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Visual Resource Assessment and Mitigation Plan

Wood Duck Solar Project

May 2023



Document Information

Prepared for	Geenex Solar
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Date	May 2023

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Acronyms

AC	Alternating Current
DC	Direct Current
DSM	Digital Surface Model
GPS	Global Positioning System
LT	Landscape Type
MW	Megawatt
NHL	National Historic Landmarks
NLCD	National Land Cover Database
NRHP	National Register of Historic Places
PV	Photovoltaic
SRHP	Sate Register of Historic Places
VRA	Visual Resource Assessment
VSA	Visual Study Area
VSR	Visually Sensitive Resource

1 Introduction

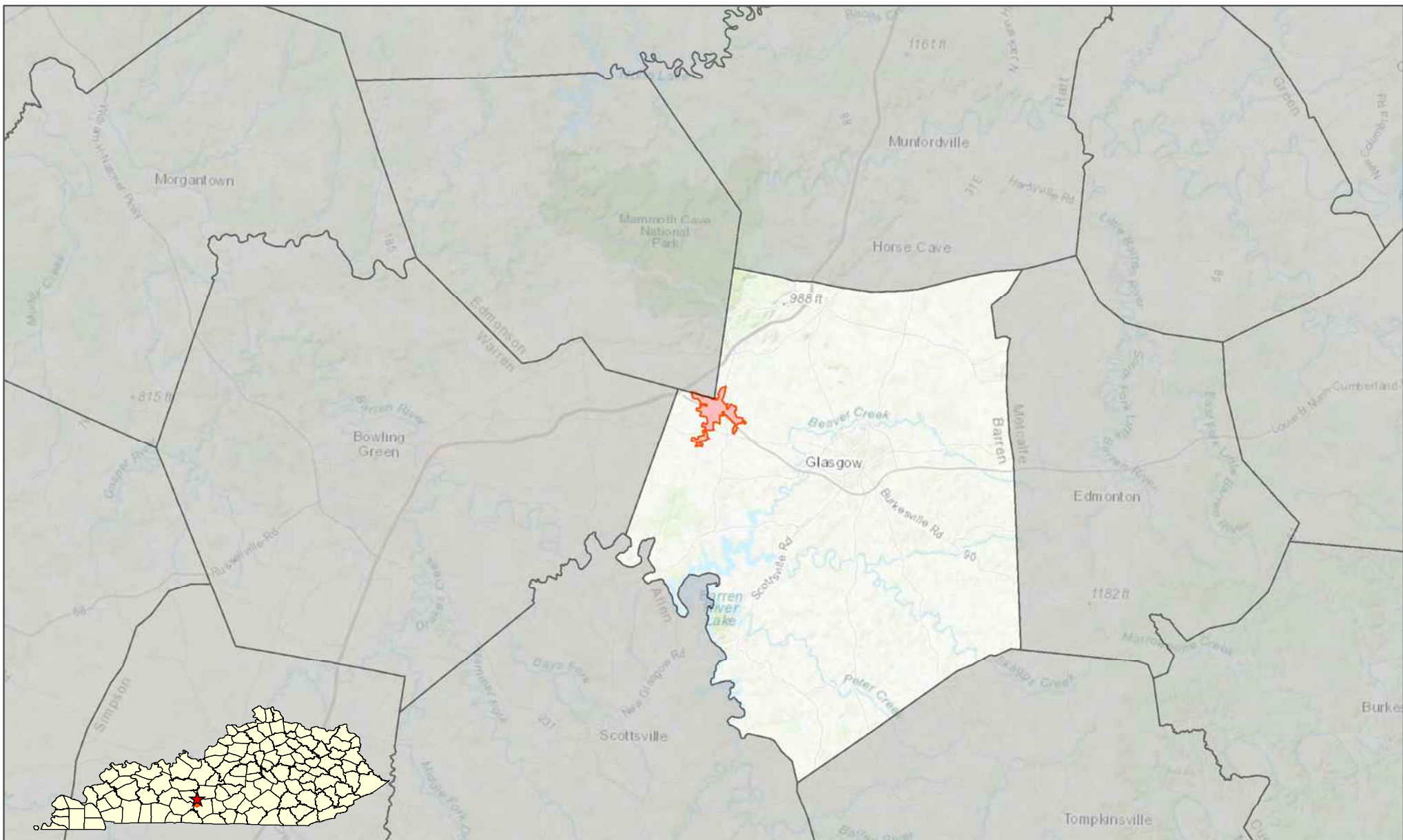
1.1 Purpose of the Investigation

At the request of Wood Duck Solar Project, LLC (Wood Duck), Stantec has prepared this Visual Resource Assessment (VRA) in support of the Wood Duck Solar Project (Project) located near Glasgow, in Barren County, Kentucky (Figure 1-1).

This study has been conducted to identify and assess the Visually Sensitive Resources (VSRs), project visibility, and potential visual impacts resulting from construction of the proposed solar-powered electric generation facility.

The VRA includes the following:

- > Description of the visible components of the proposed Project;
- > Definition of the visual character of the Visual Study Area (VSA);
- > Inventory and evaluation of the existing Visually Sensitive Resources (VSRs) within the VSA;
- > Evaluation of the potential visibility of the Project within the VSA;
- > Photographic simulations of the proposed Project from select locations;
- > Assessment of the visual impacts associated with the Project; and
- > Description of measures proposed to minimize visual impact.



 Project Area

7.5' Quadrangles
PLSS: unsectioned

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1-1: Project Location - US Topographic

Visual Resource Assessment for the Wood Duck Energy Project

Wood Duck Solar, LLC

Barren County, Kentucky

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1.2 Project Location and Description

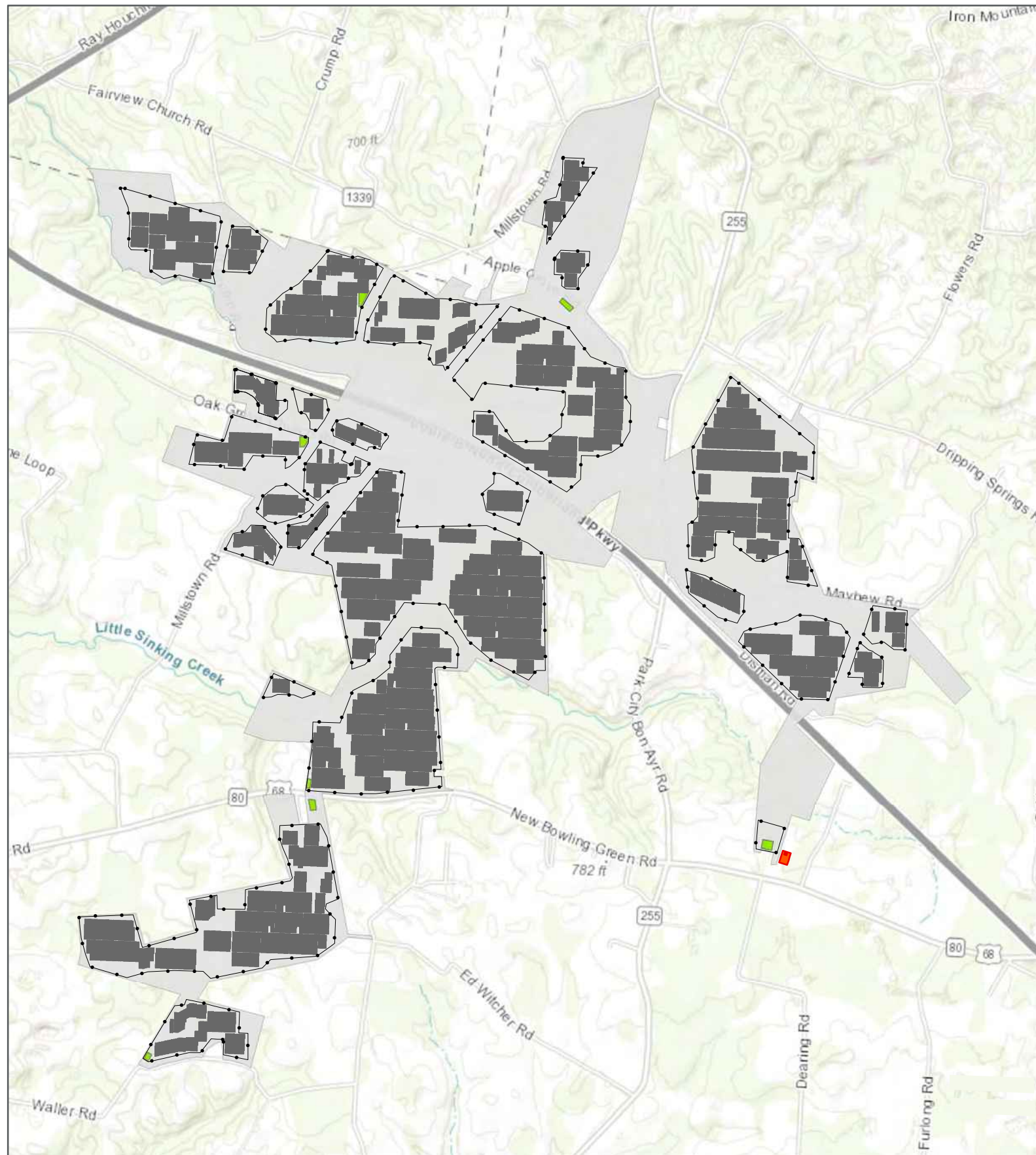
The Project is located to the immediate northeast of Glasgow, in Barren County, Kentucky. It is bisected by the Cumberland Parkway which runs northeast/southwest through the Project Area, and by Highway 68, which also runs east/west through the Project Area.

At the time of this study, the total acreage of the privately-owned parcels within which the planned Project is 1,920.3-acres (Study Area), but only 1126.7 acres are expected to be occupied by project components (Project Area). The land use within and immediately adjacent to the Project Area consists primarily of agricultural and forested land.

The proposed Project is a solar power electric generation facility with a generating capacity up to 100 megawatts (MW) alternating current (AC). The Project will include the installation of single-axis tracking solar panel arrays mounted on support piles that are driven into the ground. Additionally, a collection substation will be constructed, which will collect the generated electricity and increase the voltage for transfer to the electric transmission grid. Inverters will be installed to convert the generated electricity from direct current to alternating current, which will be transferred to the collection substation via buried collection lines. Groupings of facility infrastructure will be surrounded by fencing for safety and security. Gravel covered permanent access roads will be constructed to provide access to solar array components for the use by maintenance crews and emergency services. The preliminary locations of the proposed major Project components are illustrated in Figure 1-2.

1.2.1 Visual Study Area

Traditionally, a VRA may be prepared to evaluate the visual impacts to recreational, scenic, and historic resources from a proposed generating facility within a 10-mile radius; however, a 10-mile radius is an excessive size for a study area for this assessment due to the low profile of the proposed Project components and the results of the visibility analysis presented in this report. In order to determine a more appropriately sized study area, a viewshed analysis was conducted to better understand the Project's area of potential effect. The viewshed analysis indicated that areas of potential Project visibility do not extend beyond 5-miles, with only discrete corridors and pockets of visibility extending beyond 0.5-miles from the Project. As such, it was determined that a 5-mile radius around the Project would be a more than sufficient study area for the purposes of this assessment. The Visual Study Area (VSA) encompasses approximately 143.6 square miles and is located primarily within Barren County. The location and extent of the VSA is illustrated in Figure 1-3.



7.5' Quadrangles

PLSS: unsectioned

1-2: Preliminary Project Layout Map

Visual Resource Assessment for the Wood Duck Energy Project

Wood Duck Solar, LLC

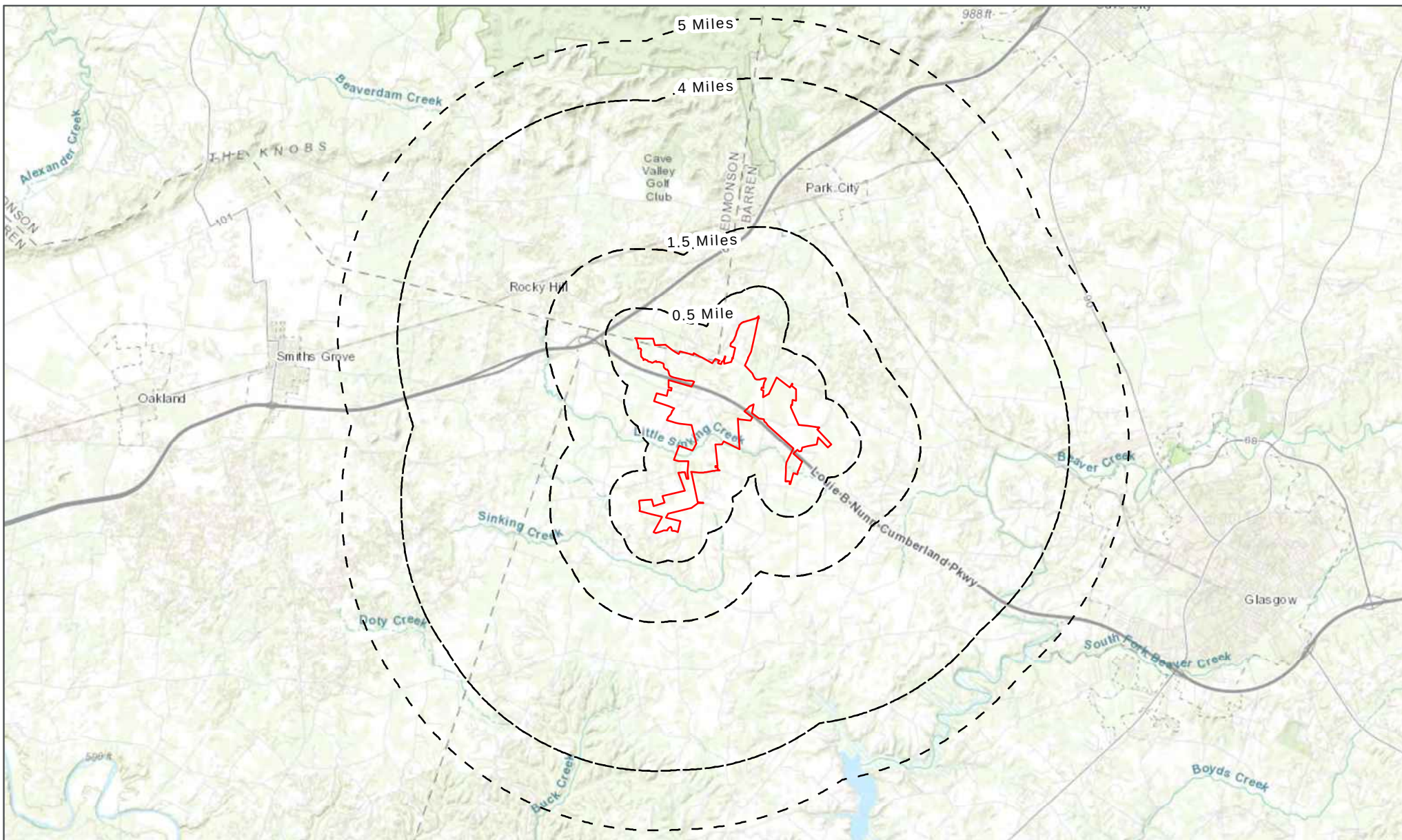
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Basemap: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

GIS Analyst: swaltman



0 1 2 3 4 Miles
0 2 4 6 Kilometers

Project Area
- - Visibility Range Rings

7.5' Quadrangles

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1-3 Visual Study Area

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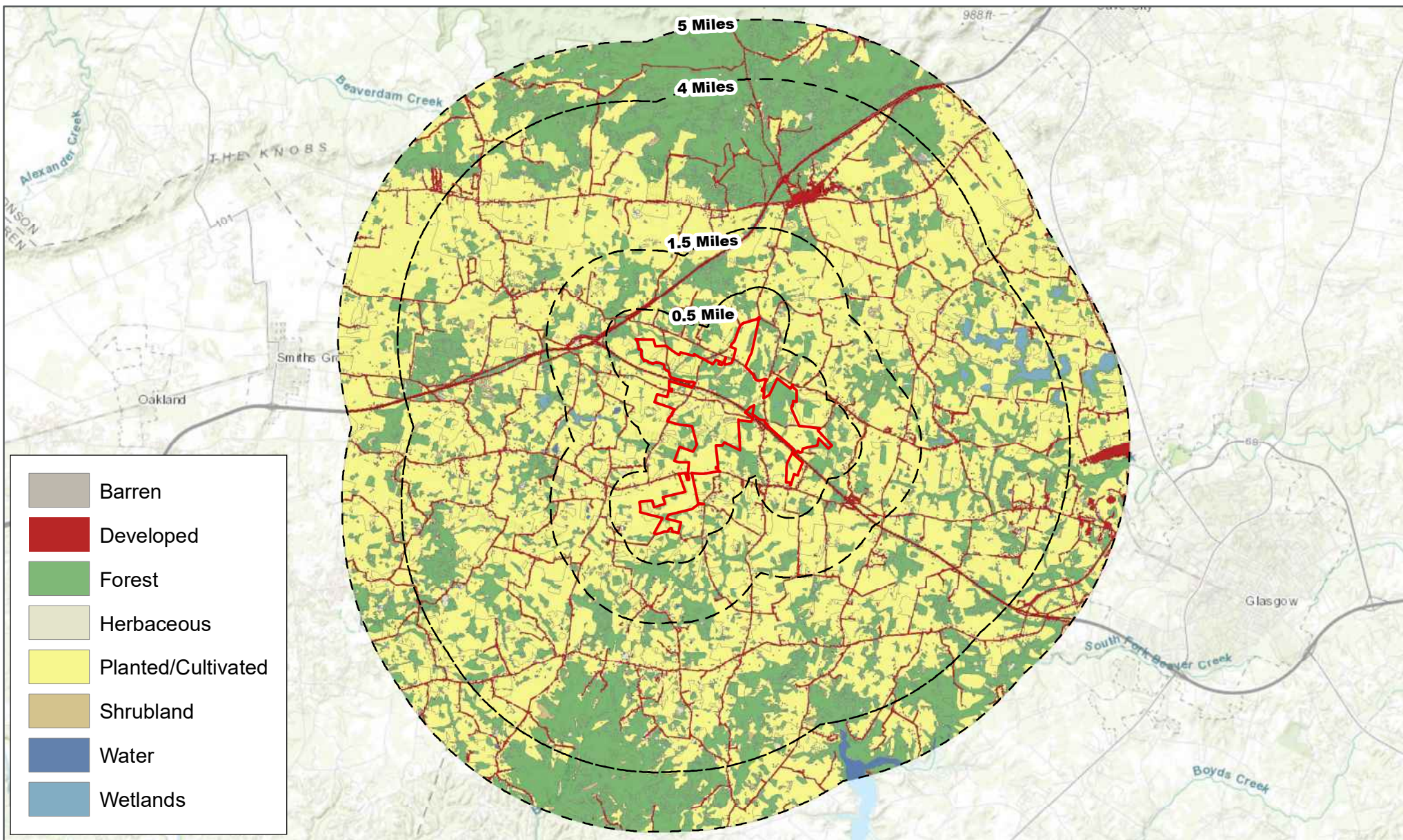
1.2.2 Landscape Character

The land use and landscape community types within the VSA are based on data provided by the Multi-Resolution Land Characteristics Consortium (MRLC) from the 2019 National Land Cover Database, amended 2019 (MRLC 2019). Understanding the landscape types (LTs) within the VSA provides the framework for analyzing the potential visual effects of the Project. These LTs were categorized based on the similarity of various features, including landform, vegetation, and/or land use patterns. The LTs defined within the VSA are presented in Table 1-1 and Figure 1-4.

Table 1-1 Landscape Types within the Visual Study Area

Landscape Type	Total Area of LT within the Visual Study Area (acres)	Total Area within the Visual Study Area (percent)
Planted/Cultivated	55,460.51	60.35%
Forest	28,725.09	31.26%
Developed	6,244.69	6.79%
Wetlands	449.49	0.49%
Shrubland	426.47	0.46%
Water	274.36	0.30%
Herbaceous	261.01	0.28%
Barren	60.49	0.07%
Grand Total	91,902.10	100.00%

The Project components are proposed to be built principally within the Planted/Cultivated LT, which makes up 60.35% of the VSA. The agricultural LT has the greatest opportunity for views of PV panels within the Project Area and vicinity due to the relatively low growing crops and lack of mature vegetation and other screening. The Forest LT makes up 31.26% of the VSA. Views within the Forest LT are typically limited due to the presence of mature trees and dense vegetation. The Developed LT makes up 6.79% of the VSA and includes Park City. The Developed LT typically provides limited outward views due to the presence of buildings and closely situated houses, landscaped yards/planted vegetation, utility poles, and other visual clutter. The Open Water and Wetlands LTs are scattered throughout the VSA and collectively make up only 0.79% of the land area. These LTs are often associated with river or stream corridors, the most notable being the tributaries of Sinking Creek and Beaver Creek, where long distance views are typically limited due to the presence of tree-lined creek banks and adjacent forested slopes.



 Project Area
 Visibility Range Rings

7.5' Quadrangles
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1-4 Landcover Types Within the Visual Study Area Visual Resource Assessment for the Wood Duck Energy Project Wood Duck Solar, LLC Barren County, Kentucky

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1.2.3 Distance Zones

Distance zones are used to divide the VSA into distinct radii around the Project Area that are based on visual receptors that can be perceived by a viewer. Four distance zones have been defined, per agency protocols published by the U.S. Forest Service, Bureau of Land Management and U.S. Department of Transportation, as a guide for identifying distances from which landscape detail can be perceived by a viewer. Using appropriate adjustments associated with Kentucky's landscape types, the following distance zones have been defined for use in this VSA:

- > Near-Foreground: 0 to 0.5 mile. At this distance, a viewer is able to perceive details of an object with clarity. Surface textures, small features, and the full intensity and value of color can be seen on foreground objects.
- > Foreground: 0.5 to 1.5 miles. At this distance, elements in the landscape tend to retain visual distinction, but specific textures become less defined. So larger intact scale landscapes, seamless mosaics of a landscape type, will appear more as a series or a pattern instead of discrete individual landscape components.
- > Middle ground: 1.5 to 4.0 miles. The middle ground is the prevalent distance at which landscapes are seen. At these distances a viewer can recognize trees and individual structures but not in great detail. This is the zone where the parts of the landscape start to merge; individual hills become a range, individual trees merge into a forest, and buildings appear as shapes. Colors will be softened and blended. Contrast in texture between landscape elements will also be decreased.
- > Background: Over 4.0 miles. The background encompasses the general regional landscape within the viewshed. Within this distance zone, the landscape is simplified; little detail is visible, vegetation and non-vegetated areas are seen as blocks of color, and colors are muted by atmospheric haze. Prominent land masses or other regional features (mountains, larger bodies of water, vast tracks of open lands, etc.) and/or the skyline are often the overriding visual characteristics in the background. The background acts as the backdrop for the foreground and middle ground features, creating the basis of the regional scenic quality.

For the purpose of this assessment, the visual conditions described in these distance zones depict potential perspectives for viewers during periods of peak visual clarity, and do not account for variations in environmental factors such as atmospheric conditions, time of day, or background composition/coloration.

The landscape types defined within the distance zones of the VSA are presented in Table 1-2. As can be seen, the most significant landscape type, Planted/Cultivated, is reflective of the agricultural nature of the area. Forest is characteristic of certain areas within the VSA, with density of forested areas in each given location varying as shown on Figure 1-4. Also of note, the Developed LT only makes up an average of approximately 6.79% across all distance zones within the VSA.

Table 1-2 Distance Zones by Landscape Type

Common Name	Total Area (acres) and Percent of Landscape Type in Distance Zone			
	Near-Foreground (0 – 0.5 mile)	Foreground (0.5 – 1.5 miles)	Middle Ground (1.5 – 4.0 miles)	Background (>4.0 miles)
Planted/Cultivated	5,613.57 (68.37%)	8,337.12 (69.14%)	28,242.48 (61.13%)	13,267.34 (52.17%)
Forest	1,864.92 (22.71%)	2,711.02 (22.48%)	14,069.05 (30.45%)	10,080.10 (39.64%)
Developed	673.27 (8.20%)	889.83 (7.38%)	3,063.30 (6.63%)	1,618.29 (6.36%)
Open Water	14.30 (0.17%)	25.08 (0.21%)	56.04 (0.12%)	178.94 (0.70%)
Wetlands	5.03 (0.06%)	24.53 (0.20%)	293.12 (0.63%)	126.80 (0.50%)
Shrubland	26.11 (0.32%)	34.21 (0.28%)	285.64 (0.62%)	80.51 (0.32%)
Grasslands/herbaceous	12.06 (0.15%)	37.10 (0.31%)	155.23 (0.34%)	56.62 (0.22%)
Barren Land	0.89 (0.01%)	0.22 (0.00%)	37.63 (0.08%)	21.74 (0.09%)
Total Distance Zone Area	8,210.15	12,059.11	46,202.50	25,430.35

2 Methodology

2.1 PV Array Viewshed Analysis

Stantec conducted a viewshed analysis to assess the visibility of solar panels within the Project Area. The analysis was conducted using a digital surface model (DSM) derived from the Statewide Imagery Program's (KyFromAbove) 2021 LIDAR data for Barren County and enhanced with Esri ArcGIS® software. Because the specific layout of solar panels is in the preliminary design phase, sample points were placed approximately 400 to 1,000 feet apart along the proposed infrastructure within the Project Area boundary. The sample points were placed at a height of 9 feet to represent the maximum height of the solar panels and the analysis assumed a viewer height of 6 feet. Although the proposed substation and interconnection structures will result in some minimal visual impacts in their immediate vicinity, their location is in close proximity to an existing substation and overhead power line corridor and will comprise a footprint considerably smaller than the proposed solar panels. For these reasons, the DSM did not include these structures.

The viewshed analysis incorporated the screening effects of existing topography, structures, and vegetation within the VSA. This was accomplished by creating a DSM of the VSA from the LIDAR data, which includes the elevations of buildings, trees, and other objects large enough to be resolved by LIDAR technology. Transmission lines that were included in these LIDAR data were removed from the resulting DSM and road centerlines were buffered 50 feet to remove utility lines. LIDAR data for these narrow, vertical landscape features are removed from the DSM to avoid including artificial screening in the analysis. Additionally, vegetation within the fence line was removed, including narrow hedgerows that will be cleared during construction of the Project. This was done to simulate bare-earth elevation.

Although the viewshed analysis provides a useful representation of Project visibility, there are conditions that are not incorporated into the DSM (e.g., color, distance from viewer, and atmospheric/weather conditions). Therefore, being located within the VSA does not reflect actual visibility of the Project.

2.2 Visually Sensitive Resources

Below are the potential VSR categories that may be present within the VSA. In addition, other aesthetic resources were considered for evaluation based on the type of resource, or the prominence within the VSA. Typical VSRs include the following:

- > Landmarks such as districts, sites, buildings, structures, and objects that are recognized by, registered with, or identified as eligible for registration by the national registry of natural landmarks, the state historical preservation office, or the Kentucky Department of Fish & Wildlife
- > Recreation Areas that are any formally adopted land and water recreation areas, recreational trails, scenic rivers, scenic routes, or byways.
- > Registered landmarks of historic, religious, archaeological, scenic, natural, or other cultural significance.
- > Other public areas such as state, US, and Interstate Highways, Schools, Cities, and Villages.

2.3 Field Verification

Stantec conducted a site visit to the Project Area on April 6, 2023, to verify the results of the viewshed analysis, document characteristics of the LTs and existing visual screening, and collect photographs for use in the creation of visual simulations.

The Stantec field team drove public roads throughout the Project Area and collected photographs from 6 individual viewpoints.

2.4 Creation of Visual Simulations

Visual simulations of key components of the proposed Project were developed using a three-dimensional (3D) computer model of the proposed Project infrastructure based on specifications, dimensions, and locations provided by Wood Duck. Camera specifications and global positioning system (GPS) coordinates collected at each photo location were incorporated into the 3D model. Next, the photo was pulled into the model and the scale and perspective of the project components (e.g., fence, panels) were adjusted appropriately.

At viewpoints where vegetative screening is proposed, plantings were added to the simulations to represent conditions at the time of planting. Vegetative screening was illustrated based on the following screening applications that are planned for certain segments of the Project's perimeter. Greater detail of the module composition can be found in the separate landscaping plan prepared for the Project.

- > **Module 1** –Vertical Softening (double row evergreen trees, spaced 15ft on-center): for use in areas of high viewership and visibility potential, but low stationary (residential or recreational) activity occurs. Provides the highest level of screening, for use in areas where stationary adjacent uses and non-participating viewers could be impacted by the installation of Project components.

3 Results

3.1 Viewshed Analysis

3.1.1 PV Array Viewshed Analysis

Potential visibility of the proposed Project is illustrated in Figure 3-1 and results of the analysis are summarized in Table 3-1. The results of the analysis indicate the Project will be screened from approximately 98.3% of the VSA by topography, vegetation, and physical structures.

Table 3-1 PV Array Viewshed Analysis Results

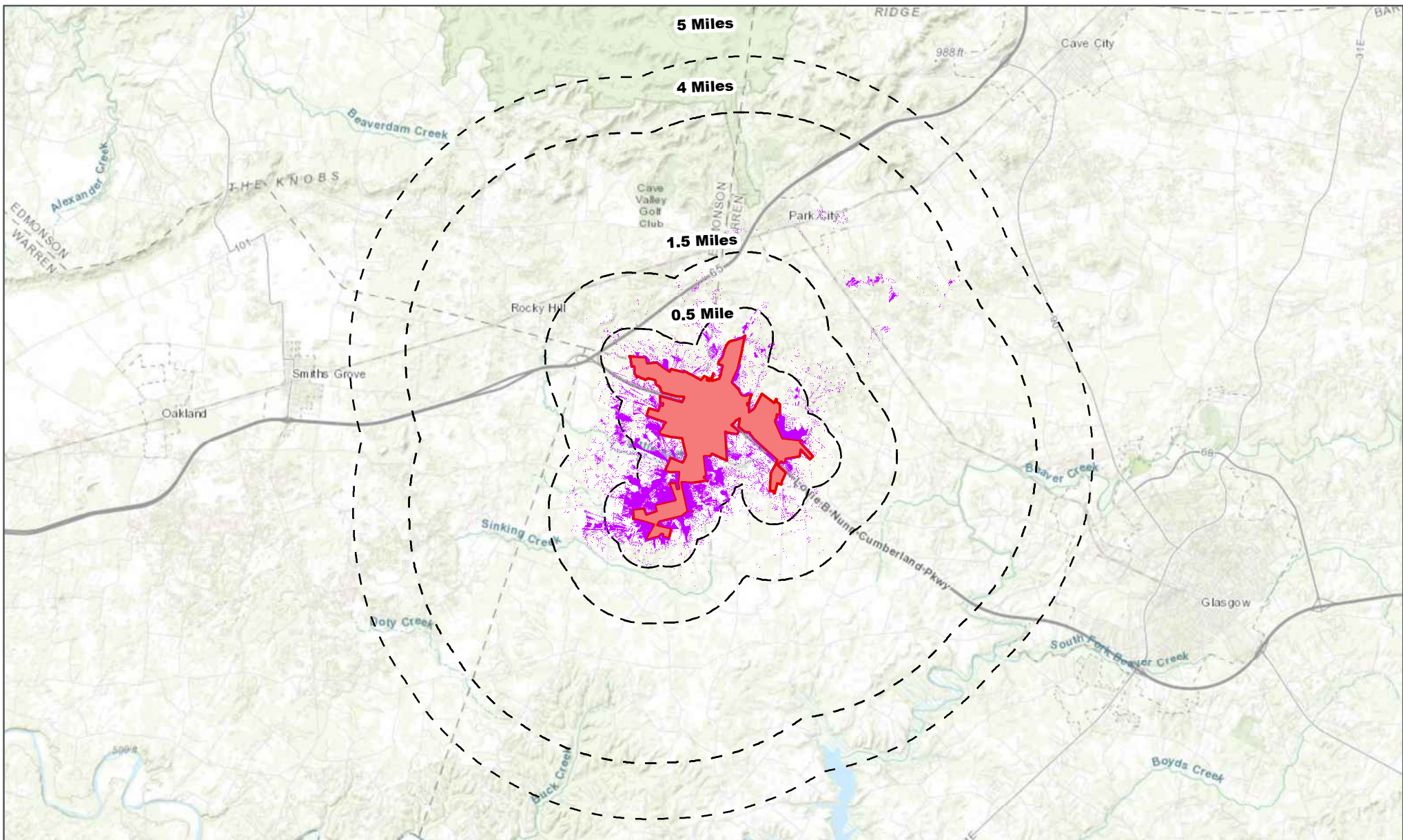
Analysis	VSA	Distance from Project			
		Near-Foreground (0 – 0.5 mile)	Foreground (0.5 – 1.5 mile)	Middle Ground (1.5 – 4.0 mile)	Background (4.0 – 5.0) mile
Total Area	143.6 mi ²	12.83 mi ²	18.84 mi ²	72.19 mi ²	39.73 mi ²
DSM Viewshed Visibility	2.47mi ² (1.72%)	2.16 mi ² (1.5%)	0.25 mi ² (0.18%)	0.07 mi ² (0.05%)	0 mi ² (0%)

The majority of Project visibility is concentrated within the near-foreground distance zone, with 1.5% of the area out to 0.5 miles from the Project Area indicated as having potential views of some portion of the Project. Views from areas beyond the near-foreground and into the foreground distance zone (0.5 to 1.5 miles) are better screened, with 0.18% of the foreground distance zone having the potential for views of the PV arrays. The DSM viewshed analysis indicates that potential Project visibility is further reduced at distances beyond the foreground. More than 99% of the VSA is screened from view of the PV arrays in the middle ground (1.5 to 4 miles) and in the background (4 to 5 miles).

The topography and vegetation associated with hills, streams, and forested woodlots play a significant role in reducing potential PV array visibility within the VSA. Due to their establishment and orientation throughout the VSA, stream corridors and forested areas serve to concentrate areas of potential visibility in the near-foreground distance zone, on level open ground within agricultural tracts. A few additional locations of potential visibility are present in the distance zones beyond the near-foreground distance zone. These areas are discrete corridors of visibility that result from breaks in the forest vegetation combined with slight topographic elevation. Due to the limited portion of the Project that would be visible, and the distance from the Project, it is unlikely that Project visibility within these narrow corridors or elevated viewpoints would be readily noticeable to a casual viewer.

Existing structures and vegetation (i.e., small woodlots and hedgerows) are assumed to fully block views of the Project. This scenario is likely in leaf-on conditions; however, during leaf-off conditions (fall, winter), this may be conservative since sparsely vegetated areas may not actually provide screening that fully obscure views of the Project. Furthermore, although the LIDAR data used in this analysis is from 2021, any changes to structures and vegetation since its creation would not be represented in the analysis. Stantec reviewed available recent aerial photography and field-collected photos which suggest that the LIDAR data appear to accurately reflect current screening conditions within the VSA.

Figure 3-1 of the DSM viewshed analysis for a 5-mile radius depicts a viewshed that incorporates a vegetative model. This figure illustrates that visibility beyond a 0.5-mile radius will be primarily limited to discrete corridors of agricultural fields at higher elevations to the southwest and southeast. Further analysis is provided on the vegetative model below.



0 1 2 3 4 Miles
0 2 4 6 Kilometers

Viewshed Project Area
-- Visibility Range Rings

7.5' Quadrangles

PLSS: unsectioned

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3-1 Viewshed Analysis - PV Panel (5-mile radius)

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Wood Duck Solar, LLC
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Potential PV panel visibility within the various LTs, as predicted by the DSM viewshed analysis, is summarized in Table 3-2.

Table 3-2 Landscape Types Viewshed Analysis Results Summary

Analysis	VSA	Landscape Types							
		Planted/ Cultivated	Forest	Developed	Open Water	Wetlands	Grassland/ Herbaceous	Shrubland	Barren
Total Area	143.6 mi ²	88.66 mi ²	44.88 mi ²	9.76 mi ²	0.43 mi ²	0.7 mi ²	0.41 mi ²	0.67 mi ²	0.09 mi ²
DSM Viewshed Visibility	2.47 mi ² (1.5%)	1.93 mi ² (1.34%)	0.27 mi ² (0.19%)	0.27 mi ² (0.19%)	0.0032 mi ² (0.002%)	0.0002 mi ² (0.0002%)	0.0004 mi ² (0.0003%)	0.0009 mi ² (0.0006%)	0. mi ² (0%)

The greatest potential for visibility of the proposed solar arrays is indicated within the Planted/Cultivated LT. The DSM viewshed indicates that 1.34% of the total VSA could potentially offer views of the proposed PV panels from this LT. Visibility within the Planted/Cultivated LT is most heavily concentrated within the Project itself, and within adjacent open agricultural fields in the near-foreground distance zone.

The potential for solar array visibility within the Forested LT is indicated in approximately 0.19% of the total VSA. Visibility may occur in small breaks or clearings in the forest vegetation, but the occurrence of these areas is generally limited. Visibility within this LT occurs most frequently along the forest edges where abutting open fields provide opportunities for outward views. However, there will be little to no PV panel visibility from the majority of the forested areas, particularly during the growing season.

The potential for solar array visibility within the Developed LT is indicated in approximately 0.19% of the VSA. Visibility within this LT occurs most frequently along its edges, with limited outward views due to the presence of buildings and closely situated houses, landscaped yards/planted vegetation, utility poles, and other visual clutter.

The LTs with the least amount of potential solar array visibility are the Open Water (0.002%), Wetlands (0.0002%), Grassland/Herbaceous (0.0003%), Shrubland (0.0006%), and Barren Land (0%). Visible portions of these LTs comprise 0.0031% of the total VSA and their visibility varies considerably based on proximity to the Project, elevation, and orientation.

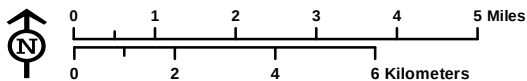
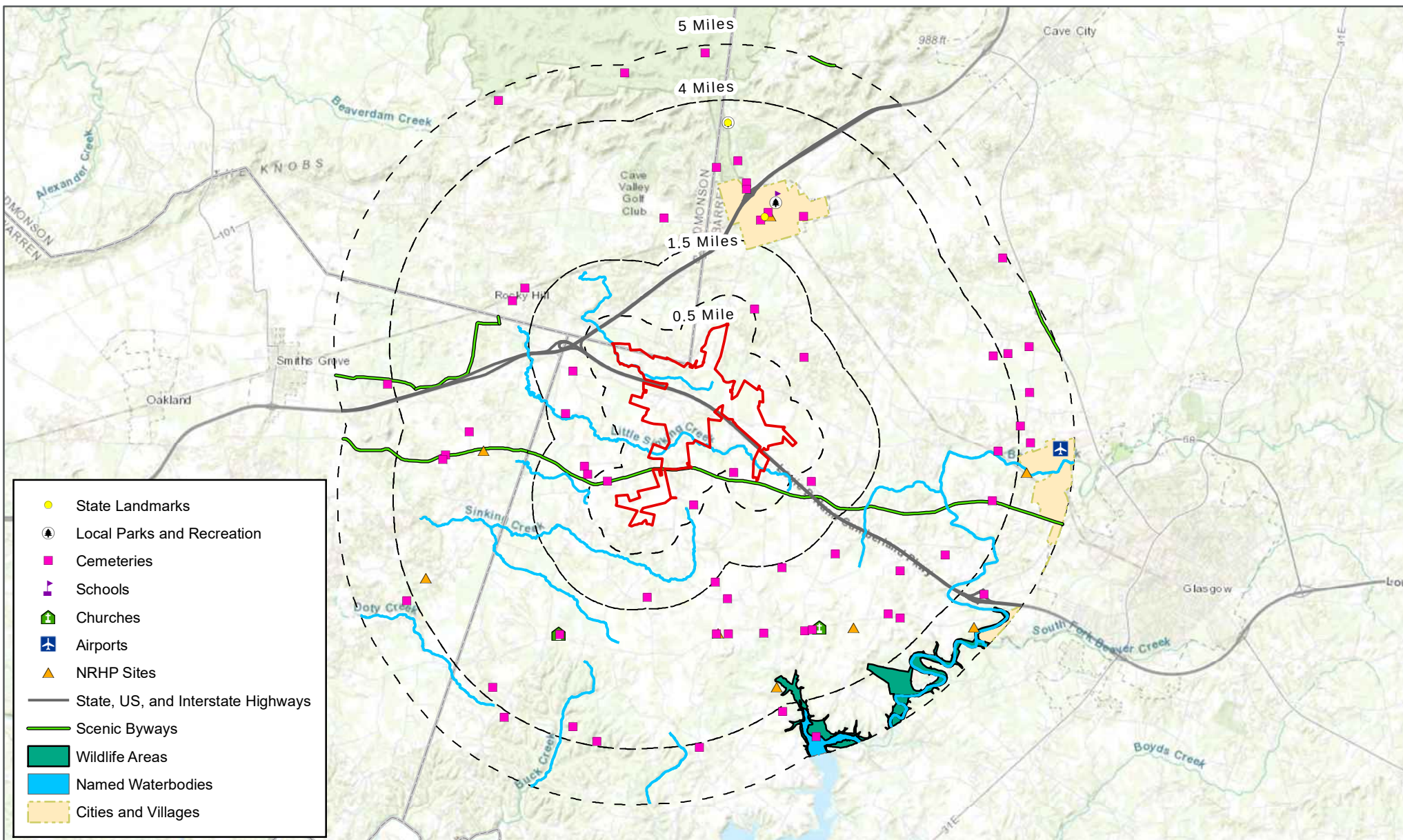
3.1.2 Visibility Results from Visually Sensitive Resources

As summarized in Table 3-3, the DSM viewshed analysis indicates that 7 of the 91 VSRs identified within the VSA (7.6%) may have some visibility of the PV arrays. The locations of mapped VSRs within the VSA are illustrated in Figure 3-2.

Table 3-3 Visually Sensitive Resources in the DSM Viewshed

Visually Sensitive Resources	Total Number of Resources within the Visual Study Area	Total Number of Resources with Visibility
<i>Properties of Historic Significance</i>		
National Historic Landmarks (NHL)	0	0
Sites Listed on National or State Registers of Historic Places (NRHP/SRHP)	8	0
National/State Historic Sites	0	0
Historic Bridges	0	0

Visually Sensitive Resources	Total Number of Resources within the Visual Study Area	Total Number of Resources with Visibility
Cemeteries	61	5
Kentucky Historic State Markers	2	0
Total	71	5
<i>Designated Scenic Resources</i>		
Rivers Designated as National or State Wild, Scenic or Recreational	0	0
Sites, Areas, Lakes, Reservoirs or Highways Designated or Eligible for Designation as Scenic ([ECL Article 49Title 1] or equivalent)	0	0
Scenic Areas of Statewide Significance [Article 42 of Executive Law]	0	0
Other Designated Scenic Resources (Easements, Roads, Districts, and Overlooks)	8	1
Total	8	1
<i>Public Lands and Recreational Resources</i>		
National Parks, Recreation Areas, Seashores, and/or Forests [16 U.S.C. 1c]	0	0
National Natural Landmarks [36 CFR Part 62]	0	0
National Wildlife Refuges [16 U.S.C. 668dd]	0	0
State Parks [Parks, Recreation and Historic Preservation Law Section 3.09]	0	0
Wildlife Areas	1	0
State Forest	0	0
Other State Lands	0	0
Designated Trails	0	0
Local Parks and Recreation Areas	2	0
Conservation Lands/Easements	0	0
Named Lakes, Ponds, and Reservoirs	1	0
Total	4	0
<i>High-Use Public Areas</i>		
State, US, and Interstate Highways	2	1
Cities, Villages,	2	0
Schools	1	0
Airports	1	0
Hospitals	0	0
Churches	2	0
Total	8	1
Total Number of Visually Sensitive Resources in the VSA	91	7



Project Area
 - - Visibility Range Rings

7.5' Quadrangles
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3-2: Location of Visually Sensitive Resources

Visual Resource Assessment for the Wood Duck Energy Project

Wood Duck Solar, LLC

Barren County, Kentucky

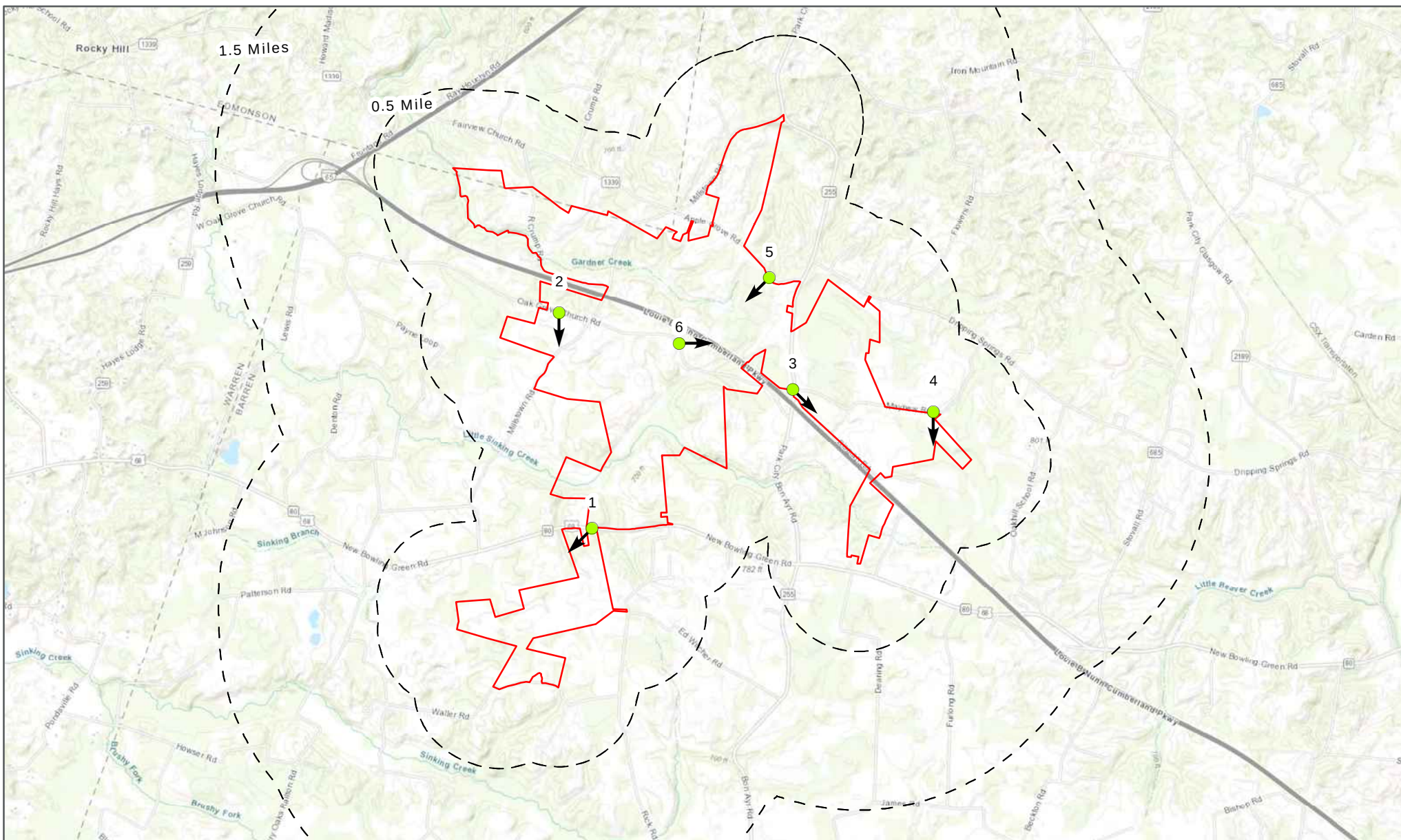
Stantec
 76 San Marcos Street, Austin, TX 78702 USA
 Phone(+1) 512-306-9669
www.stantec.com

3.1.3 Field Verification Results

According to the DSM viewshed analysis, the Project will be screened from approximately 98.5% of the VSA by intervening landforms, vegetation, and structures. Field visits confirmed the results of this analysis, as Project visibility was observed to be largely restricted to areas adjacent to the Project Area where public roads are bordered by open agricultural fields. It was also confirmed during field visits that existing topography, as well as mature vegetation associated with hills, stream corridors, woodlots, and hedgerows will screen the Project from more distant portions of the VSA. Within the near-foreground (0-0.5 miles) distance zone, field review revealed that although portions of the Project are technically visible as indicated in the viewshed analysis, there is a low likelihood of discerning the proposed Project due to the level of visual blending into the background at the outer extents of this distance zone (see Figure 3-4 and Figure 3-5). During the growing season, visibility of the Project from residences and roadways may also be limited by the growth of cultivated crops in the foreground agricultural fields. The combination of relatively low panel height, along with existing hedgerows, rolling topographic relief, and the atmospheric effects of distance, will significantly limit visibility of the Project from the majority of the VSA.

