

**GIBSON CITY ENERGY CENTER SOLAR 2 GLARE HAZARD
ANALYSIS**



**Gibson City Energy Center Solar 2 Glare
Hazard Analysis**
Ford County, Illinois

March 21, 2024

Prepared for:

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GIBSON CITY ENERGY CENTER SOLAR 2 GLARE HAZARD ANALYSIS

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GIBSON CITY ENERGY CENTER SOLAR 2 GLARE HAZARD ANALYSIS

Executive Summary

Stantec Consulting Services Inc. (Stantec) utilized the web-based ForgeSolar glare hazard analysis program to analyze the potential for glare from the proposed Gibson City Energy Center Solar 2 Project (Project), a utility-scale solar-powered electric generation facility that will have a solar generating capacity of up to 135 megawatts-ac (MWac), located in Ford County, Illinois, and depicted in **Figure 1**. The Project will include photovoltaic (PV) solar panels mounted on a racking system to maximize solar energy capture and electric generation of the array. The Project area encompasses approximately 1,275 acres in a rural agricultural area located approximately 1.5 miles northwest of Gibson City.

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

GREEN - Low potential for temporary after-image.

YELLOW - Potential for temporary after-image.

RED - Potential for permanent eye damage.

Based on the solar array parameters provided and the current site design, no glare is predicted for pilots approaching the single airport and 2 approach paths located within 10 miles of the project site, or for helicopter pilots hovering over one helipad within 10 miles of the project at the Gibson Area Hospital helipad. Glare is also not predicted for the five road segments and 16 houses within a half-mile of the project and included in the analysis. These results assume a 9-foot panel height and a 60-degree resting angle.



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Abbreviations

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



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Glossary

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



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

Sources:

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

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

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



GIBSON CITY ENERGY CENTER SOLAR 2 GLARE HAZARD ANALYSIS

1.0 INTRODUCTION

On behalf of Archtop Solar II, LLC, Stantec utilized the web based ForgeSolar glare hazard analysis program to complete a glare analysis for the Gibson City Energy Center Solar 2 Project (the Project) to determine the potential for glint/glare from the photovoltaic (PV) solar panels to affect residents in the area and drivers passing through the vicinity of the array. The Project is located in a rural agricultural area of Ford County, northeast Illinois (**Figure 1**), located approximately 1.5 miles northwest of Gibson City.

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

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

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

The airport and helipad included in the analysis are shown in **Figure 3** below while arrays, routes, and structures are shown in **Figures 4-5**. In addition, due to program limitations on the number of subarrays that may be drawn per analysis, the site was divided into two analysis blocks. All houses, routes, and airports were analyzed with all analysis blocks. All features were analyzed using 9-ft above ground level (AGL) panel heights and using a 60-degree resting angle.



GIBSON CITY ENERGY CENTER SOLAR 2 GLARE HAZARD ANALYSIS

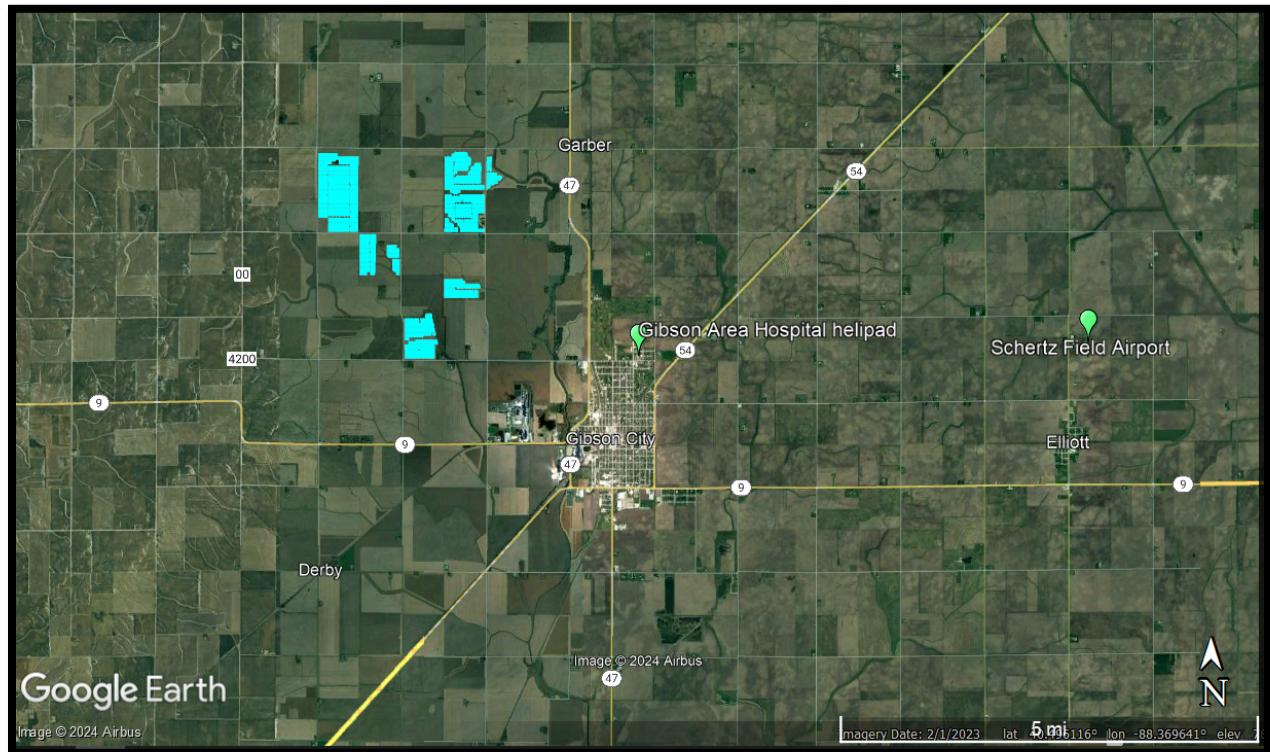


Figure 1. Project Location Map*

*Blue lines represent the PV array. Source: Google Earth Imagery



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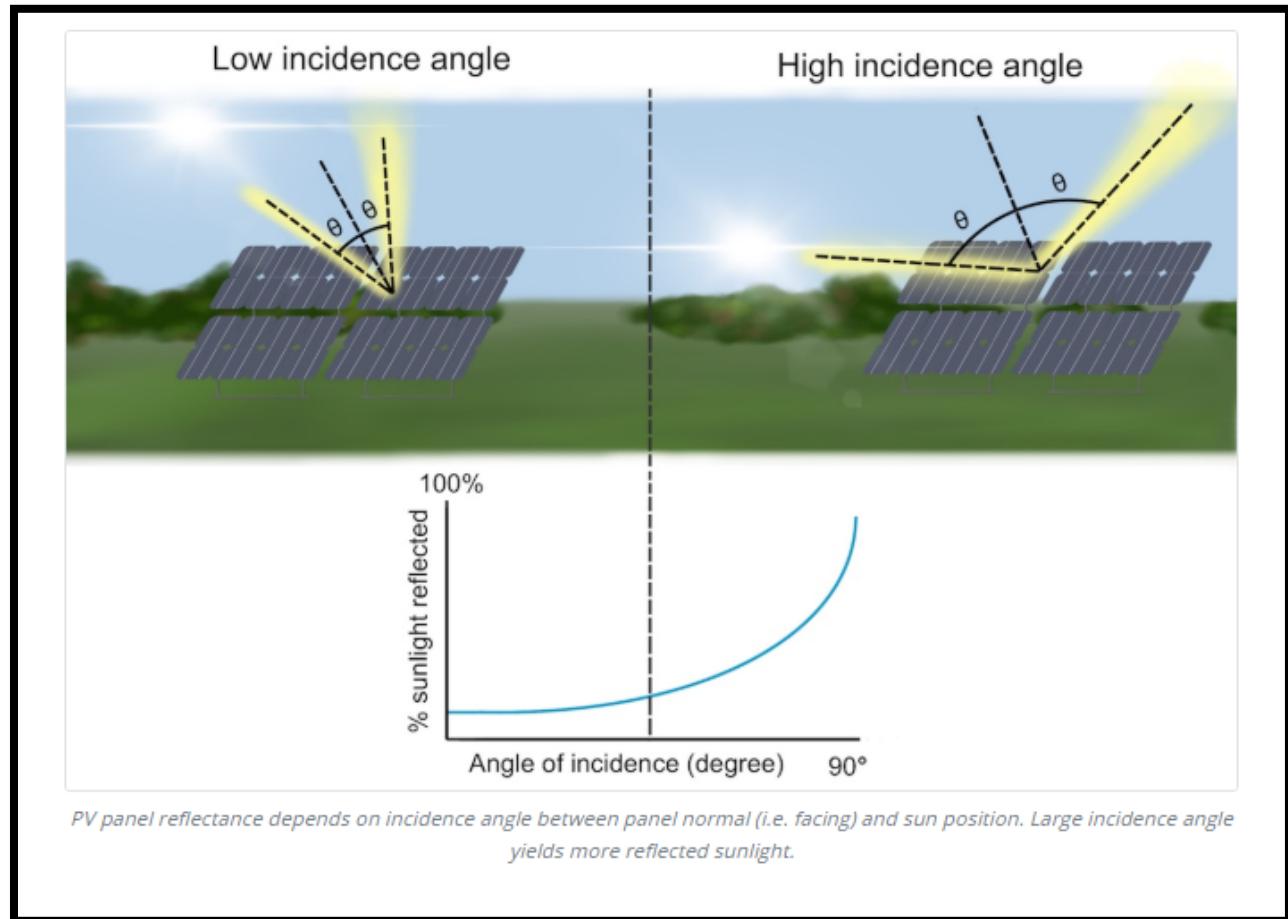


Figure 2. Reflectivity differences between low and high incidence angles.

Source: ForgeSolar.com 2023



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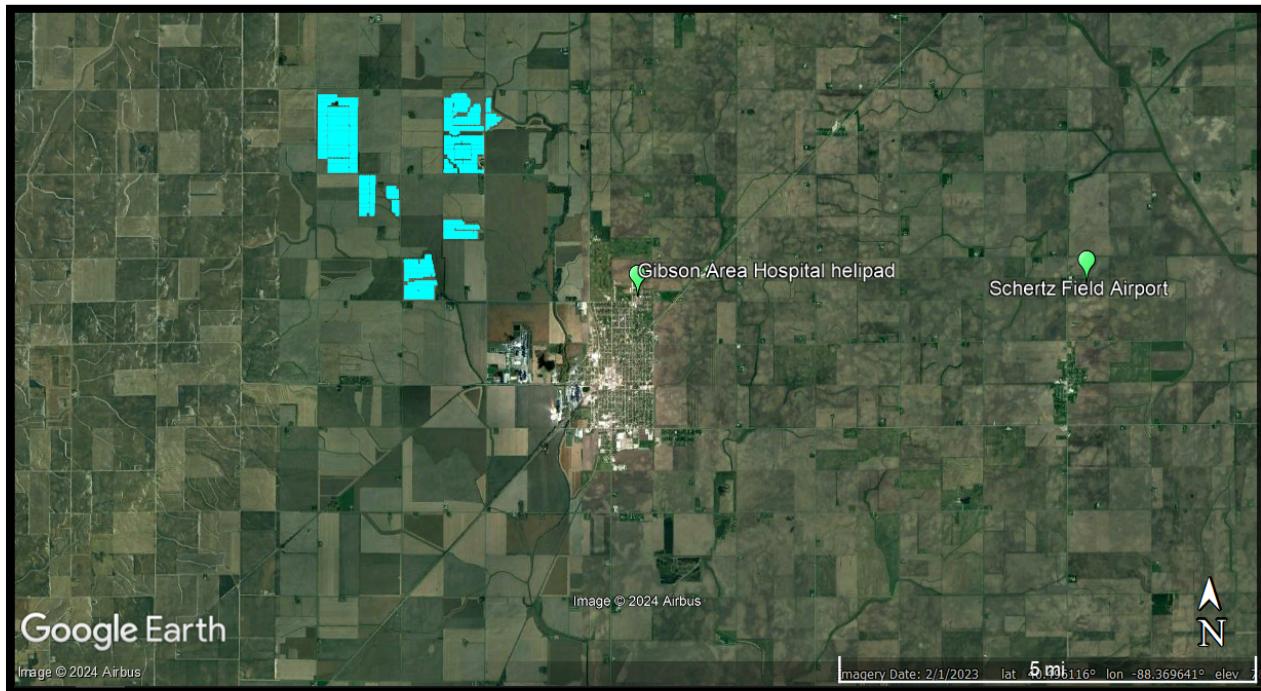


Figure 3. Analysis area and airports and helipads

Source: Google Earth Imagery.

