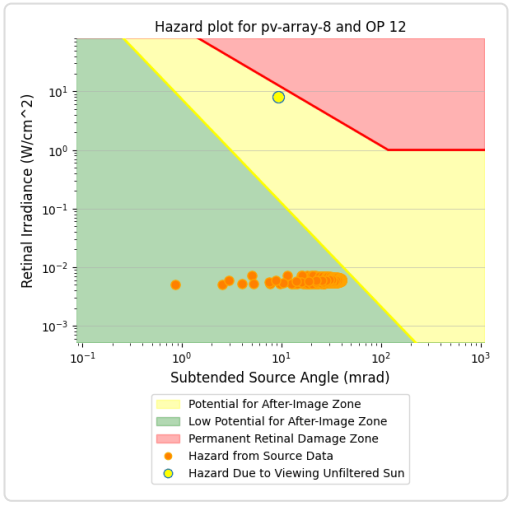
PV array 8 and OP 12

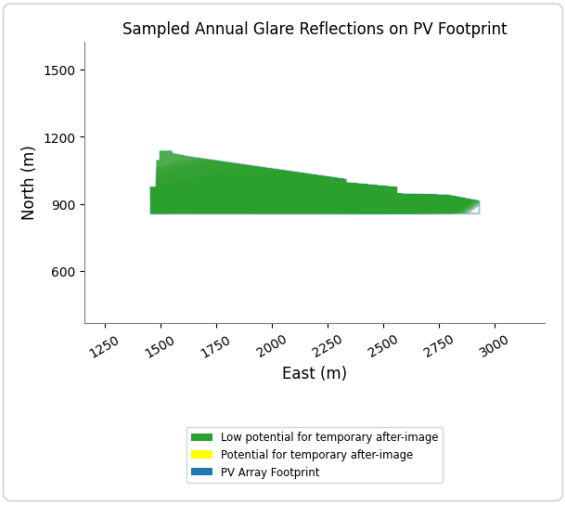
Yellow glare: none

Green glare: 271 min.





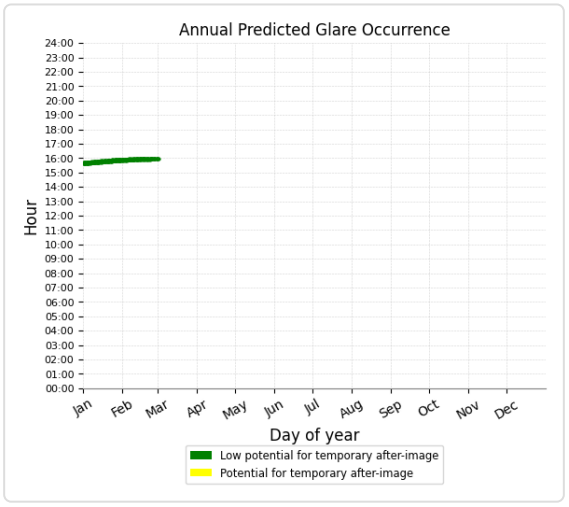


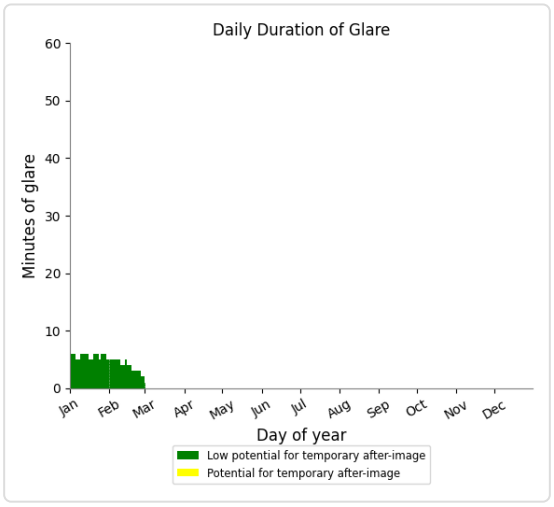


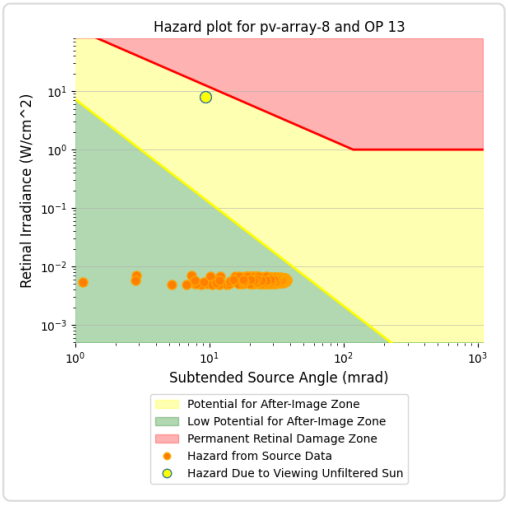
PV array 8 and OP 13

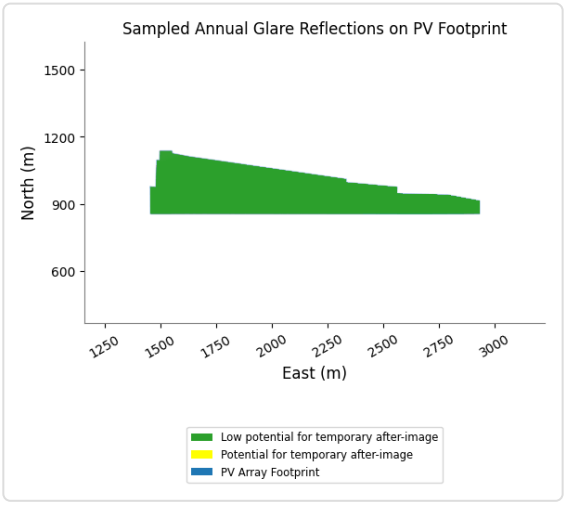
Yellow glare: none

Green glare: 284 min.





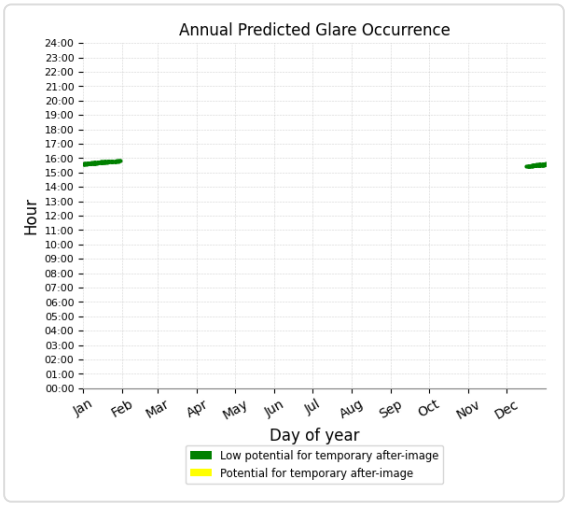


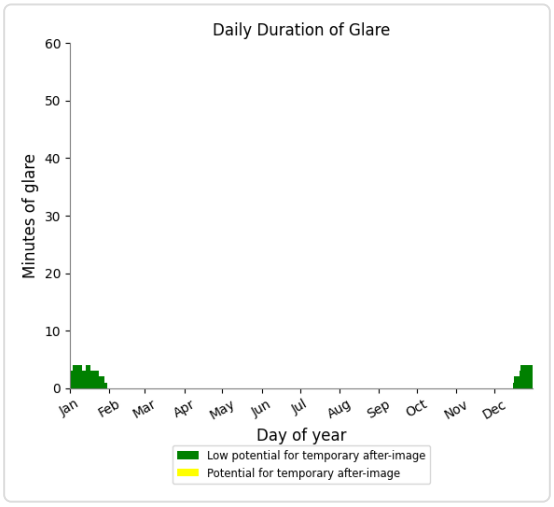


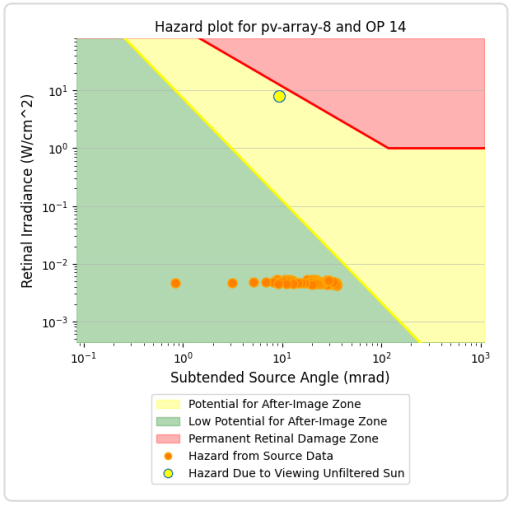
PV array 8 and OP 14

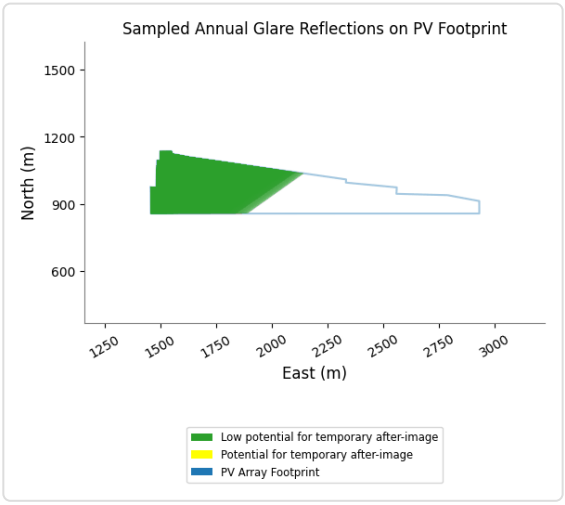
Yellow glare: none

Green glare: 144 min.





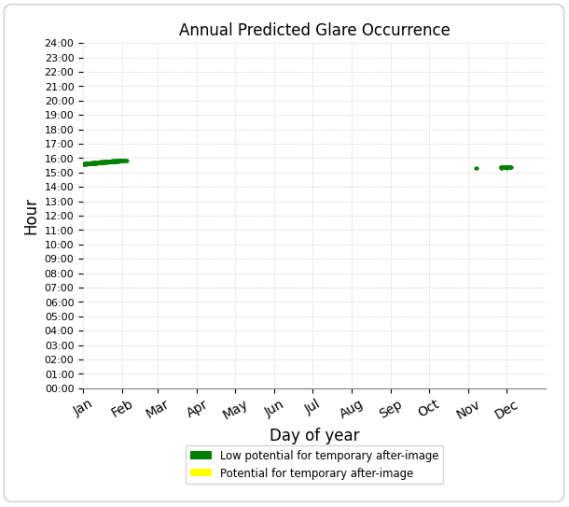


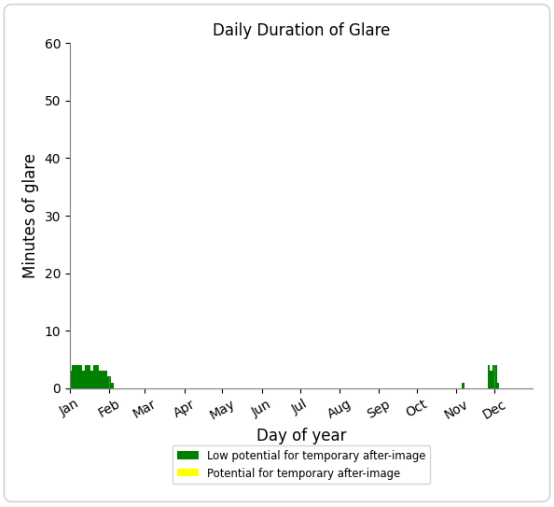


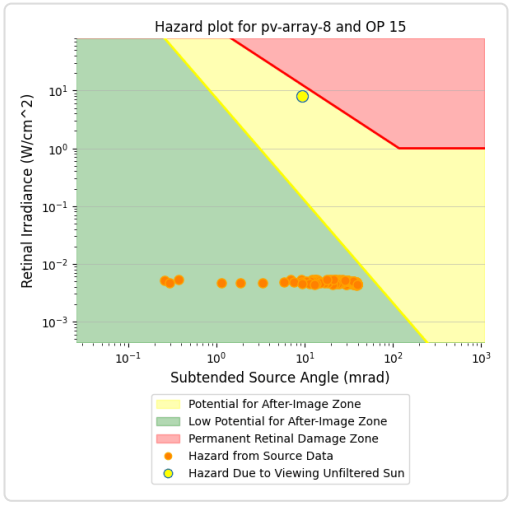
PV array 8 and OP 15

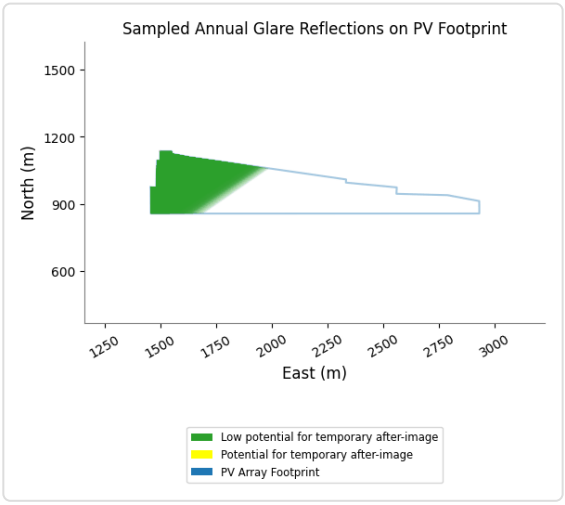
Yellow glare: none

Green glare: 148 min.





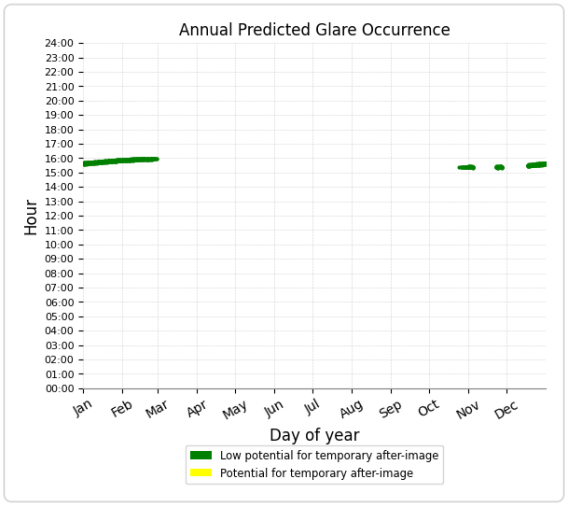


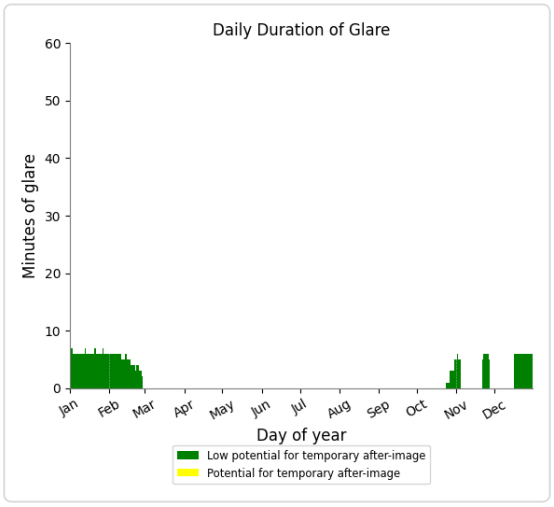


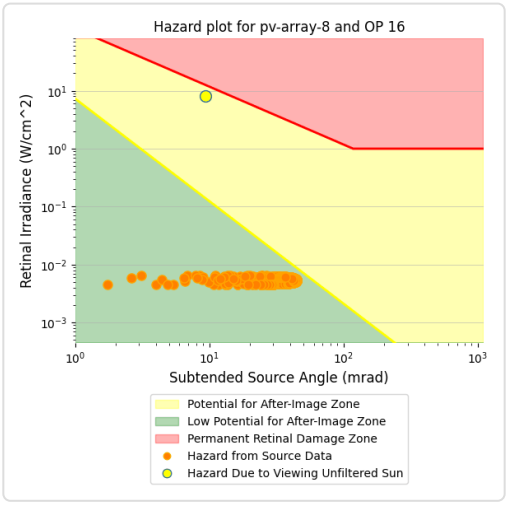
PV array 8 and OP 16

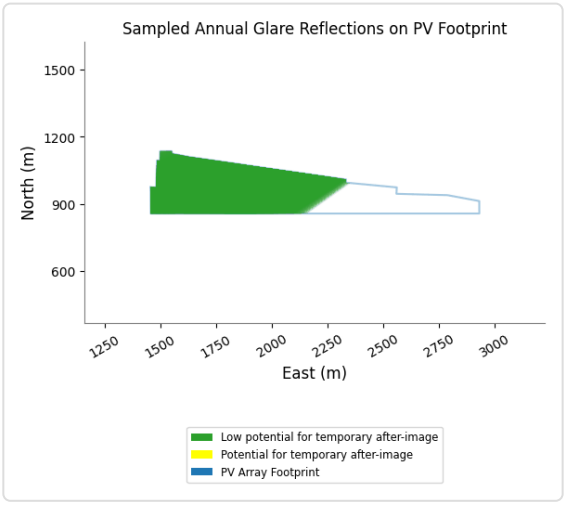
Yellow glare: none

Green glare: 488 min.





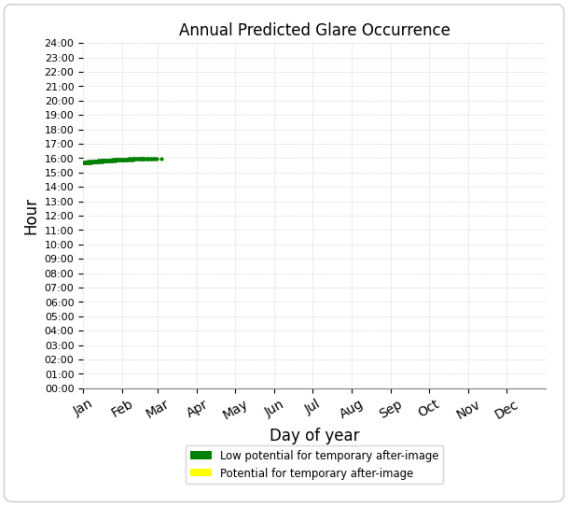


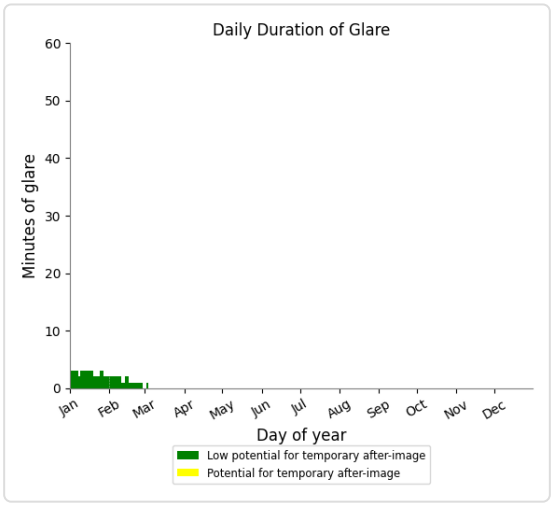


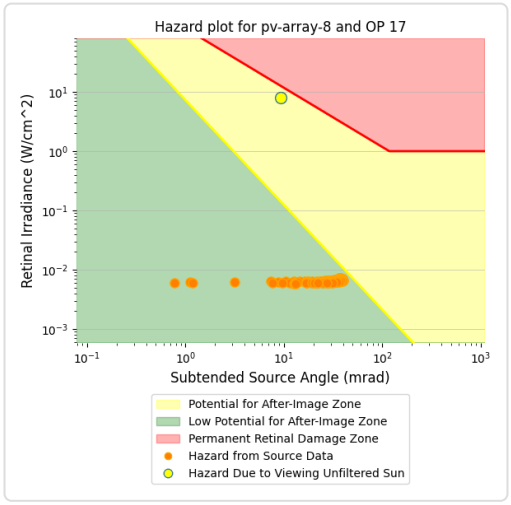
PV array 8 and OP 17

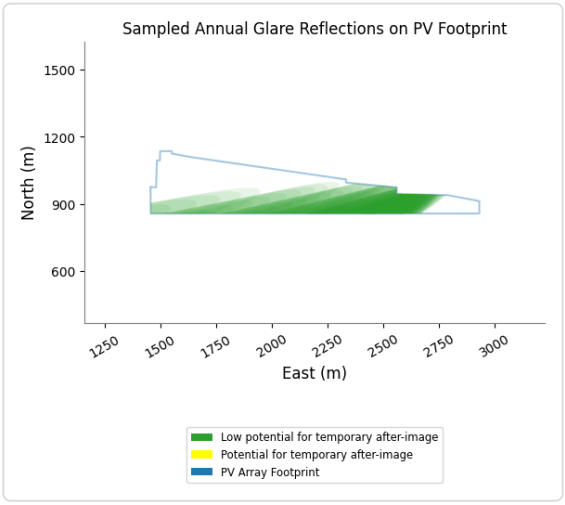
Yellow glare: none

Green glare: 123 min.





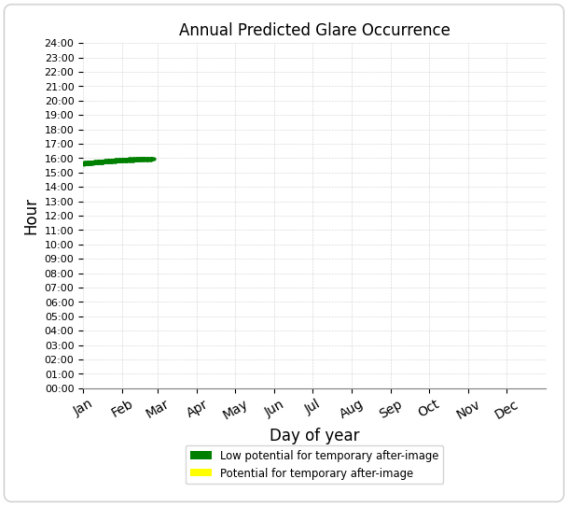


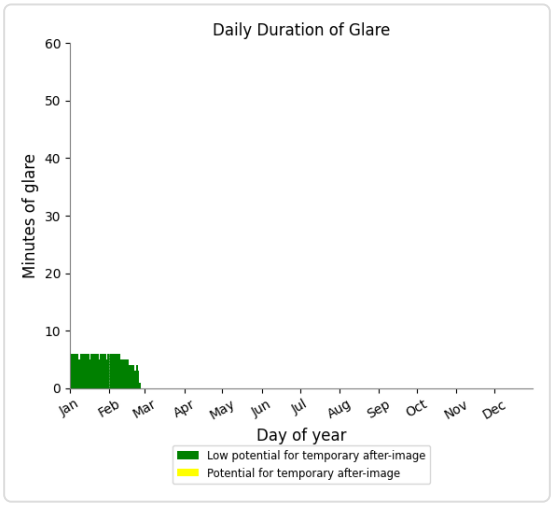


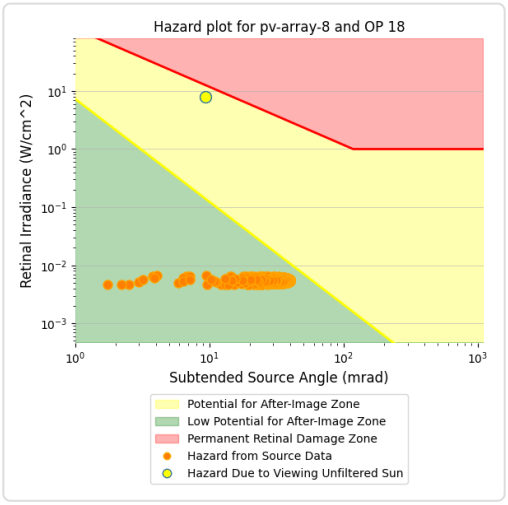
PV array 8 and OP 18

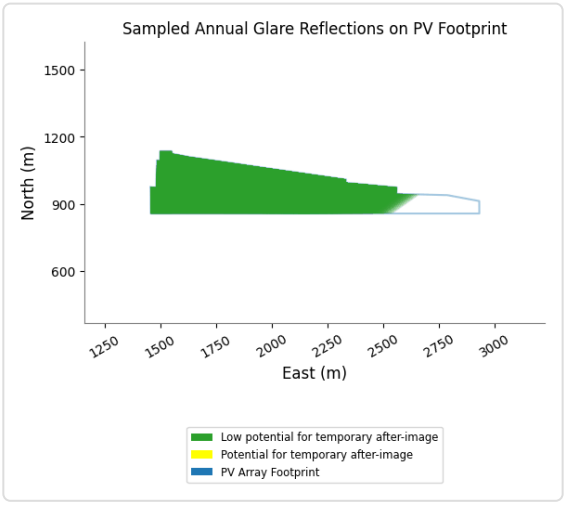
Yellow glare: none

Green glare: 300 min.





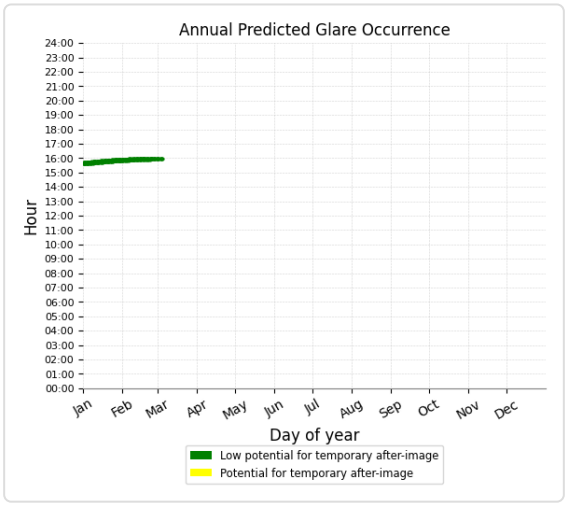


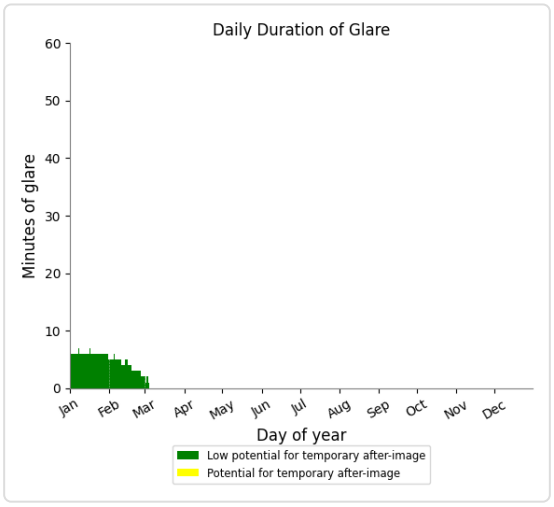


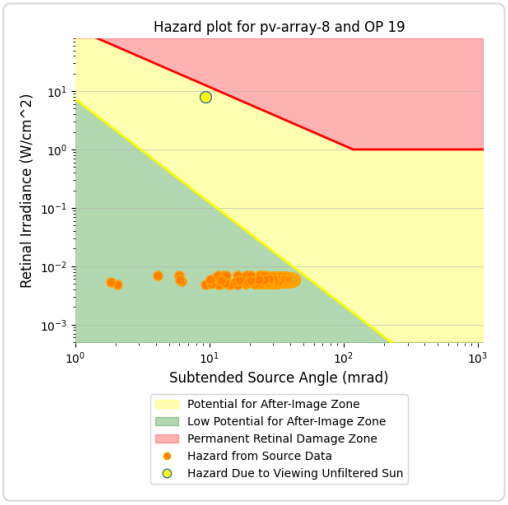
PV array 8 and OP 19

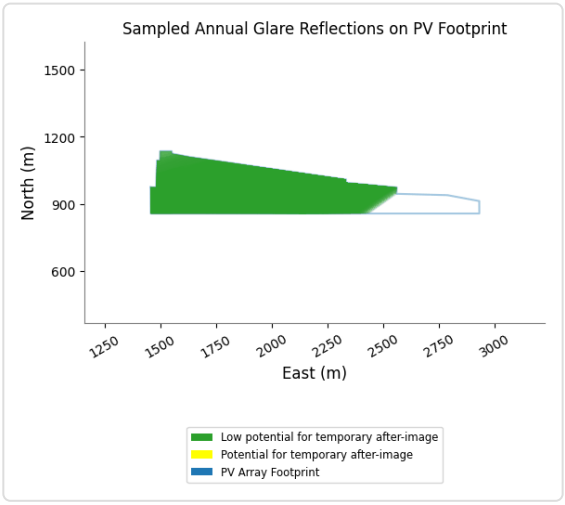
Yellow glare: none

Green glare: 306 min.





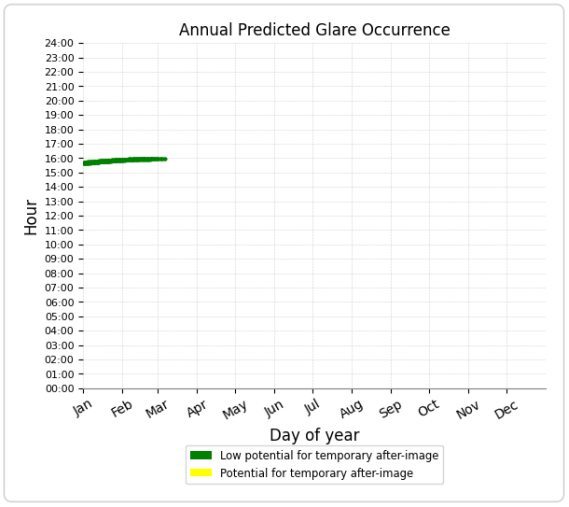


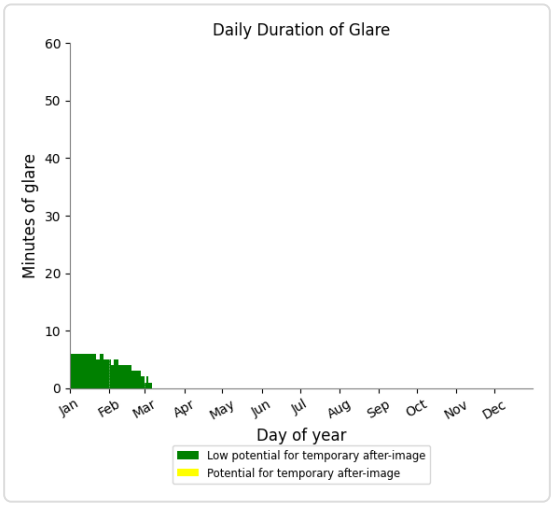


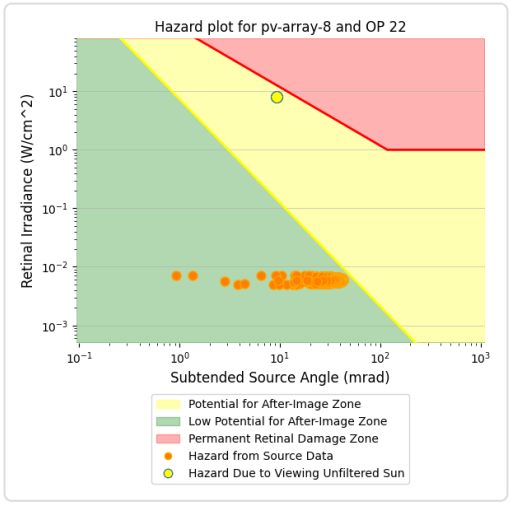
PV array 8 and OP 22

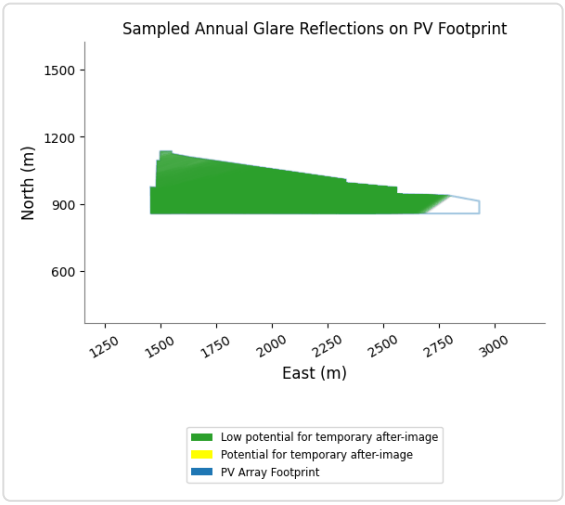
Yellow glare: none

Green glare: 290 min.