3.2 Visual Simulations

Visual simulations were created to illustrate the Project from six representative locations. These visual simulations provide a time-lapse from existing conditions, to initial construction of Project components, to post-construction with the inclusion of prescribed plantings where applicable (see Appendix A). The prescribed planting simulations illustrate view at the time of initial planting and are anticipated to grow to provide a robust screen the Project Area within 5-7 years. Images and details are presented in Appendix A of all six visual simulations.



0 1 Miles
0 2 Kilometers

Project Area

--- Visibility Range Rings



Visual Simulation Locations

7.5' Quadrangles
PLSS: unsectioned

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3-3 Visual Simulation Viewpoints Map

Visual Resource Assessment for the Wood Duck Solar Project
Wood Duck Solar, LLC
Barren County, Kentucky

 **Stantec**
76 San Marcos Street, Austin, TX 78702 USA
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4 Conclusions

4.1 Visual Resource Assessment Summary

Results of this viewshed analysis indicate that the proposed solar arrays associated with the Project will be screened from view in approximately 98.5% of the 5-mile radius VSA. Visibility is concentrated within the Project Area and adjacent open fields. The viewshed analysis also suggests that panel visibility substantially diminishes beyond the near-foreground distance zone (0.5 mile).

The viewshed analysis of the 91 identified VSRs within the VSA indicates that 7 (7.6%) have potential Project visibility. Viewshed results suggest that views from VSRs will generally be small and/or include only a limited number of Project components.

The Field visit confirmed the results of the viewshed analysis. Beyond 0.5 mile, Project visibility will be reduced due to screening provided by topography and hedgerows in combination with the low height of the solar panels. Additionally, discernibility of panels that are visible in the outer extents of the 0.5 mile range will be diminished due to visual blending with the background at these distances.

The Project will result in varying levels of visual impact when viewed from its surrounding vicinity. The Project will install structures that will alter the scenic quality and/or existing agricultural character of the landscape. However, as illustrated in the visual simulations, Project visibility and potential visual impact will diminish rapidly at greater distances. For this reason, it is anticipated that the impacts will be localized to a limited number of areas adjacent to the Project. Additionally, these impacts will likely be mitigated to some degree by the presence of seasonal crops in actively farmed fields.

4.2 Mitigation

Wood Duck Solar proposes to plant vegetation along the Project boundary at publicly viewable areas to reduce or screen views of constructed PV panels. The conceptual plan developed for this Project is based on the assumption that 100% screening is not necessary and that introduction of native vegetation in clumps and hedgerows will adequately mimic the existing plant materials observed in the vicinity of the Project Area. The visual simulations illustrate how the proposed planting module will minimize potential visual impacts created by the installation of the PV panels. Although the mitigation represented in the visual simulations is conceptual at this time, and planting composition may be adjusted, the design goals and approach will not change. Additional details can be found in the separate landscaping plan for the Project.

5 References

- Multi-Resolution Land Characteristics Consortium (MRLC). 2016. National Land Cover Database. Available at: <https://www.mrlc.gov/data/nlcd-2011-land-cover-conus-0>. Accessed May 2023.
- National Park Service (NPS). 2016. National Historic Landmarks. Accessed May 2023. Available at: <https://www.nps.gov/subjects/nationalhistoriclandmarks/list-of-nhls-by-state.htm#onthisPage-35>
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- United States Geological Survey (USGS). 2018. National Hydrography Dataset Waterbody data. The National Map. Accessed May 2023. Available at: <https://viewer.nationalmap.gov/advanced-viewer/>
- United States Fish and Wildlife Service (USFWS). 2018. National Wildlife Refuge Locator. Accessed May 2023. Available at: [Our Facilities | U.S. Fish & Wildlife Service \(fws.gov\)](#)

Visual Resource Assessment and
Mitigation Plan
Wood Duck Solar Project

APPENDIX

A

VISUAL SIMULATIONS

Viewpoint 1 | Glasgow

Viewpoint Information

Viewpoint ID: 1

County: Barren

City/Town: Glasgow

Location: New Bowling Green Road

Coordinates: 37.026076, -86.082623

Direction of View: South-West

Distance to Project: 0.02 mile

Distance Zone: Near-Foreground

Visual Resources

Landscape Type: Farmland

User Group: Resident

Photograph Information

Date Taken: April 6, 2023

Time: 11:56 AM

Camera: Canon EOS REBEL T5

Resolution: 5184 x 3456 pixels

Lens Focal Length: 29 mm

Camera Elevation: 5.6 feet

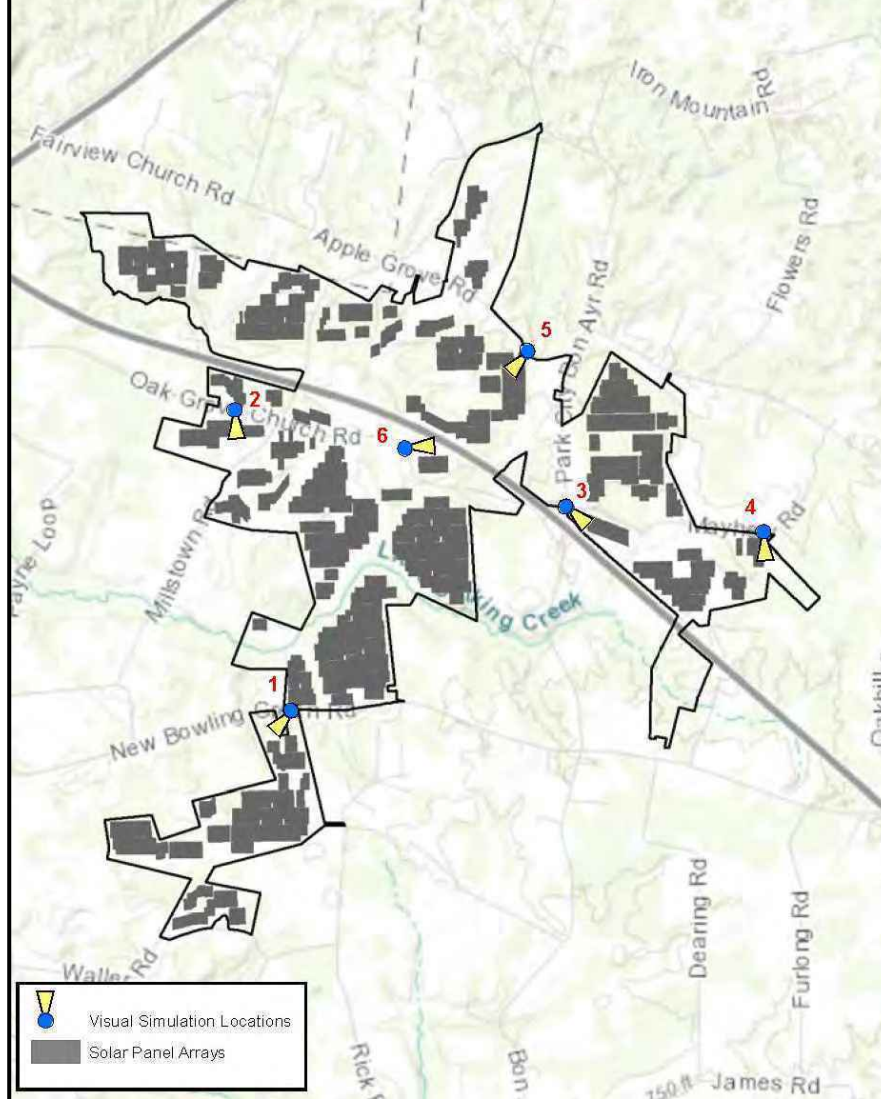
Project Information

Racking Type: Single Axis Tracker

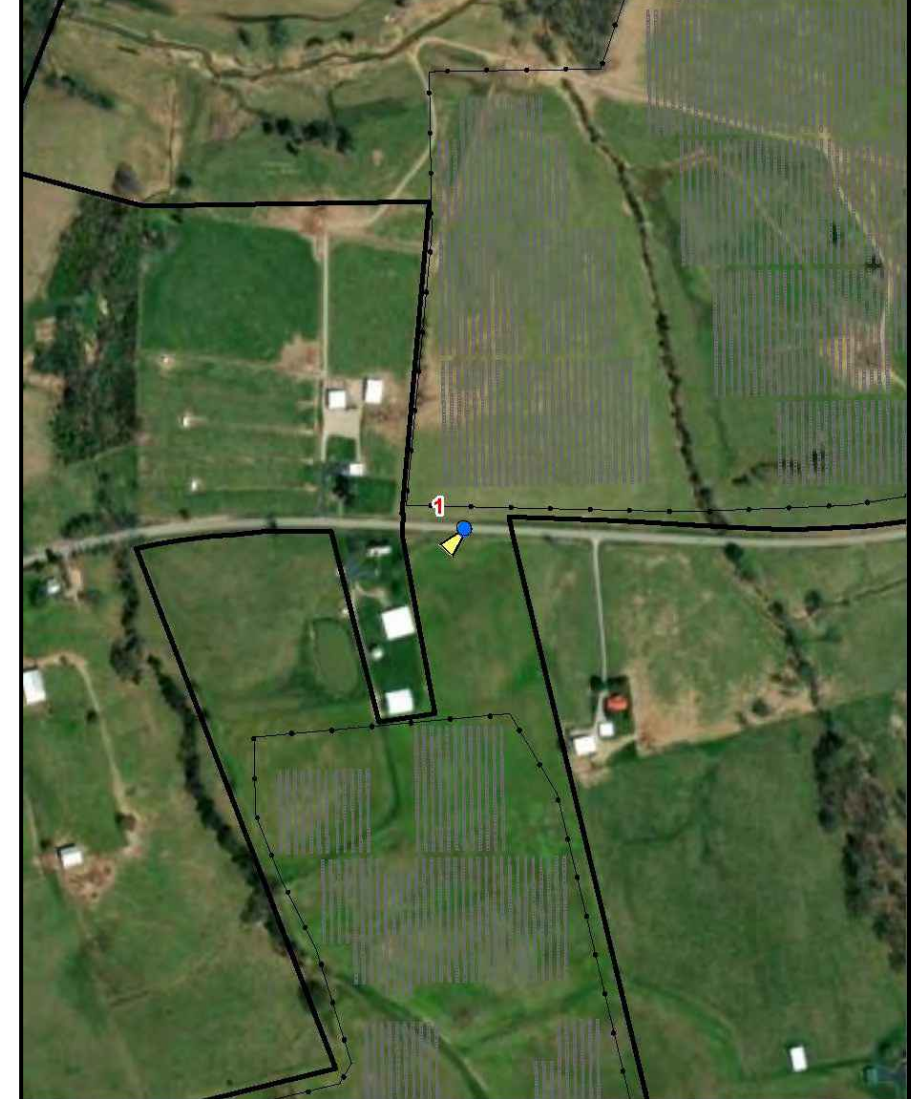
Max Panel Height: 9.0 feet

Total Buildable Area: 1,126.7 acres

Contextual Location Map



Detailed Location Map



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 1 at New Bowling Green Road – Context Sheet

Sheet 1 of 20

Existing Conditions



Wood Duck Solar Project

Barren County, Kentucky

Visual Resource Assessment | Appendix A, Viewpoint 1 at New Bowling Green Road – Existing Conditions

Sheet 2 of 20



Visual Simulation



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 1 at New Bowling Green Road – Visual Simulation

Sheet 3 of 20



Visual Simulation · Proposed Mitigation



Wood Duck Solar Project

Barren County, Kentucky

Visual Resource Assessment | Appendix A, Viewpoint 1 at New Bowling Green Road – Proposed Mitigation

Sheet 4 of 20



Viewpoint 2 | Glasgow

Viewpoint Information

Viewpoint ID: 2

County: Barren

City/Town: Glasgow

Location: Oak Grove Church Road

Coordinates: 37.045778, -86.086901

Direction of View: South

Distance to Project: 0.05 mile

Distance Zone: Near-Foreground

Visual Resources

Landscape Type: Farmland

User Group: Resident

Photograph Information

Date Taken: April 6, 2023

Time: 10:37 AM

Camera: Canon EOS REBEL T5

Resolution: 5184 x 3456 pixels

Lens Focal Length: 29 mm

Camera Elevation: 5.6 feet

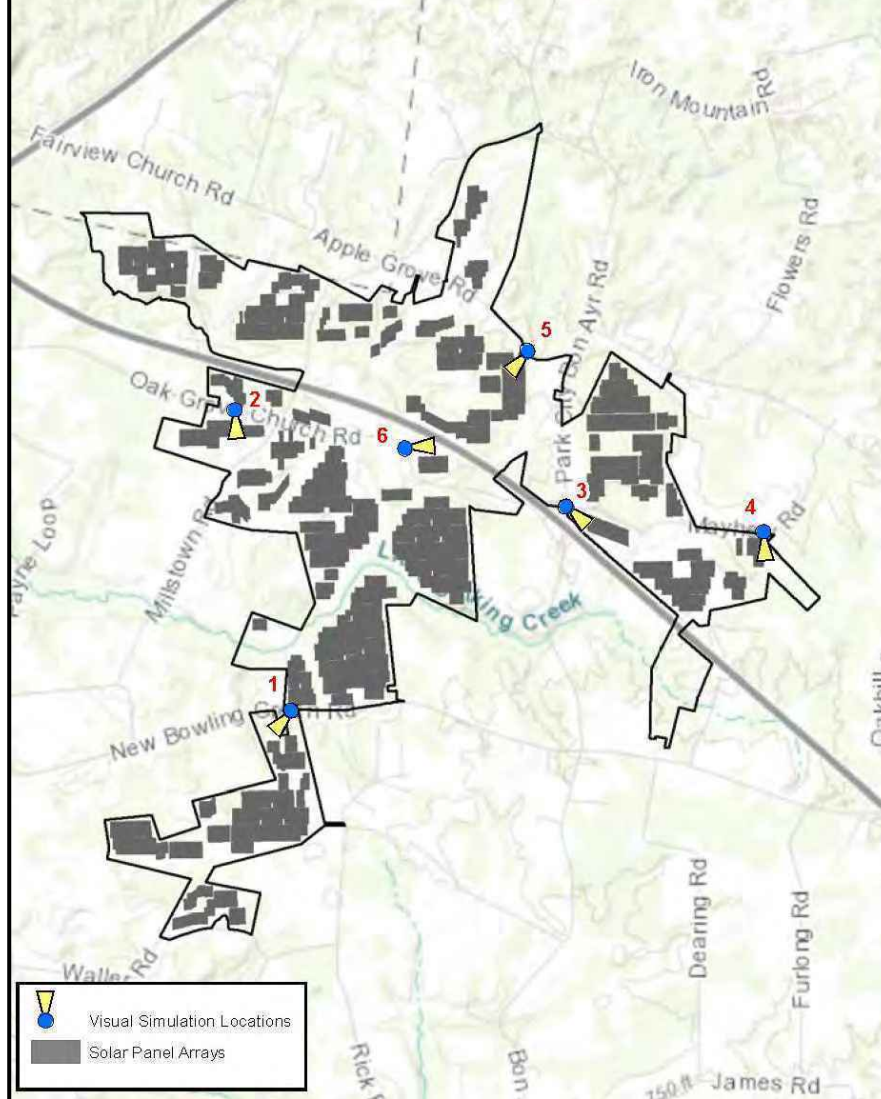
Project Information

Racking Type: Single Axis Tracker

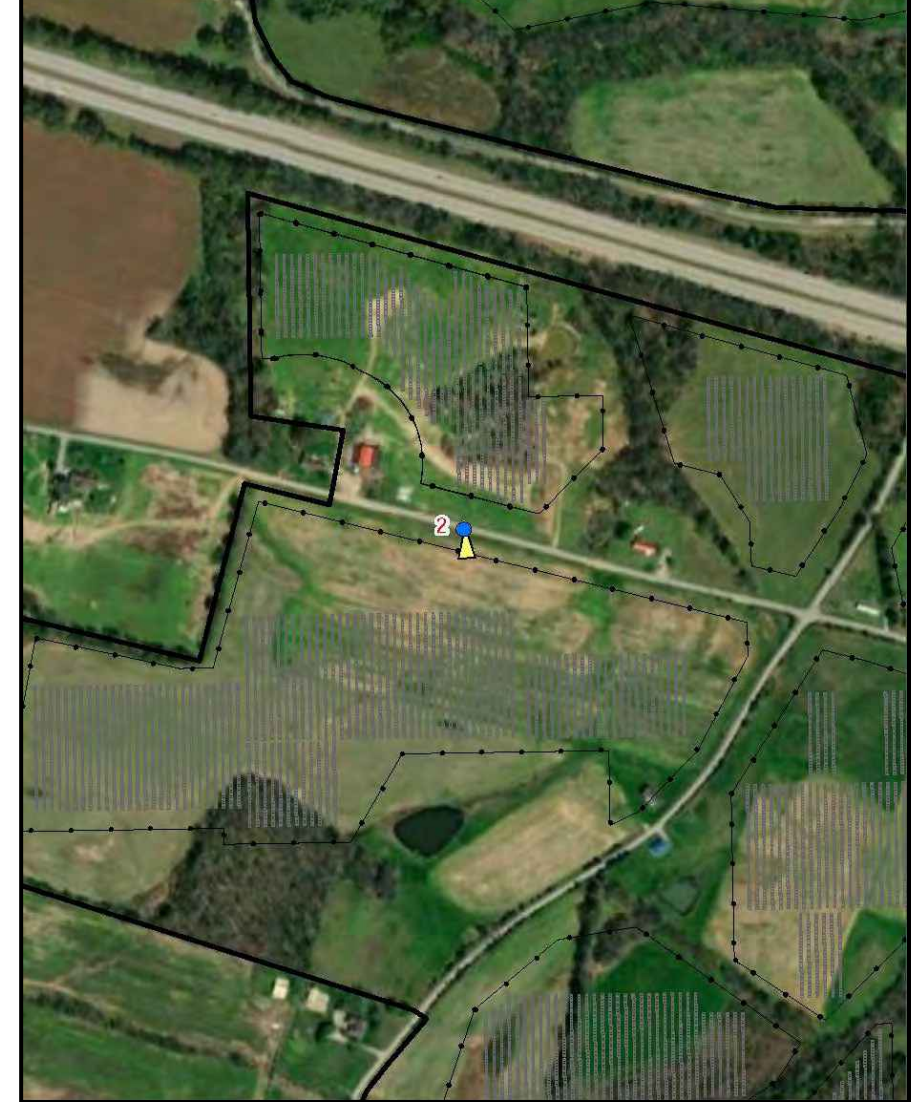
Max Panel Height: 9.0 feet

Total Buildable Area: 1,126.7 acres

Contextual Location Map



Detailed Location Map



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 2 at Oak Grove Church Road – Context Sheet

Sheet 5 of 20

Existing Conditions



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 2 at Oak Grove Church Road – Existing Conditions

Sheet 6 of 20



Visual Simulation



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 2 at Oak Grove Church Road – Visual Simulation

Sheet 7 of 20



Viewpoint 3 | Glasgow

Viewpoint Information

Viewpoint ID: 3

County: Barren

City/Town: Glasgow

Location: Park City-Bon Ayre Road

Coordinates: 37.039196, -86.060045

Direction of View: South-East

Distance to Project: 0.10 mile

Distance Zone: Near-Foreground

Visual Resources

Landscape Type: Farmland

User Group: Resident

Photograph Information

Date Taken: April 6, 2023

Time: 11:13 AM

Camera: Canon EOS REBEL T5

Resolution: 5184 x 3456 pixels

Lens Focal Length: 29 mm

Camera Elevation: 5.6 feet

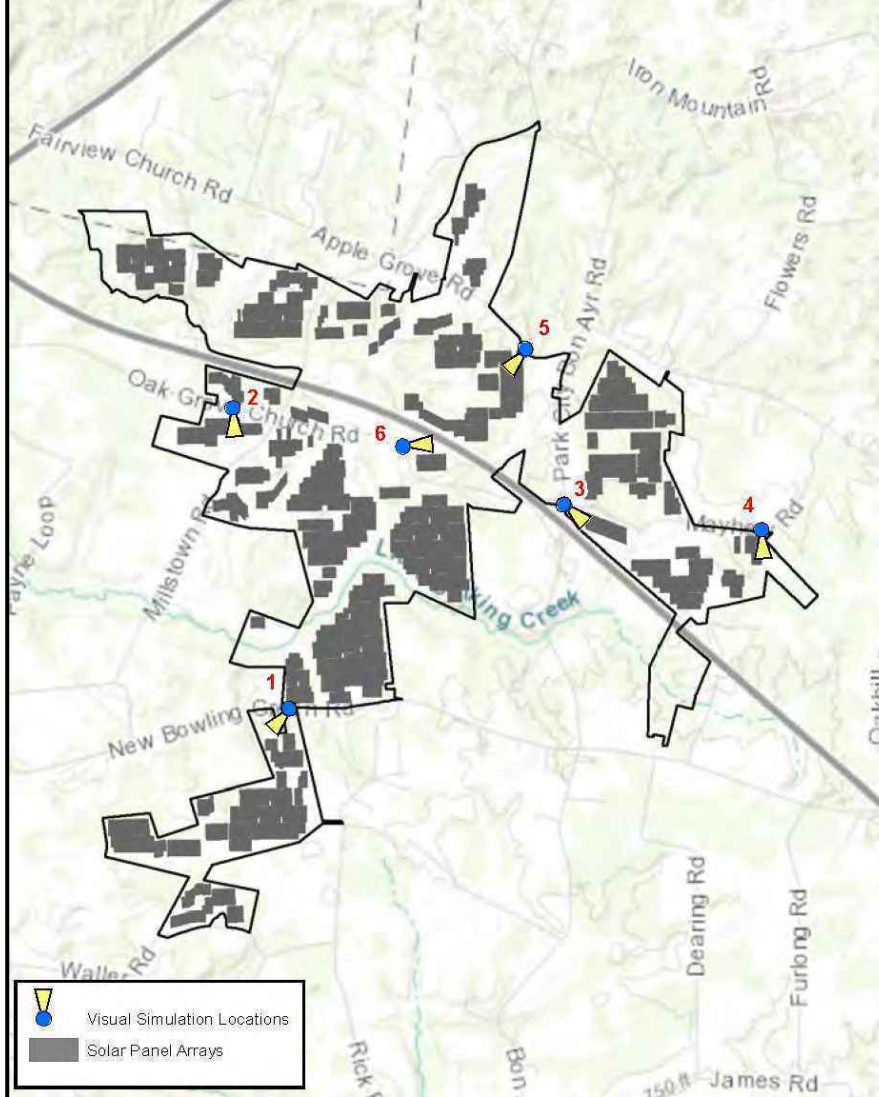
Project Information

Racking Type: Single Axis Tracker

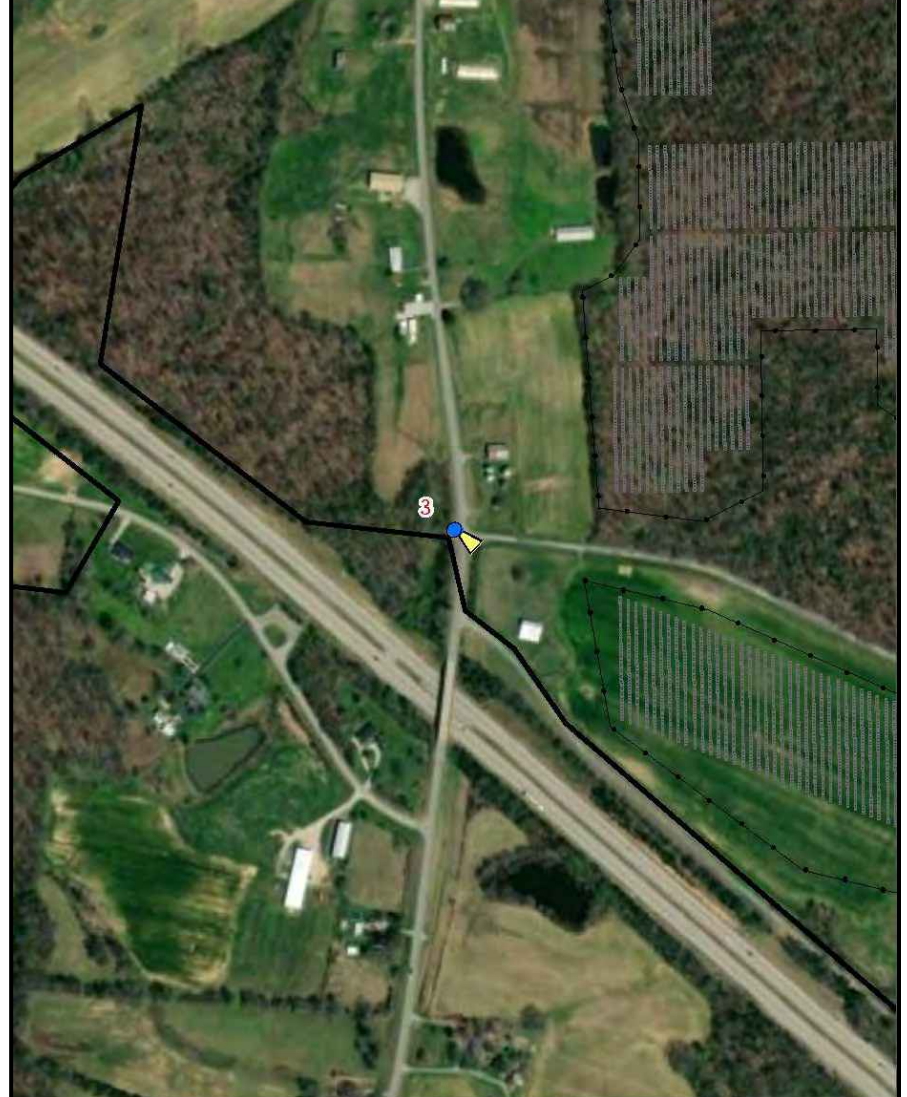
Max Panel Height: 9.0 feet

Total Buildable Area: 1,126.7 acres

Contextual Location Map



Detailed Location Map



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 3 at Park City-Bon Ayre Road – Context Sheet

Sheet 8 of 20

Existing Conditions



Wood Duck Solar Project

Barren County, Kentucky

Visual Resource Assessment | Appendix A, Viewpoint 3 at Park City-Bon Ayr Road – Existing Conditions

Sheet 9 of 20



Visual Simulation



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 3 at Park City-Bon Ayr Road – Visual Simulation

Sheet 10 of 20



Viewpoint 4 | Glasgow

Viewpoint Information

Viewpoint ID: 4

County: Barren

City/Town: Glasgow

Location: Mayhew Road

Coordinates: 37.037369, -86.043998

Direction of View: South

Distance to Project: 0.03 mile

Distance Zone: Near-Foreground

Visual Resources

Landscape Type: Farmland

User Group: Resident

Photograph Information

Date Taken: April 6, 2023

Time: 11:24 AM

Camera: Canon EOS REBEL T5

Resolution: 5184 x 3456 pixels

Lens Focal Length: 29 mm

Camera Elevation: 5.6 feet

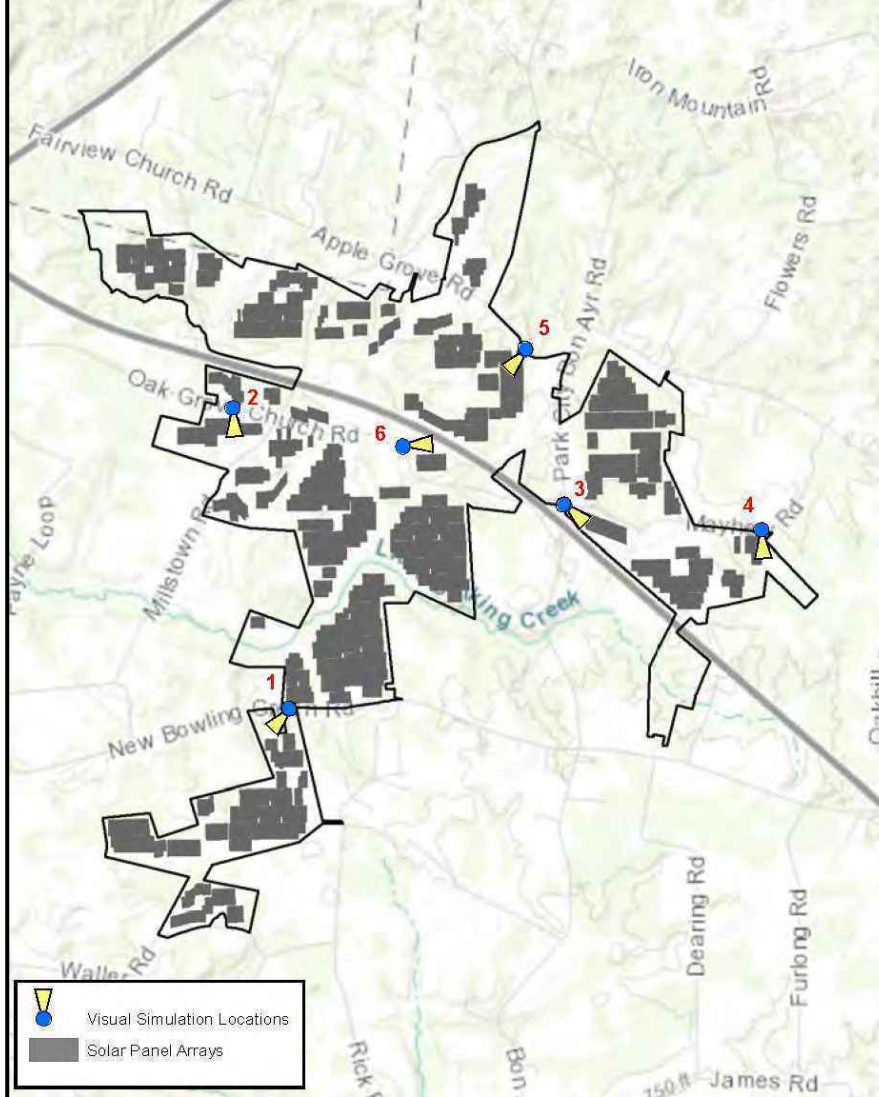
Project Information

Racking Type: Single Axis Tracker

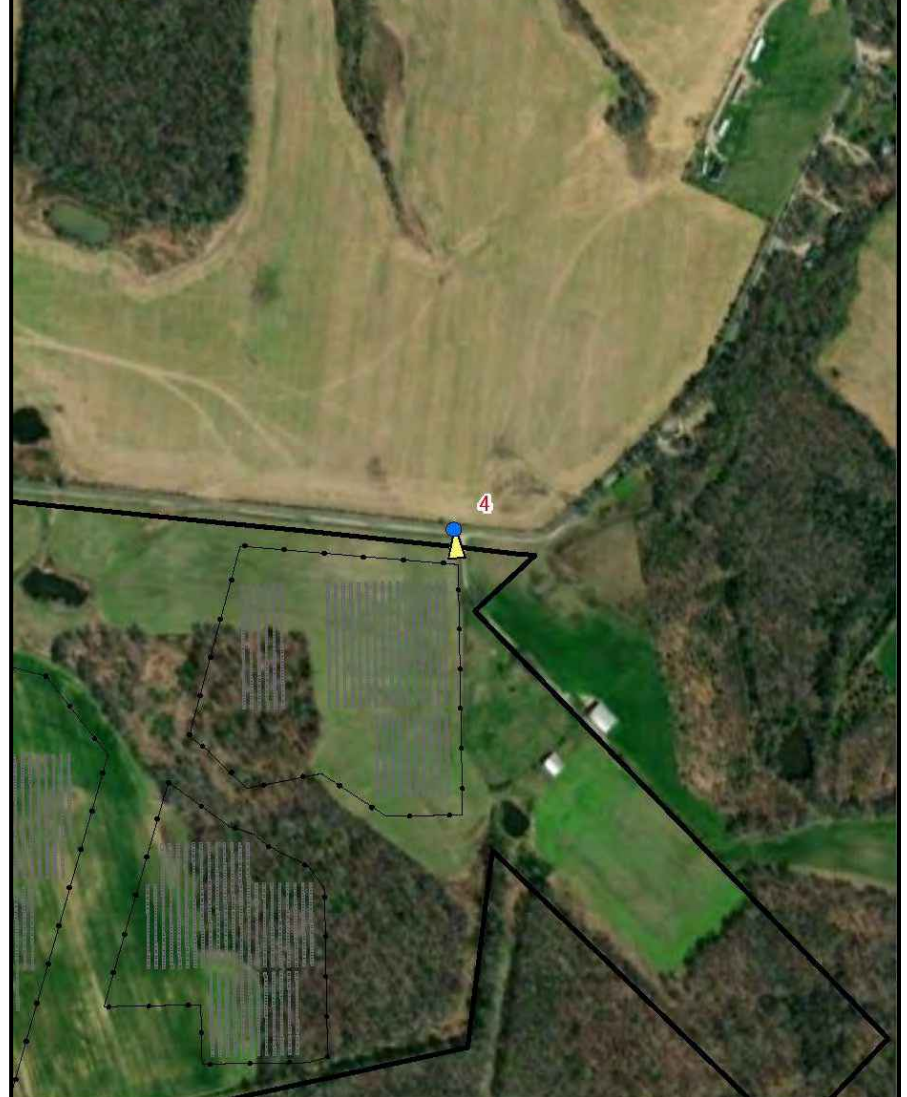
Max Panel Height: 9.0 feet

Total Buildable Area: 1,126.7 acres

Contextual Location Map



Detailed Location Map



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 4 at Mayhew Road – Context Sheet

Sheet 11 of 20

Existing Conditions



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 4 at Mayhew Road – Existing Conditions

Sheet 12 of 20



Visual Simulation



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 4 at Mayhew Road – Visual Simulation

Sheet 13 of 20



Viewpoint 5 | Glasgow

Viewpoint Information

Viewpoint ID: 5

County: Barren

City/Town: Glasgow

Location: Apple Grove Road

Coordinates: 37.049345, -86.062965

Direction of View: South-West

Distance to Project: 0.02 mile

Distance Zone: Near-Foreground

Visual Resources

Landscape Type: Farmland

User Group: Resident

Photograph Information

Date Taken: April 6, 2023

Time: 11:04 AM

Camera: Canon EOS REBEL T5

Resolution: 5184 x 3456 pixels

Lens Focal Length: 29 mm

Camera Elevation: 5.6 feet

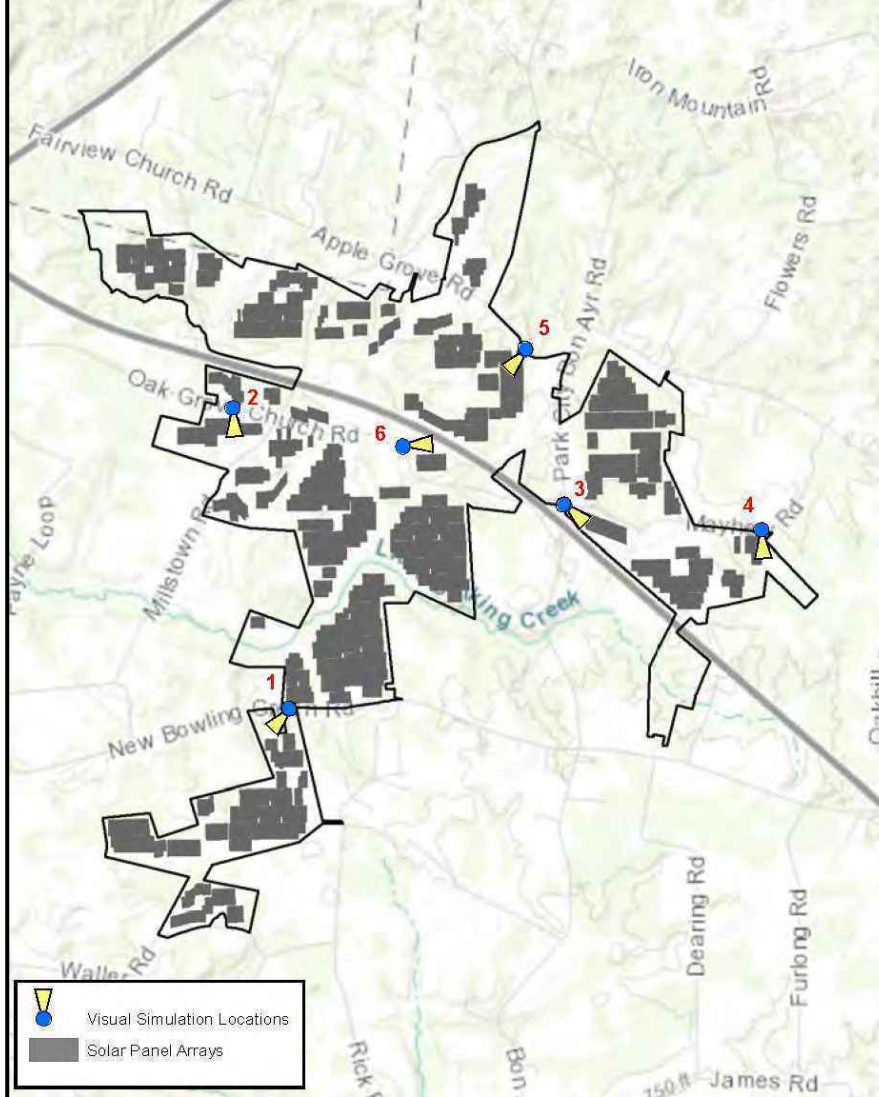
Project Information

Racking Type: Single Axis Tracker

Max Panel Height: 9.0 feet

Total Buildable Area: 1,126.7 acres

Contextual Location Map



Detailed Location Map



Wood Duck Solar Project

Barren County, Kentucky

Visual Resource Assessment | Appendix A, Viewpoint 5 at Apple Grove Road – Context Sheet

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Existing Conditions



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 5 at Apple Grove Road – Existing Conditions

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Visual Simulation



Wood Duck Solar Project

Barren County, Kentucky

Visual Resource Assessment | Appendix A, Viewpoint 5 at Apple Grove Road – Visual Simulation

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Visual Simulation · Proposed Mitigation



Wood Duck Solar Project

Barren County, Kentucky

Visual Resource Assessment | Appendix A, Viewpoint 5 at Apple Grove Road – Proposed Mitigation

Sheet 17 of 20



Viewpoint 6 | Glasgow

Viewpoint Information

Viewpoint ID: 6

County: Barren

City/Town: Glasgow

Location: Oak Grove Church Road

Coordinates: 37.043159, -86.073135

Direction of View: East

Distance to Project: 0.08 mile

Distance Zone: Near-Foreground

Visual Resources

Landscape Type: Farmland

User Group: Resident

Photograph Information

Date Taken: April 6, 2023

Time: 10:16 AM

Camera: Canon EOS REBEL T5

Resolution: 5184 x 3456 pixels

Lens Focal Length: 29 mm

Camera Elevation: 5.6 feet

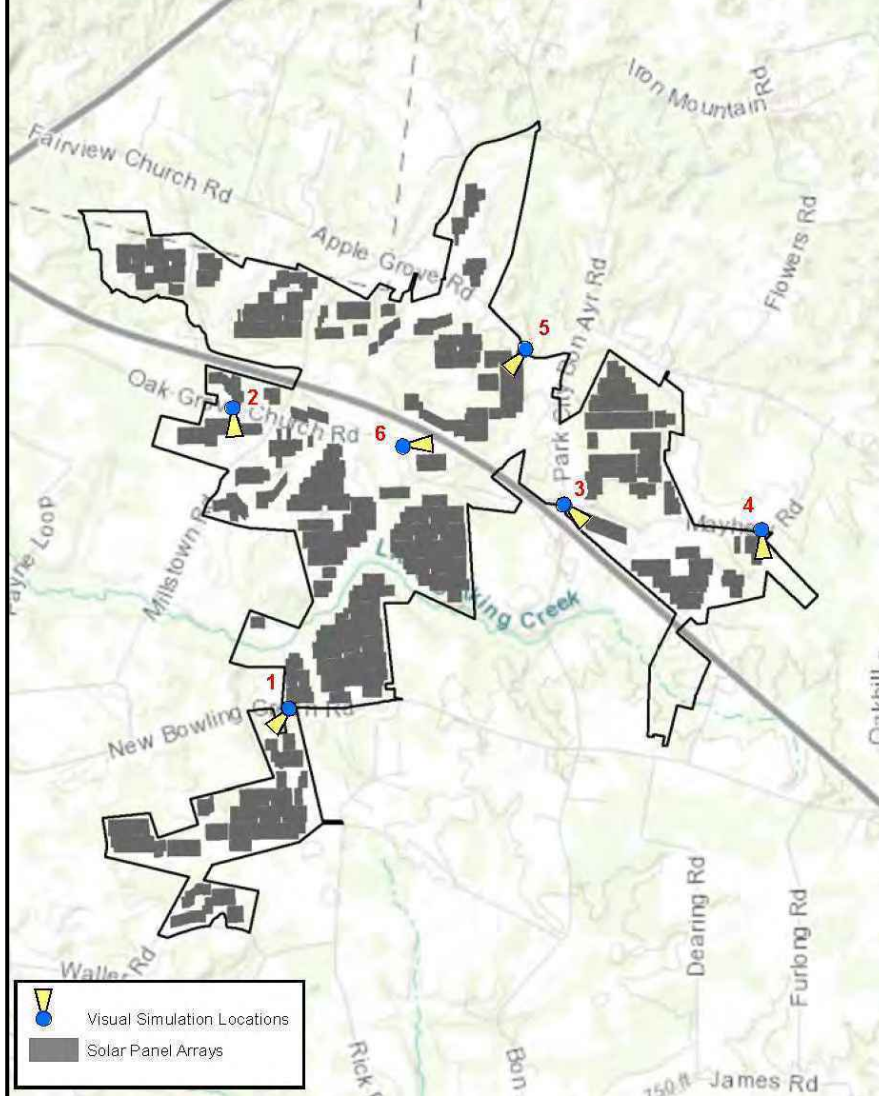
Project Information

Racking Type: Single Axis Tracker

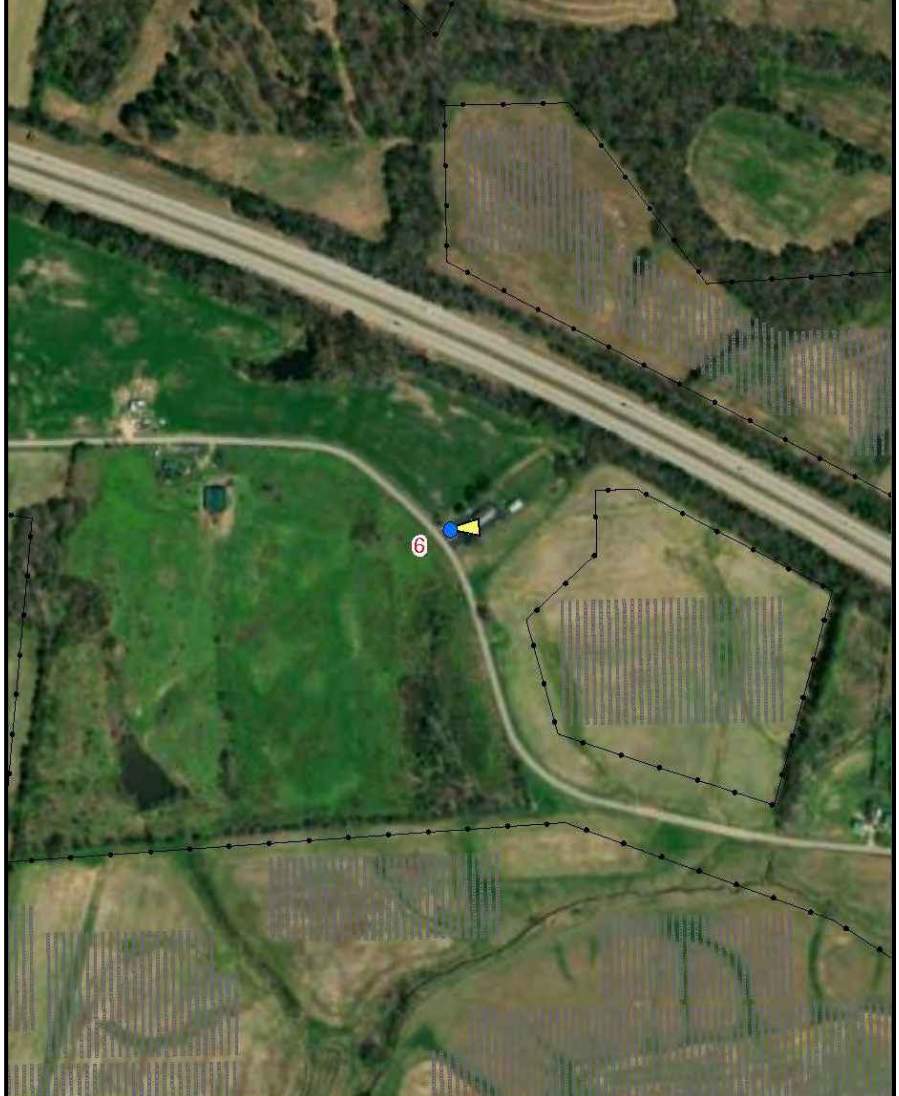
Max Panel Height: 9.0 feet

Total Buildable Area: 1,126.7 acres

Contextual Location Map



Detailed Location Map



Wood Duck Solar Project

Barren County, Kentucky

[Visual Resource Assessment](#) | Appendix A, Viewpoint 6 at Oak Grove Church Road – Context Sheet

Sheet 18 of 20

Existing Conditions



Wood Duck Solar Project

Barren County, Kentucky

Visual Resource Assessment | Appendix A, Viewpoint 6 at Oak Grove Church Road – Existing Conditions

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Visual Simulation



Wood Duck Solar Project

Barren County, Kentucky

Visual Resource Assessment | Appendix A, Viewpoint 6 at Oak Grove Church Road – Visual Simulation

Sheet 20 of 20



Visual Resource Assessment and
Mitigation Plan
Wood Duck Solar Project

APPENDIX

B

VISUALLY SENSITIVE RESOURCE
ANALYSIS

Visually Sensitive Resources	Location	Distance	Project Visibility (Viewshed Results)
	County	Miles from Nearest PV Array	+ Visible - Not Visible +/- Partially Visible
			DSM Viewshed (Topography, Structures, Vegetation)
Properties of Historic Significance			
National Historic LandMarks (NHL)			
None within VSA.			
Sites Listed on National or State Registers of Historic Places (NRHP/SRHP)			
Edmunds, Charles Penn, House	Barren	3.17	-
Gullian Gerig's Mill	Barren	4.18	-
Hays, James, House	Warren	2.51	-
Joggers, J. C., House	Warren	3.66	-
Mayfield, John, House	Barren	4.60	-
Octagon Cottage	Barren	3.67	-
Old Zion Methodist Church	Barren	2.27	-
Renfro Hotel	Barren	2.06	-
National/State Historic Sites			
None within VSA.			
Historic Bridges			
None within VSA.			
OGS Cemeteries			
Alexander Cemetery	Barren	1.89	-
Allen - Church - Steffey Cemetery	Edmonson	4.04	-
Allen - Sears Cemetery	Barren	0.72	-
Allen Cemetery Number 4	Barren	4.21	-
Allen Cemetery Number 5	Barren	1.53	-
Barber Cemetery	Barren	4.29	-
Barrick Cemetery	Barren	1.29	-
Beech Grove Church Cemetery	Barren	3.35	-
Bell Cemetery	Barren	1.94	-
Bon Ayr Methodist Church Cemetery	Barren	0.34	-
Bowles Cemetery Number 1	Barren	2.76	-
Bridges Cemetery	Barren	2.95	-
Buck Creek Cemetery	Barren	3.75	-
Chapmans Cemetery	Barren	4.53	-
Clack - Emmitt Cemetery	Barren	4.13	-
Clayton Family Cemetery	Edmonson	2.17	-
Cliburn Family Cemetery	Warren	3.14	-
Davidson Cemetery Number 1	Barren	4.73	-
Davidson Cemetery Number 2	Barren	4.09	-
Denton Cemetery	Barren	0.30	+/-
Duval Cemetery Number 1	Barren	2.84	-
Duval Cemetery Number 2	Barren	1.63	-
Edmunds Cemetery	Barren	2.38	-
Evergreen Cemetery	Barren	2.34	-
France Cemetery	Edmonson	4.85	-
Gray - Barrick Cemetery	Barren	0.34	+/-
Green Meadows Church Cemetery	Warren	3.17	-
Harlow Cemetery Number 4	Barren	4.93	-
Hayden Cemetery	Barren	2.42	-
Hays Cemetery	Warren	2.87	-
Heavenly Hills Cemetery	Barren	2.79	-
Hervey Edwards Cemetery	Barren	1.68	-
Hester Burial Ground	Barren	1.85	-
Hodge Cemetery	Barren	0.77	+/-
John B Bishop Cemetery	Barren	0.96	+/-
Keith's Cemetery	Edmonson	4.82	-
Lessenberry Cemetery	Barren	3.35	-
Littrell Cemetery	Barren	3.80	-
Locust Grove Cemetery	Edmonson	4.86	-

Visually Sensitive Resources	Location	Distance	Project Visibility (Viewshed Results)
	County	Miles from Nearest PV Array	+ Visible - Not Visible +/- Partially Visible
			DSM Viewshed (Topography, Structures, Vegetation)
Martin - Foster Cemetery	Barren	3.68	-
Merry Oaks Cemetery	Barren	0.64	+/-
Oak Grove United Methodist Church Cemetery	Barren	0.82	-
Old Littrell Cemetery	Barren	4.11	-
Old Zion Methodist Church Cemetery	Barren	2.27	-
Original Old Zion Cemetery	Barren	3.92	-
Park City Town Hall	Barren	2.11	-
Parrish Cemetery Number 1	Barren	4.34	-
Pleasant Grove Cemetery	Warren	4.13	-
Rocky Hill Baptist Church Cemetery	Edmonson	4.08	-
Rocky Hill Cemetery	Edmonson	1.94	-
Shiloh General Baptist Cemetery	Barren	2.32	-
Sinking Creek Baptist Church Cemetery	Barren	1.16	-
Staples Cemetery	Barren	3.63	-
Staples Cemetery	Barren	3.87	-
Steffey Cemetery Number 2	Barren	3.56	-
Stoney Point Baptist Church Cemetery	Warren	4.10	-
Walnut Hill Cemetery	Barren	0.54	-
Whitlow Cemetery	Barren	2.91	-
William P Edmunds Cemetery	Barren	2.87	-
Winlock Cemetery	Barren	1.93	-
Zion Hill Missionary Baptist Church Cemetery	Barren	2.53	-
Kentucky Historic State Markers			
Bell's Tavern State Landmark	Barren	2.16	-
Diamond Caverns State Landmark	Barren	3.67	-
Designated Scenic Resources			
Rivers Designated as National or State Wild, Scenic or Recreational			
None within VSA.			
Other Designated Scenic Resources (Easements, Roads, Districts, and Overlooks)			
Glasgow Road	Warren	1.75	-
Happy Valley Road/Street	Barren	4.93	-
Hays Lodge Road	Warren	2.06	-
Hays-Smith Grove Road	Warren	3.62	-
Mammoth Cave Road	Barren	4.97	-
New Bowling Green Road/Street	Barren	0.00	+
New Glasgow Road/Street	Barren	5.00	-
Rocky Hill-Hays Road	Warren	2.06	-
Sites, Areas, Lakes, Reservoirs or Highways Designated or Eligible for Designation as Scenic ([ECL Article 49 Title 1] or equivalent)			
None within VSA.			
Public Lands and Recreational Resources			
National Parks, Recreation Areas, Seashores, and/or Forests [16U.S.C. 1c]			
None within VSA.			
National Natural LandMarks [36 CFR Part 62]			
None within VSA.			
National Wildlife Refuges [16 U.S.C. 668dd]			
None within VSA.			
Heritage Areas [Parks, Recreation and Historic Preservation Law Section 35.15]			
None within VSA.			
State Parks [Parks, Recreation and Historic Preservation Law Section 3.09]			
None within VSA.			
State Nature and Historic Preserve Areas [Section 4 of Article XIV of the State Constitution]			
None within VSA.			
Wildlife Areas			
Barren River Lake WMA	Barren	3.66	-
State Forest			

Visually Sensitive Resources	Location	Distance	Project Visibility (Viewshed Results)
	County	Miles from Nearest PV Array	+ Visible - Not Visible +/- Partially Visible
			DSM Viewshed (Topography, Structures, Vegetation)
None within VSA.			
Other State Lands			
None within VSA.			
Designated Trails			
None within VSA.			
Local Parks and Recreation Areas			
Park City Elementary School Playground	Barren	2.40	-
Diamond Caverns	Barren	3.67	-
Conservation Lands/Easements			
None within VSA.			
Named Lakes, Ponds, and Reservoirs			
Barren River Lake	Barren	4.08	-
High-Use Public Areas			
State, US, and Interstate Highways			
I-65	Barren, Edmonson, Warren	0.35	-
Louie B. Nunn Cumberland Expressway	Barren	0.02	+/-
Cities, Villages			
Glasgow	Barren	4.03	-
Park City	Barren	1.04	-
Schools			
Park City Elementary School	Barren	2.39	-
Airports			
Glasgow Municipal Airport	Barren	4.75	-
Hospitals			
None within VSA.			
Churches			
Bekton Church of Christ	Barren	2.71	-
Shiloh Church	Barren	2.38	-

Wood Duck

Block 1 5ft vehicle

Created Apr 26, 2023
Updated Apr 27, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 89180.15739

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

Misc. Analysis Settings

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

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

Summary of Results No glare predicted!