2.0 DATA INPUT SUMMARY

The parameters used for the analyses are listed in **Table 1** below. “Default” indicates the default parameter value set by ForgeSolar and is generally considered a conservative value for the parameter. “Provided” parameters are Project specific information provided by the client.

2.1 SOLAR ARRAY

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

Table 1: Solar Panel Parameters Used for the Glare Analysis

Parameter	Value Used	Default or Provided
Axis tracking	Single axis	Provided
Tracking Axis Tilt (deg)	Calculated by ForgeSolar	Default
Tracking Axis Orientation (deg)	180.0	Provided
Tracking Axis Panel Offset (deg)	0.0	Default



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Parameter	Value Used	Default or Provided
Maximum Tracking Angle (deg)	60	Provided
Resting Angle (deg)	60	Provided
Rated Power (kW)	Not Used	NA
Vary reflectivity?	Yes	Default
Panel material	Smooth glass with Anti-Reflective Coating	Provided
Time zone offset	-6	Based on site location
Subtended angle of sun (mrad)	9.3	Default
Peak DNI (W/m ²)	1,000	Default
Ocular transmission coefficient	0.5	Default
Pupil diameter (m)	0.002	Default
Eye focal length (m)	0.017	Default
Time interval (min)	1	Default
Correlate slope error with surface type?	Yes	Default
Slope error (mrad)	8.43	Default
Ground Cover Ratio (%)	30.5	Provided

2.2 AIRPORT APPROACH PATHS AND AIR TRAFFIC CONTROL TOWER

Potential glare was analyzed for one airport, Schertz Field Airport, and one heliport located at the Gibson Area Hospital (Observation Point [OP] 1). There is no Air Traffic Control Tower (ATCT) associated with the airport and therefore impacts to ATCT staff are not anticipated at this time.

2.3 ROADWAYS AND PROPERTIES LOCATED ADJACENT TO THE SOLAR ARRAYS

This analysis included potential glare to vehicles travelling on five different roads (**Figures 4-5**), including: East 550 North, North 300 East, North 200 East, East 800 North, North 100 East, and East 700 North. The ForgeSolar program sets the default viewing angle of the array at 50 degrees from the driver's direct line of sight (when looking forward). The Federal Aviation Administration (FAA) has determined that glare beyond 50 degrees from the line of sight will have no impact on the viewer¹. Potential glare to drivers was evaluated for both passenger vehicles and semi-trucks, where the passenger vehicles were assumed to have a maximum viewing height of 5-ft AGL while the viewing height for drivers of semi-trucks was assumed to be a maximum of 9-ft AGL.

¹ Rogers, J. A., et al. (2015). Evaluation of Glare as a Hazard for General Aviation Pilots on Final Approach, Federal Aviation Administration (https://www.faa.gov/sites/faa.gov/files/data_research/research/med_humanfacs/oamtechreports/201512.pdf)



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Potential glare to viewers at 16 houses, shown as observation points (OPs) in **Figures 4-5**, in the vicinity of the Project was also analyzed at 16-ft AGL viewing heights. All structures and roadways were analyzed for 9-ft panel heights.



Figure 4. Block 1 Analysis area, structures and roadways*

*Turquoise lines indicate roads, blue polygons indicate PV arrays, and red pins indicate structures. Source: ForgeSolar, Google Earth Imagery.



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Figure 5. Block 2 Analysis area, structures and roadways*

*Turquoise lines indicate roads, blue polygons indicate PV arrays, and red pins indicate structures. Source: ForgeSolar, Google Earth Imagery.

3.0 GLARE ANALYSES RESULTS

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

GREEN - Low potential for temporary after-image.

YELLOW - Potential for temporary after-image.

RED - Potential for permanent eye damage.

3.1 AIRPORT APPROACH PATHS AND CONTROL TOWERS

Glare is not predicted for pilots approaching the 2 runways at the single airport or for helicopters hovering over the helipad included in the analysis.

3.2 ROADWAYS AND PROPERTIES LOCATED ADJACENT TO THE SOLAR ARRAYS

Glare is not predicted for the five roads included in this analysis. Glare is also not predicted for the 16 structures included in the analysis.



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4.0 CONCLUSIONS

Based on the solar array parameters provided and the current site design, no glare is predicted for pilots approaching the single airport and 2 approach paths located within 10 miles of the project site, or for helicopter pilots hovering over one helipad within 10 miles of the project at the Gibson Area Hospital helipad. Glare is also not predicted for the five road segments and 16 houses within a half-mile of the project and included in the analysis. These results assume a 9-foot panel height and a 60-degree resting angle.



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A.1 APPENDIX A FORGESOLAR REPORTS

Gibson City

Block 1 5ft vehicles

Created Mar 19, 2024

Updated Mar 20, 2024

Time-step 1 minute

Timezone offset UTC-6

Minimum sun altitude 0.0 deg

Site ID 114739.19769

Project type Advanced

Project status: active

Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)

Ocular transmission coefficient: 0.5

Pupil diameter: 0.002 m

Eye focal length: 0.017 m

Sun subtended angle: 9.3 mrad

PV Analysis Methodology: **Version 2**

Enhanced subtended angle calculation: **On**

Summary of Results

No glare predicted!

PV Name	Tilt deg	Orientation deg	Glare		Energy Produced kWh
			"Green" Glare min	"Yellow" Glare min	
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	-
119	SA tracking	SA tracking	0	0	-
120	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

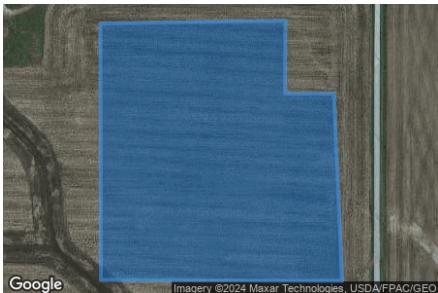
Total PV footprint area: 358.1 acres

Name: 101
Footprint area: 16.0 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.491065	-88.410529	781.15	9.00	790.15
2	40.490999	-88.405809	775.23	9.00	784.23
3	40.489563	-88.405819	776.21	9.00	785.21
4	40.489620	-88.410626	776.78	9.00	785.78

Name: 102
Footprint area: 12.4 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.498614	-88.426379	821.94	9.00	830.94
2	40.498638	-88.424330	815.29	9.00	824.29
3	40.498026	-88.424335	815.30	9.00	824.30
4	40.498026	-88.423794	811.83	9.00	820.83
5	40.496456	-88.423702	812.18	9.00	821.18
6	40.496464	-88.426374	806.98	9.00	815.98

Name: 103
Footprint area: 10.1 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.496350	-88.425296	808.37	9.00	817.37
2	40.494277	-88.425290	797.05	9.00	806.05
3	40.493437	-88.424260	791.23	9.00	800.23
4	40.493437	-88.423633	790.51	9.00	799.51
5	40.496374	-88.423692	810.03	9.00	819.03



Google

Imagery ©2024 Maxar Technologies, USDA/FPAC/GEO

Name: 104
Footprint area: 19.5 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

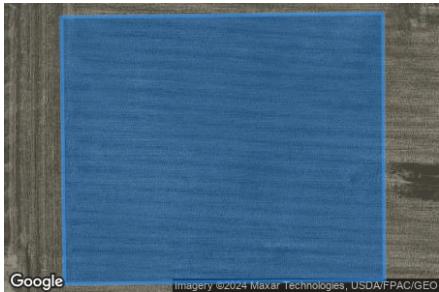
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.500481	-88.432569	809.42	9.00	818.42
2	40.500502	-88.428894	824.19	9.00	833.19
3	40.498197	-88.428958	829.38	9.00	838.38
4	40.498173	-88.432537	816.23	9.00	825.23



Google

Imagery ©2024 Maxar Technologies, USDA/FPAC/GEO

Name: 105
Footprint area: 18.6 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



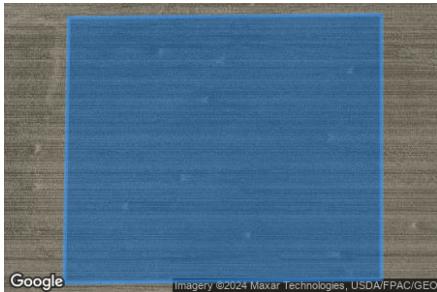
Name: 106
Footprint area: 20.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.498202	-88.428969	829.24	9.00	838.24
2	40.495946	-88.428953	822.36	9.00	831.36
3	40.495917	-88.432499	819.44	9.00	828.44
4	40.498169	-88.432531	816.13	9.00	825.13

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.495909	-88.432504	819.37	9.00	828.37
2	40.495938	-88.428958	822.40	9.00	831.40
3	40.493453	-88.428910	810.76	9.00	819.76
4	40.493384	-88.432542	809.94	9.00	818.94

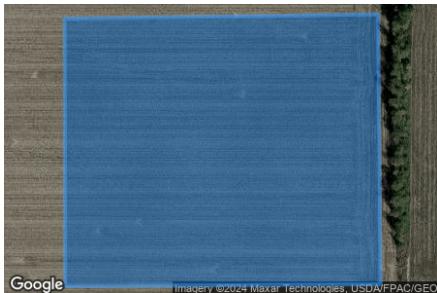
Name: 107
Footprint area: 18.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Google Imagery ©2024 Maxar Technologies, USDA/FPAC/GEO

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503109	-88.439907	812.66	9.00	821.66
2	40.503133	-88.436442	819.62	9.00	828.62
3	40.500898	-88.436442	816.99	9.00	825.99
4	40.500869	-88.439955	811.90	9.00	820.90

Name: 108
Footprint area: 18.3 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Google Imagery ©2024 Maxar Technologies, USDA/FPAC/GEO

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503133	-88.436453	819.57	9.00	828.57
2	40.503170	-88.432982	826.49	9.00	835.49
3	40.500906	-88.432955	814.91	9.00	823.91
4	40.500890	-88.436447	816.94	9.00	825.94

Name: 109
Footprint area: 22.6 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503143	-88.436442	819.63	9.00	828.63
2	40.504966	-88.436469	820.33	9.00	829.33
3	40.504852	-88.441925	816.77	9.00	825.77
4	40.503110	-88.441898	812.30	9.00	821.30