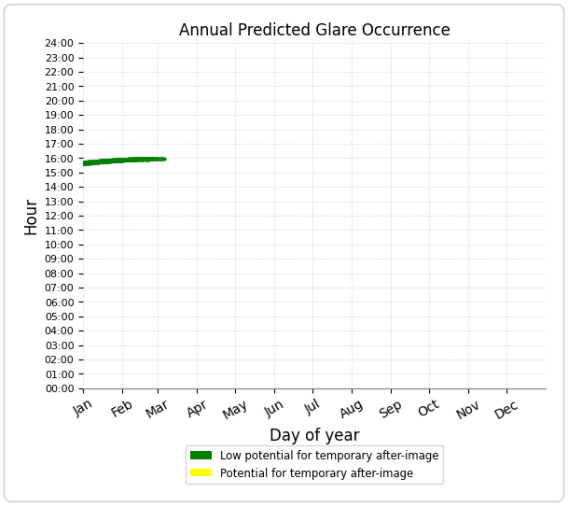


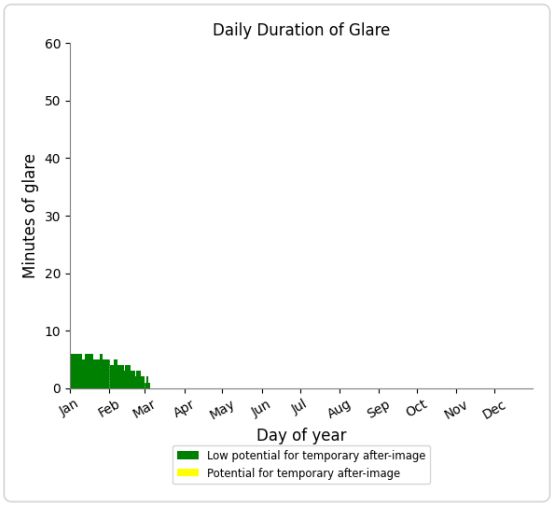


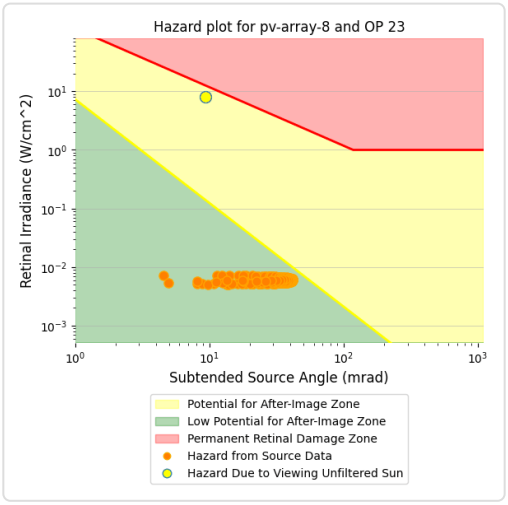
PV array 8 and OP 23

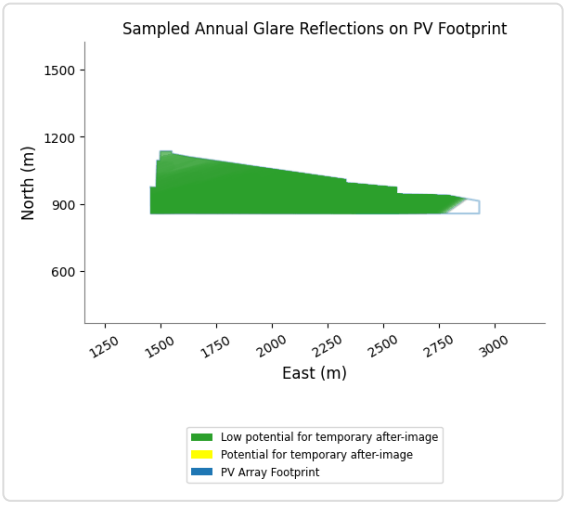
Yellow glare: none

Green glare: 280 min.





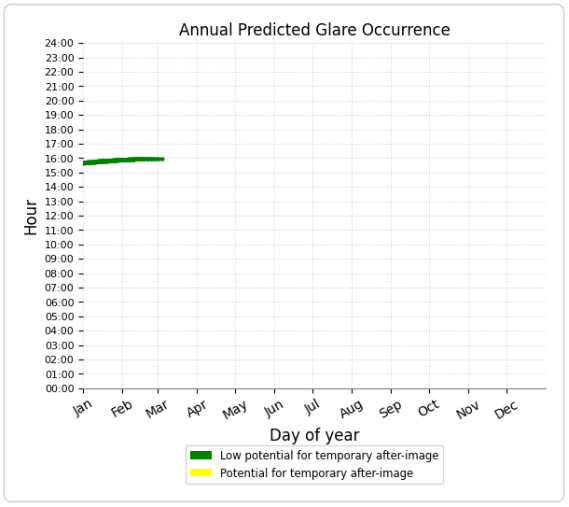


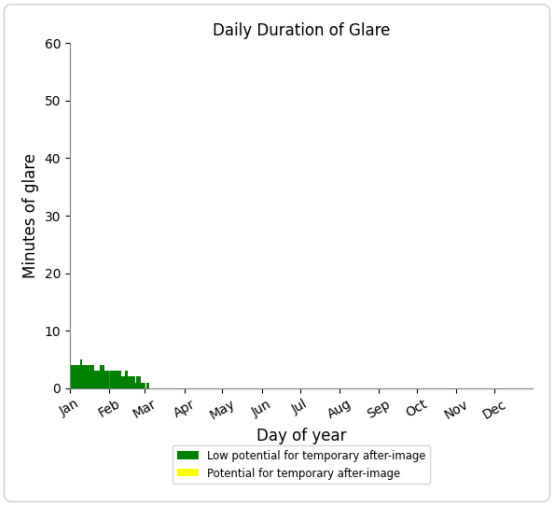


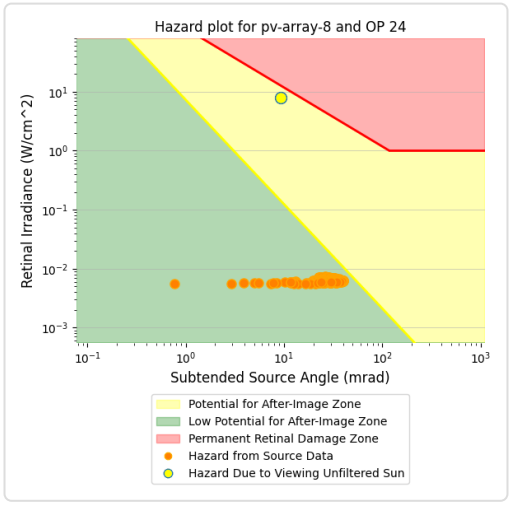
PV array 8 and OP 24

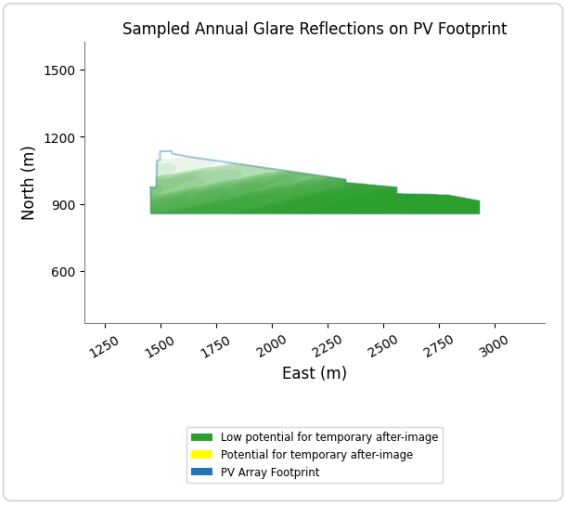
Yellow glare: none

Green glare: 185 min.



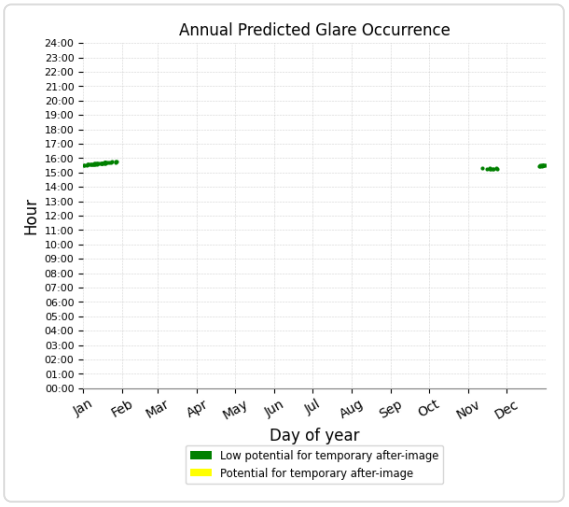


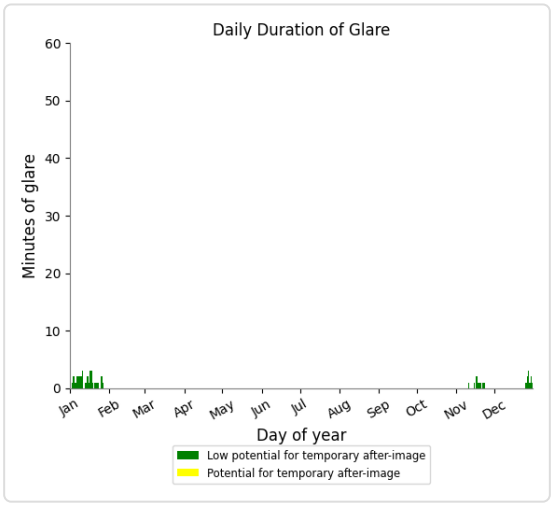


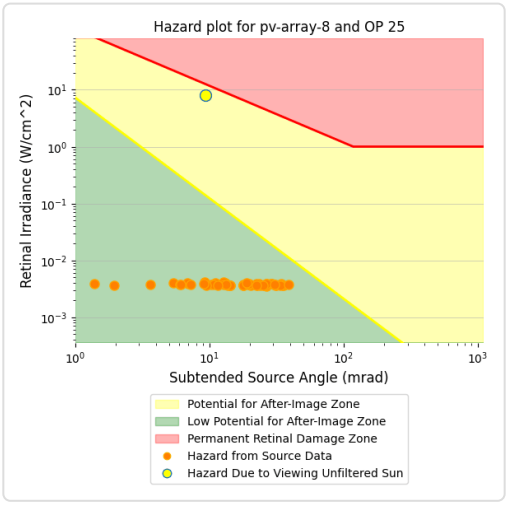


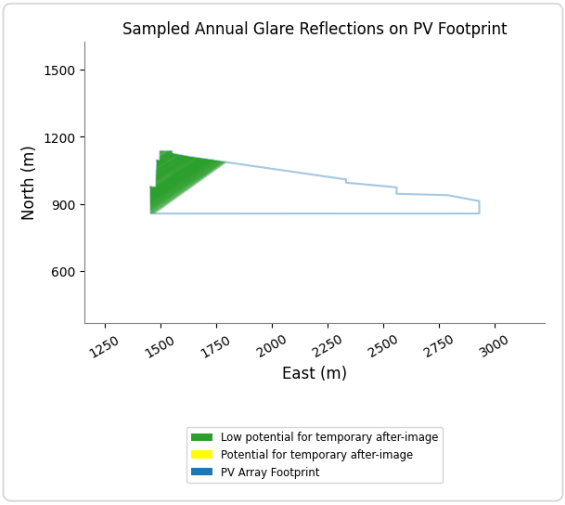
PV array 8 and OP 25

Yellow glare: none
Green glare: 55 min.









PV array 8 and OP 1

No glare found

PV array 8 and OP 2

No glare found

PV array 8 and OP 3

No glare found

PV array 8 and OP 4

No glare found

PV array 8 and OP 5

No glare found

PV array 8 and OP 6

No glare found

PV array 8 and OP 7

No glare found

PV array 8 and OP 8

No glare found

PV array 8 and OP 20

No glare found

PV array 8 and OP 21

No glare found

PV array 8 and OP 26

No glare found

PV array 8 and OP 27

No glare found

PV array 8 and OP 28

No glare found

PV array 8 and OP 29

No glare found

PV array 8 and OP 30

No glare found

PV array 8 and OP 31

No glare found

PV array 8 and OP 32

No glare found

PV array 8 and OP 33

No glare found

PV: PV array 9 no glare found

Receptor results ordered by category of glare

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

PV array 9 and Route: Avenue Road

No glare found

PV array 9 and Route: Main Camp Road

No glare found

PV array 9 and OP 1

No glare found

PV array 9 and OP 2

No glare found

PV array 9 and OP 3

No glare found

PV array 9 and OP 4

No glare found

PV array 9 and OP 5

No glare found

PV array 9 and OP 6

No glare found

PV array 9 and OP 7

No glare found

PV array 9 and OP 8

No glare found

PV array 9 and OP 9

No glare found

PV array 9 and OP 10

No glare found

PV array 9 and OP 11

No glare found

PV array 9 and OP 12

No glare found

PV array 9 and OP 13

No glare found

PV array 9 and OP 14

No glare found

PV array 9 and OP 15

No glare found

PV array 9 and OP 16

No glare found

PV array 9 and OP 17

No glare found

PV array 9 and OP 18

No glare found

PV array 9 and OP 19

No glare found

PV array 9 and OP 20

No glare found

PV array 9 and OP 21

No glare found

PV array 9 and OP 22

No glare found

PV array 9 and OP 23

No glare found

PV array 9 and OP 24

No glare found

PV array 9 and OP 25

No glare found

PV array 9 and OP 26

No glare found

PV array 9 and OP 27

No glare found

PV array 9 and OP 28

No glare found

PV array 9 and OP 29

No glare found

PV array 9 and OP 30

No glare found

PV array 9 and OP 31

No glare found

PV array 9 and OP 32

No glare found

PV array 9 and OP 33

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.
Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.
Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.
The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.
The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.
The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.
The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
Refer to the Help page at **www.forgesolar.com/help/** for assumptions and limitations not listed here.

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

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

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Glint and Glare Assessment Results Attachment B - Scenario 5

FORGESOLAR GLARE ANALYSIS

Project: **2320 Richmond Valley Solar Farm**
Site configuration: **2320 Richmond Valley 60d Resting Angle 20231211**

Created 11 Dec, 2023
Updated 18 Dec, 2023
Time-step 1 minute
Timezone offset UTC10
Minimum sun altitude 0.0 deg
DNI peaks at 1,000.0 W/m^2
Category 100 MW to 1 GW
Site ID 107581.18000

Ocular transmission coefficient 0.5
Pupil diameter 0.002 m
Eye focal length 0.017 m
Sun subtended angle 9.3 mrad
PV analysis methodology V2

Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	39,012	650.2	5,637	94.0	-
PV array 15	SA tracking	SA tracking	584	9.7	127	2.1	-
PV array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 19	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 23	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 8	SA tracking	SA tracking	4,334	72.2	19	0.3	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	25,082	418.0	5,656	94.3

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	1,029	17.1	127	2.1
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	261	4.3	0	0.0
OP 10	57	0.9	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	148	2.5	0	0.0
OP 16	488	8.1	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 20	0	0.0	0	0.0
OP 21	297	5.0	0	0.0
OP 22	290	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	55	0.9	0	0.0
OP 26	3,776	62.9	0	0.0
OP 27	3,102	51.7	0	0.0
OP 28	2,946	49.1	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	4,228	70.5	0	0.0

Component Data

PV Arrays

Name: PV array 1
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.101325	153.019581	366.24	2.50	368.74
2	-29.101319	153.022208	373.42	2.50	375.92
3	-29.101675	153.022244	322.35	2.50	324.85
4	-29.101686	153.024706	312.51	2.50	315.01
5	-29.102036	153.024742	303.12	2.50	305.62
6	-29.102033	153.026689	299.33	2.50	301.83
7	-29.102411	153.026725	328.19	2.50	330.69
8	-29.102419	153.028128	322.49	2.50	324.99
9	-29.103497	153.028139	354.56	2.50	357.06
10	-29.103500	153.028281	326.46	2.50	328.96
11	-29.104558	153.028281	314.31	2.50	316.81
12	-29.104567	153.026794	364.57	2.50	367.07
13	-29.104200	153.026775	369.06	2.50	371.56
14	-29.104211	153.025361	350.76	2.50	353.26
15	-29.103472	153.025344	337.49	2.50	339.99
16	-29.103472	153.019586	354.43	2.50	356.93

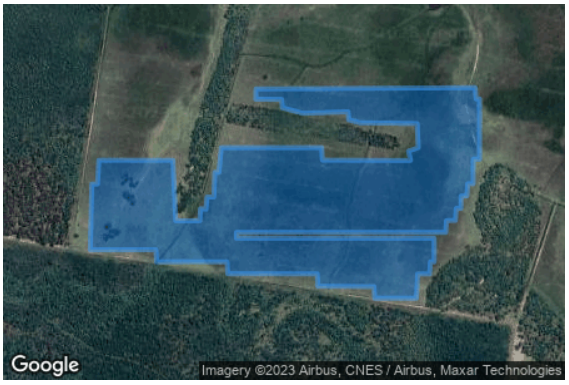
Name: PV array 10
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096789	153.033475	67.12	2.50	69.62
2	-29.096789	153.033625	94.58	2.50	97.08
3	-29.096086	153.033664	83.67	2.50	86.17
4	-29.096069	153.048192	86.35	2.50	88.85
5	-29.096428	153.048178	86.17	2.50	88.67
6	-29.096431	153.047381	77.50	2.50	80.00
7	-29.096778	153.047358	70.21	2.50	72.71
8	-29.096778	153.046492	64.01	2.50	66.51
9	-29.097136	153.046467	57.37	2.50	59.87
10	-29.097136	153.045553	58.92	2.50	61.42
11	-29.097508	153.045553	44.73	2.50	47.23
12	-29.097514	153.044489	51.53	2.50	54.03
13	-29.097786	153.044467	54.99	2.50	57.49
14	-29.097864	153.043553	60.25	2.50	62.75
15	-29.098228	153.043531	57.21	2.50	59.71
16	-29.098236	153.041514	58.17	2.50	60.67
17	-29.098608	153.041486	51.15	2.50	53.65
18	-29.098619	153.033442	60.48	2.50	62.98

Name: PV array 15
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

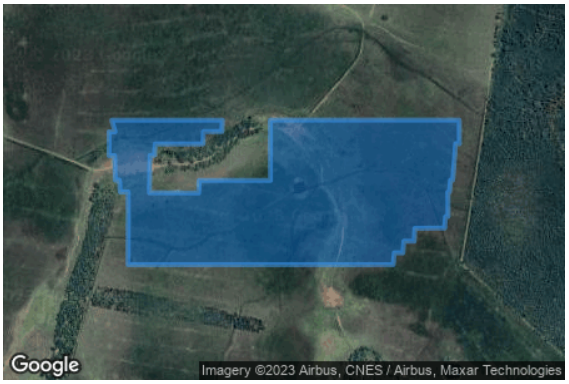
Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102156	153.044086	58.73	2.50	61.23
2	-29.102156	153.047328	63.32	2.50	65.82
3	-29.102194	153.047328	95.21	2.50	97.71
4	-29.102194	153.058594	119.73	2.50	122.23
5	-29.102550	153.058617	84.51	2.50	87.01
6	-29.102550	153.058697	82.32	2.50	84.82
7	-29.103253	153.058700	86.95	2.50	89.45
8	-29.103253	153.058464	98.42	2.50	100.92
9	-29.103636	153.058431	85.79	2.50	88.29
10	-29.103636	153.058125	71.39	2.50	73.89
11	-29.104347	153.058089	63.19	2.50	65.69
12	-29.104347	153.057872	68.64	2.50	71.14
13	-29.105078	153.057872	75.02	2.50	77.52
14	-29.105080	153.057786	73.92	2.50	76.42
15	-29.105431	153.057761	95.27	2.50	97.77
16	-29.105431	153.057622	95.06	2.50	97.56
17	-29.106164	153.057597	96.25	2.50	98.75
18	-29.106167	153.057461	85.20	2.50	87.70
19	-29.106514	153.057433	78.67	2.50	81.17
20	-29.106514	153.057292	76.66	2.50	79.16
21	-29.107410	153.057270	69.71	2.50	72.21
22	-29.107410	153.057190	70.70	2.50	73.20
23	-29.107760	153.057150	76.15	2.50	78.65
24	-29.107770	153.056900	69.23	2.50	71.73
25	-29.108870	153.056840	63.91	2.50	66.41
26	-29.108840	153.054250	69.03	2.50	71.53
27	-29.106690	153.054260	67.10	2.50	69.60
28	-29.106700	153.054510	61.84	2.50	64.34
29	-29.105460	153.054540	51.44	2.50	53.94
30	-29.105460	153.054670	46.48	2.50	48.98
31	-29.103650	153.054660	44.11	2.50	46.61
32	-29.103650	153.053990	50.89	2.50	53.39
33	-29.103260	153.053990	55.01	2.50	57.51
34	-29.103260	153.051930	50.62	2.50	53.12
35	-29.102900	153.051890	64.22	2.50	66.72
36	-29.102900	153.046260	78.81	2.50	81.31
37	-29.102530	153.046260	69.88	2.50	72.38
38	-29.102531	153.044111	81.44	2.50	83.94

Name: PV array 16
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109583	153.053697	35.88	2.50	38.38
2	-29.109580	153.053892	35.82	2.50	38.32
3	-29.108872	153.053936	34.22	2.50	36.72
4	-29.108872	153.056486	35.80	2.50	38.30
5	-29.110681	153.056581	33.60	2.50	36.10
6	-29.110680	153.057408	33.51	2.50	36.01
7	-29.110322	153.057431	33.12	2.50	35.62
8	-29.110333	153.057622	33.65	2.50	36.15
9	-29.109972	153.057656	34.81	2.50	37.31
10	-29.109969	153.057892	35.48	2.50	37.98
11	-29.109233	153.057922	37.27	2.50	39.77
12	-29.109230	153.058064	37.55	2.50	40.05
13	-29.108494	153.058144	37.24	2.50	39.74
14	-29.108494	153.061594	35.21	2.50	37.71
15	-29.108867	153.061622	34.11	2.50	36.61
16	-29.108875	153.064650	30.58	2.50	33.08
17	-29.108597	153.064578	31.08	2.50	33.58
18	-29.108494	153.064914	30.76	2.50	33.26
19	-29.107772	153.064875	32.09	2.50	34.59
20	-29.107750	153.062925	30.39	2.50	32.89
21	-29.107664	153.062525	32.23	2.50	34.73
22	-29.107419	153.062503	32.17	2.50	34.67
23	-29.107467	153.060950	34.16	2.50	36.66
24	-29.107297	153.060244	33.94	2.50	36.44
25	-29.107050	153.060219	33.92	2.50	36.42
26	-29.107044	153.059328	34.04	2.50	36.54
27	-29.106736	153.059336	34.04	2.50	36.54
28	-29.106700	153.066869	31.79	2.50	34.29
29	-29.107036	153.066903	31.47	2.50	33.97
30	-29.107036	153.067019	31.60	2.50	34.10
31	-29.108842	153.067022	33.82	2.50	36.32
32	-29.108842	153.066803	33.30	2.50	35.80
33	-29.109572	153.066800	34.25	2.50	36.75
34	-29.109570	153.066614	33.70	2.50	36.20
35	-29.109936	153.066586	34.18	2.50	36.68
36	-29.109940	153.066383	33.57	2.50	36.07
37	-29.110311	153.066380	34.11	2.50	36.61
38	-29.110310	153.066217	33.64	2.50	36.14
39	-29.110669	153.066192	34.08	2.50	36.58
40	-29.110675	153.065881	33.18	2.50	35.68
41	-29.111028	153.065858	33.66	2.50	36.16
42	-29.111028	153.058667	34.00	2.50	36.50
43	-29.111203	153.058667	34.00	2.50	36.50
44	-29.111203	153.065461	33.51	2.50	36.01
45	-29.111908	153.065461	35.73	2.50	38.23
46	-29.111908	153.065331	35.54	2.50	38.04
47	-29.112269	153.065303	35.50	2.50	38.00
48	-29.112270	153.064894	35.16	2.50	37.66
49	-29.112997	153.064853	35.92	2.50	38.42
50	-29.112997	153.063419	33.64	2.50	36.14
51	-29.112650	153.063394	34.07	2.50	36.57
52	-29.112639	153.061467	31.62	2.50	34.12
53	-29.112269	153.061444	32.22	2.50	34.72
54	-29.112264	153.058369	34.15	2.50	36.65
55	-29.111908	153.058342	34.08	2.50	36.58
56	-29.111908	153.055928	33.83	2.50	36.33
57	-29.111547	153.055900	33.61	2.50	36.11
58	-29.111550	153.053644	40.15	2.50	42.65

Name: PV array 17
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102197	153.059017	39.95	2.50	42.45
2	-29.102194	153.062817	37.76	2.50	40.26
3	-29.102533	153.062803	35.96	2.50	38.46
4	-29.102539	153.062167	38.22	2.50	40.72
5	-29.102906	153.062150	38.04	2.50	40.54
6	-29.102910	153.060506	39.98	2.50	42.48
7	-29.103247	153.060483	38.09	2.50	40.59
8	-29.103253	153.060331	35.83	2.50	38.33
9	-29.104367	153.060311	35.23	2.50	37.73
10	-29.104375	153.062003	35.00	2.50	37.50
11	-29.103994	153.062019	35.26	2.50	37.76
12	-29.104000	153.064469	35.33	2.50	37.83
13	-29.102194	153.064467	41.33	2.50	43.83
14	-29.102194	153.070958	35.53	2.50	38.03
15	-29.102900	153.070964	31.99	2.50	34.49
16	-29.102900	153.070833	34.31	2.50	36.81
17	-29.103986	153.070736	38.09	2.50	40.59
18	-29.103992	153.070656	36.86	2.50	39.36
19	-29.104342	153.070622	35.58	2.50	38.08
20	-29.104344	153.070567	35.32	2.50	37.82
21	-29.105078	153.070575	39.57	2.50	42.07
22	-29.105080	153.070486	39.78	2.50	42.28
23	-29.105425	153.070458	37.46	2.50	39.96
24	-29.105431	153.069433	34.45	2.50	36.95
25	-29.105819	153.069408	43.72	2.50	46.22
26	-29.105819	153.069053	44.69	2.50	47.19
27	-29.106167	153.069022	39.39	2.50	41.89
28	-29.106167	153.068725	33.07	2.50	35.57
29	-29.106519	153.068689	38.03	2.50	40.53
30	-29.106520	153.059578	36.08	2.50	38.58
31	-29.104344	153.059583	36.72	2.50	39.22
32	-29.104347	153.059308	37.07	2.50	39.57
33	-29.103989	153.059278	37.85	2.50	40.35
34	-29.103989	153.059139	38.21	2.50	40.71
35	-29.103253	153.059111	40.68	2.50	43.18
36	-29.103253	153.058922	39.83	2.50	42.33
37	-29.102544	153.058922	38.08	2.50	40.58
38	-29.102544	153.059133	37.66	2.50	40.16

Name: PV array 18
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109586	153.069572	30.93	2.50	33.43
2	-29.109592	153.071361	29.24	2.50	31.74
3	-29.109972	153.071386	29.96	2.50	32.46
4	-29.109978	153.072467	30.00	2.50	32.50
5	-29.110311	153.072500	30.00	2.50	32.50
6	-29.110319	153.073303	31.15	2.50	33.65
7	-29.110672	153.073361	30.64	2.50	33.14
8	-29.112108	153.073353	28.68	2.50	31.18
9	-29.112119	153.072439	30.64	2.50	33.14
10	-29.112300	153.072442	30.87	2.50	33.37
11	-29.112300	153.074256	29.00	2.50	31.50
12	-29.112653	153.074275	29.74	2.50	32.24
13	-29.112661	153.074633	29.77	2.50	32.27
14	-29.113006	153.074628	30.79	2.50	33.29
15	-29.113006	153.076522	29.89	2.50	32.39
16	-29.112797	153.076511	29.59	2.50	32.09
17	-29.112797	153.078297	26.43	2.50	28.93
18	-29.113372	153.078353	27.13	2.50	29.63
19	-29.114981	153.078347	29.88	2.50	32.38
20	-29.114969	153.078094	29.97	2.50	32.47
21	-29.115317	153.078075	30.26	2.50	32.76
22	-29.115320	153.076460	34.27	2.50	36.77
23	-29.115528	153.076456	33.21	2.50	35.71
24	-29.115525	153.070742	31.94	2.50	34.44
25	-29.114467	153.070742	30.74	2.50	33.24
26	-29.114467	153.070797	30.48	2.50	32.98
27	-29.113725	153.070797	30.05	2.50	32.55
28	-29.113725	153.070239	31.57	2.50	34.07
29	-29.113350	153.070219	31.26	2.50	33.76
30	-29.113350	153.070125	31.37	2.50	33.87
31	-29.113000	153.070100	31.06	2.50	33.56
32	-29.113000	153.069572	31.53	2.50	34.03

Name: PV array 19
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.095008	153.049878	30.65	2.50	33.15
2	-29.095006	153.067636	55.88	2.50	58.38
3	-29.095361	153.067678	52.05	2.50	54.55
4	-29.095372	153.070639	54.94	2.50	57.44
5	-29.095722	153.070672	51.58	2.50	54.08
6	-29.095733	153.071469	49.76	2.50	52.26
7	-29.097678	153.071458	43.37	2.50	45.87
8	-29.097692	153.071583	43.76	2.50	46.26
9	-29.099842	153.071569	35.11	2.50	37.61
10	-29.099842	153.071353	33.97	2.50	36.47
11	-29.100928	153.071347	33.60	2.50	36.10
12	-29.100928	153.071208	33.60	2.50	36.10
13	-29.101667	153.071186	35.03	2.50	37.53
14	-29.101658	153.071047	35.08	2.50	37.58
15	-29.102022	153.071031	35.02	2.50	37.52
16	-29.102020	153.047342	32.77	2.50	35.27
17	-29.102114	153.047336	32.68	2.50	35.18
18	-29.102111	153.044069	34.04	2.50	36.54
19	-29.102019	153.044086	34.00	2.50	36.50
20	-29.102014	153.039336	38.65	2.50	41.15
21	-29.099867	153.039331	37.84	2.50	40.34
22	-29.099861	153.040528	36.06	2.50	38.56
23	-29.099494	153.040547	35.30	2.50	37.80
24	-29.099494	153.043892	32.13	2.50	34.63
25	-29.100950	153.043914	33.56	2.50	36.06
26	-29.100958	153.045236	34.06	2.50	36.56
27	-29.100580	153.045280	34.35	2.50	36.85
28	-29.100570	153.046140	33.76	2.50	36.26
29	-29.100220	153.046170	35.46	2.50	37.96
30	-29.100220	153.046440	35.17	2.50	37.67
31	-29.100570	153.046470	33.65	2.50	36.15
32	-29.100570	153.046810	33.54	2.50	36.04
33	-29.100220	153.046830	34.76	2.50	37.26
34	-29.100220	153.048570	34.30	2.50	36.80
35	-29.099860	153.048580	34.26	2.50	36.76
36	-29.099860	153.055040	30.23	2.50	32.73
37	-29.097520	153.055040	29.19	2.50	31.69
38	-29.097508	153.049244	29.61	2.50	32.11
39	-29.096461	153.049253	28.44	2.50	30.94

Name: PV array 2
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103011	153.028981	45.87	2.50	48.37
2	-29.103033	153.031867	42.45	2.50	44.95
3	-29.105117	153.031872	39.58	2.50	42.08
4	-29.105139	153.029231	43.48	2.50	45.98
5	-29.104064	153.029211	43.73	2.50	46.23
6	-29.104044	153.028956	41.58	2.50	44.08

Name: PV array 20
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.097756	153.046586	30.04	2.50	32.54
2	-29.097722	153.046661	30.51	2.50	33.01
3	-29.097722	153.050819	31.18	2.50	33.68
4	-29.098397	153.050817	30.55	2.50	33.05
5	-29.098400	153.050675	29.78	2.50	32.28
6	-29.098433	153.050681	29.76	2.50	32.26
7	-29.098430	153.049186	29.93	2.50	32.43
8	-29.098747	153.049158	31.20	2.50	33.70
9	-29.098744	153.049008	30.31	2.50	32.81
10	-29.098781	153.048992	30.37	2.50	32.87
11	-29.098789	153.045769	30.60	2.50	33.10
12	-29.098081	153.045769	31.10	2.50	33.60
13	-29.098089	153.046567	32.80	2.50	35.30

Name: PV array 21
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.119964	153.067553	34.62	2.50	37.12
2	-29.119931	153.071286	34.59	2.50	37.09
3	-29.120281	153.071325	33.95	2.50	36.45
4	-29.120344	153.073556	31.66	2.50	34.16
5	-29.120458	153.073553	31.39	2.50	33.89
6	-29.120464	153.075878	34.40	2.50	36.90
7	-29.120114	153.075856	33.35	2.50	35.85
8	-29.120114	153.078875	29.83	2.50	32.33
9	-29.120853	153.078881	29.81	2.50	32.31
10	-29.120853	153.078372	29.48	2.50	31.98
11	-29.121589	153.078375	30.72	2.50	33.22
12	-29.121597	153.077969	30.34	2.50	32.84
13	-29.121947	153.077806	30.38	2.50	32.88
14	-29.121947	153.077344	29.07	2.50	31.57
15	-29.122303	153.077336	29.04	2.50	31.54
16	-29.122294	153.075361	32.04	2.50	34.54
17	-29.121594	153.075361	34.77	2.50	37.27
18	-29.121586	153.073336	29.42	2.50	31.92
19	-29.121239	153.073328	29.58	2.50	32.08
20	-29.121294	153.070856	32.46	2.50	34.96
21	-29.121714	153.070683	31.91	2.50	34.41
22	-29.121714	153.070081	32.74	2.50	35.24
23	-29.122067	153.069833	32.73	2.50	35.23
24	-29.122103	153.067342	29.46	2.50	31.96
25	-29.121022	153.067347	32.75	2.50	35.25
26	-29.121022	153.067553	32.13	2.50	34.63

Name: PV array 22
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.114775	153.080247	54.75	2.50	57.25
2	-29.114775	153.080583	53.92	2.50	56.42
3	-29.115122	153.080614	56.19	2.50	58.69
4	-29.115125	153.080961	59.96	2.50	62.46
5	-29.115822	153.080961	55.06	2.50	57.56
6	-29.115822	153.080836	49.55	2.50	52.05
7	-29.116564	153.080797	49.76	2.50	52.26
8	-29.116564	153.080217	46.19	2.50	48.69
9	-29.116928	153.080192	43.83	2.50	46.33
10	-29.116928	153.079286	43.59	2.50	46.09
11	-29.117444	153.079256	45.43	2.50	47.93
12	-29.117444	153.078672	40.64	2.50	43.14
13	-29.117797	153.078642	41.60	2.50	44.10
14	-29.117797	153.078194	41.85	2.50	44.35
15	-29.117103	153.078194	41.39	2.50	43.89
16	-29.117103	153.078386	41.00	2.50	43.50
17	-29.116203	153.078425	51.19	2.50	53.69
18	-29.116208	153.078614	48.69	2.50	51.19
19	-29.115853	153.078644	55.75	2.50	58.25
20	-29.115853	153.079003	60.58	2.50	63.08
21	-29.115475	153.079028	56.40	2.50	58.90
22	-29.115481	153.079553	48.27	2.50	50.77
23	-29.115125	153.079589	49.11	2.50	51.61
24	-29.115128	153.080219	57.49	2.50	59.99