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

Component Data

PV Array(s)

Total PV footprint area: 216.2 acres

Name: 101 Footprint area: 11.1 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad 	Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
		deg	deg	ft	ft	ft
	1	37.060192	-86.067809	674.39	5.00	679.39
	2	37.060192	-86.066801	688.88	5.00	693.88
	3	37.059901	-86.066779	690.63	5.00	695.63
	4	37.059927	-86.066076	684.71	5.00	689.71
	5	37.059216	-86.066071	700.58	5.00	705.58
	6	37.059212	-86.066650	696.61	5.00	701.61
	7	37.058377	-86.066640	712.15	5.00	717.15
	8	37.058368	-86.066988	710.97	5.00	715.97
	9	37.057838	-86.066988	715.27	5.00	720.27
	10	37.057829	-86.067584	717.83	5.00	722.83
	11	37.057213	-86.067578	720.16	5.00	725.16
	12	37.057217	-86.067788	719.29	5.00	724.29
	13	37.057003	-86.067788	722.30	5.00	727.30
	14	37.057007	-86.067949	721.80	5.00	726.80
	15	37.057007	-86.068281	718.14	5.00	723.14
	16	37.056215	-86.068297	736.49	5.00	741.49
	17	37.056219	-86.068678	733.02	5.00	738.02
	18	37.057003	-86.068662	711.82	5.00	716.82
	19	37.057011	-86.068909	713.98	5.00	718.98
	20	37.057966	-86.068903	710.14	5.00	715.14
	21	37.057970	-86.067975	711.47	5.00	716.47
	22	37.059122	-86.067981	681.20	5.00	686.20
	23	37.059126	-86.067755	686.93	5.00	691.93

Name: 102 Footprint area: 6.2 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad 	Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
		deg	deg	ft	ft	ft
	1	37.054888	-86.068037	732.82	5.00	737.82
	2	37.054207	-86.068059	742.13	5.00	747.13
	3	37.054203	-86.067490	744.45	5.00	749.45
	4	37.053484	-86.067495	735.92	5.00	740.92
	5	37.053471	-86.066648	726.37	5.00	731.37
	6	37.054186	-86.066658	735.49	5.00	740.49
	7	37.054190	-86.066444	731.81	5.00	736.81
	8	37.054533	-86.066449	731.65	5.00	736.65
	9	37.054533	-86.066176	722.46	5.00	727.46
	10	37.055363	-86.066154	723.89	5.00	728.89
	11	37.055363	-86.067823	728.56	5.00	733.56
	12	37.054884	-86.067828	728.32	5.00	733.32

Name: 103
Footprint area: 7.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.051778	-86.068905	733.27	5.00	738.27
2	37.051783	-86.069168	731.94	5.00	736.94
3	37.051522	-86.070241	731.02	5.00	736.02
4	37.051560	-86.071791	734.22	5.00	739.22
5	37.051278	-86.071797	737.59	5.00	742.59
6	37.051278	-86.072097	735.49	5.00	740.49
7	37.050366	-86.072103	726.89	5.00	731.89
8	37.050349	-86.070397	730.25	5.00	735.25
9	37.050571	-86.070391	733.23	5.00	738.23
10	37.050999	-86.068895	769.51	5.00	774.51

Name: 104
Footprint area: 20.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.051016	-86.067398	736.88	5.00	741.88
2	37.050417	-86.067403	739.29	5.00	744.29
3	37.050408	-86.066518	741.11	5.00	746.11
4	37.049325	-86.066513	773.06	5.00	778.06
5	37.049317	-86.066706	762.50	5.00	767.50
6	37.048388	-86.066738	748.85	5.00	753.85
7	37.048371	-86.067060	742.25	5.00	747.25
8	37.048204	-86.067082	741.21	5.00	746.21
9	37.048186	-86.070418	721.49	5.00	726.49
10	37.050053	-86.070322	719.04	5.00	724.04
11	37.050053	-86.069850	725.28	5.00	730.28
12	37.050340	-86.069860	739.02	5.00	744.02
13	37.050370	-86.068272	742.48	5.00	747.48
14	37.051025	-86.068251	752.49	5.00	757.49

Name: 105
Footprint area: 21.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.049325	-86.066336	783.19	5.00	788.19
2	37.049325	-86.064233	781.28	5.00	786.28
3	37.048949	-86.064217	788.33	5.00	793.33
4	37.048944	-86.063863	755.64	5.00	760.64
5	37.049334	-86.063863	759.72	5.00	764.72
6	37.049325	-86.063273	758.53	5.00	763.53
7	37.046504	-86.063187	756.81	5.00	761.81
8	37.046564	-86.066904	736.42	5.00	741.42
9	37.047763	-86.066851	737.62	5.00	742.62
10	37.047754	-86.066416	748.11	5.00	753.11

Name: 106
Footprint area: 9.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.046508	-86.063187	757.02	5.00	762.02
2	37.045249	-86.063208	733.97	5.00	738.97
3	37.045258	-86.063916	738.69	5.00	743.69
4	37.044714	-86.063916	730.91	5.00	735.91
5	37.044723	-86.066105	740.90	5.00	745.90
6	37.045583	-86.066078	755.32	5.00	760.32
7	37.045570	-86.065236	787.68	5.00	792.68
8	37.046534	-86.065220	797.66	5.00	802.66

Name: 107
Footprint area: 12.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.045583	-86.066089	755.13	5.00	760.13
2	37.043322	-86.066105	722.60	5.00	727.60
3	37.043348	-86.068074	726.69	5.00	731.69
4	37.043537	-86.068074	731.31	5.00	736.31
5	37.043656	-86.068074	734.10	5.00	739.10
6	37.043652	-86.068964	733.35	5.00	738.35
7	37.044765	-86.068964	732.37	5.00	737.37
8	37.044753	-86.068133	738.81	5.00	743.81
9	37.045609	-86.068122	737.35	5.00	742.35

Name: 108
Footprint area: 8.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043849	-86.068964	733.14	5.00	738.14
2	37.043849	-86.069479	730.33	5.00	735.33
3	37.044971	-86.071609	733.42	5.00	738.42
4	37.045412	-86.071588	728.13	5.00	733.13
5	37.045450	-86.072988	707.21	5.00	712.21
6	37.046564	-86.072993	694.16	5.00	699.16
7	37.046564	-86.071845	699.94	5.00	704.94
8	37.046054	-86.071861	710.05	5.00	715.05
9	37.046050	-86.071582	708.60	5.00	713.60
10	37.045626	-86.071582	723.74	5.00	728.74
11	37.044774	-86.069817	727.96	5.00	732.96
12	37.044770	-86.068986	732.18	5.00	737.18

Name: 109
Footprint area: 6.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.049013	-86.075788	678.15	5.00	683.15
2	37.049141	-86.075101	680.55	5.00	685.55
3	37.049556	-86.075058	686.33	5.00	691.33
4	37.049651	-86.074592	692.98	5.00	697.98
5	37.049882	-86.074565	696.07	5.00	701.07
6	37.050147	-86.073814	704.21	5.00	709.21
7	37.050507	-86.073739	710.07	5.00	715.07
8	37.050790	-86.073192	721.04	5.00	726.04
9	37.051736	-86.073202	703.06	5.00	708.06
10	37.050815	-86.075026	678.56	5.00	683.56
11	37.049959	-86.075096	687.99	5.00	692.99
12	37.049813	-86.075826	681.04	5.00	686.04

Name: 110
Footprint area: 2.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.051688	-86.073664	694.83	5.00	699.83
2	37.052422	-86.073627	717.58	5.00	722.58
3	37.052448	-86.074493	704.38	5.00	709.38
4	37.052351	-86.074735	694.28	5.00	699.28
5	37.051579	-86.074756	688.89	5.00	693.89
6	37.051677	-86.074466	694.66	5.00	699.66

Name: 111
Footprint area: 9.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.051503	-86.077049	702.37	5.00	707.37
2	37.050377	-86.077076	678.28	5.00	683.28
3	37.050366	-86.075947	680.22	5.00	685.22
4	37.051490	-86.075920	696.54	5.00	701.54
5	37.051484	-86.075611	696.39	5.00	701.39
6	37.052516	-86.075606	708.99	5.00	713.99
7	37.052507	-86.078339	707.80	5.00	712.80
8	37.051488	-86.078339	699.49	5.00	704.49

Name: 112
Footprint area: 5.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.050972	-86.080160	673.51	5.00	678.51
2	37.050206	-86.080182	662.08	5.00	667.08
3	37.050182	-86.077878	669.76	5.00	674.76
4	37.050957	-86.077872	685.46	5.00	690.46
5	37.050970	-86.079683	674.08	5.00	679.08
6	37.051248	-86.079667	680.92	5.00	685.92
7	37.051244	-86.079501	677.93	5.00	682.93
8	37.051533	-86.079484	691.85	5.00	696.85
9	37.051524	-86.079125	686.21	5.00	691.21
10	37.052308	-86.079109	706.19	5.00	711.19
11	37.052314	-86.079645	715.40	5.00	720.40
12	37.051717	-86.079686	700.71	5.00	705.71
13	37.051726	-86.079948	698.80	5.00	703.80
14	37.050970	-86.079954	675.30	5.00	680.30

Name: 113
Footprint area: 9.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.053704	-86.089857	670.21	5.00	675.21
2	37.053721	-86.088204	677.81	5.00	682.81
3	37.054757	-86.087636	677.17	5.00	682.17
4	37.055433	-86.087625	679.83	5.00	684.83
5	37.055433	-86.088140	670.13	5.00	675.13
6	37.055818	-86.088151	672.55	5.00	677.55
7	37.055827	-86.089610	664.21	5.00	669.21
8	37.054877	-86.089610	681.80	5.00	686.80
9	37.054859	-86.089781	679.72	5.00	684.72

Name: 114
Footprint area: 17.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.053972	-86.093259	664.99	5.00	669.99
2	37.053963	-86.093248	664.96	5.00	669.96
3	37.053997	-86.092208	675.48	5.00	680.48
4	37.053278	-86.092240	640.15	5.00	645.15
5	37.053175	-86.091714	644.41	5.00	649.41
6	37.053193	-86.090899	657.11	5.00	662.11
7	37.056284	-86.090641	671.63	5.00	676.63
8	37.056309	-86.092444	669.39	5.00	674.39
9	37.056951	-86.092454	665.70	5.00	670.70
10	37.056960	-86.093281	661.73	5.00	666.73

Name: 115
Footprint area: 19.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.056960	-86.093270	661.81	5.00	666.81
2	37.053526	-86.093238	656.54	5.00	661.54
3	37.053578	-86.094772	634.19	5.00	639.19
4	37.054691	-86.094750	647.80	5.00	652.80
5	37.054734	-86.096456	621.60	5.00	626.60
6	37.056652	-86.096349	624.69	5.00	629.69
7	37.056652	-86.093989	650.65	5.00	655.65
8	37.056986	-86.093978	650.81	5.00	655.81

Name: 116
Footprint area: 19.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.053285	-86.084820	666.63	5.00	671.63
2	37.053277	-86.083833	676.60	5.00	681.60
3	37.054065	-86.083854	682.09	5.00	687.09
4	37.054082	-86.083264	694.53	5.00	699.53
5	37.054664	-86.083297	685.44	5.00	690.44
6	37.054647	-86.080759	710.38	5.00	715.38
7	37.054326	-86.080743	714.46	5.00	719.46
8	37.054321	-86.079896	714.30	5.00	719.30
9	37.053457	-86.079874	726.82	5.00	731.82
10	37.053461	-86.080346	728.31	5.00	733.31
11	37.052725	-86.080346	716.90	5.00	721.90
12	37.052746	-86.081081	715.64	5.00	720.64
13	37.052489	-86.081081	713.63	5.00	718.63
14	37.052502	-86.084815	672.33	5.00	677.33

Name: 117
Footprint area: 13.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.052478	-86.083651	685.79	5.00	690.79
2	37.052469	-86.081071	713.13	5.00	718.13
3	37.051412	-86.081076	684.01	5.00	689.01
4	37.051407	-86.081237	686.47	5.00	691.47
5	37.050320	-86.081237	659.49	5.00	664.49
6	37.050333	-86.083732	668.37	5.00	673.37

Name: 118
Footprint area: 14.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.052473	-86.083657	685.44	5.00	690.44
2	37.050350	-86.083727	669.13	5.00	674.13
3	37.050371	-86.086688	643.14	5.00	648.14
4	37.051463	-86.086623	663.95	5.00	668.95
5	37.051454	-86.086425	665.73	5.00	670.73
6	37.052212	-86.086425	658.71	5.00	663.71
7	37.052195	-86.085888	667.48	5.00	672.48
8	37.052486	-86.085867	659.39	5.00	664.39

2-Mile Flight Path Receptor(s)

Name: Glasgow Municipal Airport Runway 26
Description:
Threshold height : 50 ft
Direction: 252.2 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.033844	-85.946199	714.75	50.00	764.75
2-mile point	37.042702	-85.911682	732.56	585.62	1318.18

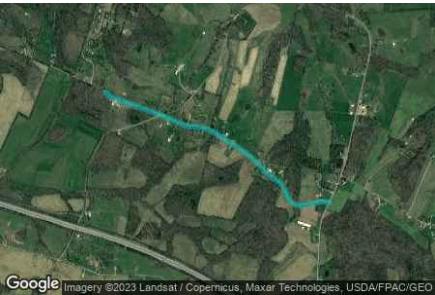
Name: Glasgow Municipal Airport Runway 8
Description:
Threshold height : 50 ft
Direction: 70.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.029484	-85.962314	707.66	50.00	757.66
2-mile point	37.019838	-85.996495	701.55	609.54	1311.09

Route Receptor(s)

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.049113	-86.059294	766.85	5.00	771.85
2	37.049193	-86.059755	771.55	5.00	776.55
3	37.049182	-86.060077	773.15	5.00	778.15
4	37.049058	-86.060713	770.53	5.00	775.53
5	37.048919	-86.061472	760.34	5.00	765.34
6	37.048884	-86.061893	753.94	5.00	758.94
7	37.048961	-86.062379	748.72	5.00	753.72
8	37.049139	-86.062684	755.77	5.00	760.77
9	37.049443	-86.062969	758.73	5.00	763.73
10	37.050008	-86.063261	757.49	5.00	762.49
11	37.050271	-86.063425	761.61	5.00	766.61
12	37.050479	-86.063658	760.41	5.00	765.41
13	37.051102	-86.064728	749.15	5.00	754.15
14	37.051350	-86.065096	744.41	5.00	749.41
15	37.052012	-86.065866	740.01	5.00	745.01
16	37.052369	-86.066364	739.36	5.00	744.36
17	37.052648	-86.066799	737.66	5.00	742.66
18	37.052941	-86.067349	737.97	5.00	742.97
19	37.053249	-86.067968	737.78	5.00	742.78
20	37.053639	-86.068760	730.95	5.00	735.95
21	37.054080	-86.069562	730.20	5.00	735.20
22	37.054315	-86.070297	732.00	5.00	737.00
23	37.054426	-86.070983	728.95	5.00	733.95
24	37.054469	-86.071619	728.15	5.00	733.15
25	37.054574	-86.072179	726.25	5.00	731.25
26	37.055015	-86.073515	727.27	5.00	732.27
27	37.055381	-86.074639	730.25	5.00	735.25
28	37.056117	-86.077203	724.30	5.00	729.30
29	37.056498	-86.078609	720.67	5.00	725.67
30	37.056865	-86.079215	721.43	5.00	726.43

Name: Cumberland Parkway Eastbound
Route type One-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.055543	-86.107021	636.32	5.00	641.32
2	37.053745	-86.103705	661.28	5.00	666.28
3	37.052563	-86.101163	669.26	5.00	674.26
4	37.051536	-86.098502	665.21	5.00	670.21
5	37.050542	-86.095262	659.27	5.00	664.27
6	37.049549	-86.091271	659.29	5.00	664.29
7	37.047631	-86.083353	682.24	5.00	687.24
8	37.046372	-86.078235	725.16	5.00	730.16
9	37.045525	-86.075424	730.89	5.00	735.89
10	37.044779	-86.073300	726.90	5.00	731.90
11	37.043641	-86.070392	721.53	5.00	726.53
12	37.042776	-86.068601	718.54	5.00	723.54
13	37.041628	-86.066391	728.45	5.00	733.45
14	37.040600	-86.064577	742.40	5.00	747.40
15	37.039658	-86.063086	743.77	5.00	748.77
16	37.038776	-86.061756	743.53	5.00	748.53
17	37.037689	-86.060232	743.33	5.00	748.33

Name: Cumberland Parkway Westbound
Route type One-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037886	-86.060211	743.65	5.00	748.65
2	37.038871	-86.061605	743.44	5.00	748.44
3	37.039821	-86.062968	744.78	5.00	749.78
4	37.040746	-86.064470	743.98	5.00	748.98
5	37.041782	-86.066273	729.30	5.00	734.30
6	37.042913	-86.068493	718.64	5.00	723.64
7	37.043765	-86.070328	723.11	5.00	728.11
8	37.044976	-86.073278	727.38	5.00	732.38
9	37.045670	-86.075349	730.91	5.00	735.91
10	37.046552	-86.078203	725.50	5.00	730.50
11	37.047794	-86.083321	681.04	5.00	686.04
12	37.049720	-86.091249	659.37	5.00	664.37
13	37.050671	-86.095219	659.11	5.00	664.11
14	37.051690	-86.098459	665.27	5.00	670.27
15	37.052734	-86.101130	668.95	5.00	673.95
16	37.053890	-86.103641	661.05	5.00	666.05
17	37.055646	-86.106838	638.97	5.00	643.97

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.060884	-86.068319	660.82	5.00	665.82
2	37.060126	-86.068640	667.53	5.00	672.53
3	37.059163	-86.068968	695.01	5.00	700.01
4	37.058722	-86.069198	699.12	5.00	704.12
5	37.058324	-86.069472	710.62	5.00	715.62
6	37.057618	-86.070336	714.88	5.00	719.88
7	37.056513	-86.071500	701.38	5.00	706.38
8	37.056042	-86.072036	720.28	5.00	725.28
9	37.055773	-86.072460	715.53	5.00	720.53
10	37.055516	-86.073077	715.04	5.00	720.04
11	37.055362	-86.073554	724.49	5.00	729.49
12	37.055216	-86.074010	732.32	5.00	737.32
13	37.055238	-86.074262	731.61	5.00	736.61
14	37.055032	-86.074863	724.50	5.00	729.50
15	37.054390	-86.077046	718.38	5.00	723.38
16	37.054202	-86.077814	726.69	5.00	731.69
17	37.053966	-86.079037	721.09	5.00	726.09
18	37.053821	-86.079246	723.60	5.00	728.60
19	37.051770	-86.080565	689.86	5.00	694.86
20	37.051496	-86.080700	684.42	5.00	689.42
21	37.050909	-86.080839	671.34	5.00	676.34
22	37.049312	-86.081043	671.29	5.00	676.29
23	37.048452	-86.081161	679.68	5.00	684.68
24	37.048319	-86.081198	681.40	5.00	686.40
25	37.047471	-86.081676	687.56	5.00	692.56

Name: Park City Bon Ayr Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037903	-86.060125	747.85	5.00	752.85
2	37.038982	-86.059953	756.39	5.00	761.39
3	37.040104	-86.060028	756.22	5.00	761.22
4	37.041508	-86.060254	770.75	5.00	775.75
5	37.042801	-86.060329	762.84	5.00	767.84
6	37.044822	-86.060254	762.04	5.00	767.04
7	37.047246	-86.060103	749.65	5.00	754.65
8	37.047948	-86.059942	751.67	5.00	756.67
9	37.048975	-86.059352	763.66	5.00	768.66
10	37.050260	-86.058558	772.87	5.00	777.87
11	37.051236	-86.058097	764.24	5.00	769.24
12	37.051921	-86.057829	745.11	5.00	750.11
13	37.053796	-86.057303	723.34	5.00	728.34
14	37.057127	-86.056370	693.49	5.00	698.49
15	37.059490	-86.055705	670.94	5.00	675.94
16	37.060372	-86.055576	697.73	5.00	702.73
17	37.060945	-86.055715	715.92	5.00	720.92
18	37.061459	-86.056144	717.32	5.00	722.32

Name: R Crump C Bellamy Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.048054	-86.081402	678.48	5.00	683.48
2	37.048268	-86.081842	671.15	5.00	676.15
3	37.048349	-86.083607	672.99	5.00	677.99
4	37.049000	-86.086794	658.89	5.00	663.89
5	37.049381	-86.088457	660.81	5.00	665.81
6	37.049591	-86.088854	658.77	5.00	663.77
7	37.049852	-86.089031	653.35	5.00	658.35
8	37.050233	-86.089127	640.52	5.00	645.52
9	37.051230	-86.089197	638.23	5.00	643.23
10	37.051500	-86.089283	640.94	5.00	645.94
11	37.052052	-86.089572	642.26	5.00	647.26
12	37.052455	-86.089808	642.63	5.00	647.63
13	37.053071	-86.090254	654.32	5.00	659.32
14	37.053431	-86.090366	668.75	5.00	673.75
15	37.053701	-86.090382	678.07	5.00	683.07
16	37.054244	-86.090297	683.40	5.00	688.40
17	37.055653	-86.090028	666.28	5.00	671.28
18	37.056175	-86.089942	662.57	5.00	667.57
19	37.056398	-86.089964	658.56	5.00	663.56
20	37.058650	-86.090747	652.78	5.00	657.78
21	37.059172	-86.090897	669.54	5.00	674.54
22	37.060953	-86.091327	667.19	5.00	672.19

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	37.011816	-85.904852	831.81	500.00	1331.81
OP 2	37.060481	-86.054912	706.39	16.00	722.39
OP 3	37.058276	-86.056317	681.01	16.00	697.01
OP 4	37.060950	-86.056097	717.72	16.00	733.72
OP 5	37.055491	-86.056306	714.87	16.00	730.87
OP 6	37.054519	-86.056698	730.11	16.00	746.11
OP 7	37.053521	-86.058012	734.81	16.00	750.81
OP 8	37.052271	-86.058130	748.59	16.00	764.59
OP 9	37.050961	-86.057320	766.40	16.00	782.40
OP 10	37.050529	-86.058044	777.61	16.00	793.61
OP 11	37.049762	-86.059460	778.92	16.00	794.92
OP 12	37.048743	-86.060104	769.74	16.00	785.74
OP 13	37.050404	-86.063156	767.86	16.00	783.86
OP 14	37.050238	-86.063763	762.53	16.00	778.53
OP 15	37.051017	-86.063441	767.19	16.00	783.19
OP 16	37.051184	-86.063704	761.41	16.00	777.41
OP 17	37.050863	-86.065114	751.66	16.00	767.66
OP 18	37.051402	-86.065683	752.57	16.00	768.57
OP 19	37.052618	-86.065592	746.94	16.00	762.94
OP 20	37.052759	-86.068108	744.22	16.00	760.22
OP 21	37.054029	-86.070908	738.56	16.00	754.56
OP 22	37.054071	-86.070192	734.63	16.00	750.63
OP 23	37.053971	-86.071412	739.38	16.00	755.38
OP 24	37.055202	-86.070966	740.17	16.00	756.17
OP 25	37.055287	-86.071899	734.62	16.00	750.62
OP 26	37.053874	-86.073321	731.49	16.00	747.49
OP 27	37.053864	-86.077649	735.53	16.00	751.53
OP 28	37.051328	-86.088383	657.38	16.00	673.38
OP 29	37.048539	-86.080661	687.09	16.00	703.09
OP 30	37.046493	-86.081439	701.17	16.00	717.17
OP 31	37.043720	-86.076072	735.07	16.00	751.07
OP 32	37.044272	-86.078060	740.33	16.00	756.33
OP 33	37.043446	-86.060683	767.77	16.00	783.77
OP 34	37.051295	-86.091385	673.75	16.00	689.75
OP 35	37.043270	-86.072800	737.71	16.00	753.71
OP 36	37.046460	-86.060576	768.45	16.00	784.45
OP 37	37.061617	-86.066793	680.64	16.00	696.64
OP 38	37.061176	-86.068477	661.59	16.00	677.59
OP 39	37.056279	-86.072313	716.38	16.00	732.38
OP 40	37.056048	-86.070865	725.34	16.00	741.34

Summary of PV Glare Analysis

PV configuration and total predicted glare

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

PV & Receptor Analysis Results

Results for each PV array and receptor

101 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

108 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

110 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

111 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

112 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

115 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

117 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

118 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Assumptions

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

Wood Duck

Block 1 9ft vehicle

Created Apr 26, 2023
Updated Apr 27, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 89197.15739

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

Misc. Analysis Settings

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

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

Summary of Results No glare predicted!

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

Component Data

PV Array(s)

Total PV footprint area: 216.2 acres

Name: 101 Footprint area: 11.1 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad 	Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
		deg	deg	ft	ft	ft
	1	37.060192	-86.067809	674.39	5.00	679.39
	2	37.060192	-86.066801	688.88	5.00	693.88
	3	37.059901	-86.066779	690.63	5.00	695.63
	4	37.059927	-86.066076	684.71	5.00	689.71
	5	37.059216	-86.066071	700.58	5.00	705.58
	6	37.059212	-86.066650	696.61	5.00	701.61
	7	37.058377	-86.066640	712.15	5.00	717.15
	8	37.058368	-86.066988	710.97	5.00	715.97
	9	37.057838	-86.066988	715.27	5.00	720.27
	10	37.057829	-86.067584	717.83	5.00	722.83
	11	37.057213	-86.067578	720.16	5.00	725.16
	12	37.057217	-86.067788	719.29	5.00	724.29
	13	37.057003	-86.067788	722.30	5.00	727.30
	14	37.057007	-86.067949	721.80	5.00	726.80
	15	37.057007	-86.068281	718.14	5.00	723.14
	16	37.056215	-86.068297	736.49	5.00	741.49
	17	37.056219	-86.068678	733.02	5.00	738.02
	18	37.057003	-86.068662	711.82	5.00	716.82
	19	37.057011	-86.068909	713.98	5.00	718.98
	20	37.057966	-86.068903	710.14	5.00	715.14
	21	37.057970	-86.067975	711.47	5.00	716.47
	22	37.059122	-86.067981	681.20	5.00	686.20
	23	37.059126	-86.067755	686.93	5.00	691.93

Name: 102 Footprint area: 6.2 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad 	Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
		deg	deg	ft	ft	ft
	1	37.054888	-86.068037	732.82	5.00	737.82
	2	37.054207	-86.068059	742.13	5.00	747.13
	3	37.054203	-86.067490	744.45	5.00	749.45
	4	37.053484	-86.067495	735.92	5.00	740.92
	5	37.053471	-86.066648	726.37	5.00	731.37
	6	37.054186	-86.066658	735.49	5.00	740.49
	7	37.054190	-86.066444	731.81	5.00	736.81
	8	37.054533	-86.066449	731.65	5.00	736.65
	9	37.054533	-86.066176	722.46	5.00	727.46
	10	37.055363	-86.066154	723.89	5.00	728.89
	11	37.055363	-86.067823	728.56	5.00	733.56
	12	37.054884	-86.067828	728.32	5.00	733.32

Name: 103
Footprint area: 7.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.051778	-86.068905	733.27	5.00	738.27
2	37.051783	-86.069168	731.94	5.00	736.94
3	37.051522	-86.070241	731.02	5.00	736.02
4	37.051560	-86.071791	734.22	5.00	739.22
5	37.051278	-86.071797	737.59	5.00	742.59
6	37.051278	-86.072097	735.49	5.00	740.49
7	37.050366	-86.072103	726.89	5.00	731.89
8	37.050349	-86.070397	730.25	5.00	735.25
9	37.050571	-86.070391	733.23	5.00	738.23
10	37.050999	-86.068895	769.51	5.00	774.51

Name: 104
Footprint area: 20.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.051016	-86.067398	736.88	5.00	741.88
2	37.050417	-86.067403	739.29	5.00	744.29
3	37.050408	-86.066518	741.11	5.00	746.11
4	37.049325	-86.066513	773.06	5.00	778.06
5	37.049317	-86.066706	762.50	5.00	767.50
6	37.048388	-86.066738	748.85	5.00	753.85
7	37.048371	-86.067060	742.25	5.00	747.25
8	37.048204	-86.067082	741.21	5.00	746.21
9	37.048186	-86.070418	721.49	5.00	726.49
10	37.050053	-86.070322	719.04	5.00	724.04
11	37.050053	-86.069850	725.28	5.00	730.28
12	37.050340	-86.069860	739.02	5.00	744.02
13	37.050370	-86.068272	742.48	5.00	747.48
14	37.051025	-86.068251	752.49	5.00	757.49

Name: 105
Footprint area: 21.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.049325	-86.066336	783.19	5.00	788.19
2	37.049325	-86.064233	781.28	5.00	786.28
3	37.048949	-86.064217	788.33	5.00	793.33
4	37.048944	-86.063863	755.64	5.00	760.64
5	37.049334	-86.063863	759.72	5.00	764.72
6	37.049325	-86.063273	758.53	5.00	763.53
7	37.046504	-86.063187	756.81	5.00	761.81
8	37.046564	-86.066904	736.42	5.00	741.42
9	37.047763	-86.066851	737.62	5.00	742.62
10	37.047754	-86.066416	748.11	5.00	753.11

Name: 106
Footprint area: 9.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.046508	-86.063187	757.02	5.00	762.02
2	37.045249	-86.063208	733.97	5.00	738.97
3	37.045258	-86.063916	738.69	5.00	743.69
4	37.044714	-86.063916	730.91	5.00	735.91
5	37.044723	-86.066105	740.90	5.00	745.90
6	37.045583	-86.066078	755.32	5.00	760.32
7	37.045570	-86.065236	787.68	5.00	792.68
8	37.046534	-86.065220	797.66	5.00	802.66

Name: 107
Footprint area: 12.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.045583	-86.066089	755.13	5.00	760.13
2	37.043322	-86.066105	722.60	5.00	727.60
3	37.043348	-86.068074	726.69	5.00	731.69
4	37.043537	-86.068074	731.31	5.00	736.31
5	37.043656	-86.068074	734.10	5.00	739.10
6	37.043652	-86.068964	733.35	5.00	738.35
7	37.044765	-86.068964	732.37	5.00	737.37
8	37.044753	-86.068133	738.81	5.00	743.81
9	37.045609	-86.068122	737.35	5.00	742.35

Name: 108
Footprint area: 8.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043849	-86.068964	733.14	5.00	738.14
2	37.043849	-86.069479	730.33	5.00	735.33
3	37.044971	-86.071609	733.42	5.00	738.42
4	37.045412	-86.071588	728.13	5.00	733.13
5	37.045450	-86.072988	707.21	5.00	712.21
6	37.046564	-86.072993	694.16	5.00	699.16
7	37.046564	-86.071845	699.94	5.00	704.94
8	37.046054	-86.071861	710.05	5.00	715.05
9	37.046050	-86.071582	708.60	5.00	713.60
10	37.045626	-86.071582	723.74	5.00	728.74
11	37.044774	-86.069817	727.96	5.00	732.96
12	37.044770	-86.068986	732.18	5.00	737.18

Name: 109
Footprint area: 6.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.049013	-86.075788	678.15	5.00	683.15
2	37.049141	-86.075101	680.55	5.00	685.55
3	37.049556	-86.075058	686.33	5.00	691.33
4	37.049651	-86.074592	692.98	5.00	697.98
5	37.049882	-86.074565	696.07	5.00	701.07
6	37.050147	-86.073814	704.21	5.00	709.21
7	37.050507	-86.073739	710.07	5.00	715.07
8	37.050790	-86.073192	721.04	5.00	726.04
9	37.051736	-86.073202	703.06	5.00	708.06
10	37.050815	-86.075026	678.56	5.00	683.56
11	37.049959	-86.075096	687.99	5.00	692.99
12	37.049813	-86.075826	681.04	5.00	686.04

Name: 110
Footprint area: 2.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.051688	-86.073664	694.83	5.00	699.83
2	37.052422	-86.073627	717.58	5.00	722.58
3	37.052448	-86.074493	704.38	5.00	709.38
4	37.052351	-86.074735	694.28	5.00	699.28
5	37.051579	-86.074756	688.89	5.00	693.89
6	37.051677	-86.074466	694.66	5.00	699.66

Name: 111
Footprint area: 9.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.051503	-86.077049	702.37	5.00	707.37
2	37.050377	-86.077076	678.28	5.00	683.28
3	37.050366	-86.075947	680.22	5.00	685.22
4	37.051490	-86.075920	696.54	5.00	701.54
5	37.051484	-86.075611	696.39	5.00	701.39
6	37.052516	-86.075606	708.99	5.00	713.99
7	37.052507	-86.078339	707.80	5.00	712.80
8	37.051488	-86.078339	699.49	5.00	704.49

Name: 112
Footprint area: 5.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.050972	-86.080160	673.51	5.00	678.51
2	37.050206	-86.080182	662.08	5.00	667.08
3	37.050182	-86.077878	669.76	5.00	674.76
4	37.050957	-86.077872	685.46	5.00	690.46
5	37.050970	-86.079683	674.08	5.00	679.08
6	37.051248	-86.079667	680.92	5.00	685.92
7	37.051244	-86.079501	677.93	5.00	682.93
8	37.051533	-86.079484	691.85	5.00	696.85
9	37.051524	-86.079125	686.21	5.00	691.21
10	37.052308	-86.079109	706.19	5.00	711.19
11	37.052314	-86.079645	715.40	5.00	720.40
12	37.051717	-86.079686	700.71	5.00	705.71
13	37.051726	-86.079948	698.80	5.00	703.80
14	37.050970	-86.079954	675.30	5.00	680.30

Name: 113
Footprint area: 9.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.053704	-86.089857	670.21	5.00	675.21
2	37.053721	-86.088204	677.81	5.00	682.81
3	37.054757	-86.087636	677.17	5.00	682.17
4	37.055433	-86.087625	679.83	5.00	684.83
5	37.055433	-86.088140	670.13	5.00	675.13
6	37.055818	-86.088151	672.55	5.00	677.55
7	37.055827	-86.089610	664.21	5.00	669.21
8	37.054877	-86.089610	681.80	5.00	686.80
9	37.054859	-86.089781	679.72	5.00	684.72

Name: 114
Footprint area: 17.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.053972	-86.093259	664.99	5.00	669.99
2	37.053963	-86.093248	664.96	5.00	669.96
3	37.053997	-86.092208	675.48	5.00	680.48
4	37.053278	-86.092240	640.15	5.00	645.15
5	37.053175	-86.091714	644.41	5.00	649.41
6	37.053193	-86.090899	657.11	5.00	662.11
7	37.056284	-86.090641	671.63	5.00	676.63
8	37.056309	-86.092444	669.39	5.00	674.39
9	37.056951	-86.092454	665.70	5.00	670.70
10	37.056960	-86.093281	661.73	5.00	666.73

Name: 115
Footprint area: 19.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.056960	-86.093270	661.81	5.00	666.81
2	37.053526	-86.093238	656.54	5.00	661.54
3	37.053578	-86.094772	634.19	5.00	639.19
4	37.054691	-86.094750	647.80	5.00	652.80
5	37.054734	-86.096456	621.60	5.00	626.60
6	37.056652	-86.096349	624.69	5.00	629.69
7	37.056652	-86.093989	650.65	5.00	655.65
8	37.056986	-86.093978	650.81	5.00	655.81

Name: 116
Footprint area: 19.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.053285	-86.084820	666.63	5.00	671.63
2	37.053277	-86.083833	676.60	5.00	681.60
3	37.054065	-86.083854	682.09	5.00	687.09
4	37.054082	-86.083264	694.53	5.00	699.53
5	37.054664	-86.083297	685.44	5.00	690.44
6	37.054647	-86.080759	710.38	5.00	715.38
7	37.054326	-86.080743	714.46	5.00	719.46
8	37.054321	-86.079896	714.30	5.00	719.30
9	37.053457	-86.079874	726.82	5.00	731.82
10	37.053461	-86.080346	728.31	5.00	733.31
11	37.052725	-86.080346	716.90	5.00	721.90
12	37.052746	-86.081081	715.64	5.00	720.64
13	37.052489	-86.081081	713.63	5.00	718.63
14	37.052502	-86.084815	672.33	5.00	677.33

Name: 117
Footprint area: 13.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.052478	-86.083651	685.79	5.00	690.79
2	37.052469	-86.081071	713.13	5.00	718.13
3	37.051412	-86.081076	684.01	5.00	689.01
4	37.051407	-86.081237	686.47	5.00	691.47
5	37.050320	-86.081237	659.49	5.00	664.49
6	37.050333	-86.083732	668.37	5.00	673.37

Name: 118
Footprint area: 14.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.052473	-86.083657	685.44	5.00	690.44
2	37.050350	-86.083727	669.13	5.00	674.13
3	37.050371	-86.086688	643.14	5.00	648.14
4	37.051463	-86.086623	663.95	5.00	668.95
5	37.051454	-86.086425	665.73	5.00	670.73
6	37.052212	-86.086425	658.71	5.00	663.71
7	37.052195	-86.085888	667.48	5.00	672.48
8	37.052486	-86.085867	659.39	5.00	664.39

2-Mile Flight Path Receptor(s)

Name: Glasgow Municipal Airport Runway 26
Description:
Threshold height : 50 ft
Direction: 252.2 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.033844	-85.946199	714.75	50.00	764.75
2-mile point	37.042702	-85.911682	732.56	585.62	1318.18

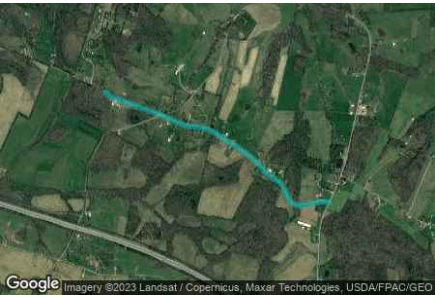
Name: Glasgow Municipal Airport Runway 8
Description:
Threshold height : 50 ft
Direction: 70.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.029484	-85.962314	707.66	50.00	757.66
2-mile point	37.019838	-85.996495	701.55	609.54	1311.09

Route Receptor(s)

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.049113	-86.059294	766.85	9.00	775.85
2	37.049193	-86.059755	771.55	9.00	780.55
3	37.049182	-86.060077	773.15	9.00	782.15
4	37.049058	-86.060713	770.53	9.00	779.53
5	37.048919	-86.061472	760.34	9.00	769.34
6	37.048884	-86.061893	753.94	9.00	762.94
7	37.048961	-86.062379	748.72	9.00	757.72
8	37.049139	-86.062684	755.77	9.00	764.77
9	37.049443	-86.062969	758.73	9.00	767.73
10	37.050008	-86.063261	757.49	9.00	766.49
11	37.050271	-86.063425	761.61	9.00	770.61
12	37.050479	-86.063658	760.41	9.00	769.41
13	37.051102	-86.064728	749.15	9.00	758.15
14	37.051350	-86.065096	744.41	9.00	753.41
15	37.052012	-86.065866	740.01	9.00	749.01
16	37.052369	-86.066364	739.36	9.00	748.36
17	37.052648	-86.066799	737.66	9.00	746.66
18	37.052941	-86.067349	737.97	9.00	746.97
19	37.053249	-86.067968	737.78	9.00	746.78
20	37.053639	-86.068760	730.95	9.00	739.95
21	37.054080	-86.069562	730.20	9.00	739.20
22	37.054315	-86.070297	732.00	9.00	741.00
23	37.054426	-86.070983	728.95	9.00	737.95
24	37.054469	-86.071619	728.15	9.00	737.15
25	37.054574	-86.072179	726.25	9.00	735.25
26	37.055015	-86.073515	727.27	9.00	736.27
27	37.055381	-86.074639	730.25	9.00	739.25
28	37.056117	-86.077203	724.30	9.00	733.30
29	37.056498	-86.078609	720.67	9.00	729.67
30	37.056865	-86.079215	721.43	9.00	730.43

Name: Cumberland Parkway Eastbound
Route type One-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.055543	-86.107021	636.32	9.00	645.32
2	37.053745	-86.103705	661.28	9.00	670.28
3	37.052563	-86.101163	669.26	9.00	678.26
4	37.051536	-86.098502	665.21	9.00	674.21
5	37.050542	-86.095262	659.27	9.00	668.27
6	37.049549	-86.091271	659.29	9.00	668.29
7	37.047631	-86.083353	682.24	9.00	691.24
8	37.046372	-86.078235	725.16	9.00	734.16
9	37.045525	-86.075424	730.89	9.00	739.89
10	37.044779	-86.073300	726.90	9.00	735.90
11	37.043641	-86.070392	721.53	9.00	730.53
12	37.042776	-86.068601	718.54	9.00	727.54
13	37.041628	-86.066391	728.45	9.00	737.45
14	37.040600	-86.064577	742.40	9.00	751.40
15	37.039658	-86.063086	743.77	9.00	752.77
16	37.038776	-86.061756	743.53	9.00	752.53
17	37.037689	-86.060232	743.33	9.00	752.33

Name: Cumberland Parkway Westbound
Route type One-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037886	-86.060211	743.65	9.00	752.65
2	37.038871	-86.061605	743.44	9.00	752.44
3	37.039821	-86.062968	744.78	9.00	753.78
4	37.040746	-86.064470	743.98	9.00	752.98
5	37.041782	-86.066273	729.30	9.00	738.30
6	37.042913	-86.068493	718.64	9.00	727.64
7	37.043765	-86.070328	723.11	9.00	732.11
8	37.044976	-86.073278	727.38	9.00	736.38
9	37.045670	-86.075349	730.91	9.00	739.91
10	37.046552	-86.078203	725.50	9.00	734.50
11	37.047794	-86.083321	681.04	9.00	690.04
12	37.049720	-86.091249	659.37	9.00	668.37
13	37.050671	-86.095219	659.11	9.00	668.11
14	37.051690	-86.098459	665.27	9.00	674.27
15	37.052734	-86.101130	668.95	9.00	677.95
16	37.053890	-86.103641	661.05	9.00	670.05
17	37.055646	-86.106838	638.97	9.00	647.97

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.060884	-86.068319	660.82	9.00	669.82
2	37.060126	-86.068640	667.53	9.00	676.53
3	37.059163	-86.068968	695.01	9.00	704.01
4	37.058722	-86.069198	699.12	9.00	708.12
5	37.058324	-86.069472	710.62	9.00	719.62
6	37.057618	-86.070336	714.88	9.00	723.88
7	37.056513	-86.071500	701.38	9.00	710.38
8	37.056042	-86.072036	720.28	9.00	729.28
9	37.055773	-86.072460	715.53	9.00	724.53
10	37.055516	-86.073077	715.04	9.00	724.04
11	37.055362	-86.073554	724.49	9.00	733.49
12	37.055216	-86.074010	732.32	9.00	741.32
13	37.055238	-86.074262	731.61	9.00	740.61
14	37.055032	-86.074863	724.50	9.00	733.50
15	37.054390	-86.077046	718.38	9.00	727.38
16	37.054202	-86.077814	726.69	9.00	735.69
17	37.053966	-86.079037	721.09	9.00	730.09
18	37.053821	-86.079246	723.60	9.00	732.60
19	37.051770	-86.080565	689.86	9.00	698.86
20	37.051496	-86.080700	684.42	9.00	693.42
21	37.050909	-86.080839	671.34	9.00	680.34
22	37.049312	-86.081043	671.29	9.00	680.29
23	37.048452	-86.081161	679.68	9.00	688.68
24	37.048319	-86.081198	681.40	9.00	690.40
25	37.047471	-86.081676	687.56	9.00	696.56