Google

Imagery ©2024 Airbus, Maxar Technologies, USDA/FPAC/GEO

Name: 110
Footprint area: 21.5 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503176	-88.432993	826.45	9.00	835.45
2	40.505860	-88.433095	821.06	9.00	830.06
3	40.505880	-88.436453	818.97	9.00	827.97
4	40.503147	-88.436453	819.59	9.00	828.59

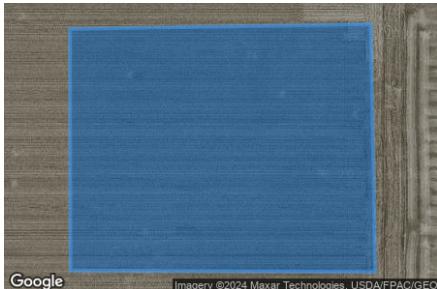


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Name: 111
Footprint area: 16.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.505864	-88.433100	821.08	9.00	830.08
2	40.507956	-88.433148	816.12	9.00	825.12
3	40.507915	-88.436480	821.40	9.00	830.40
4	40.505876	-88.436474	819.02	9.00	828.02



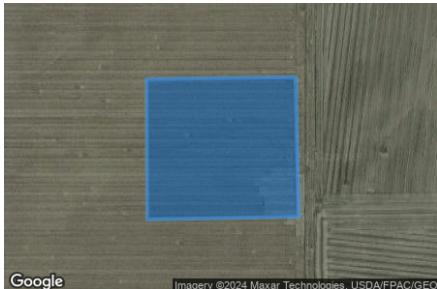
Name: 112
Footprint area: 25.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.482453	-88.418635	765.25	9.00	774.25
2	40.482490	-88.415137	757.64	9.00	766.64
3	40.482159	-88.415044	757.64	9.00	766.64
4	40.482159	-88.415044	757.64	9.00	766.64
5	40.482159	-88.415044	757.64	9.00	766.64
6	40.481429	-88.415100	759.42	9.00	768.42
7	40.481421	-88.415652	765.40	9.00	774.40
8	40.478989	-88.415647	776.45	9.00	785.45
9	40.478972	-88.418705	776.64	9.00	785.64



Name: 113
Footprint area: 18.3 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.507964	-88.433148	816.12	9.00	825.12
2	40.510322	-88.433218	817.37	9.00	826.37
3	40.510289	-88.436517	825.41	9.00	834.41
4	40.507919	-88.436501	821.54	9.00	830.54



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Name: 114
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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.482362	-88.422449	772.95	9.00	781.95
2	40.482387	-88.421333	769.78	9.00	778.78
3	40.482705	-88.421312	772.08	9.00	781.08
4	40.482725	-88.420400	767.62	9.00	776.62
5	40.485993	-88.420400	765.15	9.00	774.15
6	40.485977	-88.422460	764.24	9.00	773.24



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Name: 115
Footprint area: 28.4 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.482453	-88.418646	765.26	9.00	774.26
2	40.482449	-88.419917	766.14	9.00	775.14
3	40.482334	-88.419944	766.97	9.00	775.97
4	40.482334	-88.419944	766.97	9.00	775.97
5	40.482334	-88.419944	766.97	9.00	775.97
6	40.482298	-88.421336	768.63	9.00	777.63
7	40.482298	-88.421336	768.63	9.00	777.63
8	40.482298	-88.421336	768.63	9.00	777.63
9	40.482188	-88.421344	768.07	9.00	777.07
10	40.481926	-88.421366	769.65	9.00	778.65
11	40.481910	-88.422449	771.85	9.00	780.85
12	40.479013	-88.422513	796.91	9.00	805.91
13	40.478989	-88.418715	776.55	9.00	785.55

Name: 116
Footprint area: 13.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



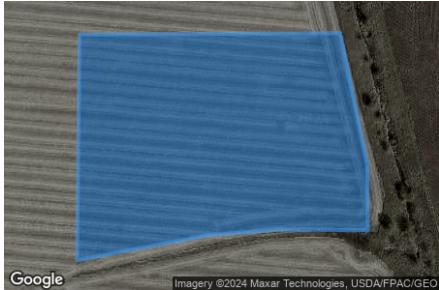
Google

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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.485993	-88.420405	765.16	9.00	774.16
2	40.486006	-88.418678	763.29	9.00	772.29
3	40.482729	-88.418721	763.96	9.00	772.96
4	40.482721	-88.420394	767.79	9.00	776.79

Name: 117
Footprint area: 12.5 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.482782	-88.418721	764.25	9.00	773.25
2	40.482995	-88.417272	762.18	9.00	771.18
3	40.483044	-88.416478	759.33	9.00	768.33
4	40.483035	-88.415502	755.45	9.00	764.45
5	40.483586	-88.415507	756.41	9.00	765.41
6	40.484700	-88.415808	757.34	9.00	766.34
7	40.484688	-88.418694	766.21	9.00	775.21



Name: 118
Footprint area: 10.9 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.484704	-88.415808	757.34	9.00	766.34
2	40.486067	-88.416232	760.24	9.00	769.24
3	40.486765	-88.416291	761.42	9.00	770.42
4	40.486781	-88.417728	765.65	9.00	774.65
5	40.486046	-88.417862	765.11	9.00	774.11
6	40.486006	-88.418672	763.27	9.00	772.27
7	40.484684	-88.418699	766.21	9.00	775.21



Name: 119
Footprint area: 22.8 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.492958	-88.413480	781.47	9.00	790.47
2	40.492941	-88.410529	778.25	9.00	787.25
3	40.489620	-88.410626	776.78	9.00	785.78
4	40.489596	-88.413533	780.11	9.00	789.11



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Name: 120
Footprint area: 15.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.492941	-88.410529	778.25	9.00	787.25
2	40.492941	-88.409478	774.45	9.00	783.45
3	40.492623	-88.409521	775.59	9.00	784.59
4	40.492631	-88.408952	772.44	9.00	781.44
5	40.492150	-88.408963	774.04	9.00	783.04
6	40.492142	-88.405594	768.70	9.00	777.70
7	40.491766	-88.405358	769.54	9.00	778.54
8	40.491008	-88.405347	771.82	9.00	780.82
9	40.491073	-88.410561	781.25	9.00	790.25



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2-Mile Flight Path Receptor(s)

Name: Schertz Field Airport southbound

Description:

Threshold height : 50 ft

Direction: 180.0 deg

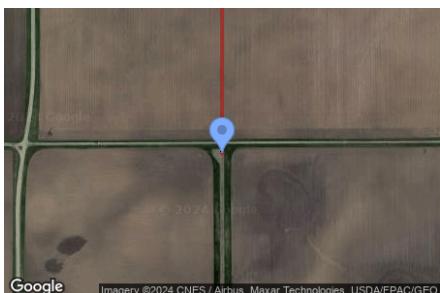
Glide slope: 3.0 deg

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	40.486433	-88.267580	744.71	50.00	794.71
2-mile point	40.515345	-88.267580	742.98	605.16	1348.14



Name: Schertz Field northbound

Description:

Threshold height : 50 ft

Direction: 0.0 deg

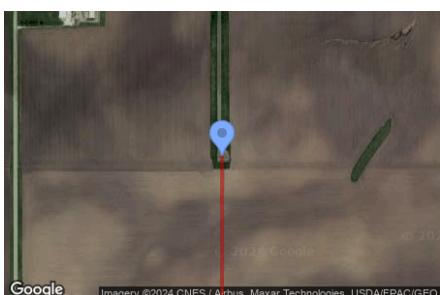
Glide slope: 3.0 deg

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	40.479521	-88.267516	755.12	50.00	805.12
2-mile point	40.450608	-88.267516	781.20	577.35	1358.55



Route Receptor(s)

Name: East 550 North
Route type: Two-way
View angle: 50.0 deg



Name: East 800 North Road
Route type: Two-way
View angle: 50.0 deg



Name: North 100 East 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	40.478881	-88.430075	802.70	5.00	807.70
2	40.478864	-88.422415	796.89	5.00	801.89
3	40.478832	-88.417211	777.89	5.00	782.89
4	40.478840	-88.410666	757.38	5.00	762.38
5	40.478824	-88.405356	756.97	5.00	761.97
6	40.478807	-88.403575	754.18	5.00	759.18

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.515319	-88.442460	841.82	5.00	846.82
2	40.515303	-88.435014	827.45	5.00	832.45
3	40.515287	-88.427568	818.08	5.00	823.08
4	40.515222	-88.420873	806.13	5.00	811.13

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.515287	-88.442374	841.14	5.00	846.14
2	40.509463	-88.442374	828.54	5.00	833.54
3	40.504177	-88.442331	813.65	5.00	818.65
4	40.500228	-88.442288	815.92	5.00	820.92
5	40.494060	-88.442266	804.20	5.00	809.20
6	40.487141	-88.442224	799.78	5.00	804.78
7	40.486391	-88.442245	797.66	5.00	802.66
8	40.485934	-88.441751	794.52	5.00	799.52
9	40.485101	-88.441773	801.35	5.00	806.35

Name: North 200 East Road
Route type Two-way
View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.478899	-88.422740	798.77	5.00	803.77
2	40.481911	-88.422676	773.31	5.00	778.31
3	40.484383	-88.422633	777.78	5.00	782.78
4	40.485167	-88.422643	771.30	5.00	776.30
5	40.485876	-88.422858	768.17	5.00	773.17
6	40.486929	-88.423276	768.97	5.00	773.97
7	40.487525	-88.423298	771.90	5.00	776.90
8	40.488683	-88.423287	777.12	5.00	782.12
9	40.492233	-88.423309	788.19	5.00	793.19
10	40.495717	-88.423287	802.60	5.00	807.60
11	40.499796	-88.423298	822.59	5.00	827.59
12	40.500824	-88.423244	821.70	5.00	826.70
13	40.503940	-88.423233	819.02	5.00	824.02
14	40.508060	-88.423223	818.30	5.00	823.30
15	40.512456	-88.423212	817.69	5.00	822.69

Name: North 300 East Road
Route type Two-way
View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.478873	-88.403682	754.10	5.00	759.10
2	40.482879	-88.403650	754.80	5.00	759.80
3	40.485230	-88.403703	760.15	5.00	765.15
4	40.486274	-88.404240	763.06	5.00	768.06
5	40.487457	-88.404251	767.80	5.00	772.80
6	40.491366	-88.404218	767.47	5.00	772.47
7	40.495445	-88.404229	779.25	5.00	784.25
8	40.498219	-88.404197	786.42	5.00	791.42

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	40.479661	-88.369477	776.79	500.00	1276.79
OP 2	40.502410	-88.394621	783.09	16.00	799.09
OP 3	40.508849	-88.387315	774.14	16.00	790.14
OP 4	40.514969	-88.382009	806.01	16.00	822.01
OP 5	40.516414	-88.382417	813.20	16.00	829.20
OP 6	40.514979	-88.400146	795.02	16.00	811.02
OP 7	40.517589	-88.405023	792.59	16.00	808.59
OP 8	40.502500	-88.404771	801.35	16.00	817.35
OP 9	40.499792	-88.404607	797.01	16.00	813.01
OP 10	40.490265	-88.404832	778.60	16.00	794.60
OP 11	40.501014	-88.421387	828.97	16.00	844.97
OP 12	40.500390	-88.418522	822.08	16.00	838.08
OP 13	40.498889	-88.427508	837.20	16.00	853.20
OP 14	40.510714	-88.420744	821.60	16.00	837.60
OP 15	40.480879	-88.408303	763.95	16.00	779.95
OP 16	40.479145	-88.414703	779.06	16.00	795.06
OP 17	40.478255	-88.420850	794.07	16.00	810.07

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
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	-	-
119	SA tracking	SA tracking	0	0	-	-
120	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: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

102 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

103 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

104 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

105 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

106 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

107 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

108 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

109 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

110 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

111 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

113 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

114 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

115 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

116 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

117 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

118 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

119 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

120 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East 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, non-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.

