Stantec

Memo

To:	Deron Lawrence Longroad Energy	From:	Jennifer Brunty Stantec Consulting Services Inc.
File:	185705411	Date:	May 11, 2023

Reference: Zeta Solar Project Glare Hazard Analysis

INTRODUCTION

The purpose of this memorandum is to describe the glare potential from the Zeta Solar Project, a proposed photovoltaic solar power generation facility with a battery energy storage system and onsite Project substation.in Merced County, California. The project site occupies 650 acres approximately 9 miles south of the City of Los Banos.

Stantec used the web-based ForgeSolar glare hazard analysis program to analyze the potential for glare. ForgeSolar includes GlareGauge, the leading tool used globally to analyze glare, and is based on the Solar Glare Hazard Analysis Tool ("SGHAT"), licensed from Sandia National Laboratories. ForgeSolar is an industry standard software that meets the standards of the Federal Aviation Administration. Although originally developed to analyze potential glare on aircraft, this software has been adapted to also analyze potential glare on roads and observation points on the ground.

ForgeSolar employs an interactive Google map for site location, mapping the proposed PV array(s), and public roads. 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 panels, reflectance, environment, and ocular factors are entered by the user. If glare is predicted, 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.

METHODS

The analysis was conducted over the area outlined in blue on **Figure 1,** below. Due to analysis program limitations and topography on the site, the array was broken into three separate blocks (Blocks 1-3) to analyze the whole site. These blocks are shown in **Figures 1-4**. Fifteen Observation Points (OPs) located on nearby roads, including State Highway 165 and northbound and southbound segments of Interstate 5, were analyzed for glare. In addition, linear route analysis was performed for extended lengths of each of the three road segments (3 miles for State Highway 165 and approximately 5 miles for each Interstate 5 segment), as shown by blue-green lines on **Figures 2-4,** below. Analysis input parameters included a maximum tracking angle of 60 degrees and use of smooth textured glass with anti-reflective coating.

Each block was analyzed four times, for combinations of 5-foot and 9-foot vehicle heights and 6-foot and 12-foot panel heights.

RESULTS

The resulting 12 ForgeSolar output reports are provided as Attachment 1. **No glare was predicted** for any of the OPs or routes for any height combinations for any analysis block.

Reference: **Zeta Solar Project Glare Hazard Analysis**

Please do not hesitate to contact the undersigned with any questions, comments or concerns regarding these analyses.

Stantec Consulting Services, Inc.

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Attachment: Forgesolar Reports

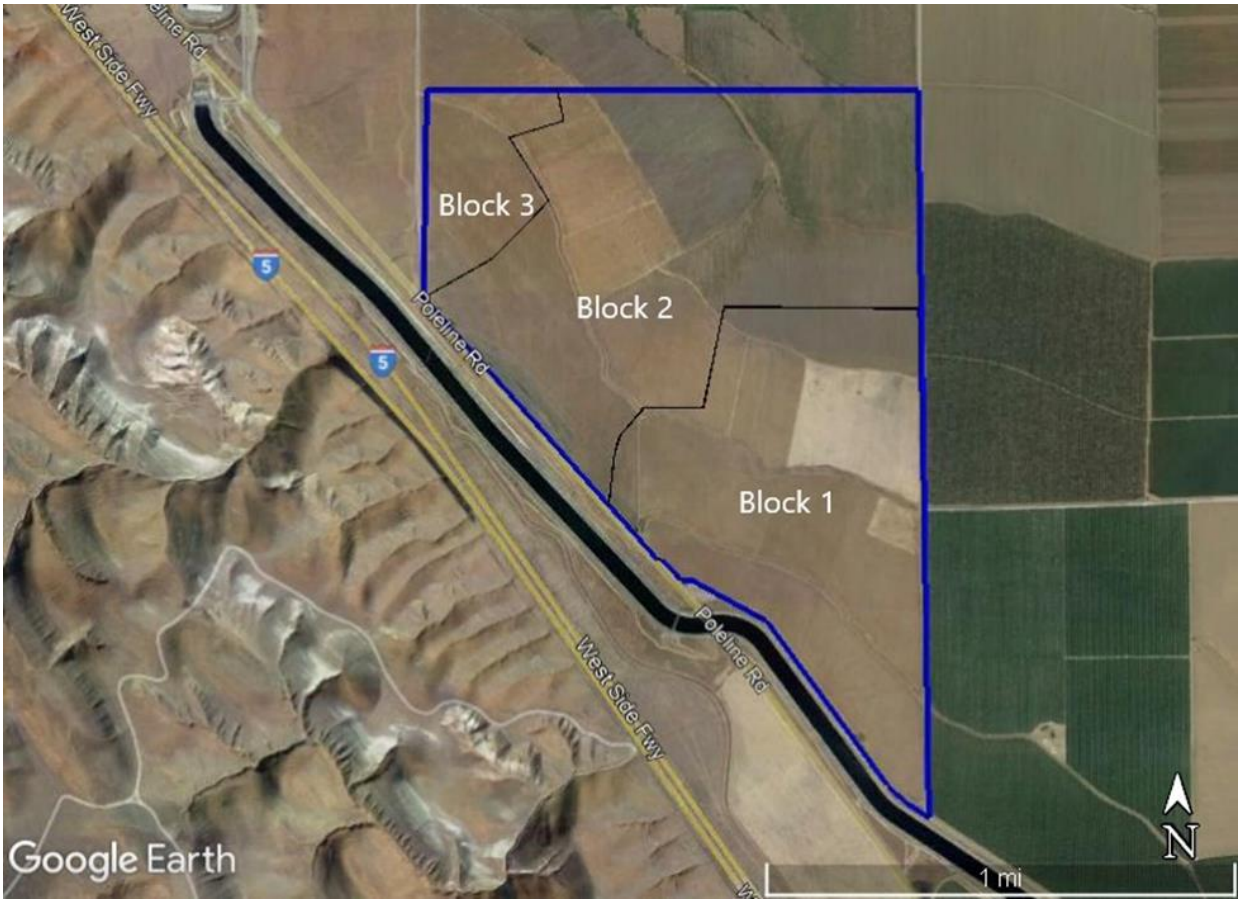


Figure 1: Glare Hazard Analysis Area and Array Blocks Used in Analysis
Note: Black lines depict approximate block boundaries.
Source: Google Earth Imagery, September 2020

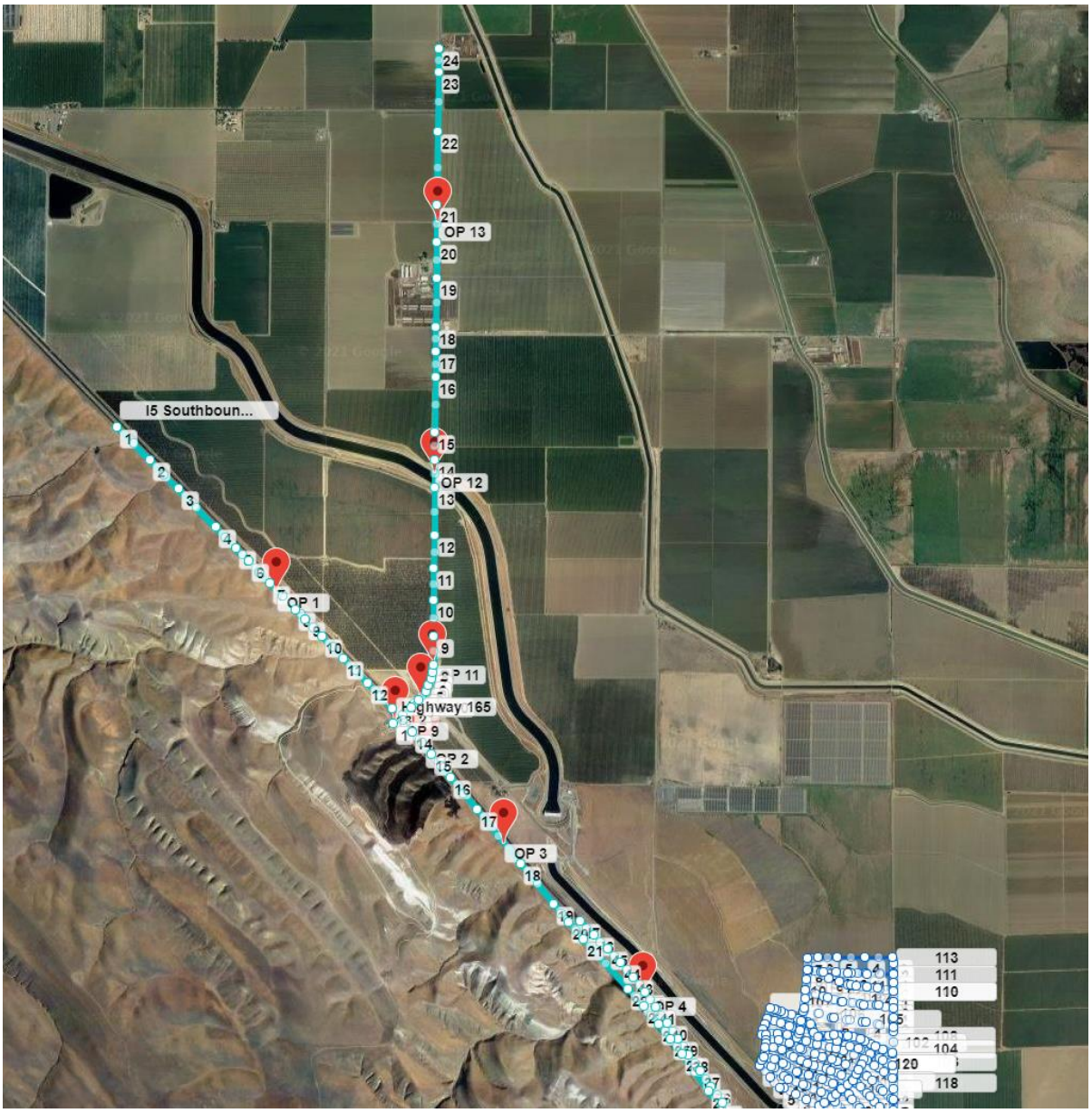


Figure 2a: Block 1 Analysis Area Showing Routes and OPs Analyzed.
Source: ForgeSolar, Google Earth Imagery, September 2020