Name: Park City Bon Ayr Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037903	-86.060125	747.85	9.00	756.85
2	37.038982	-86.059953	756.39	9.00	765.39
3	37.040104	-86.060028	756.22	9.00	765.22
4	37.041508	-86.060254	770.75	9.00	779.75
5	37.042801	-86.060329	762.84	9.00	771.84
6	37.044822	-86.060254	762.04	9.00	771.04
7	37.047246	-86.060103	749.65	9.00	758.65
8	37.047948	-86.059942	751.67	9.00	760.67
9	37.048975	-86.059352	763.66	9.00	772.66
10	37.050260	-86.058558	772.87	9.00	781.87
11	37.051236	-86.058097	764.24	9.00	773.24
12	37.051921	-86.057829	745.11	9.00	754.11
13	37.053796	-86.057303	723.34	9.00	732.34
14	37.057127	-86.056370	693.49	9.00	702.49
15	37.059490	-86.055705	670.94	9.00	679.94
16	37.060372	-86.055576	697.73	9.00	706.73
17	37.060945	-86.055715	715.92	9.00	724.92
18	37.061459	-86.056144	717.32	9.00	726.32

Name: R Crump C Bellamy Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.048054	-86.081402	678.48	9.00	687.48
2	37.048268	-86.081842	671.15	9.00	680.15
3	37.048349	-86.083607	672.99	9.00	681.99
4	37.049000	-86.086794	658.89	9.00	667.89
5	37.049381	-86.088457	660.81	9.00	669.81
6	37.049591	-86.088854	658.77	9.00	667.77
7	37.049852	-86.089031	653.35	9.00	662.35
8	37.050233	-86.089127	640.52	9.00	649.52
9	37.051230	-86.089197	638.23	9.00	647.23
10	37.051500	-86.089283	640.94	9.00	649.94
11	37.052052	-86.089572	642.26	9.00	651.26
12	37.052455	-86.089808	642.63	9.00	651.63
13	37.053071	-86.090254	654.32	9.00	663.32
14	37.053431	-86.090366	668.75	9.00	677.75
15	37.053701	-86.090382	678.07	9.00	687.07
16	37.054244	-86.090297	683.40	9.00	692.40
17	37.055653	-86.090028	666.28	9.00	675.28
18	37.056175	-86.089942	662.57	9.00	671.57
19	37.056398	-86.089964	658.56	9.00	667.56
20	37.058650	-86.090747	652.78	9.00	661.78
21	37.059172	-86.090897	669.54	9.00	678.54
22	37.060953	-86.091327	667.19	9.00	676.19

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	37.011816	-85.904852	831.81	500.00	1331.81
OP 2	37.060481	-86.054912	706.39	16.00	722.39
OP 3	37.058276	-86.056317	681.01	16.00	697.01
OP 4	37.060950	-86.056097	717.72	16.00	733.72
OP 5	37.055491	-86.056306	714.87	16.00	730.87
OP 6	37.054519	-86.056698	730.11	16.00	746.11
OP 7	37.053521	-86.058012	734.81	16.00	750.81
OP 8	37.052271	-86.058130	748.59	16.00	764.59
OP 9	37.050961	-86.057320	766.40	16.00	782.40
OP 10	37.050529	-86.058044	777.61	16.00	793.61
OP 11	37.049762	-86.059460	778.92	16.00	794.92
OP 12	37.048743	-86.060104	769.74	16.00	785.74
OP 13	37.050404	-86.063156	767.86	16.00	783.86
OP 14	37.050238	-86.063763	762.53	16.00	778.53
OP 15	37.051017	-86.063441	767.19	16.00	783.19
OP 16	37.051184	-86.063704	761.41	16.00	777.41
OP 17	37.050863	-86.065114	751.66	16.00	767.66
OP 18	37.051402	-86.065683	752.57	16.00	768.57
OP 19	37.052618	-86.065592	746.94	16.00	762.94
OP 20	37.052759	-86.068108	744.22	16.00	760.22
OP 21	37.054029	-86.070908	738.56	16.00	754.56
OP 22	37.054071	-86.070192	734.63	16.00	750.63
OP 23	37.053971	-86.071412	739.38	16.00	755.38
OP 24	37.055202	-86.070966	740.17	16.00	756.17
OP 25	37.055287	-86.071899	734.62	16.00	750.62
OP 26	37.053874	-86.073321	731.49	16.00	747.49
OP 27	37.053864	-86.077649	735.53	16.00	751.53
OP 28	37.051328	-86.088383	657.38	16.00	673.38
OP 29	37.048539	-86.080661	687.09	16.00	703.09
OP 30	37.046493	-86.081439	701.17	16.00	717.17
OP 31	37.043720	-86.076072	735.07	16.00	751.07
OP 32	37.044272	-86.078060	740.33	16.00	756.33
OP 33	37.043446	-86.060683	767.77	16.00	783.77
OP 34	37.051295	-86.091385	673.75	16.00	689.75
OP 35	37.043270	-86.072800	737.71	16.00	753.71
OP 36	37.046460	-86.060576	768.45	16.00	784.45
OP 37	37.061617	-86.066793	680.64	16.00	696.64
OP 38	37.061176	-86.068477	661.59	16.00	677.59
OP 39	37.056279	-86.072313	716.38	16.00	732.38
OP 40	37.056048	-86.070865	725.34	16.00	741.34

Summary of PV Glare Analysis

PV configuration and total predicted glare

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

PV & Receptor Analysis Results

Results for each PV array and receptor

101 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

108 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

110 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

111 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

112 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

115 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

116 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

117 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

118 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Park City Bon Ayr Road	0	0
Route: R Crump C Bellamy Road	0	0

Assumptions

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

Wood Duck

Block 2 5ft vehicle v2

Created May 31, 2023
Updated May 31, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 91923.15739

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

Misc. Analysis Settings

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

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
201	SA tracking	SA tracking	0	0	-
202	SA tracking	SA tracking	0	0	-
203	SA tracking	SA tracking	0	0	-
204	SA tracking	SA tracking	0	0	-
205	SA tracking	SA tracking	0	0	-
206	SA tracking	SA tracking	0	0	-
207	SA tracking	SA tracking	0	0	-
208	SA tracking	SA tracking	0	0	-
209	SA tracking	SA tracking	0	0	-
210	SA tracking	SA tracking	0	0	-
211	SA tracking	SA tracking	0	0	-
212	SA tracking	SA tracking	0	0	-
213	SA tracking	SA tracking	0	0	-
214	SA tracking	SA tracking	0	0	-
215	SA tracking	SA tracking	0	0	-
216	SA tracking	SA tracking	0	0	-
217	SA tracking	SA tracking	0	0	-
218	SA tracking	SA tracking	0	0	-
219	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 156.0 acres

Name: 201 Footprint area: 12.8 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad			<table><tr><th>Vertex</th><th>Latitude</th><th>Longitude</th><th>Ground elevation</th><th>Height above ground</th><th>Total elevation</th></tr><tr><td></td><td>deg</td><td>deg</td><td>ft</td><td>ft</td><td>ft</td></tr><tr><td>1</td><td>37.048564</td><td>-86.056397</td><td>747.45</td><td>5.00</td><td>752.45</td></tr><tr><td>2</td><td>37.047516</td><td>-86.056467</td><td>748.43</td><td>5.00</td><td>753.43</td></tr><tr><td>3</td><td>37.047537</td><td>-86.057373</td><td>747.19</td><td>5.00</td><td>752.19</td></tr><tr><td>4</td><td>37.046347</td><td>-86.057406</td><td>751.33</td><td>5.00</td><td>756.33</td></tr><tr><td>5</td><td>37.046336</td><td>-86.054077</td><td>747.34</td><td>5.00</td><td>752.34</td></tr><tr><td>6</td><td>37.047505</td><td>-86.054080</td><td>745.38</td><td>5.00</td><td>750.38</td></tr><tr><td>7</td><td>37.047501</td><td>-86.054943</td><td>742.14</td><td>5.00</td><td>747.14</td></tr><tr><td>8</td><td>37.048209</td><td>-86.054935</td><td>747.69</td><td>5.00</td><td>752.69</td></tr><tr><td>9</td><td>37.048558</td><td>-86.055579</td><td>747.93</td><td>5.00</td><td>752.93</td></tr></table>			Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation		deg	deg	ft	ft	ft	1	37.048564	-86.056397	747.45	5.00	752.45	2	37.047516	-86.056467	748.43	5.00	753.43	3	37.047537	-86.057373	747.19	5.00	752.19	4	37.046347	-86.057406	751.33	5.00	756.33	5	37.046336	-86.054077	747.34	5.00	752.34	6	37.047505	-86.054080	745.38	5.00	750.38	7	37.047501	-86.054943	742.14	5.00	747.14	8	37.048209	-86.054935	747.69	5.00	752.69	9	37.048558	-86.055579	747.93	5.00	752.93
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation																																																																		
	deg	deg	ft	ft	ft																																																																		
1	37.048564	-86.056397	747.45	5.00	752.45																																																																		
2	37.047516	-86.056467	748.43	5.00	753.43																																																																		
3	37.047537	-86.057373	747.19	5.00	752.19																																																																		
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6	37.047505	-86.054080	745.38	5.00	750.38																																																																		
7	37.047501	-86.054943	742.14	5.00	747.14																																																																		
8	37.048209	-86.054935	747.69	5.00	752.69																																																																		
9	37.048558	-86.055579	747.93	5.00	752.93																																																																		
																																																																							
Name: 202 Footprint area: 6.1 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad			<table><tr><th>Vertex</th><th>Latitude</th><th>Longitude</th><th>Ground elevation</th><th>Height above ground</th><th>Total elevation</th></tr><tr><td></td><td>deg</td><td>deg</td><td>ft</td><td>ft</td><td>ft</td></tr><tr><td>1</td><td>37.045218</td><td>-86.053039</td><td>760.70</td><td>5.00</td><td>765.70</td></tr><tr><td>2</td><td>37.045214</td><td>-86.050957</td><td>735.33</td><td>5.00</td><td>740.33</td></tr><tr><td>3</td><td>37.044019</td><td>-86.050931</td><td>751.08</td><td>5.00</td><td>756.08</td></tr><tr><td>4</td><td>37.044023</td><td>-86.053007</td><td>768.20</td><td>5.00</td><td>773.20</td></tr></table>			Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation		deg	deg	ft	ft	ft	1	37.045218	-86.053039	760.70	5.00	765.70	2	37.045214	-86.050957	735.33	5.00	740.33	3	37.044019	-86.050931	751.08	5.00	756.08	4	37.044023	-86.053007	768.20	5.00	773.20																														
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation																																																																		
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1	37.045218	-86.053039	760.70	5.00	765.70																																																																		
2	37.045214	-86.050957	735.33	5.00	740.33																																																																		
3	37.044019	-86.050931	751.08	5.00	756.08																																																																		
4	37.044023	-86.053007	768.20	5.00	773.20																																																																		
																																																																							

Name: 203
Footprint area: 7.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.045227	-86.055635	759.87	5.00	764.87
2	37.045223	-86.053017	760.88	5.00	765.88
3	37.044029	-86.052990	768.20	5.00	773.20
4	37.044037	-86.055645	757.87	5.00	762.87

Name: 204
Footprint area: 2.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043816	-86.057977	757.67	5.00	762.67
2	37.043833	-86.057140	758.97	5.00	763.97
3	37.042780	-86.057151	757.42	5.00	762.42
4	37.042776	-86.057966	760.33	5.00	765.33

Name: 205
Footprint area: 16.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043825	-86.054554	762.85	5.00	767.85
2	37.043812	-86.052183	763.17	5.00	768.17
3	37.040558	-86.051969	751.74	5.00	756.74
4	37.040545	-86.053203	757.44	5.00	762.44
5	37.040849	-86.053208	762.78	5.00	767.78
6	37.040862	-86.054045	761.67	5.00	766.67
7	37.042656	-86.054018	762.16	5.00	767.16
8	37.042660	-86.054587	759.64	5.00	764.64

Name: 206
Footprint area: 14.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.040472	-86.054061	752.33	5.00	757.33
2	37.042386	-86.054034	759.93	5.00	764.93
3	37.042433	-86.057993	764.16	5.00	769.16
4	37.041191	-86.058009	767.92	5.00	772.92
5	37.041153	-86.055488	766.03	5.00	771.03
6	37.040463	-86.055504	751.36	5.00	756.36

Name: 207
Footprint area: 4.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.040472	-86.054705	751.05	5.00	756.05
2	37.039776	-86.054699	741.57	5.00	746.57
3	37.039774	-86.054147	747.38	5.00	752.38
4	37.039477	-86.054131	747.36	5.00	752.36
5	37.039479	-86.053417	746.25	5.00	751.25
6	37.039766	-86.053439	750.80	5.00	755.80
7	37.039770	-86.052591	750.09	5.00	755.09
8	37.040558	-86.052602	757.46	5.00	762.46
9	37.040476	-86.054088	752.50	5.00	757.50

Name: 208
Footprint area: 7.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.041194	-86.058015	767.92	5.00	772.92
2	37.041301	-86.058009	765.58	5.00	770.58
3	37.041301	-86.058385	768.44	5.00	773.44
4	37.039378	-86.058497	762.62	5.00	767.62
5	37.039378	-86.056909	750.69	5.00	755.69
6	37.041177	-86.056840	761.92	5.00	766.92

Name: 209
Footprint area: 5.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.040547	-86.051867	751.67	5.00	756.67
2	37.040552	-86.051325	760.19	5.00	765.19
3	37.040239	-86.051330	758.79	5.00	763.79
4	37.040239	-86.051057	760.06	5.00	765.06
5	37.039490	-86.051035	757.36	5.00	762.36
6	37.039481	-86.050531	758.64	5.00	763.64
7	37.038428	-86.050547	752.18	5.00	757.18
8	37.038449	-86.051926	746.14	5.00	751.14

Name: 210
Footprint area: 8.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037636	-86.058417	755.21	5.00	760.21
2	37.038698	-86.058347	762.15	5.00	767.15
3	37.037374	-86.055040	744.59	5.00	749.59
4	37.036402	-86.055043	731.35	5.00	736.35

Name: 211
Footprint area: 8.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035582	-86.051483	744.88	5.00	749.88
2	37.034452	-86.051491	746.27	5.00	751.27
3	37.034486	-86.054131	732.56	5.00	737.56
4	37.034775	-86.054128	730.92	5.00	735.92
5	37.034794	-86.054619	724.43	5.00	729.43
6	37.035602	-86.054584	714.36	5.00	719.36

Name: 212
Footprint area: 9.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035567	-86.051022	736.02	5.00	741.02
2	37.035567	-86.049979	746.35	5.00	751.35
3	37.034450	-86.050000	748.58	5.00	753.58
4	37.034467	-86.047978	753.58	5.00	758.58
5	37.035587	-86.048010	752.46	5.00	757.46
6	37.035597	-86.049102	751.12	5.00	756.12
7	37.036405	-86.049096	738.78	5.00	743.78
8	37.036398	-86.051030	739.32	5.00	744.32

Name: 213
Footprint area: 11.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.033672	-86.052867	737.43	5.00	742.43
2	37.034460	-86.052830	742.05	5.00	747.05
3	37.034448	-86.048404	751.54	5.00	756.54
4	37.033364	-86.048404	758.85	5.00	763.85
5	37.033368	-86.048898	754.68	5.00	759.68
6	37.033368	-86.052331	741.42	5.00	746.42
7	37.033655	-86.052320	741.64	5.00	746.64

Name: 214
Footprint area: 6.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.033368	-86.051575	741.46	5.00	746.46
2	37.032610	-86.051580	735.57	5.00	740.57
3	37.032606	-86.050995	740.65	5.00	745.65
4	37.032242	-86.051006	746.42	5.00	751.42
5	37.032255	-86.049107	760.25	5.00	765.25
6	37.032542	-86.049123	760.12	5.00	765.12
7	37.032538	-86.048753	763.83	5.00	768.83
8	37.033377	-86.048785	754.99	5.00	759.99

Name: 215
Footprint area: 8.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035865	-86.046299	757.54	5.00	762.54
2	37.037124	-86.046299	757.85	5.00	762.85
3	37.037137	-86.044097	773.16	5.00	778.16
4	37.035107	-86.044048	761.61	5.00	766.61
5	37.035109	-86.044864	756.28	5.00	761.28
6	37.035865	-86.044869	763.59	5.00	768.59

Name: 216
Footprint area: 6.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.034792	-86.047168	750.53	5.00	755.53
2	37.034794	-86.046159	756.33	5.00	761.33
3	37.034430	-86.046148	758.18	5.00	763.18
4	37.034445	-86.045381	756.18	5.00	761.18
5	37.033724	-86.045363	757.34	5.00	762.34
6	37.033715	-86.045676	759.72	5.00	764.72
7	37.032949	-86.045650	763.13	5.00	768.13
8	37.032944	-86.046599	765.38	5.00	770.38
9	37.033707	-86.046588	759.67	5.00	764.67
10	37.033732	-86.047401	763.86	5.00	768.86
11	37.034488	-86.047396	755.49	5.00	760.49
12	37.034488	-86.047181	754.02	5.00	759.02

Name: 217
Footprint area: 6.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.046349	-86.057898	747.54	5.00	752.54
2	37.046336	-86.055404	753.89	5.00	758.89
3	37.045227	-86.055409	763.23	5.00	768.23
4	37.045232	-86.057952	751.80	5.00	756.80

Name: 218
Footprint area: 7.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.046328	-86.055409	754.32	5.00	759.32
2	37.046362	-86.052861	738.54	5.00	743.54
3	37.045223	-86.052850	762.72	5.00	767.72
4	37.045227	-86.055415	763.23	5.00	768.23

Name: 219
Footprint area: 7.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.045227	-86.058322	755.05	5.00	760.05
2	37.045236	-86.055618	759.98	5.00	764.98
3	37.044046	-86.055629	757.93	5.00	762.93
4	37.044054	-86.058295	758.92	5.00	763.92

2-Mile Flight Path Receptor(s)

Name: Glasgow Municipal Airport Runway 26
Description:
Threshold height : 50 ft
Direction: 252.2 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.033844	-85.946199	714.75	50.00	764.75
2-mile point	37.042702	-85.911682	732.56	585.62	1318.18

Name: Glasgow Municipal Airport Runway 8
Description:
Threshold height : 50 ft
Direction: 70.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.029484	-85.962314	707.66	50.00	757.66
2-mile point	37.019838	-85.996495	701.55	609.54	1311.09

Route Receptor(s)

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.050811	-86.064229	756.31	5.00	761.31
2	37.050408	-86.063569	761.13	5.00	766.13
3	37.050087	-86.063306	757.86	5.00	762.86
4	37.049385	-86.062947	758.11	5.00	763.11
5	37.049034	-86.062545	751.96	5.00	756.96
6	37.048905	-86.062142	750.65	5.00	755.65
7	37.048892	-86.061713	755.84	5.00	760.84
8	37.048957	-86.061150	765.04	5.00	770.04
9	37.049154	-86.060243	772.82	5.00	777.82
10	37.049188	-86.059895	771.74	5.00	776.74
11	37.049158	-86.059423	767.68	5.00	772.68
12	37.049107	-86.059294	766.85	5.00	771.85

Name: Cumberland Parkway Eastbound
Route type One-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.046057	-86.077102	729.40	5.00	734.40
2	37.045124	-86.074269	728.80	5.00	733.80
3	37.044353	-86.072134	726.96	5.00	731.96
4	37.043103	-86.069248	719.99	5.00	724.99
5	37.042118	-86.067242	724.94	5.00	729.94
6	37.040345	-86.064131	743.88	5.00	748.88
7	37.037998	-86.060644	739.69	5.00	744.69
8	37.034556	-86.055870	725.62	5.00	730.62
9	37.032971	-86.053681	730.76	5.00	735.76
10	37.030830	-86.050666	741.27	5.00	746.27
11	37.028295	-86.047136	753.66	5.00	758.66

Name: Cumberland Parkway Westbound
Route type One-way
View angle: 50.0 deg



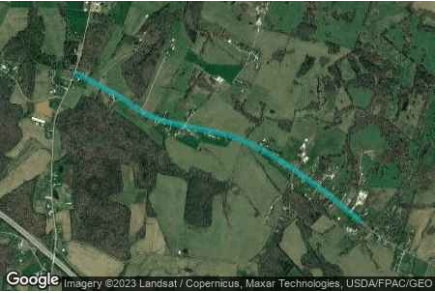
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.028397	-86.046975	753.58	5.00	758.58
2	37.030950	-86.050537	741.62	5.00	746.62
3	37.033108	-86.053541	731.05	5.00	736.05
4	37.034676	-86.055719	725.50	5.00	730.50
5	37.038110	-86.060526	739.68	5.00	744.68
6	37.040448	-86.063938	743.61	5.00	748.61
7	37.042263	-86.067146	724.91	5.00	729.91
8	37.043222	-86.069141	720.07	5.00	725.07
9	37.044490	-86.072049	727.02	5.00	732.02
10	37.045278	-86.074194	729.51	5.00	734.51
11	37.046185	-86.077005	729.63	5.00	734.63

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.038475	-86.060023	760.62	5.00	765.62
2	37.038308	-86.059685	757.43	5.00	762.43
3	37.038034	-86.059374	757.41	5.00	762.41
4	37.037447	-86.058822	754.08	5.00	759.08
5	37.037293	-86.058661	751.57	5.00	756.57
6	37.035777	-86.056553	731.85	5.00	736.85
7	37.033859	-86.053881	731.68	5.00	736.68
8	37.032210	-86.051590	739.11	5.00	744.11
9	37.031118	-86.050056	755.19	5.00	760.19

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.050921	-86.058187	768.26	5.00	773.26
2	37.049474	-86.054807	761.42	5.00	766.42
3	37.049080	-86.054003	754.84	5.00	759.84
4	37.048206	-86.052404	758.13	5.00	763.13
5	37.047872	-86.051567	752.64	5.00	757.64
6	37.047555	-86.050537	755.57	5.00	760.57
7	37.047144	-86.048327	754.31	5.00	759.31
8	37.046528	-86.044626	729.80	5.00	734.80
9	37.046151	-86.043360	702.02	5.00	707.02
10	37.045689	-86.042137	713.63	5.00	718.63
11	37.045149	-86.040935	731.46	5.00	736.46
12	37.044096	-86.038864	733.46	5.00	738.46
13	37.042409	-86.035903	748.96	5.00	753.96
14	37.040499	-86.033049	761.06	5.00	766.06

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.044062	-86.038854	733.93	5.00	738.93
2	37.043034	-86.039068	726.25	5.00	731.25
3	37.042537	-86.039680	719.93	5.00	724.93
4	37.042246	-86.039905	722.69	5.00	727.69
5	37.041887	-86.039905	728.14	5.00	733.14
6	37.041244	-86.039701	725.78	5.00	730.78
7	37.038658	-86.041235	748.51	5.00	753.51
8	37.038418	-86.041418	751.24	5.00	756.24
9	37.037262	-86.043016	761.52	5.00	766.52
10	37.037245	-86.043306	762.90	5.00	767.90
11	37.038033	-86.051793	741.92	5.00	746.92
12	37.038084	-86.052479	743.91	5.00	748.91
13	37.038024	-86.052715	742.76	5.00	747.76
14	37.037519	-86.053606	726.80	5.00	731.80
15	37.037476	-86.053788	727.85	5.00	732.85
16	37.037493	-86.054035	730.21	5.00	735.21
17	37.038786	-86.057286	751.95	5.00	756.95
18	37.038872	-86.057650	754.53	5.00	759.53
19	37.039146	-86.059957	755.96	5.00	760.96

Name: Park City Bon Ayr Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037836	-86.060150	745.58	5.00	750.58
2	37.039103	-86.059957	756.20	5.00	761.20
3	37.040208	-86.060054	756.96	5.00	761.96
4	37.041167	-86.060204	768.28	5.00	773.28
5	37.042469	-86.060343	762.71	5.00	767.71
6	37.043359	-86.060343	767.39	5.00	772.39
7	37.045235	-86.060236	759.12	5.00	764.12
8	37.047307	-86.060097	749.64	5.00	754.64
9	37.047958	-86.059925	751.68	5.00	756.68
10	37.048532	-86.059625	755.75	5.00	760.75
11	37.050929	-86.058208	768.35	5.00	773.35

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	37.011816	-85.904852	831.81	500.00	1331.81
OP 2	37.032362	-86.047508	779.30	16.00	795.30
OP 3	37.040909	-86.060455	766.88	16.00	782.88
OP 4	37.041464	-86.060640	769.82	16.00	785.82
OP 5	37.043461	-86.060681	767.64	16.00	783.64
OP 6	37.046465	-86.060571	768.52	16.00	784.52
OP 7	37.048740	-86.060088	769.74	16.00	785.74
OP 8	37.049762	-86.059452	778.86	16.00	794.86
OP 9	37.050524	-86.058065	777.04	16.00	793.04
OP 10	37.050952	-86.057331	766.50	16.00	782.50
OP 11	37.047848	-86.051902	761.28	16.00	777.28
OP 12	37.047839	-86.050553	760.27	16.00	776.27
OP 13	37.046966	-86.050129	761.40	16.00	777.40
OP 14	37.046542	-86.049863	762.92	16.00	778.92
OP 15	37.046854	-86.048820	761.17	16.00	777.17
OP 16	37.047647	-86.048477	757.37	16.00	773.37
OP 17	37.048244	-86.047900	754.03	16.00	770.03
OP 18	37.048019	-86.048037	755.04	16.00	771.04
OP 19	37.046623	-86.046741	742.67	16.00	758.67
OP 20	37.046461	-86.046304	738.79	16.00	754.79
OP 21	37.046377	-86.045945	735.98	16.00	751.98
OP 22	37.046321	-86.045548	735.22	16.00	751.22
OP 23	37.045227	-86.041527	731.21	16.00	747.21
OP 24	37.045405	-86.040754	731.84	16.00	747.84
OP 25	37.045536	-86.041186	733.40	16.00	749.40
OP 26	37.045266	-86.040384	733.53	16.00	749.53
OP 27	37.045131	-86.040044	734.77	16.00	750.77
OP 28	37.044726	-86.040414	736.58	16.00	752.58
OP 29	37.044088	-86.039403	737.86	16.00	753.86
OP 30	37.043528	-86.038630	737.54	16.00	753.54
OP 31	37.043307	-86.038070	748.22	16.00	764.22
OP 32	37.042678	-86.037431	752.73	16.00	768.73
OP 33	37.032271	-86.060469	711.51	16.00	727.51
OP 34	37.032611	-86.061204	745.83	16.00	761.83
OP 35	37.034855	-86.059887	762.13	16.00	778.13
OP 36	37.035759	-86.060907	755.37	16.00	771.37
OP 37	37.037502	-86.060993	748.99	16.00	764.99
OP 38	37.037831	-86.062752	739.58	16.00	755.58
OP 39	37.038838	-86.063133	743.84	16.00	759.84
OP 40	37.039056	-86.063557	740.99	16.00	756.99

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
201	SA tracking	SA tracking	0	0	-	-
202	SA tracking	SA tracking	0	0	-	-
203	SA tracking	SA tracking	0	0	-	-
204	SA tracking	SA tracking	0	0	-	-
205	SA tracking	SA tracking	0	0	-	-
206	SA tracking	SA tracking	0	0	-	-
207	SA tracking	SA tracking	0	0	-	-
208	SA tracking	SA tracking	0	0	-	-
209	SA tracking	SA tracking	0	0	-	-
210	SA tracking	SA tracking	0	0	-	-
211	SA tracking	SA tracking	0	0	-	-
212	SA tracking	SA tracking	0	0	-	-
213	SA tracking	SA tracking	0	0	-	-
214	SA tracking	SA tracking	0	0	-	-
215	SA tracking	SA tracking	0	0	-	-
216	SA tracking	SA tracking	0	0	-	-
217	SA tracking	SA tracking	0	0	-	-
218	SA tracking	SA tracking	0	0	-	-
219	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

201 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

204 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

205 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

208 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

209 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

211 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

212 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

213 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

214 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

215 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

216 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

217 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

218 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

219 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

No glare found

Assumptions

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

Wood Duck

Block 2 9ft vehicle v2

Created May 31, 2023
Updated May 31, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 91926.15739

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

Misc. Analysis Settings

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

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
201	SA tracking	SA tracking	0	0	-
202	SA tracking	SA tracking	0	0	-
203	SA tracking	SA tracking	0	0	-
204	SA tracking	SA tracking	0	0	-
205	SA tracking	SA tracking	0	0	-
206	SA tracking	SA tracking	0	0	-
207	SA tracking	SA tracking	0	0	-
208	SA tracking	SA tracking	0	0	-
209	SA tracking	SA tracking	0	0	-
210	SA tracking	SA tracking	0	0	-
211	SA tracking	SA tracking	0	0	-
212	SA tracking	SA tracking	0	0	-
213	SA tracking	SA tracking	0	0	-
214	SA tracking	SA tracking	0	0	-
215	SA tracking	SA tracking	0	0	-
216	SA tracking	SA tracking	0	0	-
217	SA tracking	SA tracking	0	0	-
218	SA tracking	SA tracking	0	0	-
219	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 156.0 acres

Name: 201 Footprint area: 12.8 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad			<table><tr><th>Vertex</th><th>Latitude</th><th>Longitude</th><th>Ground elevation</th><th>Height above ground</th><th>Total elevation</th></tr><tr><td></td><td>deg</td><td>deg</td><td>ft</td><td>ft</td><td>ft</td></tr><tr><td>1</td><td>37.048564</td><td>-86.056397</td><td>747.45</td><td>5.00</td><td>752.45</td></tr><tr><td>2</td><td>37.047516</td><td>-86.056467</td><td>748.43</td><td>5.00</td><td>753.43</td></tr><tr><td>3</td><td>37.047537</td><td>-86.057373</td><td>747.19</td><td>5.00</td><td>752.19</td></tr><tr><td>4</td><td>37.046347</td><td>-86.057406</td><td>751.33</td><td>5.00</td><td>756.33</td></tr><tr><td>5</td><td>37.046336</td><td>-86.054077</td><td>747.34</td><td>5.00</td><td>752.34</td></tr><tr><td>6</td><td>37.047505</td><td>-86.054080</td><td>745.38</td><td>5.00</td><td>750.38</td></tr><tr><td>7</td><td>37.047501</td><td>-86.054943</td><td>742.14</td><td>5.00</td><td>747.14</td></tr><tr><td>8</td><td>37.048209</td><td>-86.054935</td><td>747.69</td><td>5.00</td><td>752.69</td></tr><tr><td>9</td><td>37.048558</td><td>-86.055579</td><td>747.93</td><td>5.00</td><td>752.93</td></tr></table>			Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation		deg	deg	ft	ft	ft	1	37.048564	-86.056397	747.45	5.00	752.45	2	37.047516	-86.056467	748.43	5.00	753.43	3	37.047537	-86.057373	747.19	5.00	752.19	4	37.046347	-86.057406	751.33	5.00	756.33	5	37.046336	-86.054077	747.34	5.00	752.34	6	37.047505	-86.054080	745.38	5.00	750.38	7	37.047501	-86.054943	742.14	5.00	747.14	8	37.048209	-86.054935	747.69	5.00	752.69	9	37.048558	-86.055579	747.93	5.00	752.93
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation																																																																		
	deg	deg	ft	ft	ft																																																																		
1	37.048564	-86.056397	747.45	5.00	752.45																																																																		
2	37.047516	-86.056467	748.43	5.00	753.43																																																																		
3	37.047537	-86.057373	747.19	5.00	752.19																																																																		
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6	37.047505	-86.054080	745.38	5.00	750.38																																																																		
7	37.047501	-86.054943	742.14	5.00	747.14																																																																		
8	37.048209	-86.054935	747.69	5.00	752.69																																																																		
9	37.048558	-86.055579	747.93	5.00	752.93																																																																		
																																																																							
Name: 202 Footprint area: 6.1 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad			<table><tr><th>Vertex</th><th>Latitude</th><th>Longitude</th><th>Ground elevation</th><th>Height above ground</th><th>Total elevation</th></tr><tr><td></td><td>deg</td><td>deg</td><td>ft</td><td>ft</td><td>ft</td></tr><tr><td>1</td><td>37.045218</td><td>-86.053039</td><td>760.70</td><td>5.00</td><td>765.70</td></tr><tr><td>2</td><td>37.045214</td><td>-86.050957</td><td>735.33</td><td>5.00</td><td>740.33</td></tr><tr><td>3</td><td>37.044019</td><td>-86.050931</td><td>751.08</td><td>5.00</td><td>756.08</td></tr><tr><td>4</td><td>37.044023</td><td>-86.053007</td><td>768.20</td><td>5.00</td><td>773.20</td></tr></table>			Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation		deg	deg	ft	ft	ft	1	37.045218	-86.053039	760.70	5.00	765.70	2	37.045214	-86.050957	735.33	5.00	740.33	3	37.044019	-86.050931	751.08	5.00	756.08	4	37.044023	-86.053007	768.20	5.00	773.20																														
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation																																																																		
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1	37.045218	-86.053039	760.70	5.00	765.70																																																																		
2	37.045214	-86.050957	735.33	5.00	740.33																																																																		
3	37.044019	-86.050931	751.08	5.00	756.08																																																																		
4	37.044023	-86.053007	768.20	5.00	773.20																																																																		
																																																																							

Name: 203
Footprint area: 7.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.045227	-86.055635	759.87	5.00	764.87
2	37.045223	-86.053017	760.88	5.00	765.88
3	37.044029	-86.052990	768.20	5.00	773.20
4	37.044037	-86.055645	757.87	5.00	762.87

Name: 204
Footprint area: 2.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043816	-86.057977	757.67	5.00	762.67
2	37.043833	-86.057140	758.97	5.00	763.97
3	37.042780	-86.057151	757.42	5.00	762.42
4	37.042776	-86.057966	760.33	5.00	765.33

Name: 205
Footprint area: 16.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043825	-86.054554	762.85	5.00	767.85
2	37.043812	-86.052183	763.17	5.00	768.17
3	37.040558	-86.051969	751.74	5.00	756.74
4	37.040545	-86.053203	757.44	5.00	762.44
5	37.040849	-86.053208	762.78	5.00	767.78
6	37.040862	-86.054045	761.67	5.00	766.67
7	37.042656	-86.054018	762.16	5.00	767.16
8	37.042660	-86.054587	759.64	5.00	764.64

Name: 206
Footprint area: 14.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.040472	-86.054061	752.33	5.00	757.33
2	37.042386	-86.054034	759.93	5.00	764.93
3	37.042433	-86.057993	764.16	5.00	769.16
4	37.041191	-86.058009	767.92	5.00	772.92
5	37.041153	-86.055488	766.03	5.00	771.03
6	37.040463	-86.055504	751.36	5.00	756.36

Name: 207
Footprint area: 4.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.040472	-86.054705	751.05	5.00	756.05
2	37.039776	-86.054699	741.57	5.00	746.57
3	37.039774	-86.054147	747.38	5.00	752.38
4	37.039477	-86.054131	747.36	5.00	752.36
5	37.039479	-86.053417	746.25	5.00	751.25
6	37.039766	-86.053439	750.80	5.00	755.80
7	37.039770	-86.052591	750.09	5.00	755.09
8	37.040558	-86.052602	757.46	5.00	762.46
9	37.040476	-86.054088	752.50	5.00	757.50

Name: 208
Footprint area: 7.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.041194	-86.058015	767.92	5.00	772.92
2	37.041301	-86.058009	765.58	5.00	770.58
3	37.041301	-86.058385	768.44	5.00	773.44
4	37.039378	-86.058497	762.62	5.00	767.62
5	37.039378	-86.056909	750.69	5.00	755.69
6	37.041177	-86.056840	761.92	5.00	766.92

Name: 209
Footprint area: 5.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.040547	-86.051867	751.67	5.00	756.67
2	37.040552	-86.051325	760.19	5.00	765.19
3	37.040239	-86.051330	758.79	5.00	763.79
4	37.040239	-86.051057	760.06	5.00	765.06
5	37.039490	-86.051035	757.36	5.00	762.36
6	37.039481	-86.050531	758.64	5.00	763.64
7	37.038428	-86.050547	752.18	5.00	757.18
8	37.038449	-86.051926	746.14	5.00	751.14

Name: 210
Footprint area: 8.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037636	-86.058417	755.21	5.00	760.21
2	37.038698	-86.058347	762.15	5.00	767.15
3	37.037374	-86.055040	744.59	5.00	749.59
4	37.036402	-86.055043	731.35	5.00	736.35

Name: 211
Footprint area: 8.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035582	-86.051483	744.88	5.00	749.88
2	37.034452	-86.051491	746.27	5.00	751.27
3	37.034486	-86.054131	732.56	5.00	737.56
4	37.034775	-86.054128	730.92	5.00	735.92
5	37.034794	-86.054619	724.43	5.00	729.43
6	37.035602	-86.054584	714.36	5.00	719.36

Name: 212
Footprint area: 9.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035567	-86.051022	736.02	5.00	741.02
2	37.035567	-86.049979	746.35	5.00	751.35
3	37.034450	-86.050000	748.58	5.00	753.58
4	37.034467	-86.047978	753.58	5.00	758.58
5	37.035587	-86.048010	752.46	5.00	757.46
6	37.035597	-86.049102	751.12	5.00	756.12
7	37.036405	-86.049096	738.78	5.00	743.78
8	37.036398	-86.051030	739.32	5.00	744.32

Name: 213
Footprint area: 11.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.033672	-86.052867	737.43	5.00	742.43
2	37.034460	-86.052830	742.05	5.00	747.05
3	37.034448	-86.048404	751.54	5.00	756.54
4	37.033364	-86.048404	758.85	5.00	763.85
5	37.033368	-86.048898	754.68	5.00	759.68
6	37.033368	-86.052331	741.42	5.00	746.42
7	37.033655	-86.052320	741.64	5.00	746.64

Name: 214
Footprint area: 6.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.033368	-86.051575	741.46	5.00	746.46
2	37.032610	-86.051580	735.57	5.00	740.57
3	37.032606	-86.050995	740.65	5.00	745.65
4	37.032242	-86.051006	746.42	5.00	751.42
5	37.032255	-86.049107	760.25	5.00	765.25
6	37.032542	-86.049123	760.12	5.00	765.12
7	37.032538	-86.048753	763.83	5.00	768.83
8	37.033377	-86.048785	754.99	5.00	759.99

Name: 215
Footprint area: 8.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035865	-86.046299	757.54	5.00	762.54
2	37.037124	-86.046299	757.85	5.00	762.85
3	37.037137	-86.044097	773.16	5.00	778.16
4	37.035107	-86.044048	761.61	5.00	766.61
5	37.035109	-86.044864	756.28	5.00	761.28
6	37.035865	-86.044869	763.59	5.00	768.59

Name: 216
Footprint area: 6.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.034792	-86.047168	750.53	5.00	755.53
2	37.034794	-86.046159	756.33	5.00	761.33
3	37.034430	-86.046148	758.18	5.00	763.18
4	37.034445	-86.045381	756.18	5.00	761.18
5	37.033724	-86.045363	757.34	5.00	762.34
6	37.033715	-86.045676	759.72	5.00	764.72
7	37.032949	-86.045650	763.13	5.00	768.13
8	37.032944	-86.046599	765.38	5.00	770.38
9	37.033707	-86.046588	759.67	5.00	764.67
10	37.033732	-86.047401	763.86	5.00	768.86
11	37.034488	-86.047396	755.49	5.00	760.49
12	37.034488	-86.047181	754.02	5.00	759.02

Name: 217
Footprint area: 6.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.046349	-86.057898	747.54	5.00	752.54
2	37.046336	-86.055404	753.89	5.00	758.89
3	37.045227	-86.055409	763.23	5.00	768.23
4	37.045232	-86.057952	751.80	5.00	756.80

Name: 218
Footprint area: 7.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.046328	-86.055409	754.32	5.00	759.32
2	37.046362	-86.052861	738.54	5.00	743.54
3	37.045223	-86.052850	762.72	5.00	767.72
4	37.045227	-86.055415	763.23	5.00	768.23

Name: 219
Footprint area: 7.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.045227	-86.058322	755.05	5.00	760.05
2	37.045236	-86.055618	759.98	5.00	764.98
3	37.044046	-86.055629	757.93	5.00	762.93
4	37.044054	-86.058295	758.92	5.00	763.92

2-Mile Flight Path Receptor(s)

Name: Glasgow Municipal Airport Runway 26
Description:
Threshold height : 50 ft
Direction: 252.2 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.033844	-85.946199	714.75	50.00	764.75
2-mile point	37.042702	-85.911682	732.56	585.62	1318.18

Name: Glasgow Municipal Airport Runway 8
Description:
Threshold height : 50 ft
Direction: 70.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.029484	-85.962314	707.66	50.00	757.66
2-mile point	37.019838	-85.996495	701.55	609.54	1311.09

Route Receptor(s)

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.050811	-86.064229	756.31	9.00	765.31
2	37.050408	-86.063569	761.13	9.00	770.13
3	37.050087	-86.063306	757.86	9.00	766.86
4	37.049385	-86.062947	758.11	9.00	767.11
5	37.049034	-86.062545	751.96	9.00	760.96
6	37.048905	-86.062142	750.65	9.00	759.65
7	37.048892	-86.061713	755.84	9.00	764.84
8	37.048957	-86.061150	765.04	9.00	774.04
9	37.049154	-86.060243	772.82	9.00	781.82
10	37.049188	-86.059895	771.74	9.00	780.74
11	37.049158	-86.059423	767.68	9.00	776.68
12	37.049107	-86.059294	766.85	9.00	775.85

Name: Cumberland Parkway Eastbound
Route type One-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.046057	-86.077102	729.40	9.00	738.40
2	37.045124	-86.074269	728.80	9.00	737.80
3	37.044353	-86.072134	726.96	9.00	735.96
4	37.043103	-86.069248	719.99	9.00	728.99
5	37.042118	-86.067242	724.94	9.00	733.94
6	37.040345	-86.064131	743.88	9.00	752.88
7	37.037998	-86.060644	739.69	9.00	748.69
8	37.034556	-86.055870	725.62	9.00	734.62
9	37.032971	-86.053681	730.76	9.00	739.76
10	37.030830	-86.050666	741.27	9.00	750.27
11	37.028295	-86.047136	753.66	9.00	762.66

Name: Cumberland Parkway Westbound
Route type One-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.028397	-86.046975	753.58	9.00	762.58
2	37.030950	-86.050537	741.62	9.00	750.62
3	37.033108	-86.053541	731.05	9.00	740.05
4	37.034676	-86.055719	725.50	9.00	734.50
5	37.038110	-86.060526	739.68	9.00	748.68
6	37.040448	-86.063938	743.61	9.00	752.61
7	37.042263	-86.067146	724.91	9.00	733.91
8	37.043222	-86.069141	720.07	9.00	729.07
9	37.044490	-86.072049	727.02	9.00	736.02
10	37.045278	-86.074194	729.51	9.00	738.51
11	37.046185	-86.077005	729.63	9.00	738.63

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.038475	-86.060023	760.62	9.00	769.62
2	37.038308	-86.059685	757.43	9.00	766.43
3	37.038034	-86.059374	757.41	9.00	766.41
4	37.037447	-86.058822	754.08	9.00	763.08
5	37.037293	-86.058661	751.57	9.00	760.57
6	37.035777	-86.056553	731.85	9.00	740.85
7	37.033859	-86.053881	731.68	9.00	740.68
8	37.032210	-86.051590	739.11	9.00	748.11
9	37.031118	-86.050056	755.19	9.00	764.19

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.050921	-86.058187	768.26	9.00	777.26
2	37.049474	-86.054807	761.42	9.00	770.42
3	37.049080	-86.054003	754.84	9.00	763.84
4	37.048206	-86.052404	758.13	9.00	767.13
5	37.047872	-86.051567	752.64	9.00	761.64
6	37.047555	-86.050537	755.57	9.00	764.57
7	37.047144	-86.048327	754.31	9.00	763.31
8	37.046528	-86.044626	729.80	9.00	738.80
9	37.046151	-86.043360	702.02	9.00	711.02
10	37.045689	-86.042137	713.63	9.00	722.63
11	37.045149	-86.040935	731.46	9.00	740.46
12	37.044096	-86.038864	733.46	9.00	742.46
13	37.042409	-86.035903	748.96	9.00	757.96
14	37.040499	-86.033049	761.06	9.00	770.06

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.044062	-86.038854	733.93	9.00	742.93
2	37.043034	-86.039068	726.25	9.00	735.25
3	37.042537	-86.039680	719.93	9.00	728.93
4	37.042246	-86.039905	722.69	9.00	731.69
5	37.041887	-86.039905	728.14	9.00	737.14
6	37.041244	-86.039701	725.78	9.00	734.78
7	37.038658	-86.041235	748.51	9.00	757.51
8	37.038418	-86.041418	751.24	9.00	760.24
9	37.037262	-86.043016	761.52	9.00	770.52
10	37.037245	-86.043306	762.90	9.00	771.90
11	37.038033	-86.051793	741.92	9.00	750.92
12	37.038084	-86.052479	743.91	9.00	752.91
13	37.038024	-86.052715	742.76	9.00	751.76
14	37.037519	-86.053606	726.80	9.00	735.80
15	37.037476	-86.053788	727.85	9.00	736.85
16	37.037493	-86.054035	730.21	9.00	739.21
17	37.038786	-86.057286	751.95	9.00	760.95
18	37.038872	-86.057650	754.53	9.00	763.53
19	37.039146	-86.059957	755.96	9.00	764.96

Name: Park City Bon Ayr Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037836	-86.060150	745.58	9.00	754.58
2	37.039103	-86.059957	756.20	9.00	765.20
3	37.040208	-86.060054	756.96	9.00	765.96
4	37.041167	-86.060204	768.28	9.00	777.28
5	37.042469	-86.060343	762.71	9.00	771.71
6	37.043359	-86.060343	767.39	9.00	776.39
7	37.045235	-86.060236	759.12	9.00	768.12
8	37.047307	-86.060097	749.64	9.00	758.64
9	37.047958	-86.059925	751.68	9.00	760.68
10	37.048532	-86.059625	755.75	9.00	764.75
11	37.050929	-86.058208	768.35	9.00	777.35

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	37.011816	-85.904852	831.81	500.00	1331.81
OP 2	37.032362	-86.047508	779.30	16.00	795.30
OP 3	37.040909	-86.060455	766.88	16.00	782.88
OP 4	37.041464	-86.060640	769.82	16.00	785.82
OP 5	37.043461	-86.060681	767.64	16.00	783.64
OP 6	37.046465	-86.060571	768.52	16.00	784.52
OP 7	37.048740	-86.060088	769.74	16.00	785.74
OP 8	37.049762	-86.059452	778.86	16.00	794.86
OP 9	37.050524	-86.058065	777.04	16.00	793.04
OP 10	37.050952	-86.057331	766.50	16.00	782.50
OP 11	37.047848	-86.051902	761.28	16.00	777.28
OP 12	37.047839	-86.050553	760.27	16.00	776.27
OP 13	37.046966	-86.050129	761.40	16.00	777.40
OP 14	37.046542	-86.049863	762.92	16.00	778.92
OP 15	37.046854	-86.048820	761.17	16.00	777.17
OP 16	37.047647	-86.048477	757.37	16.00	773.37
OP 17	37.048244	-86.047900	754.03	16.00	770.03
OP 18	37.048019	-86.048037	755.04	16.00	771.04
OP 19	37.046623	-86.046741	742.67	16.00	758.67
OP 20	37.046461	-86.046304	738.79	16.00	754.79
OP 21	37.046377	-86.045945	735.98	16.00	751.98
OP 22	37.046321	-86.045548	735.22	16.00	751.22
OP 23	37.045227	-86.041527	731.21	16.00	747.21
OP 24	37.045405	-86.040754	731.84	16.00	747.84
OP 25	37.045536	-86.041186	733.40	16.00	749.40
OP 26	37.045266	-86.040384	733.53	16.00	749.53
OP 27	37.045131	-86.040044	734.77	16.00	750.77
OP 28	37.044726	-86.040414	736.58	16.00	752.58
OP 29	37.044088	-86.039403	737.86	16.00	753.86
OP 30	37.043528	-86.038630	737.54	16.00	753.54
OP 31	37.043307	-86.038070	748.22	16.00	764.22
OP 32	37.042678	-86.037431	752.73	16.00	768.73
OP 33	37.032271	-86.060469	711.51	16.00	727.51
OP 34	37.032611	-86.061204	745.83	16.00	761.83
OP 35	37.034855	-86.059887	762.13	16.00	778.13
OP 36	37.035759	-86.060907	755.37	16.00	771.37
OP 37	37.037502	-86.060993	748.99	16.00	764.99
OP 38	37.037831	-86.062752	739.58	16.00	755.58
OP 39	37.038838	-86.063133	743.84	16.00	759.84
OP 40	37.039056	-86.063557	740.99	16.00	756.99