Name: PV array 23
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.115711	153.068300	41.50	2.50	44.00
2	-29.115708	153.077564	41.51	2.50	44.01
3	-29.116775	153.077617	41.78	2.50	44.28
4	-29.116775	153.077372	41.72	2.50	44.22
5	-29.117500	153.077344	41.23	2.50	43.73
6	-29.117500	153.077214	40.70	2.50	43.20
7	-29.117853	153.077178	40.00	2.50	42.50
8	-29.117858	153.077039	40.44	2.50	42.94
9	-29.118383	153.077014	41.50	2.50	44.00
10	-29.118383	153.076644	41.18	2.50	43.68
11	-29.118739	153.076631	40.28	2.50	42.78
12	-29.118739	153.075653	39.12	2.50	41.62
13	-29.119083	153.075622	38.34	2.50	40.84
14	-29.119083	153.072625	39.10	2.50	41.60
15	-29.118736	153.072594	40.48	2.50	42.98
16	-29.118736	153.068858	40.41	2.50	42.91
17	-29.118383	153.068831	42.05	2.50	44.55
18	-29.118383	153.067967	42.40	2.50	44.90
19	-29.116806	153.067970	42.22	2.50	44.72
20	-29.116810	153.068106	42.02	2.50	44.52
21	-29.116053	153.068131	41.65	2.50	44.15
22	-29.116050	153.068272	42.27	2.50	44.77

Name: PV array 3
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103158	153.033744	37.67	2.50	40.17
2	-29.103161	153.034311	44.09	2.50	46.59
3	-29.103506	153.034347	49.91	2.50	52.41
4	-29.103506	153.035361	50.39	2.50	52.89
5	-29.103864	153.035389	48.02	2.50	50.52
6	-29.103864	153.035694	46.05	2.50	48.55
7	-29.104236	153.035733	43.39	2.50	45.89
8	-29.104242	153.036075	41.79	2.50	44.29
9	-29.105681	153.036081	43.07	2.50	45.57
10	-29.105678	153.035300	40.37	2.50	42.87
11	-29.105300	153.035261	38.35	2.50	40.85
12	-29.105300	153.033747	38.15	2.50	40.65

Name: PV array 4
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.100956	153.029697	61.70	2.50	64.20
2	-29.100960	153.033861	52.05	2.50	54.55
3	-29.102319	153.033872	41.22	2.50	43.72
4	-29.102206	153.029711	55.91	2.50	58.41

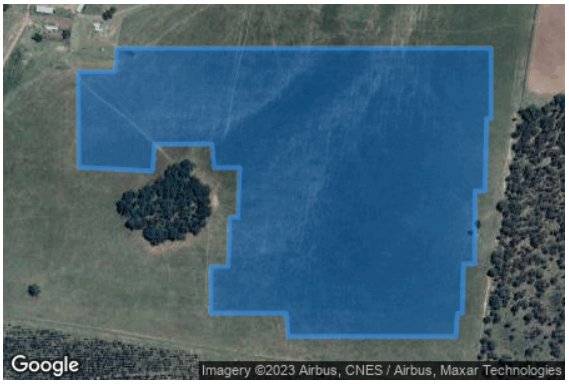
Name: PV array 5
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096244	153.020017	63.68	2.50	66.18
2	-29.096258	153.021258	58.95	2.50	61.45
3	-29.096144	153.021281	58.13	2.50	60.63
4	-29.096142	153.022628	52.57	2.50	55.07
5	-29.096497	153.022653	51.62	2.50	54.12
6	-29.096506	153.025769	53.56	2.50	56.06
7	-29.096856	153.025817	52.73	2.50	55.23
8	-29.096858	153.026111	52.97	2.50	55.47
9	-29.097494	153.026317	52.15	2.50	54.65
10	-29.097789	153.027056	53.44	2.50	55.94
11	-29.098275	153.027050	51.11	2.50	53.61
12	-29.098319	153.019792	51.02	2.50	53.52
13	-29.098064	153.019775	50.99	2.50	53.49
14	-29.097667	153.020156	52.49	2.50	54.99
15	-29.097636	153.020281	52.49	2.50	54.99
16	-29.096947	153.020283	54.63	2.50	57.13
17	-29.096931	153.020225	54.40	2.50	56.90
18	-29.096930	153.020225	52.63	2.50	55.13
19	-29.096930	153.020225	56.59	2.50	59.09

Name: PV array 6
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.098411	153.019708	52.49	2.50	54.99
2	-29.098410	153.022644	54.27	2.50	56.77
3	-29.098453	153.022644	54.17	2.50	56.67
4	-29.098453	153.025644	52.52	2.50	55.02
5	-29.098406	153.025644	52.52	2.50	55.02
6	-29.098410	153.026583	50.97	2.50	53.47
7	-29.098456	153.026583	50.96	2.50	53.46
8	-29.098460	153.028092	50.98	2.50	53.48
9	-29.098806	153.028111	49.50	2.50	52.00
10	-29.098814	153.028110	49.50	2.50	52.00
11	-29.100568	153.028106	43.03	2.50	45.53
12	-29.100578	153.028090	43.04	2.50	45.54
13	-29.100586	153.028083	43.04	2.50	45.54
14	-29.100586	153.024706	46.96	2.50	49.46
15	-29.100236	153.024675	47.84	2.50	50.34
16	-29.100236	153.024317	47.76	2.50	50.26
17	-29.099511	153.024286	51.07	2.50	53.57
18	-29.099503	153.021261	52.06	2.50	54.56
19	-29.099153	153.021256	51.64	2.50	54.14
20	-29.099147	153.019714	53.21	2.50	55.71

Name: PV array 7
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.35
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102553	153.036561	61.89	2.50	64.39
2	-29.102550	153.037192	57.69	2.50	60.19
3	-29.102203	153.037222	56.56	2.50	59.06
4	-29.102200	153.043656	57.79	2.50	60.29
5	-29.103258	153.043656	59.96	2.50	62.46
6	-29.103258	153.043578	60.09	2.50	62.59
7	-29.104339	153.043550	61.32	2.50	63.82
8	-29.104344	153.043381	63.82	2.50	66.32
9	-29.105428	153.043375	64.55	2.50	67.05
10	-29.105430	153.043181	65.16	2.50	67.66
11	-29.106169	153.043158	66.84	2.50	69.34
12	-29.106170	153.043078	69.07	2.50	71.57
13	-29.106517	153.043053	71.34	2.50	73.84
14	-29.106517	153.040167	72.19	2.50	74.69
15	-29.106167	153.040136	70.00	2.50	72.50
16	-29.106167	153.038839	69.02	2.50	71.52
17	-29.105467	153.038839	69.78	2.50	72.28
18	-29.105470	153.039136	74.83	2.50	77.33
19	-29.104728	153.039169	75.24	2.50	77.74
20	-29.104728	153.039303	72.87	2.50	75.37
21	-29.103992	153.039336	67.81	2.50	70.31
22	-29.103990	153.038897	63.04	2.50	65.54
23	-29.103636	153.038858	60.65	2.50	63.15
24	-29.103640	153.037875	61.34	2.50	63.84
25	-29.104042	153.037839	65.75	2.50	68.25
26	-29.103986	153.036569	63.73	2.50	66.23

Name: PV array 8
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.092536	153.034539	49.37	2.50	51.87
2	-29.092539	153.034797	46.57	2.50	49.07
3	-29.091453	153.034833	44.03	2.50	46.53
4	-29.091453	153.034972	42.10	2.50	44.60
5	-29.091078	153.034981	41.53	2.50	44.03
6	-29.091078	153.035514	38.85	2.50	41.35
7	-29.091175	153.035525	37.65	2.50	40.15
8	-29.091308	153.036322	36.36	2.50	38.86
9	-29.092222	153.043542	34.71	2.50	37.21
10	-29.092350	153.043533	33.71	2.50	36.21
11	-29.092544	153.045875	34.18	2.50	36.68
12	-29.092803	153.045858	35.67	2.50	38.17
13	-29.092858	153.048208	36.30	2.50	38.80
14	-29.093097	153.049672	36.65	2.50	39.15
15	-29.093600	153.049675	36.09	2.50	38.59
16	-29.093600	153.034550	36.90	2.50	39.40
17	-29.093600	153.034550	38.56	2.50	41.06
18	-29.093600	153.034550	40.09	2.50	42.59
19	-29.093600	153.034550	43.30	2.50	45.80
20	-29.093600	153.034550	46.85	2.50	49.35
21	-29.093600	153.034550	50.12	2.50	52.62
22	-29.093600	153.034550	50.80	2.50	53.30

Name: PV array 9
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.44
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.093742	153.034075	47.59	2.50	50.09
2	-29.093742	153.047911	29.17	2.50	31.67
3	-29.093636	153.047906	29.32	2.50	31.82
4	-29.093640	153.047924	29.32	2.50	31.82
5	-29.094433	153.049239	29.11	2.50	31.61
6	-29.094433	153.049097	29.00	2.50	31.50
7	-29.094797	153.049075	29.37	2.50	31.87
8	-29.094797	153.048883	29.37	2.50	31.87
9	-29.095178	153.048853	29.93	2.50	32.43
10	-29.095178	153.048714	29.93	2.50	32.43
11	-29.095531	153.048686	29.56	2.50	32.06
12	-29.095533	153.048492	29.56	2.50	32.06
13	-29.095894	153.048458	29.04	2.50	31.54
14	-29.095890	153.034044	50.01	2.50	52.51

Route Receptors

Name: Avenue Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.104310	153.008342	42.58	2.40	44.98
2	-29.100917	153.012869	48.57	2.40	50.97
3	-29.099510	153.019414	55.62	2.40	58.02
4	-29.101310	153.026194	44.13	2.40	46.53
5	-29.100501	153.029799	39.40	2.40	41.80
6	-29.100182	153.033833	38.23	2.40	40.63
7	-29.099919	153.034691	38.36	2.40	40.76
8	-29.099619	153.036214	38.31	2.40	40.71
9	-29.099788	153.037373	38.57	2.40	40.97
10	-29.098748	153.043470	32.00	2.40	34.40
11	-29.096820	153.048507	29.92	2.40	32.32
12	-29.092638	153.050803	31.00	2.40	33.40
13	-29.089901	153.051575	41.28	2.40	43.68
14	-29.088341	153.054683	47.04	2.40	49.44
15	-29.087047	153.056636	55.63	2.40	58.03
16	-29.086241	153.058610	59.01	2.40	61.41
17	-29.084685	153.059683	59.79	2.40	62.19

Name: Main Camp Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.130769	153.064031	35.05	2.40	37.45
2	-29.130881	153.067035	33.07	2.40	35.47
3	-29.130450	153.072142	26.52	2.40	28.92
4	-29.129644	153.084169	26.00	2.40	28.40

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (m)	Height (m)
OP 1	1	-29.098436	153.005919	57.00	1.50
OP 2	2	-29.098614	153.005617	58.18	1.50
OP 3	3	-29.098942	153.009817	58.46	1.50
OP 4	4	-29.104081	153.007164	43.97	1.50
OP 5	5	-29.105522	153.007317	42.09	1.50
OP 6	6	-29.104364	153.005417	45.19	1.50
OP 7	7	-29.105019	153.006536	45.10	1.50
OP 8	8	-29.117603	153.001347	38.65	1.50
OP 9	9	-29.083078	153.055558	73.37	1.50
OP 10	10	-29.076967	153.057103	64.26	1.50
OP 11	11	-29.080647	153.066289	49.73	1.50
OP 12	12	-29.083183	153.068906	49.76	1.50
OP 13	13	-29.080508	153.075694	58.03	1.50
OP 14	14	-29.072514	153.073319	58.38	1.50
OP 15	15	-29.079144	153.061150	62.76	1.50
OP 16	16	-29.084792	153.057350	64.28	1.50
OP 17	17	-29.087883	153.058739	46.82	1.50
OP 18	18	-29.081653	153.067194	53.77	1.50
OP 19	19	-29.085114	153.060258	60.28	1.50
OP 20	20	-29.090203	153.055103	40.01	1.50
OP 21	21	-29.106228	153.101144	34.31	1.50
OP 22	22	-29.084800	153.063742	69.22	1.50
OP 23	23	-29.084386	153.065572	66.41	1.50
OP 24	24	-29.084969	153.068331	50.01	1.50
OP 25	25	-29.081494	153.054019	74.64	1.50
OP 26	26	-29.131783	153.064194	34.19	1.50
OP 27	27	-29.132158	153.065619	34.34	1.50
OP 28	28	-29.131331	153.065711	36.18	1.50
OP 29	29	-29.138036	153.099008	43.00	1.50
OP 30	30	-29.134267	153.099875	41.44	1.50
OP 31	31	-29.138078	153.100536	38.27	1.50
OP 32	32	-29.132817	153.101467	42.08	1.50
OP 33	33	-29.134686	153.059939	31.67	1.50

Glare Analysis Results

Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	39,012	650.2	5,637	94.0	-
PV array 15	SA tracking	SA tracking	584	9.7	127	2.1	-
PV array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 19	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 23	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 8	SA tracking	SA tracking	4,334	72.2	19	0.3	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Avenue Road	25,082	418.0	5,656	94.3
Main Camp Road	1,029	17.1	127	2.1

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	261	4.3	0	0.0
OP 10	57	0.9	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	148	2.5	0	0.0
OP 16	488	8.1	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 20	0	0.0	0	0.0
OP 21	297	5.0	0	0.0
OP 22	290	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	55	0.9	0	0.0
OP 26	3,776	62.9	0	0.0
OP 27	3,102	51.7	0	0.0
OP 28	2,946	49.1	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	4,228	70.5	0	0.0

PV: PV array 1 no glare found

Receptor results ordered by category of glare

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

PV array 1 and Route: Avenue Road

No glare found

PV array 1 and Route: Main Camp Road

No glare found

PV array 1 and OP 1

No glare found

PV array 1 and OP 2

No glare found

PV array 1 and OP 3

No glare found

PV array 1 and OP 4

No glare found

PV array 1 and OP 5

No glare found

PV array 1 and OP 6

No glare found

PV array 1 and OP 7

No glare found

PV array 1 and OP 8

No glare found

PV array 1 and OP 9

No glare found

PV array 1 and OP 10

No glare found

PV array 1 and OP 11

No glare found

PV array 1 and OP 12

No glare found

PV array 1 and OP 13

No glare found

PV array 1 and OP 14

No glare found

PV array 1 and OP 15

No glare found

PV array 1 and OP 16

No glare found

PV array 1 and OP 17

No glare found

PV array 1 and OP 18

No glare found

PV array 1 and OP 19

No glare found

PV array 1 and OP 20

No glare found

PV array 1 and OP 21

No glare found

PV array 1 and OP 22

No glare found

PV array 1 and OP 23

No glare found

PV array 1 and OP 24

No glare found

PV array 1 and OP 25

No glare found

PV array 1 and OP 26

No glare found

PV array 1 and OP 27

No glare found

PV array 1 and OP 28

No glare found

PV array 1 and OP 29

No glare found

PV array 1 and OP 30

No glare found

PV array 1 and OP 31

No glare found

PV array 1 and OP 32

No glare found

PV array 1 and OP 33

No glare found

PV: PV array 10 potential temporary after-image

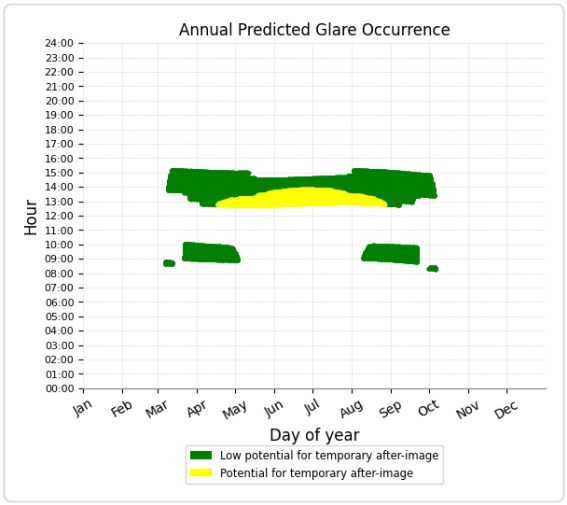
Receptor results ordered by category of glare

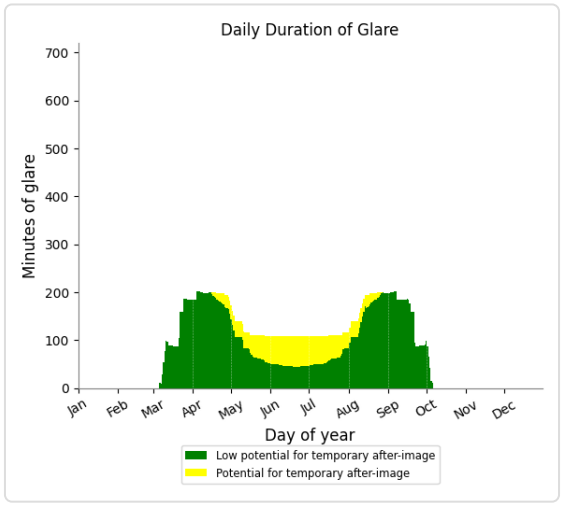
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	24,218	403.6	5,637	94.0
Main Camp Road	742	12.4	0	0.0
OP 26	3,776	62.9	0	0.0
OP 27	3,102	51.7	0	0.0
OP 28	2,946	49.1	0	0.0
OP 33	4,228	70.5	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0

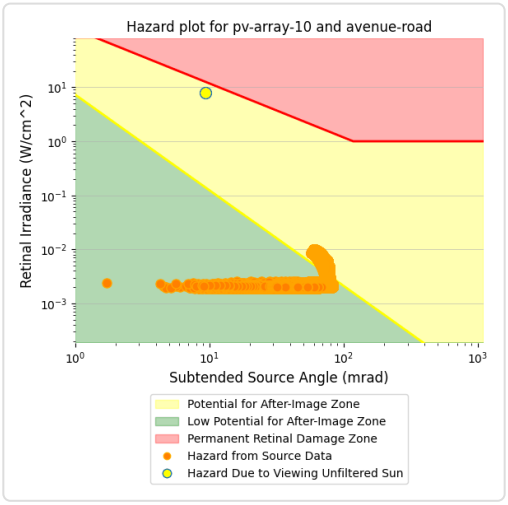
PV array 10 and Route: Avenue Road

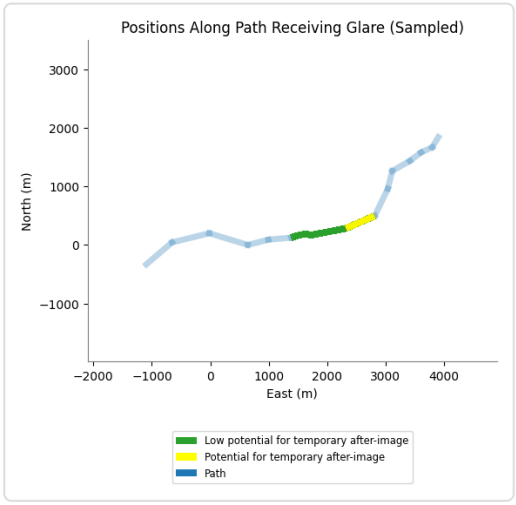
Yellow glare: 5,637 min.

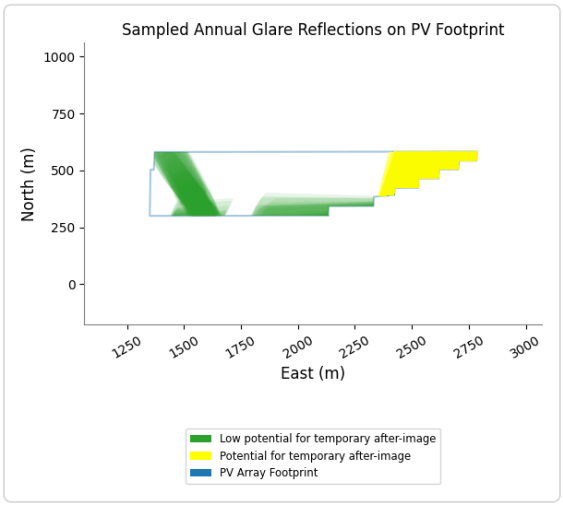
Green glare: 24,218 min.







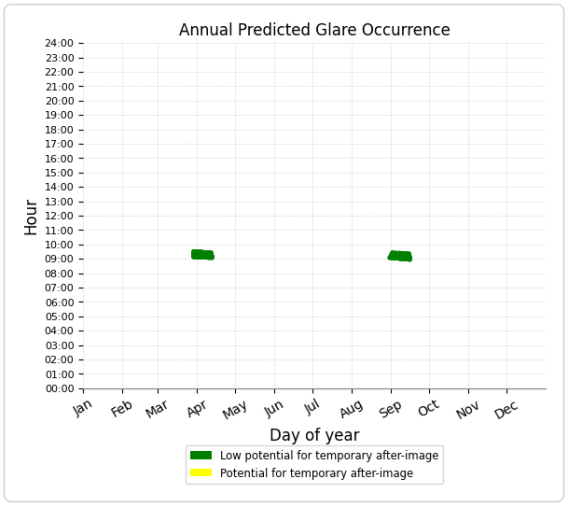


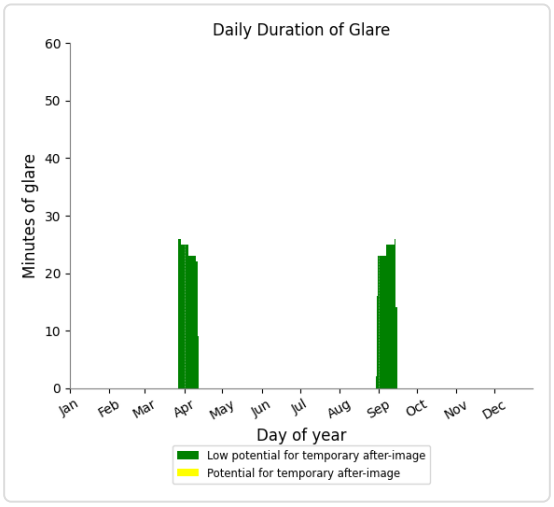


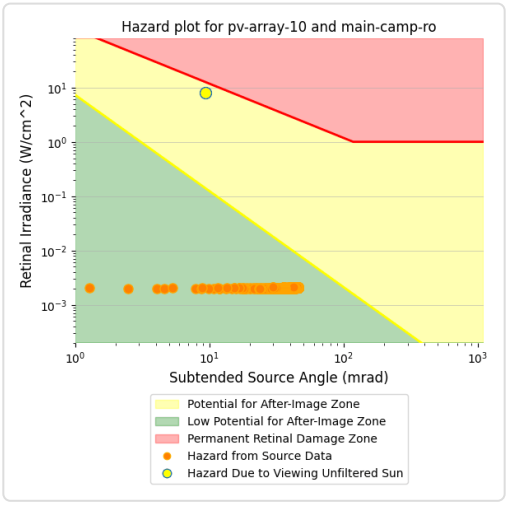
PV array 10 and Route: Main Camp Road

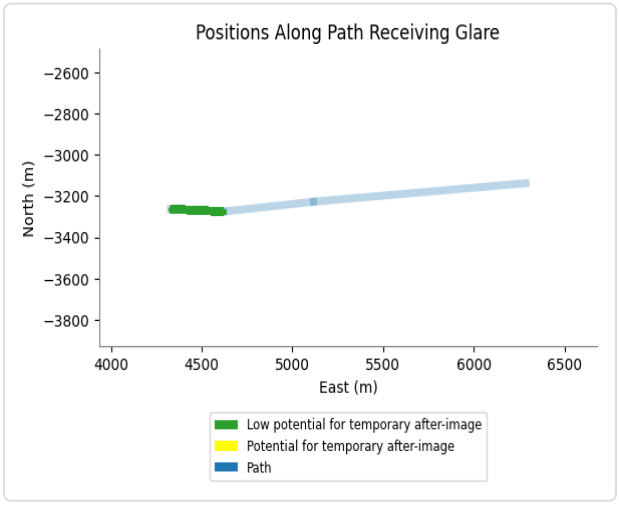
Yellow glare: none

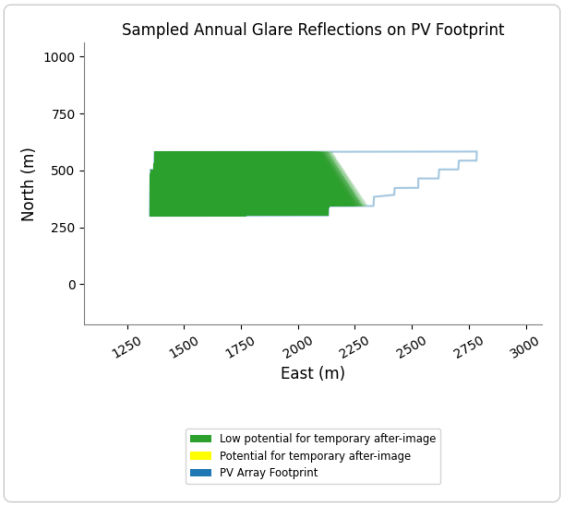
Green glare: 742 min.







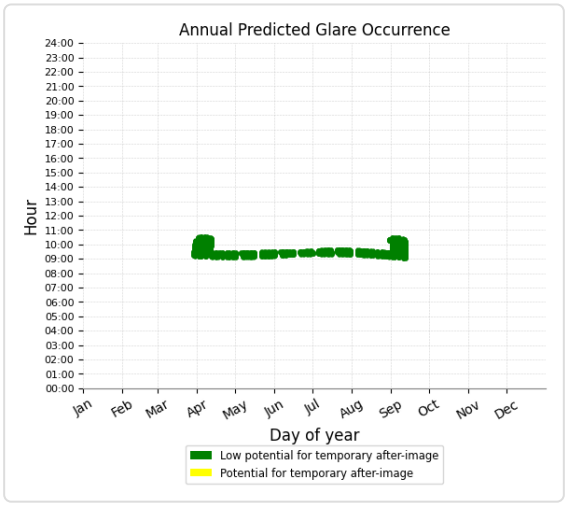


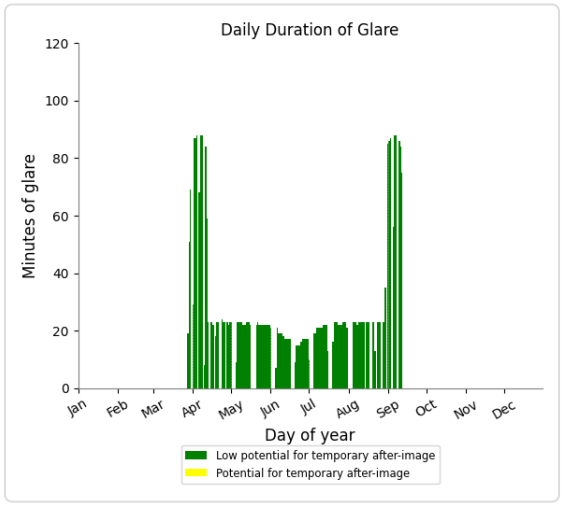


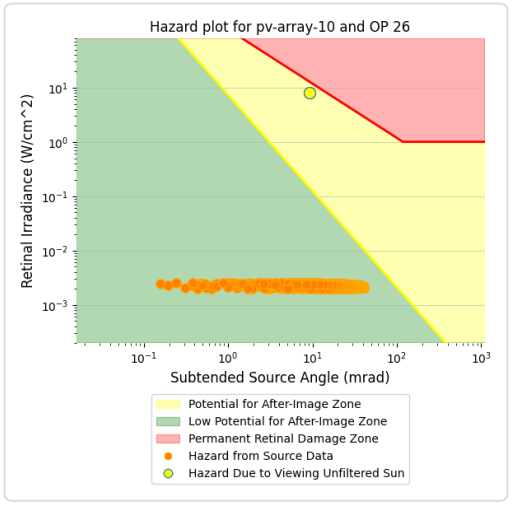
PV array 10 and OP 26

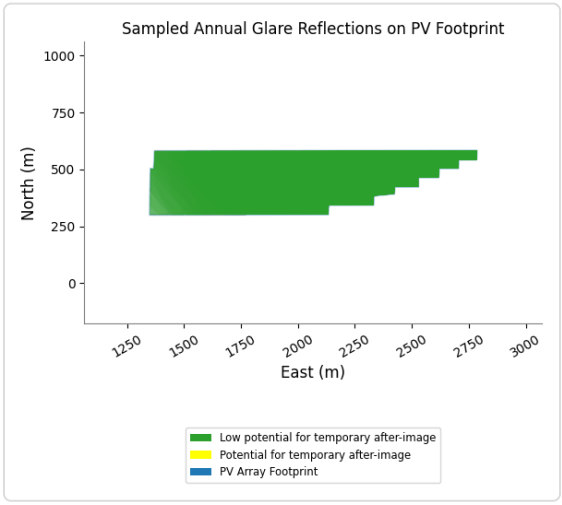
Yellow glare: none

Green glare: 3,776 min.





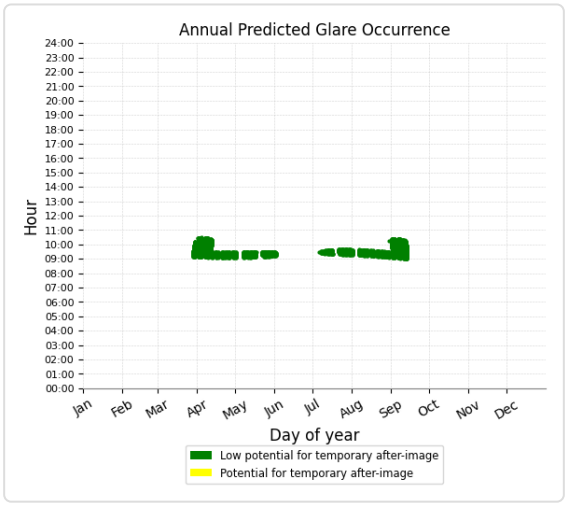


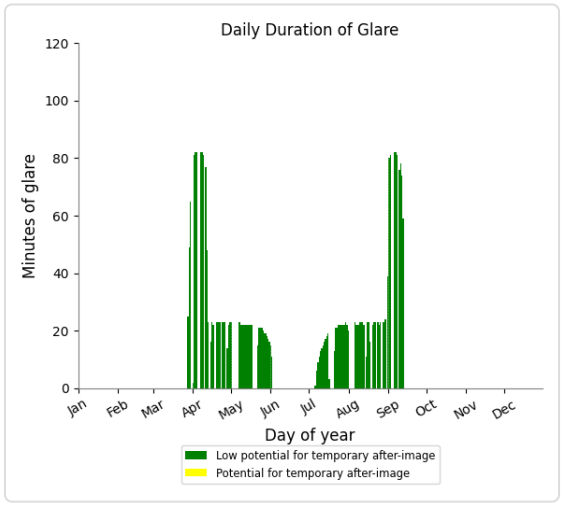


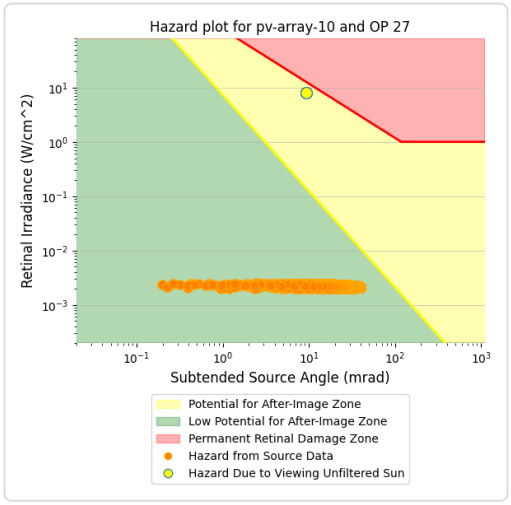
PV array 10 and OP 27

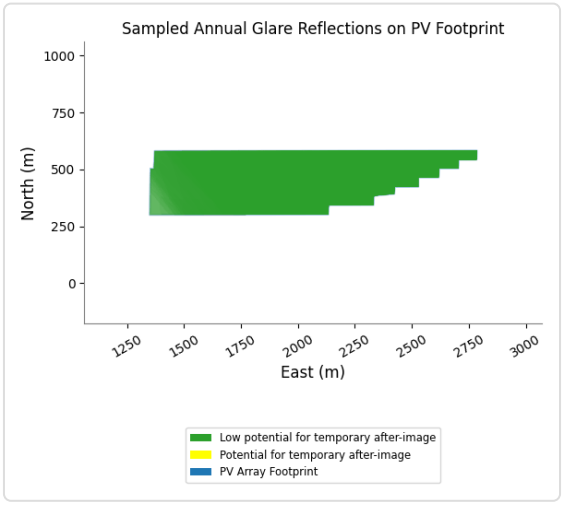
Yellow glare: none

Green glare: 3,102 min.