Gibson City

Block 1 9ft vehicles

Created Mar 20, 2024

Updated Mar 20, 2024

Time-step 1 minute

Timezone offset UTC-6

Minimum sun altitude 0.0 deg

Site ID 114854.19769

Project type Advanced

Project status: active

Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)

Ocular transmission coefficient: 0.5

Pupil diameter: 0.002 m

Eye focal length: 0.017 m

Sun subtended angle: 9.3 mrad

PV Analysis Methodology: **Version 2**

Enhanced subtended angle calculation: **On**

Summary of Results

No glare predicted!

PV Name	Tilt deg	Orientation deg	"Green" Glare min		"Yellow" Glare min		Energy Produced 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		-
119	SA tracking	SA tracking	0		0		-
120	SA tracking	SA tracking	0		0		-

Component Data

PV Array(s)

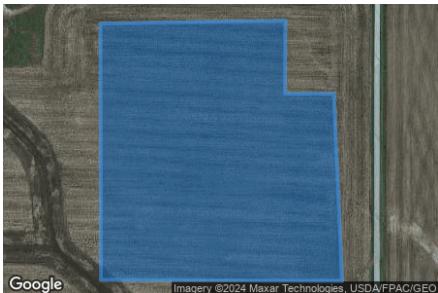
Total PV footprint area: 358.1 acres

Name: 101
Footprint area: 16.0 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.491065	-88.410529	781.15	9.00	790.15
2	40.490999	-88.405809	775.23	9.00	784.23
3	40.489563	-88.405819	776.21	9.00	785.21
4	40.489620	-88.410626	776.78	9.00	785.78

Name: 102
Footprint area: 12.4 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.498614	-88.426379	821.94	9.00	830.94
2	40.498638	-88.424330	815.29	9.00	824.29
3	40.498026	-88.424335	815.30	9.00	824.30
4	40.498026	-88.423794	811.83	9.00	820.83
5	40.496456	-88.423702	812.18	9.00	821.18
6	40.496464	-88.426374	806.98	9.00	815.98

Name: 103
Footprint area: 10.1 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.496350	-88.425296	808.37	9.00	817.37
2	40.494277	-88.425290	797.05	9.00	806.05
3	40.493437	-88.424260	791.23	9.00	800.23
4	40.493437	-88.423633	790.51	9.00	799.51
5	40.496374	-88.423692	810.03	9.00	819.03

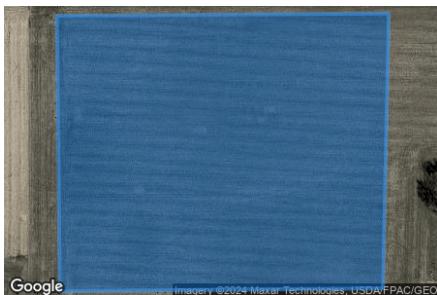


Google

Imagery ©2024 Maxar Technologies, USDA/FPAC/GEO

Name: 104
Footprint area: 19.5 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

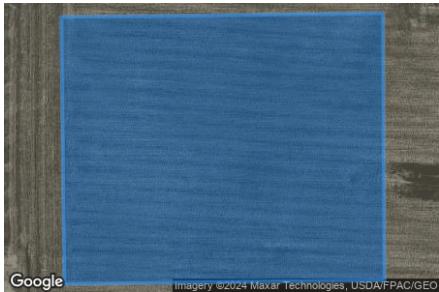
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.500481	-88.432569	809.42	9.00	818.42
2	40.500502	-88.428894	824.19	9.00	833.19
3	40.498197	-88.428958	829.38	9.00	838.38
4	40.498173	-88.432537	816.23	9.00	825.23



Google

Imagery ©2024 Maxar Technologies, USDA/FPAC/GEO

Name: 105
Footprint area: 18.6 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



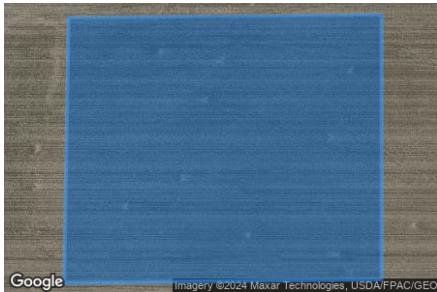
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.498202	-88.428969	829.24	9.00	838.24
2	40.495946	-88.428953	822.36	9.00	831.36
3	40.495917	-88.432499	819.44	9.00	828.44
4	40.498169	-88.432531	816.13	9.00	825.13

Name: 106
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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.495909	-88.432504	819.37	9.00	828.37
2	40.495938	-88.428958	822.40	9.00	831.40
3	40.493453	-88.428910	810.76	9.00	819.76
4	40.493384	-88.432542	809.94	9.00	818.94

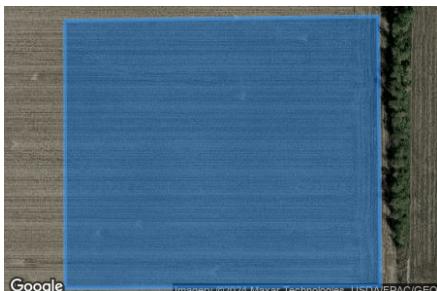
Name: 107
Footprint area: 18.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503109	-88.439907	812.66	9.00	821.66
2	40.503133	-88.436442	819.62	9.00	828.62
3	40.500898	-88.436442	816.99	9.00	825.99
4	40.500869	-88.439955	811.90	9.00	820.90

Name: 108
Footprint area: 18.3 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503133	-88.436453	819.57	9.00	828.57
2	40.503170	-88.432982	826.49	9.00	835.49
3	40.500906	-88.432955	814.91	9.00	823.91
4	40.500890	-88.436447	816.94	9.00	825.94

Name: 109
Footprint area: 22.6 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503143	-88.436442	819.63	9.00	828.63
2	40.504966	-88.436469	820.33	9.00	829.33
3	40.504852	-88.441925	816.77	9.00	825.77
4	40.503110	-88.441898	812.30	9.00	821.30



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Name: 110
Footprint area: 21.5 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503176	-88.432993	826.45	9.00	835.45
2	40.505860	-88.433095	821.06	9.00	830.06
3	40.505880	-88.436453	818.97	9.00	827.97
4	40.503147	-88.436453	819.59	9.00	828.59

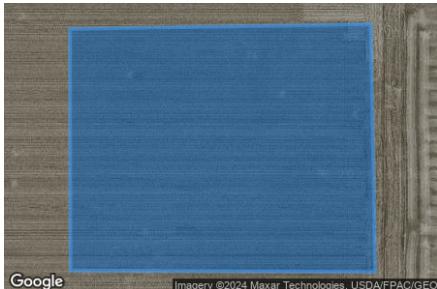


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Name: 111
Footprint area: 16.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.505864	-88.433100	821.08	9.00	830.08
2	40.507956	-88.433148	816.12	9.00	825.12
3	40.507915	-88.436480	821.40	9.00	830.40
4	40.505876	-88.436474	819.02	9.00	828.02



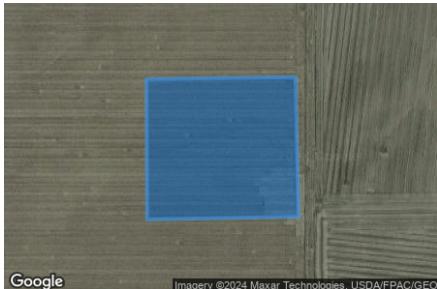
Name: 112
Footprint area: 25.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.482453	-88.418635	765.25	9.00	774.25
2	40.482490	-88.415137	757.64	9.00	766.64
3	40.482159	-88.415044	757.64	9.00	766.64
4	40.482159	-88.415044	757.64	9.00	766.64
5	40.482159	-88.415044	757.64	9.00	766.64
6	40.481429	-88.415100	759.42	9.00	768.42
7	40.481421	-88.415652	765.40	9.00	774.40
8	40.478989	-88.415647	776.45	9.00	785.45
9	40.478972	-88.418705	776.64	9.00	785.64



Name: 113
Footprint area: 18.3 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.507964	-88.433148	816.12	9.00	825.12
2	40.510322	-88.433218	817.37	9.00	826.37
3	40.510289	-88.436517	825.41	9.00	834.41
4	40.507919	-88.436501	821.54	9.00	830.54



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Name: 114
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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.482362	-88.422449	772.95	9.00	781.95
2	40.482387	-88.421333	769.78	9.00	778.78
3	40.482705	-88.421312	772.08	9.00	781.08
4	40.482725	-88.420400	767.62	9.00	776.62
5	40.485993	-88.420400	765.15	9.00	774.15
6	40.485977	-88.422460	764.24	9.00	773.24



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Name: 115
Footprint area: 28.4 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.482453	-88.418646	765.26	9.00	774.26
2	40.482449	-88.419917	766.14	9.00	775.14
3	40.482334	-88.419944	766.97	9.00	775.97
4	40.482334	-88.419944	766.97	9.00	775.97
5	40.482334	-88.419944	766.97	9.00	775.97
6	40.482298	-88.421336	768.63	9.00	777.63
7	40.482298	-88.421336	768.63	9.00	777.63
8	40.482298	-88.421336	768.63	9.00	777.63
9	40.482188	-88.421344	768.07	9.00	777.07
10	40.481926	-88.421366	769.65	9.00	778.65
11	40.481910	-88.422449	771.85	9.00	780.85
12	40.479013	-88.422513	796.91	9.00	805.91
13	40.478989	-88.418715	776.55	9.00	785.55

Name: 116
Footprint area: 13.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



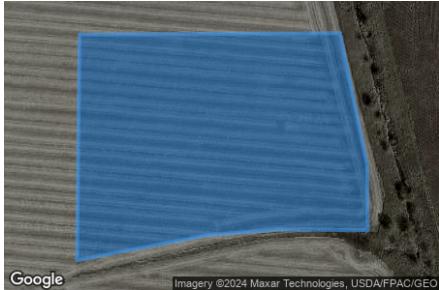
Google

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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.485993	-88.420405	765.16	9.00	774.16
2	40.486006	-88.418678	763.29	9.00	772.29
3	40.482729	-88.418721	763.96	9.00	772.96
4	40.482721	-88.420394	767.79	9.00	776.79

Name: 117
Footprint area: 12.5 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.482782	-88.418721	764.25	9.00	773.25
2	40.482995	-88.417272	762.18	9.00	771.18
3	40.483044	-88.416478	759.33	9.00	768.33
4	40.483035	-88.415502	755.45	9.00	764.45
5	40.483586	-88.415507	756.41	9.00	765.41
6	40.484700	-88.415808	757.34	9.00	766.34
7	40.484688	-88.418694	766.21	9.00	775.21



Name: 118
Footprint area: 10.9 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.484704	-88.415808	757.34	9.00	766.34
2	40.486067	-88.416232	760.24	9.00	769.24
3	40.486765	-88.416291	761.42	9.00	770.42
4	40.486781	-88.417728	765.65	9.00	774.65
5	40.486046	-88.417862	765.11	9.00	774.11
6	40.486006	-88.418672	763.27	9.00	772.27
7	40.484684	-88.418699	766.21	9.00	775.21