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
201	SA tracking	SA tracking	0	0	-	-
202	SA tracking	SA tracking	0	0	-	-
203	SA tracking	SA tracking	0	0	-	-
204	SA tracking	SA tracking	0	0	-	-
205	SA tracking	SA tracking	0	0	-	-
206	SA tracking	SA tracking	0	0	-	-
207	SA tracking	SA tracking	0	0	-	-
208	SA tracking	SA tracking	0	0	-	-
209	SA tracking	SA tracking	0	0	-	-
210	SA tracking	SA tracking	0	0	-	-
211	SA tracking	SA tracking	0	0	-	-
212	SA tracking	SA tracking	0	0	-	-
213	SA tracking	SA tracking	0	0	-	-
214	SA tracking	SA tracking	0	0	-	-
215	SA tracking	SA tracking	0	0	-	-
216	SA tracking	SA tracking	0	0	-	-
217	SA tracking	SA tracking	0	0	-	-
218	SA tracking	SA tracking	0	0	-	-
219	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

201 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

204 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

205 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
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No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

208 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

209 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

211 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

212 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

213 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

214 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

215 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

216 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

217 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

218 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

Route: Park City Bon Ayr Road	0	0
-------------------------------	---	---

No glare found

219 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Apple Grove Road	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Disman Road	0	0
Route: Dripping Springs Road	0	0
Route: Mayhew Road	0	0

No glare found

Assumptions

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

Wood Duck

Block 3 5ft vehicle

Created Apr 26, 2023
Updated Apr 27, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 89204.15739

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

Misc. Analysis Settings

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

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	0	0	-
302	SA tracking	SA tracking	0	0	-
303	SA tracking	SA tracking	0	0	-
304	SA tracking	SA tracking	0	0	-
305	SA tracking	SA tracking	0	0	-
306	SA tracking	SA tracking	0	0	-
307	SA tracking	SA tracking	0	0	-
308	SA tracking	SA tracking	0	0	-
309	SA tracking	SA tracking	0	0	-
310	SA tracking	SA tracking	0	0	-
311	SA tracking	SA tracking	0	0	-
312	SA tracking	SA tracking	0	0	-
313	SA tracking	SA tracking	0	0	-
314	SA tracking	SA tracking	0	0	-
315	SA tracking	SA tracking	0	0	-
316	SA tracking	SA tracking	0	0	-
317	SA tracking	SA tracking	0	0	-
318	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 183.0 acres

Name: 301
Footprint area: 7.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.047387	-86.088859	672.94	5.00	677.94
2	37.048113	-86.088848	668.96	5.00	673.96
3	37.048105	-86.087770	678.35	5.00	683.35
4	37.048002	-86.086970	672.95	5.00	677.95
5	37.047762	-86.086300	675.46	5.00	680.46
6	37.046841	-86.086300	683.66	5.00	688.66
7	37.046841	-86.086016	680.93	5.00	685.93
8	37.046184	-86.086010	693.33	5.00	698.33
9	37.046186	-86.086187	695.44	5.00	700.44
10	37.045930	-86.086190	698.12	5.00	703.12
11	37.046204	-86.087032	691.01	5.00	696.01
12	37.046638	-86.087029	684.21	5.00	689.21
13	37.046640	-86.087204	682.80	5.00	687.80
14	37.046916	-86.087571	689.75	5.00	694.75
15	37.047173	-86.087544	688.56	5.00	693.56
16	37.047368	-86.087858	684.97	5.00	689.97
17	37.047372	-86.088306	678.82	5.00	683.82

Name: 302
Footprint area: 3.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.046326	-86.084334	689.33	5.00	694.33
2	37.047094	-86.084312	688.66	5.00	693.66
3	37.047090	-86.083057	676.77	5.00	681.77
4	37.045910	-86.083057	689.55	5.00	694.55
5	37.045917	-86.083977	694.73	5.00	699.73
6	37.046313	-86.083969	696.85	5.00	701.85

Name: 303
Footprint area: 5.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



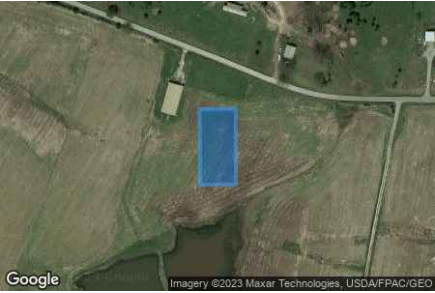
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.045110	-86.082183	708.88	5.00	713.88
2	37.045842	-86.082177	689.42	5.00	694.42
3	37.045487	-86.080844	710.36	5.00	715.36
4	37.045776	-86.080796	700.85	5.00	705.85
5	37.045431	-86.079672	714.15	5.00	719.15
6	37.045418	-86.079171	715.72	5.00	720.72
7	37.044615	-86.079176	727.56	5.00	732.56
8	37.044613	-86.079294	727.58	5.00	732.58
9	37.044671	-86.079297	727.62	5.00	732.62
10	37.044679	-86.079659	726.18	5.00	731.18
11	37.045108	-86.080836	718.38	5.00	723.38
12	37.044724	-86.080858	725.36	5.00	730.36

Name: 304
Footprint area: 19.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043949	-86.084578	708.32	5.00	713.32
2	37.044750	-86.084605	706.68	5.00	711.68
3	37.044750	-86.086364	709.96	5.00	714.96
4	37.045118	-86.086337	709.50	5.00	714.50
5	37.045183	-86.089277	694.91	5.00	699.91
6	37.044545	-86.089309	695.47	5.00	700.47
7	37.044579	-86.091482	673.54	5.00	678.54
8	37.043470	-86.091487	678.16	5.00	683.16
9	37.043397	-86.089283	682.93	5.00	687.93
10	37.043226	-86.089283	682.56	5.00	687.56
11	37.043196	-86.088263	683.58	5.00	688.58
12	37.043997	-86.088231	688.56	5.00	693.56

Name: 305
Footprint area: 0.65 acre
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043862	-86.080839	724.72	5.00	729.72
2	37.043866	-86.080442	725.96	5.00	730.96
3	37.043198	-86.080439	716.24	5.00	721.24
4	37.043194	-86.080836	718.04	5.00	723.04

Name: 306
Footprint area: 9.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043630	-86.084023	706.22	5.00	711.22
2	37.043628	-86.083422	710.98	5.00	715.98
3	37.044333	-86.083417	699.65	5.00	704.65
4	37.044350	-86.082236	718.11	5.00	723.11
5	37.043725	-86.082215	717.93	5.00	722.93
6	37.043725	-86.081378	723.27	5.00	728.27
7	37.042864	-86.081367	717.48	5.00	722.48
8	37.042851	-86.081925	718.02	5.00	723.02
9	37.042556	-86.081904	713.86	5.00	718.86
10	37.042491	-86.082156	716.46	5.00	721.46
11	37.042487	-86.082993	720.74	5.00	725.74
12	37.041798	-86.082993	703.77	5.00	708.77
13	37.041806	-86.083459	710.31	5.00	715.31
14	37.042496	-86.083449	718.98	5.00	723.98
15	37.042491	-86.084087	708.86	5.00	713.86

Name: 307
Footprint area: 7.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.041712	-86.086785	679.62	5.00	684.62
2	37.041922	-86.086533	683.44	5.00	688.44
3	37.041918	-86.084554	707.56	5.00	712.56
4	37.041708	-86.084548	708.24	5.00	713.24
5	37.041708	-86.083958	711.04	5.00	716.04
6	37.041040	-86.083953	691.77	5.00	696.77
7	37.041048	-86.084495	695.23	5.00	700.23
8	37.040749	-86.084489	687.93	5.00	692.93
9	37.040783	-86.086555	672.84	5.00	677.84
10	37.040667	-86.086844	669.86	5.00	674.86

Name: 308
Footprint area: 8.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.039721	-86.088606	682.57	5.00	687.57
2	37.039000	-86.088630	695.76	5.00	700.76
3	37.038985	-86.087348	693.32	5.00	698.32
4	37.038387	-86.087310	696.56	5.00	701.56
5	37.038396	-86.086414	695.59	5.00	700.59
6	37.038210	-86.086417	690.09	5.00	695.09
7	37.038214	-86.086259	689.41	5.00	694.41
8	37.038356	-86.085839	686.67	5.00	691.67
9	37.039298	-86.085846	684.55	5.00	689.55
10	37.040227	-86.086798	675.16	5.00	680.16
11	37.040253	-86.087597	678.62	5.00	683.62
12	37.039943	-86.087608	691.59	5.00	696.59

Name: 309
Footprint area: 6.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.040245	-86.085148	683.09	5.00	688.09
2	37.039163	-86.085132	680.74	5.00	685.74
3	37.039157	-86.084212	686.09	5.00	691.09
4	37.039474	-86.084231	686.95	5.00	691.95
5	37.039472	-86.083928	688.39	5.00	693.39
6	37.040746	-86.082584	717.95	5.00	722.95
7	37.041846	-86.082563	705.07	5.00	710.07
8	37.040377	-86.083759	694.57	5.00	699.57

Name: 310
Footprint area: 11.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.041887	-86.080578	718.83	5.00	723.83
2	37.041167	-86.080615	731.61	5.00	736.61
3	37.041172	-86.077863	713.10	5.00	718.10
4	37.043351	-86.077880	716.97	5.00	721.97
5	37.043368	-86.079317	723.44	5.00	728.44
6	37.043051	-86.079328	723.41	5.00	728.41
7	37.043056	-86.079618	720.34	5.00	725.34
8	37.042272	-86.079612	722.28	5.00	727.28
9	37.042272	-86.080143	716.88	5.00	721.88
10	37.041908	-86.080122	720.76	5.00	725.76

Name: 311
Footprint area: 16.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.041167	-86.080621	731.61	5.00	736.61
2	37.041167	-86.081356	732.38	5.00	737.38
3	37.040812	-86.081356	731.86	5.00	736.86
4	37.040816	-86.081667	731.54	5.00	736.54
5	37.040054	-86.081715	719.65	5.00	724.65
6	37.040097	-86.082353	721.36	5.00	726.36
7	37.039720	-86.082380	712.00	5.00	717.00
8	37.039737	-86.082724	710.14	5.00	715.14
9	37.038846	-86.082761	699.07	5.00	704.07
10	37.038799	-86.079274	705.39	5.00	710.39
11	37.041176	-86.079333	727.75	5.00	732.75

Name: 312
Footprint area: 15.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.041167	-86.077939	714.21	5.00	719.21
2	37.041163	-86.079333	727.68	5.00	732.68
3	37.038799	-86.079280	705.26	5.00	710.26
4	37.038778	-86.077542	718.52	5.00	723.52
5	37.038637	-86.077547	717.88	5.00	722.88
6	37.038628	-86.075154	686.81	5.00	691.81
7	37.039472	-86.075181	683.46	5.00	688.46
8	37.039746	-86.075557	686.45	5.00	691.45
9	37.039776	-86.077311	720.77	5.00	725.77
10	37.039990	-86.077306	720.66	5.00	725.66
11	37.039998	-86.078030	720.57	5.00	725.57

Name: 313
Footprint area: 24.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.038632	-86.077558	717.89	5.00	722.89
2	37.038637	-86.078089	716.06	5.00	721.06
3	37.037742	-86.078126	717.33	5.00	722.33
4	37.037759	-86.078931	721.63	5.00	726.63
5	37.038401	-86.078915	712.36	5.00	717.36
6	37.038427	-86.081887	697.88	5.00	702.88
7	37.037665	-86.081924	709.00	5.00	714.00
8	37.037643	-86.081458	703.81	5.00	708.81
9	37.036770	-86.081463	722.63	5.00	727.63
10	37.036770	-86.076726	678.71	5.00	683.71
11	37.036860	-86.076721	681.04	5.00	686.04
12	37.036851	-86.075986	671.84	5.00	676.84
13	37.037549	-86.076002	678.75	5.00	683.75
14	37.037545	-86.075144	671.83	5.00	676.83
15	37.038624	-86.075160	687.14	5.00	692.14

Name: 314
Footprint area: 18.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036770	-86.081466	722.49	5.00	727.49
2	37.036517	-86.081490	720.64	5.00	725.64
3	37.036491	-86.081050	722.79	5.00	727.79
4	37.035455	-86.081039	703.50	5.00	708.50
5	37.035442	-86.079870	698.25	5.00	703.25
6	37.034444	-86.079907	693.96	5.00	698.96
7	37.034466	-86.080653	710.71	5.00	715.71
8	37.033297	-86.080642	683.23	5.00	688.23
9	37.033310	-86.079349	660.88	5.00	665.88
10	37.033605	-86.079355	663.70	5.00	668.70
11	37.033605	-86.078995	662.43	5.00	667.43
12	37.034393	-86.078979	670.71	5.00	675.71
13	37.034393	-86.078636	665.21	5.00	670.21
14	37.035438	-86.078641	684.84	5.00	689.84
15	37.035464	-86.078051	672.60	5.00	677.60
16	37.035806	-86.078035	680.16	5.00	685.16
17	37.035806	-86.077633	671.15	5.00	676.15
18	37.036547	-86.077644	685.59	5.00	690.59
19	37.036547	-86.076705	674.29	5.00	679.29
20	37.036774	-86.076705	678.73	5.00	683.73

Name: 315
Footprint area: 4.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.039684	-86.075120	685.40	5.00	690.40
2	37.040463	-86.075118	703.92	5.00	708.92
3	37.040478	-86.072578	691.58	5.00	696.58
4	37.039692	-86.072580	677.61	5.00	682.61
5	37.039690	-86.073471	684.88	5.00	689.88

Name: 316
Footprint area: 7.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.042570	-86.072127	737.14	5.00	742.14
2	37.042559	-86.069544	718.68	5.00	723.68
3	37.041416	-86.069515	696.16	5.00	701.16
4	37.041478	-86.072103	716.05	5.00	721.05

Name: 317
Footprint area: 2.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.031323	-86.084542	656.64	5.00	661.64
2	37.031338	-86.085676	656.37	5.00	661.37
3	37.032115	-86.085660	674.20	5.00	679.20
4	37.032098	-86.084534	686.45	5.00	691.45

Name: 318
Footprint area: 15.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029314	-86.082911	669.39	5.00	674.39
2	37.029305	-86.082675	671.82	5.00	676.82
3	37.029742	-86.082664	658.47	5.00	663.47
4	37.029734	-86.081538	661.87	5.00	666.87
5	37.029323	-86.081505	664.45	5.00	669.45
6	37.028826	-86.081468	680.16	5.00	685.16
7	37.028830	-86.080964	664.56	5.00	669.56
8	37.027605	-86.080905	683.18	5.00	688.18
9	37.027592	-86.080733	675.73	5.00	680.73
10	37.027117	-86.080567	674.00	5.00	679.00
11	37.026436	-86.080556	677.06	5.00	682.06
12	37.026466	-86.083040	727.73	5.00	732.73

2-Mile Flight Path Receptor(s)

Name: Glasgow Municipal Airport Runway 26
Description:
Threshold height : 50 ft
Direction: 252.2 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.033844	-85.946199	714.75	50.00	764.75
2-mile point	37.042702	-85.911682	732.56	585.62	1318.18

Name: Glasgow Municipal Airport Runway 8
Description:
Threshold height : 50 ft
Direction: 70.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.029484	-85.962314	707.66	50.00	757.66
2-mile point	37.019838	-85.996495	701.55	609.54	1311.09

Route Receptor(s)

Name: Cumberland Parkway Eastbound

Route type One-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.051281	-86.097656	664.33	5.00	669.33
2	37.050502	-86.095134	659.04	5.00	664.04
3	37.049748	-86.092066	658.65	5.00	663.65
4	37.048087	-86.085189	673.08	5.00	678.08
5	37.046665	-86.079438	718.86	5.00	723.86
6	37.045869	-86.076488	731.04	5.00	736.04
7	37.045158	-86.074342	730.28	5.00	735.28
8	37.044199	-86.071778	725.10	5.00	730.10
9	37.043086	-86.069192	720.02	5.00	725.02
10	37.042041	-86.067079	725.93	5.00	730.93
11	37.040799	-86.064901	740.54	5.00	745.54
12	37.038881	-86.061886	743.60	5.00	748.60
13	37.036757	-86.058935	735.06	5.00	740.06

Name: Cumberland Parkway Westbound

Route type One-way

View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036843	-86.058742	735.15	5.00	740.15
2	37.038975	-86.061725	743.44	5.00	748.44
3	37.040911	-86.064707	740.72	5.00	745.72
4	37.042161	-86.066961	725.82	5.00	730.82
5	37.043206	-86.069085	720.12	5.00	725.12
6	37.044319	-86.071638	725.78	5.00	730.78
7	37.045278	-86.074256	730.58	5.00	735.58
8	37.046032	-86.076445	731.60	5.00	736.60
9	37.046845	-86.079395	718.78	5.00	723.78
10	37.048232	-86.085189	672.96	5.00	677.96
11	37.049919	-86.092045	658.55	5.00	663.55
12	37.050630	-86.095092	658.83	5.00	663.83
13	37.051418	-86.097548	664.03	5.00	669.03

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023826	-86.095485	698.05	5.00	703.05
2	37.024442	-86.095571	697.40	5.00	702.40
3	37.027286	-86.095807	687.39	5.00	692.39
4	37.027594	-86.095989	685.32	5.00	690.32
5	37.027851	-86.096762	679.29	5.00	684.29
6	37.028160	-86.096740	677.47	5.00	682.47
7	37.030352	-86.095485	676.79	5.00	681.79
8	37.031954	-86.094509	654.34	5.00	659.34
9	37.032202	-86.094155	643.91	5.00	648.91
10	37.032768	-86.093329	644.25	5.00	649.25
11	37.033162	-86.092932	644.10	5.00	649.10
12	37.034412	-86.092288	665.08	5.00	670.08
13	37.036725	-86.091194	682.24	5.00	687.24
14	37.038317	-86.089874	695.81	5.00	700.81
15	37.039311	-86.089348	686.91	5.00	691.91
16	37.039705	-86.089101	681.68	5.00	686.68
17	37.040167	-86.088554	675.53	5.00	680.53
18	37.040484	-86.088286	673.17	5.00	678.17
19	37.041092	-86.088082	667.73	5.00	672.73
20	37.041666	-86.087481	673.58	5.00	678.58
21	37.042248	-86.086816	687.64	5.00	692.64
22	37.042796	-86.085840	702.81	5.00	707.81
23	37.043293	-86.084853	708.86	5.00	713.86
24	37.043833	-86.084263	707.51	5.00	712.51
25	37.045794	-86.082653	692.28	5.00	697.28
26	37.046299	-86.082321	684.21	5.00	689.21
27	37.047258	-86.081774	690.01	5.00	695.01

Name: Oak Grove Church Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.049613	-86.099047	662.89	5.00	667.89
2	37.048851	-86.097159	663.74	5.00	668.74
3	37.047780	-86.094648	672.26	5.00	677.26
4	37.046873	-86.092299	682.95	5.00	687.95
5	37.046658	-86.091472	691.26	5.00	696.26
6	37.046367	-86.089573	688.48	5.00	693.48
7	37.045023	-86.083286	699.73	5.00	704.73
8	37.044783	-86.082106	715.20	5.00	720.20
9	37.044042	-86.079810	730.66	5.00	735.66
10	37.043978	-86.079521	727.64	5.00	732.64
11	37.043940	-86.079065	726.91	5.00	731.91
12	37.043935	-86.076329	730.76	5.00	735.76
13	37.043884	-86.074537	730.38	5.00	735.38
14	37.043815	-86.074221	729.84	5.00	734.84
15	37.043434	-86.073636	734.37	5.00	739.37
16	37.043002	-86.073148	731.63	5.00	736.63
17	37.042514	-86.072885	728.74	5.00	733.74
18	37.041422	-86.072515	718.88	5.00	723.88
19	37.041148	-86.072273	713.86	5.00	718.86
20	37.040947	-86.071903	704.69	5.00	709.69
21	37.040827	-86.071402	697.27	5.00	702.27
22	37.040523	-86.069698	690.17	5.00	695.17
23	37.040296	-86.067413	716.99	5.00	721.99
24	37.040120	-86.066571	723.33	5.00	728.33
25	37.039782	-86.065546	736.00	5.00	741.00
26	37.039671	-86.065080	738.68	5.00	743.68
27	37.039444	-86.063760	740.63	5.00	745.63

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.044582	-86.105983	678.48	5.00	683.48
2	37.044111	-86.104707	672.18	5.00	677.18
3	37.043854	-86.104277	674.98	5.00	679.98
4	37.043606	-86.103848	682.05	5.00	687.05
5	37.042313	-86.100082	682.92	5.00	687.92
6	37.042184	-86.100061	683.13	5.00	688.13
7	37.041936	-86.100276	686.51	5.00	691.51
8	37.040146	-86.102496	683.80	5.00	688.80
9	37.039923	-86.102561	683.25	5.00	688.25
10	37.039718	-86.102507	679.13	5.00	684.13
11	37.038022	-86.102132	697.95	5.00	702.95

Name: US 68
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023757	-86.095453	698.48	5.00	703.48
2	37.024134	-86.093833	712.80	5.00	717.80
3	37.024725	-86.091623	712.08	5.00	717.08
4	37.025556	-86.088350	717.33	5.00	722.33
5	37.025967	-86.086698	692.52	5.00	697.52
6	37.026113	-86.085572	692.59	5.00	697.59
7	37.026147	-86.084381	713.16	5.00	718.16
8	37.026036	-86.081827	702.53	5.00	707.53
9	37.025898	-86.079274	689.31	5.00	694.31
10	37.025967	-86.078308	704.21	5.00	709.21
11	37.026447	-86.074435	711.28	5.00	716.28
12	37.026481	-86.073362	719.44	5.00	724.44

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	37.011816	-85.904852	831.81	500.00	1331.81
OP 2	37.026447	-86.083909	732.90	16.00	748.90
OP 3	37.025941	-86.083549	734.65	16.00	750.65
OP 4	37.026156	-86.087685	722.82	16.00	738.82
OP 5	37.026186	-86.089305	725.79	16.00	741.79
OP 6	37.034406	-86.091907	671.64	16.00	687.64
OP 7	37.034860	-86.091786	669.66	16.00	685.66
OP 8	37.035380	-86.091065	680.21	16.00	696.21
OP 9	37.036231	-86.091140	689.76	16.00	705.76
OP 10	37.041631	-86.088099	675.63	16.00	691.63
OP 11	37.046230	-86.090902	694.59	16.00	710.59
OP 12	37.046339	-86.088507	696.97	16.00	712.97
OP 13	37.047442	-86.094478	676.17	16.00	692.17
OP 14	37.047756	-86.093592	679.19	16.00	695.19
OP 15	37.045605	-86.085033	700.58	16.00	716.58
OP 16	37.044278	-86.078043	740.43	16.00	756.43
OP 17	37.040683	-86.068551	715.48	16.00	731.48
OP 18	37.040666	-86.068119	723.29	16.00	739.29
OP 19	37.039865	-86.065083	744.62	16.00	760.62
OP 20	37.039071	-86.063538	741.34	16.00	757.34
OP 21	37.024613	-86.081058	728.52	16.00	744.52
OP 22	37.025046	-86.075935	736.15	16.00	752.15
OP 23	37.024776	-86.075265	730.51	16.00	746.51
OP 24	37.025847	-86.071896	741.18	16.00	757.18
OP 25	37.026523	-86.071215	749.91	16.00	765.91
OP 26	37.025493	-86.087634	723.40	16.00	739.40
OP 27	37.028577	-86.097086	681.21	16.00	697.21
OP 28	37.029206	-86.096700	694.19	16.00	710.19
OP 29	37.029596	-86.096496	696.37	16.00	712.37
OP 30	37.030080	-86.096051	682.14	16.00	698.14
OP 31	37.029647	-86.095249	690.55	16.00	706.55
OP 32	37.031526	-86.095080	677.94	16.00	693.94
OP 33	37.043066	-86.103205	687.48	16.00	703.48
OP 34	37.046487	-86.081460	701.10	16.00	717.10
OP 35	37.048538	-86.080653	687.04	16.00	703.04
OP 36	37.051338	-86.088415	657.16	16.00	673.16
OP 37	37.043272	-86.072816	737.62	16.00	753.62
OP 38	37.038846	-86.063124	743.85	16.00	759.85
OP 39	37.035788	-86.060912	755.52	16.00	771.52
OP 40	37.037856	-86.062768	739.96	16.00	755.96

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
301	SA tracking	SA tracking	0	0	-	-
302	SA tracking	SA tracking	0	0	-	-
303	SA tracking	SA tracking	0	0	-	-
304	SA tracking	SA tracking	0	0	-	-
305	SA tracking	SA tracking	0	0	-	-
306	SA tracking	SA tracking	0	0	-	-
307	SA tracking	SA tracking	0	0	-	-
308	SA tracking	SA tracking	0	0	-	-
309	SA tracking	SA tracking	0	0	-	-
310	SA tracking	SA tracking	0	0	-	-
311	SA tracking	SA tracking	0	0	-	-
312	SA tracking	SA tracking	0	0	-	-
313	SA tracking	SA tracking	0	0	-	-
314	SA tracking	SA tracking	0	0	-	-
315	SA tracking	SA tracking	0	0	-	-
316	SA tracking	SA tracking	0	0	-	-
317	SA tracking	SA tracking	0	0	-	-
318	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

301 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

302 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

303 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

304 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

305 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

306 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

307 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

308 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

309 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

310 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

311 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

312 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

313 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

314 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

315 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

316 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

317 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

318 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

Assumptions

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

Wood Duck

Block 3 9ft vehicle

Created Apr 27, 2023
Updated Apr 27, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 89275.15739

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

Misc. Analysis Settings

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

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	0	0	-
302	SA tracking	SA tracking	0	0	-
303	SA tracking	SA tracking	0	0	-
304	SA tracking	SA tracking	0	0	-
305	SA tracking	SA tracking	0	0	-
306	SA tracking	SA tracking	0	0	-
307	SA tracking	SA tracking	0	0	-
308	SA tracking	SA tracking	0	0	-
309	SA tracking	SA tracking	0	0	-
310	SA tracking	SA tracking	0	0	-
311	SA tracking	SA tracking	0	0	-
312	SA tracking	SA tracking	0	0	-
313	SA tracking	SA tracking	0	0	-
314	SA tracking	SA tracking	0	0	-
315	SA tracking	SA tracking	0	0	-
316	SA tracking	SA tracking	0	0	-
317	SA tracking	SA tracking	0	0	-
318	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 183.0 acres

Name: 301
Footprint area: 7.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.047387	-86.088859	672.94	5.00	677.94
2	37.048113	-86.088848	668.96	5.00	673.96
3	37.048105	-86.087770	678.35	5.00	683.35
4	37.048002	-86.086970	672.95	5.00	677.95
5	37.047762	-86.086300	675.46	5.00	680.46
6	37.046841	-86.086300	683.66	5.00	688.66
7	37.046841	-86.086016	680.93	5.00	685.93
8	37.046184	-86.086010	693.33	5.00	698.33
9	37.046186	-86.086187	695.44	5.00	700.44
10	37.045930	-86.086190	698.12	5.00	703.12
11	37.046204	-86.087032	691.01	5.00	696.01
12	37.046638	-86.087029	684.21	5.00	689.21
13	37.046640	-86.087204	682.80	5.00	687.80
14	37.046916	-86.087571	689.75	5.00	694.75
15	37.047173	-86.087544	688.56	5.00	693.56
16	37.047368	-86.087858	684.97	5.00	689.97
17	37.047372	-86.088306	678.82	5.00	683.82

Name: 302
Footprint area: 3.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.046326	-86.084334	689.33	5.00	694.33
2	37.047094	-86.084312	688.66	5.00	693.66
3	37.047090	-86.083057	676.77	5.00	681.77
4	37.045910	-86.083057	689.55	5.00	694.55
5	37.045917	-86.083977	694.73	5.00	699.73
6	37.046313	-86.083969	696.85	5.00	701.85

Name: 303
Footprint area: 5.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



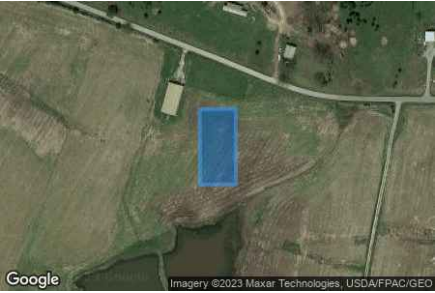
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.045110	-86.082183	708.88	5.00	713.88
2	37.045842	-86.082177	689.42	5.00	694.42
3	37.045487	-86.080844	710.36	5.00	715.36
4	37.045776	-86.080796	700.85	5.00	705.85
5	37.045431	-86.079672	714.15	5.00	719.15
6	37.045418	-86.079171	715.72	5.00	720.72
7	37.044615	-86.079176	727.56	5.00	732.56
8	37.044613	-86.079294	727.58	5.00	732.58
9	37.044671	-86.079297	727.62	5.00	732.62
10	37.044679	-86.079659	726.18	5.00	731.18
11	37.045108	-86.080836	718.38	5.00	723.38
12	37.044724	-86.080858	725.36	5.00	730.36

Name: 304
Footprint area: 19.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043949	-86.084578	708.32	5.00	713.32
2	37.044750	-86.084605	706.68	5.00	711.68
3	37.044750	-86.086364	709.96	5.00	714.96
4	37.045118	-86.086337	709.50	5.00	714.50
5	37.045183	-86.089277	694.91	5.00	699.91
6	37.044545	-86.089309	695.47	5.00	700.47
7	37.044579	-86.091482	673.54	5.00	678.54
8	37.043470	-86.091487	678.16	5.00	683.16
9	37.043397	-86.089283	682.93	5.00	687.93
10	37.043226	-86.089283	682.56	5.00	687.56
11	37.043196	-86.088263	683.58	5.00	688.58
12	37.043997	-86.088231	688.56	5.00	693.56

Name: 305
Footprint area: 0.65 acre
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043862	-86.080839	724.72	5.00	729.72
2	37.043866	-86.080442	725.96	5.00	730.96
3	37.043198	-86.080439	716.24	5.00	721.24
4	37.043194	-86.080836	718.04	5.00	723.04

Name: 306
Footprint area: 9.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043630	-86.084023	706.22	5.00	711.22
2	37.043628	-86.083422	710.98	5.00	715.98
3	37.044333	-86.083417	699.65	5.00	704.65
4	37.044350	-86.082236	718.11	5.00	723.11
5	37.043725	-86.082215	717.93	5.00	722.93
6	37.043725	-86.081378	723.27	5.00	728.27
7	37.042864	-86.081367	717.48	5.00	722.48
8	37.042851	-86.081925	718.02	5.00	723.02
9	37.042556	-86.081904	713.86	5.00	718.86
10	37.042491	-86.082156	716.46	5.00	721.46
11	37.042487	-86.082993	720.74	5.00	725.74
12	37.041798	-86.082993	703.77	5.00	708.77
13	37.041806	-86.083459	710.31	5.00	715.31
14	37.042496	-86.083449	718.98	5.00	723.98
15	37.042491	-86.084087	708.86	5.00	713.86

Name: 307
Footprint area: 7.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.041712	-86.086785	679.62	5.00	684.62
2	37.041922	-86.086533	683.44	5.00	688.44
3	37.041918	-86.084554	707.56	5.00	712.56
4	37.041708	-86.084548	708.24	5.00	713.24
5	37.041708	-86.083958	711.04	5.00	716.04
6	37.041040	-86.083953	691.77	5.00	696.77
7	37.041048	-86.084495	695.23	5.00	700.23
8	37.040749	-86.084489	687.93	5.00	692.93
9	37.040783	-86.086555	672.84	5.00	677.84
10	37.040667	-86.086844	669.86	5.00	674.86

Name: 308
Footprint area: 8.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.039721	-86.088606	682.57	5.00	687.57
2	37.039000	-86.088630	695.76	5.00	700.76
3	37.038985	-86.087348	693.32	5.00	698.32
4	37.038387	-86.087310	696.56	5.00	701.56
5	37.038396	-86.086414	695.59	5.00	700.59
6	37.038210	-86.086417	690.09	5.00	695.09
7	37.038214	-86.086259	689.41	5.00	694.41
8	37.038356	-86.085839	686.67	5.00	691.67
9	37.039298	-86.085846	684.55	5.00	689.55
10	37.040227	-86.086798	675.16	5.00	680.16
11	37.040253	-86.087597	678.62	5.00	683.62
12	37.039943	-86.087608	691.59	5.00	696.59

Name: 309
Footprint area: 6.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.040245	-86.085148	683.09	5.00	688.09
2	37.039163	-86.085132	680.74	5.00	685.74
3	37.039157	-86.084212	686.09	5.00	691.09
4	37.039474	-86.084231	686.95	5.00	691.95
5	37.039472	-86.083928	688.39	5.00	693.39
6	37.040746	-86.082584	717.95	5.00	722.95
7	37.041846	-86.082563	705.07	5.00	710.07
8	37.040377	-86.083759	694.57	5.00	699.57

Name: 310
Footprint area: 11.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.041887	-86.080578	718.83	5.00	723.83
2	37.041167	-86.080615	731.61	5.00	736.61
3	37.041172	-86.077863	713.10	5.00	718.10
4	37.043351	-86.077880	716.97	5.00	721.97
5	37.043368	-86.079317	723.44	5.00	728.44
6	37.043051	-86.079328	723.41	5.00	728.41
7	37.043056	-86.079618	720.34	5.00	725.34
8	37.042272	-86.079612	722.28	5.00	727.28
9	37.042272	-86.080143	716.88	5.00	721.88
10	37.041908	-86.080122	720.76	5.00	725.76

Name: 311
Footprint area: 16.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.041167	-86.080621	731.61	5.00	736.61
2	37.041167	-86.081356	732.38	5.00	737.38
3	37.040812	-86.081356	731.86	5.00	736.86
4	37.040816	-86.081667	731.54	5.00	736.54
5	37.040054	-86.081715	719.65	5.00	724.65
6	37.040097	-86.082353	721.36	5.00	726.36
7	37.039720	-86.082380	712.00	5.00	717.00
8	37.039737	-86.082724	710.14	5.00	715.14
9	37.038846	-86.082761	699.07	5.00	704.07
10	37.038799	-86.079274	705.39	5.00	710.39
11	37.041176	-86.079333	727.75	5.00	732.75

Name: 312
Footprint area: 15.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.041167	-86.077939	714.21	5.00	719.21
2	37.041163	-86.079333	727.68	5.00	732.68
3	37.038799	-86.079280	705.26	5.00	710.26
4	37.038778	-86.077542	718.52	5.00	723.52
5	37.038637	-86.077547	717.88	5.00	722.88
6	37.038628	-86.075154	686.81	5.00	691.81
7	37.039472	-86.075181	683.46	5.00	688.46
8	37.039746	-86.075557	686.45	5.00	691.45
9	37.039776	-86.077311	720.77	5.00	725.77
10	37.039990	-86.077306	720.66	5.00	725.66
11	37.039998	-86.078030	720.57	5.00	725.57

Name: 313
Footprint area: 24.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.038632	-86.077558	717.89	5.00	722.89
2	37.038637	-86.078089	716.06	5.00	721.06
3	37.037742	-86.078126	717.33	5.00	722.33
4	37.037759	-86.078931	721.63	5.00	726.63
5	37.038401	-86.078915	712.36	5.00	717.36
6	37.038427	-86.081887	697.88	5.00	702.88
7	37.037665	-86.081924	709.00	5.00	714.00
8	37.037643	-86.081458	703.81	5.00	708.81
9	37.036770	-86.081463	722.63	5.00	727.63
10	37.036770	-86.076726	678.71	5.00	683.71
11	37.036860	-86.076721	681.04	5.00	686.04
12	37.036851	-86.075986	671.84	5.00	676.84
13	37.037549	-86.076002	678.75	5.00	683.75
14	37.037545	-86.075144	671.83	5.00	676.83
15	37.038624	-86.075160	687.14	5.00	692.14

Name: 314
Footprint area: 18.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036770	-86.081466	722.49	5.00	727.49
2	37.036517	-86.081490	720.64	5.00	725.64
3	37.036491	-86.081050	722.79	5.00	727.79
4	37.035455	-86.081039	703.50	5.00	708.50
5	37.035442	-86.079870	698.25	5.00	703.25
6	37.034444	-86.079907	693.96	5.00	698.96
7	37.034466	-86.080653	710.71	5.00	715.71
8	37.033297	-86.080642	683.23	5.00	688.23
9	37.033310	-86.079349	660.88	5.00	665.88
10	37.033605	-86.079355	663.70	5.00	668.70
11	37.033605	-86.078995	662.43	5.00	667.43
12	37.034393	-86.078979	670.71	5.00	675.71
13	37.034393	-86.078636	665.21	5.00	670.21
14	37.035438	-86.078641	684.84	5.00	689.84
15	37.035464	-86.078051	672.60	5.00	677.60
16	37.035806	-86.078035	680.16	5.00	685.16
17	37.035806	-86.077633	671.15	5.00	676.15
18	37.036547	-86.077644	685.59	5.00	690.59
19	37.036547	-86.076705	674.29	5.00	679.29
20	37.036774	-86.076705	678.73	5.00	683.73

Name: 315
Footprint area: 4.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.039684	-86.075120	685.40	5.00	690.40
2	37.040463	-86.075118	703.92	5.00	708.92
3	37.040478	-86.072578	691.58	5.00	696.58
4	37.039692	-86.072580	677.61	5.00	682.61
5	37.039690	-86.073471	684.88	5.00	689.88

Name: 316
Footprint area: 7.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.042570	-86.072127	737.14	5.00	742.14
2	37.042559	-86.069544	718.68	5.00	723.68
3	37.041416	-86.069515	696.16	5.00	701.16
4	37.041478	-86.072103	716.05	5.00	721.05

Name: 317
Footprint area: 2.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.031323	-86.084542	656.64	5.00	661.64
2	37.031338	-86.085676	656.37	5.00	661.37
3	37.032115	-86.085660	674.20	5.00	679.20
4	37.032098	-86.084534	686.45	5.00	691.45

Name: 318
Footprint area: 15.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029314	-86.082911	669.39	5.00	674.39
2	37.029305	-86.082675	671.82	5.00	676.82
3	37.029742	-86.082664	658.47	5.00	663.47
4	37.029734	-86.081538	661.87	5.00	666.87
5	37.029323	-86.081505	664.45	5.00	669.45
6	37.028826	-86.081468	680.16	5.00	685.16
7	37.028830	-86.080964	664.56	5.00	669.56
8	37.027605	-86.080905	683.18	5.00	688.18
9	37.027592	-86.080733	675.73	5.00	680.73
10	37.027117	-86.080567	674.00	5.00	679.00
11	37.026436	-86.080556	677.06	5.00	682.06
12	37.026466	-86.083040	727.73	5.00	732.73

2-Mile Flight Path Receptor(s)

Name: Glasgow Municipal Airport Runway 26
Description:
Threshold height : 50 ft
Direction: 252.2 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.033844	-85.946199	714.75	50.00	764.75
2-mile point	37.042702	-85.911682	732.56	585.62	1318.18

Name: Glasgow Municipal Airport Runway 8
Description:
Threshold height : 50 ft
Direction: 70.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.029484	-85.962314	707.66	50.00	757.66
2-mile point	37.019838	-85.996495	701.55	609.54	1311.09

Route Receptor(s)

Name: Cumberland Parkway Eastbound
Route type One-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.051281	-86.097656	664.33	9.00	673.33
2	37.050502	-86.095134	659.04	9.00	668.04
3	37.049748	-86.092066	658.65	9.00	667.65
4	37.048087	-86.085189	673.08	9.00	682.08
5	37.046665	-86.079438	718.86	9.00	727.86
6	37.045869	-86.076488	731.04	9.00	740.04
7	37.045158	-86.074342	730.28	9.00	739.28
8	37.044199	-86.071778	725.10	9.00	734.10
9	37.043086	-86.069192	720.02	9.00	729.02
10	37.042041	-86.067079	725.93	9.00	734.93
11	37.040799	-86.064901	740.54	9.00	749.54
12	37.038881	-86.061886	743.60	9.00	752.60
13	37.036757	-86.058935	735.06	9.00	744.06

Name: Cumberland Parkway Westbound
Route type One-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.036843	-86.058742	735.15	9.00	744.15
2	37.038975	-86.061725	743.44	9.00	752.44
3	37.040911	-86.064707	740.72	9.00	749.72
4	37.042161	-86.066961	725.82	9.00	734.82
5	37.043206	-86.069085	720.12	9.00	729.12
6	37.044319	-86.071638	725.78	9.00	734.78
7	37.045278	-86.074256	730.58	9.00	739.58
8	37.046032	-86.076445	731.60	9.00	740.60
9	37.046845	-86.079395	718.78	9.00	727.78
10	37.048232	-86.085189	672.96	9.00	681.96
11	37.049919	-86.092045	658.55	9.00	667.55
12	37.050630	-86.095092	658.83	9.00	667.83
13	37.051418	-86.097548	664.03	9.00	673.03

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023826	-86.095485	698.05	9.00	707.05
2	37.024442	-86.095571	697.40	9.00	706.40
3	37.027286	-86.095807	687.39	9.00	696.39
4	37.027594	-86.095989	685.32	9.00	694.32
5	37.027851	-86.096762	679.29	9.00	688.29
6	37.028160	-86.096740	677.47	9.00	686.47
7	37.030352	-86.095485	676.79	9.00	685.79
8	37.031954	-86.094509	654.34	9.00	663.34
9	37.032202	-86.094155	643.91	9.00	652.91
10	37.032768	-86.093329	644.25	9.00	653.25
11	37.033162	-86.092932	644.10	9.00	653.10
12	37.034412	-86.092288	665.08	9.00	674.08
13	37.036725	-86.091194	682.24	9.00	691.24
14	37.038317	-86.089874	695.81	9.00	704.81
15	37.039311	-86.089348	686.91	9.00	695.91
16	37.039705	-86.089101	681.68	9.00	690.68
17	37.040167	-86.088554	675.53	9.00	684.53
18	37.040484	-86.088286	673.17	9.00	682.17
19	37.041092	-86.088082	667.73	9.00	676.73
20	37.041666	-86.087481	673.58	9.00	682.58
21	37.042248	-86.086816	687.64	9.00	696.64
22	37.042796	-86.085840	702.81	9.00	711.81
23	37.043293	-86.084853	708.86	9.00	717.86
24	37.043833	-86.084263	707.51	9.00	716.51
25	37.045794	-86.082653	692.28	9.00	701.28
26	37.046299	-86.082321	684.21	9.00	693.21
27	37.047258	-86.081774	690.01	9.00	699.01

Name: Oak Grove Church Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.049613	-86.099047	662.89	9.00	671.89
2	37.048851	-86.097159	663.74	9.00	672.74
3	37.047780	-86.094648	672.26	9.00	681.26
4	37.046873	-86.092299	682.95	9.00	691.95
5	37.046658	-86.091472	691.26	9.00	700.26
6	37.046367	-86.089573	688.48	9.00	697.48
7	37.045023	-86.083286	699.73	9.00	708.73
8	37.044783	-86.082106	715.20	9.00	724.20
9	37.044042	-86.079810	730.66	9.00	739.66
10	37.043978	-86.079521	727.64	9.00	736.64
11	37.043940	-86.079065	726.91	9.00	735.91
12	37.043935	-86.076329	730.76	9.00	739.76
13	37.043884	-86.074537	730.38	9.00	739.38
14	37.043815	-86.074221	729.84	9.00	738.84
15	37.043434	-86.073636	734.37	9.00	743.37
16	37.043002	-86.073148	731.63	9.00	740.63
17	37.042514	-86.072885	728.74	9.00	737.74
18	37.041422	-86.072515	718.88	9.00	727.88
19	37.041148	-86.072273	713.86	9.00	722.86
20	37.040947	-86.071903	704.69	9.00	713.69
21	37.040827	-86.071402	697.27	9.00	706.27
22	37.040523	-86.069698	690.17	9.00	699.17
23	37.040296	-86.067413	716.99	9.00	725.99
24	37.040120	-86.066571	723.33	9.00	732.33
25	37.039782	-86.065546	736.00	9.00	745.00
26	37.039671	-86.065080	738.68	9.00	747.68
27	37.039444	-86.063760	740.63	9.00	749.63

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.044582	-86.105983	678.48	9.00	687.48
2	37.044111	-86.104707	672.18	9.00	681.18
3	37.043854	-86.104277	674.98	9.00	683.98
4	37.043606	-86.103848	682.05	9.00	691.05
5	37.042313	-86.100082	682.92	9.00	691.92
6	37.042184	-86.100061	683.13	9.00	692.13
7	37.041936	-86.100276	686.51	9.00	695.51
8	37.040146	-86.102496	683.80	9.00	692.80
9	37.039923	-86.102561	683.25	9.00	692.25
10	37.039718	-86.102507	679.13	9.00	688.13
11	37.038022	-86.102132	697.95	9.00	706.95

Name: US 68
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023757	-86.095453	698.48	9.00	707.48
2	37.024134	-86.093833	712.80	9.00	721.80
3	37.024725	-86.091623	712.08	9.00	721.08
4	37.025556	-86.088350	717.33	9.00	726.33
5	37.025967	-86.086698	692.52	9.00	701.52
6	37.026113	-86.085572	692.59	9.00	701.59
7	37.026147	-86.084381	713.16	9.00	722.16
8	37.026036	-86.081827	702.53	9.00	711.53
9	37.025898	-86.079274	689.31	9.00	698.31
10	37.025967	-86.078308	704.21	9.00	713.21
11	37.026447	-86.074435	711.28	9.00	720.28
12	37.026481	-86.073362	719.44	9.00	728.44

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	37.011816	-85.904852	831.81	500.00	1331.81
OP 2	37.026447	-86.083909	732.90	16.00	748.90
OP 3	37.025941	-86.083549	734.65	16.00	750.65
OP 4	37.026156	-86.087685	722.82	16.00	738.82
OP 5	37.026186	-86.089305	725.79	16.00	741.79
OP 6	37.034406	-86.091907	671.64	16.00	687.64
OP 7	37.034860	-86.091786	669.66	16.00	685.66
OP 8	37.035380	-86.091065	680.21	16.00	696.21
OP 9	37.036231	-86.091140	689.76	16.00	705.76
OP 10	37.041631	-86.088099	675.63	16.00	691.63
OP 11	37.046230	-86.090902	694.59	16.00	710.59
OP 12	37.046339	-86.088507	696.97	16.00	712.97
OP 13	37.047442	-86.094478	676.17	16.00	692.17
OP 14	37.047756	-86.093592	679.19	16.00	695.19
OP 15	37.045605	-86.085033	700.58	16.00	716.58
OP 16	37.044278	-86.078043	740.43	16.00	756.43
OP 17	37.040683	-86.068551	715.48	16.00	731.48
OP 18	37.040666	-86.068119	723.29	16.00	739.29
OP 19	37.039865	-86.065083	744.62	16.00	760.62
OP 20	37.039071	-86.063538	741.34	16.00	757.34
OP 21	37.024613	-86.081058	728.52	16.00	744.52
OP 22	37.025046	-86.075935	736.15	16.00	752.15
OP 23	37.024776	-86.075265	730.51	16.00	746.51
OP 24	37.025847	-86.071896	741.18	16.00	757.18
OP 25	37.026523	-86.071215	749.91	16.00	765.91
OP 26	37.025493	-86.087634	723.40	16.00	739.40
OP 27	37.028577	-86.097086	681.21	16.00	697.21
OP 28	37.029206	-86.096700	694.19	16.00	710.19
OP 29	37.029596	-86.096496	696.37	16.00	712.37
OP 30	37.030080	-86.096051	682.14	16.00	698.14
OP 31	37.029647	-86.095249	690.55	16.00	706.55
OP 32	37.031526	-86.095080	677.94	16.00	693.94
OP 33	37.043066	-86.103205	687.48	16.00	703.48
OP 34	37.046487	-86.081460	701.10	16.00	717.10
OP 35	37.048538	-86.080653	687.04	16.00	703.04
OP 36	37.051338	-86.088415	657.16	16.00	673.16
OP 37	37.043272	-86.072816	737.62	16.00	753.62
OP 38	37.038846	-86.063124	743.85	16.00	759.85
OP 39	37.035788	-86.060912	755.52	16.00	771.52
OP 40	37.037856	-86.062768	739.96	16.00	755.96