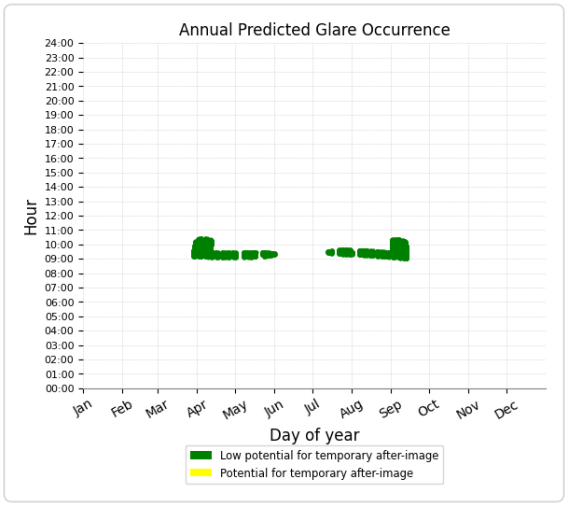


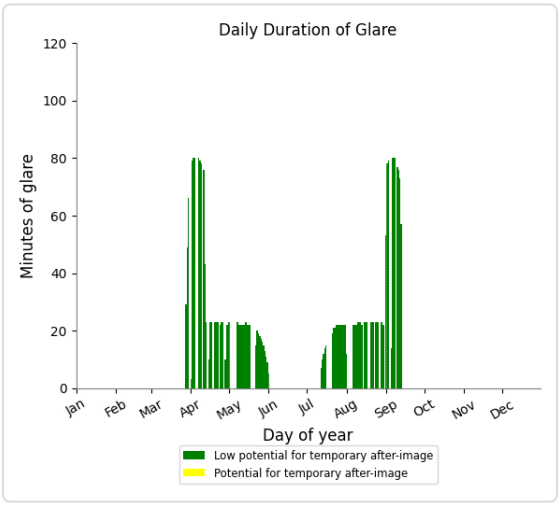


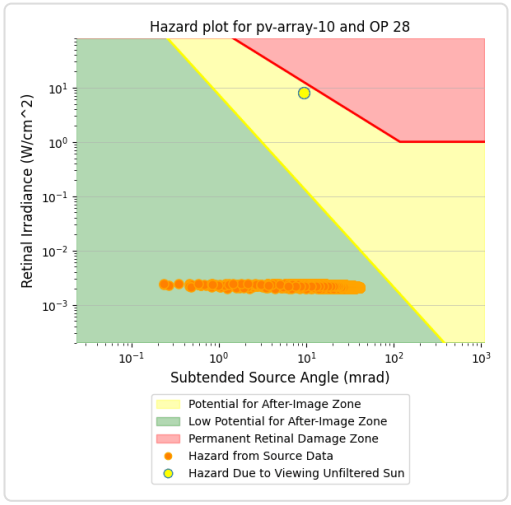
PV array 10 and OP 28

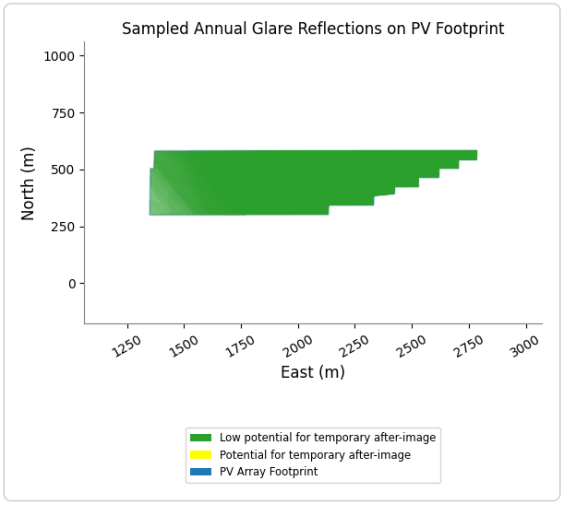
Yellow glare: none

Green glare: 2,946 min.





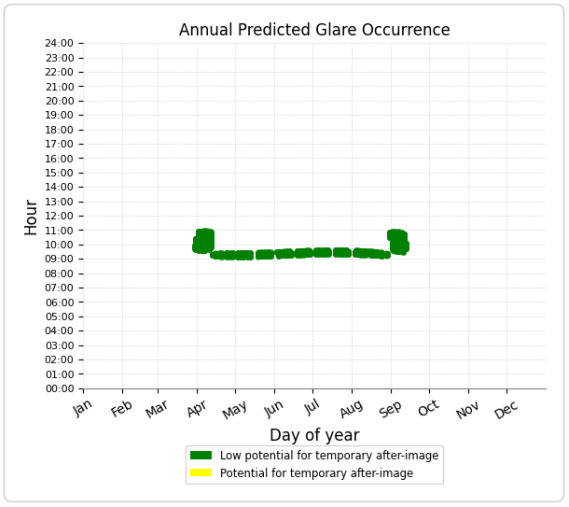


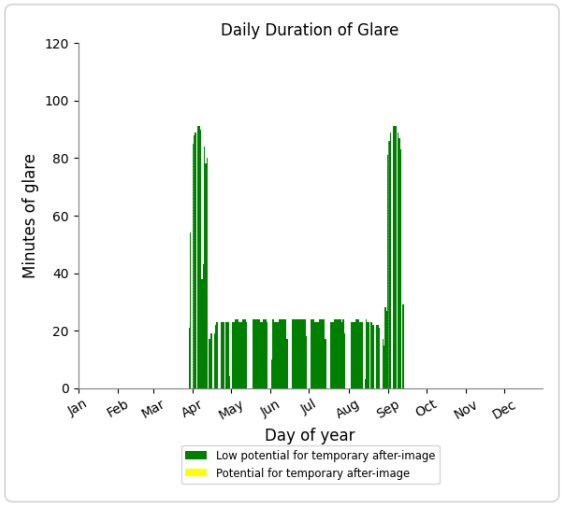


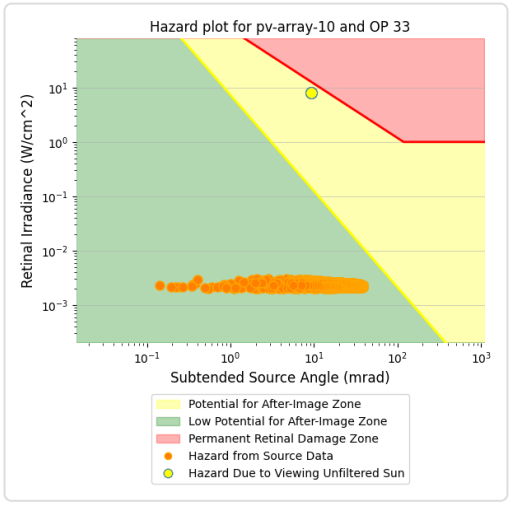
PV array 10 and OP 33

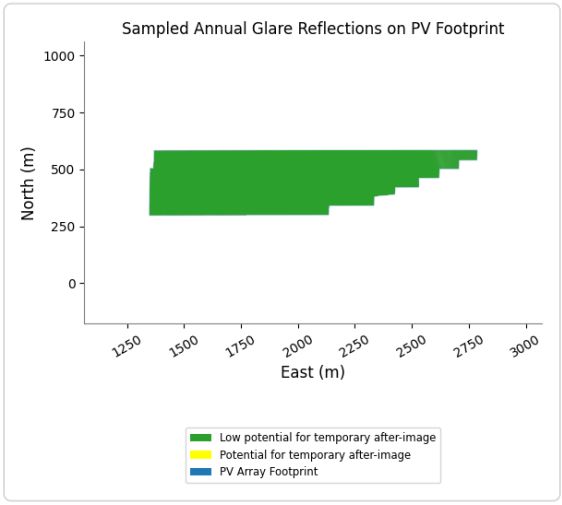
Yellow glare: none

Green glare: 4,228 min.









PV array 10 and OP 1

No glare found

PV array 10 and OP 2

No glare found

PV array 10 and OP 3

No glare found

PV array 10 and OP 4

No glare found

PV array 10 and OP 5

No glare found

PV array 10 and OP 6

No glare found

PV array 10 and OP 7

No glare found

PV array 10 and OP 8

No glare found

PV array 10 and OP 9

No glare found

PV array 10 and OP 10

No glare found

PV array 10 and OP 11

No glare found

PV array 10 and OP 12

No glare found

PV array 10 and OP 13

No glare found

PV array 10 and OP 14

No glare found

PV array 10 and OP 15

No glare found

PV array 10 and OP 16

No glare found

PV array 10 and OP 17

No glare found

PV array 10 and OP 18

No glare found

PV array 10 and OP 19

No glare found

PV array 10 and OP 20

No glare found

PV array 10 and OP 21

No glare found

PV array 10 and OP 22

No glare found

PV array 10 and OP 23

No glare found

PV array 10 and OP 24

No glare found

PV array 10 and OP 25

No glare found

PV array 10 and OP 29

No glare found

PV array 10 and OP 30

No glare found

PV array 10 and OP 31

No glare found

PV array 10 and OP 32

No glare found

PV: PV array 15 potential temporary after-image

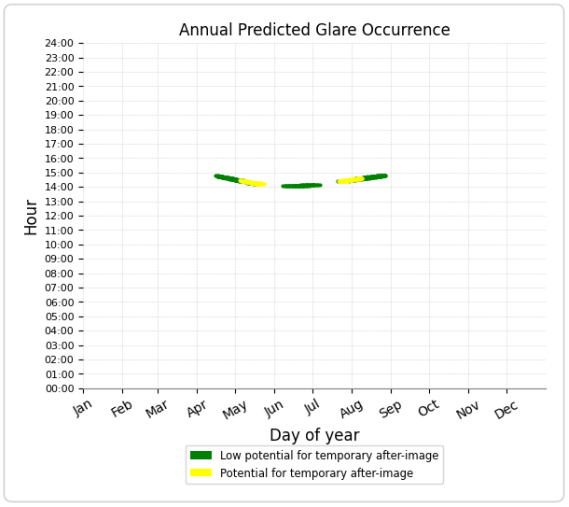
Receptor results ordered by category of glare

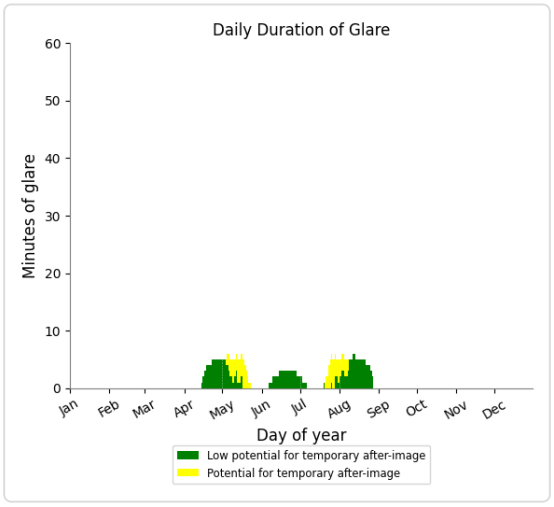
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Main Camp Road	287	4.8	127	2.1
Avenue Road	0	0.0	0	0.0
OP 21	297	5.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

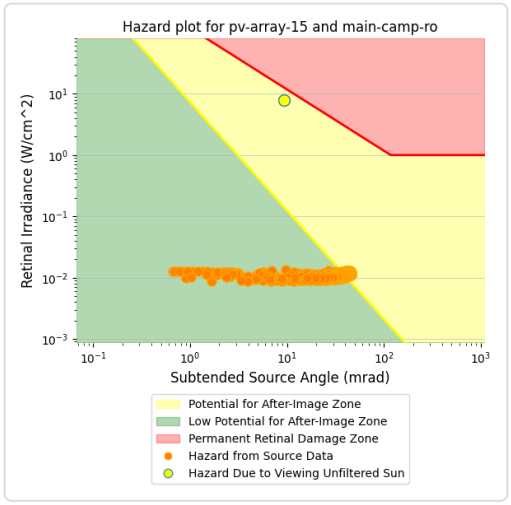
PV array 15 and Route: Main Camp Road

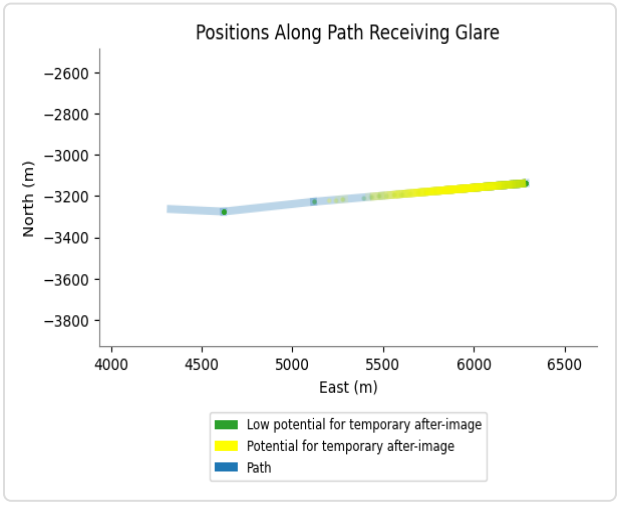
Yellow glare: 127 min.

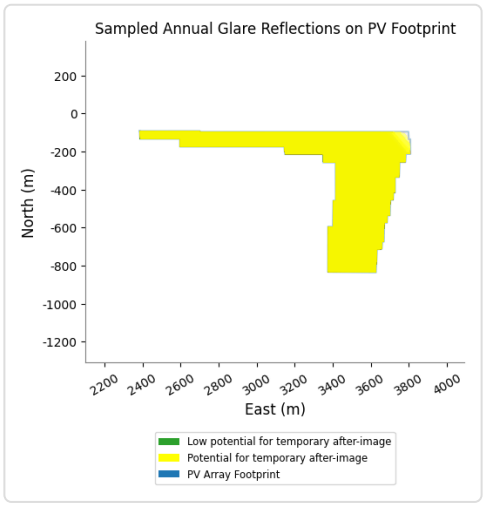
Green glare: 287 min.











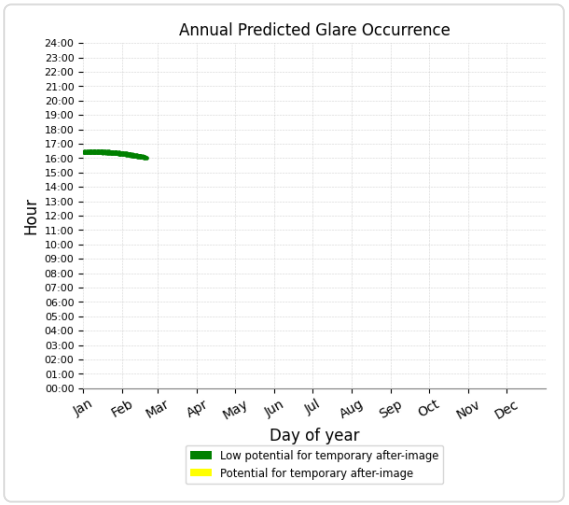
PV array 15 and Route: Avenue Road

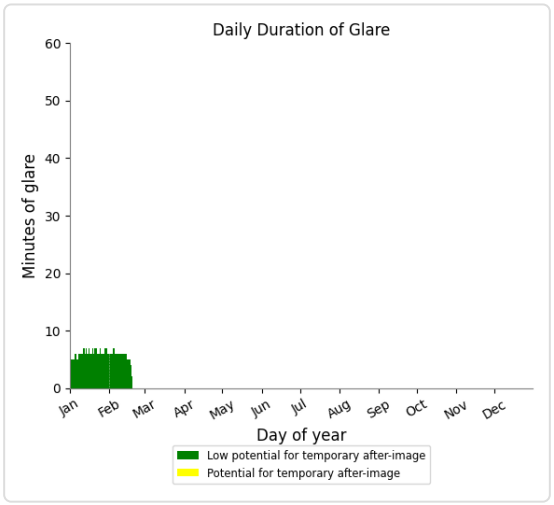
No glare found

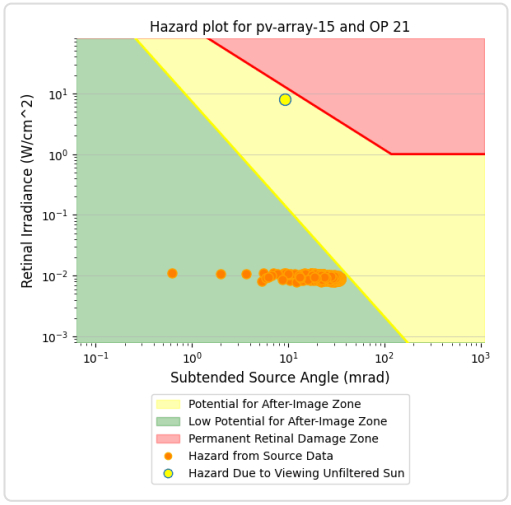
PV array 15 and OP 21

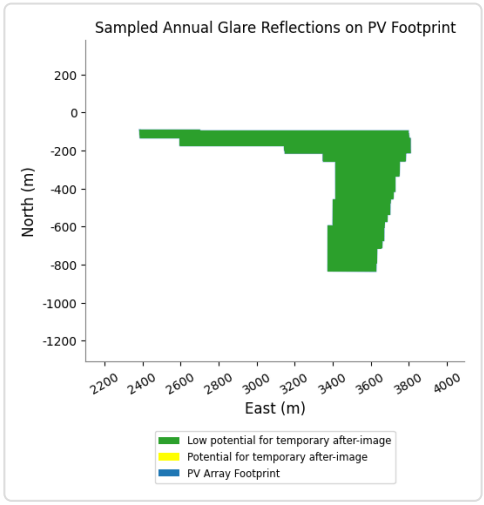
Yellow glare: none

Green glare: 297 min.