Name: 119
Footprint area: 22.8 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.492958	-88.413480	781.47	9.00	790.47
2	40.492941	-88.410529	778.25	9.00	787.25
3	40.489620	-88.410626	776.78	9.00	785.78
4	40.489596	-88.413533	780.11	9.00	789.11



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Name: 120
Footprint area: 15.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.492941	-88.410529	778.25	9.00	787.25
2	40.492941	-88.409478	774.45	9.00	783.45
3	40.492623	-88.409521	775.59	9.00	784.59
4	40.492631	-88.408952	772.44	9.00	781.44
5	40.492150	-88.408963	774.04	9.00	783.04
6	40.492142	-88.405594	768.70	9.00	777.70
7	40.491766	-88.405358	769.54	9.00	778.54
8	40.491008	-88.405347	771.82	9.00	780.82
9	40.491073	-88.410561	781.25	9.00	790.25



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2-Mile Flight Path Receptor(s)

Name: Schertz Field Airport southbound

Description:

Threshold height : 50 ft

Direction: 180.0 deg

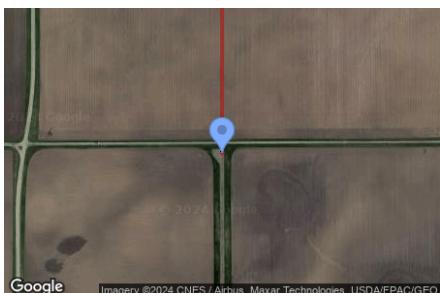
Glide slope: 3.0 deg

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	40.486433	-88.267580	744.71	50.00	794.71
2-mile point	40.515345	-88.267580	742.98	605.16	1348.14



Name: Schertz Field northbound

Description:

Threshold height : 50 ft

Direction: 0.0 deg

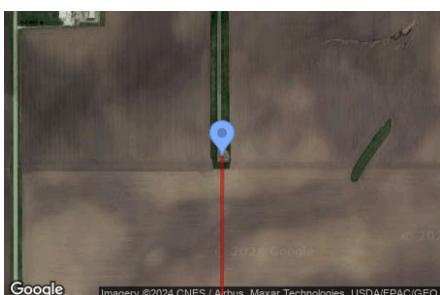
Glide slope: 3.0 deg

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	40.479521	-88.267516	755.12	50.00	805.12
2-mile point	40.450608	-88.267516	781.20	577.35	1358.55



Route Receptor(s)

Name: East 550 North
Route type: Two-way
View angle: 50.0 deg



Name: East 800 North Road
Route type: Two-way
View angle: 50.0 deg



Name: North 100 East 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	40.478881	-88.430075	802.70	9.00	811.70
2	40.478864	-88.422415	796.89	9.00	805.89
3	40.478832	-88.417211	777.89	9.00	786.89
4	40.478840	-88.410666	757.38	9.00	766.38
5	40.478824	-88.405356	756.97	9.00	765.97
6	40.478807	-88.403575	754.18	9.00	763.18

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.515319	-88.442460	841.82	9.00	850.82
2	40.515303	-88.435014	827.45	9.00	836.45
3	40.515287	-88.427568	818.08	9.00	827.08
4	40.515222	-88.420873	806.13	9.00	815.13

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.515287	-88.442374	841.14	9.00	850.14
2	40.509463	-88.442374	828.54	9.00	837.54
3	40.504177	-88.442331	813.65	9.00	822.65
4	40.500228	-88.442288	815.92	9.00	824.92
5	40.494060	-88.442266	804.20	9.00	813.20
6	40.487141	-88.442224	799.78	9.00	808.78
7	40.486391	-88.442245	797.66	9.00	806.66
8	40.485934	-88.441751	794.52	9.00	803.52
9	40.485101	-88.441773	801.35	9.00	810.35

Name: North 200 East Road
Route type Two-way
View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.478899	-88.422740	798.77	9.00	807.77
2	40.481911	-88.422676	773.31	9.00	782.31
3	40.484383	-88.422633	777.78	9.00	786.78
4	40.485167	-88.422643	771.30	9.00	780.30
5	40.485876	-88.422858	768.17	9.00	777.17
6	40.486929	-88.423276	768.97	9.00	777.97
7	40.487525	-88.423298	771.90	9.00	780.90
8	40.488683	-88.423287	777.12	9.00	786.12
9	40.492233	-88.423309	788.19	9.00	797.19
10	40.495717	-88.423287	802.60	9.00	811.60
11	40.499796	-88.423298	822.59	9.00	831.59
12	40.500824	-88.423244	821.70	9.00	830.70
13	40.503940	-88.423233	819.02	9.00	828.02
14	40.508060	-88.423223	818.30	9.00	827.30
15	40.512456	-88.423212	817.69	9.00	826.69

Name: North 300 East Road
Route type Two-way
View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.478873	-88.403682	754.10	9.00	763.10
2	40.482879	-88.403650	754.80	9.00	763.80
3	40.485230	-88.403703	760.15	9.00	769.15
4	40.486274	-88.404240	763.06	9.00	772.06
5	40.487457	-88.404251	767.80	9.00	776.80
6	40.491366	-88.404218	767.47	9.00	776.47
7	40.495445	-88.404229	779.25	9.00	788.25
8	40.498219	-88.404197	786.42	9.00	795.42

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	40.479661	-88.369477	776.79	500.00	1276.79
OP 2	40.502410	-88.394621	783.09	16.00	799.09
OP 3	40.508849	-88.387315	774.14	16.00	790.14
OP 4	40.514969	-88.382009	806.01	16.00	822.01
OP 5	40.516414	-88.382417	813.20	16.00	829.20
OP 6	40.514979	-88.400146	795.02	16.00	811.02
OP 7	40.517589	-88.405023	792.59	16.00	808.59
OP 8	40.502500	-88.404771	801.35	16.00	817.35
OP 9	40.499792	-88.404607	797.01	16.00	813.01
OP 10	40.490265	-88.404832	778.60	16.00	794.60
OP 11	40.501014	-88.421387	828.97	16.00	844.97
OP 12	40.500390	-88.418522	822.08	16.00	838.08
OP 13	40.498889	-88.427508	837.20	16.00	853.20
OP 14	40.510714	-88.420744	821.60	16.00	837.60
OP 15	40.480879	-88.408303	763.95	16.00	779.95
OP 16	40.479145	-88.414703	779.06	16.00	795.06
OP 17	40.478255	-88.420850	794.07	16.00	810.07

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
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	-	-
119	SA tracking	SA tracking	0	0	-	-
120	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: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

102 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

103 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

104 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

105 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

106 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

107 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

108 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

109 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

110 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

111 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

113 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

114 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

115 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

116 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

117 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

118 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

119 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

120 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 550 North	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East 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, non-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.

Gibson City

Block 2 5ft vehicles

Created Mar 20, 2024

Updated Mar 20, 2024

Time-step 1 minute

Timezone offset UTC-6

Minimum sun altitude 0.0 deg

Site ID 114865.19769

Project type Advanced

Project status: active

Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)

Ocular transmission coefficient: 0.5

Pupil diameter: 0.002 m

Eye focal length: 0.017 m

Sun subtended angle: 9.3 mrad

PV Analysis Methodology: **Version 2**

Enhanced subtended angle calculation: **On**

Summary of Results

No glare predicted!

PV Name	Tilt deg	Orientation deg	Glare		Energy Produced kWh
			"Green" Glare min	"Yellow" Glare min	
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	-
220	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 399.0 acres

Name: 201
Footprint area: 23.2 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.504885	-88.441943	816.87	9.00	825.87
2	40.504967	-88.436472	820.33	9.00	829.33
3	40.506745	-88.436450	823.75	9.00	832.75
4	40.506745	-88.441943	818.94	9.00	827.94



Google

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Name: 202
Footprint area: 22.2 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.506761	-88.441943	819.06	9.00	828.06
2	40.506794	-88.436472	823.73	9.00	832.73
3	40.508540	-88.436557	818.32	9.00	827.32
4	40.508540	-88.441922	828.75	9.00	837.75

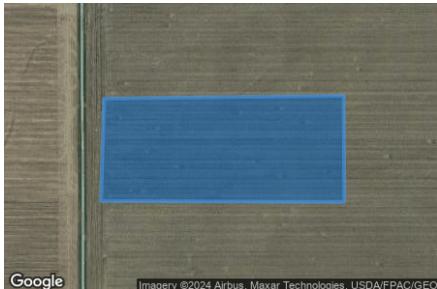


Google

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Name: 203
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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.508589	-88.441943	828.65	9.00	837.65
2	40.508572	-88.436557	818.50	9.00	827.50
3	40.510367	-88.436568	826.41	9.00	835.41
4	40.510318	-88.441879	830.85	9.00	839.85

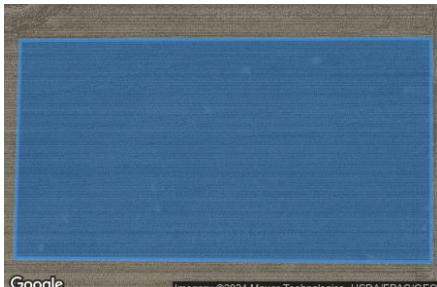


Google

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Name: 204
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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510367	-88.433232	817.65	9.00	826.65
2	40.512243	-88.433232	819.02	9.00	828.02
3	40.512227	-88.437781	830.68	9.00	839.68
4	40.510400	-88.437845	828.46	9.00	837.46

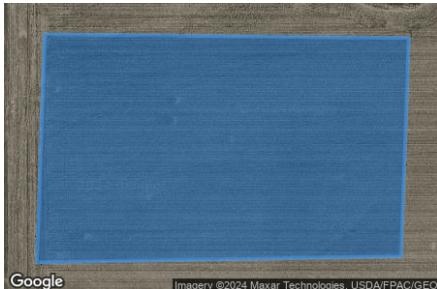


Google

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Name: 205
Footprint area: 17.7 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510351	-88.441943	830.73	9.00	839.73
2	40.510400	-88.437909	828.48	9.00	837.48
3	40.512243	-88.437823	830.37	9.00	839.37
4	40.512276	-88.441857	825.79	9.00	834.79

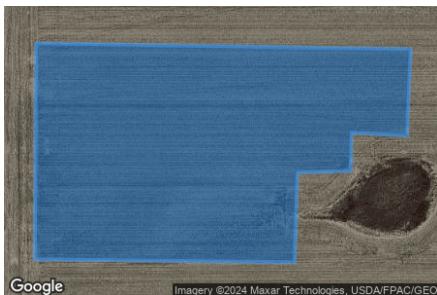


Google

Imagery ©2024 Maxar Technologies, USDA/FPAC/GEO

Name: 206
Footprint area: 14.6 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.512292	-88.441868	825.70	9.00	834.70
2	40.514103	-88.441857	829.61	9.00	838.61
3	40.514054	-88.437705	828.52	9.00	837.52
4	40.513328	-88.437748	828.39	9.00	837.39
5	40.513352	-88.438360	829.59	9.00	838.59
6	40.513034	-88.438371	827.85	9.00	836.85
7	40.513018	-88.438961	828.89	9.00	837.89
8	40.512268	-88.438993	828.90	9.00	837.90