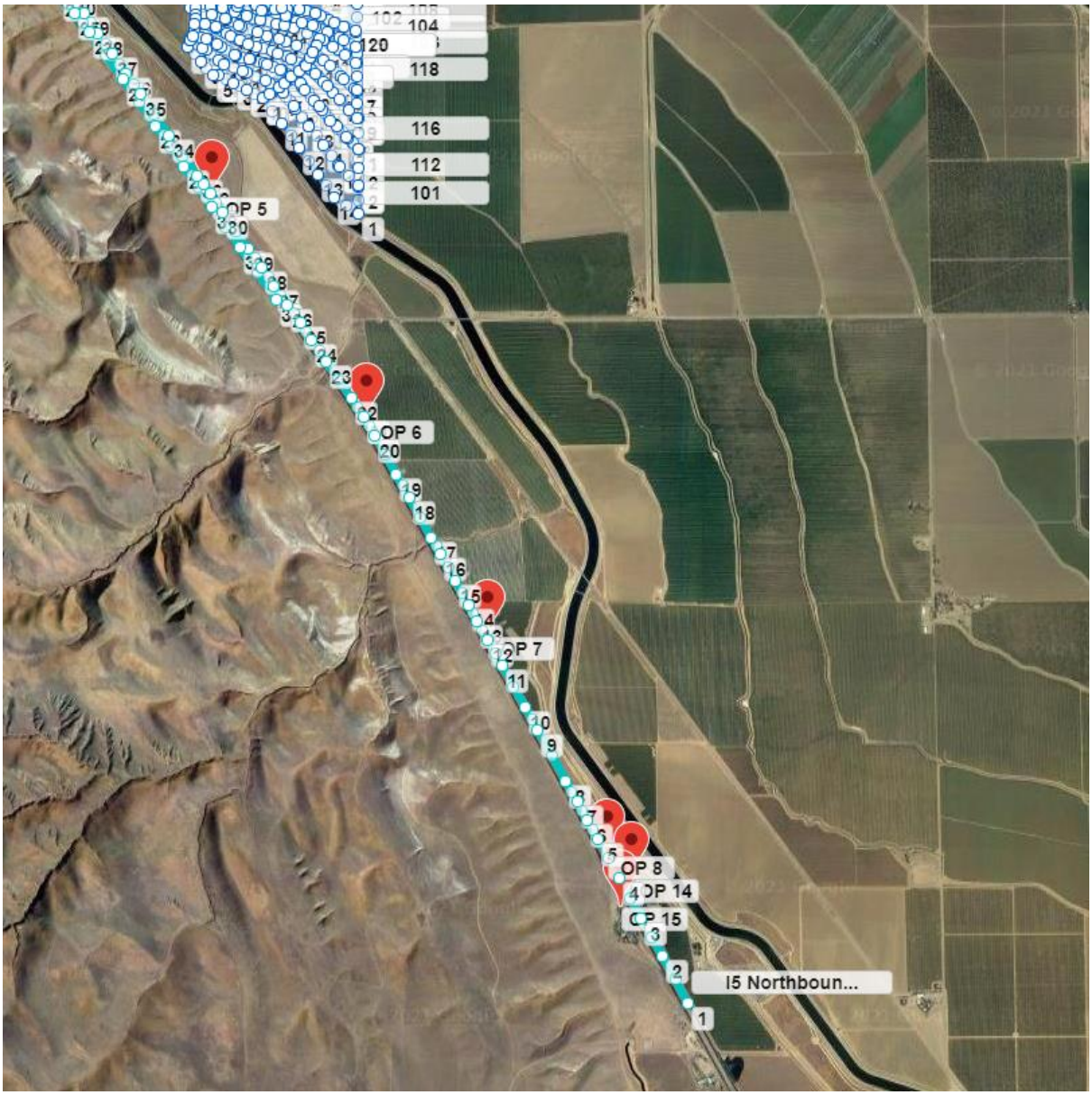


Figure 2b: Block 1 Analysis Area Showing Routes and OPs Analyzed.
Source: ForgeSolar, Google Earth Imagery, September 2020

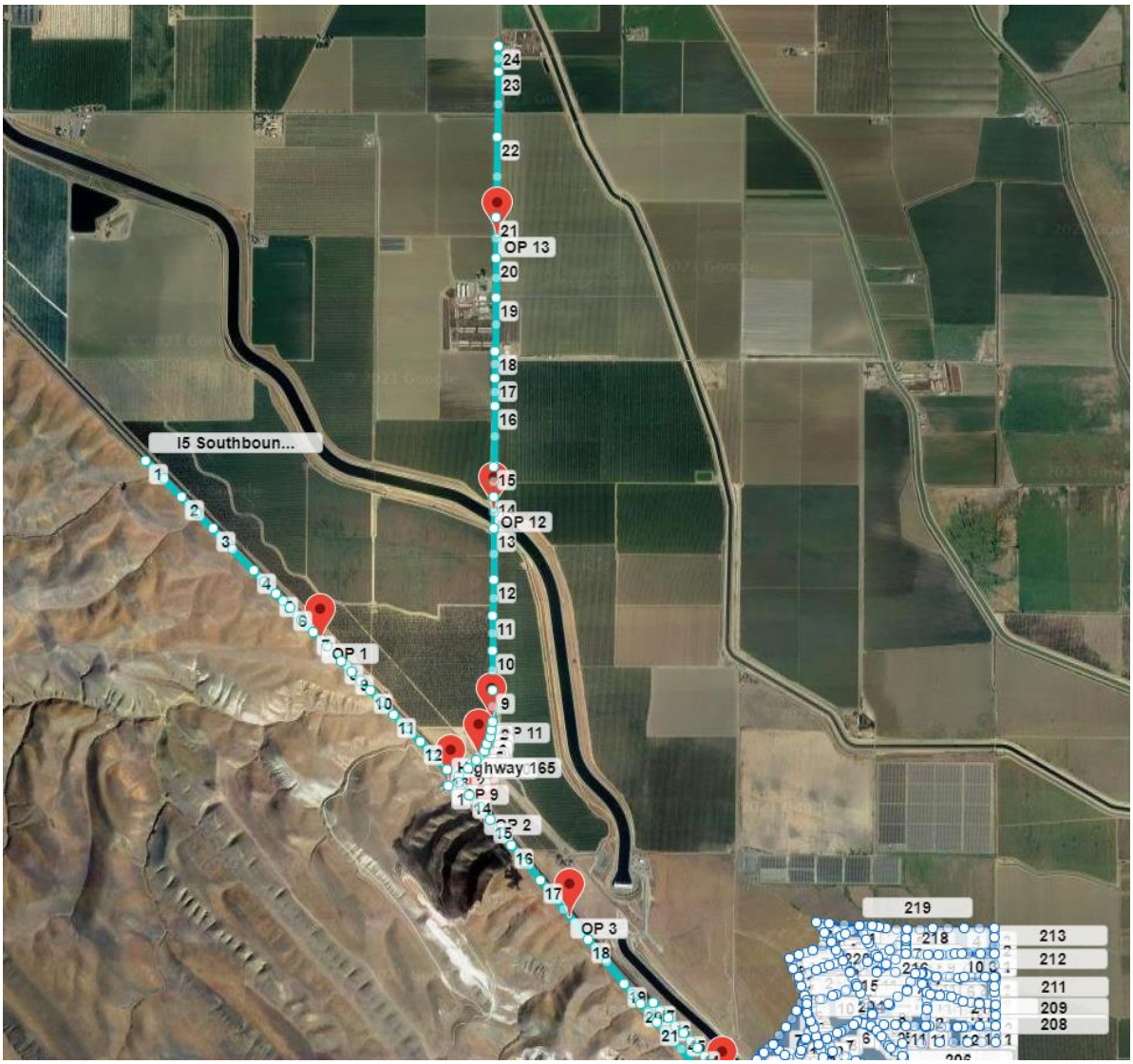


Figure 3a: Block 2 Analysis Area Showing Routes and OPs Analyzed.
Source: ForgeSolar, Google Earth Imagery, September 2020