PV array 15 and OP 1

No glare found

PV array 15 and OP 2

No glare found

PV array 15 and OP 3

No glare found

PV array 15 and OP 4

No glare found

PV array 15 and OP 5

No glare found

PV array 15 and OP 6

No glare found

PV array 15 and OP 7

No glare found

PV array 15 and OP 8

No glare found

PV array 15 and OP 9

No glare found

PV array 15 and OP 10

No glare found

PV array 15 and OP 11

No glare found

PV array 15 and OP 12

No glare found

PV array 15 and OP 13

No glare found

PV array 15 and OP 14

No glare found

PV array 15 and OP 15

No glare found

PV array 15 and OP 16

No glare found

PV array 15 and OP 17

No glare found

PV array 15 and OP 18

No glare found

PV array 15 and OP 19

No glare found

PV array 15 and OP 20

No glare found

PV array 15 and OP 22

No glare found

PV array 15 and OP 23

No glare found

PV array 15 and OP 24

No glare found

PV array 15 and OP 25

No glare found

PV array 15 and OP 26

No glare found

PV array 15 and OP 27

No glare found

PV array 15 and OP 28

No glare found

PV array 15 and OP 29

No glare found

PV array 15 and OP 30

No glare found

PV array 15 and OP 31

No glare found

PV array 15 and OP 32

No glare found

PV array 15 and OP 33

No glare found

PV: PV array 16 no glare found

Receptor results ordered by category of glare

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

PV array 16 and Route: Avenue Road

No glare found

PV array 16 and Route: Main Camp Road

No glare found

PV array 16 and OP 1

No glare found

PV array 16 and OP 2

No glare found

PV array 16 and OP 3

No glare found

PV array 16 and OP 4

No glare found

PV array 16 and OP 5

No glare found

PV array 16 and OP 6

No glare found

PV array 16 and OP 7

No glare found

PV array 16 and OP 8

No glare found

PV array 16 and OP 9

No glare found

PV array 16 and OP 10

No glare found

PV array 16 and OP 11

No glare found

PV array 16 and OP 12

No glare found

PV array 16 and OP 13

No glare found

PV array 16 and OP 14

No glare found

PV array 16 and OP 15

No glare found

PV array 16 and OP 16

No glare found

PV array 16 and OP 17

No glare found

PV array 16 and OP 18

No glare found

PV array 16 and OP 19

No glare found

PV array 16 and OP 20

No glare found

PV array 16 and OP 21

No glare found

PV array 16 and OP 22

No glare found

PV array 16 and OP 23

No glare found

PV array 16 and OP 24

No glare found

PV array 16 and OP 25

No glare found

PV array 16 and OP 26

No glare found

PV array 16 and OP 27

No glare found

PV array 16 and OP 28

No glare found

PV array 16 and OP 29

No glare found

PV array 16 and OP 30

No glare found

PV array 16 and OP 31

No glare found

PV array 16 and OP 32

No glare found

PV array 16 and OP 33

No glare found

PV: PV array 17 no glare found

Receptor results ordered by category of glare

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

PV array 17 and Route: Avenue Road

No glare found

PV array 17 and Route: Main Camp Road

No glare found

PV array 17 and OP 1

No glare found

PV array 17 and OP 2

No glare found

PV array 17 and OP 3

No glare found

PV array 17 and OP 4

No glare found

PV array 17 and OP 5

No glare found

PV array 17 and OP 6

No glare found

PV array 17 and OP 7

No glare found

PV array 17 and OP 8

No glare found

PV array 17 and OP 9

No glare found

PV array 17 and OP 10

No glare found

PV array 17 and OP 11

No glare found

PV array 17 and OP 12

No glare found

PV array 17 and OP 13

No glare found

PV array 17 and OP 14

No glare found

PV array 17 and OP 15

No glare found

PV array 17 and OP 16

No glare found

PV array 17 and OP 17

No glare found

PV array 17 and OP 18

No glare found

PV array 17 and OP 19

No glare found

PV array 17 and OP 20

No glare found

PV array 17 and OP 21

No glare found

PV array 17 and OP 22

No glare found

PV array 17 and OP 23

No glare found

PV array 17 and OP 24

No glare found

PV array 17 and OP 25

No glare found

PV array 17 and OP 26

No glare found

PV array 17 and OP 27

No glare found

PV array 17 and OP 28

No glare found

PV array 17 and OP 29

No glare found

PV array 17 and OP 30

No glare found

PV array 17 and OP 31

No glare found

PV array 17 and OP 32

No glare found

PV array 17 and OP 33

No glare found

PV: PV array 18 no glare found

Receptor results ordered by category of glare

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

PV array 18 and Route: Avenue Road

No glare found

PV array 18 and Route: Main Camp Road

No glare found

PV array 18 and OP 1

No glare found

PV array 18 and OP 2

No glare found

PV array 18 and OP 3

No glare found

PV array 18 and OP 4

No glare found

PV array 18 and OP 5

No glare found

PV array 18 and OP 6

No glare found

PV array 18 and OP 7

No glare found

PV array 18 and OP 8

No glare found

PV array 18 and OP 9

No glare found

PV array 18 and OP 10

No glare found

PV array 18 and OP 11

No glare found

PV array 18 and OP 12

No glare found

PV array 18 and OP 13

No glare found

PV array 18 and OP 14

No glare found

PV array 18 and OP 15

No glare found

PV array 18 and OP 16

No glare found

PV array 18 and OP 17

No glare found

PV array 18 and OP 18

No glare found

PV array 18 and OP 19

No glare found

PV array 18 and OP 20

No glare found

PV array 18 and OP 21

No glare found

PV array 18 and OP 22

No glare found

PV array 18 and OP 23

No glare found

PV array 18 and OP 24

No glare found

PV array 18 and OP 25

No glare found

PV array 18 and OP 26

No glare found

PV array 18 and OP 27

No glare found

PV array 18 and OP 28

No glare found

PV array 18 and OP 29

No glare found

PV array 18 and OP 30

No glare found

PV array 18 and OP 31

No glare found

PV array 18 and OP 32

No glare found

PV array 18 and OP 33

No glare found

PV: PV array 19 no glare found

Receptor results ordered by category of glare

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

PV array 19 and Route: Avenue Road

No glare found

PV array 19 and Route: Main Camp Road

No glare found

PV array 19 and OP 1

No glare found

PV array 19 and OP 2

No glare found

PV array 19 and OP 3

No glare found

PV array 19 and OP 4

No glare found

PV array 19 and OP 5

No glare found

PV array 19 and OP 6

No glare found

PV array 19 and OP 7

No glare found

PV array 19 and OP 8

No glare found

PV array 19 and OP 9

No glare found

PV array 19 and OP 10

No glare found

PV array 19 and OP 11

No glare found

PV array 19 and OP 12

No glare found

PV array 19 and OP 13

No glare found

PV array 19 and OP 14

No glare found

PV array 19 and OP 15

No glare found

PV array 19 and OP 16

No glare found

PV array 19 and OP 17

No glare found

PV array 19 and OP 18

No glare found

PV array 19 and OP 19

No glare found

PV array 19 and OP 20

No glare found

PV array 19 and OP 21

No glare found

PV array 19 and OP 22

No glare found

PV array 19 and OP 23

No glare found

PV array 19 and OP 24

No glare found

PV array 19 and OP 25

No glare found

PV array 19 and OP 26

No glare found

PV array 19 and OP 27

No glare found

PV array 19 and OP 28

No glare found

PV array 19 and OP 29

No glare found

PV array 19 and OP 30

No glare found

PV array 19 and OP 31

No glare found

PV array 19 and OP 32

No glare found

PV array 19 and OP 33

No glare found

PV: PV array 2 no glare found

Receptor results ordered by category of glare

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

PV array 2 and Route: Avenue Road

No glare found

PV array 2 and Route: Main Camp Road

No glare found

PV array 2 and OP 1

No glare found

PV array 2 and OP 2

No glare found

PV array 2 and OP 3

No glare found

PV array 2 and OP 4

No glare found

PV array 2 and OP 5

No glare found

PV array 2 and OP 6

No glare found

PV array 2 and OP 7

No glare found

PV array 2 and OP 8

No glare found

PV array 2 and OP 9

No glare found

PV array 2 and OP 10

No glare found

PV array 2 and OP 11

No glare found

PV array 2 and OP 12

No glare found

PV array 2 and OP 13

No glare found

PV array 2 and OP 14

No glare found

PV array 2 and OP 15

No glare found

PV array 2 and OP 16

No glare found

PV array 2 and OP 17

No glare found

PV array 2 and OP 18

No glare found

PV array 2 and OP 19

No glare found

PV array 2 and OP 20

No glare found

PV array 2 and OP 21

No glare found

PV array 2 and OP 22

No glare found

PV array 2 and OP 23

No glare found

PV array 2 and OP 24

No glare found

PV array 2 and OP 25

No glare found

PV array 2 and OP 26

No glare found

PV array 2 and OP 27

No glare found

PV array 2 and OP 28

No glare found

PV array 2 and OP 29

No glare found

PV array 2 and OP 30

No glare found

PV array 2 and OP 31

No glare found

PV array 2 and OP 32

No glare found

PV array 2 and OP 33

No glare found

PV: PV array 20 no glare found

Receptor results ordered by category of glare

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

PV array 20 and Route: Avenue Road

No glare found

PV array 20 and Route: Main Camp Road

No glare found

PV array 20 and OP 1

No glare found

PV array 20 and OP 2

No glare found

PV array 20 and OP 3

No glare found

PV array 20 and OP 4

No glare found

PV array 20 and OP 5

No glare found

PV array 20 and OP 6

No glare found

PV array 20 and OP 7

No glare found

PV array 20 and OP 8

No glare found

PV array 20 and OP 9

No glare found

PV array 20 and OP 10

No glare found

PV array 20 and OP 11

No glare found

PV array 20 and OP 12

No glare found

PV array 20 and OP 13

No glare found

PV array 20 and OP 14

No glare found

PV array 20 and OP 15

No glare found

PV array 20 and OP 16

No glare found

PV array 20 and OP 17

No glare found

PV array 20 and OP 18

No glare found

PV array 20 and OP 19

No glare found

PV array 20 and OP 20

No glare found

PV array 20 and OP 21

No glare found

PV array 20 and OP 22

No glare found

PV array 20 and OP 23

No glare found

PV array 20 and OP 24

No glare found

PV array 20 and OP 25

No glare found

PV array 20 and OP 26

No glare found

PV array 20 and OP 27

No glare found

PV array 20 and OP 28

No glare found

PV array 20 and OP 29

No glare found

PV array 20 and OP 30

No glare found

PV array 20 and OP 31

No glare found

PV array 20 and OP 32

No glare found

PV array 20 and OP 33

No glare found

PV: PV array 21 no glare found

Receptor results ordered by category of glare

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

PV array 21 and Route: Avenue Road

No glare found

PV array 21 and Route: Main Camp Road

No glare found

PV array 21 and OP 1

No glare found

PV array 21 and OP 2

No glare found

PV array 21 and OP 3

No glare found

PV array 21 and OP 4

No glare found

PV array 21 and OP 5

No glare found

PV array 21 and OP 6

No glare found

PV array 21 and OP 7

No glare found

PV array 21 and OP 8

No glare found

PV array 21 and OP 9

No glare found

PV array 21 and OP 10

No glare found

PV array 21 and OP 11

No glare found

PV array 21 and OP 12

No glare found

PV array 21 and OP 13

No glare found

PV array 21 and OP 14

No glare found

PV array 21 and OP 15

No glare found

PV array 21 and OP 16

No glare found

PV array 21 and OP 17

No glare found

PV array 21 and OP 18

No glare found

PV array 21 and OP 19

No glare found

PV array 21 and OP 20

No glare found

PV array 21 and OP 21

No glare found

PV array 21 and OP 22

No glare found

PV array 21 and OP 23

No glare found

PV array 21 and OP 24

No glare found

PV array 21 and OP 25

No glare found

PV array 21 and OP 26

No glare found

PV array 21 and OP 27

No glare found

PV array 21 and OP 28

No glare found

PV array 21 and OP 29

No glare found

PV array 21 and OP 30

No glare found

PV array 21 and OP 31

No glare found

PV array 21 and OP 32

No glare found

PV array 21 and OP 33

No glare found

PV: PV array 22 no glare found

Receptor results ordered by category of glare

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

PV array 22 and Route: Avenue Road

No glare found

PV array 22 and Route: Main Camp Road

No glare found

PV array 22 and OP 1

No glare found

PV array 22 and OP 2

No glare found

PV array 22 and OP 3

No glare found

PV array 22 and OP 4

No glare found

PV array 22 and OP 5

No glare found

PV array 22 and OP 6

No glare found

PV array 22 and OP 7

No glare found

PV array 22 and OP 8

No glare found

PV array 22 and OP 9

No glare found

PV array 22 and OP 10

No glare found

PV array 22 and OP 11

No glare found

PV array 22 and OP 12

No glare found

PV array 22 and OP 13

No glare found

PV array 22 and OP 14

No glare found

PV array 22 and OP 15

No glare found

PV array 22 and OP 16

No glare found

PV array 22 and OP 17

No glare found

PV array 22 and OP 18

No glare found

PV array 22 and OP 19

No glare found

PV array 22 and OP 20

No glare found

PV array 22 and OP 21

No glare found

PV array 22 and OP 22

No glare found

PV array 22 and OP 23

No glare found

PV array 22 and OP 24

No glare found

PV array 22 and OP 25

No glare found

PV array 22 and OP 26

No glare found

PV array 22 and OP 27

No glare found

PV array 22 and OP 28

No glare found

PV array 22 and OP 29

No glare found

PV array 22 and OP 30

No glare found

PV array 22 and OP 31

No glare found

PV array 22 and OP 32

No glare found

PV array 22 and OP 33

No glare found

PV: PV array 23 no glare found

Receptor results ordered by category of glare

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

PV array 23 and Route: Avenue Road

No glare found

PV array 23 and Route: Main Camp Road

No glare found

PV array 23 and OP 1

No glare found

PV array 23 and OP 2

No glare found

PV array 23 and OP 3

No glare found

PV array 23 and OP 4

No glare found

PV array 23 and OP 5

No glare found

PV array 23 and OP 6

No glare found

PV array 23 and OP 7

No glare found

PV array 23 and OP 8

No glare found

PV array 23 and OP 9

No glare found

PV array 23 and OP 10

No glare found

PV array 23 and OP 11

No glare found

PV array 23 and OP 12

No glare found

PV array 23 and OP 13

No glare found

PV array 23 and OP 14

No glare found

PV array 23 and OP 15

No glare found

PV array 23 and OP 16

No glare found

PV array 23 and OP 17

No glare found

PV array 23 and OP 18

No glare found

PV array 23 and OP 19

No glare found

PV array 23 and OP 20

No glare found

PV array 23 and OP 21

No glare found

PV array 23 and OP 22

No glare found

PV array 23 and OP 23

No glare found

PV array 23 and OP 24

No glare found

PV array 23 and OP 25

No glare found

PV array 23 and OP 26

No glare found

PV array 23 and OP 27

No glare found

PV array 23 and OP 28

No glare found

PV array 23 and OP 29

No glare found

PV array 23 and OP 30

No glare found

PV array 23 and OP 31

No glare found

PV array 23 and OP 32

No glare found

PV array 23 and OP 33

No glare found

PV: PV array 3 no glare found

Receptor results ordered by category of glare

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

PV array 3 and Route: Avenue Road

No glare found

PV array 3 and Route: Main Camp Road

No glare found

PV array 3 and OP 1

No glare found

PV array 3 and OP 2

No glare found

PV array 3 and OP 3

No glare found

PV array 3 and OP 4

No glare found

PV array 3 and OP 5

No glare found

PV array 3 and OP 6

No glare found

PV array 3 and OP 7

No glare found

PV array 3 and OP 8

No glare found

PV array 3 and OP 9

No glare found

PV array 3 and OP 10

No glare found

PV array 3 and OP 11

No glare found

PV array 3 and OP 12

No glare found

PV array 3 and OP 13

No glare found

PV array 3 and OP 14

No glare found

PV array 3 and OP 15

No glare found

PV array 3 and OP 16

No glare found

PV array 3 and OP 17

No glare found

PV array 3 and OP 18

No glare found

PV array 3 and OP 19

No glare found

PV array 3 and OP 20

No glare found

PV array 3 and OP 21

No glare found

PV array 3 and OP 22

No glare found

PV array 3 and OP 23

No glare found

PV array 3 and OP 24

No glare found

PV array 3 and OP 25

No glare found

PV array 3 and OP 26

No glare found

PV array 3 and OP 27

No glare found

PV array 3 and OP 28

No glare found

PV array 3 and OP 29

No glare found

PV array 3 and OP 30

No glare found

PV array 3 and OP 31

No glare found

PV array 3 and OP 32

No glare found

PV array 3 and OP 33

No glare found

PV: PV array 4 no glare found

Receptor results ordered by category of glare

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

PV array 4 and Route: Avenue Road

No glare found

PV array 4 and Route: Main Camp Road

No glare found

PV array 4 and OP 1

No glare found

PV array 4 and OP 2

No glare found

PV array 4 and OP 3

No glare found

PV array 4 and OP 4

No glare found

PV array 4 and OP 5

No glare found

PV array 4 and OP 6

No glare found

PV array 4 and OP 7

No glare found

PV array 4 and OP 8

No glare found

PV array 4 and OP 9

No glare found

PV array 4 and OP 10

No glare found

PV array 4 and OP 11

No glare found

PV array 4 and OP 12

No glare found

PV array 4 and OP 13

No glare found

PV array 4 and OP 14

No glare found

PV array 4 and OP 15

No glare found

PV array 4 and OP 16

No glare found

PV array 4 and OP 17

No glare found

PV array 4 and OP 18

No glare found

PV array 4 and OP 19

No glare found

PV array 4 and OP 20

No glare found

PV array 4 and OP 21

No glare found

PV array 4 and OP 22

No glare found

PV array 4 and OP 23

No glare found

PV array 4 and OP 24

No glare found

PV array 4 and OP 25

No glare found

PV array 4 and OP 26

No glare found

PV array 4 and OP 27

No glare found

PV array 4 and OP 28

No glare found

PV array 4 and OP 29

No glare found

PV array 4 and OP 30

No glare found

PV array 4 and OP 31

No glare found

PV array 4 and OP 32

No glare found

PV array 4 and OP 33

No glare found

PV: PV array 5 no glare found

Receptor results ordered by category of glare

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

PV array 5 and Route: Avenue Road

No glare found

PV array 5 and Route: Main Camp Road

No glare found

PV array 5 and OP 1

No glare found

PV array 5 and OP 2

No glare found

PV array 5 and OP 3

No glare found

PV array 5 and OP 4

No glare found

PV array 5 and OP 5

No glare found

PV array 5 and OP 6

No glare found

PV array 5 and OP 7

No glare found

PV array 5 and OP 8

No glare found

PV array 5 and OP 9

No glare found

PV array 5 and OP 10

No glare found

PV array 5 and OP 11

No glare found

PV array 5 and OP 12

No glare found

PV array 5 and OP 13

No glare found

PV array 5 and OP 14

No glare found

PV array 5 and OP 15

No glare found

PV array 5 and OP 16

No glare found

PV array 5 and OP 17

No glare found

PV array 5 and OP 18

No glare found

PV array 5 and OP 19

No glare found

PV array 5 and OP 20

No glare found

PV array 5 and OP 21

No glare found

PV array 5 and OP 22

No glare found

PV array 5 and OP 23

No glare found

PV array 5 and OP 24

No glare found

PV array 5 and OP 25

No glare found

PV array 5 and OP 26

No glare found

PV array 5 and OP 27

No glare found

PV array 5 and OP 28

No glare found

PV array 5 and OP 29

No glare found

PV array 5 and OP 30

No glare found

PV array 5 and OP 31

No glare found

PV array 5 and OP 32

No glare found

PV array 5 and OP 33

No glare found

PV: PV array 6 no glare found

Receptor results ordered by category of glare

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

PV array 6 and Route: Avenue Road

No glare found

PV array 6 and Route: Main Camp Road

No glare found

PV array 6 and OP 1

No glare found

PV array 6 and OP 2

No glare found

PV array 6 and OP 3

No glare found

PV array 6 and OP 4

No glare found

PV array 6 and OP 5

No glare found

PV array 6 and OP 6

No glare found

PV array 6 and OP 7

No glare found

PV array 6 and OP 8

No glare found

PV array 6 and OP 9

No glare found

PV array 6 and OP 10

No glare found

PV array 6 and OP 11

No glare found

PV array 6 and OP 12

No glare found

PV array 6 and OP 13

No glare found

PV array 6 and OP 14

No glare found

PV array 6 and OP 15

No glare found

PV array 6 and OP 16

No glare found

PV array 6 and OP 17

No glare found

PV array 6 and OP 18

No glare found

PV array 6 and OP 19

No glare found

PV array 6 and OP 20

No glare found

PV array 6 and OP 21

No glare found

PV array 6 and OP 22

No glare found

PV array 6 and OP 23

No glare found

PV array 6 and OP 24

No glare found

PV array 6 and OP 25

No glare found

PV array 6 and OP 26

No glare found

PV array 6 and OP 27

No glare found

PV array 6 and OP 28

No glare found

PV array 6 and OP 29

No glare found

PV array 6 and OP 30

No glare found

PV array 6 and OP 31

No glare found

PV array 6 and OP 32

No glare found

PV array 6 and OP 33

No glare found

PV: PV array 7 no glare found

Receptor results ordered by category of glare

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

PV array 7 and Route: Avenue Road

No glare found

PV array 7 and Route: Main Camp Road

No glare found

PV array 7 and OP 1

No glare found

PV array 7 and OP 2

No glare found

PV array 7 and OP 3

No glare found

PV array 7 and OP 4

No glare found

PV array 7 and OP 5

No glare found

PV array 7 and OP 6

No glare found

PV array 7 and OP 7

No glare found

PV array 7 and OP 8

No glare found

PV array 7 and OP 9

No glare found

PV array 7 and OP 10

No glare found

PV array 7 and OP 11

No glare found

PV array 7 and OP 12

No glare found

PV array 7 and OP 13

No glare found

PV array 7 and OP 14

No glare found

PV array 7 and OP 15

No glare found

PV array 7 and OP 16

No glare found

PV array 7 and OP 17

No glare found

PV array 7 and OP 18

No glare found

PV array 7 and OP 19

No glare found

PV array 7 and OP 20

No glare found

PV array 7 and OP 21

No glare found

PV array 7 and OP 22

No glare found

PV array 7 and OP 23

No glare found

PV array 7 and OP 24

No glare found

PV array 7 and OP 25

No glare found

PV array 7 and OP 26

No glare found

PV array 7 and OP 27

No glare found

PV array 7 and OP 28

No glare found

PV array 7 and OP 29

No glare found

PV array 7 and OP 30

No glare found

PV array 7 and OP 31

No glare found

PV array 7 and OP 32

No glare found

PV array 7 and OP 33

No glare found

PV: PV array 8 potential temporary after-image

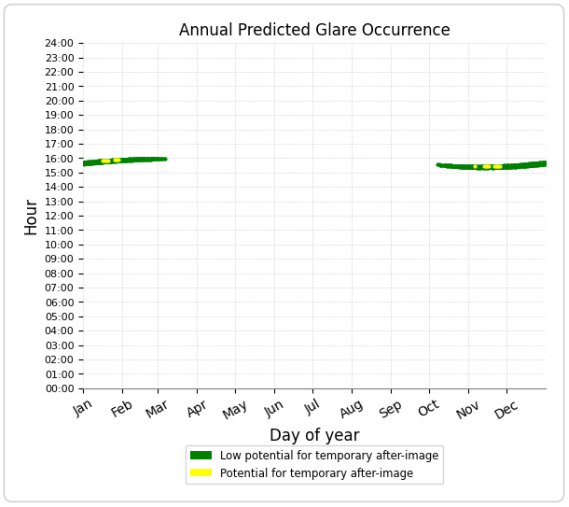
Receptor results ordered by category of glare

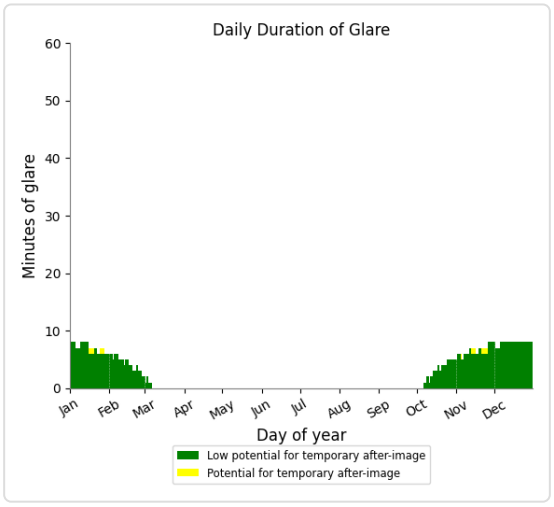
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	864	14.4	19	0.3
Main Camp Road	0	0.0	0	0.0
OP 9	261	4.3	0	0.0
OP 10	57	0.9	0	0.0
OP 11	278	4.6	0	0.0
OP 12	271	4.5	0	0.0
OP 13	284	4.7	0	0.0
OP 14	144	2.4	0	0.0
OP 15	148	2.5	0	0.0
OP 16	488	8.1	0	0.0
OP 17	123	2.0	0	0.0
OP 18	300	5.0	0	0.0
OP 19	306	5.1	0	0.0
OP 22	290	4.8	0	0.0
OP 23	280	4.7	0	0.0
OP 24	185	3.1	0	0.0
OP 25	55	0.9	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0

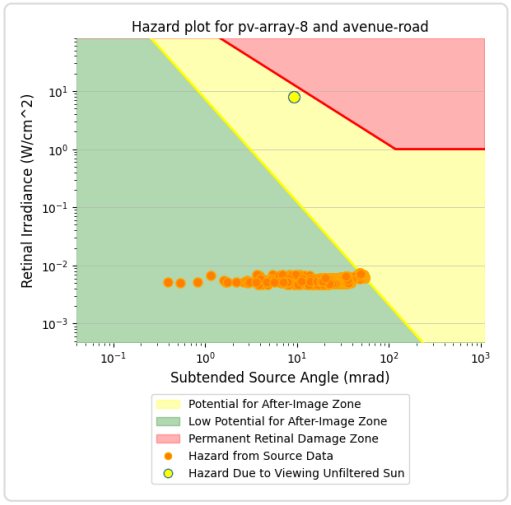
PV array 8 and Route: Avenue Road

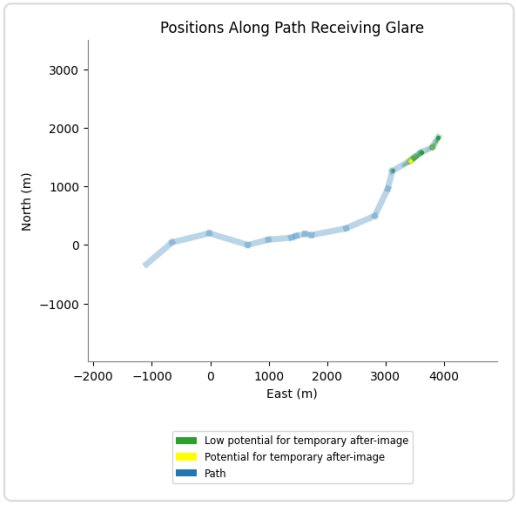
Yellow glare: 19 min.

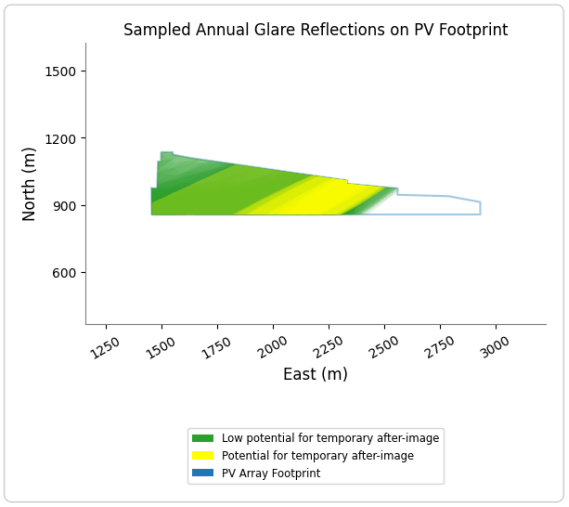
Green glare: 864 min.











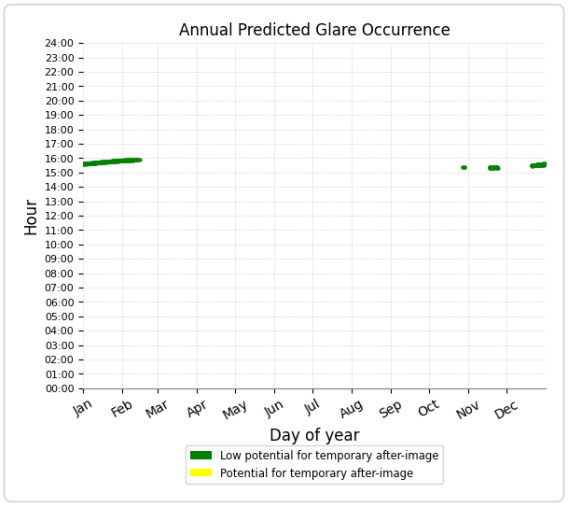
PV array 8 and Route: Main Camp Road

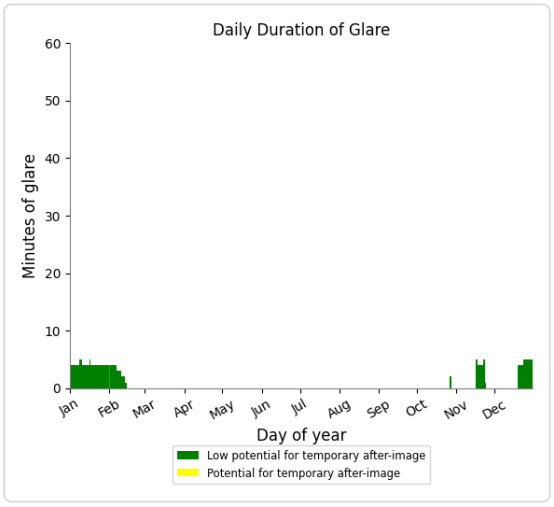
No glare found

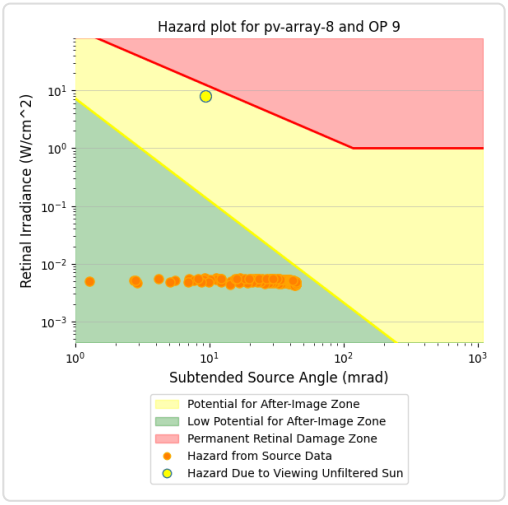
PV array 8 and OP 9

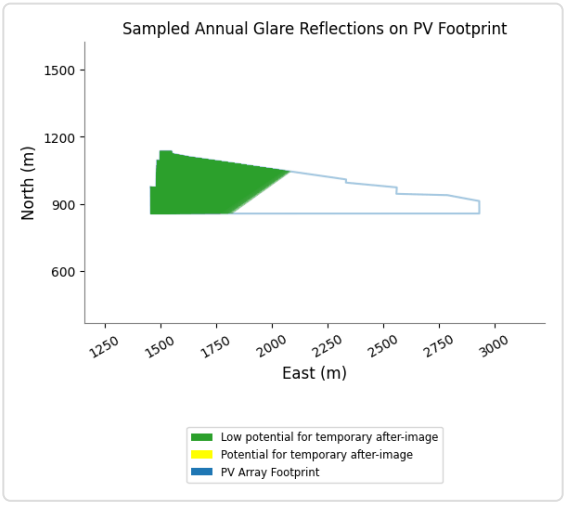
Yellow glare: none

Green glare: 261 min.





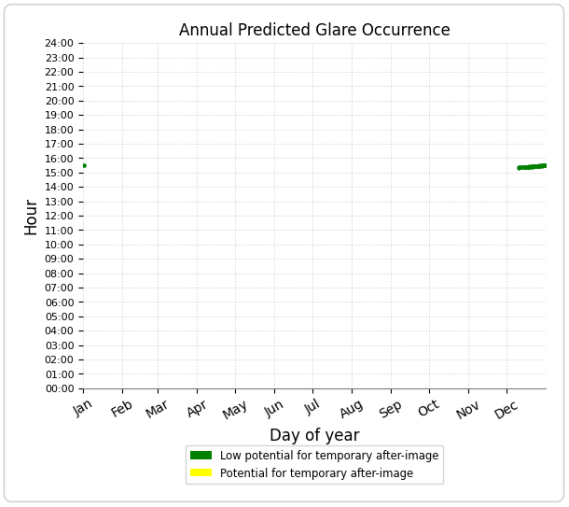


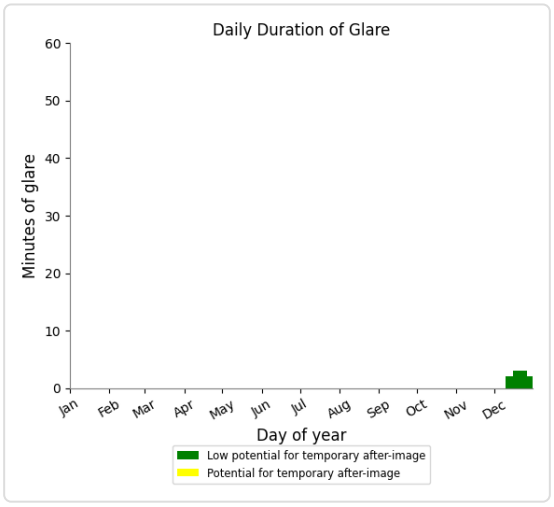


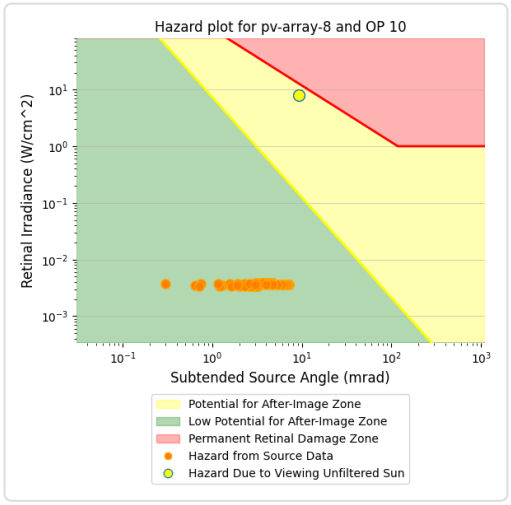
PV array 8 and OP 10

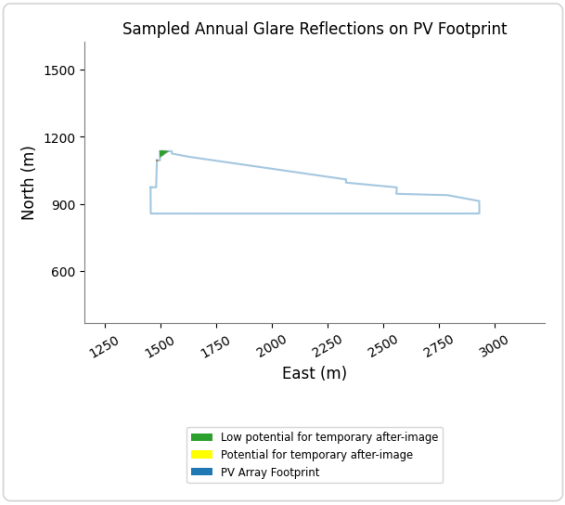
Yellow glare: none

Green glare: 57 min.





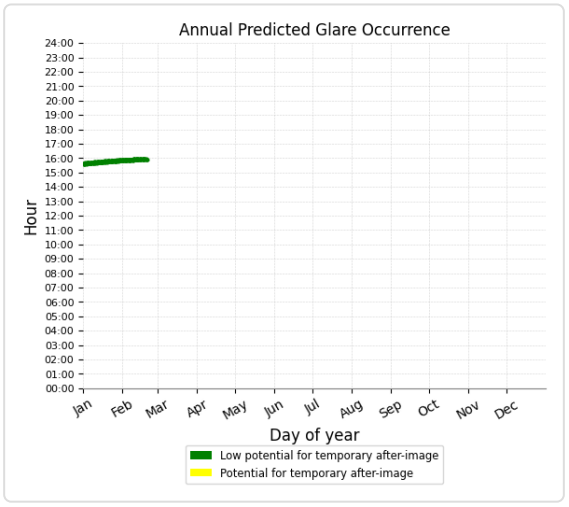


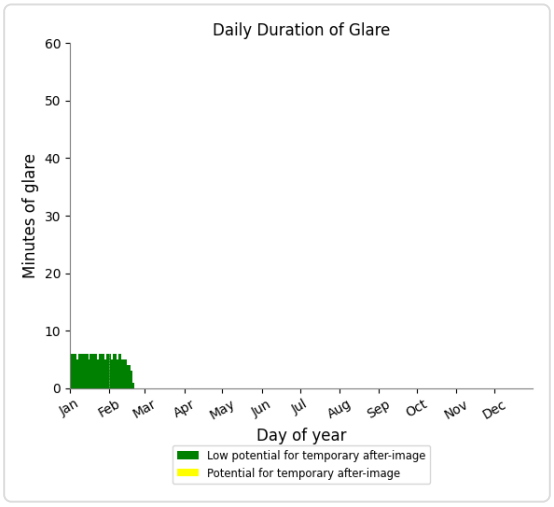


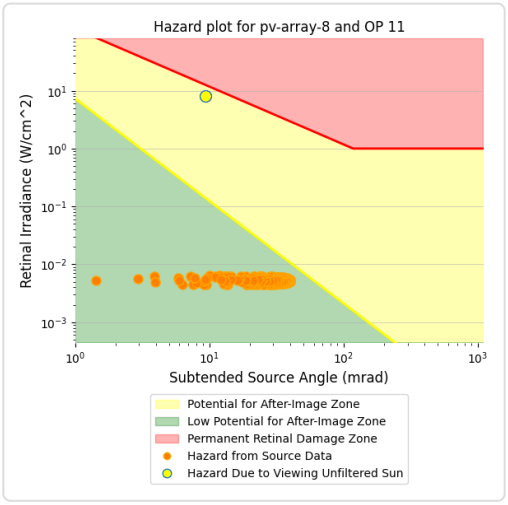
PV array 8 and OP 11

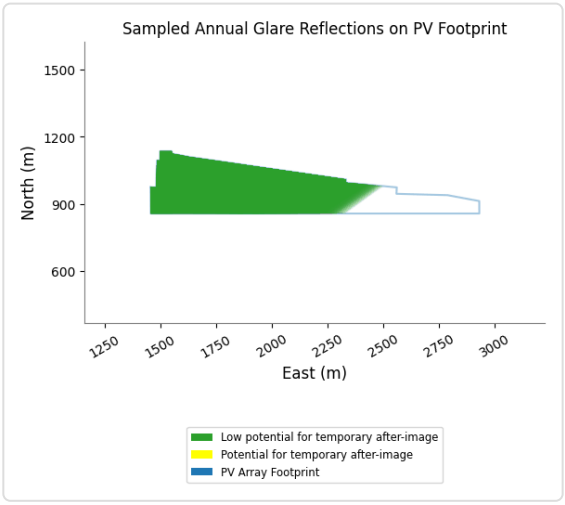
Yellow glare: none

Green glare: 278 min.





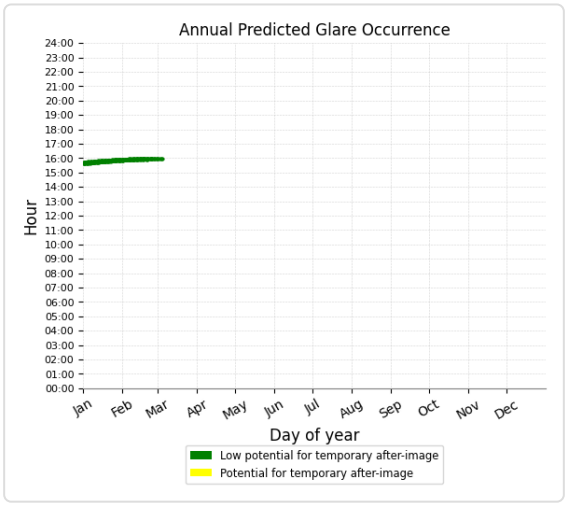


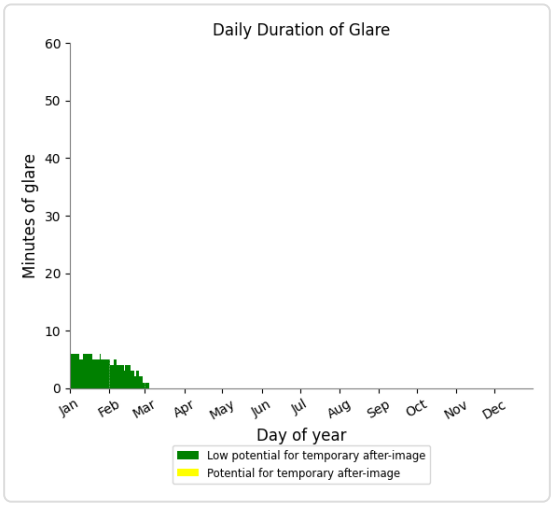


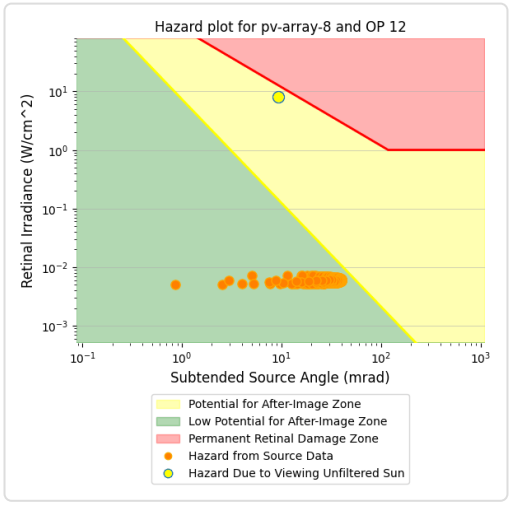
PV array 8 and OP 12

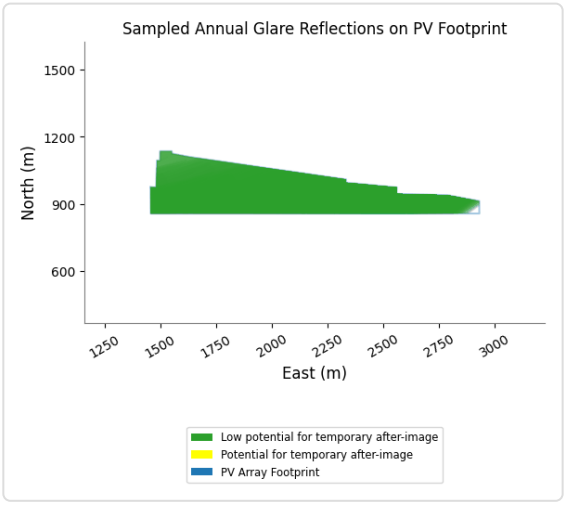
Yellow glare: none

Green glare: 271 min.





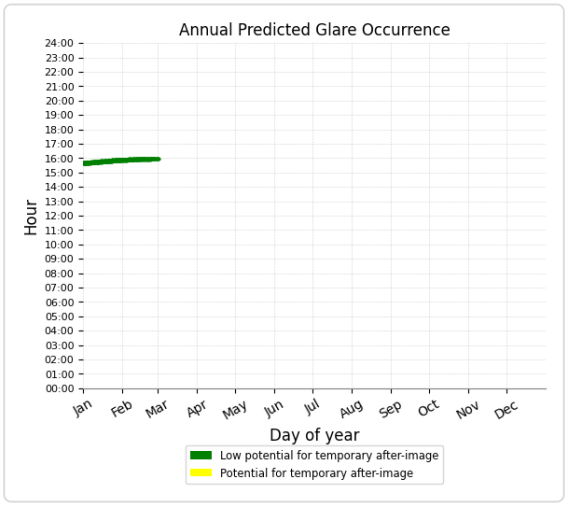


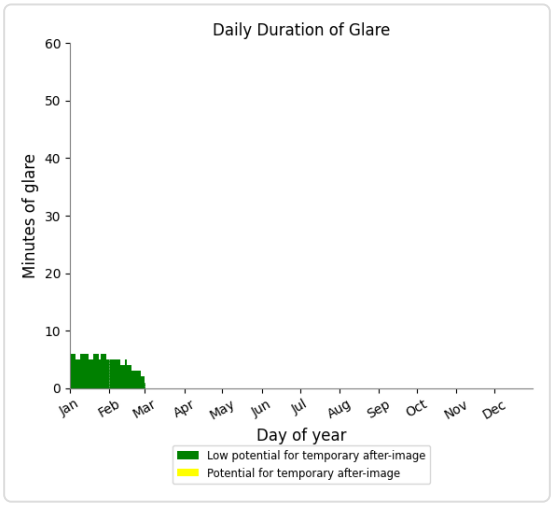


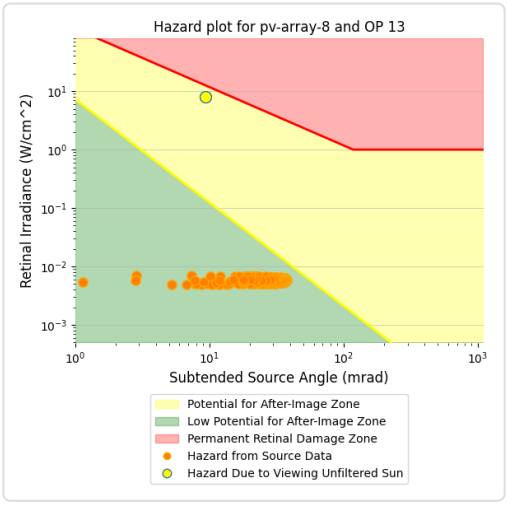
PV array 8 and OP 13

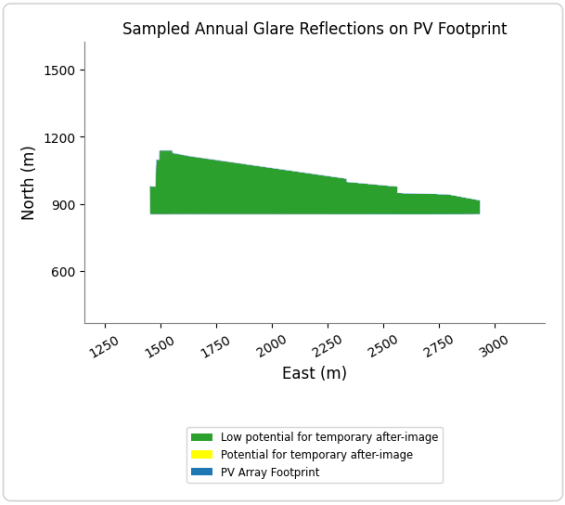
Yellow glare: none

Green glare: 284 min.





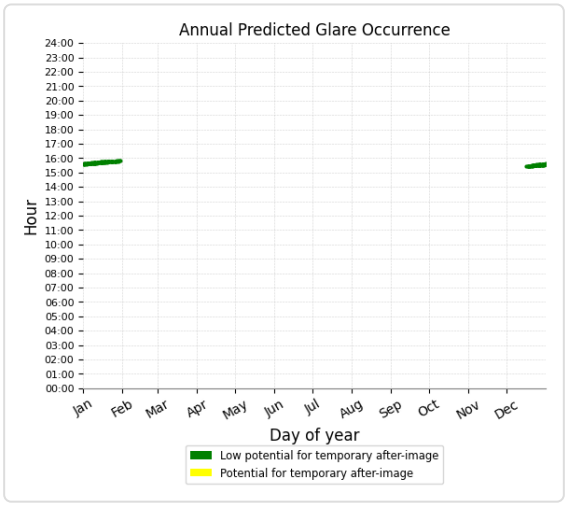


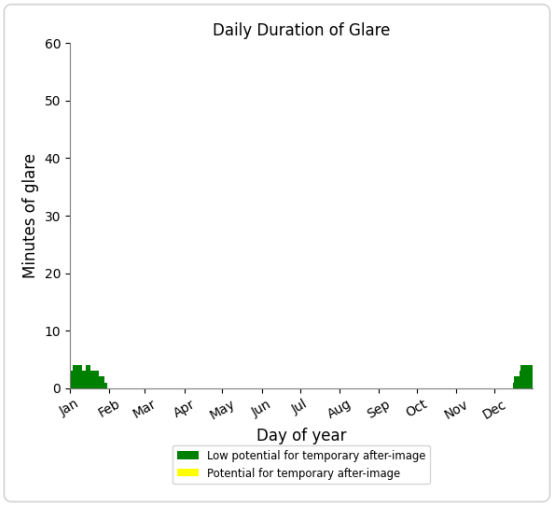


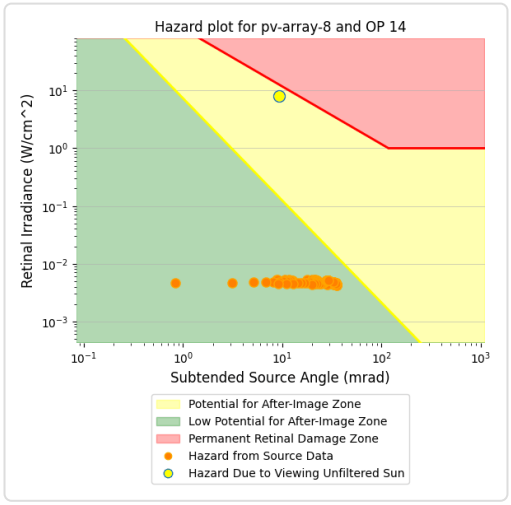
PV array 8 and OP 14

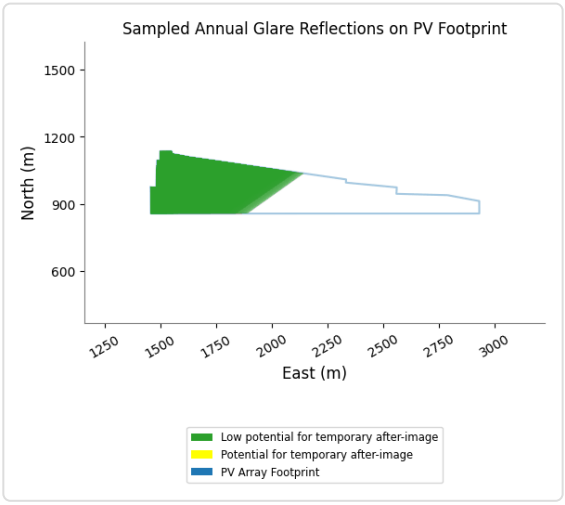
Yellow glare: none

Green glare: 144 min.