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
301	SA tracking	SA tracking	0	0	-	-
302	SA tracking	SA tracking	0	0	-	-
303	SA tracking	SA tracking	0	0	-	-
304	SA tracking	SA tracking	0	0	-	-
305	SA tracking	SA tracking	0	0	-	-
306	SA tracking	SA tracking	0	0	-	-
307	SA tracking	SA tracking	0	0	-	-
308	SA tracking	SA tracking	0	0	-	-
309	SA tracking	SA tracking	0	0	-	-
310	SA tracking	SA tracking	0	0	-	-
311	SA tracking	SA tracking	0	0	-	-
312	SA tracking	SA tracking	0	0	-	-
313	SA tracking	SA tracking	0	0	-	-
314	SA tracking	SA tracking	0	0	-	-
315	SA tracking	SA tracking	0	0	-	-
316	SA tracking	SA tracking	0	0	-	-
317	SA tracking	SA tracking	0	0	-	-
318	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

301 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

302 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

303 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

304 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

305 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

306 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

307 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

308 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

309 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

310 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

311 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

312 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

313 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

314 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

315 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

316 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

317 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

318 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Parkway Eastbound	0	0
Route: Cumberland Parkway Westbound	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Payne Loop Road	0	0
Route: US 68	0	0

Assumptions

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

Wood Duck

Block 4 5ft vehicle

Created Jun 01, 2023
Updated Jun 01, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 91997.15739

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

Misc. Analysis Settings

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

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
401	SA tracking	SA tracking	0	0	-
402	SA tracking	SA tracking	0	0	-
403	SA tracking	SA tracking	1,091	0	-
404	SA tracking	SA tracking	0	0	-
405	SA tracking	SA tracking	0	0	-
406	SA tracking	SA tracking	0	0	-
407	SA tracking	SA tracking	0	0	-
408	SA tracking	SA tracking	0	0	-
409	SA tracking	SA tracking	0	0	-
410	SA tracking	SA tracking	0	0	-
411	SA tracking	SA tracking	0	0	-
412	SA tracking	SA tracking	0	0	-
413	SA tracking	SA tracking	0	0	-
414	SA tracking	SA tracking	0	0	-
415	SA tracking	SA tracking	0	0	-
416	SA tracking	SA tracking	0	0	-
417	SA tracking	SA tracking	0	0	-
418	SA tracking	SA tracking	0	0	-
419	SA tracking	SA tracking	0	0	-

Component Data

Name: 403
Footprint area: 3.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027540	-86.076888	707.90	5.00	712.90
2	37.027540	-86.076657	705.37	5.00	710.37
3	37.026761	-86.076662	716.41	5.00	721.41
4	37.026735	-86.075090	713.29	5.00	718.29
5	37.027523	-86.075080	723.57	5.00	728.57
6	37.027523	-86.074854	726.67	5.00	731.67
7	37.027750	-86.074876	721.48	5.00	726.48
8	37.027763	-86.076898	692.58	5.00	697.58

Name: 404
Footprint area: 12.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024491	-86.082188	724.09	5.00	729.09
2	37.024500	-86.083201	727.78	5.00	732.78
3	37.024153	-86.083218	723.82	5.00	728.82
4	37.024170	-86.084628	703.83	5.00	708.83
5	37.023360	-86.084618	697.16	5.00	702.16
6	37.023343	-86.084274	703.76	5.00	708.76
7	37.022667	-86.084301	697.48	5.00	702.48
8	37.022380	-86.083920	697.88	5.00	702.88
9	37.022260	-86.083684	698.84	5.00	703.84
10	37.022260	-86.081571	718.20	5.00	723.20
11	37.023373	-86.081560	723.66	5.00	728.66
12	37.023382	-86.082204	722.24	5.00	727.24

Name: 405
Footprint area: 8.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037069	-86.074402	680.06	5.00	685.06
2	37.037822	-86.074402	678.34	5.00	683.34
3	37.037805	-86.074037	686.80	5.00	691.80
4	37.038139	-86.074027	678.88	5.00	683.88
5	37.038088	-86.071044	739.88	5.00	744.88
6	37.037035	-86.071065	727.65	5.00	732.65



Name: 406
Footprint area: 19.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037056	-86.074393	680.20	5.00	685.20
2	37.036362	-86.074468	678.60	5.00	683.60
3	37.035788	-86.074012	673.62	5.00	678.62
4	37.035728	-86.067966	723.65	5.00	728.65
5	37.036979	-86.067956	725.96	5.00	730.96



Name: 407
Footprint area: 14.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.035780	-86.073444	679.05	5.00	684.05
2	37.035095	-86.073460	674.90	5.00	679.90
3	37.035090	-86.073186	675.74	5.00	680.74
4	37.034666	-86.073202	672.25	5.00	677.25
5	37.034628	-86.067945	726.99	5.00	731.99
6	37.035724	-86.067956	723.79	5.00	728.79
7	37.035758	-86.070836	709.21	5.00	714.21

Name: 408
Footprint area: 12.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.034658	-86.072140	685.11	5.00	690.11
2	37.033891	-86.072119	679.21	5.00	684.21
3	37.033879	-86.071121	701.68	5.00	706.68
4	37.033600	-86.071121	695.79	5.00	700.79
5	37.033570	-86.069672	734.38	5.00	739.38
6	37.032808	-86.069635	703.54	5.00	708.54
7	37.032825	-86.068460	719.32	5.00	724.32
8	37.033596	-86.068476	743.19	5.00	748.19
9	37.033617	-86.067773	735.00	5.00	740.00
10	37.034636	-86.067747	727.79	5.00	732.79

Name: 409
Footprint area: 21.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.034906	-86.076646	668.00	5.00	673.00
2	37.034919	-86.074726	672.09	5.00	677.09
3	37.034131	-86.074731	710.06	5.00	715.06
4	37.034135	-86.073894	674.52	5.00	679.52
5	37.033292	-86.073889	708.99	5.00	713.99
6	37.033296	-86.075171	719.87	5.00	724.87
7	37.031832	-86.075123	696.56	5.00	701.56
8	37.031844	-86.078926	670.39	5.00	675.39
9	37.032294	-86.078931	667.08	5.00	672.08
10	37.032298	-86.078352	669.56	5.00	674.56
11	37.032692	-86.078320	668.53	5.00	673.53
12	37.032697	-86.077842	678.14	5.00	683.14
13	37.033013	-86.077853	673.32	5.00	678.32
14	37.033013	-86.077724	677.75	5.00	682.75
15	37.033759	-86.077703	663.54	5.00	668.54
16	37.033763	-86.077322	673.32	5.00	678.32
17	37.034123	-86.077311	664.11	5.00	669.11
18	37.034140	-86.076710	691.41	5.00	696.41

Name: 410
Footprint area: 13.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.031837	-86.078937	670.20	5.00	675.20
2	37.031572	-86.078943	674.35	5.00	679.35
3	37.031572	-86.080064	662.26	5.00	667.26
4	37.031191	-86.080085	664.62	5.00	669.62
5	37.031182	-86.080381	662.42	5.00	667.42
6	37.030737	-86.080375	667.36	5.00	672.36
7	37.030762	-86.074812	711.09	5.00	716.09
8	37.031829	-86.074989	699.45	5.00	704.45

Name: 411
Footprint area: 20.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.030735	-86.080369	667.57	5.00	672.57
2	37.030429	-86.080364	670.20	5.00	675.20
3	37.030433	-86.080656	666.72	5.00	671.72
4	37.029305	-86.080704	665.26	5.00	670.26
5	37.029305	-86.074661	720.07	5.00	725.07
6	37.030769	-86.074811	710.79	5.00	715.79

Name: 412
Footprint area: 20.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029309	-86.080310	665.54	5.00	670.54
2	37.028281	-86.080310	668.29	5.00	673.29
3	37.028277	-86.080042	674.15	5.00	679.15
4	37.027780	-86.080053	669.00	5.00	674.00
5	37.027763	-86.074892	721.17	5.00	726.17
6	37.027845	-86.074903	718.54	5.00	723.54
7	37.027853	-86.074356	727.78	5.00	732.78
8	37.029318	-86.074661	720.38	5.00	725.38

Name: 413
Footprint area: 5.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020958	-86.086926	702.84	5.00	707.84
2	37.020915	-86.083708	715.39	5.00	720.39
3	37.020247	-86.083708	717.62	5.00	722.62
4	37.020255	-86.086958	702.97	5.00	707.97

Name: 414
Footprint area: 22.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020255	-86.086958	702.97	5.00	707.97
2	37.019827	-86.087028	700.65	5.00	705.65
3	37.019840	-86.087763	702.09	5.00	707.09
4	37.018786	-86.087795	696.64	5.00	701.64
5	37.018786	-86.081036	733.92	5.00	738.92
6	37.019767	-86.081020	717.32	5.00	722.32
7	37.019754	-86.081395	719.12	5.00	724.12
8	37.020230	-86.081476	711.14	5.00	716.14

Name: 415
Footprint area: 5.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018765	-86.089751	690.94	5.00	695.94
2	37.018756	-86.087809	696.84	5.00	701.84
3	37.017600	-86.087820	701.60	5.00	706.60
4	37.017617	-86.089816	712.64	5.00	717.64

Name: 416
Footprint area: 14.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017523	-86.085907	706.01	5.00	711.01
2	37.017531	-86.081658	747.69	5.00	752.69
3	37.017805	-86.081642	746.17	5.00	751.17
4	37.017797	-86.081031	738.70	5.00	743.70
5	37.018790	-86.081036	733.92	5.00	738.92
6	37.018786	-86.085934	709.11	5.00	714.11

Name: 417
Footprint area: 8.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.038088	-86.071044	739.88	5.00	744.88
2	37.038071	-86.067965	730.80	5.00	735.80
3	37.036992	-86.067965	726.04	5.00	731.04
4	37.037026	-86.071098	727.99	5.00	732.99

Name: 418
Footprint area: 9.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018773	-86.087809	696.77	5.00	701.77
2	37.018790	-86.085932	709.11	5.00	714.11
3	37.016743	-86.085900	713.75	5.00	718.75
4	37.016726	-86.087831	703.12	5.00	708.12

Name: 419
Footprint area: 12.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022268	-86.083740	698.20	5.00	703.20
2	37.022277	-86.081143	720.19	5.00	725.19
3	37.020881	-86.081143	724.05	5.00	729.05
4	37.020889	-86.081487	719.60	5.00	724.60
5	37.020247	-86.081487	711.61	5.00	716.61
6	37.020247	-86.083686	717.64	5.00	722.64

2-Mile Flight Path Receptor(s)

Name: Glasgow Municipal Airport Runway 26
Description:
Threshold height : 50 ft
Direction: 252.2 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.033844	-85.946199	714.75	50.00	764.75
2-mile point	37.042702	-85.911682	732.56	585.62	1318.18

Name: Glasgow Municipal Airport Runway 8
Description:
Threshold height : 50 ft
Direction: 70.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.029484	-85.962314	707.66	50.00	757.66
2-mile point	37.019838	-85.996495	701.55	609.54	1311.09

Route Receptor(s)

Name: Cumberland Highway Eastbound
Route type Two-way
View angle: 50.0 deg



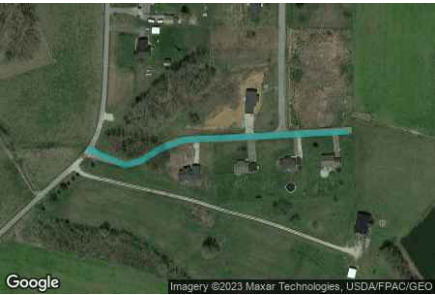
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.047351	-86.082288	682.22	5.00	687.22
2	37.045947	-86.076773	729.39	5.00	734.39
3	37.045108	-86.074220	728.45	5.00	733.45
4	37.043806	-86.070808	723.38	5.00	728.38
5	37.042462	-86.067922	721.94	5.00	726.94
6	37.041040	-86.065293	737.83	5.00	742.83
7	37.039944	-86.063480	743.87	5.00	748.87
8	37.037923	-86.060541	739.70	5.00	744.70
9	37.033281	-86.054082	729.63	5.00	734.63
10	37.032467	-86.052966	733.85	5.00	738.85

Name: Cumberland Highway Westbound
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.032613	-86.052837	734.71	5.00	739.71
2	37.035465	-86.056850	728.82	5.00	733.82
3	37.038034	-86.060380	739.70	5.00	744.70
4	37.040072	-86.063341	745.97	5.00	750.97
5	37.041186	-86.065165	737.69	5.00	742.69
6	37.042590	-86.067836	722.10	5.00	727.10
7	37.043995	-86.070808	723.59	5.00	728.59
8	37.045313	-86.074263	730.35	5.00	735.35
9	37.046118	-86.076795	729.41	5.00	734.41
10	37.047548	-86.082245	680.80	5.00	685.80

Name: Fox Chase Street
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.021731	-86.073061	747.23	5.00	752.23
2	37.021662	-86.074847	726.45	5.00	731.45
3	37.021581	-86.075126	723.11	5.00	728.11
4	37.021469	-86.075357	722.91	5.00	727.91
5	37.021435	-86.075523	722.84	5.00	727.84
6	37.021576	-86.075910	712.96	5.00	717.96

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043409	-86.084740	708.63	5.00	713.63
2	37.043135	-86.085094	707.52	5.00	712.52
3	37.042219	-86.086832	686.36	5.00	691.36
4	37.041097	-86.088055	667.78	5.00	672.78
5	37.040361	-86.088345	673.54	5.00	678.54
6	37.039881	-86.088892	679.82	5.00	684.82
7	37.039427	-86.089289	685.76	5.00	690.76
8	37.038194	-86.089944	694.75	5.00	699.75
9	37.036721	-86.091210	681.97	5.00	686.97
10	37.033244	-86.092841	644.88	5.00	649.88
11	37.032636	-86.093484	643.15	5.00	648.15
12	37.032027	-86.094396	649.25	5.00	654.25
13	37.031771	-86.094632	660.63	5.00	665.63
14	37.028619	-86.096488	680.22	5.00	685.22
15	37.028096	-86.096746	677.04	5.00	682.04
16	37.027805	-86.096681	680.45	5.00	685.45
17	37.027616	-86.096027	684.75	5.00	689.75
18	37.027411	-86.095823	686.29	5.00	691.29
19	37.027145	-86.095802	689.12	5.00	694.12
20	37.023788	-86.095480	698.10	5.00	703.10

Name: Oak Grove Church Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.044243	-86.080507	731.01	5.00	736.01
2	37.043952	-86.079509	727.41	5.00	732.41
3	37.043935	-86.079026	726.82	5.00	731.82
4	37.043943	-86.075700	731.92	5.00	736.92
5	37.043823	-86.074392	730.14	5.00	735.14
6	37.043729	-86.074070	730.55	5.00	735.55
7	37.042907	-86.073072	730.10	5.00	735.10
8	37.041408	-86.072514	718.76	5.00	723.76
9	37.041160	-86.072278	714.21	5.00	719.21
10	37.040912	-86.071838	702.66	5.00	707.66
11	37.040766	-86.071076	694.56	5.00	699.56
12	37.040509	-86.069682	689.99	5.00	694.99
13	37.040338	-86.067750	716.39	5.00	721.39
14	37.040192	-86.066892	721.40	5.00	726.40
15	37.039918	-86.065959	732.39	5.00	737.39
16	37.039687	-86.065272	737.21	5.00	742.21
17	37.039413	-86.063770	740.06	5.00	745.06
18	37.039165	-86.062997	741.33	5.00	746.33
19	37.038848	-86.062558	742.07	5.00	747.07
20	37.038103	-86.061914	742.95	5.00	747.95
21	37.037049	-86.061141	747.61	5.00	752.61
22	37.036844	-86.060841	752.17	5.00	757.17
23	37.036672	-86.060369	754.03	5.00	759.03

Name: Park City Bon Ayr Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037663	-86.060177	744.75	5.00	749.75
2	37.034853	-86.060628	744.73	5.00	749.73
3	37.033980	-86.060928	742.73	5.00	747.73
4	37.032267	-86.061647	739.44	5.00	744.44
5	37.031530	-86.061754	715.86	5.00	720.86
6	37.030537	-86.061615	698.69	5.00	703.69
7	37.028327	-86.060177	746.35	5.00	751.35
8	37.027282	-86.059609	759.74	5.00	764.74
9	37.026443	-86.059373	770.56	5.00	775.56
10	37.025389	-86.059212	775.11	5.00	780.11
11	37.023179	-86.059051	756.33	5.00	761.33

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.026463	-86.073705	717.62	5.00	722.62
2	37.025538	-86.073973	708.35	5.00	713.35
3	37.025401	-86.074231	713.07	5.00	718.07
4	37.025178	-86.075379	728.98	5.00	733.98
5	37.025016	-86.075593	731.68	5.00	736.68
6	37.021838	-86.075776	716.00	5.00	721.00
7	37.021546	-86.075915	713.07	5.00	718.07
8	37.021315	-86.076205	711.76	5.00	716.76
9	37.019585	-86.078565	723.39	5.00	728.39
10	37.019311	-86.078737	723.18	5.00	728.18
11	37.018925	-86.078629	723.54	5.00	728.54
12	37.018394	-86.078372	729.61	5.00	734.61
13	37.018069	-86.078383	734.32	5.00	739.32
14	37.016270	-86.078619	740.04	5.00	745.04
15	37.013794	-86.078919	751.71	5.00	756.71

Name: US 68
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023594	-86.096332	694.72	5.00	699.72
2	37.023928	-86.094637	705.81	5.00	710.81
3	37.025924	-86.086928	697.17	5.00	702.17
4	37.026129	-86.085550	693.78	5.00	698.78
5	37.026155	-86.083897	719.82	5.00	724.82
6	37.025924	-86.079563	683.42	5.00	688.42
7	37.025958	-86.078522	702.06	5.00	707.06
8	37.026069	-86.077278	702.09	5.00	707.09
9	37.026472	-86.074166	714.62	5.00	719.62
10	37.026480	-86.073104	722.48	5.00	727.48
11	37.026215	-86.071666	743.28	5.00	748.28
12	37.024450	-86.066248	757.36	5.00	762.36
13	37.024168	-86.065272	763.12	5.00	768.12
14	37.023277	-86.061624	758.60	5.00	763.60

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	37.011816	-85.904852	831.81	500.00	1331.81
OP 2	37.017204	-86.079478	748.66	16.00	764.66
OP 3	37.017934	-86.079105	741.07	16.00	757.07
OP 4	37.018429	-86.079137	732.59	16.00	748.59
OP 5	37.019238	-86.076162	754.49	16.00	770.49
OP 6	37.021619	-86.078035	730.64	16.00	746.64
OP 7	37.021341	-86.074773	726.67	16.00	742.67
OP 8	37.022463	-86.075336	730.76	16.00	746.76
OP 9	37.023341	-86.076441	738.99	16.00	754.99
OP 10	37.022887	-86.075283	736.07	16.00	752.07
OP 11	37.023247	-86.075309	738.25	16.00	754.25
OP 12	37.023620	-86.075256	740.18	16.00	756.18
OP 13	37.024039	-86.075250	739.85	16.00	755.85
OP 14	37.024339	-86.076133	737.52	16.00	753.52
OP 15	37.025056	-86.075910	736.24	16.00	752.24
OP 16	37.024799	-86.075283	730.42	16.00	746.42
OP 17	37.024617	-86.081093	728.43	16.00	744.43
OP 18	37.025944	-86.083539	734.68	16.00	750.68
OP 19	37.025486	-86.087613	723.39	16.00	739.39
OP 20	37.026150	-86.087705	722.89	16.00	738.89
OP 21	37.026182	-86.089292	725.74	16.00	741.74
OP 22	37.023394	-86.095282	707.34	16.00	723.34
OP 23	37.021972	-86.098391	714.85	16.00	730.85
OP 24	37.021444	-86.101577	705.11	16.00	721.11
OP 25	37.026463	-86.083888	733.18	16.00	749.18
OP 26	37.029667	-86.095347	690.41	16.00	706.41
OP 27	37.030082	-86.096074	682.02	16.00	698.02
OP 28	37.034426	-86.091887	671.63	16.00	687.63
OP 29	37.035363	-86.091074	679.91	16.00	695.91
OP 30	37.036243	-86.091157	689.61	16.00	705.61
OP 31	37.041639	-86.088140	676.29	16.00	692.29
OP 32	37.040684	-86.068592	715.10	16.00	731.10
OP 33	37.040675	-86.068088	723.96	16.00	739.96
OP 34	37.039866	-86.065105	744.37	16.00	760.37
OP 35	37.038834	-86.063099	743.98	16.00	759.98
OP 36	37.037841	-86.062718	739.60	16.00	755.60
OP 37	37.035772	-86.060948	755.60	16.00	771.60
OP 38	37.034907	-86.059901	762.31	16.00	778.31
OP 39	37.032646	-86.061210	746.33	16.00	762.33
OP 40	37.026518	-86.071273	750.22	16.00	766.22

Obstruction Components

Name: 10 Cumberland Hwy Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.031784	-86.052462	736.33
2	37.037283	-86.060004	749.30
3	37.040006	-86.063963	744.62
4	37.041582	-86.066699	716.24
5	37.043868	-86.071398	729.80
6	37.045273	-86.075260	729.56
7	37.046652	-86.080120	716.08

Name: 1 Planned Vegetation
Upper edge height: 6.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.039176	-86.067675	696.61
2	37.040186	-86.069617	688.26
3	37.040717	-86.071505	694.31
4	37.040905	-86.072321	706.22

Name: 2 Existing Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.039024	-86.067569	699.83
2	37.038065	-86.066765	700.87
3	37.037363	-86.065981	724.00
4	37.037054	-86.065252	708.72
5	37.036600	-86.065037	715.66
6	37.035624	-86.065241	724.62
7	37.034494	-86.065166	728.12

Name: 3 Planned Vegetation
Upper edge height: 6.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.026106	-86.078833	705.51
2	37.026328	-86.077052	713.03
3	37.026757	-86.074134	721.75

Name: 4 Planned Vegetation
Upper edge height: 6.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.025883	-86.085936	681.77
2	37.026003	-86.083876	726.38

Name: 5 Planned Vegetation
Upper edge height: 6.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.025900	-86.083189	728.41
2	37.025815	-86.082073	704.37
3	37.018619	-86.079992	728.38

Name: 6 Existing Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.033189	-86.078200	665.13
2	37.032435	-86.079294	663.40
3	37.032367	-86.080603	663.75
4	37.032692	-86.081569	717.25
5	37.032727	-86.082899	728.49
6	37.032196	-86.083049	699.07
7	37.031630	-86.081505	660.70
8	37.030054	-86.081333	666.17

Name: 7 Existing Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.020015	-86.088371	706.76
2	37.020923	-86.087212	705.87

Name: 8 Existing Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.020975	-86.091010	697.55
2	37.021455	-86.090130	703.02

Name: 9 Existing Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.033866	-86.078221	664.76
2	37.035356	-86.076719	670.87
3	37.035596	-86.075926	671.14
4	37.035339	-86.074617	670.06
5	37.034928	-86.073758	673.74
6	37.032016	-86.071205	683.84
7	37.031159	-86.067278	688.71
8	37.026894	-86.063716	716.50

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
401	SA tracking	SA tracking	0	0	-	-
402	SA tracking	SA tracking	0	0	-	-
403	SA tracking	SA tracking	1,091	0	-	-
404	SA tracking	SA tracking	0	0	-	-
405	SA tracking	SA tracking	0	0	-	-
406	SA tracking	SA tracking	0	0	-	-
407	SA tracking	SA tracking	0	0	-	-
408	SA tracking	SA tracking	0	0	-	-
409	SA tracking	SA tracking	0	0	-	-
410	SA tracking	SA tracking	0	0	-	-
411	SA tracking	SA tracking	0	0	-	-
412	SA tracking	SA tracking	0	0	-	-
413	SA tracking	SA tracking	0	0	-	-
414	SA tracking	SA tracking	0	0	-	-
415	SA tracking	SA tracking	0	0	-	-
416	SA tracking	SA tracking	0	0	-	-
417	SA tracking	SA tracking	0	0	-	-
418	SA tracking	SA tracking	0	0	-	-
419	SA tracking	SA tracking	0	0	-	-

Distinct glare per month

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

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
403 (green)	127	266	0	0	0	0	0	0	0	241	104	91
403 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

401 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

402 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

--

403 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	26	0
OP: OP 32	347	0
OP: OP 33	336	0
OP: OP 34	23	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0

OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	359	0
Route: Park City Bon Ayr Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0

403: Glasgow Municipal Airport Runway 26

No glare found

403: Glasgow Municipal Airport Runway 8

No glare found

403: OP 1

No glare found

403: OP 2

No glare found

403: OP 3

No glare found

403: OP 4

No glare found

403: OP 5

No glare found

403: OP 6

No glare found

403: OP 7

No glare found

403: OP 8

No glare found

403: OP 9

No glare found

403: OP 10

No glare found

403: OP 11

No glare found

403: OP 12

No glare found

403: OP 13

No glare found

403: OP 14

No glare found

403: OP 15

No glare found

403: OP 16

No glare found

403: OP 17

No glare found

403: OP 18

No glare found

403: OP 19

No glare found

403: OP 20

No glare found

403: OP 21

No glare found

403: OP 22

No glare found

403: OP 23

No glare found

403: OP 24

No glare found

403: OP 25

No glare found

403: OP 26

No glare found

403: OP 27

No glare found

403: OP 28

No glare found

403: OP 29

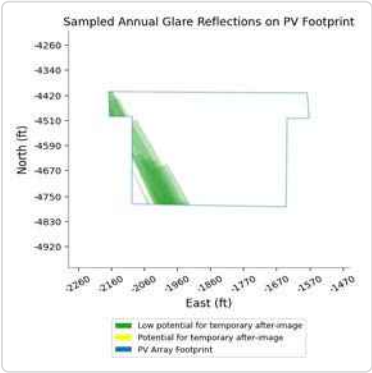
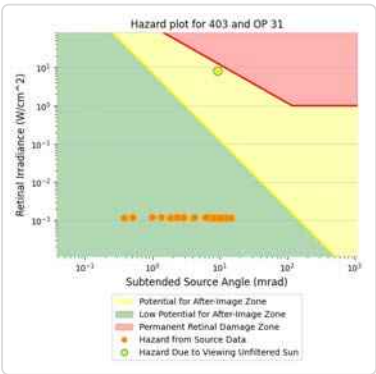
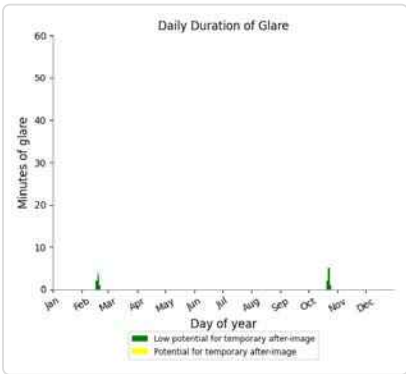
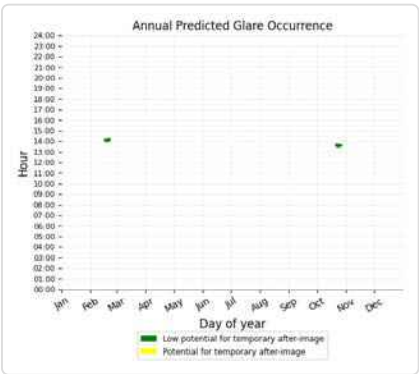
No glare found

403: OP 30

No glare found

403: OP 31

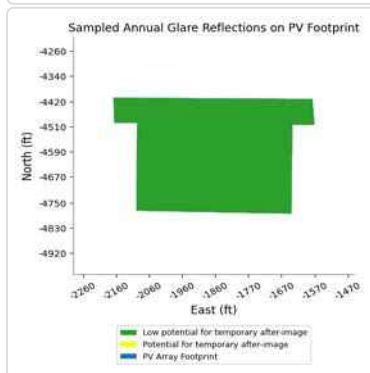
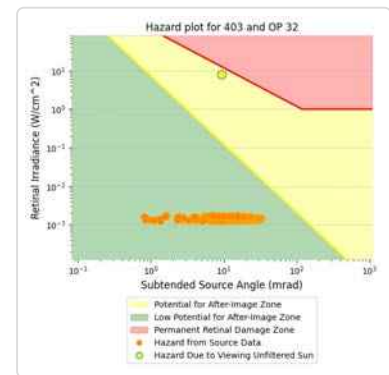
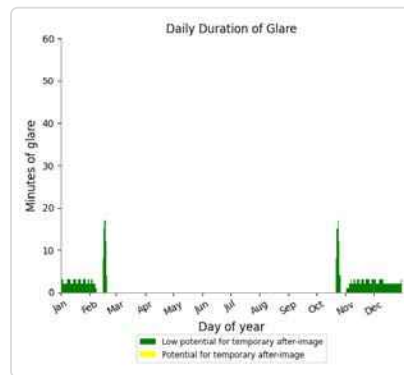
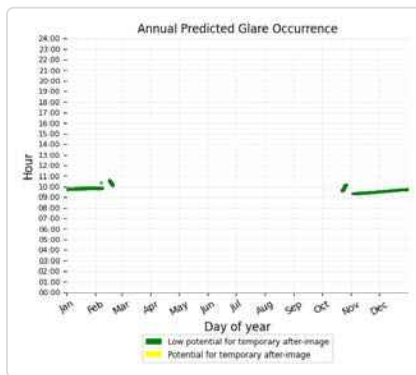
- PV array is expected to produce the following glare for this receptor:
- 26 minutes of "green" glare with low potential to cause temporary after-image.
 - 0 minutes of "yellow" glare with potential to cause temporary after-image.



403: OP 32

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

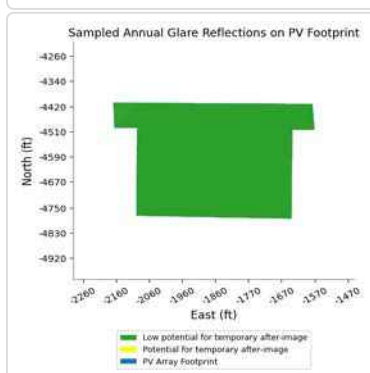
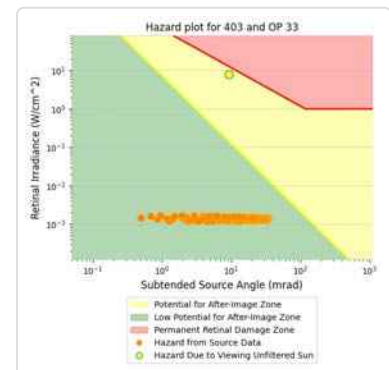
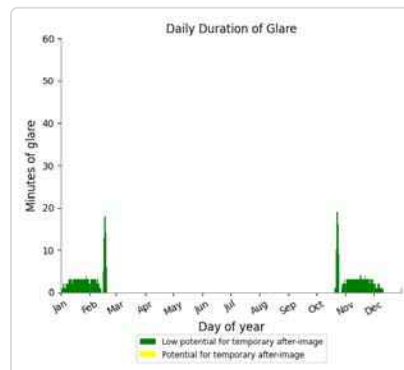
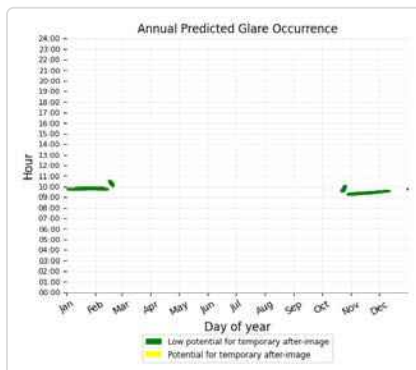
- 347 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



403: OP 33

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

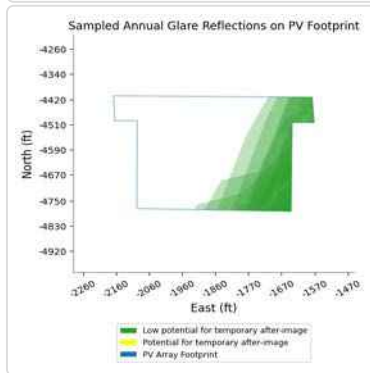
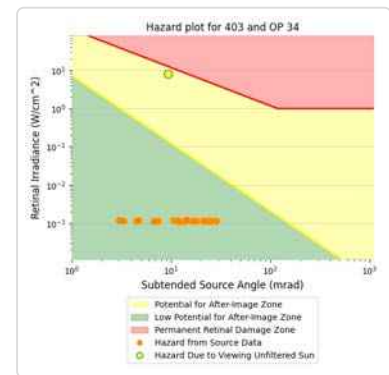
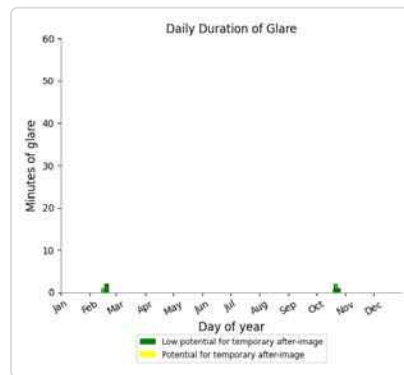
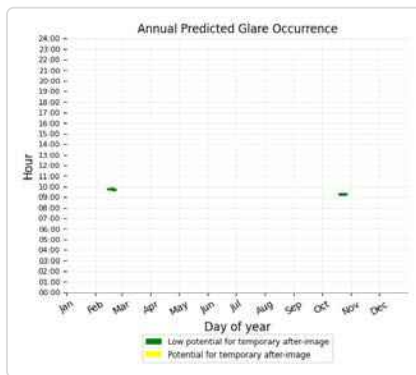
- 336 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



403: OP 34

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

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



403: OP 35

No glare found

403: OP 36

No glare found

403: OP 37

No glare found

403: OP 38

No glare found

403: OP 39

No glare found

403: OP 40

No glare found

403: Cumberland Highway Eastbound

No glare found

403: Cumberland Highway Westbound

No glare found

403: Fox Chase Street

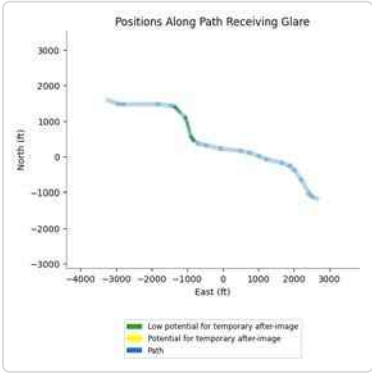
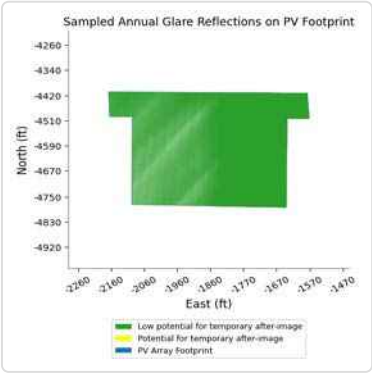
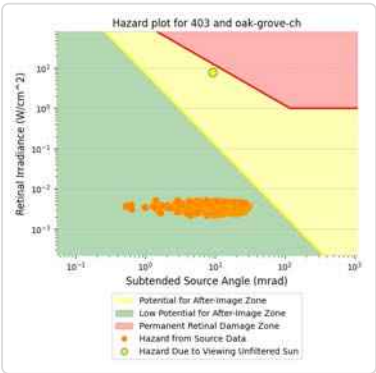
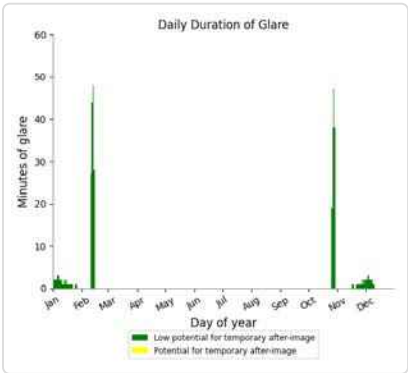
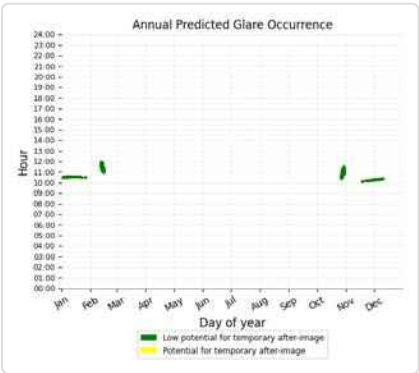
No glare found

403: Millstown Road

No glare found

403: Oak Grove Church Road

- PV array is expected to produce the following glare for this receptor:
- 359 minutes of "green" glare with low potential to cause temporary after-image.
 - 0 minutes of "yellow" glare with potential to cause temporary after-image.



403: Park City Bon Ay Road

No glare found

403: Rick Road

No glare found

403: US 68

No glare found

404 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

405 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

406 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

407 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

408 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

409 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

410 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

411 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

412 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

413 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

414 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

415 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

416 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

417 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

418 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

419 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

Assumptions

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

Wood Duck

Block 4 9ft vehicle

Created May 31, 2023
Updated Jun 01, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 91942.15739

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

Misc. Analysis Settings

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

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

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
401	SA tracking	SA tracking	39	0	-
402	SA tracking	SA tracking	0	0	-
403	SA tracking	SA tracking	1,081	0	-
404	SA tracking	SA tracking	0	0	-
405	SA tracking	SA tracking	0	0	-
406	SA tracking	SA tracking	0	0	-
407	SA tracking	SA tracking	0	0	-
408	SA tracking	SA tracking	0	0	-
409	SA tracking	SA tracking	0	0	-
410	SA tracking	SA tracking	0	0	-
411	SA tracking	SA tracking	0	0	-
412	SA tracking	SA tracking	0	0	-
413	SA tracking	SA tracking	0	0	-
414	SA tracking	SA tracking	0	0	-
415	SA tracking	SA tracking	0	0	-
416	SA tracking	SA tracking	0	0	-
417	SA tracking	SA tracking	0	0	-
418	SA tracking	SA tracking	0	0	-
419	SA tracking	SA tracking	0	0	-

Component Data

Name: 403
Footprint area: 3.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.027540	-86.076888	707.90	5.00	712.90
2	37.027540	-86.076657	705.37	5.00	710.37
3	37.026761	-86.076662	716.41	5.00	721.41
4	37.026735	-86.075090	713.29	5.00	718.29
5	37.027523	-86.075080	723.57	5.00	728.57
6	37.027523	-86.074854	726.67	5.00	731.67
7	37.027750	-86.074876	721.48	5.00	726.48
8	37.027763	-86.076898	692.58	5.00	697.58

Name: 404
Footprint area: 12.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.024491	-86.082188	724.09	5.00	729.09
2	37.024500	-86.083201	727.78	5.00	732.78
3	37.024153	-86.083218	723.82	5.00	728.82
4	37.024170	-86.084628	703.83	5.00	708.83
5	37.023360	-86.084618	697.16	5.00	702.16
6	37.023343	-86.084274	703.76	5.00	708.76
7	37.022667	-86.084301	697.48	5.00	702.48
8	37.022380	-86.083920	697.88	5.00	702.88
9	37.022260	-86.083684	698.84	5.00	703.84
10	37.022260	-86.081571	718.20	5.00	723.20
11	37.023373	-86.081560	723.66	5.00	728.66
12	37.023382	-86.082204	722.24	5.00	727.24

Name: 405 Footprint area: 8.4 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad					
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037069	-86.074402	680.06	5.00	685.06
2	37.037822	-86.074402	678.34	5.00	683.34
3	37.037805	-86.074037	686.80	5.00	691.80
4	37.038139	-86.074027	678.88	5.00	683.88
5	37.038088	-86.071044	739.88	5.00	744.88
6	37.037035	-86.071065	727.65	5.00	732.65



Name: 406 Footprint area: 19.6 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad					
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037056	-86.074393	680.20	5.00	685.20
2	37.036362	-86.074468	678.60	5.00	683.60
3	37.035788	-86.074012	673.62	5.00	678.62
4	37.035728	-86.067966	723.65	5.00	728.65
5	37.036979	-86.067956	725.96	5.00	730.96



Name: 407 Footprint area: 14.2 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad	Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
		deg	deg	ft	ft	ft
	1	37.035780	-86.073444	679.05	5.00	684.05
	2	37.035095	-86.073460	674.90	5.00	679.90
	3	37.035090	-86.073186	675.74	5.00	680.74
	4	37.034666	-86.073202	672.25	5.00	677.25
	5	37.034628	-86.067945	726.99	5.00	731.99
	6	37.035724	-86.067956	723.79	5.00	728.79
	7	37.035758	-86.070836	709.21	5.00	714.21

Name: 408 Footprint area: 12.3 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad	Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
		deg	deg	ft	ft	ft
	1	37.034658	-86.072140	685.11	5.00	690.11
	2	37.033891	-86.072119	679.21	5.00	684.21
	3	37.033879	-86.071121	701.68	5.00	706.68
	4	37.033600	-86.071121	695.79	5.00	700.79
	5	37.033570	-86.069672	734.38	5.00	739.38
	6	37.032808	-86.069635	703.54	5.00	708.54
	7	37.032825	-86.068460	719.32	5.00	724.32
	8	37.033596	-86.068476	743.19	5.00	748.19
	9	37.033617	-86.067773	735.00	5.00	740.00
	10	37.034636	-86.067747	727.79	5.00	732.79

Name: 409
Footprint area: 21.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.034906	-86.076646	668.00	5.00	673.00
2	37.034919	-86.074726	672.09	5.00	677.09
3	37.034131	-86.074731	710.06	5.00	715.06
4	37.034135	-86.073894	674.52	5.00	679.52
5	37.033292	-86.073889	708.99	5.00	713.99
6	37.033296	-86.075171	719.87	5.00	724.87
7	37.031832	-86.075123	696.56	5.00	701.56
8	37.031844	-86.078926	670.39	5.00	675.39
9	37.032294	-86.078931	667.08	5.00	672.08
10	37.032298	-86.078352	669.56	5.00	674.56
11	37.032692	-86.078320	668.53	5.00	673.53
12	37.032697	-86.077842	678.14	5.00	683.14
13	37.033013	-86.077853	673.32	5.00	678.32
14	37.033013	-86.077724	677.75	5.00	682.75
15	37.033759	-86.077703	663.54	5.00	668.54
16	37.033763	-86.077322	673.32	5.00	678.32
17	37.034123	-86.077311	664.11	5.00	669.11
18	37.034140	-86.076710	691.41	5.00	696.41

Name: 410
Footprint area: 13.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.031837	-86.078937	670.20	5.00	675.20
2	37.031572	-86.078943	674.35	5.00	679.35
3	37.031572	-86.080064	662.26	5.00	667.26
4	37.031191	-86.080085	664.62	5.00	669.62
5	37.031182	-86.080381	662.42	5.00	667.42
6	37.030737	-86.080375	667.36	5.00	672.36
7	37.030762	-86.074812	711.09	5.00	716.09
8	37.031829	-86.074989	699.45	5.00	704.45

Name: 411
Footprint area: 20.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.030735	-86.080369	667.57	5.00	672.57
2	37.030429	-86.080364	670.20	5.00	675.20
3	37.030433	-86.080656	666.72	5.00	671.72
4	37.029305	-86.080704	665.26	5.00	670.26
5	37.029305	-86.074661	720.07	5.00	725.07
6	37.030769	-86.074811	710.79	5.00	715.79

Name: 412
Footprint area: 20.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.029309	-86.080310	665.54	5.00	670.54
2	37.028281	-86.080310	668.29	5.00	673.29
3	37.028277	-86.080042	674.15	5.00	679.15
4	37.027780	-86.080053	669.00	5.00	674.00
5	37.027763	-86.074892	721.17	5.00	726.17
6	37.027845	-86.074903	718.54	5.00	723.54
7	37.027853	-86.074356	727.78	5.00	732.78
8	37.029318	-86.074661	720.38	5.00	725.38

Name: 413
Footprint area: 5.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020958	-86.086926	702.84	5.00	707.84
2	37.020915	-86.083708	715.39	5.00	720.39
3	37.020247	-86.083708	717.62	5.00	722.62
4	37.020255	-86.086958	702.97	5.00	707.97

Name: 414
Footprint area: 22.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020255	-86.086958	702.97	5.00	707.97
2	37.019827	-86.087028	700.65	5.00	705.65
3	37.019840	-86.087763	702.09	5.00	707.09
4	37.018786	-86.087795	696.64	5.00	701.64
5	37.018786	-86.081036	733.92	5.00	738.92
6	37.019767	-86.081020	717.32	5.00	722.32
7	37.019754	-86.081395	719.12	5.00	724.12
8	37.020230	-86.081476	711.14	5.00	716.14

Name: 415
Footprint area: 5.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018765	-86.089751	690.94	5.00	695.94
2	37.018756	-86.087809	696.84	5.00	701.84
3	37.017600	-86.087820	701.60	5.00	706.60
4	37.017617	-86.089816	712.64	5.00	717.64

Name: 416
Footprint area: 14.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017523	-86.085907	706.01	5.00	711.01
2	37.017531	-86.081658	747.69	5.00	752.69
3	37.017805	-86.081642	746.17	5.00	751.17
4	37.017797	-86.081031	738.70	5.00	743.70
5	37.018790	-86.081036	733.92	5.00	738.92
6	37.018786	-86.085934	709.11	5.00	714.11

Name: 417
Footprint area: 8.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.038088	-86.071044	739.88	5.00	744.88
2	37.038071	-86.067965	730.80	5.00	735.80
3	37.036992	-86.067965	726.04	5.00	731.04
4	37.037026	-86.071098	727.99	5.00	732.99

Name: 418
Footprint area: 9.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.018773	-86.087809	696.77	5.00	701.77
2	37.018790	-86.085932	709.11	5.00	714.11
3	37.016743	-86.085900	713.75	5.00	718.75
4	37.016726	-86.087831	703.12	5.00	708.12

Name: 419
Footprint area: 12.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.022268	-86.083740	698.20	5.00	703.20
2	37.022277	-86.081143	720.19	5.00	725.19
3	37.020881	-86.081143	724.05	5.00	729.05
4	37.020889	-86.081487	719.60	5.00	724.60
5	37.020247	-86.081487	711.61	5.00	716.61
6	37.020247	-86.083686	717.64	5.00	722.64

2-Mile Flight Path Receptor(s)

Name: Glasgow Municipal Airport Runway 26
Description:
Threshold height : 50 ft
Direction: 252.2 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.033844	-85.946199	714.75	50.00	764.75
2-mile point	37.042702	-85.911682	732.56	585.62	1318.18

Name: Glasgow Municipal Airport Runway 8
Description:
Threshold height : 50 ft
Direction: 70.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.029484	-85.962314	707.66	50.00	757.66
2-mile point	37.019838	-85.996495	701.55	609.54	1311.09

Route Receptor(s)

Name: Cumberland Highway Eastbound
Route type Two-way
View angle: 50.0 deg



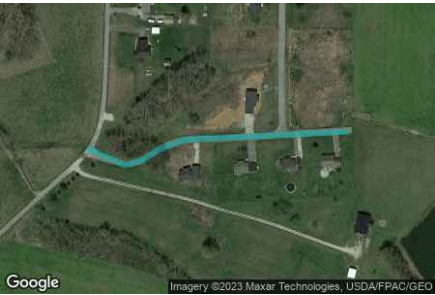
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.047351	-86.082288	682.22	9.00	691.22
2	37.045947	-86.076773	729.39	9.00	738.39
3	37.045108	-86.074220	728.45	9.00	737.45
4	37.043806	-86.070808	723.38	9.00	732.38
5	37.042462	-86.067922	721.94	9.00	730.94
6	37.041040	-86.065293	737.83	9.00	746.83
7	37.039944	-86.063480	743.87	9.00	752.87
8	37.037923	-86.060541	739.70	9.00	748.70
9	37.033281	-86.054082	729.63	9.00	738.63
10	37.032467	-86.052966	733.85	9.00	742.85