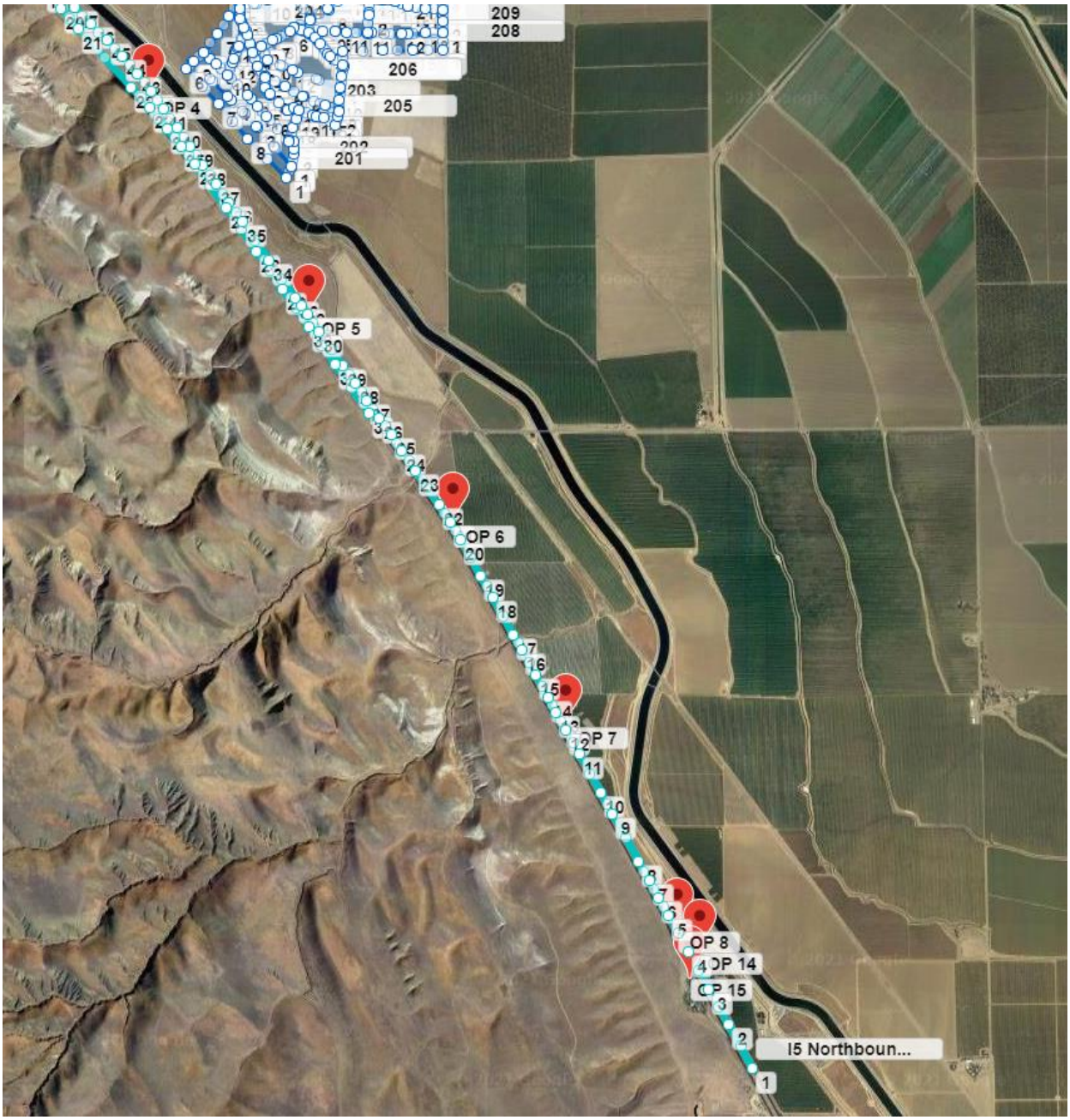


Figure 3b: Block 2 Analysis Area Showing Routes and OPs Analyzed.
Source: ForgeSolar, Google Earth Imagery, September 2020

Figure 4a: Block 3 Analysis Area Showing Routes and OPs Analyzed.
Source: ForgeSolar, Google Earth Imagery, September 2020

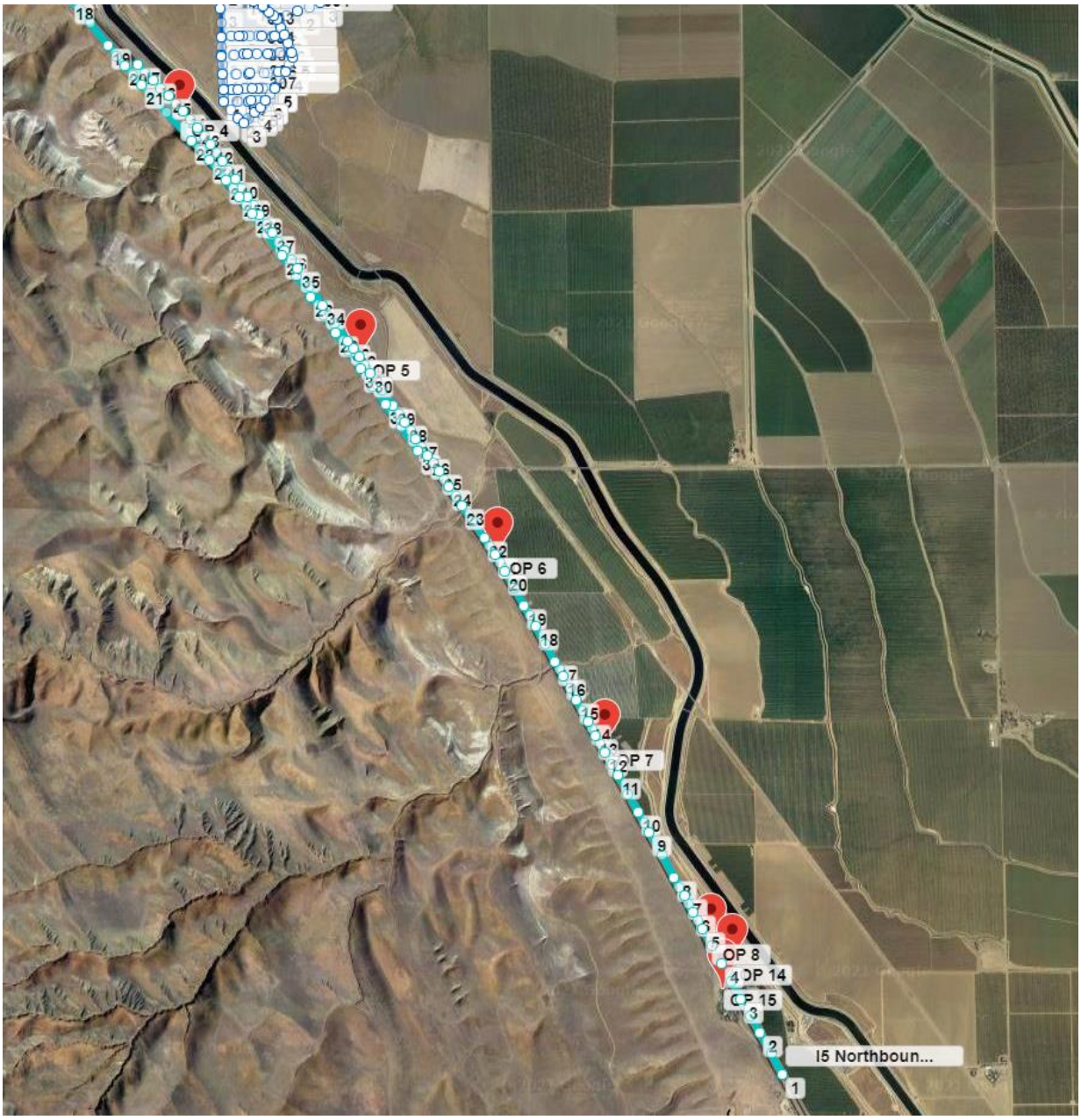


Figure 4b: Block 3 Analysis Area Showing Routes and OPs Analyzed.
Source: ForgeSolar, Google Earth Imagery, September 2020

ATTACHMENT 1

FORGESOLAR REPORTS

Zeta Solar

Block 1 6ft pan 5ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57574.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

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

PV Array(s)