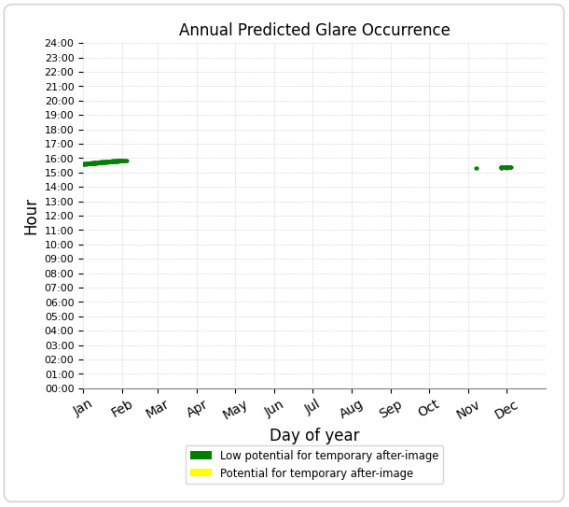


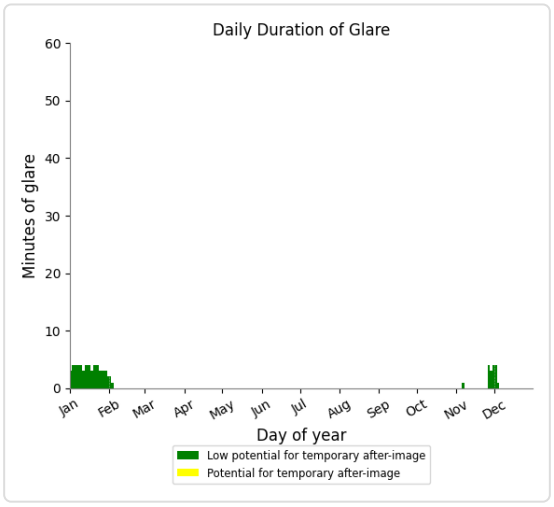


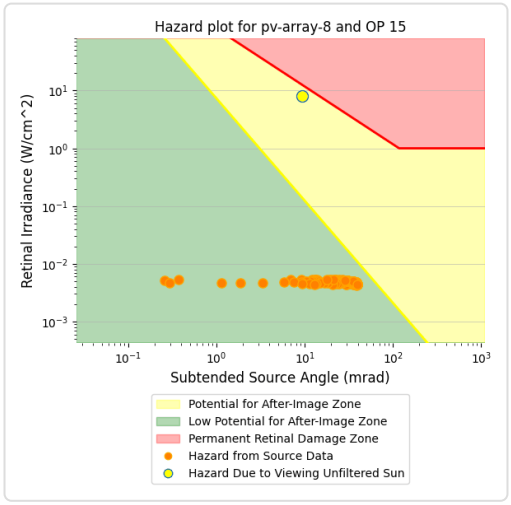
PV array 8 and OP 15

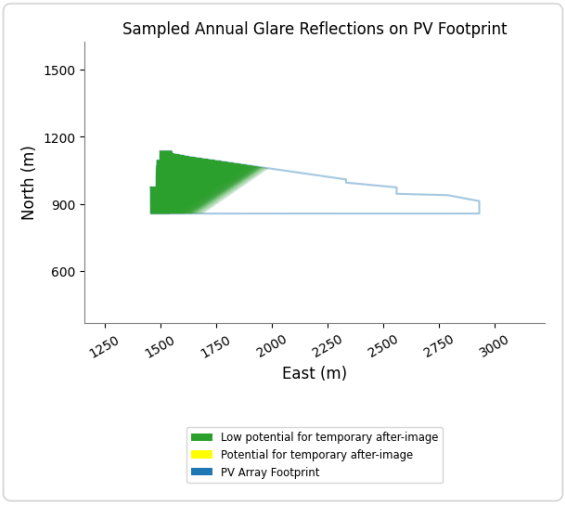
Yellow glare: none

Green glare: 148 min.





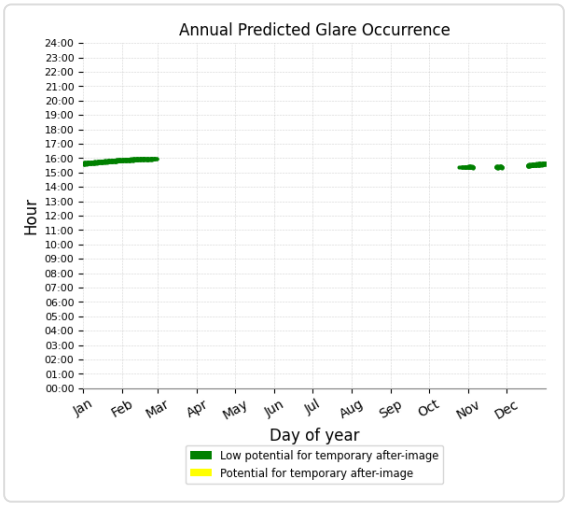


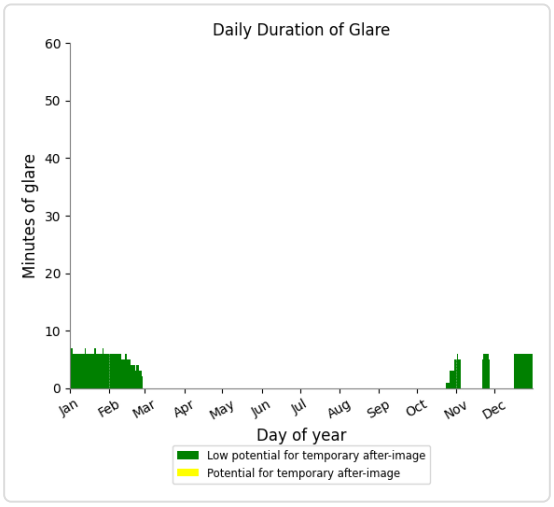


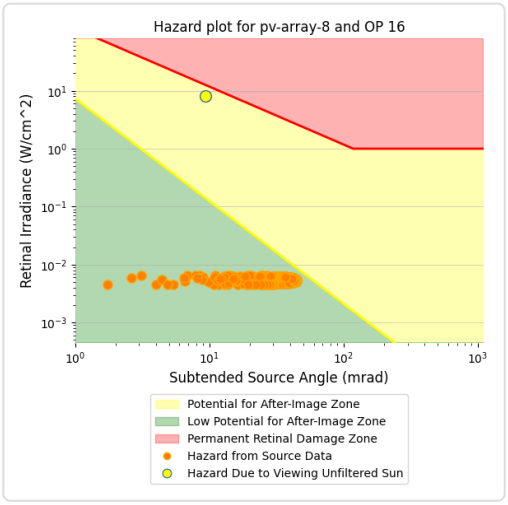
PV array 8 and OP 16

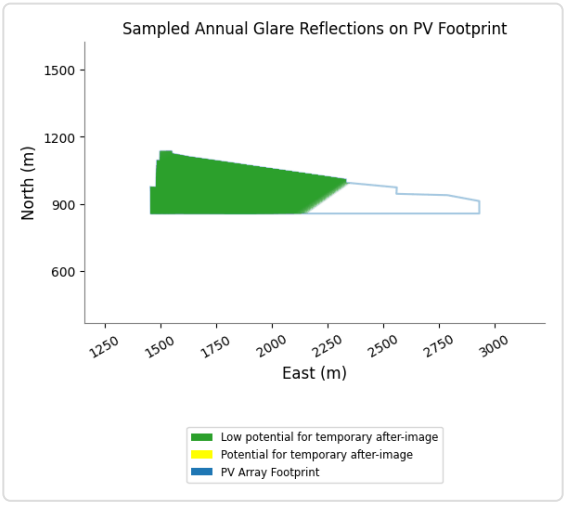
Yellow glare: none

Green glare: 488 min.





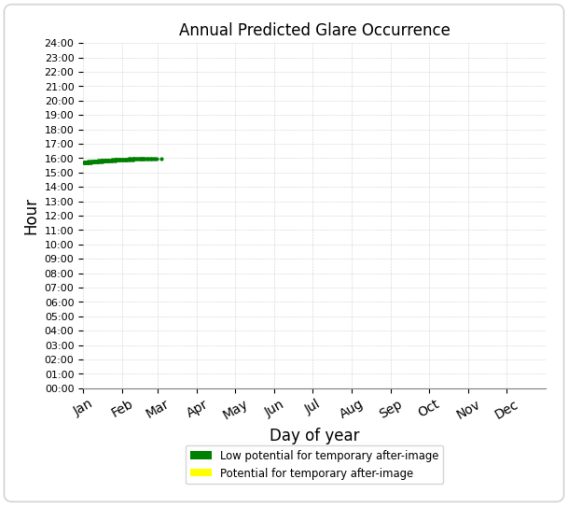


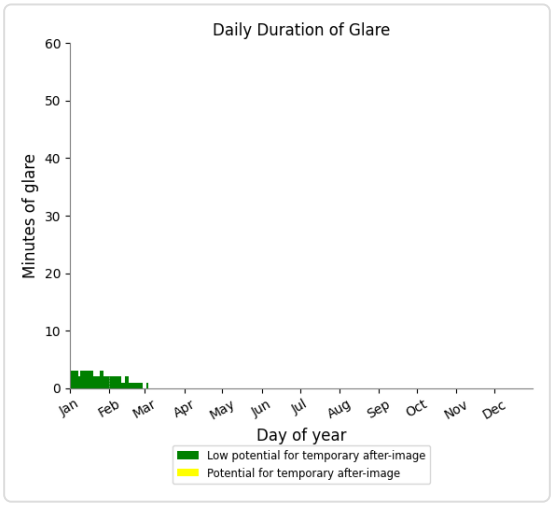


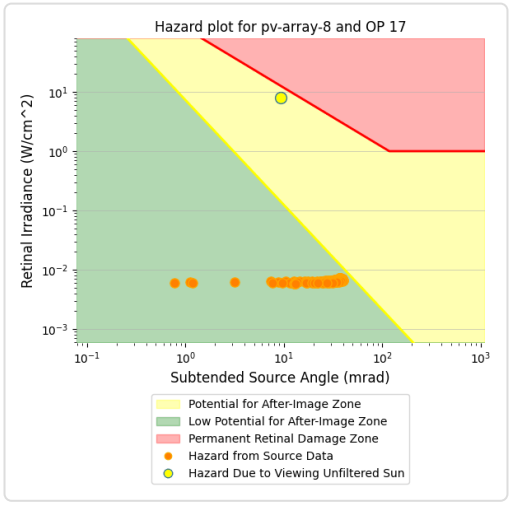
PV array 8 and OP 17

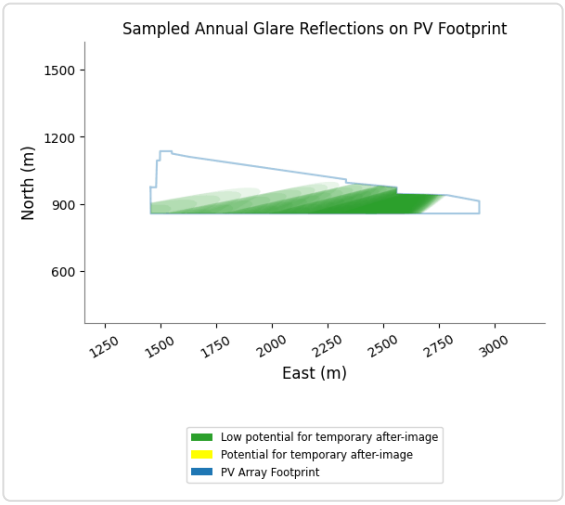
Yellow glare: none

Green glare: 123 min.





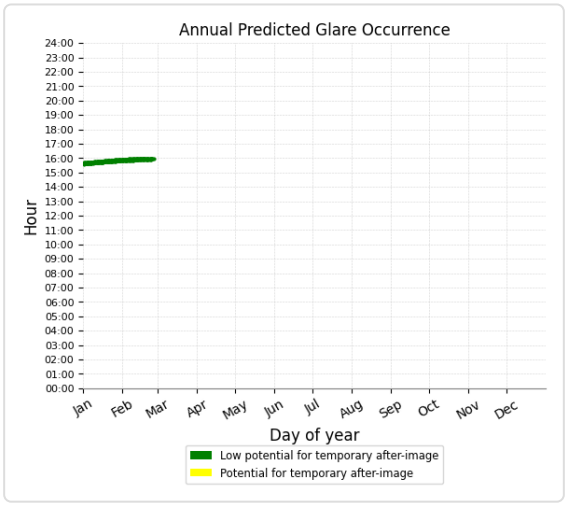


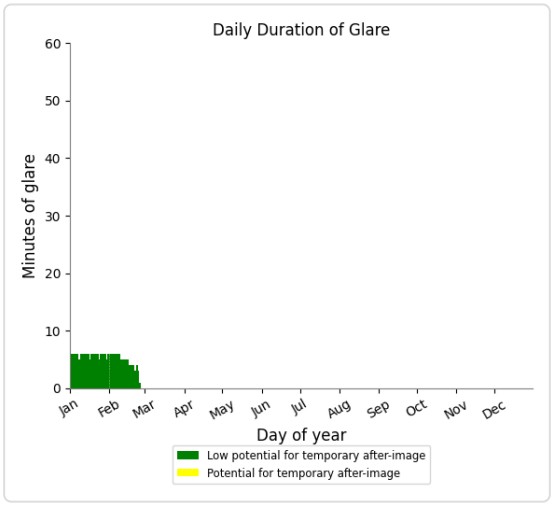


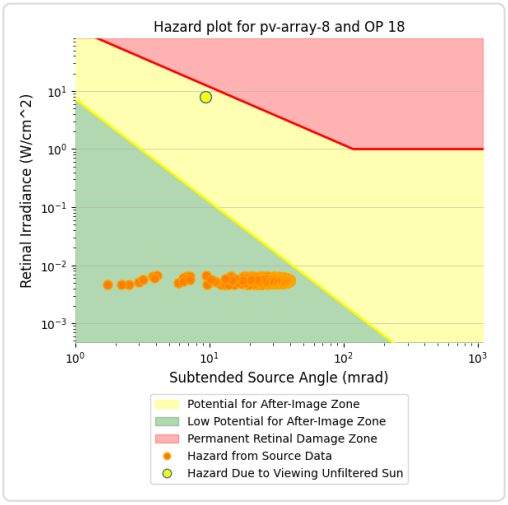
PV array 8 and OP 18

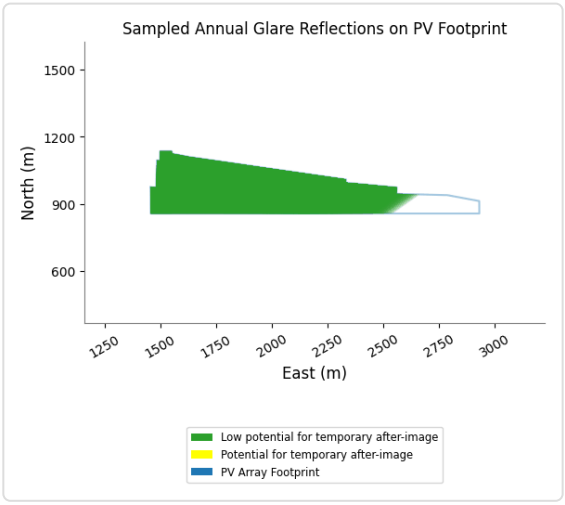
Yellow glare: none

Green glare: 300 min.





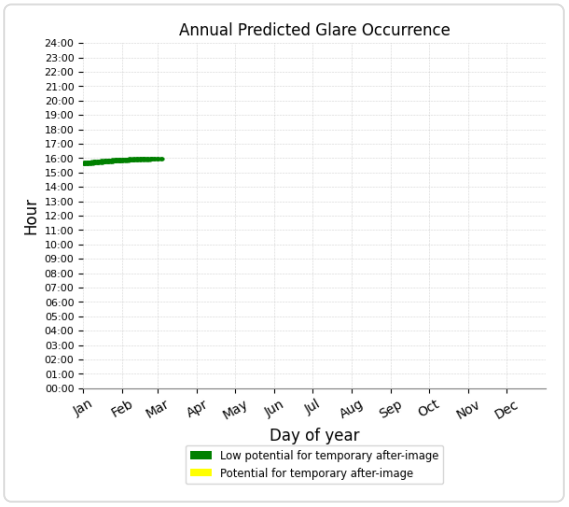


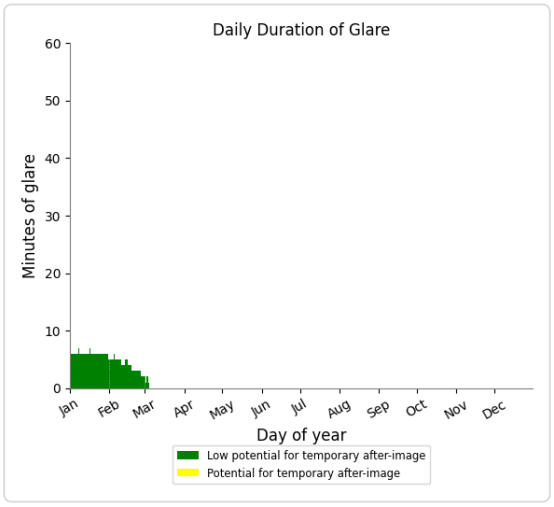


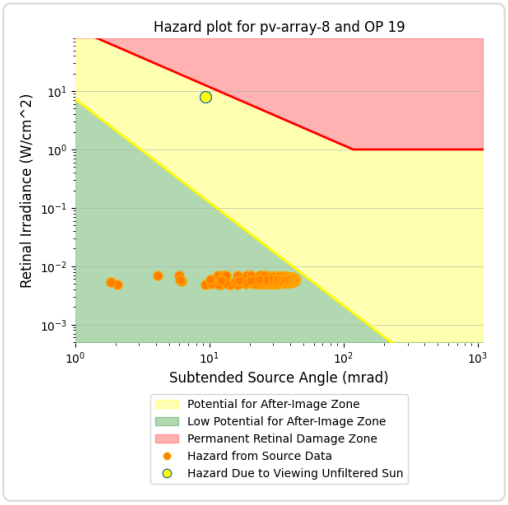
PV array 8 and OP 19

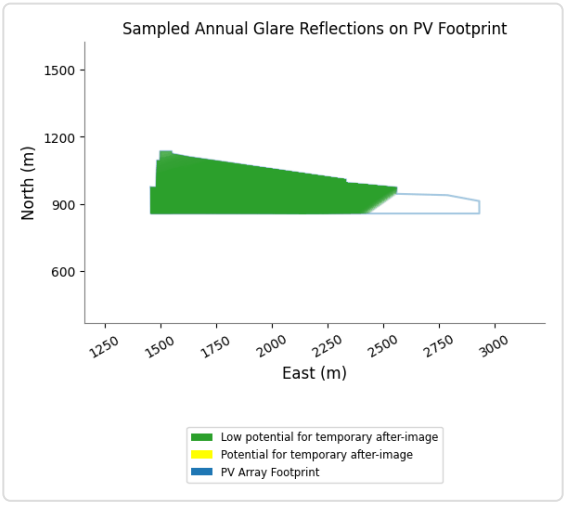
Yellow glare: none

Green glare: 306 min.





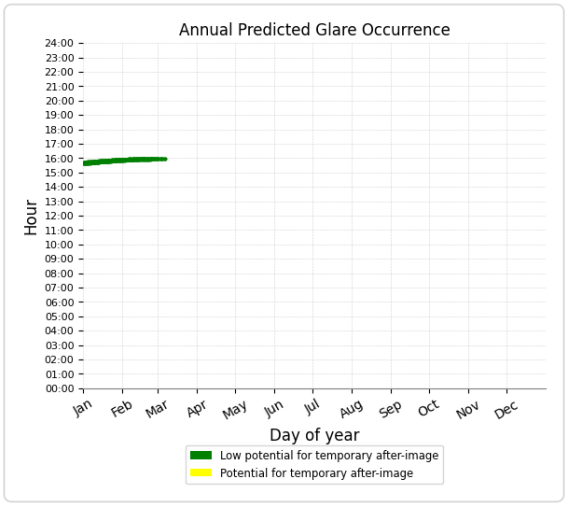


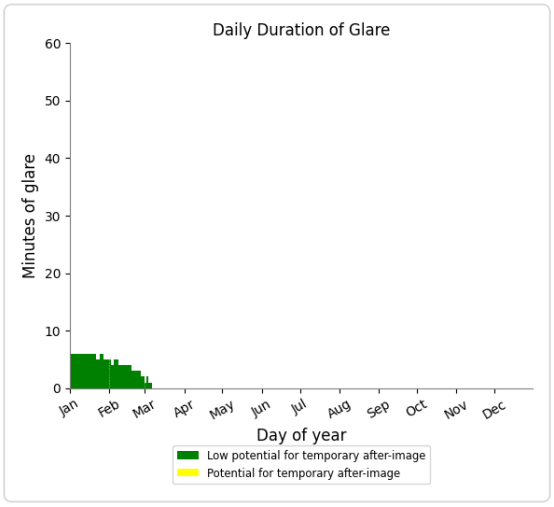


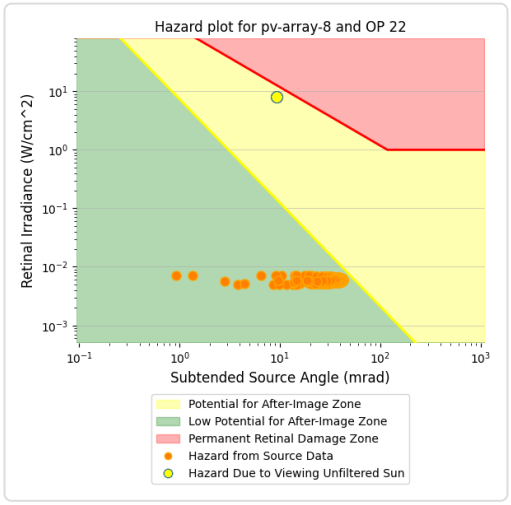
PV array 8 and OP 22

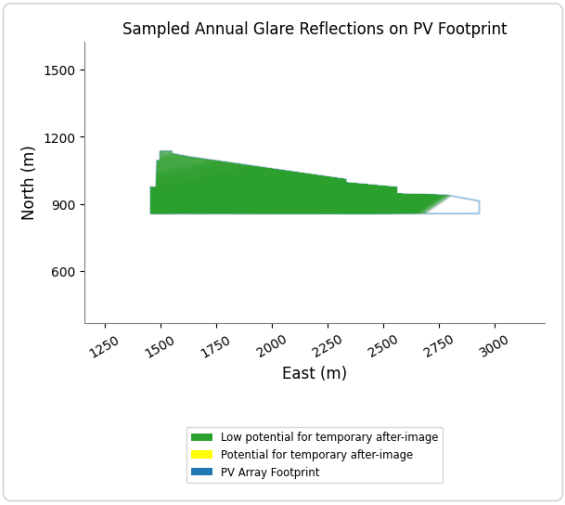
Yellow glare: none

Green glare: 290 min.





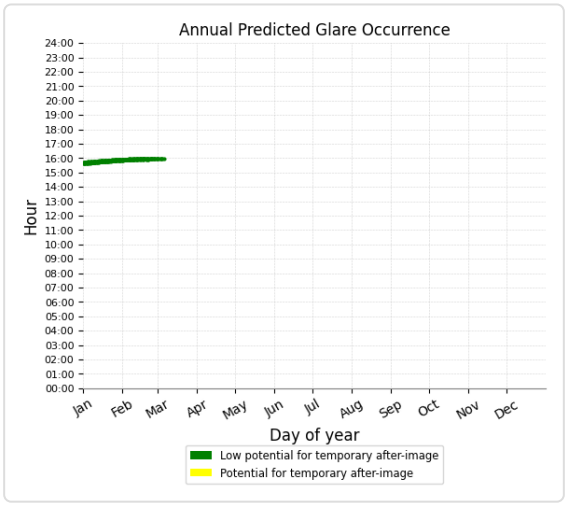


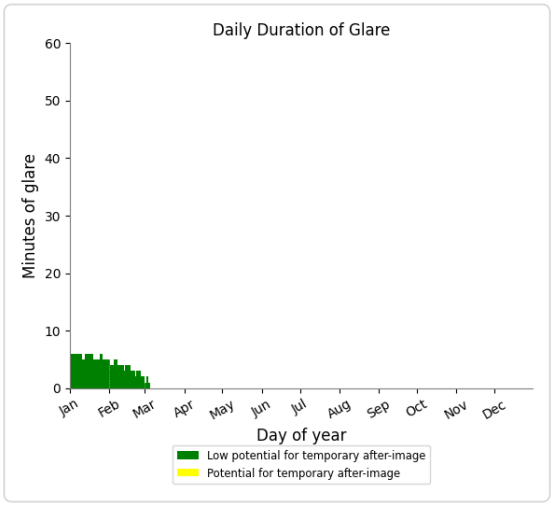


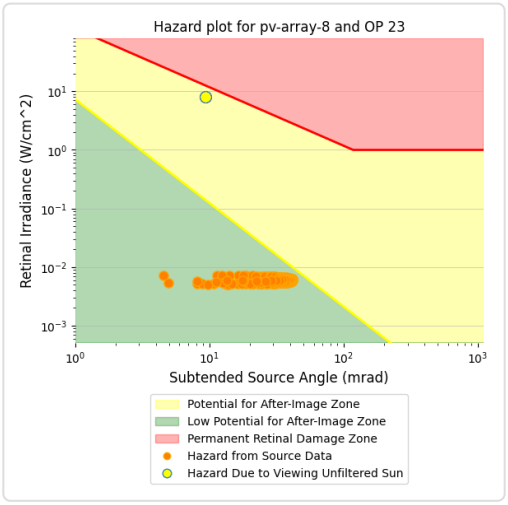
PV array 8 and OP 23

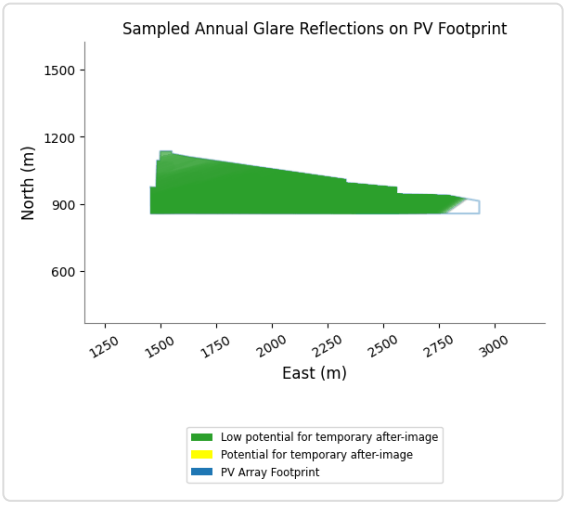
Yellow glare: none

Green glare: 280 min.





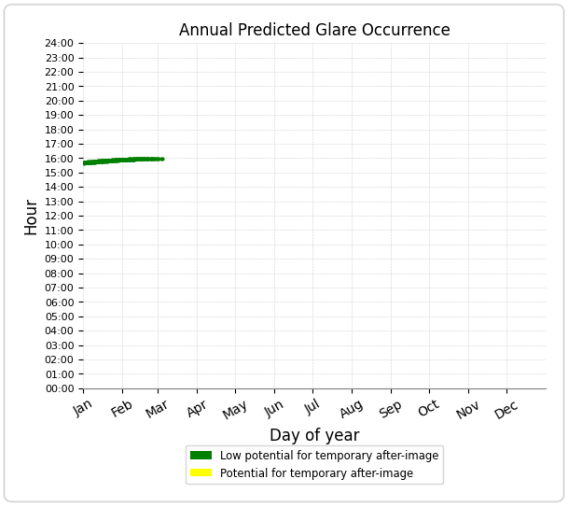


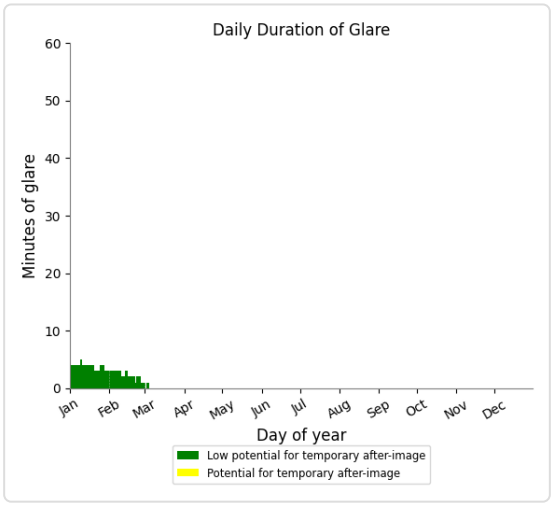


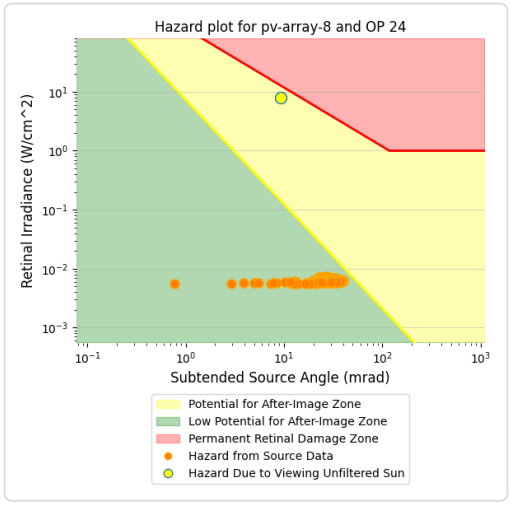
PV array 8 and OP 24

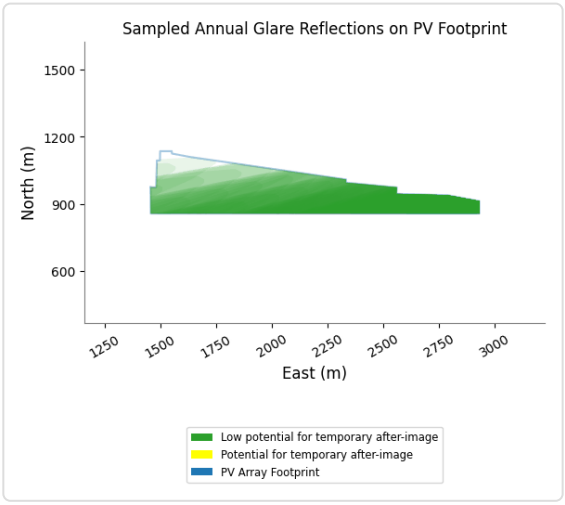
Yellow glare: none

Green glare: 185 min.



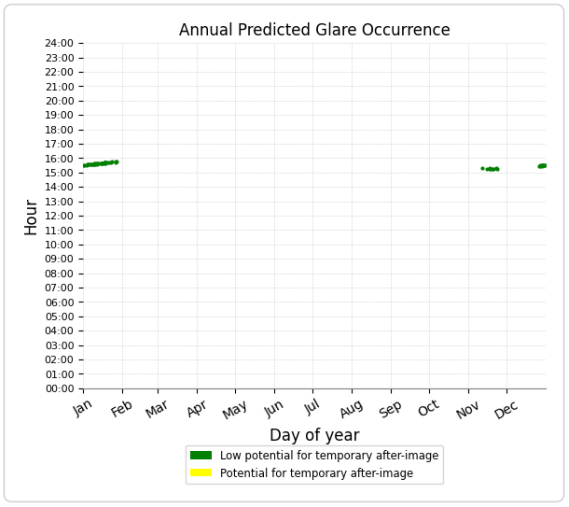


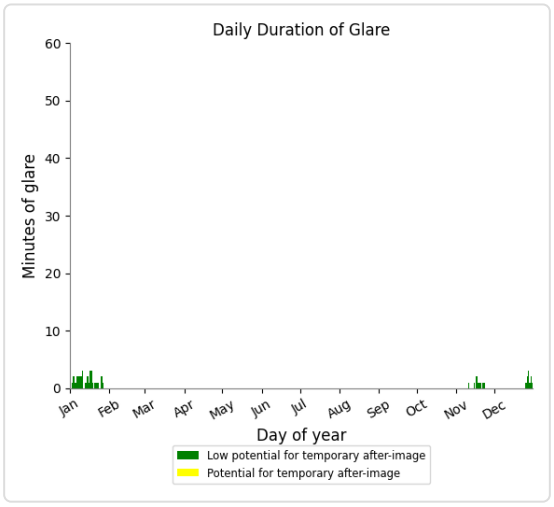


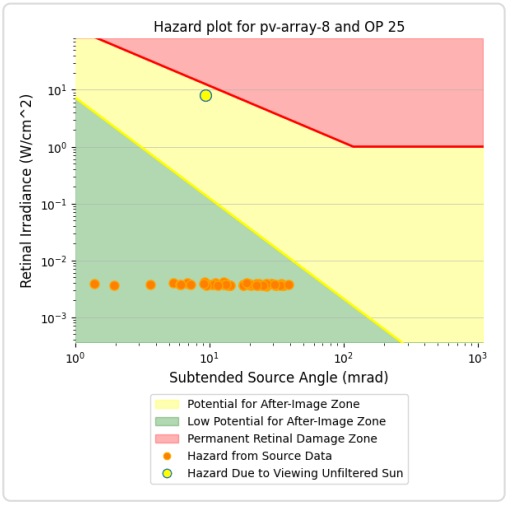


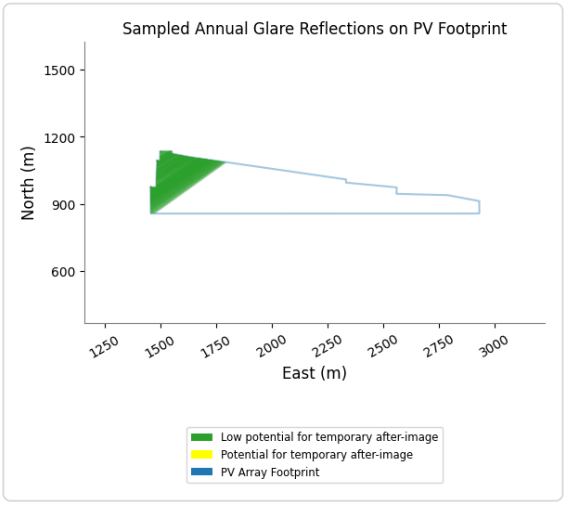
PV array 8 and OP 25

Yellow glare: none
Green glare: 55 min.