Name: Cumberland Highway Westbound
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.032613	-86.052837	734.71	9.00	743.71
2	37.035465	-86.056850	728.82	9.00	737.82
3	37.038034	-86.060380	739.70	9.00	748.70
4	37.040072	-86.063341	745.97	9.00	754.97
5	37.041186	-86.065165	737.69	9.00	746.69
6	37.042590	-86.067836	722.10	9.00	731.10
7	37.043995	-86.070808	723.59	9.00	732.59
8	37.045313	-86.074263	730.35	9.00	739.35
9	37.046118	-86.076795	729.41	9.00	738.41
10	37.047548	-86.082245	680.80	9.00	689.80

Name: Fox Chase Street
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.021731	-86.073061	747.23	9.00	756.23
2	37.021662	-86.074847	726.45	9.00	735.45
3	37.021581	-86.075126	723.11	9.00	732.11
4	37.021469	-86.075357	722.91	9.00	731.91
5	37.021435	-86.075523	722.84	9.00	731.84
6	37.021576	-86.075910	712.96	9.00	721.96

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.043409	-86.084740	708.63	9.00	717.63
2	37.043135	-86.085094	707.52	9.00	716.52
3	37.042219	-86.086832	686.36	9.00	695.36
4	37.041097	-86.088055	667.78	9.00	676.78
5	37.040361	-86.088345	673.54	9.00	682.54
6	37.039881	-86.088892	679.82	9.00	688.82
7	37.039427	-86.089289	685.76	9.00	694.76
8	37.038194	-86.089944	694.75	9.00	703.75
9	37.036721	-86.091210	681.97	9.00	690.97
10	37.033244	-86.092841	644.88	9.00	653.88
11	37.032636	-86.093484	643.15	9.00	652.15
12	37.032027	-86.094396	649.25	9.00	658.25
13	37.031771	-86.094632	660.63	9.00	669.63
14	37.028619	-86.096488	680.22	9.00	689.22
15	37.028096	-86.096746	677.04	9.00	686.04
16	37.027805	-86.096681	680.45	9.00	689.45
17	37.027616	-86.096027	684.75	9.00	693.75
18	37.027411	-86.095823	686.29	9.00	695.29
19	37.027145	-86.095802	689.12	9.00	698.12
20	37.023788	-86.095480	698.10	9.00	707.10

Name: Oak Grove Church Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.044243	-86.080507	731.01	9.00	740.01
2	37.043952	-86.079509	727.41	9.00	736.41
3	37.043935	-86.079026	726.82	9.00	735.82
4	37.043943	-86.075700	731.92	9.00	740.92
5	37.043823	-86.074392	730.14	9.00	739.14
6	37.043729	-86.074070	730.55	9.00	739.55
7	37.042907	-86.073072	730.10	9.00	739.10
8	37.041408	-86.072514	718.76	9.00	727.76
9	37.041160	-86.072278	714.21	9.00	723.21
10	37.040912	-86.071838	702.66	9.00	711.66
11	37.040766	-86.071076	694.56	9.00	703.56
12	37.040509	-86.069682	689.99	9.00	698.99
13	37.040338	-86.067750	716.39	9.00	725.39
14	37.040192	-86.066892	721.40	9.00	730.40
15	37.039918	-86.065959	732.39	9.00	741.39
16	37.039687	-86.065272	737.21	9.00	746.21
17	37.039413	-86.063770	740.06	9.00	749.06
18	37.039165	-86.062997	741.33	9.00	750.33
19	37.038848	-86.062558	742.07	9.00	751.07
20	37.038103	-86.061914	742.95	9.00	751.95
21	37.037049	-86.061141	747.61	9.00	756.61
22	37.036844	-86.060841	752.17	9.00	761.17
23	37.036672	-86.060369	754.03	9.00	763.03

Name: Park City Bon Ayr Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.037663	-86.060177	744.75	9.00	753.75
2	37.034853	-86.060628	744.73	9.00	753.73
3	37.033980	-86.060928	742.73	9.00	751.73
4	37.032267	-86.061647	739.44	9.00	748.44
5	37.031530	-86.061754	715.86	9.00	724.86
6	37.030537	-86.061615	698.69	9.00	707.69
7	37.028327	-86.060177	746.35	9.00	755.35
8	37.027282	-86.059609	759.74	9.00	768.74
9	37.026443	-86.059373	770.56	9.00	779.56
10	37.025389	-86.059212	775.11	9.00	784.11
11	37.023179	-86.059051	756.33	9.00	765.33

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.026463	-86.073705	717.62	9.00	726.62
2	37.025538	-86.073973	708.35	9.00	717.35
3	37.025401	-86.074231	713.07	9.00	722.07
4	37.025178	-86.075379	728.98	9.00	737.98
5	37.025016	-86.075593	731.68	9.00	740.68
6	37.021838	-86.075776	716.00	9.00	725.00
7	37.021546	-86.075915	713.07	9.00	722.07
8	37.021315	-86.076205	711.76	9.00	720.76
9	37.019585	-86.078565	723.39	9.00	732.39
10	37.019311	-86.078737	723.18	9.00	732.18
11	37.018925	-86.078629	723.54	9.00	732.54
12	37.018394	-86.078372	729.61	9.00	738.61
13	37.018069	-86.078383	734.32	9.00	743.32
14	37.016270	-86.078619	740.04	9.00	749.04
15	37.013794	-86.078919	751.71	9.00	760.71

Name: US 68
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023594	-86.096332	694.72	9.00	703.72
2	37.023928	-86.094637	705.81	9.00	714.81
3	37.025924	-86.086928	697.17	9.00	706.17
4	37.026129	-86.085550	693.78	9.00	702.78
5	37.026155	-86.083897	719.82	9.00	728.82
6	37.025924	-86.079563	683.42	9.00	692.42
7	37.025958	-86.078522	702.06	9.00	711.06
8	37.026069	-86.077278	702.09	9.00	711.09
9	37.026472	-86.074166	714.62	9.00	723.62
10	37.026480	-86.073104	722.48	9.00	731.48
11	37.026215	-86.071666	743.28	9.00	752.28
12	37.024450	-86.066248	757.36	9.00	766.36
13	37.024168	-86.065272	763.12	9.00	772.12
14	37.023277	-86.061624	758.60	9.00	767.60

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	37.011816	-85.904852	831.81	500.00	1331.81
OP 2	37.017204	-86.079478	748.66	16.00	764.66
OP 3	37.017934	-86.079105	741.07	16.00	757.07
OP 4	37.018429	-86.079137	732.59	16.00	748.59
OP 5	37.019238	-86.076162	754.49	16.00	770.49
OP 6	37.021619	-86.078035	730.64	16.00	746.64
OP 7	37.021341	-86.074773	726.67	16.00	742.67
OP 8	37.022463	-86.075336	730.76	16.00	746.76
OP 9	37.023341	-86.076441	738.99	16.00	754.99
OP 10	37.022887	-86.075283	736.07	16.00	752.07
OP 11	37.023247	-86.075309	738.25	16.00	754.25
OP 12	37.023620	-86.075256	740.18	16.00	756.18
OP 13	37.024039	-86.075250	739.85	16.00	755.85
OP 14	37.024339	-86.076133	737.52	16.00	753.52
OP 15	37.025056	-86.075910	736.24	16.00	752.24
OP 16	37.024799	-86.075283	730.42	16.00	746.42
OP 17	37.024617	-86.081093	728.43	16.00	744.43
OP 18	37.025944	-86.083539	734.68	16.00	750.68
OP 19	37.025486	-86.087613	723.39	16.00	739.39
OP 20	37.026150	-86.087705	722.89	16.00	738.89
OP 21	37.026182	-86.089292	725.74	16.00	741.74
OP 22	37.023394	-86.095282	707.34	16.00	723.34
OP 23	37.021972	-86.098391	714.85	16.00	730.85
OP 24	37.021444	-86.101577	705.11	16.00	721.11
OP 25	37.026463	-86.083888	733.18	16.00	749.18
OP 26	37.029667	-86.095347	690.41	16.00	706.41
OP 27	37.030082	-86.096074	682.02	16.00	698.02
OP 28	37.034426	-86.091887	671.63	16.00	687.63
OP 29	37.035363	-86.091074	679.91	16.00	695.91
OP 30	37.036243	-86.091157	689.61	16.00	705.61
OP 31	37.041639	-86.088140	676.29	16.00	692.29
OP 32	37.040684	-86.068592	715.10	16.00	731.10
OP 33	37.040675	-86.068088	723.96	16.00	739.96
OP 34	37.039866	-86.065105	744.37	16.00	760.37
OP 35	37.038834	-86.063099	743.98	16.00	759.98
OP 36	37.037841	-86.062718	739.60	16.00	755.60
OP 37	37.035772	-86.060948	755.60	16.00	771.60
OP 38	37.034907	-86.059901	762.31	16.00	778.31
OP 39	37.032646	-86.061210	746.33	16.00	762.33
OP 40	37.026518	-86.071273	750.22	16.00	766.22

Obstruction Components

Name: 10 Cumberland Hwy Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.031784	-86.052462	736.33
2	37.037283	-86.060004	749.30
3	37.040006	-86.063963	744.62
4	37.041582	-86.066699	716.24
5	37.043868	-86.071398	729.80
6	37.045273	-86.075260	729.56
7	37.046652	-86.080120	716.08

Name: 1 Planned Vegetation
Upper edge height: 6.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.039176	-86.067675	696.61
2	37.040186	-86.069617	688.26
3	37.040717	-86.071505	694.31
4	37.040905	-86.072321	706.22

Name: 2 Existing Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.039024	-86.067569	699.83
2	37.038065	-86.066765	700.87
3	37.037363	-86.065981	724.00
4	37.037054	-86.065252	708.72
5	37.036600	-86.065037	715.66
6	37.035624	-86.065241	724.62
7	37.034494	-86.065166	728.12

Name: 3 Planned Vegetation
Upper edge height: 6.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.026106	-86.078833	705.51
2	37.026328	-86.077052	713.03
3	37.026757	-86.074134	721.75

Name: 4 Planned Vegetation
Upper edge height: 6.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.025883	-86.085936	681.77
2	37.026003	-86.083876	726.38

Name: 5 Planned Vegetation
Upper edge height: 6.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.025900	-86.083189	728.41
2	37.025815	-86.082073	704.37
3	37.018619	-86.079992	728.38

Name: 6 Existing Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.033189	-86.078200	665.13
2	37.032435	-86.079294	663.40
3	37.032367	-86.080603	663.75
4	37.032692	-86.081569	717.25
5	37.032727	-86.082899	728.49
6	37.032196	-86.083049	699.07
7	37.031630	-86.081505	660.70
8	37.030054	-86.081333	666.17

Name: 7 Existing Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.020015	-86.088371	706.76
2	37.020923	-86.087212	705.87

Name: 8 Existing Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.020975	-86.091010	697.55
2	37.021455	-86.090130	703.02

Name: 9 Existing Trees
Upper edge height: 30.0 ft



Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	37.033866	-86.078221	664.76
2	37.035356	-86.076719	670.87
3	37.035596	-86.075926	671.14
4	37.035339	-86.074617	670.06
5	37.034928	-86.073758	673.74
6	37.032016	-86.071205	683.84
7	37.031159	-86.067278	688.71
8	37.026894	-86.063716	716.50

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
401	SA tracking	SA tracking	39	0	-	-
402	SA tracking	SA tracking	0	0	-	-
403	SA tracking	SA tracking	1,081	0	-	-
404	SA tracking	SA tracking	0	0	-	-
405	SA tracking	SA tracking	0	0	-	-
406	SA tracking	SA tracking	0	0	-	-
407	SA tracking	SA tracking	0	0	-	-
408	SA tracking	SA tracking	0	0	-	-
409	SA tracking	SA tracking	0	0	-	-
410	SA tracking	SA tracking	0	0	-	-
411	SA tracking	SA tracking	0	0	-	-
412	SA tracking	SA tracking	0	0	-	-
413	SA tracking	SA tracking	0	0	-	-
414	SA tracking	SA tracking	0	0	-	-
415	SA tracking	SA tracking	0	0	-	-
416	SA tracking	SA tracking	0	0	-	-
417	SA tracking	SA tracking	0	0	-	-
418	SA tracking	SA tracking	0	0	-	-
419	SA tracking	SA tracking	0	0	-	-

Distinct glare per month

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

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
401 (green)	0	0	0	0	0	0	0	0	0	0	0	39
401 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
403 (green)	123	264	0	0	0	0	0	0	0	245	96	91
403 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

401 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0

OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	39	0
Route: Park City Bon Ayr Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0

401: Glasgow Municipal Airport Runway 26

No glare found

401: Glasgow Municipal Airport Runway 8

No glare found

401: OP 1

No glare found

401: OP 2

No glare found

401: OP 3

No glare found

401: OP 4

No glare found

401: OP 5

No glare found

401: OP 6

No glare found

401: OP 7

No glare found

401: OP 8

No glare found

401: OP 9

No glare found

401: OP 10

No glare found

401: OP 11

No glare found

401: OP 12

No glare found

401: OP 13

No glare found

401: OP 14

No glare found

401: OP 15

No glare found

401: OP 16

No glare found

401: OP 17

No glare found

401: OP 18

No glare found

401: OP 19

No glare found

401: OP 20

No glare found

401: OP 21

No glare found

401: OP 22

No glare found

401: OP 23

No glare found

401: OP 24

No glare found

401: OP 25

No glare found

401: OP 26

No glare found

401: OP 27

No glare found

401: OP 28

No glare found

401: OP 29

No glare found

401: OP 30

No glare found

401: OP 31

No glare found

401: OP 32

No glare found

401: OP 33

No glare found

401: OP 34

No glare found

401: OP 35

No glare found

401: OP 36

No glare found

401: OP 37

No glare found

401: OP 38

No glare found

401: OP 39

No glare found

401: OP 40

No glare found

401: Cumberland Highway Eastbound

No glare found

401: Cumberland Highway Westbound

No glare found

401: Fox Chase Street

No glare found

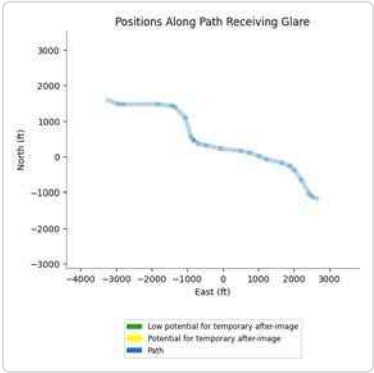
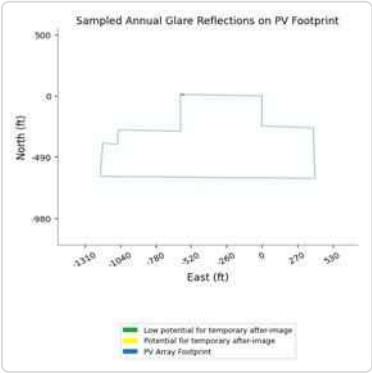
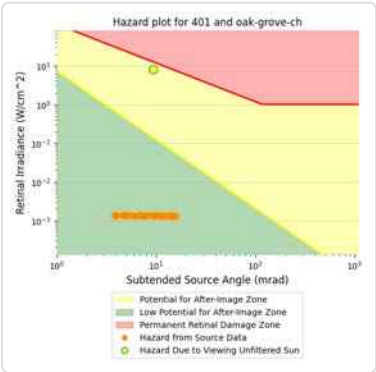
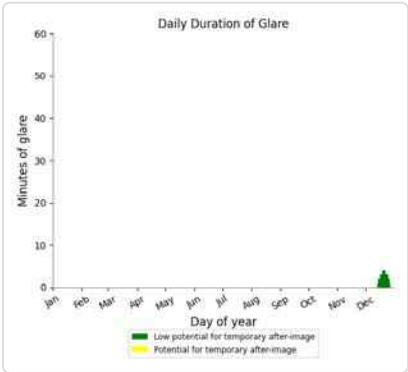
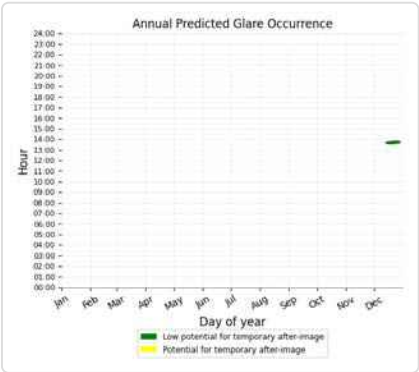
401: Millstown Road

No glare found

401: Oak Grove Church Road

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

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



401: Park City Bon Ayrr Road

No glare found

401: Rick Road

No glare found

401: US 68

No glare found

402 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

--

403 low potential for temporary after-image

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	23	0
OP: OP 32	346	0
OP: OP 33	316	0
OP: OP 34	28	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0

OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	368	0
Route: Park City Bon Ayr Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0

403: Glasgow Municipal Airport Runway 26

No glare found

403: Glasgow Municipal Airport Runway 8

No glare found

403: OP 1

No glare found

403: OP 2

No glare found

403: OP 3

No glare found

403: OP 4

No glare found

403: OP 5

No glare found

403: OP 6

No glare found

403: OP 7

No glare found

403: OP 8

No glare found

403: OP 9

No glare found

403: OP 10

No glare found

403: OP 11

No glare found

403: OP 12

No glare found

403: OP 13

No glare found

403: OP 14

No glare found

403: OP 15

No glare found

403: OP 16

No glare found

403: OP 17

No glare found

403: OP 18

No glare found

403: OP 19

No glare found

403: OP 20

No glare found

403: OP 21

No glare found

403: OP 22

No glare found

403: OP 23

No glare found

403: OP 24

No glare found

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No glare found

403: OP 26

No glare found

403: OP 27

No glare found

403: OP 28

No glare found

403: OP 29

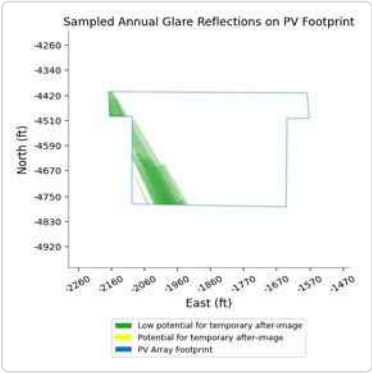
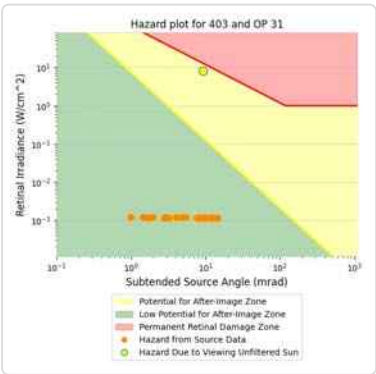
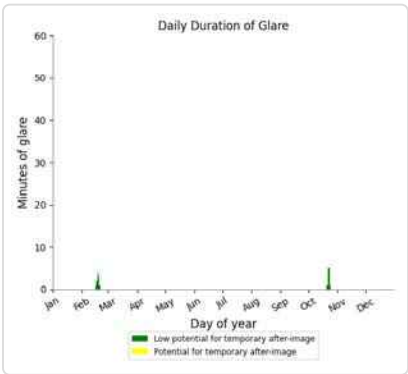
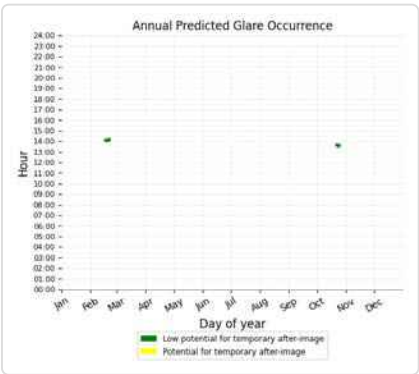
No glare found

403: OP 30

No glare found

403: OP 31

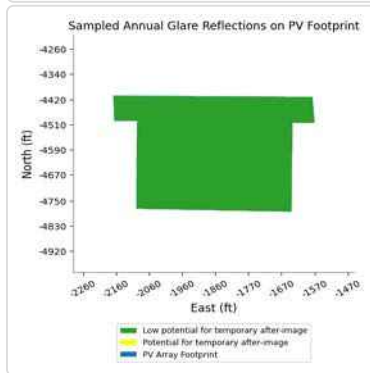
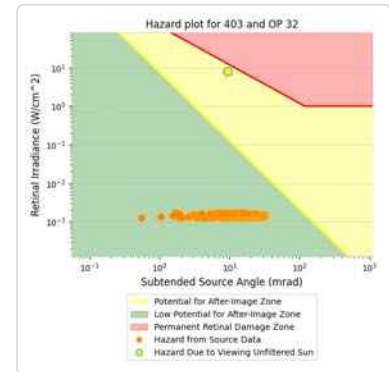
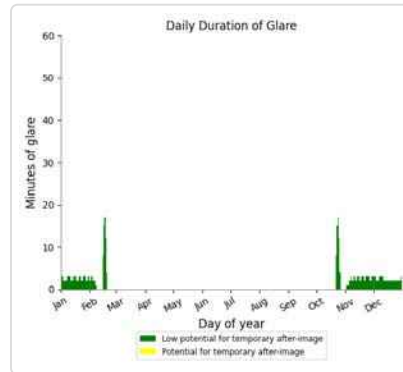
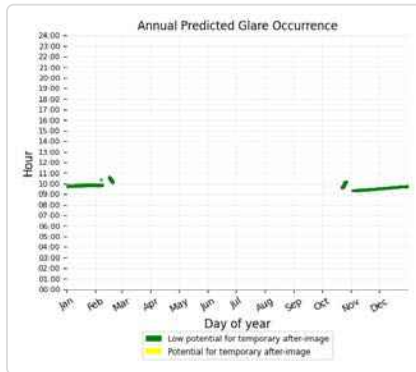
- PV array is expected to produce the following glare for this receptor:
- 23 minutes of "green" glare with low potential to cause temporary after-image.
 - 0 minutes of "yellow" glare with potential to cause temporary after-image.



403: OP 32

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

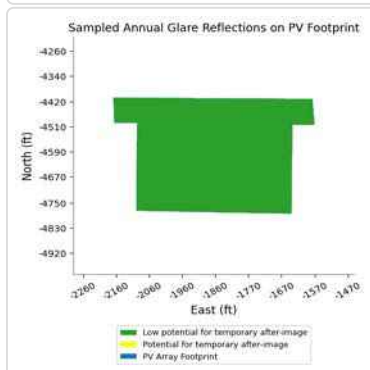
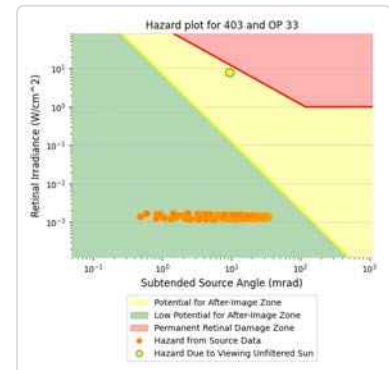
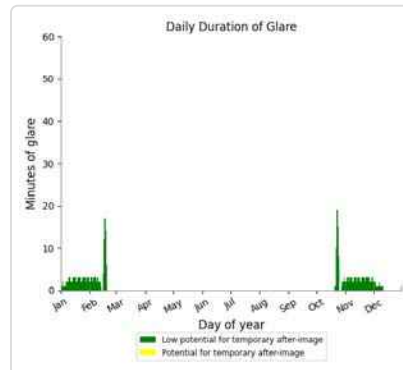
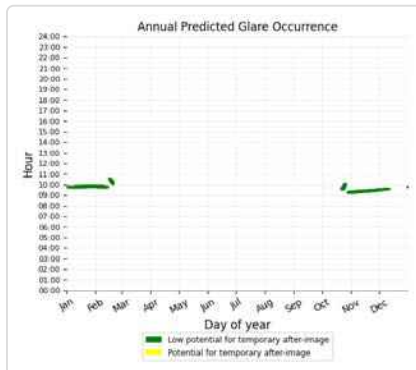
- 346 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



403: OP 33

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

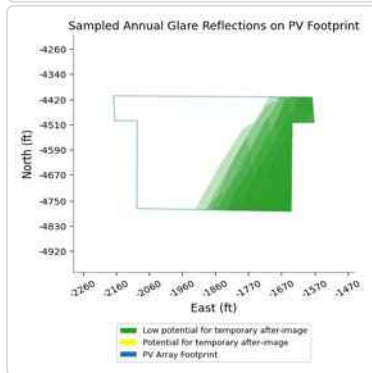
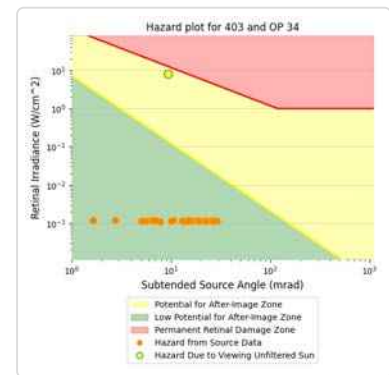
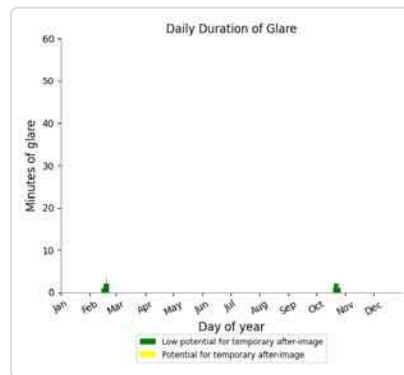
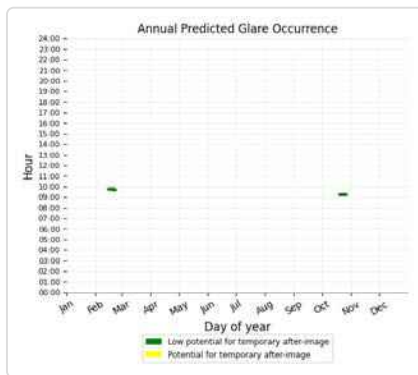
- 316 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



403: OP 34

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

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



403: OP 35

No glare found

403: OP 36

No glare found

403: OP 37

No glare found

403: OP 38

No glare found

403: OP 39

No glare found

403: OP 40

No glare found

403: Cumberland Highway Eastbound

No glare found

403: Cumberland Highway Westbound

No glare found

403: Fox Chase Street

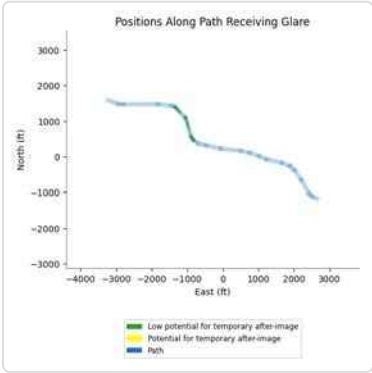
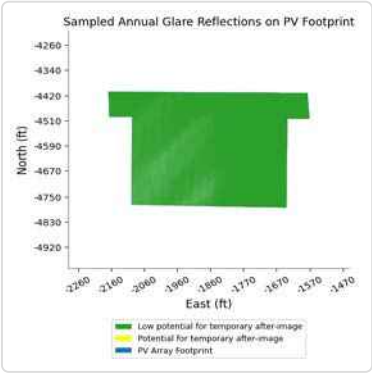
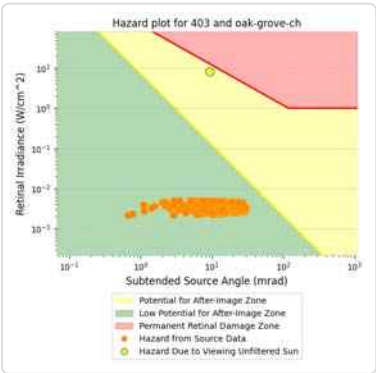
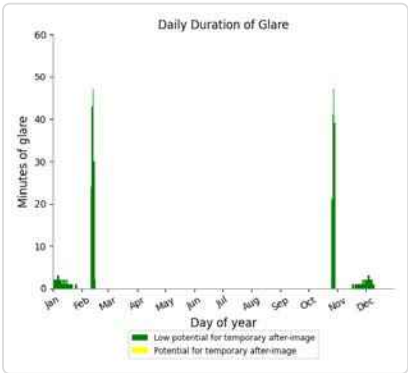
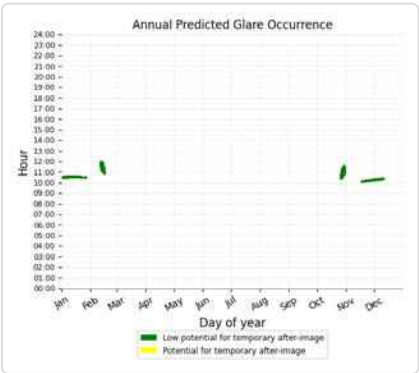
No glare found

403: Millstown Road

No glare found

403: Oak Grove Church Road

- PV array is expected to produce the following glare for this receptor:
- 368 minutes of "green" glare with low potential to cause temporary after-image.
 - 0 minutes of "yellow" glare with potential to cause temporary after-image.



403: Park City Bon AyR Road

No glare found

403: Rick Road

No glare found

403: US 68

No glare found

404 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

405 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

406 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

407 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

408 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

409 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

410 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

411 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

412 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

413 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

414 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

415 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

416 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

417 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

418 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

419 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Cumberland Highway Eastbound	0	0
Route: Cumberland Highway Westbound	0	0
Route: Fox Chase Street	0	0
Route: Millstown Road	0	0
Route: Oak Grove Church Road	0	0
Route: Park City Bon Ayr Road	0	0

Route: Rick Road	0	0
Route: US 68	0	0

No glare found

Assumptions

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

Wood Duck

Block 5 5ft vehicle

Created Apr 27, 2023
Updated Apr 28, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 89292.15739

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

Misc. Analysis Settings

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

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
501	SA tracking	SA tracking	0	0	-
502	SA tracking	SA tracking	0	0	-
503	SA tracking	SA tracking	0	0	-
504	SA tracking	SA tracking	0	0	-
505	SA tracking	SA tracking	0	0	-
506	SA tracking	SA tracking	0	0	-
507	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 57.3 acres

Name: 501
Footprint area: 3.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.020242	-86.090376	706.88	5.00	711.88
2	37.020274	-86.089429	704.53	5.00	709.53
3	37.020473	-86.089311	704.15	5.00	709.15
4	37.020503	-86.088995	702.69	5.00	707.69
5	37.019398	-86.088944	694.16	5.00	699.16
6	37.019154	-86.089236	692.80	5.00	697.80
7	37.019188	-86.090330	704.68	5.00	709.68



Name: 502
Footprint area: 8.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017659	-86.089990	711.23	5.00	716.23
2	37.016479	-86.089990	713.20	5.00	718.20
3	37.016485	-86.092774	718.13	5.00	723.13
4	37.017685	-86.092731	702.49	5.00	707.49



Name: 503
Footprint area: 13.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017689	-86.092739	702.42	5.00	707.42
2	37.017698	-86.093364	705.95	5.00	710.95
3	37.017616	-86.093560	704.90	5.00	709.90
4	37.017616	-86.093809	704.24	5.00	709.24
5	37.017970	-86.093798	700.48	5.00	705.48
6	37.017948	-86.097449	682.28	5.00	687.28
7	37.017143	-86.097449	688.56	5.00	693.56
8	37.017134	-86.097181	690.64	5.00	695.64
9	37.016783	-86.097175	690.42	5.00	695.42
10	37.016779	-86.093683	709.82	5.00	714.82
11	37.016303	-86.093699	711.57	5.00	716.57
12	37.016475	-86.092787	717.78	5.00	722.78

Name: 504
Footprint area: 9.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017965	-86.097449	681.89	5.00	686.89
2	37.017961	-86.097706	681.15	5.00	686.15
3	37.019087	-86.097706	681.15	5.00	686.15
4	37.019109	-86.094236	687.85	5.00	692.85
5	37.018616	-86.094123	691.77	5.00	696.77
6	37.017974	-86.094112	700.93	5.00	705.93

Name: 505
Footprint area: 5.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014783	-86.089145	722.18	5.00	727.18
2	37.014800	-86.090395	715.70	5.00	720.70
3	37.014650	-86.090641	715.02	5.00	720.02
4	37.014492	-86.090631	714.89	5.00	719.89
5	37.014273	-86.091092	717.08	5.00	722.08
6	37.014286	-86.091414	718.53	5.00	723.53
7	37.013960	-86.091409	718.55	5.00	723.55
8	37.013960	-86.091677	715.22	5.00	720.22
9	37.013117	-86.091666	705.78	5.00	710.78
10	37.013112	-86.091033	707.83	5.00	712.83
11	37.013421	-86.090545	709.88	5.00	714.88
12	37.013973	-86.090352	713.75	5.00	718.75
13	37.013973	-86.089156	719.68	5.00	724.68

Name: 506
Footprint area: 6.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.013273	-86.089990	711.55	5.00	716.55
2	37.013286	-86.089131	721.59	5.00	726.59
3	37.012678	-86.089115	725.11	5.00	730.11
4	37.012673	-86.089807	719.10	5.00	724.10
5	37.012144	-86.089799	729.63	5.00	734.63
6	37.012067	-86.090537	724.26	5.00	729.26
7	37.012067	-86.090821	726.46	5.00	731.46
8	37.011671	-86.092618	720.41	5.00	725.41
9	37.012551	-86.092578	704.67	5.00	709.67
10	37.012875	-86.090883	709.90	5.00	714.90
11	37.012857	-86.090507	712.38	5.00	717.38
12	37.012917	-86.090507	712.28	5.00	717.28
13	37.012922	-86.090006	712.89	5.00	717.89

Name: 507
Footprint area: 9.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.013279	-86.089829	712.25	5.00	717.25
2	37.013710	-86.089840	712.30	5.00	717.30
3	37.013712	-86.089059	721.25	5.00	726.25
4	37.014472	-86.089051	718.55	5.00	723.55
5	37.014464	-86.087222	728.14	5.00	733.14
6	37.013273	-86.087181	723.80	5.00	728.80
7	37.013275	-86.086556	716.16	5.00	721.16
8	37.012138	-86.086524	713.84	5.00	718.84
9	37.012148	-86.087895	739.81	5.00	744.81
10	37.013298	-86.087919	731.80	5.00	736.80

2-Mile Flight Path Receptor(s)

Name: Glasgow Municipal Airport Runway 26
Description:
Threshold height : 50 ft
Direction: 252.2 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.033844	-85.946199	714.75	50.00	764.75
2-mile point	37.042702	-85.911682	732.56	585.62	1318.18

Name: Glasgow Municipal Airport Runway 8
Description:
Threshold height : 50 ft
Direction: 70.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.029484	-85.962314	707.66	50.00	757.66
2-mile point	37.019838	-85.996495	701.55	609.54	1311.09

Route Receptor(s)

Name: Merry Oaks Railton Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023287	-86.108697	675.64	5.00	680.64
2	37.020092	-86.108386	653.46	5.00	658.46
3	37.019638	-86.108483	657.04	5.00	662.04
4	37.018764	-86.109094	665.62	5.00	670.62
5	37.018490	-86.109255	664.25	5.00	669.25
6	37.016126	-86.110124	675.01	5.00	680.01
7	37.014669	-86.110854	678.68	5.00	683.68

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.015517	-86.110285	676.12	5.00	681.12
2	37.015346	-86.109502	687.76	5.00	692.76
3	37.015312	-86.108579	685.56	5.00	690.56
4	37.015098	-86.108257	685.13	5.00	690.13
5	37.014806	-86.108172	685.52	5.00	690.52
6	37.013821	-86.108343	682.85	5.00	687.85
7	37.013444	-86.108279	685.27	5.00	690.27
8	37.013307	-86.108107	687.67	5.00	692.67
9	37.013020	-86.107115	693.05	5.00	698.05
10	37.012605	-86.106551	693.05	5.00	698.05
11	37.012099	-86.106101	692.97	5.00	697.97
12	37.011328	-86.105854	690.78	5.00	695.78
13	37.010634	-86.105790	689.89	5.00	694.89
14	37.009658	-86.105618	688.10	5.00	693.10

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.010917	-86.079139	729.39	5.00	734.39
2	37.012365	-86.079129	735.56	5.00	740.56
3	37.014524	-86.078828	738.33	5.00	743.33
4	37.016828	-86.078538	753.40	5.00	758.40
5	37.018113	-86.078388	733.16	5.00	738.16
6	37.018447	-86.078388	728.62	5.00	733.62
7	37.019278	-86.078732	723.10	5.00	728.10
8	37.019467	-86.078699	723.08	5.00	728.08
9	37.020023	-86.078045	726.73	5.00	731.73
10	37.021600	-86.075867	713.49	5.00	718.49
11	37.021857	-86.075781	716.58	5.00	721.58
12	37.022216	-86.075770	724.11	5.00	729.11
13	37.025060	-86.075588	732.00	5.00	737.00
14	37.025257	-86.075255	728.37	5.00	733.37
15	37.025463	-86.074022	710.72	5.00	715.72
16	37.026525	-86.073646	718.76	5.00	723.76

Name: US 68
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023955	-86.110510	662.28	5.00	667.28
2	37.022388	-86.106197	673.50	5.00	678.50
3	37.022114	-86.105403	683.25	5.00	688.25
4	37.022045	-86.104374	696.54	5.00	701.54
5	37.022430	-86.102110	700.53	5.00	705.53
6	37.023870	-86.094975	702.80	5.00	707.80
7	37.025703	-86.087873	714.82	5.00	719.82
8	37.026011	-86.086263	689.06	5.00	694.06
9	37.026182	-86.084954	703.19	5.00	708.19
10	37.025960	-86.079504	684.92	5.00	689.92

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.009598	-86.105575	688.12	5.00	693.12
2	37.008578	-86.096091	714.28	5.00	719.28
3	37.008595	-86.095823	710.64	5.00	715.64
4	37.009401	-86.095072	697.25	5.00	702.25
5	37.010733	-86.094074	712.41	5.00	717.41
6	37.011217	-86.093671	716.45	5.00	721.45
7	37.011345	-86.093419	716.87	5.00	721.87
8	37.011277	-86.093097	720.91	5.00	725.91
9	37.011225	-86.092813	722.49	5.00	727.49
10	37.011260	-86.092518	727.18	5.00	732.18
11	37.011457	-86.091933	734.42	5.00	739.42
12	37.011902	-86.090104	728.16	5.00	733.16
13	37.011889	-86.089262	733.33	5.00	738.33
14	37.011872	-86.088398	738.78	5.00	743.78
15	37.011791	-86.087529	732.75	5.00	737.75
16	37.011727	-86.087046	724.07	5.00	729.07
17	37.011474	-86.086204	712.70	5.00	717.70
18	37.011393	-86.085968	710.73	5.00	715.73
19	37.011148	-86.085797	706.67	5.00	711.67

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	37.011816	-85.904852	831.81	500.00	1331.81
OP 2	37.012159	-86.088738	744.54	16.00	760.54
OP 3	37.011236	-86.094065	719.92	16.00	735.92
OP 4	37.010949	-86.092088	730.42	16.00	746.42
OP 5	37.013337	-86.103031	699.64	16.00	715.64
OP 6	37.011958	-86.105633	702.09	16.00	718.09
OP 7	37.012729	-86.107141	695.48	16.00	711.48
OP 8	37.015620	-86.108814	692.85	16.00	708.85
OP 9	37.015274	-86.111218	680.91	16.00	696.91
OP 10	37.018884	-86.108680	671.31	16.00	687.31
OP 11	37.019411	-86.107929	666.36	16.00	682.36
OP 12	37.019510	-86.108981	667.90	16.00	683.90
OP 13	37.020568	-86.108782	663.82	16.00	679.82
OP 14	37.021043	-86.108197	674.46	16.00	690.46
OP 15	37.020144	-86.110987	670.21	16.00	686.21
OP 16	37.021506	-86.109265	680.49	16.00	696.49
OP 17	37.021870	-86.109313	674.86	16.00	690.86
OP 18	37.022409	-86.109260	669.69	16.00	685.69
OP 19	37.022709	-86.107977	678.43	16.00	694.43
OP 20	37.022097	-86.108042	677.28	16.00	693.28
OP 21	37.022915	-86.101492	704.92	16.00	720.92
OP 22	37.021987	-86.098436	716.24	16.00	732.24
OP 23	37.021428	-86.101566	705.07	16.00	721.07
OP 24	37.023396	-86.095309	706.97	16.00	722.97
OP 25	37.025486	-86.087631	723.40	16.00	739.40
OP 26	37.024617	-86.081078	728.42	16.00	744.42
OP 27	37.023336	-86.076459	738.83	16.00	754.83
OP 28	37.021610	-86.078042	730.57	16.00	746.57
OP 29	37.018390	-86.079143	733.27	16.00	749.27
OP 30	37.017916	-86.079122	741.02	15.00	756.02
OP 31	37.017195	-86.079497	748.29	16.00	764.29
OP 32	37.016807	-86.079468	751.56	16.00	767.56
OP 33	37.016674	-86.078231	753.27	16.00	769.27
OP 34	37.013775	-86.079357	755.22	16.00	771.22
OP 35	37.010423	-86.078676	735.15	16.00	751.15
OP 36	37.009802	-86.084132	742.60	16.00	758.60
OP 37	37.023153	-86.109167	676.89	16.00	692.89
OP 38	37.023609	-86.107705	689.86	16.00	705.86
OP 39	37.023386	-86.106841	692.88	16.00	708.88
OP 40	37.022468	-86.105098	708.21	16.00	724.21

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
501	SA tracking	SA tracking	0	0	-	-
502	SA tracking	SA tracking	0	0	-	-
503	SA tracking	SA tracking	0	0	-	-
504	SA tracking	SA tracking	0	0	-	-
505	SA tracking	SA tracking	0	0	-	-
506	SA tracking	SA tracking	0	0	-	-
507	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

501 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Assumptions

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

Wood Duck

Block 5 9ft vehicle

Created Apr 27, 2023
Updated Apr 28, 2023
Time-step 1 minute
Timezone offset UTC-6
Minimum sun altitude 0.0 deg
Site ID 89295.15739

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

Misc. Analysis Settings

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

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
501	SA tracking	SA tracking	0	0	-
502	SA tracking	SA tracking	0	0	-
503	SA tracking	SA tracking	0	0	-
504	SA tracking	SA tracking	0	0	-
505	SA tracking	SA tracking	0	0	-
506	SA tracking	SA tracking	0	0	-
507	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 57.3 acres

Name: 501 Footprint area: 3.8 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad 	Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
		deg	deg	ft	ft	ft
	1	37.020242	-86.090376	706.88	5.00	711.88
	2	37.020274	-86.089429	704.53	5.00	709.53
	3	37.020473	-86.089311	704.15	5.00	709.15
	4	37.020503	-86.088995	702.69	5.00	707.69
	5	37.019398	-86.088944	694.16	5.00	699.16
	6	37.019154	-86.089236	692.80	5.00	697.80
	7	37.019188	-86.090330	704.68	5.00	709.68

Name: 502 Footprint area: 8.0 acres Axis tracking: Single-axis rotation Backtracking: Shade-slope Tracking axis orientation: 180.0 deg Maximum tracking angle: 60.0 deg Resting angle: 60.0 deg Ground Coverage Ratio: 0.5 Rated power: - Panel material: Smooth glass with AR coating Vary reflectivity with sun position? Yes Correlate slope error with surface type? Yes Slope error: 8.43 mrad 	Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
		deg	deg	ft	ft	ft
	1	37.017659	-86.089990	711.23	5.00	716.23
	2	37.016479	-86.089990	713.20	5.00	718.20
	3	37.016485	-86.092774	718.13	5.00	723.13
	4	37.017685	-86.092731	702.49	5.00	707.49

Name: 503
Footprint area: 13.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017689	-86.092739	702.42	5.00	707.42
2	37.017698	-86.093364	705.95	5.00	710.95
3	37.017616	-86.093560	704.90	5.00	709.90
4	37.017616	-86.093809	704.24	5.00	709.24
5	37.017970	-86.093798	700.48	5.00	705.48
6	37.017948	-86.097449	682.28	5.00	687.28
7	37.017143	-86.097449	688.56	5.00	693.56
8	37.017134	-86.097181	690.64	5.00	695.64
9	37.016783	-86.097175	690.42	5.00	695.42
10	37.016779	-86.093683	709.82	5.00	714.82
11	37.016303	-86.093699	711.57	5.00	716.57
12	37.016475	-86.092787	717.78	5.00	722.78

Name: 504
Footprint area: 9.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.017965	-86.097449	681.89	5.00	686.89
2	37.017961	-86.097706	681.15	5.00	686.15
3	37.019087	-86.097706	681.15	5.00	686.15
4	37.019109	-86.094236	687.85	5.00	692.85
5	37.018616	-86.094123	691.77	5.00	696.77
6	37.017974	-86.094112	700.93	5.00	705.93

Name: 505
Footprint area: 5.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.014783	-86.089145	722.18	5.00	727.18
2	37.014800	-86.090395	715.70	5.00	720.70
3	37.014650	-86.090641	715.02	5.00	720.02
4	37.014492	-86.090631	714.89	5.00	719.89
5	37.014273	-86.091092	717.08	5.00	722.08
6	37.014286	-86.091414	718.53	5.00	723.53
7	37.013960	-86.091409	718.55	5.00	723.55
8	37.013960	-86.091677	715.22	5.00	720.22
9	37.013117	-86.091666	705.78	5.00	710.78
10	37.013112	-86.091033	707.83	5.00	712.83
11	37.013421	-86.090545	709.88	5.00	714.88
12	37.013973	-86.090352	713.75	5.00	718.75
13	37.013973	-86.089156	719.68	5.00	724.68

Name: 506
Footprint area: 6.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.013273	-86.089990	711.55	5.00	716.55
2	37.013286	-86.089131	721.59	5.00	726.59
3	37.012678	-86.089115	725.11	5.00	730.11
4	37.012673	-86.089807	719.10	5.00	724.10
5	37.012144	-86.089799	729.63	5.00	734.63
6	37.012067	-86.090537	724.26	5.00	729.26
7	37.012067	-86.090821	726.46	5.00	731.46
8	37.011671	-86.092618	720.41	5.00	725.41
9	37.012551	-86.092578	704.67	5.00	709.67
10	37.012875	-86.090883	709.90	5.00	714.90
11	37.012857	-86.090507	712.38	5.00	717.38
12	37.012917	-86.090507	712.28	5.00	717.28
13	37.012922	-86.090006	712.89	5.00	717.89

Name: 507
Footprint area: 9.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.013279	-86.089829	712.25	5.00	717.25
2	37.013710	-86.089840	712.30	5.00	717.30
3	37.013712	-86.089059	721.25	5.00	726.25
4	37.014472	-86.089051	718.55	5.00	723.55
5	37.014464	-86.087222	728.14	5.00	733.14
6	37.013273	-86.087181	723.80	5.00	728.80
7	37.013275	-86.086556	716.16	5.00	721.16
8	37.012138	-86.086524	713.84	5.00	718.84
9	37.012148	-86.087895	739.81	5.00	744.81
10	37.013298	-86.087919	731.80	5.00	736.80

2-Mile Flight Path Receptor(s)

Name: Glasgow Municipal Airport Runway 26
Description:
Threshold height : 50 ft
Direction: 252.2 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.033844	-85.946199	714.75	50.00	764.75
2-mile point	37.042702	-85.911682	732.56	585.62	1318.18

Name: Glasgow Municipal Airport Runway 8
Description:
Threshold height : 50 ft
Direction: 70.5 deg
Glide slope: 3.0 deg
Pilot view restricted? Yes
Vertical view restriction: 30.0 deg
Azimuthal view restriction: 50.0 deg



Point	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
Threshold	37.029484	-85.962314	707.66	50.00	757.66
2-mile point	37.019838	-85.996495	701.55	609.54	1311.09

Route Receptor(s)

Name: Merry Oaks Railton Road
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023287	-86.108697	675.64	9.00	684.64
2	37.020092	-86.108386	653.46	9.00	662.46
3	37.019638	-86.108483	657.04	9.00	666.04
4	37.018764	-86.109094	665.62	9.00	674.62
5	37.018490	-86.109255	664.25	9.00	673.25
6	37.016126	-86.110124	675.01	9.00	684.01
7	37.014669	-86.110854	678.68	9.00	687.68

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.015517	-86.110285	676.12	9.00	685.12
2	37.015346	-86.109502	687.76	9.00	696.76
3	37.015312	-86.108579	685.56	9.00	694.56
4	37.015098	-86.108257	685.13	9.00	694.13
5	37.014806	-86.108172	685.52	9.00	694.52
6	37.013821	-86.108343	682.85	9.00	691.85
7	37.013444	-86.108279	685.27	9.00	694.27
8	37.013307	-86.108107	687.67	9.00	696.67
9	37.013020	-86.107115	693.05	9.00	702.05
10	37.012605	-86.106551	693.05	9.00	702.05
11	37.012099	-86.106101	692.97	9.00	701.97
12	37.011328	-86.105854	690.78	9.00	699.78
13	37.010634	-86.105790	689.89	9.00	698.89
14	37.009658	-86.105618	688.10	9.00	697.10