Total PV footprint area: 250.4 acres

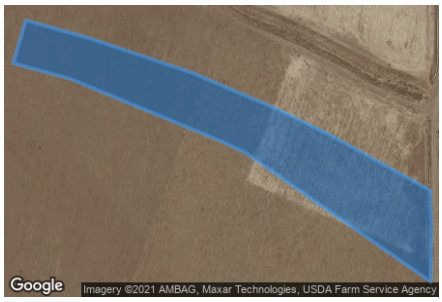
Name: 101
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.899217	-120.800709	321.99	6.00	327.99
2	36.900590	-120.800666	314.06	6.00	320.06
3	36.901662	-120.801943	313.76	6.00	319.76
4	36.902658	-120.802898	312.95	6.00	318.95
5	36.903666	-120.803874	313.40	6.00	319.40
6	36.904517	-120.804679	312.67	6.00	318.67
7	36.905394	-120.805516	311.69	6.00	317.69
8	36.905643	-120.805762	311.74	6.00	317.74
9	36.905373	-120.806240	314.13	6.00	320.13
10	36.905068	-120.806760	319.90	6.00	325.91
11	36.903758	-120.805580	323.09	6.00	329.09
12	36.902516	-120.804443	325.71	6.00	331.71
13	36.901206	-120.803284	327.24	6.00	333.24
14	36.900032	-120.802211	328.03	6.00	334.03

Name: 102
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

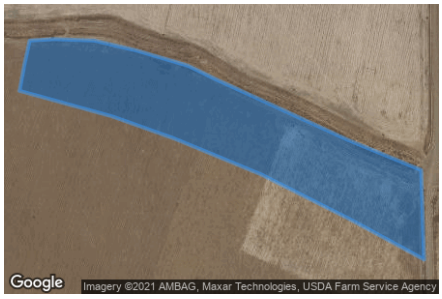
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908135	-120.803169	280.11	6.00	286.11
2	36.908671	-120.804810	282.06	6.00	288.06
3	36.908842	-120.805647	279.27	6.00	285.27
4	36.909057	-120.806924	279.22	6.00	285.22
5	36.909246	-120.807771	280.27	6.00	286.27
6	36.909409	-120.808329	281.85	6.00	287.85
7	36.909674	-120.809359	281.96	6.00	287.96
8	36.909735	-120.810164	286.69	6.00	292.69
9	36.909717	-120.811065	287.10	6.00	293.10
10	36.909524	-120.811076	288.49	6.00	294.49
11	36.909357	-120.811087	289.55	6.00	295.55
12	36.909357	-120.810057	288.21	6.00	294.21
13	36.909125	-120.809091	281.64	6.00	287.64
14	36.908727	-120.808152	287.30	6.00	293.30
15	36.908268	-120.806527	282.52	6.00	288.52
16	36.907984	-120.805357	288.09	6.00	294.09
17	36.907427	-120.803593	288.38	6.00	294.38
18	36.907843	-120.803340	286.10	6.00	292.10

Name: 103
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 6.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906882	-120.800814	279.88	6.00	285.88
2	36.907384	-120.800808	277.56	6.00	283.56
3	36.907689	-120.800824	275.56	6.00	281.56
4	36.908173	-120.801930	279.62	6.00	285.62
5	36.908422	-120.802573	277.41	6.00	283.41
6	36.908727	-120.803475	277.63	6.00	283.63
7	36.909031	-120.804617	278.28	6.00	284.28
8	36.909185	-120.805309	279.28	6.00	285.28
9	36.908808	-120.805449	281.59	6.00	287.59
10	36.908671	-120.804816	282.17	6.00	288.17
11	36.908122	-120.803142	279.92	6.00	285.93
12	36.908015	-120.802858	280.92	6.00	286.92
13	36.907547	-120.802015	282.99	6.00	288.99

Name: 104
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 7.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.907689	-120.800824	275.56	6.00	281.56
2	36.908482	-120.800857	271.62	6.00	277.62
3	36.908748	-120.801667	272.87	6.00	278.87
4	36.909070	-120.802541	271.99	6.00	277.99
5	36.909276	-120.803104	271.94	6.00	277.94
6	36.909409	-120.803448	271.27	6.00	277.27
7	36.909542	-120.804011	272.39	6.00	278.39
8	36.909632	-120.804488	274.31	6.00	280.31
9	36.909644	-120.804934	273.86	6.00	279.86
10	36.909632	-120.805202	272.92	6.00	278.92
11	36.909417	-120.805261	275.89	6.00	281.89
12	36.909185	-120.805315	279.28	6.00	285.28
13	36.908958	-120.804285	276.35	6.00	282.35
14	36.908761	-120.803593	277.57	6.00	283.57
15	36.908443	-120.802632	277.45	6.00	283.45
16	36.908040	-120.801635	277.39	6.00	283.39

Name: 105
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 6.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.909640	-120.805202	272.68	6.00	278.68
2	36.909666	-120.805620	271.85	6.00	277.85
3	36.909602	-120.806012	273.01	6.00	279.01
4	36.909610	-120.806339	273.12	6.00	279.12
5	36.909627	-120.806500	272.07	6.00	278.07
6	36.909533	-120.806758	271.66	6.00	277.66
7	36.909520	-120.806897	271.69	6.00	277.69
8	36.909627	-120.807128	273.71	6.00	279.71
9	36.909872	-120.807267	274.14	6.00	280.14
10	36.910236	-120.807401	274.21	6.00	280.21
11	36.910391	-120.807541	272.88	6.00	278.88
12	36.910494	-120.807723	272.36	6.00	278.36
13	36.910541	-120.808109	274.23	6.00	280.23
14	36.910202	-120.808233	275.42	6.00	281.42
15	36.909700	-120.808437	279.76	6.00	285.76
16	36.909469	-120.808544	282.32	6.00	288.32
17	36.909246	-120.807771	280.27	6.00	286.27
18	36.909065	-120.806983	279.42	6.00	285.42
19	36.908881	-120.805894	280.03	6.00	286.03
20	36.908799	-120.805438	281.90	6.00	287.90
21	36.909246	-120.805309	278.54	6.00	284.54

Name: 106
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.909983	-120.808324	275.63	6.00	281.63
2	36.910018	-120.808297	275.25	6.00	281.25
3	36.910545	-120.808120	274.12	6.00	280.12
4	36.910712	-120.808512	274.91	6.00	280.91
5	36.910966	-120.808984	273.33	6.00	279.33
6	36.911038	-120.809601	273.21	6.00	279.21
7	36.911163	-120.809912	274.49	6.00	280.49
8	36.911262	-120.810201	274.77	6.00	280.77
9	36.911343	-120.810400	272.81	6.00	278.81
10	36.911390	-120.810690	273.93	6.00	279.93
11	36.910747	-120.810936	276.50	6.00	282.50
12	36.910592	-120.810368	278.45	6.00	284.45
13	36.910399	-120.809687	275.90	6.00	281.90
14	36.910193	-120.809048	276.67	6.00	282.67
15	36.909983	-120.808324	275.63	6.00	281.63
16	36.910288	-120.808206	274.17	6.00	280.18
17	36.910541	-120.808115	274.23	6.00	280.23

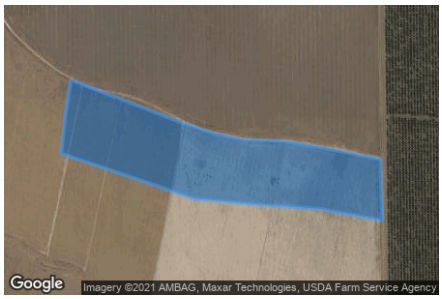
Name: 107
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 5.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.910745	-120.810954	276.53	6.00	282.53
2	36.910350	-120.811163	278.08	6.00	284.08
3	36.910011	-120.811287	278.88	6.00	284.88
4	36.909715	-120.811416	284.89	6.00	290.89
5	36.909720	-120.811062	287.12	6.00	293.13
6	36.909732	-120.810112	286.79	6.00	292.79
7	36.909672	-120.809388	282.34	6.00	288.34
8	36.909458	-120.808556	282.42	6.00	288.42
9	36.909784	-120.808406	277.91	6.00	283.91
10	36.909981	-120.808320	275.63	6.00	281.63
11	36.910239	-120.809179	277.91	6.00	283.91
12	36.910457	-120.809876	276.45	6.00	282.45

Name: 108
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908491	-120.800840	271.29	6.00	277.29
2	36.909863	-120.800765	260.55	6.00	266.55
3	36.910207	-120.800776	258.46	6.00	264.46
4	36.910524	-120.803297	258.99	6.00	264.99
5	36.910811	-120.805717	258.67	6.00	264.67
6	36.911373	-120.807954	260.56	6.00	266.56
7	36.911163	-120.808039	262.45	6.00	268.46
8	36.910601	-120.808233	273.49	6.00	279.49
9	36.910344	-120.807471	273.34	6.00	279.34
10	36.909821	-120.807240	274.15	6.00	280.15
11	36.909550	-120.806900	271.28	6.00	277.28
12	36.909606	-120.805980	272.85	6.00	278.85
13	36.909683	-120.805604	271.54	6.00	277.54
14	36.909632	-120.804488	274.31	6.00	280.31
15	36.909400	-120.803415	271.36	6.00	277.36
16	36.908963	-120.802203	271.81	6.00	277.81

Name: 109
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 20.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