PV array 8 and OP 1

No glare found

PV array 8 and OP 2

No glare found

PV array 8 and OP 3

No glare found

PV array 8 and OP 4

No glare found

PV array 8 and OP 5

No glare found

PV array 8 and OP 6

No glare found

PV array 8 and OP 7

No glare found

PV array 8 and OP 8

No glare found

PV array 8 and OP 20

No glare found

PV array 8 and OP 21

No glare found

PV array 8 and OP 26

No glare found

PV array 8 and OP 27

No glare found

PV array 8 and OP 28

No glare found

PV array 8 and OP 29

No glare found

PV array 8 and OP 30

No glare found

PV array 8 and OP 31

No glare found

PV array 8 and OP 32

No glare found

PV array 8 and OP 33

No glare found

PV: PV array 9 no glare found

Receptor results ordered by category of glare

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

PV array 9 and Route: Avenue Road

No glare found

PV array 9 and Route: Main Camp Road

No glare found

PV array 9 and OP 1

No glare found

PV array 9 and OP 2

No glare found

PV array 9 and OP 3

No glare found

PV array 9 and OP 4

No glare found

PV array 9 and OP 5

No glare found

PV array 9 and OP 6

No glare found

PV array 9 and OP 7

No glare found

PV array 9 and OP 8

No glare found

PV array 9 and OP 9

No glare found

PV array 9 and OP 10

No glare found

PV array 9 and OP 11

No glare found

PV array 9 and OP 12

No glare found

PV array 9 and OP 13

No glare found

PV array 9 and OP 14

No glare found

PV array 9 and OP 15

No glare found

PV array 9 and OP 16

No glare found

PV array 9 and OP 17

No glare found

PV array 9 and OP 18

No glare found

PV array 9 and OP 19

No glare found

PV array 9 and OP 20

No glare found

PV array 9 and OP 21

No glare found

PV array 9 and OP 22

No glare found

PV array 9 and OP 23

No glare found

PV array 9 and OP 24

No glare found

PV array 9 and OP 25

No glare found

PV array 9 and OP 26

No glare found

PV array 9 and OP 27

No glare found

PV array 9 and OP 28

No glare found

PV array 9 and OP 29

No glare found

PV array 9 and OP 30

No glare found

PV array 9 and OP 31

No glare found

PV array 9 and OP 32

No glare found

PV array 9 and OP 33

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.
Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.
Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.
The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.
The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.
The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.
The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
Refer to the Help page at **www.forgesolar.com/help/** for assumptions and limitations not listed here.

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

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

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Glint and Glare Assessment Results Attachment B - Scenario 6

FORGESOLAR GLARE ANALYSIS

Project: **2320 Richmond Valley Solar Farm**
Site configuration: **2320 Richmond Valley Analysis N BckTra 202312111**

Created 11 Dec, 2023
Updated 18 Dec, 2023
Time-step 1 minute
Timezone offset UTC10
Minimum sun altitude 0.0 deg
DNI peaks at 1,000.0 W/m^2
Category 100 MW to 1 GW
Site ID 107582.18000

Ocular transmission coefficient 0.5
Pupil diameter 0.002 m
Eye focal length 0.017 m
Sun subtended angle 9.3 mrad
PV analysis methodology V2

Summary of Results No glare predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 19	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 23	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Avenue Road	0	0.0	0	0.0

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

Component Data

PV Arrays

Name: PV array 1
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.101325	153.019581	366.24	2.50	368.74
2	-29.101319	153.022208	373.42	2.50	375.92
3	-29.101675	153.022244	322.35	2.50	324.85
4	-29.101686	153.024706	312.51	2.50	315.01
5	-29.102036	153.024742	303.12	2.50	305.62
6	-29.102033	153.026689	299.33	2.50	301.83
7	-29.102411	153.026725	328.19	2.50	330.69
8	-29.102419	153.028128	322.49	2.50	324.99
9	-29.103497	153.028139	354.56	2.50	357.06
10	-29.103500	153.028281	326.46	2.50	328.96
11	-29.104558	153.028281	314.31	2.50	316.81
12	-29.104567	153.026794	364.57	2.50	367.07
13	-29.104200	153.026775	369.06	2.50	371.56
14	-29.104211	153.025361	350.76	2.50	353.26
15	-29.103472	153.025344	337.49	2.50	339.99
16	-29.103472	153.019586	354.43	2.50	356.93

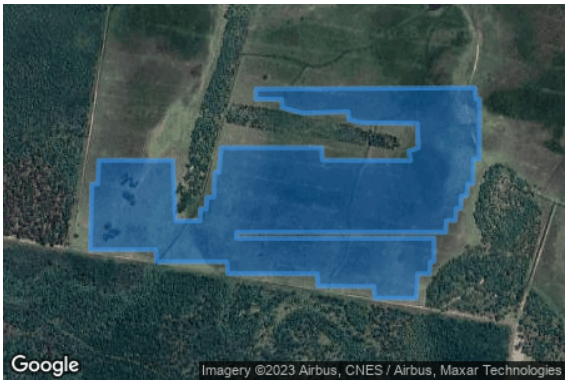
Name: PV array 10
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096789	153.033475	67.12	2.50	69.62
2	-29.096789	153.033625	94.58	2.50	97.08
3	-29.096086	153.033664	83.67	2.50	86.17
4	-29.096069	153.048192	86.35	2.50	88.85
5	-29.096428	153.048178	86.17	2.50	88.67
6	-29.096431	153.047381	77.50	2.50	80.00
7	-29.096778	153.047358	70.21	2.50	72.71
8	-29.096778	153.046492	64.01	2.50	66.51
9	-29.097136	153.046467	57.37	2.50	59.87
10	-29.097136	153.045553	58.92	2.50	61.42
11	-29.097508	153.045553	44.73	2.50	47.23
12	-29.097514	153.044489	51.53	2.50	54.03
13	-29.097786	153.044467	54.99	2.50	57.49
14	-29.097864	153.043553	60.25	2.50	62.75
15	-29.098228	153.043531	57.21	2.50	59.71
16	-29.098236	153.041514	58.17	2.50	60.67
17	-29.098608	153.041486	51.15	2.50	53.65
18	-29.098619	153.033442	60.48	2.50	62.98

Name: PV array 15
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

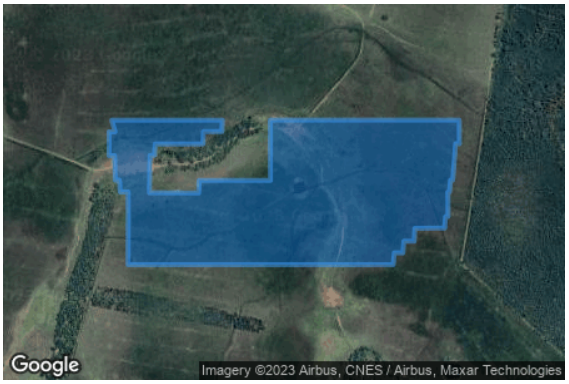
Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102156	153.044086	58.73	2.50	61.23
2	-29.102156	153.047328	63.32	2.50	65.82
3	-29.102194	153.047328	95.21	2.50	97.71
4	-29.102194	153.058594	119.73	2.50	122.23
5	-29.102550	153.058617	84.51	2.50	87.01
6	-29.102550	153.058697	82.32	2.50	84.82
7	-29.103253	153.058700	86.95	2.50	89.45
8	-29.103253	153.058464	98.42	2.50	100.92
9	-29.103636	153.058431	85.79	2.50	88.29
10	-29.103636	153.058125	71.39	2.50	73.89
11	-29.104347	153.058089	63.19	2.50	65.69
12	-29.104347	153.057872	68.64	2.50	71.14
13	-29.105078	153.057872	75.02	2.50	77.52
14	-29.105080	153.057786	73.92	2.50	76.42
15	-29.105431	153.057761	95.27	2.50	97.77
16	-29.105431	153.057622	95.06	2.50	97.56
17	-29.106164	153.057597	96.25	2.50	98.75
18	-29.106167	153.057461	85.20	2.50	87.70
19	-29.106514	153.057433	78.67	2.50	81.17
20	-29.106514	153.057292	76.66	2.50	79.16
21	-29.107410	153.057270	69.71	2.50	72.21
22	-29.107410	153.057190	70.70	2.50	73.20
23	-29.107760	153.057150	76.15	2.50	78.65
24	-29.107770	153.056900	69.23	2.50	71.73
25	-29.108870	153.056840	63.91	2.50	66.41
26	-29.108840	153.054250	69.03	2.50	71.53
27	-29.106690	153.054260	67.10	2.50	69.60
28	-29.106700	153.054510	61.84	2.50	64.34
29	-29.105460	153.054540	51.44	2.50	53.94
30	-29.105460	153.054670	46.48	2.50	48.98
31	-29.103650	153.054660	44.11	2.50	46.61
32	-29.103650	153.053990	50.89	2.50	53.39
33	-29.103260	153.053990	55.01	2.50	57.51
34	-29.103260	153.051930	50.62	2.50	53.12
35	-29.102900	153.051890	64.22	2.50	66.72
36	-29.102900	153.046260	78.81	2.50	81.31
37	-29.102530	153.046260	69.88	2.50	72.38
38	-29.102531	153.044111	81.44	2.50	83.94

Name: PV array 16
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109583	153.053697	35.88	2.50	38.38
2	-29.109580	153.053892	35.82	2.50	38.32
3	-29.108872	153.053936	34.22	2.50	36.72
4	-29.108872	153.056486	35.80	2.50	38.30
5	-29.110681	153.056581	33.60	2.50	36.10
6	-29.110680	153.057408	33.51	2.50	36.01
7	-29.110322	153.057431	33.12	2.50	35.62
8	-29.110333	153.057622	33.65	2.50	36.15
9	-29.109972	153.057656	34.81	2.50	37.31
10	-29.109969	153.057892	35.48	2.50	37.98
11	-29.109233	153.057922	37.27	2.50	39.77
12	-29.109230	153.058064	37.55	2.50	40.05
13	-29.108494	153.058144	37.24	2.50	39.74
14	-29.108494	153.061594	35.21	2.50	37.71
15	-29.108867	153.061622	34.11	2.50	36.61
16	-29.108875	153.064650	30.58	2.50	33.08
17	-29.108597	153.064578	31.08	2.50	33.58
18	-29.108494	153.064914	30.76	2.50	33.26
19	-29.107772	153.064875	32.09	2.50	34.59
20	-29.107750	153.062925	30.39	2.50	32.89
21	-29.107664	153.062525	32.23	2.50	34.73
22	-29.107419	153.062503	32.17	2.50	34.67
23	-29.107467	153.060950	34.16	2.50	36.66
24	-29.107297	153.060244	33.94	2.50	36.44
25	-29.107050	153.060219	33.92	2.50	36.42
26	-29.107044	153.059328	34.04	2.50	36.54
27	-29.106736	153.059336	34.04	2.50	36.54
28	-29.106700	153.066869	31.79	2.50	34.29
29	-29.107036	153.066903	31.47	2.50	33.97
30	-29.107036	153.067019	31.60	2.50	34.10
31	-29.108842	153.067022	33.82	2.50	36.32
32	-29.108842	153.066803	33.30	2.50	35.80
33	-29.109572	153.066800	34.25	2.50	36.75
34	-29.109570	153.066614	33.70	2.50	36.20
35	-29.109936	153.066586	34.18	2.50	36.68
36	-29.109940	153.066383	33.57	2.50	36.07
37	-29.110311	153.066380	34.11	2.50	36.61
38	-29.110310	153.066217	33.64	2.50	36.14
39	-29.110669	153.066192	34.08	2.50	36.58
40	-29.110675	153.065881	33.18	2.50	35.68
41	-29.111028	153.065858	33.66	2.50	36.16
42	-29.111028	153.058667	34.00	2.50	36.50
43	-29.111203	153.058667	34.00	2.50	36.50
44	-29.111203	153.065461	33.51	2.50	36.01
45	-29.111908	153.065461	35.73	2.50	38.23
46	-29.111908	153.065331	35.54	2.50	38.04
47	-29.112269	153.065303	35.50	2.50	38.00
48	-29.112270	153.064894	35.16	2.50	37.66
49	-29.112997	153.064853	35.92	2.50	38.42
50	-29.112997	153.063419	33.64	2.50	36.14
51	-29.112650	153.063394	34.07	2.50	36.57
52	-29.112639	153.061467	31.62	2.50	34.12
53	-29.112269	153.061444	32.22	2.50	34.72
54	-29.112264	153.058369	34.15	2.50	36.65
55	-29.111908	153.058342	34.08	2.50	36.58
56	-29.111908	153.055928	33.83	2.50	36.33
57	-29.111547	153.055900	33.61	2.50	36.11
58	-29.111550	153.053644	40.15	2.50	42.65

Name: PV array 17
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102197	153.059017	39.95	2.50	42.45
2	-29.102194	153.062817	37.76	2.50	40.26
3	-29.102533	153.062803	35.96	2.50	38.46
4	-29.102539	153.062167	38.22	2.50	40.72
5	-29.102906	153.062150	38.04	2.50	40.54
6	-29.102910	153.060506	39.98	2.50	42.48
7	-29.103247	153.060483	38.09	2.50	40.59
8	-29.103253	153.060331	35.83	2.50	38.33
9	-29.104367	153.060311	35.23	2.50	37.73
10	-29.104375	153.062003	35.00	2.50	37.50
11	-29.103994	153.062019	35.26	2.50	37.76
12	-29.104000	153.064469	35.33	2.50	37.83
13	-29.102194	153.064467	41.33	2.50	43.83
14	-29.102194	153.070958	35.53	2.50	38.03
15	-29.102900	153.070964	31.99	2.50	34.49
16	-29.102900	153.070833	34.31	2.50	36.81
17	-29.103986	153.070736	38.09	2.50	40.59
18	-29.103992	153.070656	36.86	2.50	39.36
19	-29.104342	153.070622	35.58	2.50	38.08
20	-29.104344	153.070567	35.32	2.50	37.82
21	-29.105078	153.070575	39.57	2.50	42.07
22	-29.105080	153.070486	39.78	2.50	42.28
23	-29.105425	153.070458	37.46	2.50	39.96
24	-29.105431	153.069433	34.45	2.50	36.95
25	-29.105819	153.069408	43.72	2.50	46.22
26	-29.105819	153.069053	44.69	2.50	47.19
27	-29.106167	153.069022	39.39	2.50	41.89
28	-29.106167	153.068725	33.07	2.50	35.57
29	-29.106519	153.068689	38.03	2.50	40.53
30	-29.106520	153.059578	36.08	2.50	38.58
31	-29.104344	153.059583	36.72	2.50	39.22
32	-29.104347	153.059308	37.07	2.50	39.57
33	-29.103989	153.059278	37.85	2.50	40.35
34	-29.103989	153.059139	38.21	2.50	40.71
35	-29.103253	153.059111	40.68	2.50	43.18
36	-29.103253	153.058922	39.83	2.50	42.33
37	-29.102544	153.058922	38.08	2.50	40.58
38	-29.102544	153.059133	37.66	2.50	40.16

Name: PV array 18
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.109586	153.069572	30.93	2.50	33.43
2	-29.109592	153.071361	29.24	2.50	31.74
3	-29.109972	153.071386	29.96	2.50	32.46
4	-29.109978	153.072467	30.00	2.50	32.50
5	-29.110311	153.072500	30.00	2.50	32.50
6	-29.110319	153.073303	31.15	2.50	33.65
7	-29.110672	153.073361	30.64	2.50	33.14
8	-29.112108	153.073353	28.68	2.50	31.18
9	-29.112119	153.072439	30.64	2.50	33.14
10	-29.112300	153.072442	30.87	2.50	33.37
11	-29.112300	153.074256	29.00	2.50	31.50
12	-29.112653	153.074275	29.74	2.50	32.24
13	-29.112661	153.074633	29.77	2.50	32.27
14	-29.113006	153.074628	30.79	2.50	33.29
15	-29.113006	153.076522	29.89	2.50	32.39
16	-29.112797	153.076511	29.59	2.50	32.09
17	-29.112797	153.078297	26.43	2.50	28.93
18	-29.113372	153.078353	27.13	2.50	29.63
19	-29.114981	153.078347	29.88	2.50	32.38
20	-29.114969	153.078094	29.97	2.50	32.47
21	-29.115317	153.078075	30.26	2.50	32.76
22	-29.115320	153.076460	34.27	2.50	36.77
23	-29.115528	153.076456	33.21	2.50	35.71
24	-29.115525	153.070742	31.94	2.50	34.44
25	-29.114467	153.070742	30.74	2.50	33.24
26	-29.114467	153.070797	30.48	2.50	32.98
27	-29.113725	153.070797	30.05	2.50	32.55
28	-29.113725	153.070239	31.57	2.50	34.07
29	-29.113350	153.070219	31.26	2.50	33.76
30	-29.113350	153.070125	31.37	2.50	33.87
31	-29.113000	153.070100	31.06	2.50	33.56
32	-29.113000	153.069572	31.53	2.50	34.03

Name: PV array 19
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.095008	153.049878	30.65	2.50	33.15
2	-29.095006	153.067636	55.88	2.50	58.38
3	-29.095361	153.067678	52.05	2.50	54.55
4	-29.095372	153.070639	54.94	2.50	57.44
5	-29.095722	153.070672	51.58	2.50	54.08
6	-29.095733	153.071469	49.76	2.50	52.26
7	-29.097678	153.071458	43.37	2.50	45.87
8	-29.097692	153.071583	43.76	2.50	46.26
9	-29.099842	153.071569	35.11	2.50	37.61
10	-29.099842	153.071353	33.97	2.50	36.47
11	-29.100928	153.071347	33.60	2.50	36.10
12	-29.100928	153.071208	33.60	2.50	36.10
13	-29.101667	153.071186	35.03	2.50	37.53
14	-29.101658	153.071047	35.08	2.50	37.58
15	-29.102022	153.071031	35.02	2.50	37.52
16	-29.102020	153.047342	32.77	2.50	35.27
17	-29.102114	153.047336	32.68	2.50	35.18
18	-29.102111	153.044069	34.04	2.50	36.54
19	-29.102019	153.044086	34.00	2.50	36.50
20	-29.102014	153.039336	38.65	2.50	41.15
21	-29.099867	153.039331	37.84	2.50	40.34
22	-29.099861	153.040528	36.06	2.50	38.56
23	-29.099494	153.040547	35.30	2.50	37.80
24	-29.099494	153.043892	32.13	2.50	34.63
25	-29.100950	153.043914	33.56	2.50	36.06
26	-29.100958	153.045236	34.06	2.50	36.56
27	-29.100580	153.045280	34.35	2.50	36.85
28	-29.100570	153.046140	33.76	2.50	36.26
29	-29.100220	153.046170	35.46	2.50	37.96
30	-29.100220	153.046440	35.17	2.50	37.67
31	-29.100570	153.046470	33.65	2.50	36.15
32	-29.100570	153.046810	33.54	2.50	36.04
33	-29.100220	153.046830	34.76	2.50	37.26
34	-29.100220	153.048570	34.30	2.50	36.80
35	-29.099860	153.048580	34.26	2.50	36.76
36	-29.099860	153.055040	30.23	2.50	32.73
37	-29.097520	153.055040	29.19	2.50	31.69
38	-29.097508	153.049244	29.61	2.50	32.11
39	-29.096461	153.049253	28.44	2.50	30.94

Name: PV array 2
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103011	153.028981	45.87	2.50	48.37
2	-29.103033	153.031867	42.45	2.50	44.95
3	-29.105117	153.031872	39.58	2.50	42.08
4	-29.105139	153.029231	43.48	2.50	45.98
5	-29.104064	153.029211	43.73	2.50	46.23
6	-29.104044	153.028956	41.58	2.50	44.08

Name: PV array 20
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.097756	153.046586	30.04	2.50	32.54
2	-29.097722	153.046661	30.51	2.50	33.01
3	-29.097722	153.050819	31.18	2.50	33.68
4	-29.098397	153.050817	30.55	2.50	33.05
5	-29.098400	153.050675	29.78	2.50	32.28
6	-29.098433	153.050681	29.76	2.50	32.26
7	-29.098430	153.049186	29.93	2.50	32.43
8	-29.098747	153.049158	31.20	2.50	33.70
9	-29.098744	153.049008	30.31	2.50	32.81
10	-29.098781	153.048992	30.37	2.50	32.87
11	-29.098789	153.045769	30.60	2.50	33.10
12	-29.098081	153.045769	31.10	2.50	33.60
13	-29.098089	153.046567	32.80	2.50	35.30

Name: PV array 21
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.119964	153.067553	34.62	2.50	37.12
2	-29.119931	153.071286	34.59	2.50	37.09
3	-29.120281	153.071325	33.95	2.50	36.45
4	-29.120344	153.073556	31.66	2.50	34.16
5	-29.120458	153.073553	31.39	2.50	33.89
6	-29.120464	153.075878	34.40	2.50	36.90
7	-29.120114	153.075856	33.35	2.50	35.85
8	-29.120114	153.078875	29.83	2.50	32.33
9	-29.120853	153.078881	29.81	2.50	32.31
10	-29.120853	153.078372	29.48	2.50	31.98
11	-29.121589	153.078375	30.72	2.50	33.22
12	-29.121597	153.077969	30.34	2.50	32.84
13	-29.121947	153.077806	30.38	2.50	32.88
14	-29.121947	153.077344	29.07	2.50	31.57
15	-29.122303	153.077336	29.04	2.50	31.54
16	-29.122294	153.075361	32.04	2.50	34.54
17	-29.121594	153.075361	34.77	2.50	37.27
18	-29.121586	153.073336	29.42	2.50	31.92
19	-29.121239	153.073328	29.58	2.50	32.08
20	-29.121294	153.070856	32.46	2.50	34.96
21	-29.121714	153.070683	31.91	2.50	34.41
22	-29.121714	153.070081	32.74	2.50	35.24
23	-29.122067	153.069833	32.73	2.50	35.23
24	-29.122103	153.067342	29.46	2.50	31.96
25	-29.121022	153.067347	32.75	2.50	35.25
26	-29.121022	153.067553	32.13	2.50	34.63

Name: PV array 22
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.114775	153.080247	54.75	2.50	57.25
2	-29.114775	153.080583	53.92	2.50	56.42
3	-29.115122	153.080614	56.19	2.50	58.69
4	-29.115125	153.080961	59.96	2.50	62.46
5	-29.115822	153.080961	55.06	2.50	57.56
6	-29.115822	153.080836	49.55	2.50	52.05
7	-29.116564	153.080797	49.76	2.50	52.26
8	-29.116564	153.080217	46.19	2.50	48.69
9	-29.116928	153.080192	43.83	2.50	46.33
10	-29.116928	153.079286	43.59	2.50	46.09
11	-29.117444	153.079256	45.43	2.50	47.93
12	-29.117444	153.078672	40.64	2.50	43.14
13	-29.117797	153.078642	41.60	2.50	44.10
14	-29.117797	153.078194	41.85	2.50	44.35
15	-29.117103	153.078194	41.39	2.50	43.89
16	-29.117103	153.078386	41.00	2.50	43.50
17	-29.116203	153.078425	51.19	2.50	53.69
18	-29.116208	153.078614	48.69	2.50	51.19
19	-29.115853	153.078644	55.75	2.50	58.25
20	-29.115853	153.079003	60.58	2.50	63.08
21	-29.115475	153.079028	56.40	2.50	58.90
22	-29.115481	153.079553	48.27	2.50	50.77
23	-29.115125	153.079589	49.11	2.50	51.61
24	-29.115128	153.080219	57.49	2.50	59.99

Name: PV array 23
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.115711	153.068300	41.50	2.50	44.00
2	-29.115708	153.077564	41.51	2.50	44.01
3	-29.116775	153.077617	41.78	2.50	44.28
4	-29.116775	153.077372	41.72	2.50	44.22
5	-29.117500	153.077344	41.23	2.50	43.73
6	-29.117500	153.077214	40.70	2.50	43.20
7	-29.117853	153.077178	40.00	2.50	42.50
8	-29.117858	153.077039	40.44	2.50	42.94
9	-29.118383	153.077014	41.50	2.50	44.00
10	-29.118383	153.076644	41.18	2.50	43.68
11	-29.118739	153.076631	40.28	2.50	42.78
12	-29.118739	153.075653	39.12	2.50	41.62
13	-29.119083	153.075622	38.34	2.50	40.84
14	-29.119083	153.072625	39.10	2.50	41.60
15	-29.118736	153.072594	40.48	2.50	42.98
16	-29.118736	153.068858	40.41	2.50	42.91
17	-29.118383	153.068831	42.05	2.50	44.55
18	-29.118383	153.067967	42.40	2.50	44.90
19	-29.116806	153.067970	42.22	2.50	44.72
20	-29.116810	153.068106	42.02	2.50	44.52
21	-29.116053	153.068131	41.65	2.50	44.15
22	-29.116050	153.068272	42.27	2.50	44.77

Name: PV array 3
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.103158	153.033744	37.67	2.50	40.17
2	-29.103161	153.034311	44.09	2.50	46.59
3	-29.103506	153.034347	49.91	2.50	52.41
4	-29.103506	153.035361	50.39	2.50	52.89
5	-29.103864	153.035389	48.02	2.50	50.52
6	-29.103864	153.035694	46.05	2.50	48.55
7	-29.104236	153.035733	43.39	2.50	45.89
8	-29.104242	153.036075	41.79	2.50	44.29
9	-29.105681	153.036081	43.07	2.50	45.57
10	-29.105678	153.035300	40.37	2.50	42.87
11	-29.105300	153.035261	38.35	2.50	40.85
12	-29.105300	153.033747	38.15	2.50	40.65

Name: PV array 4
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.100956	153.029697	61.70	2.50	64.20
2	-29.100960	153.033861	52.05	2.50	54.55
3	-29.102319	153.033872	41.22	2.50	43.72
4	-29.102206	153.029711	55.91	2.50	58.41

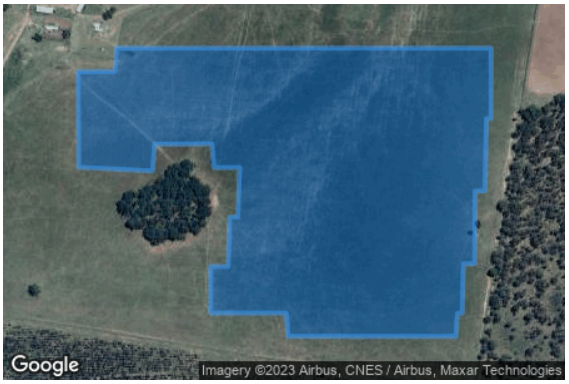
Name: PV array 5
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.096244	153.020017	63.68	2.50	66.18
2	-29.096258	153.021258	58.95	2.50	61.45
3	-29.096144	153.021281	58.13	2.50	60.63
4	-29.096142	153.022628	52.57	2.50	55.07
5	-29.096497	153.022653	51.62	2.50	54.12
6	-29.096506	153.025769	53.56	2.50	56.06
7	-29.096856	153.025817	52.73	2.50	55.23
8	-29.096858	153.026111	52.97	2.50	55.47
9	-29.097494	153.026317	52.15	2.50	54.65
10	-29.097789	153.027056	53.44	2.50	55.94
11	-29.098275	153.027050	51.11	2.50	53.61
12	-29.098319	153.019792	51.02	2.50	53.52
13	-29.098064	153.019775	50.99	2.50	53.49
14	-29.097667	153.020156	52.49	2.50	54.99
15	-29.097636	153.020281	52.49	2.50	54.99
16	-29.096947	153.020283	54.63	2.50	57.13
17	-29.096931	153.020225	54.40	2.50	56.90
18	-29.096930	153.020225	52.63	2.50	55.13
19	-29.096930	153.020225	56.59	2.50	59.09

Name: PV array 6
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.098411	153.019708	52.49	2.50	54.99
2	-29.098410	153.022644	54.27	2.50	56.77
3	-29.098453	153.022644	54.17	2.50	56.67
4	-29.098453	153.025644	52.52	2.50	55.02
5	-29.098406	153.025644	52.52	2.50	55.02
6	-29.098410	153.026583	50.97	2.50	53.47
7	-29.098456	153.026583	50.96	2.50	53.46
8	-29.098460	153.028092	50.98	2.50	53.48
9	-29.098806	153.028111	49.50	2.50	52.00
10	-29.098814	153.028110	49.50	2.50	52.00
11	-29.100568	153.028106	43.03	2.50	45.53
12	-29.100578	153.028090	43.04	2.50	45.54
13	-29.100586	153.028083	43.04	2.50	45.54
14	-29.100586	153.024706	46.96	2.50	49.46
15	-29.100236	153.024675	47.84	2.50	50.34
16	-29.100236	153.024317	47.76	2.50	50.26
17	-29.099511	153.024286	51.07	2.50	53.57
18	-29.099503	153.021261	52.06	2.50	54.56
19	-29.099153	153.021256	51.64	2.50	54.14
20	-29.099147	153.019714	53.21	2.50	55.71

Name: PV array 7
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.102553	153.036561	61.89	2.50	64.39
2	-29.102550	153.037192	57.69	2.50	60.19
3	-29.102203	153.037222	56.56	2.50	59.06
4	-29.102200	153.043656	57.79	2.50	60.29
5	-29.103258	153.043656	59.96	2.50	62.46
6	-29.103258	153.043578	60.09	2.50	62.59
7	-29.104339	153.043550	61.32	2.50	63.82
8	-29.104344	153.043381	63.82	2.50	66.32
9	-29.105428	153.043375	64.55	2.50	67.05
10	-29.105430	153.043181	65.16	2.50	67.66
11	-29.106169	153.043158	66.84	2.50	69.34
12	-29.106170	153.043078	69.07	2.50	71.57
13	-29.106517	153.043053	71.34	2.50	73.84
14	-29.106517	153.040167	72.19	2.50	74.69
15	-29.106167	153.040136	70.00	2.50	72.50
16	-29.106167	153.038839	69.02	2.50	71.52
17	-29.105467	153.038839	69.78	2.50	72.28
18	-29.105470	153.039136	74.83	2.50	77.33
19	-29.104728	153.039169	75.24	2.50	77.74
20	-29.104728	153.039303	72.87	2.50	75.37
21	-29.103992	153.039336	67.81	2.50	70.31
22	-29.103990	153.038897	63.04	2.50	65.54
23	-29.103636	153.038858	60.65	2.50	63.15
24	-29.103640	153.037875	61.34	2.50	63.84
25	-29.104042	153.037839	65.75	2.50	68.25
26	-29.103986	153.036569	63.73	2.50	66.23

Name: PV array 8
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.092536	153.034539	49.37	2.50	51.87
2	-29.092539	153.034797	46.57	2.50	49.07
3	-29.091453	153.034833	44.03	2.50	46.53
4	-29.091453	153.034972	42.10	2.50	44.60
5	-29.091078	153.034981	41.53	2.50	44.03
6	-29.091078	153.035514	38.85	2.50	41.35
7	-29.091175	153.035525	37.65	2.50	40.15
8	-29.091308	153.036322	36.36	2.50	38.86
9	-29.092222	153.043542	34.71	2.50	37.21
10	-29.092350	153.043533	33.71	2.50	36.21
11	-29.092544	153.045875	34.18	2.50	36.68
12	-29.092803	153.045858	35.67	2.50	38.17
13	-29.092858	153.048208	36.30	2.50	38.80
14	-29.093097	153.049672	36.65	2.50	39.15
15	-29.093600	153.049675	36.09	2.50	38.59
16	-29.093600	153.034550	36.90	2.50	39.40
17	-29.093600	153.034550	38.56	2.50	41.06
18	-29.093600	153.034550	40.09	2.50	42.59
19	-29.093600	153.034550	43.30	2.50	45.80
20	-29.093600	153.034550	46.85	2.50	49.35
21	-29.093600	153.034550	50.12	2.50	52.62
22	-29.093600	153.034550	50.80	2.50	53.30