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.010917	-86.079139	729.39	9.00	738.39
2	37.012365	-86.079129	735.56	9.00	744.56
3	37.014524	-86.078828	738.33	9.00	747.33
4	37.016828	-86.078538	753.40	9.00	762.40
5	37.018113	-86.078388	733.16	9.00	742.16
6	37.018447	-86.078388	728.62	9.00	737.62
7	37.019278	-86.078732	723.10	9.00	732.10
8	37.019467	-86.078699	723.08	9.00	732.08
9	37.020023	-86.078045	726.73	9.00	735.73
10	37.021600	-86.075867	713.49	9.00	722.49
11	37.021857	-86.075781	716.58	9.00	725.58
12	37.022216	-86.075770	724.11	9.00	733.11
13	37.025060	-86.075588	732.00	9.00	741.00
14	37.025257	-86.075255	728.37	9.00	737.37
15	37.025463	-86.074022	710.72	9.00	719.72
16	37.026525	-86.073646	718.76	9.00	727.76

Name: US 68
Route type Two-way
View angle: 50.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.023955	-86.110510	662.28	9.00	671.28
2	37.022388	-86.106197	673.50	9.00	682.50
3	37.022114	-86.105403	683.25	9.00	692.25
4	37.022045	-86.104374	696.54	9.00	705.54
5	37.022430	-86.102110	700.53	9.00	709.53
6	37.023870	-86.094975	702.80	9.00	711.80
7	37.025703	-86.087873	714.82	9.00	723.82
8	37.026011	-86.086263	689.06	9.00	698.06
9	37.026182	-86.084954	703.19	9.00	712.19
10	37.025960	-86.079504	684.92	9.00	693.92

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



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	37.009598	-86.105575	688.12	9.00	697.12
2	37.008578	-86.096091	714.28	9.00	723.28
3	37.008595	-86.095823	710.64	9.00	719.64
4	37.009401	-86.095072	697.25	9.00	706.25
5	37.010733	-86.094074	712.41	9.00	721.41
6	37.011217	-86.093671	716.45	9.00	725.45
7	37.011345	-86.093419	716.87	9.00	725.87
8	37.011277	-86.093097	720.91	9.00	729.91
9	37.011225	-86.092813	722.49	9.00	731.49
10	37.011260	-86.092518	727.18	9.00	736.18
11	37.011457	-86.091933	734.42	9.00	743.42
12	37.011902	-86.090104	728.16	9.00	737.16
13	37.011889	-86.089262	733.33	9.00	742.33
14	37.011872	-86.088398	738.78	9.00	747.78
15	37.011791	-86.087529	732.75	9.00	741.75
16	37.011727	-86.087046	724.07	9.00	733.07
17	37.011474	-86.086204	712.70	9.00	721.70
18	37.011393	-86.085968	710.73	9.00	719.73
19	37.011148	-86.085797	706.67	9.00	715.67

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	37.011816	-85.904852	831.81	500.00	1331.81
OP 2	37.012159	-86.088738	744.54	16.00	760.54
OP 3	37.011236	-86.094065	719.92	16.00	735.92
OP 4	37.010949	-86.092088	730.42	16.00	746.42
OP 5	37.013337	-86.103031	699.64	16.00	715.64
OP 6	37.011958	-86.105633	702.09	16.00	718.09
OP 7	37.012729	-86.107141	695.48	16.00	711.48
OP 8	37.015620	-86.108814	692.85	16.00	708.85
OP 9	37.015274	-86.111218	680.91	16.00	696.91
OP 10	37.018884	-86.108680	671.31	16.00	687.31
OP 11	37.019411	-86.107929	666.36	16.00	682.36
OP 12	37.019510	-86.108981	667.90	16.00	683.90
OP 13	37.020568	-86.108782	663.82	16.00	679.82
OP 14	37.021043	-86.108197	674.46	16.00	690.46
OP 15	37.020144	-86.110987	670.21	16.00	686.21
OP 16	37.021506	-86.109265	680.49	16.00	696.49
OP 17	37.021870	-86.109313	674.86	16.00	690.86
OP 18	37.022409	-86.109260	669.69	16.00	685.69
OP 19	37.022709	-86.107977	678.43	16.00	694.43
OP 20	37.022097	-86.108042	677.28	16.00	693.28
OP 21	37.022915	-86.101492	704.92	16.00	720.92
OP 22	37.021987	-86.098436	716.24	16.00	732.24
OP 23	37.021428	-86.101566	705.07	16.00	721.07
OP 24	37.023396	-86.095309	706.97	16.00	722.97
OP 25	37.025486	-86.087631	723.40	16.00	739.40
OP 26	37.024617	-86.081078	728.42	16.00	744.42
OP 27	37.023336	-86.076459	738.83	16.00	754.83
OP 28	37.021610	-86.078042	730.57	16.00	746.57
OP 29	37.018390	-86.079143	733.27	16.00	749.27
OP 30	37.017916	-86.079122	741.02	15.00	756.02
OP 31	37.017195	-86.079497	748.29	16.00	764.29
OP 32	37.016807	-86.079468	751.56	16.00	767.56
OP 33	37.016674	-86.078231	753.27	16.00	769.27
OP 34	37.013775	-86.079357	755.22	16.00	771.22
OP 35	37.010423	-86.078676	735.15	16.00	751.15
OP 36	37.009802	-86.084132	742.60	16.00	758.60
OP 37	37.023153	-86.109167	676.89	16.00	692.89
OP 38	37.023609	-86.107705	689.86	16.00	705.86
OP 39	37.023386	-86.106841	692.88	16.00	708.88
OP 40	37.022468	-86.105098	708.21	16.00	724.21

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
501	SA tracking	SA tracking	0	0	-	-
502	SA tracking	SA tracking	0	0	-	-
503	SA tracking	SA tracking	0	0	-	-
504	SA tracking	SA tracking	0	0	-	-
505	SA tracking	SA tracking	0	0	-	-
506	SA tracking	SA tracking	0	0	-	-
507	SA tracking	SA tracking	0	0	-	-

PV & Receptor Analysis Results

Results for each PV array and receptor

501 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Component	Green glare (min)	Yellow glare (min)
FP: Glasgow Municipal Airport Runway 26	0	0
FP: Glasgow Municipal Airport Runway 8	0	0
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
Route: Merry Oaks Railton Road	0	0
Route: Red Cross Road	0	0
Route: Rick Road	0	0
Route: US 68	0	0
Route: Waller Road	0	0

No glare found

Assumptions

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

Wood Duck Glare Summary

Block 1

<u>Routes</u>	<u>Glare?</u>	<u>Green or Yellow?</u>	<u>Approximate Max. Minutes/day</u>	<u>Approximate time of day</u>	<u>Approximate time of year</u>	<u>Latitude</u>	<u>Longitude</u>
Cumberland Parkway Westbound	No						
Cumberland Parkway Eastbound	No						
Park City Bon Ayr Road	No						
Millstown Road	No						
R Crump C Bellamy Road	No						
Apple Grove Road	No						
<u>Aviation</u>							
Glasgow Airport Runway 8	No						
Glasgow Airport Runway 26	No						
TJ Samson Community Hospital helipad (OP1)	No						
<u>Houses</u>							
OP2	No					37.060481	-86.054912
OP3	No					37.058276	-86.056317
OP4	No					37.060950	-86.056097
OP5	No					37.055491	-86.056306
OP6	No					37.054519	-86.056698
OP7	No					37.053521	-86.058012
OP8	No					37.052271	-86.058130
OP9	No					37.050961	-86.057320
OP10	No					37.050529	-86.058044
OP11	No					37.049762	-86.059460
OP12	No					37.048743	-86.060104
OP13	No					37.050404	-86.063156
OP14	No					37.050238	-86.063763
OP15	No					37.051017	-86.063441
OP16	No					37.051184	-86.063704
OP17	No					37.050863	-86.065114
OP18	No					37.051402	-86.065683
OP19	No					37.052618	-86.065592
OP20	No					37.052759	-86.068108
OP21	No					37.054029	-86.070908
OP22	No					37.054071	-86.070192
OP23	No					37.053971	-86.071412
OP24	No					37.055202	-86.070966
OP25	No					37.055287	-86.071899
OP26	No					37.053874	-86.073321
OP27	No					37.053864	-86.077649
OP28	No					37.051328	-86.088383
OP29	No					37.048539	-86.080661
OP30	No					37.046493	-86.081439
OP31	No					37.043720	-86.076072
OP32	No					37.044272	-86.078060
OP33	No					37.043446	-86.060683
OP34	No					37.051295	-86.091385
OP35	No					37.043270	-86.072800
OP36	No					37.046460	-86.060576
OP37	No					37.061617	-86.066793
OP38	No					37.061176	-86.068477
OP39	No					37.056279	-86.072313
OP40	No					37.056048	-86.070865

Block 2

<u>Routes</u>	<u>Glare?</u>	<u>Green or Yellow?</u>	<u>Approximate Max. Minutes/day</u>	<u>Approximate time of day</u>	<u>Approximate time of year</u>	<u>Latitude</u>	<u>Longitude</u>
Cumberland Parkway Westbound	No						
Cumberland Parkway Eastbound	No						
Park City Bon Ayr Road	Yes	green	160	early afternoon	Sep-Mar		
Dripping Springs Road	Yes	both	130	early afternoon	Sep-Mar		
Mayhew Road	No						
Apple Grove Road	Yes	green	116	early afternoon	Sep-Mar		
Disman Road	No						
<u>Aviation</u>							
Glasgow Airport Runway 8	No						
Glasgow Airport Runway 26	No						
TJ Samson Community Hospital helipad (OP1)	No						
<u>Houses</u>							
OP2	No					37.032362	-86.047508
OP3	No					37.040909	-86.060455
OP4	No					37.041464	-86.060640
OP5	No					37.043461	-86.060681
OP6	Yes	green	3	early afternoon	Mar, Sep	37.046465	-86.060571

OP7	Yes	green	95	early afternoon	Jan-Mar, Oct-Nov	37.048740	-86.060088
OP8	Yes	green	120	early afternoon	Oct-Mar	37.049762	-86.059452
OP9	Yes	green	180	early afternoon	Oct-Mar	37.050524	-86.058065
OP10	Yes	green	200	early afternoon	Oct-Mar	37.050952	-86.057331
OP11	Yes	green	250	late morning	Oct-Mar	37.047848	-86.051902
OP12	Yes	green	160	mid- late-monrning	Sep-Mar	37.047839	-86.050553
OP13	Yes	green	130	mid-morning	Sep-Mar	37.046966	-86.050129
OP14	Yes	green	115	mid-morning	Sep-Mar	37.046542	-86.049863
OP15	Yes	green	46	mid-morning	Feb-Mar, Sep-Oct	37.046854	-86.048820
OP16	Yes	green	60	mid-morning	Feb-Mar, Sep-Oct	37.047647	-86.048477
OP17	Yes	green	52	mid-morning	Feb-Mar, Sep-Oct	37.048244	-86.047900
OP18	Yes	green	52	mid-morning	Feb-Mar, Sep-Oct	37.048019	-86.048037
OP19	No					37.046623	-86.046741
OP20	No					37.046461	-86.046304
OP21	No					37.046377	-86.045945
OP22	No					37.046321	-86.045548
OP23	No					37.045227	-86.041527
OP24	No					37.045405	-86.040754
OP25	No					37.045536	-86.041186
OP26	No					37.045266	-86.040384
OP27	No					37.045131	-86.040044
OP28	No					37.044726	-86.040414
OP29	No					37.044088	-86.039403
OP30	No					37.043528	-86.038630
OP31	No					37.043307	-86.038070
OP32	No					37.042678	-86.037431
OP33	No					37.032271	-86.060469
OP34	No					37.032611	-86.061204
OP35	No					37.034855	-86.059887
OP36	No					37.035759	-86.060907
OP37	No					37.037502	-86.060993
OP38	No					37.037831	-86.062752
OP39	No					37.038838	-86.063133
OP40	No					37.039056	-86.063557

Block 3

<u>Routes</u>	<u>Glare?</u>	<u>Green or Yellow?</u>	<u>Approximate Max. Minutes/day</u>	<u>Approximate time of day</u>	<u>Approximate time of year</u>	<u>Latitude</u>	<u>Longitude</u>
Cumberland Parkway Westbound	No						
Cumberland Parkway Eastbound	No						
US 68	No						
Millstown Road	No						
Oak Grove Church Road	No						
Payne Loop Road	No						
<u>Aviation</u>							
Glasgow Airport Runway 8	No						
Glasgow Airport Runway 26	No						
TJ Samson Community Hospital helipad (OP1)	No						
<u>Houses</u>							
OP2	No					37.026447	-86.083909
OP3	No					37.025941	-86.083549
OP4	No					37.026156	-86.087685
OP5	No					37.026186	-86.089305
OP6	No					37.034406	-86.091907
OP7	No					37.034860	-86.091786
OP8	No					37.035380	-86.091065
OP9	No					37.036231	-86.091140
OP10	No					37.041631	-86.088099
OP11	No					37.046230	-86.090902
OP12	No					37.046339	-86.088507
OP13	No					37.047442	-86.094478
OP14	No					37.047756	-86.093592
OP15	No					37.045605	-86.085033
OP16	No					37.044278	-86.078043
OP17	No					37.040683	-86.068551
OP18	No					37.040666	-86.068119
OP19	No					37.039865	-86.065083
OP20	No					37.039071	-86.063538
OP21	No					37.024613	-86.081058
OP22	No					37.025046	-86.075935
OP23	No					37.024776	-86.075265
OP24	No					37.025847	-86.071896
OP25	No					37.026523	-86.071215
OP26	No					37.025493	-86.087634
OP27	No					37.028577	-86.097086
OP28	No					37.029206	-86.096700

OP29	No					37.029596	-86.096496
OP30	No					37.030080	-86.096051
OP31	No					37.029647	-86.095249
OP32	No					37.031526	-86.095080
OP33	No					37.043066	-86.103205
OP34	No					37.046487	-86.081460
OP35	No					37.048538	-86.080653
OP36	No					37.051338	-86.088415
OP37	No					37.043272	-86.072816
OP38	No					37.038846	-86.063124
OP39	No					37.035788	-86.060912
OP40	No					37.037856	-86.062768

Block 4 - New 6' Tree Plantings and Existing Trees

<u>Routes</u>	<u>Glare?</u>	<u>Green or Yellow?</u>	<u>Approximate Max. Minutes/day</u>	<u>Approximate time of day</u>	<u>Approximate time of year</u>	<u>Latitude</u>	<u>Longitude</u>
Cumberland Parkway Westbound	yes	both	120	late morning/early afternoon	Oct-Mar		
Cumberland Parkway Eastbound	yes	both	120	late morning/early afternoon	Oct-Mar		
US 68	yes	green	6	late morning	Nov-Jan		
Rick Road	no						
Fox Chase Street	no						
Oak Grove Church Road	yes	green	250	late morning/early afternoon	Oct-Feb		
Park City Bon Ayr Road	no						
Millstown Road	yes	green	160	late morning/early afternoon	Nov-Jan		
Aviation							
Glasgow Airport Runway 8	no						
Glasgow Airport Runway 26	no						
TJ Samson Community Hospital helipad (OP1)	no						
Houses							
OP2	no					37.017204	-86.079478
OP3	no					37.017934	-86.079105
OP4	no					37.018429	-86.079137
OP5	no					37.019238	-86.076162
OP6	no					37.021619	-86.078035
OP7	no					37.021341	-86.074773
OP8	no					37.022463	-86.075336
OP9	no					37.023341	-86.076441
OP10	no					37.022887	-86.075283
OP11	no					37.023247	-86.075309
OP12	no					37.023620	-86.075256
OP13	no					37.024039	-86.075250
OP14	no					37.024339	-86.076133
OP15	no					37.025056	-86.075910
OP16	no					37.024799	-86.075283
OP17	yes	green	75	late morning	Nov-Jan	37.024617	-86.081093
OP18	yes	green	83	late morning/early afternoon	Nov-Jan	37.025944	-86.083539
OP19	yes	green	120	early afternoon	Nov-Jan	37.025486	-86.087613
OP20	yes	green	118	late morning/early afternoon	Nov-Jan	37.026150	-86.087705
OP21	yes	green	110	late morning/early afternoon	Nov-Jan	37.026182	-86.089292
OP22	no					37.023394	-86.095282
OP23	no					37.021972	-86.098391
OP24	no					37.021444	-86.101577
OP25	yes	green	65	late morning/early afternoon	Nov-Jan	37.026463	-86.083888
OP26	yes	green	26	early afternoon	Nov-Jan	37.029667	-86.095347
OP27	yes	green	24	early afternoon	Nov-Jan	37.030082	-86.096074
OP28	yes	green	74	early afternoon	Nov-Jan	37.034426	-86.091887
OP29	yes	green	70	early afternoon	Nov-Jan	37.035363	-86.091074
OP30	yes	green	70	early afternoon	Nov-Jan	37.036243	-86.091157
OP31	yes	green	60	early to mid-afternoon	Oct-Feb	37.041639	-86.088140
OP32	yes	both	190	late morning/early afternoon	Sep-Mar	37.040684	-86.068592
OP33	yes	green	150	late morning/early afternoon	Sep-Mar	37.040675	-86.068088
OP34	yes	green	2	late morning	Oct and Feb	37.039866	-86.065105
OP35	no					37.038834	-86.063099
OP36	no					37.037841	-86.062718
OP37	no					37.035772	-86.060948
OP38	no					37.034907	-86.059901

OP39	no					37.032646	-86.061210
OP40	no					37.026518	-86.071273

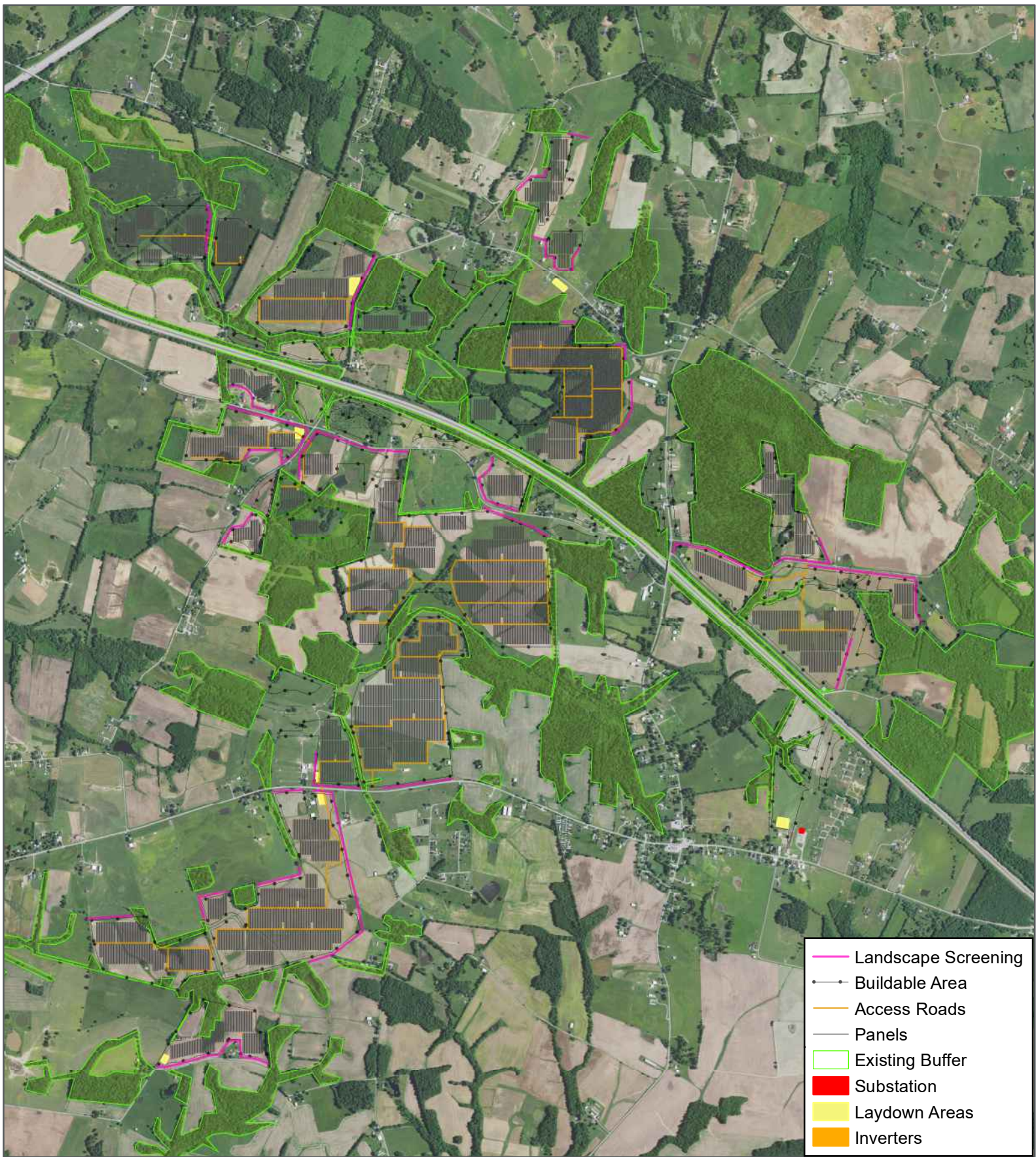
Block 4 - Mature Tree Plantings and Existing Trees

<u>Routes</u>	<u>Glare?</u>	<u>Green or Yellow?</u>	<u>Approximate Max. Minutes/day</u>	<u>Approximate time of day</u>	<u>Approximate time of year</u>	<u>Latitude</u>	<u>Longitude</u>
Cumberland Parkway Westbound	yes	green	120	late morning/early afternoon	Oct-Mar		
Cumberland Parkway Eastbound	yes	green	120	late morning/early afternoon	Oct-Mar		
US 68	yes	green	6	late morning	Nov-Jan		
Rick Road	no						
Fox Chase Street	no						
Oak Grove Church Road	yes	green	250	late morning/early afternoon	Oct-Mar		
Park City Bon Ayr Road	no						
Millstown Road	yes	green	160	late morning/early afternoon	Nov-Jan		
Aviation							
Glasgow Airport Runway 8	no						
Glasgow Airport Runway 26	no						
TJ Samson Community Hospital helipad (OP1)	no						
Houses							
OP2	no					37.017204	-86.079478
OP3	no					37.017934	-86.079105
OP4	no					37.018429	-86.079137
OP5	no					37.019238	-86.076162
OP6	no					37.021619	-86.078035
OP7	no					37.021341	-86.074773
OP8	no					37.022463	-86.075336
OP9	no					37.023341	-86.076441
OP10	no					37.022887	-86.075283
OP11	no					37.023247	-86.075309
OP12	no					37.023620	-86.075256
OP13	no					37.024039	-86.075250
OP14	no					37.024339	-86.076133
OP15	no					37.025056	-86.075910
OP16	no					37.024799	-86.075283
OP17	yes	green	75	late morning	Nov-Jan	37.024617	-86.081093
OP18	yes	green	85	late morning/early afternoon	Nov-Jan	37.025944	-86.083539
OP19	yes	green	120	late morning/early afternoon	Nov-Jan	37.025486	-86.087613
OP20	yes	green	118	late morning/early afternoon	Nov-Jan	37.026150	-86.087705
OP21	yes	green	110	late morning/early afternoon	Nov-Jan	37.026182	-86.089292
OP22	no					37.023394	-86.095282
OP23	no					37.021972	-86.098391
OP24	no					37.021444	-86.101577
OP25	yes	green	50	early afternoon	Nov-Jan	37.026463	-86.083888
OP26	yes	green	28	early afternoon	Nov-Jan	37.029667	-86.095347
OP27	yes	green	24	early afternoon	Nov-Jan	37.030082	-86.096074
OP28	yes	green	75	early afternoon	Nov-Jan	37.034426	-86.091887
OP29	yes	green	70	early afternoon	Nov-Jan	37.035363	-86.091074
OP30	yes	green	68	early afternoon	Nov-Jan	37.036243	-86.091157
OP31	yes	green	58	early to mid afternoon	Oct-Feb	37.041639	-86.088140
OP32	yes	green	150	late morning/early afternoon	Oct-Mar	37.040684	-86.068592
OP33	yes	green	130	late morning/early afternoon	Oct-Mar	37.040675	-86.068088
OP34	yes	green	3	mid-morning	Oct and Feb	37.039866	-86.065105
OP35	no					37.038834	-86.063099
OP36	no					37.037841	-86.062718
OP37	no					37.035772	-86.060948
OP38	no					37.034907	-86.059901
OP39	no					37.032646	-86.061210
OP40	no					37.026518	-86.071273

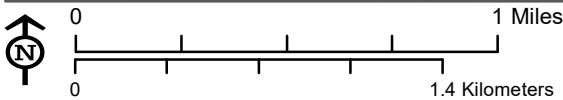
Block 5

<u>Routes</u>	<u>Glare?</u>	<u>Green or Yellow?</u>	<u>Approximate Max. Minutes/day</u>	<u>Approximate time of day</u>	<u>Approximate time of year</u>	<u>Latitude</u>	<u>Longitude</u>
US 68	No						
Merry Oaks Railton Road	No						
Red Cross Road	No						
Waller Road	No						

Rick Road	No						
Aviation							
Glasgow Airport Runway 8	No						
Glasgow Airport Runway 26	No						
TJ Samson Community Hospital helipad (OP1)	No						
Houses							
OP2	No					37.012159	-86.088738
OP3	No					37.011236	-86.094065
OP4	No					37.010949	-86.092088
OP5	No					37.013337	-86.103031
OP6	No					37.011958	-86.105633
OP7	No					37.012729	-86.107141
OP8	No					37.015620	-86.108814
OP9	No					37.015274	-86.111218
OP10	No					37.018884	-86.108680
OP11	No					37.019411	-86.107929
OP12	No					37.019510	-86.108981
OP13	No					37.020568	-86.108782
OP14	No					37.021043	-86.108197
OP15	No					37.020144	-86.110987
OP16	No					37.021506	-86.109265
OP17	No					37.021870	-86.109313
OP18	No					37.022409	-86.109260
OP19	No					37.022709	-86.107977
OP20	No					37.022097	-86.108042
OP21	No					37.022915	-86.101492
OP22	No					37.021987	-86.098436
OP23	No					37.021428	-86.101566
OP24	No					37.023396	-86.095309
OP25	No					37.025486	-86.087631
OP26	No					37.024617	-86.081078
OP27	No					37.023336	-86.076459
OP28	No					37.021610	-86.078042
OP29	No					37.018390	-86.079143
OP30	No					37.017916	-86.079122
OP31	No					37.017195	-86.079497
OP32	No					37.016807	-86.079468
OP33	No					37.016674	-86.078231
OP34	No					37.013775	-86.079357
OP35	No					37.010423	-86.078676
OP36	No					37.009802	-86.084132
OP37	No					37.023153	-86.109167
OP38	No					37.023609	-86.107705
OP39	No					37.023386	-86.106841
OP40	No					37.022468	-86.105098



- Landscape Screening
- Buildable Area
- Access Roads
- Panels
- Existing Buffer
- Substation
- Laydown Areas
- Inverters



7.5' Quadrangles
PLSS: unsectioned

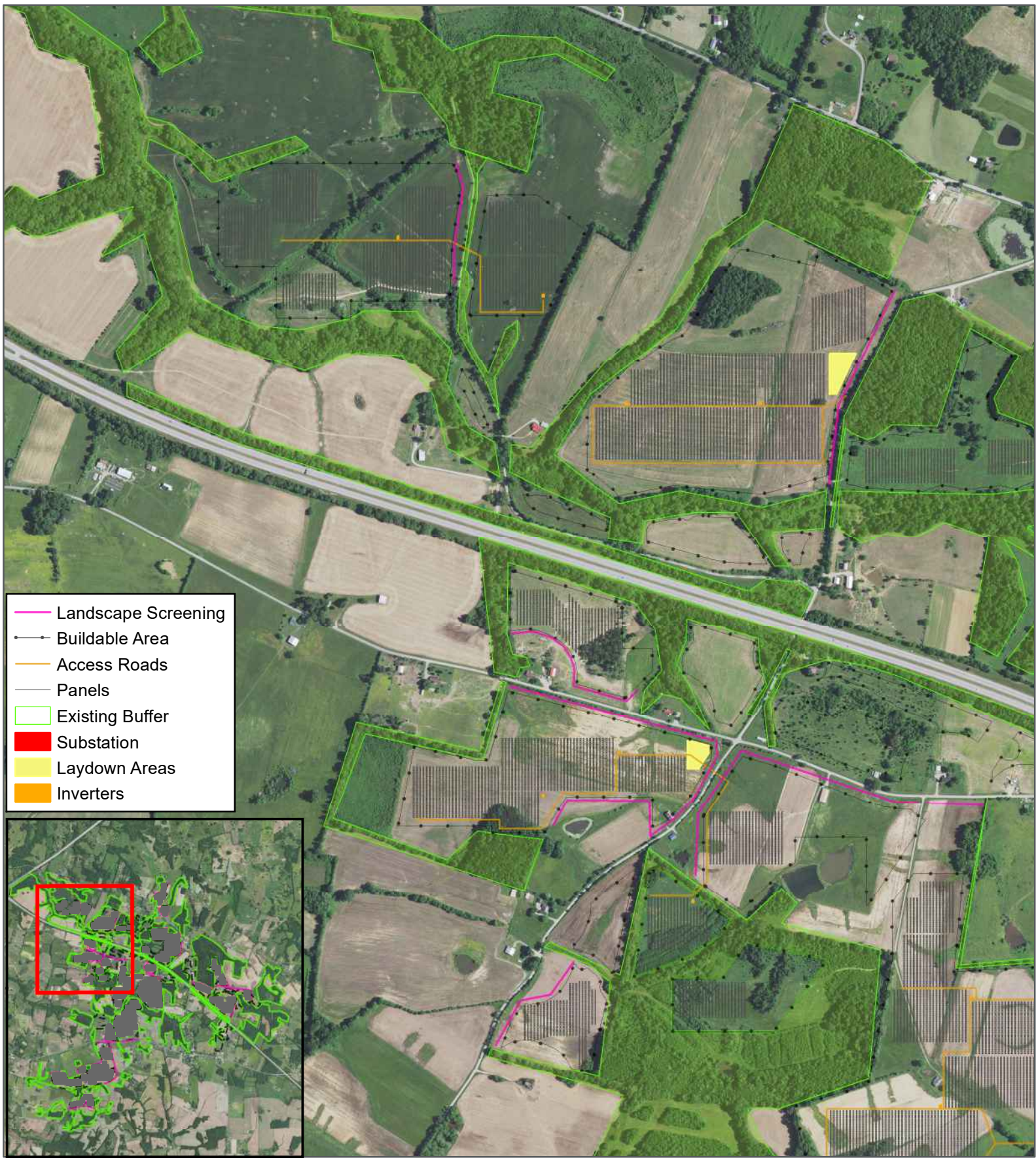
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C202: Preliminary Landscape Plan

Visual Resource Assessment for the Wood Duck Solar Project

Geenex Solar, LLC
Barren and Edmonson County, Kentucky

Stantec
76 San Marcos Street
Austin, TX 78702 USA
Phone (+1) 512.745.8129
www.stantec.com

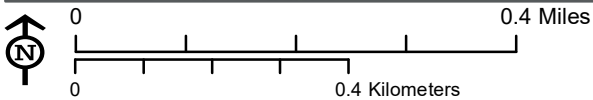
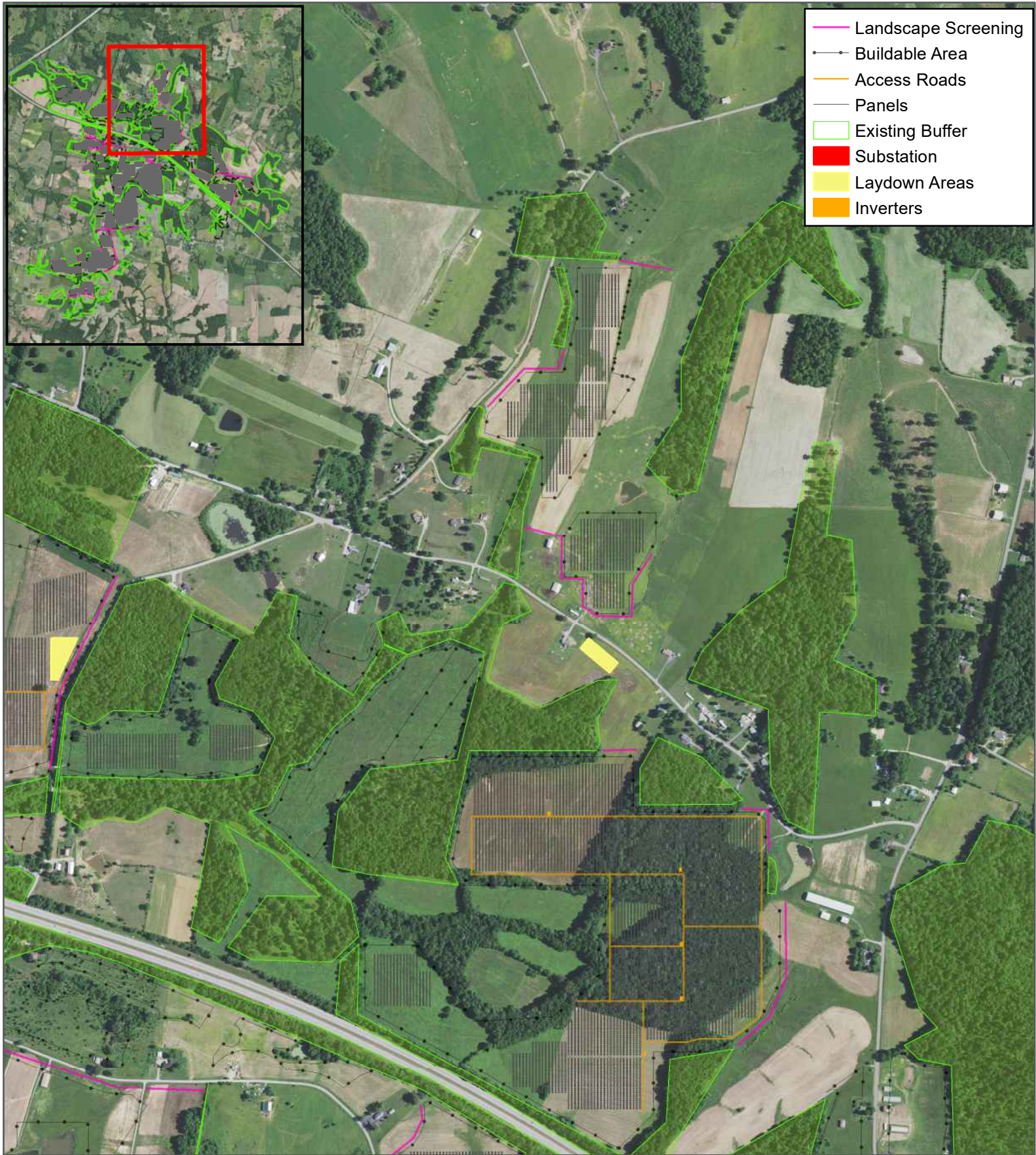


7.5' Quadrangles
PLSS: unsectioned

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C202: Preliminary Landscape Plan
Visual Resource Assessment for the Wood Duck Solar Project
Geenex Solar, LLC
Barren and Edmonson County, Kentucky

Stantec
76 San Marcos Street
Austin, TX 78702 USA
Phone (+1) 512.745.8129
www.stantec.com



7.5' Quadrangles
PLSS: unsectioned

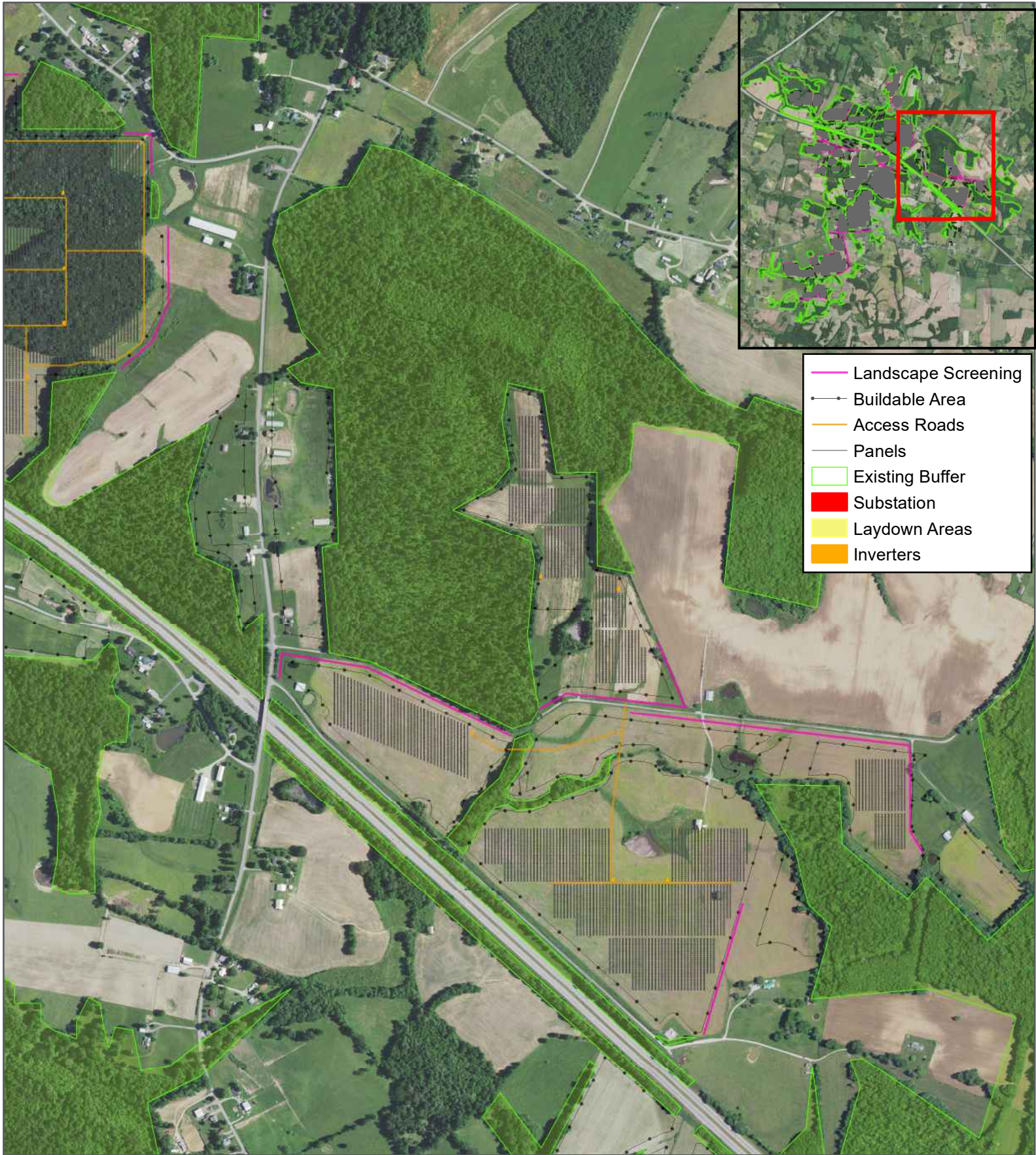
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C202: Preliminary Landscape Plan

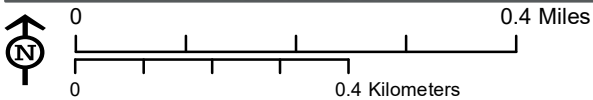
Visual Resource Assessment for the Wood Duck Solar Project
Geenex Solar, LLC
Barren and Edmonson County, Kentucky



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Austin, TX 78702 USA
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- Landscape Screening
- Buildable Area
- Access Roads
- Panels
- Existing Buffer
- Substation
- Laydown Areas
- Inverters

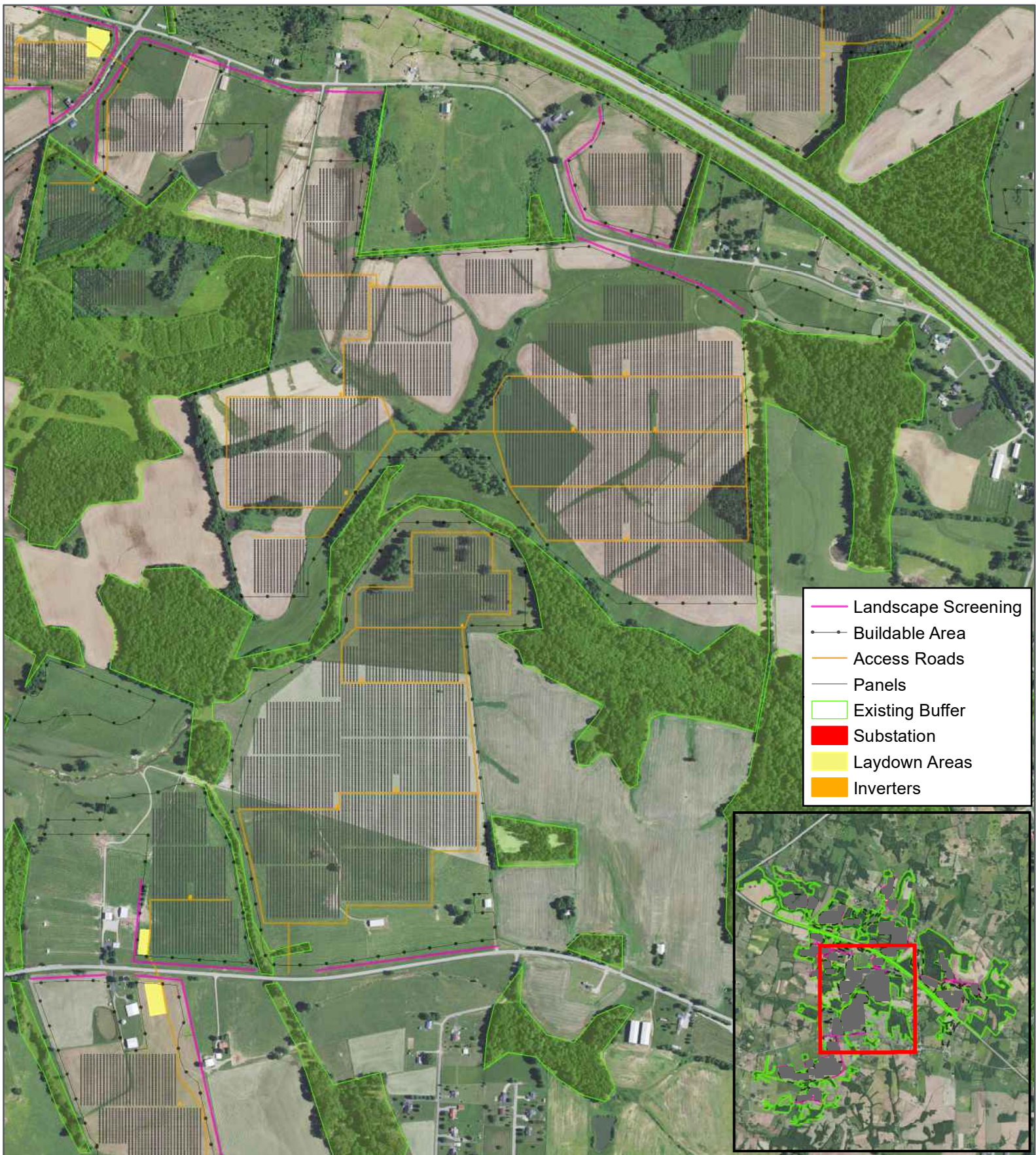


7.5' Quadrangles
PLSS: unsectioned

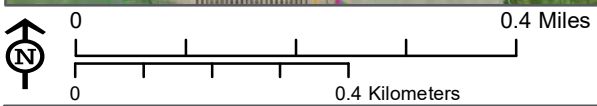
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C202: Preliminary Landscape Plan
Visual Resource Assessment for the Wood Duck Solar Project
Geenex Solar, LLC
Barren and Edmonson County, Kentucky

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- Landscape Screening
- Buildable Area
- Access Roads
- Panels
- Existing Buffer
- Substation
- Laydown Areas
- Inverters



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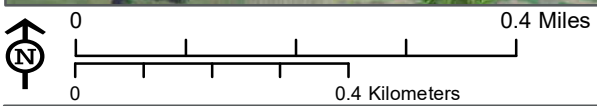
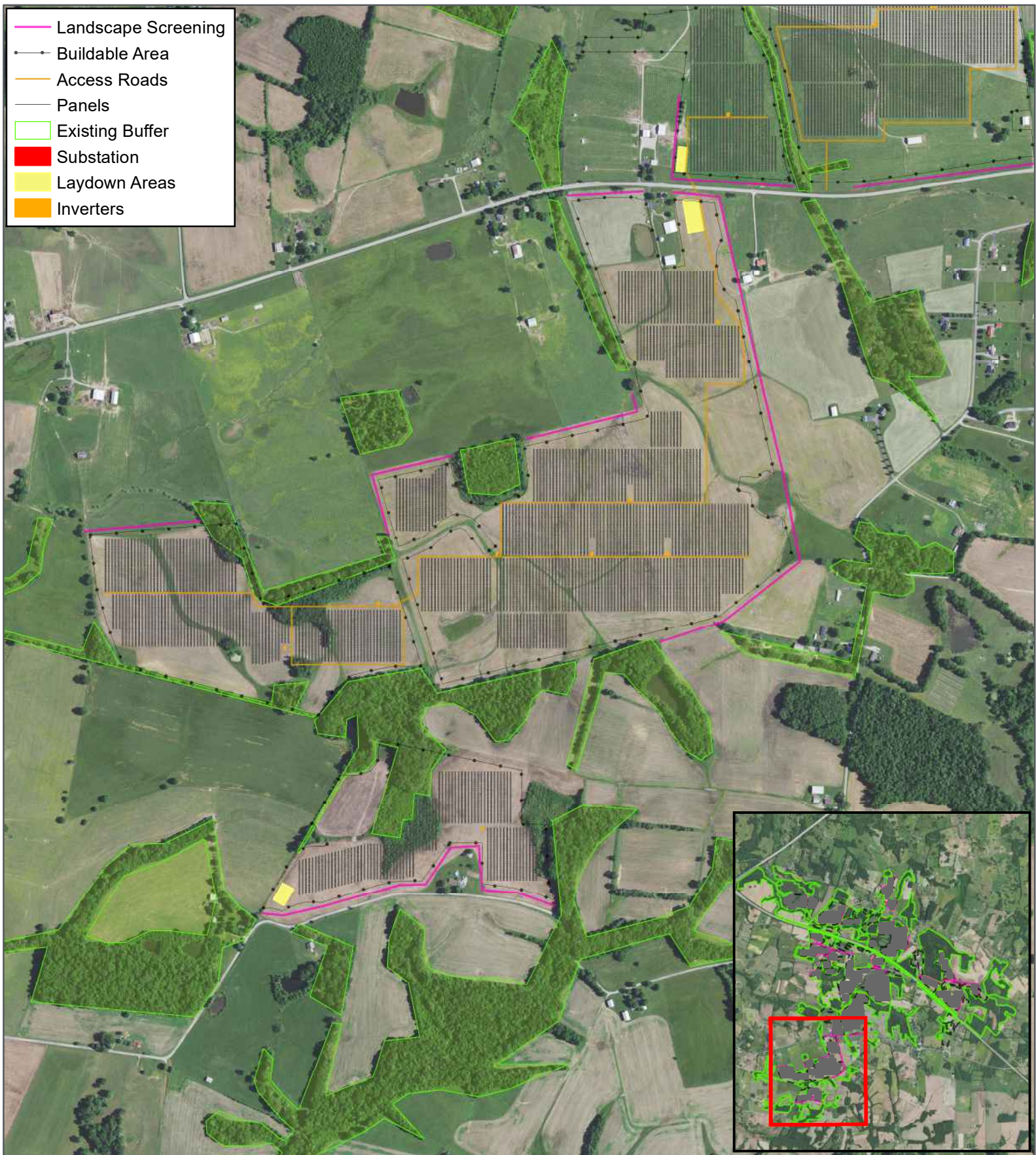
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