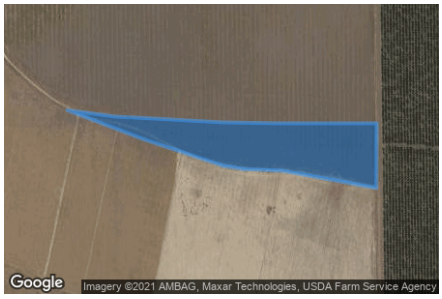


Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911399	-120.800755	252.07	6.00	258.07
2	36.911837	-120.800776	248.90	6.00	254.90
3	36.912480	-120.800797	246.02	6.00	252.02
4	36.912677	-120.802021	244.85	6.00	250.85
5	36.912797	-120.802900	245.22	6.00	251.22
6	36.912823	-120.803855	245.92	6.00	251.92
7	36.912935	-120.804477	245.72	6.00	251.72
8	36.913106	-120.805132	246.47	6.00	252.47
9	36.913887	-120.807664	244.89	6.00	250.89
10	36.913286	-120.807782	247.67	6.00	253.67
11	36.912583	-120.807879	250.93	6.00	256.93
12	36.912184	-120.806398	250.89	6.00	256.89
13	36.911785	-120.804939	252.30	6.00	258.30
14	36.911674	-120.803426	253.48	6.00	259.48
15	36.911605	-120.802171	256.75	6.00	262.75

Name: 110
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 20.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911395	-120.800758	252.07	6.00	258.07
2	36.910760	-120.800769	255.11	6.00	261.11
3	36.910194	-120.800769	258.60	6.00	264.60
4	36.910477	-120.803022	260.99	6.00	266.99
5	36.910777	-120.805586	258.22	6.00	264.22
6	36.911369	-120.807989	260.17	6.00	266.17
7	36.912030	-120.807914	254.55	6.00	260.56
8	36.912570	-120.807871	250.88	6.00	256.88
9	36.912081	-120.806123	252.84	6.00	258.84
10	36.911789	-120.804889	251.01	6.00	257.01
11	36.911635	-120.803172	253.65	6.00	259.65
12	36.911592	-120.802013	254.88	6.00	260.88

Name: 111
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.8 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912484	-120.800801	246.02	6.00	252.02
2	36.913033	-120.800796	243.07	6.00	249.07
3	36.913634	-120.800790	237.72	6.00	243.72
4	36.913634	-120.803000	239.65	6.00	245.65
5	36.913651	-120.804234	238.29	6.00	244.29
6	36.913702	-120.805377	240.37	6.00	246.37
7	36.913754	-120.806605	245.07	6.00	251.07
8	36.913865	-120.807657	245.07	6.00	251.07
9	36.913351	-120.805972	247.95	6.00	253.95
10	36.912879	-120.804202	244.71	6.00	250.71
11	36.912819	-120.803741	245.09	6.00	251.09
12	36.912793	-120.802915	245.41	6.00	251.41

Name: 112
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 19.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.900599	-120.800663	314.02	6.00	320.02
2	36.901527	-120.800673	310.56	6.00	316.56
3	36.902490	-120.800684	304.55	6.00	310.55
4	36.903048	-120.801365	305.58	6.00	311.58
5	36.903640	-120.802100	306.98	6.00	312.98
6	36.904446	-120.802980	302.10	6.00	308.10
7	36.904961	-120.803495	303.69	6.00	309.70
8	36.905733	-120.804289	303.38	6.00	309.38
9	36.906162	-120.804890	302.09	6.00	308.09
10	36.905913	-120.805298	309.88	6.00	315.88
11	36.905665	-120.805770	311.64	6.00	317.64
12	36.904656	-120.804815	311.91	6.00	317.91
13	36.903621	-120.803829	313.27	6.00	319.27
14	36.901598	-120.801864	312.79	6.00	318.79

Name: 113
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.913625	-120.800812	237.76	6.00	243.76
2	36.914268	-120.800801	235.36	6.00	241.36
3	36.914680	-120.800822	233.37	6.00	239.37
4	36.914680	-120.803086	233.97	6.00	239.97
5	36.914680	-120.805307	234.60	6.00	240.60
6	36.914663	-120.806831	238.47	6.00	244.47
7	36.914637	-120.807721	237.41	6.00	243.41
8	36.913891	-120.807700	245.00	6.00	251.00
9	36.913719	-120.806466	244.41	6.00	250.41
10	36.913659	-120.804427	238.18	6.00	244.18
11	36.913621	-120.802941	240.08	6.00	246.08

Name: 114
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905068	-120.806784	320.03	6.00	326.03
2	36.905531	-120.807782	319.96	6.00	325.96
3	36.905874	-120.808673	320.26	6.00	326.26
4	36.906252	-120.809606	319.26	6.00	325.26
5	36.906252	-120.809960	321.50	6.00	327.50
6	36.906972	-120.810738	315.65	6.00	321.65
7	36.907727	-120.811580	306.02	6.00	312.02
8	36.908036	-120.811408	301.42	6.00	307.42
9	36.907530	-120.810400	308.34	6.00	314.34
10	36.906852	-120.809306	311.73	6.00	317.73
11	36.906406	-120.807836	310.86	6.00	316.86
12	36.905865	-120.806334	311.37	6.00	317.37
13	36.905668	-120.805765	311.55	6.00	317.55
14	36.905282	-120.806393	316.59	6.00	322.59

Name: 115
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905668	-120.805765	311.55	6.00	317.55
2	36.905861	-120.805406	309.15	6.00	315.15
3	36.906157	-120.804939	302.58	6.00	308.58
4	36.906526	-120.805572	302.63	6.00	308.63
5	36.906852	-120.806677	303.60	6.00	309.60
6	36.907049	-120.807557	304.71	6.00	310.71
7	36.907264	-120.808522	303.79	6.00	309.79
8	36.907719	-120.809445	303.19	6.00	309.19
9	36.908096	-120.810293	301.87	6.00	307.87
10	36.908186	-120.810765	301.40	6.00	307.40
11	36.908268	-120.811237	300.88	6.00	306.88
12	36.908036	-120.811430	301.25	6.00	307.25
13	36.907633	-120.810625	307.94	6.00	313.94
14	36.907024	-120.809585	309.77	6.00	315.77
15	36.906818	-120.809263	311.66	6.00	317.66
16	36.906457	-120.808029	309.69	6.00	315.69
17	36.905977	-120.806602	311.93	6.00	317.94

Name: 116
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 13.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.902477	-120.800690	304.77	6.00	310.77
2	36.904090	-120.800723	294.72	6.00	300.72
3	36.904493	-120.801291	294.92	6.00	300.92
4	36.905342	-120.802278	294.57	6.00	300.57
5	36.905883	-120.802879	294.81	6.00	300.81
6	36.906526	-120.803705	294.32	6.00	300.32
7	36.906706	-120.804049	293.14	6.00	299.14
8	36.906174	-120.804918	302.17	6.00	308.17
9	36.905814	-120.804397	303.75	6.00	309.75
10	36.905522	-120.804102	305.16	6.00	311.17
11	36.904656	-120.803212	303.38	6.00	309.38
12	36.903952	-120.802450	302.22	6.00	308.22
13	36.903112	-120.801452	306.59	6.00	312.59

Name: 117
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 8.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906706	-120.804049	293.14	6.00	299.14
2	36.907049	-120.803818	290.06	6.00	296.06
3	36.907410	-120.803587	288.34	6.00	294.34
4	36.907015	-120.802890	288.70	6.00	294.70
5	36.906209	-120.801806	290.29	6.00	296.29
6	36.905574	-120.800980	288.76	6.00	294.76
7	36.905462	-120.800776	287.88	6.00	293.88
8	36.904836	-120.800744	291.63	6.00	297.63
9	36.904081	-120.800733	294.90	6.00	300.90
10	36.905008	-120.801892	294.68	6.00	300.69
11	36.905694	-120.802686	295.19	6.00	301.19
12	36.906354	-120.803458	295.19	6.00	301.19

Name: 118
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 7.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905479	-120.800787	287.99	6.00	293.99
2	36.906217	-120.800792	283.51	6.00	289.51
3	36.906886	-120.800819	279.83	6.00	285.83
4	36.907272	-120.801506	282.51	6.00	288.51
5	36.907710	-120.802332	281.08	6.00	287.08
6	36.908036	-120.802890	280.57	6.00	286.57
7	36.908130	-120.803169	280.11	6.00	286.11
8	36.907753	-120.803378	285.92	6.00	291.92
9	36.907410	-120.803587	288.34	6.00	294.34
10	36.906706	-120.802450	288.31	6.00	294.31
11	36.906063	-120.801624	290.03	6.00	296.03