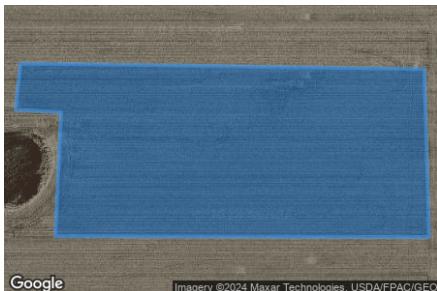


Google

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Name: 207
Footprint area: 14.1 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.513719	-88.437727	828.23	9.00	837.23
2	40.513670	-88.433253	819.03	9.00	828.03
3	40.512251	-88.433199	818.64	9.00	827.64
4	40.512259	-88.437341	831.70	9.00	840.70
5	40.513303	-88.437276	828.71	9.00	837.71
6	40.513328	-88.437781	828.39	9.00	837.39



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Name: 208
Footprint area: 20.6 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

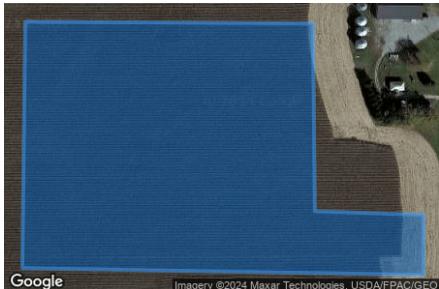
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.513858	-88.403813	782.34	9.00	791.34
2	40.513866	-88.402815	777.67	9.00	786.67
3	40.511174	-88.402837	790.26	9.00	799.26
4	40.511174	-88.401689	778.68	9.00	787.68
5	40.510514	-88.401699	784.10	9.00	793.10
6	40.510538	-88.400423	776.96	9.00	785.96
7	40.510147	-88.400433	779.48	9.00	788.48
8	40.510139	-88.400745	780.13	9.00	789.13
9	40.509935	-88.400723	780.17	9.00	789.17
10	40.509910	-88.401592	787.02	9.00	796.02
11	40.509347	-88.401592	782.98	9.00	791.98
12	40.509200	-88.401603	781.83	9.00	790.83
13	40.509168	-88.402611	785.02	9.00	794.02
14	40.508801	-88.402601	782.34	9.00	791.34
15	40.508776	-88.403223	786.46	9.00	795.46
16	40.508213	-88.403212	782.97	9.00	791.97
17	40.508205	-88.403963	787.35	9.00	796.35



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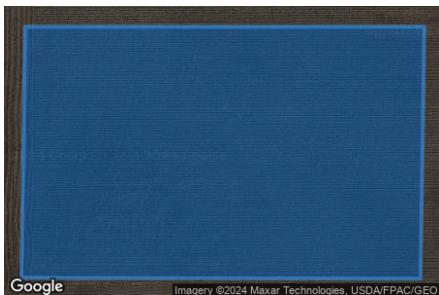
Name: 209
Footprint area: 17.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.500920	-88.404510	792.23	9.00	801.23
2	40.501426	-88.404510	793.08	9.00	802.08
3	40.501459	-88.405712	796.51	9.00	805.51
4	40.503042	-88.405734	804.75	9.00	813.75
5	40.503058	-88.408920	804.38	9.00	813.38
6	40.500978	-88.408952	794.16	9.00	803.16



Name: 210
Footprint area: 21.7 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.500961	-88.408974	794.17	9.00	803.17
2	40.500969	-88.413394	806.07	9.00	815.07
3	40.503074	-88.413351	796.13	9.00	805.13
4	40.503074	-88.408931	804.72	9.00	813.72



Name: 211
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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.511305	-88.411001	804.58	9.00	813.58
2	40.511272	-88.408373	795.69	9.00	804.69
3	40.511688	-88.408405	795.29	9.00	804.29
4	40.511664	-88.405058	796.60	9.00	805.60
5	40.510326	-88.405101	798.79	9.00	807.79
6	40.510359	-88.411066	805.67	9.00	814.67



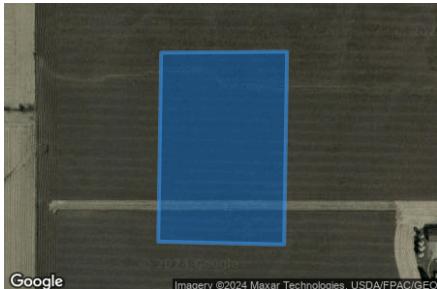
Name: 212
Footprint area: 24.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503042	-88.405744	804.76	9.00	813.76
2	40.504086	-88.405744	810.63	9.00	819.63
3	40.504094	-88.404553	803.57	9.00	812.57
4	40.506264	-88.404532	798.82	9.00	807.82
5	40.506288	-88.408147	804.89	9.00	813.89
6	40.503058	-88.408201	800.00	9.00	809.00



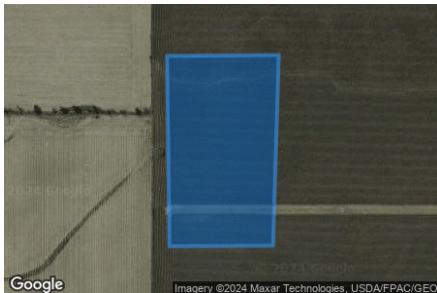
Name: 213
Footprint area: 20.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.506296	-88.408169	804.70	9.00	813.70
2	40.506280	-88.410958	803.37	9.00	812.37
3	40.503090	-88.411023	796.28	9.00	805.28
4	40.503042	-88.408233	799.75	9.00	808.75



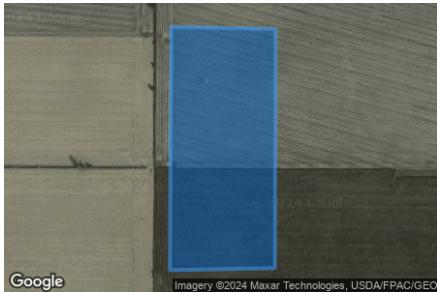
Name: 214
Footprint area: 17.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503090	-88.413351	796.09	9.00	805.09
2	40.503099	-88.411055	796.23	9.00	805.23
3	40.506296	-88.410926	803.26	9.00	812.26
4	40.506280	-88.413405	804.66	9.00	813.66



Name: 215
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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

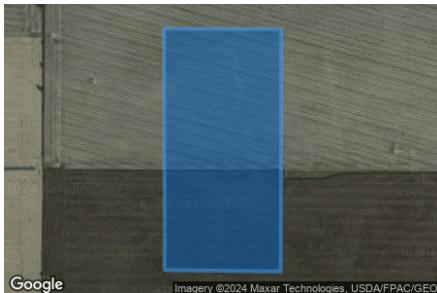
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.506280	-88.413383	804.34	9.00	813.34
2	40.510383	-88.413351	809.89	9.00	818.89
3	40.510351	-88.411044	805.65	9.00	814.65
4	40.506313	-88.411055	801.81	9.00	810.81



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Name: 216
Footprint area: 24.4 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

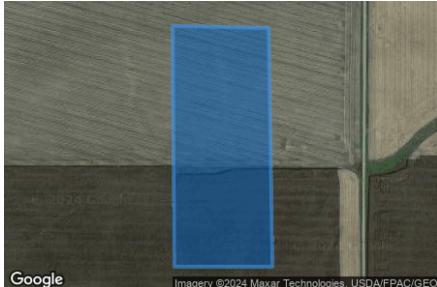
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510359	-88.411044	805.74	9.00	814.74
2	40.510351	-88.408448	804.47	9.00	813.47
3	40.506288	-88.408459	802.89	9.00	811.89
4	40.506313	-88.411034	802.42	9.00	811.42



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Name: 217
Footprint area: 20.2 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510351	-88.408448	804.47	9.00	813.47
2	40.510318	-88.406324	805.10	9.00	814.10
3	40.506288	-88.406238	801.76	9.00	810.76
4	40.506288	-88.408416	802.93	9.00	811.93



Name: 218
Footprint area: 13.7 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510334	-88.406356	805.00	9.00	814.00
2	40.510318	-88.405122	798.54	9.00	807.54
3	40.508230	-88.405101	790.20	9.00	799.20
4	40.508238	-88.404510	788.69	9.00	797.69
5	40.506256	-88.404532	798.82	9.00	807.82
6	40.506256	-88.406184	801.63	9.00	810.63



Name: 219
Footprint area: 26.8 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510383	-88.413340	809.90	9.00	818.90
2	40.513907	-88.413437	796.58	9.00	805.58
3	40.513907	-88.411946	796.48	9.00	805.48
4	40.514250	-88.411967	793.99	9.00	802.99
5	40.514258	-88.411538	795.87	9.00	804.87
6	40.514421	-88.411549	794.19	9.00	803.19
7	40.514421	-88.409768	799.36	9.00	808.36
8	40.512186	-88.409821	804.58	9.00	813.58
9	40.512186	-88.411001	810.36	9.00	819.36
10	40.510351	-88.411044	805.65	9.00	814.65

Name: 220
Footprint area: 20.1 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.514413	-88.409757	799.49	9.00	808.49
2	40.513964	-88.408963	800.67	9.00	809.67
3	40.513564	-88.408952	800.76	9.00	809.76
4	40.513548	-88.405079	787.13	9.00	796.13
5	40.511672	-88.405058	796.70	9.00	805.70
6	40.511705	-88.408384	795.36	9.00	804.36
7	40.512178	-88.408405	797.22	9.00	806.22
8	40.512170	-88.409821	804.34	9.00	813.34

2-Mile Flight Path Receptor(s)

Name: Schertz Field Airport southbound

Description:

Threshold height : 50 ft

Direction: 180.0 deg

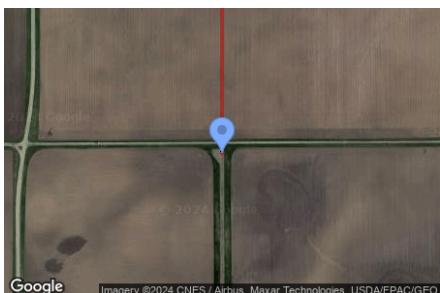
Glide slope: 3.0 deg

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	40.486433	-88.267580	744.71	50.00	794.71
2-mile point	40.515345	-88.267580	742.98	605.16	1348.14



Name: Schertz Field northbound

Description:

Threshold height : 50 ft

Direction: 0.0 deg

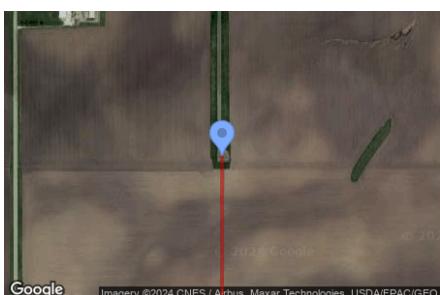
Glide slope: 3.0 deg

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	40.479521	-88.267516	755.12	50.00	805.12
2-mile point	40.450608	-88.267516	781.20	577.35	1358.55



Route Receptor(s)

Name: East 700 North Road

Route type Two-way

View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.500668	-88.442233	816.77	5.00	821.77
2	40.500692	-88.429562	822.81	5.00	827.81
3	40.500700	-88.416891	815.83	5.00	820.83
4	40.500692	-88.411624	794.22	5.00	799.22
5	40.500676	-88.404414	792.92	5.00	797.92
6	40.500643	-88.395992	770.04	5.00	775.04
7	40.500635	-88.390541	764.64	5.00	769.64