Name: PV array 9
Axis tracking: Single-axis rotation
Backtracking: None
Tracking axis orientation: 0.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.093742	153.034075	47.59	2.50	50.09
2	-29.093742	153.047911	29.17	2.50	31.67
3	-29.093636	153.047906	29.32	2.50	31.82
4	-29.093640	153.047924	29.32	2.50	31.82
5	-29.094433	153.049239	29.11	2.50	31.61
6	-29.094433	153.049097	29.00	2.50	31.50
7	-29.094797	153.049075	29.37	2.50	31.87
8	-29.094797	153.048883	29.37	2.50	31.87
9	-29.095178	153.048853	29.93	2.50	32.43
10	-29.095178	153.048714	29.93	2.50	32.43
11	-29.095531	153.048686	29.56	2.50	32.06
12	-29.095533	153.048492	29.56	2.50	32.06
13	-29.095894	153.048458	29.04	2.50	31.54
14	-29.095890	153.034044	50.01	2.50	52.51

Route Receptors

Name: Avenue Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.104310	153.008342	42.58	2.40	44.98
2	-29.100917	153.012869	48.57	2.40	50.97
3	-29.099510	153.019414	55.62	2.40	58.02
4	-29.101310	153.026194	44.13	2.40	46.53
5	-29.100501	153.029799	39.40	2.40	41.80
6	-29.100182	153.033833	38.23	2.40	40.63
7	-29.099919	153.034691	38.36	2.40	40.76
8	-29.099619	153.036214	38.31	2.40	40.71
9	-29.099788	153.037373	38.57	2.40	40.97
10	-29.098748	153.043470	32.00	2.40	34.40
11	-29.096820	153.048507	29.92	2.40	32.32
12	-29.092638	153.050803	31.00	2.40	33.40
13	-29.089901	153.051575	41.28	2.40	43.68
14	-29.088341	153.054683	47.04	2.40	49.44
15	-29.087047	153.056636	55.63	2.40	58.03
16	-29.086241	153.058610	59.01	2.40	61.41
17	-29.084685	153.059683	59.79	2.40	62.19

Name: Main Camp Road
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (m)	Height above ground (m)	Total elevation (m)
1	-29.130769	153.064031	35.05	2.40	37.45
2	-29.130881	153.067035	33.07	2.40	35.47
3	-29.130450	153.072142	26.52	2.40	28.92
4	-29.129644	153.084169	26.00	2.40	28.40

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (m)	Height (m)
OP 1	1	-29.098436	153.005919	57.00	1.50
OP 2	2	-29.098614	153.005617	58.18	1.50
OP 3	3	-29.098942	153.009817	58.46	1.50
OP 4	4	-29.104081	153.007164	43.97	1.50
OP 5	5	-29.105522	153.007317	42.09	1.50
OP 6	6	-29.104364	153.005417	45.19	1.50
OP 7	7	-29.105019	153.006536	45.10	1.50
OP 8	8	-29.117603	153.001347	38.65	1.50
OP 9	9	-29.083078	153.055558	73.37	1.50
OP 10	10	-29.076967	153.057103	64.26	1.50
OP 11	11	-29.080647	153.066289	49.73	1.50
OP 12	12	-29.083183	153.068906	49.76	1.50
OP 13	13	-29.080508	153.075694	58.03	1.50
OP 14	14	-29.072514	153.073319	58.38	1.50
OP 15	15	-29.079144	153.061150	62.76	1.50
OP 16	16	-29.084792	153.057350	64.28	1.50
OP 17	17	-29.087883	153.058739	46.82	1.50
OP 18	18	-29.081653	153.067194	53.77	1.50
OP 19	19	-29.085114	153.060258	60.28	1.50
OP 20	20	-29.090203	153.055103	40.01	1.50
OP 21	21	-29.106228	153.101144	34.31	1.50
OP 22	22	-29.084800	153.063742	69.22	1.50
OP 23	23	-29.084386	153.065572	66.41	1.50
OP 24	24	-29.084969	153.068331	50.01	1.50
OP 25	25	-29.081494	153.054019	74.64	1.50
OP 26	26	-29.131783	153.064194	34.19	1.50
OP 27	27	-29.132158	153.065619	34.34	1.50
OP 28	28	-29.131331	153.065711	36.18	1.50
OP 29	29	-29.138036	153.099008	43.00	1.50
OP 30	30	-29.134267	153.099875	41.44	1.50
OP 31	31	-29.138078	153.100536	38.27	1.50
OP 32	32	-29.132817	153.101467	42.08	1.50
OP 33	33	-29.134686	153.059939	31.67	1.50

Glare Analysis Results

Summary of Results No glare predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 17	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 18	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 19	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 20	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 21	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 22	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 23	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
PV array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

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

Avenue Road	0	0.0	0	0.0
Main Camp Road	0	0.0	0	0.0

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

PV: PV array 1 no glare found

Receptor results ordered by category of glare

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

PV array 1 and Route: Avenue Road

No glare found

PV array 1 and Route: Main Camp Road

No glare found

PV array 1 and OP 1

No glare found

PV array 1 and OP 2

No glare found

PV array 1 and OP 3

No glare found

PV array 1 and OP 4

No glare found

PV array 1 and OP 5

No glare found

PV array 1 and OP 6

No glare found

PV array 1 and OP 7

No glare found

PV array 1 and OP 8

No glare found

PV array 1 and OP 9

No glare found

PV array 1 and OP 10

No glare found

PV array 1 and OP 11

No glare found

PV array 1 and OP 12

No glare found

PV array 1 and OP 13

No glare found

PV array 1 and OP 14

No glare found

PV array 1 and OP 15

No glare found

PV array 1 and OP 16

No glare found

PV array 1 and OP 17

No glare found

PV array 1 and OP 18

No glare found

PV array 1 and OP 19

No glare found

PV array 1 and OP 20

No glare found

PV array 1 and OP 21

No glare found

PV array 1 and OP 22

No glare found

PV array 1 and OP 23

No glare found

PV array 1 and OP 24

No glare found

PV array 1 and OP 25

No glare found

PV array 1 and OP 26

No glare found

PV array 1 and OP 27

No glare found

PV array 1 and OP 28

No glare found

PV array 1 and OP 29

No glare found

PV array 1 and OP 30

No glare found

PV array 1 and OP 31

No glare found

PV array 1 and OP 32

No glare found

PV array 1 and OP 33

No glare found

PV: PV array 10 no glare found

Receptor results ordered by category of glare

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

PV array 10 and Route: Avenue Road

No glare found

PV array 10 and Route: Main Camp Road

No glare found

PV array 10 and OP 1

No glare found

PV array 10 and OP 2

No glare found

PV array 10 and OP 3

No glare found

PV array 10 and OP 4

No glare found

PV array 10 and OP 5

No glare found

PV array 10 and OP 6

No glare found

PV array 10 and OP 7

No glare found

PV array 10 and OP 8

No glare found

PV array 10 and OP 9

No glare found

PV array 10 and OP 10

No glare found

PV array 10 and OP 11

No glare found

PV array 10 and OP 12

No glare found

PV array 10 and OP 13

No glare found

PV array 10 and OP 14

No glare found

PV array 10 and OP 15

No glare found

PV array 10 and OP 16

No glare found

PV array 10 and OP 17

No glare found

PV array 10 and OP 18

No glare found

PV array 10 and OP 19

No glare found

PV array 10 and OP 20

No glare found

PV array 10 and OP 21

No glare found

PV array 10 and OP 22

No glare found

PV array 10 and OP 23

No glare found

PV array 10 and OP 24

No glare found

PV array 10 and OP 25

No glare found

PV array 10 and OP 26

No glare found

PV array 10 and OP 27

No glare found

PV array 10 and OP 28

No glare found

PV array 10 and OP 29

No glare found

PV array 10 and OP 30

No glare found

PV array 10 and OP 31

No glare found

PV array 10 and OP 32

No glare found

PV array 10 and OP 33

No glare found

PV: PV array 15 no glare found

Receptor results ordered by category of glare

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

PV array 15 and Route: Avenue Road

No glare found

PV array 15 and Route: Main Camp Road

No glare found

PV array 15 and OP 1

No glare found

PV array 15 and OP 2

No glare found

PV array 15 and OP 3

No glare found

PV array 15 and OP 4

No glare found

PV array 15 and OP 5

No glare found

PV array 15 and OP 6

No glare found

PV array 15 and OP 7

No glare found

PV array 15 and OP 8

No glare found

PV array 15 and OP 9

No glare found

PV array 15 and OP 10

No glare found

PV array 15 and OP 11

No glare found

PV array 15 and OP 12

No glare found

PV array 15 and OP 13

No glare found

PV array 15 and OP 14

No glare found

PV array 15 and OP 15

No glare found

PV array 15 and OP 16

No glare found

PV array 15 and OP 17

No glare found

PV array 15 and OP 18

No glare found

PV array 15 and OP 19

No glare found

PV array 15 and OP 20

No glare found

PV array 15 and OP 21

No glare found

PV array 15 and OP 22

No glare found

PV array 15 and OP 23

No glare found

PV array 15 and OP 24

No glare found

PV array 15 and OP 25

No glare found

PV array 15 and OP 26

No glare found

PV array 15 and OP 27

No glare found

PV array 15 and OP 28

No glare found

PV array 15 and OP 29

No glare found

PV array 15 and OP 30

No glare found

PV array 15 and OP 31

No glare found

PV array 15 and OP 32

No glare found

PV array 15 and OP 33

No glare found

PV: PV array 16 no glare found

Receptor results ordered by category of glare

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

PV array 16 and Route: Avenue Road

No glare found

PV array 16 and Route: Main Camp Road

No glare found

PV array 16 and OP 1

No glare found

PV array 16 and OP 2

No glare found

PV array 16 and OP 3

No glare found

PV array 16 and OP 4

No glare found

PV array 16 and OP 5

No glare found

PV array 16 and OP 6

No glare found

PV array 16 and OP 7

No glare found

PV array 16 and OP 8

No glare found

PV array 16 and OP 9

No glare found

PV array 16 and OP 10

No glare found

PV array 16 and OP 11

No glare found

PV array 16 and OP 12

No glare found

PV array 16 and OP 13

No glare found

PV array 16 and OP 14

No glare found

PV array 16 and OP 15

No glare found

PV array 16 and OP 16

No glare found

PV array 16 and OP 17

No glare found

PV array 16 and OP 18

No glare found

PV array 16 and OP 19

No glare found

PV array 16 and OP 20

No glare found

PV array 16 and OP 21

No glare found

PV array 16 and OP 22

No glare found

PV array 16 and OP 23

No glare found

PV array 16 and OP 24

No glare found

PV array 16 and OP 25

No glare found

PV array 16 and OP 26

No glare found

PV array 16 and OP 27

No glare found

PV array 16 and OP 28

No glare found

PV array 16 and OP 29

No glare found

PV array 16 and OP 30

No glare found

PV array 16 and OP 31

No glare found

PV array 16 and OP 32

No glare found

PV array 16 and OP 33

No glare found

PV: PV array 17 no glare found

Receptor results ordered by category of glare

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

PV array 17 and Route: Avenue Road

No glare found

PV array 17 and Route: Main Camp Road

No glare found

PV array 17 and OP 1

No glare found

PV array 17 and OP 2

No glare found

PV array 17 and OP 3

No glare found

PV array 17 and OP 4

No glare found

PV array 17 and OP 5

No glare found

PV array 17 and OP 6

No glare found

PV array 17 and OP 7

No glare found

PV array 17 and OP 8

No glare found

PV array 17 and OP 9

No glare found

PV array 17 and OP 10

No glare found

PV array 17 and OP 11

No glare found

PV array 17 and OP 12

No glare found

PV array 17 and OP 13

No glare found

PV array 17 and OP 14

No glare found

PV array 17 and OP 15

No glare found

PV array 17 and OP 16

No glare found

PV array 17 and OP 17

No glare found

PV array 17 and OP 18

No glare found

PV array 17 and OP 19

No glare found

PV array 17 and OP 20

No glare found

PV array 17 and OP 21

No glare found

PV array 17 and OP 22

No glare found

PV array 17 and OP 23

No glare found

PV array 17 and OP 24

No glare found

PV array 17 and OP 25

No glare found

PV array 17 and OP 26

No glare found

PV array 17 and OP 27

No glare found

PV array 17 and OP 28

No glare found

PV array 17 and OP 29

No glare found

PV array 17 and OP 30

No glare found

PV array 17 and OP 31

No glare found

PV array 17 and OP 32

No glare found

PV array 17 and OP 33

No glare found

PV: PV array 18 no glare found

Receptor results ordered by category of glare

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

PV array 18 and Route: Avenue Road

No glare found

PV array 18 and Route: Main Camp Road

No glare found

PV array 18 and OP 1

No glare found

PV array 18 and OP 2

No glare found

PV array 18 and OP 3

No glare found

PV array 18 and OP 4

No glare found

PV array 18 and OP 5

No glare found

PV array 18 and OP 6

No glare found

PV array 18 and OP 7

No glare found

PV array 18 and OP 8

No glare found

PV array 18 and OP 9

No glare found

PV array 18 and OP 10

No glare found

PV array 18 and OP 11

No glare found

PV array 18 and OP 12

No glare found

PV array 18 and OP 13

No glare found

PV array 18 and OP 14

No glare found

PV array 18 and OP 15

No glare found

PV array 18 and OP 16

No glare found

PV array 18 and OP 17

No glare found

PV array 18 and OP 18

No glare found

PV array 18 and OP 19

No glare found

PV array 18 and OP 20

No glare found

PV array 18 and OP 21

No glare found

PV array 18 and OP 22

No glare found

PV array 18 and OP 23

No glare found

PV array 18 and OP 24

No glare found

PV array 18 and OP 25

No glare found

PV array 18 and OP 26

No glare found

PV array 18 and OP 27

No glare found

PV array 18 and OP 28

No glare found

PV array 18 and OP 29

No glare found

PV array 18 and OP 30

No glare found

PV array 18 and OP 31

No glare found

PV array 18 and OP 32

No glare found

PV array 18 and OP 33

No glare found

PV: PV array 19 no glare found

Receptor results ordered by category of glare

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

PV array 19 and Route: Avenue Road

No glare found

PV array 19 and Route: Main Camp Road

No glare found

PV array 19 and OP 1

No glare found

PV array 19 and OP 2

No glare found

PV array 19 and OP 3

No glare found

PV array 19 and OP 4

No glare found

PV array 19 and OP 5

No glare found

PV array 19 and OP 6

No glare found

PV array 19 and OP 7

No glare found

PV array 19 and OP 8

No glare found

PV array 19 and OP 9

No glare found

PV array 19 and OP 10

No glare found

PV array 19 and OP 11

No glare found

PV array 19 and OP 12

No glare found

PV array 19 and OP 13

No glare found

PV array 19 and OP 14

No glare found

PV array 19 and OP 15

No glare found

PV array 19 and OP 16

No glare found

PV array 19 and OP 17

No glare found

PV array 19 and OP 18

No glare found

PV array 19 and OP 19

No glare found

PV array 19 and OP 20

No glare found

PV array 19 and OP 21

No glare found

PV array 19 and OP 22

No glare found

PV array 19 and OP 23

No glare found

PV array 19 and OP 24

No glare found

PV array 19 and OP 25

No glare found

PV array 19 and OP 26

No glare found

PV array 19 and OP 27

No glare found

PV array 19 and OP 28

No glare found

PV array 19 and OP 29

No glare found

PV array 19 and OP 30

No glare found

PV array 19 and OP 31

No glare found

PV array 19 and OP 32

No glare found

PV array 19 and OP 33

No glare found

PV: PV array 2 no glare found

Receptor results ordered by category of glare

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

PV array 2 and Route: Avenue Road

No glare found

PV array 2 and Route: Main Camp Road

No glare found

PV array 2 and OP 1

No glare found

PV array 2 and OP 2

No glare found

PV array 2 and OP 3

No glare found

PV array 2 and OP 4

No glare found

PV array 2 and OP 5

No glare found

PV array 2 and OP 6

No glare found

PV array 2 and OP 7

No glare found

PV array 2 and OP 8

No glare found

PV array 2 and OP 9

No glare found

PV array 2 and OP 10

No glare found

PV array 2 and OP 11

No glare found

PV array 2 and OP 12

No glare found

PV array 2 and OP 13

No glare found

PV array 2 and OP 14

No glare found

PV array 2 and OP 15

No glare found

PV array 2 and OP 16

No glare found

PV array 2 and OP 17

No glare found

PV array 2 and OP 18

No glare found

PV array 2 and OP 19

No glare found

PV array 2 and OP 20

No glare found

PV array 2 and OP 21

No glare found

PV array 2 and OP 22

No glare found

PV array 2 and OP 23

No glare found

PV array 2 and OP 24

No glare found

PV array 2 and OP 25

No glare found

PV array 2 and OP 26

No glare found

PV array 2 and OP 27

No glare found

PV array 2 and OP 28

No glare found

PV array 2 and OP 29

No glare found

PV array 2 and OP 30

No glare found

PV array 2 and OP 31

No glare found

PV array 2 and OP 32

No glare found

PV array 2 and OP 33

No glare found

PV: PV array 20 no glare found

Receptor results ordered by category of glare

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

PV array 20 and Route: Avenue Road

No glare found

PV array 20 and Route: Main Camp Road

No glare found

PV array 20 and OP 1

No glare found

PV array 20 and OP 2

No glare found

PV array 20 and OP 3

No glare found

PV array 20 and OP 4

No glare found

PV array 20 and OP 5

No glare found

PV array 20 and OP 6

No glare found

PV array 20 and OP 7

No glare found

PV array 20 and OP 8

No glare found

PV array 20 and OP 9

No glare found

PV array 20 and OP 10

No glare found

PV array 20 and OP 11

No glare found

PV array 20 and OP 12

No glare found

PV array 20 and OP 13

No glare found

PV array 20 and OP 14

No glare found

PV array 20 and OP 15

No glare found

PV array 20 and OP 16

No glare found

PV array 20 and OP 17

No glare found

PV array 20 and OP 18

No glare found

PV array 20 and OP 19

No glare found

PV array 20 and OP 20

No glare found

PV array 20 and OP 21

No glare found

PV array 20 and OP 22

No glare found

PV array 20 and OP 23

No glare found

PV array 20 and OP 24

No glare found

PV array 20 and OP 25

No glare found

PV array 20 and OP 26

No glare found

PV array 20 and OP 27

No glare found

PV array 20 and OP 28

No glare found

PV array 20 and OP 29

No glare found

PV array 20 and OP 30

No glare found

PV array 20 and OP 31

No glare found

PV array 20 and OP 32

No glare found

PV array 20 and OP 33

No glare found

PV: PV array 21 no glare found

Receptor results ordered by category of glare

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

PV array 21 and Route: Avenue Road

No glare found

PV array 21 and Route: Main Camp Road

No glare found

PV array 21 and OP 1

No glare found

PV array 21 and OP 2

No glare found

PV array 21 and OP 3

No glare found

PV array 21 and OP 4

No glare found

PV array 21 and OP 5

No glare found

PV array 21 and OP 6

No glare found

PV array 21 and OP 7

No glare found

PV array 21 and OP 8

No glare found

PV array 21 and OP 9

No glare found

PV array 21 and OP 10

No glare found

PV array 21 and OP 11

No glare found

PV array 21 and OP 12

No glare found

PV array 21 and OP 13

No glare found

PV array 21 and OP 14

No glare found

PV array 21 and OP 15

No glare found

PV array 21 and OP 16

No glare found

PV array 21 and OP 17

No glare found

PV array 21 and OP 18

No glare found

PV array 21 and OP 19

No glare found

PV array 21 and OP 20

No glare found

PV array 21 and OP 21

No glare found

PV array 21 and OP 22

No glare found

PV array 21 and OP 23

No glare found

PV array 21 and OP 24

No glare found

PV array 21 and OP 25

No glare found

PV array 21 and OP 26

No glare found

PV array 21 and OP 27

No glare found

PV array 21 and OP 28

No glare found

PV array 21 and OP 29

No glare found

PV array 21 and OP 30

No glare found

PV array 21 and OP 31

No glare found

PV array 21 and OP 32

No glare found

PV array 21 and OP 33

No glare found

PV: PV array 22 no glare found

Receptor results ordered by category of glare

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

PV array 22 and Route: Avenue Road

No glare found

PV array 22 and Route: Main Camp Road

No glare found

PV array 22 and OP 1

No glare found

PV array 22 and OP 2

No glare found

PV array 22 and OP 3

No glare found

PV array 22 and OP 4

No glare found

PV array 22 and OP 5

No glare found

PV array 22 and OP 6

No glare found

PV array 22 and OP 7

No glare found

PV array 22 and OP 8

No glare found

PV array 22 and OP 9

No glare found

PV array 22 and OP 10

No glare found

PV array 22 and OP 11

No glare found

PV array 22 and OP 12

No glare found

PV array 22 and OP 13

No glare found

PV array 22 and OP 14

No glare found

PV array 22 and OP 15

No glare found

PV array 22 and OP 16

No glare found

PV array 22 and OP 17

No glare found

PV array 22 and OP 18

No glare found

PV array 22 and OP 19

No glare found

PV array 22 and OP 20

No glare found

PV array 22 and OP 21

No glare found

PV array 22 and OP 22

No glare found

PV array 22 and OP 23

No glare found

PV array 22 and OP 24

No glare found

PV array 22 and OP 25

No glare found

PV array 22 and OP 26

No glare found

PV array 22 and OP 27

No glare found

PV array 22 and OP 28

No glare found

PV array 22 and OP 29

No glare found

PV array 22 and OP 30

No glare found

PV array 22 and OP 31

No glare found

PV array 22 and OP 32

No glare found

PV array 22 and OP 33

No glare found

PV: PV array 23 no glare found

Receptor results ordered by category of glare

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

PV array 23 and Route: Avenue Road

No glare found

PV array 23 and Route: Main Camp Road

No glare found

PV array 23 and OP 1

No glare found

PV array 23 and OP 2

No glare found

PV array 23 and OP 3

No glare found

PV array 23 and OP 4

No glare found

PV array 23 and OP 5

No glare found

PV array 23 and OP 6

No glare found

PV array 23 and OP 7

No glare found

PV array 23 and OP 8

No glare found

PV array 23 and OP 9

No glare found

PV array 23 and OP 10

No glare found

PV array 23 and OP 11

No glare found

PV array 23 and OP 12

No glare found

PV array 23 and OP 13

No glare found

PV array 23 and OP 14

No glare found

PV array 23 and OP 15

No glare found

PV array 23 and OP 16

No glare found

PV array 23 and OP 17

No glare found

PV array 23 and OP 18

No glare found

PV array 23 and OP 19

No glare found

PV array 23 and OP 20

No glare found

PV array 23 and OP 21

No glare found

PV array 23 and OP 22

No glare found

PV array 23 and OP 23

No glare found

PV array 23 and OP 24

No glare found

PV array 23 and OP 25

No glare found

PV array 23 and OP 26

No glare found

PV array 23 and OP 27

No glare found

PV array 23 and OP 28

No glare found

PV array 23 and OP 29

No glare found

PV array 23 and OP 30

No glare found

PV array 23 and OP 31

No glare found

PV array 23 and OP 32

No glare found

PV array 23 and OP 33

No glare found

PV: PV array 3 no glare found

Receptor results ordered by category of glare

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

PV array 3 and Route: Avenue Road

No glare found

PV array 3 and Route: Main Camp Road

No glare found

PV array 3 and OP 1

No glare found

PV array 3 and OP 2

No glare found

PV array 3 and OP 3

No glare found

PV array 3 and OP 4

No glare found

PV array 3 and OP 5

No glare found

PV array 3 and OP 6

No glare found

PV array 3 and OP 7

No glare found

PV array 3 and OP 8

No glare found

PV array 3 and OP 9

No glare found

PV array 3 and OP 10

No glare found

PV array 3 and OP 11

No glare found

PV array 3 and OP 12

No glare found

PV array 3 and OP 13

No glare found

PV array 3 and OP 14

No glare found

PV array 3 and OP 15

No glare found

PV array 3 and OP 16

No glare found

PV array 3 and OP 17

No glare found

PV array 3 and OP 18

No glare found

PV array 3 and OP 19

No glare found

PV array 3 and OP 20

No glare found

PV array 3 and OP 21

No glare found

PV array 3 and OP 22

No glare found

PV array 3 and OP 23

No glare found

PV array 3 and OP 24

No glare found

PV array 3 and OP 25

No glare found

PV array 3 and OP 26

No glare found

PV array 3 and OP 27

No glare found

PV array 3 and OP 28

No glare found

PV array 3 and OP 29

No glare found

PV array 3 and OP 30

No glare found

PV array 3 and OP 31

No glare found

PV array 3 and OP 32

No glare found

PV array 3 and OP 33

No glare found

PV: PV array 4 no glare found

Receptor results ordered by category of glare

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

PV array 4 and Route: Avenue Road

No glare found

PV array 4 and Route: Main Camp Road

No glare found

PV array 4 and OP 1

No glare found

PV array 4 and OP 2

No glare found

PV array 4 and OP 3

No glare found

PV array 4 and OP 4

No glare found

PV array 4 and OP 5

No glare found

PV array 4 and OP 6

No glare found

PV array 4 and OP 7

No glare found

PV array 4 and OP 8

No glare found

PV array 4 and OP 9

No glare found

PV array 4 and OP 10

No glare found

PV array 4 and OP 11

No glare found

PV array 4 and OP 12

No glare found

PV array 4 and OP 13

No glare found

PV array 4 and OP 14

No glare found

PV array 4 and OP 15

No glare found

PV array 4 and OP 16

No glare found

PV array 4 and OP 17

No glare found

PV array 4 and OP 18

No glare found

PV array 4 and OP 19

No glare found

PV array 4 and OP 20

No glare found

PV array 4 and OP 21

No glare found

PV array 4 and OP 22

No glare found

PV array 4 and OP 23

No glare found

PV array 4 and OP 24

No glare found

PV array 4 and OP 25

No glare found

PV array 4 and OP 26

No glare found

PV array 4 and OP 27

No glare found

PV array 4 and OP 28

No glare found

PV array 4 and OP 29

No glare found

PV array 4 and OP 30

No glare found

PV array 4 and OP 31

No glare found

PV array 4 and OP 32

No glare found

PV array 4 and OP 33

No glare found

PV: PV array 5 no glare found

Receptor results ordered by category of glare

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

PV array 5 and Route: Avenue Road

No glare found

PV array 5 and Route: Main Camp Road

No glare found

PV array 5 and OP 1

No glare found

PV array 5 and OP 2

No glare found

PV array 5 and OP 3

No glare found

PV array 5 and OP 4

No glare found

PV array 5 and OP 5

No glare found

PV array 5 and OP 6

No glare found

PV array 5 and OP 7

No glare found

PV array 5 and OP 8

No glare found

PV array 5 and OP 9

No glare found

PV array 5 and OP 10

No glare found

PV array 5 and OP 11

No glare found

PV array 5 and OP 12

No glare found

PV array 5 and OP 13

No glare found

PV array 5 and OP 14

No glare found

PV array 5 and OP 15

No glare found

PV array 5 and OP 16

No glare found

PV array 5 and OP 17

No glare found

PV array 5 and OP 18

No glare found

PV array 5 and OP 19

No glare found

PV array 5 and OP 20

No glare found

PV array 5 and OP 21

No glare found

PV array 5 and OP 22

No glare found

PV array 5 and OP 23

No glare found

PV array 5 and OP 24

No glare found

PV array 5 and OP 25

No glare found

PV array 5 and OP 26

No glare found

PV array 5 and OP 27

No glare found

PV array 5 and OP 28

No glare found

PV array 5 and OP 29

No glare found

PV array 5 and OP 30

No glare found

PV array 5 and OP 31

No glare found

PV array 5 and OP 32

No glare found

PV array 5 and OP 33

No glare found

PV: PV array 6 no glare found

Receptor results ordered by category of glare

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

PV array 6 and Route: Avenue Road

No glare found

PV array 6 and Route: Main Camp Road

No glare found

PV array 6 and OP 1

No glare found

PV array 6 and OP 2

No glare found

PV array 6 and OP 3

No glare found

PV array 6 and OP 4

No glare found

PV array 6 and OP 5

No glare found

PV array 6 and OP 6

No glare found

PV array 6 and OP 7

No glare found

PV array 6 and OP 8

No glare found

PV array 6 and OP 9

No glare found

PV array 6 and OP 10

No glare found

PV array 6 and OP 11

No glare found

PV array 6 and OP 12

No glare found

PV array 6 and OP 13

No glare found

PV array 6 and OP 14

No glare found

PV array 6 and OP 15

No glare found

PV array 6 and OP 16

No glare found

PV array 6 and OP 17

No glare found

PV array 6 and OP 18

No glare found

PV array 6 and OP 19

No glare found

PV array 6 and OP 20

No glare found

PV array 6 and OP 21

No glare found

PV array 6 and OP 22

No glare found

PV array 6 and OP 23

No glare found

PV array 6 and OP 24

No glare found

PV array 6 and OP 25

No glare found

PV array 6 and OP 26

No glare found

PV array 6 and OP 27

No glare found

PV array 6 and OP 28

No glare found

PV array 6 and OP 29

No glare found

PV array 6 and OP 30

No glare found

PV array 6 and OP 31

No glare found

PV array 6 and OP 32

No glare found

PV array 6 and OP 33

No glare found

PV: PV array 7 no glare found

Receptor results ordered by category of glare

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

PV array 7 and Route: Avenue Road

No glare found

PV array 7 and Route: Main Camp Road

No glare found

PV array 7 and OP 1

No glare found

PV array 7 and OP 2

No glare found

PV array 7 and OP 3

No glare found

PV array 7 and OP 4

No glare found

PV array 7 and OP 5

No glare found

PV array 7 and OP 6

No glare found

PV array 7 and OP 7

No glare found

PV array 7 and OP 8

No glare found

PV array 7 and OP 9

No glare found

PV array 7 and OP 10

No glare found

PV array 7 and OP 11

No glare found

PV array 7 and OP 12

No glare found

PV array 7 and OP 13

No glare found

PV array 7 and OP 14

No glare found

PV array 7 and OP 15

No glare found

PV array 7 and OP 16

No glare found

PV array 7 and OP 17

No glare found

PV array 7 and OP 18

No glare found

PV array 7 and OP 19

No glare found

PV array 7 and OP 20

No glare found

PV array 7 and OP 21

No glare found

PV array 7 and OP 22

No glare found

PV array 7 and OP 23

No glare found

PV array 7 and OP 24

No glare found

PV array 7 and OP 25

No glare found

PV array 7 and OP 26

No glare found

PV array 7 and OP 27

No glare found

PV array 7 and OP 28

No glare found

PV array 7 and OP 29

No glare found

PV array 7 and OP 30

No glare found

PV array 7 and OP 31

No glare found

PV array 7 and OP 32

No glare found

PV array 7 and OP 33

No glare found

PV: PV array 8 no glare found

Receptor results ordered by category of glare

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

PV array 8 and Route: Avenue Road

No glare found

PV array 8 and Route: Main Camp Road

No glare found

PV array 8 and OP 1

No glare found

PV array 8 and OP 2

No glare found

PV array 8 and OP 3

No glare found

PV array 8 and OP 4

No glare found

PV array 8 and OP 5

No glare found

PV array 8 and OP 6

No glare found

PV array 8 and OP 7

No glare found

PV array 8 and OP 8

No glare found

PV array 8 and OP 9

No glare found

PV array 8 and OP 10

No glare found

PV array 8 and OP 11

No glare found

PV array 8 and OP 12

No glare found

PV array 8 and OP 13

No glare found

PV array 8 and OP 14

No glare found

PV array 8 and OP 15

No glare found

PV array 8 and OP 16

No glare found

PV array 8 and OP 17

No glare found

PV array 8 and OP 18

No glare found

PV array 8 and OP 19

No glare found

PV array 8 and OP 20

No glare found

PV array 8 and OP 21

No glare found

PV array 8 and OP 22

No glare found

PV array 8 and OP 23

No glare found

PV array 8 and OP 24

No glare found

PV array 8 and OP 25

No glare found

PV array 8 and OP 26

No glare found

PV array 8 and OP 27

No glare found

PV array 8 and OP 28

No glare found

PV array 8 and OP 29

No glare found

PV array 8 and OP 30

No glare found

PV array 8 and OP 31

No glare found

PV array 8 and OP 32

No glare found

PV array 8 and OP 33

No glare found

PV: PV array 9 no glare found

Receptor results ordered by category of glare

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

PV array 9 and Route: Avenue Road

No glare found

PV array 9 and Route: Main Camp Road

No glare found

PV array 9 and OP 1

No glare found

PV array 9 and OP 2

No glare found

PV array 9 and OP 3

No glare found

PV array 9 and OP 4

No glare found

PV array 9 and OP 5

No glare found

PV array 9 and OP 6

No glare found

PV array 9 and OP 7

No glare found

PV array 9 and OP 8

No glare found

PV array 9 and OP 9

No glare found

PV array 9 and OP 10

No glare found

PV array 9 and OP 11

No glare found

PV array 9 and OP 12

No glare found

PV array 9 and OP 13

No glare found

PV array 9 and OP 14

No glare found

PV array 9 and OP 15

No glare found

PV array 9 and OP 16

No glare found

PV array 9 and OP 17

No glare found

PV array 9 and OP 18

No glare found

PV array 9 and OP 19

No glare found

PV array 9 and OP 20

No glare found

PV array 9 and OP 21

No glare found

PV array 9 and OP 22

No glare found

PV array 9 and OP 23

No glare found

PV array 9 and OP 24

No glare found

PV array 9 and OP 25

No glare found

PV array 9 and OP 26

No glare found

PV array 9 and OP 27

No glare found

PV array 9 and OP 28

No glare found

PV array 9 and OP 29

No glare found

PV array 9 and OP 30

No glare found

PV array 9 and OP 31

No glare found

PV array 9 and OP 32

No glare found

PV array 9 and OP 33

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.
Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.
Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.
The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.
The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.
The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.
The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
Refer to the Help page at **www.forgesolar.com/help/** for assumptions and limitations not listed here.

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

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

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