Name: 119
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 13.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906715	-120.804081	292.99	6.00	298.99
2	36.907204	-120.805196	293.79	6.00	299.79
3	36.907495	-120.806194	292.69	6.00	298.69
4	36.907719	-120.807224	295.72	6.00	301.72
5	36.908010	-120.808297	290.26	6.00	296.26
6	36.908388	-120.809102	288.74	6.00	294.74
7	36.908688	-120.809746	291.60	6.00	297.60
8	36.908877	-120.810432	293.68	6.00	299.68
9	36.908902	-120.811108	295.08	6.00	301.09
10	36.908572	-120.811178	296.94	6.00	302.94
11	36.908259	-120.811248	301.02	6.00	307.02
12	36.908113	-120.810400	302.37	6.00	308.37
13	36.907830	-120.809703	303.91	6.00	309.91
14	36.907307	-120.808619	304.13	6.00	310.13
15	36.907049	-120.807621	304.86	6.00	310.86
16	36.906809	-120.806505	303.10	6.00	309.10
17	36.906543	-120.805626	302.84	6.00	308.84
18	36.906161	-120.804939	302.58	6.00	308.58
19	36.906466	-120.804456	296.49	6.00	302.49

Name: 120
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906706	-120.804054	293.14	6.00	299.14
2	36.907144	-120.803770	289.72	6.00	295.72
3	36.907435	-120.803598	288.46	6.00	294.47
4	36.907796	-120.804649	288.45	6.00	294.45
5	36.908079	-120.805765	287.48	6.00	293.48
6	36.908418	-120.807112	283.22	6.00	289.22
7	36.908799	-120.808319	285.02	6.00	291.02
8	36.909151	-120.809188	281.79	6.00	287.79
9	36.909357	-120.810067	288.36	6.00	294.37
10	36.909357	-120.811076	289.55	6.00	295.55
11	36.909108	-120.811097	291.32	6.00	297.33
12	36.908885	-120.811119	294.88	6.00	300.88
13	36.908885	-120.810443	293.80	6.00	299.80
14	36.908697	-120.809746	291.59	6.00	297.59
15	36.908255	-120.808807	291.61	6.00	297.61
16	36.908016	-120.808277	289.90	6.00	295.90
17	36.907862	-120.807726	292.87	6.00	298.87
18	36.907383	-120.805834	293.90	6.00	299.90
19	36.907075	-120.804941	293.46	6.00	299.46

Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	5.00	394.84
2	36.930831	-120.839764	345.16	5.00	350.16
3	36.931311	-120.839152	331.76	5.00	336.76
4	36.931879	-120.838570	313.43	5.00	318.43
5	36.932249	-120.838334	303.67	5.00	308.67
6	36.932683	-120.838129	292.55	5.00	297.55
7	36.933102	-120.838016	283.04	5.00	288.04
8	36.933551	-120.837962	276.14	5.00	281.14
9	36.935414	-120.837954	266.34	5.00	271.34
10	36.937736	-120.837932	253.93	5.00	258.93
11	36.939812	-120.837911	249.78	5.00	254.78
12	36.941904	-120.837873	241.92	5.00	246.92
13	36.945008	-120.837838	230.33	5.00	235.33
14	36.946799	-120.837838	227.01	5.00	232.01
15	36.948594	-120.837813	207.52	5.00	212.52
16	36.952176	-120.837768	195.16	5.00	200.16
17	36.953786	-120.837762	191.65	5.00	196.65
18	36.955400	-120.837738	187.60	5.00	192.60
19	36.958503	-120.837677	184.65	5.00	189.65
20	36.960861	-120.837691	182.77	5.00	187.77
21	36.963270	-120.837648	180.63	5.00	185.63
22	36.968014	-120.837551	178.62	5.00	183.62
23	36.971867	-120.837524	175.41	5.00	180.41
24	36.973350	-120.837487	172.93	5.00	177.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	5.00	395.98
2	36.861260	-120.781276	387.51	5.00	392.51
3	36.863221	-120.782631	379.39	5.00	384.39
4	36.865259	-120.784039	372.70	5.00	377.70
5	36.867291	-120.785439	370.95	5.00	375.95
6	36.868226	-120.786078	370.80	5.00	375.80
7	36.869165	-120.786731	374.62	5.00	379.62
8	36.870227	-120.787458	372.24	5.00	377.24
9	36.872811	-120.789241	367.41	5.00	372.41
10	36.873987	-120.790051	367.98	5.00	372.98
11	36.876090	-120.791496	372.67	5.00	377.67
12	36.877427	-120.792420	379.00	5.00	384.00
13	36.878413	-120.793104	379.76	5.00	384.77
14	36.879196	-120.793644	383.47	5.00	388.47
15	36.880411	-120.794473	386.63	5.00	391.63
16	36.881831	-120.795455	387.93	5.00	392.93
17	36.882674	-120.796034	389.84	5.00	394.84
18	36.884688	-120.797423	388.03	5.00	393.03
19	36.885889	-120.798255	388.64	5.00	393.64
20	36.887865	-120.799647	384.89	5.00	389.89
21	36.888840	-120.800380	385.22	5.00	390.22
22	36.889802	-120.801152	381.41	5.00	386.41
23	36.891640	-120.802710	376.89	5.00	381.89
24	36.892735	-120.803674	376.35	5.00	381.35
25	36.893599	-120.804416	376.67	5.00	381.67
26	36.894546	-120.805252	376.89	5.00	381.89
27	36.895486	-120.806067	377.65	5.00	382.65
28	36.896430	-120.806891	381.65	5.00	386.65
29	36.897370	-120.807707	382.20	5.00	387.20
30	36.899235	-120.809334	385.47	5.00	390.47
31	36.900185	-120.810164	388.57	5.00	393.57
32	36.900669	-120.810581	387.72	5.00	392.72
33	36.901137	-120.810991	388.60	5.00	393.60
34	36.903198	-120.812792	387.27	5.00	392.27
35	36.905271	-120.814604	383.87	5.00	388.87
36	36.906309	-120.815505	384.00	5.00	389.00
37	36.907344	-120.816403	382.07	5.00	387.07
38	36.908385	-120.817314	379.37	5.00	384.37
39	36.909420	-120.818217	379.13	5.00	384.13
40	36.910429	-120.819096	377.21	5.00	382.21
41	36.911442	-120.819984	376.49	5.00	381.49
42	36.912415	-120.820863	373.69	5.00	378.69
43	36.913366	-120.821782	367.43	5.00	372.43
44	36.914321	-120.822805	365.47	5.00	370.47
45	36.915233	-120.823868	367.60	5.00	372.60
46	36.916132	-120.824979	366.45	5.00	371.45
47	36.917025	-120.826107	374.17	5.00	379.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	5.00	309.72
2	36.946811	-120.860856	315.79	5.00	320.79
3	36.944920	-120.858560	327.30	5.00	332.30
4	36.942472	-120.855567	339.75	5.00	344.75
5	36.941113	-120.853899	344.65	5.00	349.65
6	36.940264	-120.852869	345.01	5.00	350.01
7	36.938843	-120.851133	351.41	5.00	356.42
8	36.937160	-120.849060	358.46	5.00	363.46
9	36.936530	-120.848312	362.19	5.00	367.19
10	36.935415	-120.846941	361.06	5.00	366.06
11	36.934008	-120.845224	356.77	5.00	361.77
12	36.932384	-120.843245	353.56	5.00	358.56
13	36.930747	-120.841287	349.45	5.00	354.45
14	36.929266	-120.839645	350.49	5.00	355.49
15	36.927801	-120.838082	349.50	5.00	354.50
16	36.926290	-120.836545	356.40	5.00	361.40
17	36.924236	-120.834453	372.80	5.00	377.80
18	36.920766	-120.830923	390.69	5.00	395.69
19	36.918107	-120.828198	421.44	5.00	426.44
20	36.916973	-120.827015	429.80	5.00	434.80
21	36.915885	-120.825837	434.02	5.00	439.02
22	36.912651	-120.822211	415.16	5.00	420.16
23	36.911515	-120.820940	405.80	5.00	410.80
24	36.910370	-120.819700	395.93	5.00	400.93
25	36.909432	-120.818759	386.64	5.00	391.64
26	36.908459	-120.817852	385.85	5.00	390.85
27	36.906051	-120.815746	388.11	5.00	393.11
28	36.903644	-120.813649	391.55	5.00	396.55
29	36.901572	-120.811839	394.02	5.00	399.02
30	36.899500	-120.810034	390.78	5.00	395.78
31	36.897490	-120.808272	386.91	5.00	391.91
32	36.894792	-120.805933	382.56	5.00	387.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	5.00	375.01
OP 2	36.928170	-120.838662	352.48	5.00	357.48
OP 3	36.922035	-120.832274	383.43	5.00	388.43
OP 4	36.912179	-120.820990	374.39	5.00	379.39
OP 5	36.900090	-120.810066	387.37	5.00	392.37
OP 6	36.888686	-120.800176	383.36	5.00	388.36
OP 7	36.877627	-120.792463	377.24	5.00	382.25
OP 8	36.866412	-120.784771	371.56	5.00	376.56
OP 9	36.929949	-120.840997	382.20	5.00	387.20
OP 10	36.931418	-120.838949	327.02	5.00	332.02
OP 11	36.933552	-120.837998	276.27	5.00	281.27
OP 12	36.945961	-120.837832	229.99	5.00	234.99
OP 13	36.962157	-120.837614	181.08	5.00	186.08
OP 14	36.865253	-120.783277	365.51	5.00	370.51
OP 15	36.863811	-120.783985	392.58	5.00	397.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
101	SA tracking	SA tracking	0	0	-	
102	SA tracking	SA tracking	0	0	-	
103	SA tracking	SA tracking	0	0	-	
104	SA tracking	SA tracking	0	0	-	
105	SA tracking	SA tracking	0	0	-	
106	SA tracking	SA tracking	0	0	-	
107	SA tracking	SA tracking	0	0	-	
108	SA tracking	SA tracking	0	0	-	
109	SA tracking	SA tracking	0	0	-	
110	SA tracking	SA tracking	0	0	-	
111	SA tracking	SA tracking	0	0	-	
112	SA tracking	SA tracking	0	0	-	
113	SA tracking	SA tracking	0	0	-	
114	SA tracking	SA tracking	0	0	-	
115	SA tracking	SA tracking	0	0	-	
116	SA tracking	SA tracking	0	0	-	
117	SA tracking	SA tracking	0	0	-	
118	SA tracking	SA tracking	0	0	-	
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)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