Name: East 800 North Road

Route type Two-way

View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.515343	-88.447179	840.05	5.00	845.05
2	40.515314	-88.438786	827.39	5.00	832.39
3	40.515294	-88.430437	827.90	5.00	832.90
4	40.515290	-88.422060	809.05	5.00	814.05
5	40.515269	-88.413694	803.67	5.00	808.67
6	40.515253	-88.406356	786.42	5.00	791.42
7	40.515237	-88.401581	781.50	5.00	786.50
8	40.515237	-88.396614	789.38	5.00	794.38
9	40.515220	-88.393031	784.52	5.00	789.52

Name: North 100 East Road

Route type Two-way

View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.516788	-88.442328	843.30	5.00	848.30
2	40.514260	-88.442371	830.47	5.00	835.47
3	40.510687	-88.442349	826.30	5.00	831.30
4	40.507033	-88.442349	824.33	5.00	829.33
5	40.502089	-88.442306	813.37	5.00	818.37
6	40.500343	-88.442306	816.36	5.00	821.36

Name: North 200 East Road

Route type Two-way

View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.516381	-88.423220	808.20	5.00	813.20
2	40.513673	-88.423209	819.78	5.00	824.78
3	40.510867	-88.423230	818.32	5.00	823.32
4	40.509162	-88.423220	812.79	5.00	817.79
5	40.506625	-88.423241	820.81	5.00	825.81
6	40.502954	-88.423230	816.20	5.00	821.20
7	40.500702	-88.423241	822.29	5.00	827.29

Name: North 300 East 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	40.516688	-88.404156	782.15	5.00	787.15
2	40.513711	-88.404167	785.29	5.00	790.29
3	40.510555	-88.404199	800.01	5.00	805.01
4	40.506770	-88.404199	795.33	5.00	800.33
5	40.503523	-88.404189	802.65	5.00	807.65
6	40.500300	-88.404199	792.79	5.00	797.79
7	40.497208	-88.404199	782.99	5.00	787.99

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	40.479661	-88.369477	776.79	500.00	1276.79
OP 2	40.502410	-88.394621	783.09	16.00	799.09
OP 3	40.508849	-88.387315	774.14	16.00	790.14
OP 4	40.514969	-88.382009	806.01	16.00	822.01
OP 5	40.516414	-88.382417	813.20	16.00	829.20
OP 6	40.514979	-88.400146	795.02	16.00	811.02
OP 7	40.517589	-88.405023	792.59	16.00	808.59
OP 8	40.502500	-88.404771	801.35	16.00	817.35
OP 9	40.499792	-88.404607	797.01	16.00	813.01
OP 10	40.490265	-88.404832	778.60	16.00	794.60
OP 11	40.501047	-88.421430	828.74	16.00	844.74
OP 12	40.500390	-88.418522	822.08	16.00	838.08
OP 13	40.498889	-88.427508	837.20	16.00	853.20
OP 14	40.510714	-88.420744	821.60	16.00	837.60
OP 15	40.480879	-88.408303	763.95	16.00	779.95
OP 16	40.479145	-88.414703	779.06	16.00	795.06
OP 17	40.478255	-88.420850	794.07	16.00	810.07

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
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	-	-
220	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: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

204 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

205 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

208 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

209 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

211 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

212 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

213 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

214 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

215 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

216 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

217 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

218 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

219 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

220 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East 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, non-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.

Gibson City

Block 2 9ft vehicles

Created Mar 20, 2024

Updated Mar 20, 2024

Time-step 1 minute

Timezone offset UTC-6

Minimum sun altitude 0.0 deg

Site ID 114855.19769

Project type Advanced

Project status: active

Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)

Ocular transmission coefficient: 0.5

Pupil diameter: 0.002 m

Eye focal length: 0.017 m

Sun subtended angle: 9.3 mrad

PV Analysis Methodology: **Version 2**

Enhanced subtended angle calculation: **On**

Summary of Results

No glare predicted!

PV Name	Tilt deg	Orientation deg	Glare		Energy Produced kWh
			"Green" Glare min	"Yellow" Glare min	
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	-
220	SA tracking	SA tracking	0	0	-

Component Data

PV Array(s)

Total PV footprint area: 399.0 acres

Name: 201
Footprint area: 23.2 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.504885	-88.441943	816.87	9.00	825.87
2	40.504967	-88.436472	820.33	9.00	829.33
3	40.506745	-88.436450	823.75	9.00	832.75
4	40.506745	-88.441943	818.94	9.00	827.94



Google

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Name: 202
Footprint area: 22.2 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.506761	-88.441943	819.06	9.00	828.06
2	40.506794	-88.436472	823.73	9.00	832.73
3	40.508540	-88.436557	818.32	9.00	827.32
4	40.508540	-88.441922	828.75	9.00	837.75

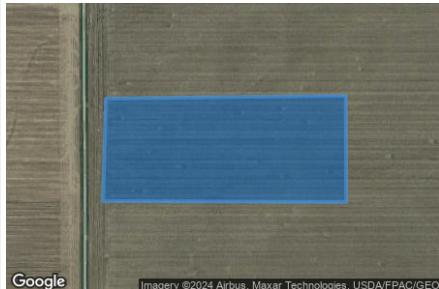


Google

Imagery ©2024 Airbus, Maxar Technologies, USDA/FPAC/GEO

Name: 203
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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.508589	-88.441943	828.65	9.00	837.65
2	40.508572	-88.436557	818.50	9.00	827.50
3	40.510367	-88.436568	826.41	9.00	835.41
4	40.510318	-88.441879	830.85	9.00	839.85

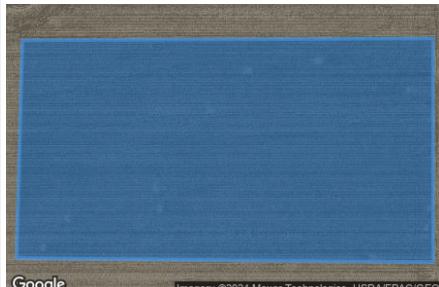


Google

Imagery ©2024 Airbus, Maxar Technologies, USDA/FPAC/GEO

Name: 204
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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510367	-88.433232	817.65	9.00	826.65
2	40.512243	-88.433232	819.02	9.00	828.02
3	40.512227	-88.437781	830.68	9.00	839.68
4	40.510400	-88.437845	828.46	9.00	837.46

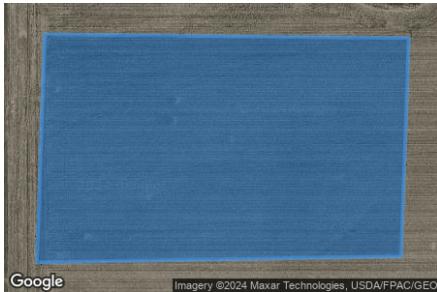


Google

Imagery ©2024 Maxar Technologies, USDA/FPAC/GEO

Name: 205
Footprint area: 17.7 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510351	-88.441943	830.73	9.00	839.73
2	40.510400	-88.437909	828.48	9.00	837.48
3	40.512243	-88.437823	830.37	9.00	839.37
4	40.512276	-88.441857	825.79	9.00	834.79

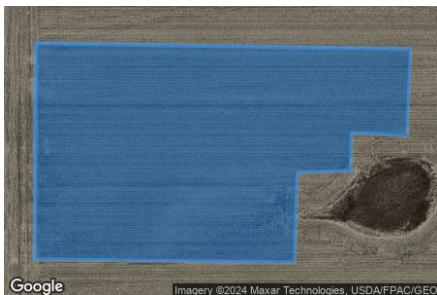


Google

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Name: 206
Footprint area: 14.6 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.512292	-88.441868	825.70	9.00	834.70
2	40.514103	-88.441857	829.61	9.00	838.61
3	40.514054	-88.437705	828.52	9.00	837.52
4	40.513328	-88.437748	828.39	9.00	837.39
5	40.513352	-88.438360	829.59	9.00	838.59
6	40.513034	-88.438371	827.85	9.00	836.85
7	40.513018	-88.438961	828.89	9.00	837.89
8	40.512268	-88.438993	828.90	9.00	837.90

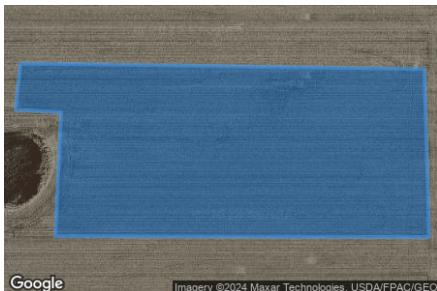


Google

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Name: 207
Footprint area: 14.1 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.513719	-88.437727	828.23	9.00	837.23
2	40.513670	-88.433253	819.03	9.00	828.03
3	40.512251	-88.433199	818.64	9.00	827.64
4	40.512259	-88.437341	831.70	9.00	840.70
5	40.513303	-88.437276	828.71	9.00	837.71
6	40.513328	-88.437781	828.39	9.00	837.39



Google

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Name: 208
Footprint area: 20.6 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.513858	-88.403813	782.34	9.00	791.34
2	40.513866	-88.402815	777.67	9.00	786.67
3	40.511174	-88.402837	790.26	9.00	799.26
4	40.511174	-88.401689	778.68	9.00	787.68
5	40.510514	-88.401699	784.10	9.00	793.10
6	40.510538	-88.400423	776.96	9.00	785.96
7	40.510147	-88.400433	779.48	9.00	788.48
8	40.510139	-88.400745	780.13	9.00	789.13
9	40.509935	-88.400723	780.17	9.00	789.17
10	40.509910	-88.401592	787.02	9.00	796.02
11	40.509347	-88.401592	782.98	9.00	791.98
12	40.509200	-88.401603	781.83	9.00	790.83
13	40.509168	-88.402611	785.02	9.00	794.02
14	40.508801	-88.402601	782.34	9.00	791.34
15	40.508776	-88.403223	786.46	9.00	795.46
16	40.508213	-88.403212	782.97	9.00	791.97
17	40.508205	-88.403963	787.35	9.00	796.35

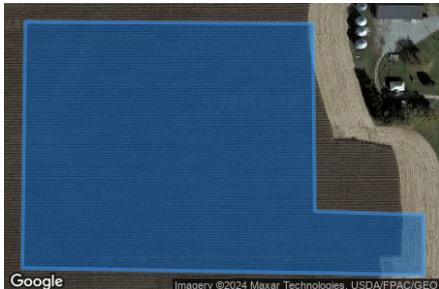


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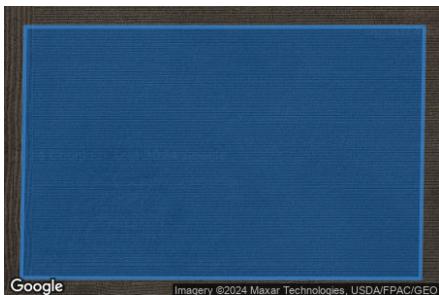
Name: 209
Footprint area: 17.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.500920	-88.404510	792.23	9.00	801.23
2	40.501426	-88.404510	793.08	9.00	802.08
3	40.501459	-88.405712	796.51	9.00	805.51
4	40.503042	-88.405734	804.75	9.00	813.75
5	40.503058	-88.408920	804.38	9.00	813.38
6	40.500978	-88.408952	794.16	9.00	803.16



Name: 210
Footprint area: 21.7 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.500961	-88.408974	794.17	9.00	803.17
2	40.500969	-88.413394	806.07	9.00	815.07
3	40.503074	-88.413351	796.13	9.00	805.13
4	40.503074	-88.408931	804.72	9.00	813.72