102 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

103 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

104 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

105 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

106 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

107 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

108 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

109 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

110 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

111 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

113 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

114 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

115 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

116 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

117 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

118 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

119 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

120 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Zeta Solar

Block 1 6ft pan 9ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57584.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

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

PV Array(s)

Total PV footprint area: 250.4 acres

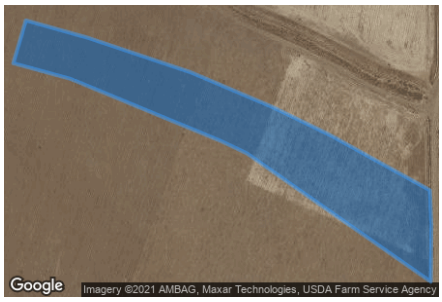
Name: 101
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.899217	-120.800709	321.99	6.00	327.99
2	36.900590	-120.800666	314.06	6.00	320.06
3	36.901662	-120.801943	313.76	6.00	319.76
4	36.902658	-120.802898	312.95	6.00	318.95
5	36.903666	-120.803874	313.40	6.00	319.40
6	36.904517	-120.804679	312.67	6.00	318.67
7	36.905394	-120.805516	311.69	6.00	317.69
8	36.905643	-120.805762	311.74	6.00	317.74
9	36.905373	-120.806240	314.13	6.00	320.13
10	36.905068	-120.806760	319.90	6.00	325.91
11	36.903758	-120.805580	323.09	6.00	329.09
12	36.902516	-120.804443	325.71	6.00	331.71
13	36.901206	-120.803284	327.24	6.00	333.24
14	36.900032	-120.802211	328.03	6.00	334.03

Name: 102
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

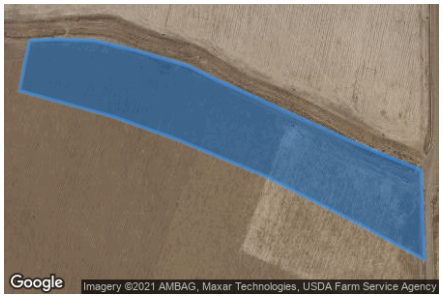
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908135	-120.803169	280.11	6.00	286.11
2	36.908671	-120.804810	282.06	6.00	288.06
3	36.908842	-120.805647	279.27	6.00	285.27
4	36.909057	-120.806924	279.22	6.00	285.22
5	36.909246	-120.807771	280.27	6.00	286.27
6	36.909409	-120.808329	281.85	6.00	287.85
7	36.909674	-120.809359	281.96	6.00	287.96
8	36.909735	-120.810164	286.69	6.00	292.69
9	36.909717	-120.811065	287.10	6.00	293.10
10	36.909524	-120.811076	288.49	6.00	294.49
11	36.909357	-120.811087	289.55	6.00	295.55
12	36.909357	-120.810057	288.21	6.00	294.21
13	36.909125	-120.809091	281.64	6.00	287.64
14	36.908727	-120.808152	287.30	6.00	293.30
15	36.908268	-120.806527	282.52	6.00	288.52
16	36.907984	-120.805357	288.09	6.00	294.09
17	36.907427	-120.803593	288.38	6.00	294.38
18	36.907843	-120.803340	286.10	6.00	292.10

Name: 103
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 6.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906882	-120.800814	279.88	6.00	285.88
2	36.907384	-120.800808	277.56	6.00	283.56
3	36.907689	-120.800824	275.56	6.00	281.56
4	36.908173	-120.801930	279.62	6.00	285.62
5	36.908422	-120.802573	277.41	6.00	283.41
6	36.908727	-120.803475	277.63	6.00	283.63
7	36.909031	-120.804617	278.28	6.00	284.28
8	36.909185	-120.805309	279.28	6.00	285.28
9	36.908808	-120.805449	281.59	6.00	287.59
10	36.908671	-120.804816	282.17	6.00	288.17
11	36.908122	-120.803142	279.92	6.00	285.93
12	36.908015	-120.802858	280.92	6.00	286.92
13	36.907547	-120.802015	282.99	6.00	288.99

Name: 104
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 7.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.907689	-120.800824	275.56	6.00	281.56
2	36.908482	-120.800857	271.62	6.00	277.62
3	36.908748	-120.801667	272.87	6.00	278.87
4	36.909070	-120.802541	271.99	6.00	277.99
5	36.909276	-120.803104	271.94	6.00	277.94
6	36.909409	-120.803448	271.27	6.00	277.27
7	36.909542	-120.804011	272.39	6.00	278.39
8	36.909632	-120.804488	274.31	6.00	280.31
9	36.909644	-120.804934	273.86	6.00	279.86
10	36.909632	-120.805202	272.92	6.00	278.92
11	36.909417	-120.805261	275.89	6.00	281.89
12	36.909185	-120.805315	279.28	6.00	285.28
13	36.908958	-120.804285	276.35	6.00	282.35
14	36.908761	-120.803593	277.57	6.00	283.57
15	36.908443	-120.802632	277.45	6.00	283.45
16	36.908040	-120.801635	277.39	6.00	283.39

Name: 105
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 6.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.909640	-120.805202	272.68	6.00	278.68
2	36.909666	-120.805620	271.85	6.00	277.85
3	36.909602	-120.806012	273.01	6.00	279.01
4	36.909610	-120.806339	273.12	6.00	279.12
5	36.909627	-120.806500	272.07	6.00	278.07
6	36.909533	-120.806758	271.66	6.00	277.66
7	36.909520	-120.806897	271.69	6.00	277.69
8	36.909627	-120.807128	273.71	6.00	279.71
9	36.909872	-120.807267	274.14	6.00	280.14
10	36.910236	-120.807401	274.21	6.00	280.21
11	36.910391	-120.807541	272.88	6.00	278.88
12	36.910494	-120.807723	272.36	6.00	278.36
13	36.910541	-120.808109	274.23	6.00	280.23
14	36.910202	-120.808233	275.42	6.00	281.42
15	36.909700	-120.808437	279.76	6.00	285.76
16	36.909469	-120.808544	282.32	6.00	288.32
17	36.909246	-120.807771	280.27	6.00	286.27
18	36.909065	-120.806983	279.42	6.00	285.42
19	36.908881	-120.805894	280.03	6.00	286.03
20	36.908799	-120.805438	281.90	6.00	287.90
21	36.909246	-120.805309	278.54	6.00	284.54

Name: 106
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.909983	-120.808324	275.63	6.00	281.63
2	36.910018	-120.808297	275.25	6.00	281.25
3	36.910545	-120.808120	274.12	6.00	280.12
4	36.910712	-120.808512	274.91	6.00	280.91
5	36.910966	-120.808984	273.33	6.00	279.33
6	36.911038	-120.809601	273.21	6.00	279.21
7	36.911163	-120.809912	274.49	6.00	280.49
8	36.911262	-120.810201	274.77	6.00	280.77
9	36.911343	-120.810400	272.81	6.00	278.81
10	36.911390	-120.810690	273.93	6.00	279.93
11	36.910747	-120.810936	276.50	6.00	282.50
12	36.910592	-120.810368	278.45	6.00	284.45
13	36.910399	-120.809687	275.90	6.00	281.90
14	36.910193	-120.809048	276.67	6.00	282.67
15	36.909983	-120.808324	275.63	6.00	281.63
16	36.910288	-120.808206	274.17	6.00	280.18
17	36.910541	-120.808115	274.23	6.00	280.23

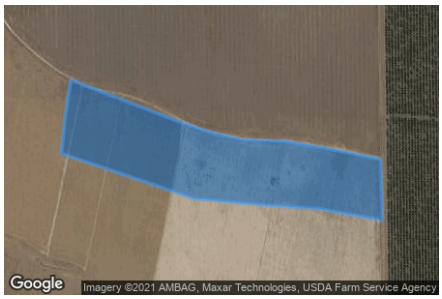
Name: 107
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 5.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.910745	-120.810954	276.53	6.00	282.53
2	36.910350	-120.811163	278.08	6.00	284.08
3	36.910011	-120.811287	278.88	6.00	284.88
4	36.909715	-120.811416	284.89	6.00	290.89
5	36.909720	-120.811062	287.12	6.00	293.13
6	36.909732	-120.810112	286.79	6.00	292.79
7	36.909672	-120.809388	282.34	6.00	288.34
8	36.909458	-120.808556	282.42	6.00	288.42
9	36.909784	-120.808406	277.91	6.00	283.91
10	36.909981	-120.808320	275.63	6.00	281.63
11	36.910239	-120.809179	277.91	6.00	283.91
12	36.910457	-120.809876	276.45	6.00	282.45