Name: 211
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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.511305	-88.411001	804.58	9.00	813.58
2	40.511272	-88.408373	795.69	9.00	804.69
3	40.511688	-88.408405	795.29	9.00	804.29
4	40.511664	-88.405058	796.60	9.00	805.60
5	40.510326	-88.405101	798.79	9.00	807.79
6	40.510359	-88.411066	805.67	9.00	814.67



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Name: 212
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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

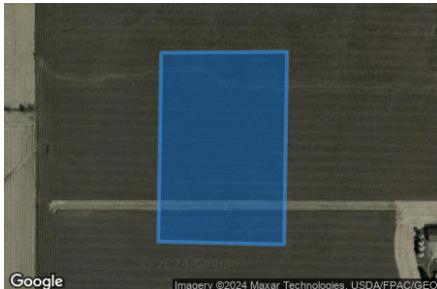
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503042	-88.405744	804.76	9.00	813.76
2	40.504086	-88.405744	810.63	9.00	819.63
3	40.504094	-88.404553	803.57	9.00	812.57
4	40.506264	-88.404532	798.82	9.00	807.82
5	40.506288	-88.408147	804.89	9.00	813.89
6	40.503058	-88.408201	800.00	9.00	809.00



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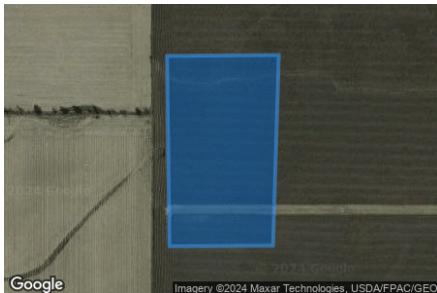
Name: 213
Footprint area: 20.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.506296	-88.408169	804.70	9.00	813.70
2	40.506280	-88.410958	803.37	9.00	812.37
3	40.503090	-88.411023	796.28	9.00	805.28
4	40.503042	-88.408233	799.75	9.00	808.75



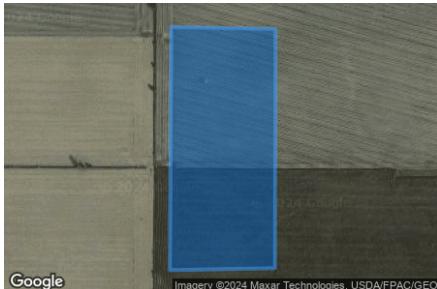
Name: 214
Footprint area: 17.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.503090	-88.413351	796.09	9.00	805.09
2	40.503099	-88.411055	796.23	9.00	805.23
3	40.506296	-88.410926	803.26	9.00	812.26
4	40.506280	-88.413405	804.66	9.00	813.66



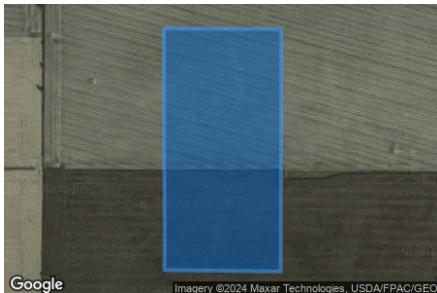
Name: 215
Footprint area: 21.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.506280	-88.413383	804.34	9.00	813.34
2	40.510383	-88.413351	809.89	9.00	818.89
3	40.510351	-88.411044	805.65	9.00	814.65
4	40.506313	-88.411055	801.81	9.00	810.81



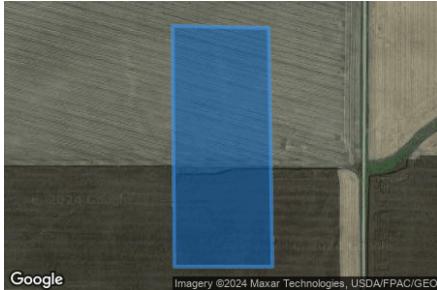
Name: 216
Footprint area: 24.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Ground Coverage Ratio: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510359	-88.411044	805.74	9.00	814.74
2	40.510351	-88.408448	804.47	9.00	813.47
3	40.506288	-88.408459	802.89	9.00	811.89
4	40.506313	-88.411034	802.42	9.00	811.42



Name: 217
Footprint area: 20.2 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510351	-88.408448	804.47	9.00	813.47
2	40.510318	-88.406324	805.10	9.00	814.10
3	40.506288	-88.406238	801.76	9.00	810.76
4	40.506288	-88.408416	802.93	9.00	811.93



Name: 218
Footprint area: 13.7 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510334	-88.406356	805.00	9.00	814.00
2	40.510318	-88.405122	798.54	9.00	807.54
3	40.508230	-88.405101	790.20	9.00	799.20
4	40.508238	-88.404510	788.69	9.00	797.69
5	40.506256	-88.404532	798.82	9.00	807.82
6	40.506256	-88.406184	801.63	9.00	810.63



Name: 219
Footprint area: 26.8 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.510383	-88.413340	809.90	9.00	818.90
2	40.513907	-88.413437	796.58	9.00	805.58
3	40.513907	-88.411946	796.48	9.00	805.48
4	40.514250	-88.411967	793.99	9.00	802.99
5	40.514258	-88.411538	795.87	9.00	804.87
6	40.514421	-88.411549	794.19	9.00	803.19
7	40.514421	-88.409768	799.36	9.00	808.36
8	40.512186	-88.409821	804.58	9.00	813.58
9	40.512186	-88.411001	810.36	9.00	819.36
10	40.510351	-88.411044	805.65	9.00	814.65

Name: 220
Footprint area: 20.1 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: 0.305
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.514413	-88.409757	799.49	9.00	808.49
2	40.513964	-88.408963	800.67	9.00	809.67
3	40.513564	-88.408952	800.76	9.00	809.76
4	40.513548	-88.405079	787.13	9.00	796.13
5	40.511672	-88.405058	796.70	9.00	805.70
6	40.511705	-88.408384	795.36	9.00	804.36
7	40.512178	-88.408405	797.22	9.00	806.22
8	40.512170	-88.409821	804.34	9.00	813.34

2-Mile Flight Path Receptor(s)

Name: Schertz Field Airport southbound

Description:

Threshold height : 50 ft

Direction: 180.0 deg

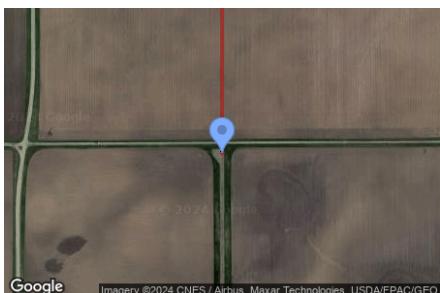
Glide slope: 3.0 deg

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	40.486433	-88.267580	744.71	50.00	794.71
2-mile point	40.515345	-88.267580	742.98	605.16	1348.14



Name: Schertz Field northbound

Description:

Threshold height : 50 ft

Direction: 0.0 deg

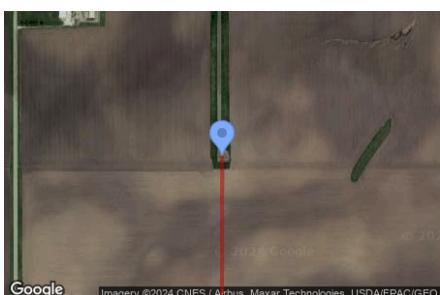
Glide slope: 3.0 deg

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	40.479521	-88.267516	755.12	50.00	805.12
2-mile point	40.450608	-88.267516	781.20	577.35	1358.55



Route Receptor(s)

Name: East 700 North Road

Route type Two-way

View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.500668	-88.442233	816.77	9.00	825.77
2	40.500692	-88.429562	822.81	9.00	831.81
3	40.500700	-88.416891	815.83	9.00	824.83
4	40.500692	-88.411624	794.22	9.00	803.22
5	40.500676	-88.404414	792.92	9.00	801.92
6	40.500643	-88.395992	770.04	9.00	779.04
7	40.500635	-88.390541	764.64	9.00	773.64

Name: East 800 North Road

Route type Two-way

View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.515343	-88.447179	840.05	9.00	849.05
2	40.515314	-88.438786	827.39	9.00	836.39
3	40.515294	-88.430437	827.90	9.00	836.90
4	40.515290	-88.422060	809.05	9.00	818.05
5	40.515269	-88.413694	803.67	9.00	812.67
6	40.515253	-88.406356	786.42	9.00	795.42
7	40.515237	-88.401581	781.50	9.00	790.50
8	40.515237	-88.396614	789.38	9.00	798.38
9	40.515220	-88.393031	784.52	9.00	793.52

Name: North 100 East Road

Route type Two-way

View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.516788	-88.442328	843.30	9.00	852.30
2	40.514260	-88.442371	830.47	9.00	839.47
3	40.510687	-88.442349	826.30	9.00	835.30
4	40.507033	-88.442349	824.33	9.00	833.33
5	40.502089	-88.442306	813.37	9.00	822.37
6	40.500343	-88.442306	816.36	9.00	825.36

Name: North 200 East Road

Route type Two-way

View angle: 50.0 deg



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Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	40.516381	-88.423220	808.20	9.00	817.20
2	40.513673	-88.423209	819.78	9.00	828.78
3	40.510867	-88.423230	818.32	9.00	827.32
4	40.509162	-88.423220	812.79	9.00	821.79
5	40.506625	-88.423241	820.81	9.00	829.81
6	40.502954	-88.423230	816.20	9.00	825.20
7	40.500702	-88.423241	822.29	9.00	831.29

Name: North 300 East 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	40.516688	-88.404156	782.15	9.00	791.15
2	40.513711	-88.404167	785.29	9.00	794.29
3	40.510555	-88.404199	800.01	9.00	809.01
4	40.506770	-88.404199	795.33	9.00	804.33
5	40.503523	-88.404189	802.65	9.00	811.65
6	40.500300	-88.404199	792.79	9.00	801.79
7	40.497208	-88.404199	782.99	9.00	791.99

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	40.479661	-88.369477	776.79	500.00	1276.79
OP 2	40.502410	-88.394621	783.09	16.00	799.09
OP 3	40.508849	-88.387315	774.14	16.00	790.14
OP 4	40.514969	-88.382009	806.01	16.00	822.01
OP 5	40.516414	-88.382417	813.20	16.00	829.20
OP 6	40.514979	-88.400146	795.02	16.00	811.02
OP 7	40.517589	-88.405023	792.59	16.00	808.59
OP 8	40.502500	-88.404771	801.35	16.00	817.35
OP 9	40.499792	-88.404607	797.01	16.00	813.01
OP 10	40.490265	-88.404832	778.60	16.00	794.60
OP 11	40.501047	-88.421430	828.74	16.00	844.74
OP 12	40.500390	-88.418522	822.08	16.00	838.08
OP 13	40.498889	-88.427508	837.20	16.00	853.20
OP 14	40.510714	-88.420744	821.60	16.00	837.60
OP 15	40.480879	-88.408303	763.95	16.00	779.95
OP 16	40.479145	-88.414703	779.06	16.00	795.06
OP 17	40.478255	-88.420850	794.07	16.00	810.07

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
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	-	-
220	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: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

204 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

205 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

208 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

209 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

211 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

212 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

213 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

214 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

215 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

216 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

217 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

218 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

219 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East Road	0	0

No glare found

220 no glare found

Component	Green glare (min)	Yellow glare (min)
FP: Schertz Field Airport southbound	0	0
FP: Schertz Field northbound	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
Route: East 700 North Road	0	0
Route: East 800 North Road	0	0
Route: North 100 East Road	0	0
Route: North 200 East Road	0	0
Route: North 300 East 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, non-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.