Name: 108
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908491	-120.800840	271.29	6.00	277.29
2	36.909863	-120.800765	260.55	6.00	266.55
3	36.910207	-120.800776	258.46	6.00	264.46
4	36.910524	-120.803297	258.99	6.00	264.99
5	36.910811	-120.805717	258.67	6.00	264.67
6	36.911373	-120.807954	260.56	6.00	266.56
7	36.911163	-120.808039	262.45	6.00	268.46
8	36.910601	-120.808233	273.49	6.00	279.49
9	36.910344	-120.807471	273.34	6.00	279.34
10	36.909821	-120.807240	274.15	6.00	280.15
11	36.909550	-120.806900	271.28	6.00	277.28
12	36.909606	-120.805980	272.85	6.00	278.85
13	36.909683	-120.805604	271.54	6.00	277.54
14	36.909632	-120.804488	274.31	6.00	280.31
15	36.909400	-120.803415	271.36	6.00	277.36
16	36.908963	-120.802203	271.81	6.00	277.81

Name: 109
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 20.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

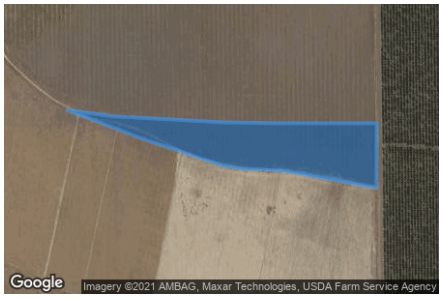


Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911399	-120.800755	252.07	6.00	258.07
2	36.911837	-120.800776	248.90	6.00	254.90
3	36.912480	-120.800797	246.02	6.00	252.02
4	36.912677	-120.802021	244.85	6.00	250.85
5	36.912797	-120.802900	245.22	6.00	251.22
6	36.912823	-120.803855	245.92	6.00	251.92
7	36.912935	-120.804477	245.72	6.00	251.72
8	36.913106	-120.805132	246.47	6.00	252.47
9	36.913887	-120.807664	244.89	6.00	250.89
10	36.913286	-120.807782	247.67	6.00	253.67
11	36.912583	-120.807879	250.93	6.00	256.93
12	36.912184	-120.806398	250.89	6.00	256.89
13	36.911785	-120.804939	252.30	6.00	258.30
14	36.911674	-120.803426	253.48	6.00	259.48
15	36.911605	-120.802171	256.75	6.00	262.75

Name: 110
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 20.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911395	-120.800758	252.07	6.00	258.07
2	36.910760	-120.800769	255.11	6.00	261.11
3	36.910194	-120.800769	258.60	6.00	264.60
4	36.910477	-120.803022	260.99	6.00	266.99
5	36.910777	-120.805586	258.22	6.00	264.22
6	36.911369	-120.807989	260.17	6.00	266.17
7	36.912030	-120.807914	254.55	6.00	260.56
8	36.912570	-120.807871	250.88	6.00	256.88
9	36.912081	-120.806123	252.84	6.00	258.84
10	36.911789	-120.804889	251.01	6.00	257.01
11	36.911635	-120.803172	253.65	6.00	259.65
12	36.911592	-120.802013	254.88	6.00	260.88

Name: 111
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.8 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912484	-120.800801	246.02	6.00	252.02
2	36.913033	-120.800796	243.07	6.00	249.07
3	36.913634	-120.800790	237.72	6.00	243.72
4	36.913634	-120.803000	239.65	6.00	245.65
5	36.913651	-120.804234	238.29	6.00	244.29
6	36.913702	-120.805377	240.37	6.00	246.37
7	36.913754	-120.806605	245.07	6.00	251.07
8	36.913865	-120.807657	245.07	6.00	251.07
9	36.913351	-120.805972	247.95	6.00	253.95
10	36.912879	-120.804202	244.71	6.00	250.71
11	36.912819	-120.803741	245.09	6.00	251.09
12	36.912793	-120.802915	245.41	6.00	251.41

Name: 112
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 19.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.900599	-120.800663	314.02	6.00	320.02
2	36.901527	-120.800673	310.56	6.00	316.56
3	36.902490	-120.800684	304.55	6.00	310.55
4	36.903048	-120.801365	305.58	6.00	311.58
5	36.903640	-120.802100	306.98	6.00	312.98
6	36.904446	-120.802980	302.10	6.00	308.10
7	36.904961	-120.803495	303.69	6.00	309.70
8	36.905733	-120.804289	303.38	6.00	309.38
9	36.906162	-120.804890	302.09	6.00	308.09
10	36.905913	-120.805298	309.88	6.00	315.88
11	36.905665	-120.805770	311.64	6.00	317.64
12	36.904656	-120.804815	311.91	6.00	317.91
13	36.903621	-120.803829	313.27	6.00	319.27
14	36.901598	-120.801864	312.79	6.00	318.79

Name: 113
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.913625	-120.800812	237.76	6.00	243.76
2	36.914268	-120.800801	235.36	6.00	241.36
3	36.914680	-120.800822	233.37	6.00	239.37
4	36.914680	-120.803086	233.97	6.00	239.97
5	36.914680	-120.805307	234.60	6.00	240.60
6	36.914663	-120.806831	238.47	6.00	244.47
7	36.914637	-120.807721	237.41	6.00	243.41
8	36.913891	-120.807700	245.00	6.00	251.00
9	36.913719	-120.806466	244.41	6.00	250.41
10	36.913659	-120.804427	238.18	6.00	244.18
11	36.913621	-120.802941	240.08	6.00	246.08

Name: 114
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905068	-120.806784	320.03	6.00	326.03
2	36.905531	-120.807782	319.96	6.00	325.96
3	36.905874	-120.808673	320.26	6.00	326.26
4	36.906252	-120.809606	319.26	6.00	325.26
5	36.906252	-120.809960	321.50	6.00	327.50
6	36.906972	-120.810738	315.65	6.00	321.65
7	36.907727	-120.811580	306.02	6.00	312.02
8	36.908036	-120.811408	301.42	6.00	307.42
9	36.907530	-120.810400	308.34	6.00	314.34
10	36.906852	-120.809306	311.73	6.00	317.73
11	36.906406	-120.807836	310.86	6.00	316.86
12	36.905865	-120.806334	311.37	6.00	317.37
13	36.905668	-120.805765	311.55	6.00	317.55
14	36.905282	-120.806393	316.59	6.00	322.59

Name: 115
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905668	-120.805765	311.55	6.00	317.55
2	36.905861	-120.805406	309.15	6.00	315.15
3	36.906157	-120.804939	302.58	6.00	308.58
4	36.906526	-120.805572	302.63	6.00	308.63
5	36.906852	-120.806677	303.60	6.00	309.60
6	36.907049	-120.807557	304.71	6.00	310.71
7	36.907264	-120.808522	303.79	6.00	309.79
8	36.907719	-120.809445	303.19	6.00	309.19
9	36.908096	-120.810293	301.87	6.00	307.87
10	36.908186	-120.810765	301.40	6.00	307.40
11	36.908268	-120.811237	300.88	6.00	306.88
12	36.908036	-120.811430	301.25	6.00	307.25
13	36.907633	-120.810625	307.94	6.00	313.94
14	36.907024	-120.809585	309.77	6.00	315.77
15	36.906818	-120.809263	311.66	6.00	317.66
16	36.906457	-120.808029	309.69	6.00	315.69
17	36.905977	-120.806602	311.93	6.00	317.94

Name: 116
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 13.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.902477	-120.800690	304.77	6.00	310.77
2	36.904090	-120.800723	294.72	6.00	300.72
3	36.904493	-120.801291	294.92	6.00	300.92
4	36.905342	-120.802278	294.57	6.00	300.57
5	36.905883	-120.802879	294.81	6.00	300.81
6	36.906526	-120.803705	294.32	6.00	300.32
7	36.906706	-120.804049	293.14	6.00	299.14
8	36.906174	-120.804918	302.17	6.00	308.17
9	36.905814	-120.804397	303.75	6.00	309.75
10	36.905522	-120.804102	305.16	6.00	311.17
11	36.904656	-120.803212	303.38	6.00	309.38
12	36.903952	-120.802450	302.22	6.00	308.22
13	36.903112	-120.801452	306.59	6.00	312.59

Name: 117
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 8.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906706	-120.804049	293.14	6.00	299.14
2	36.907049	-120.803818	290.06	6.00	296.06
3	36.907410	-120.803587	288.34	6.00	294.34
4	36.907015	-120.802890	288.70	6.00	294.70
5	36.906209	-120.801806	290.29	6.00	296.29
6	36.905574	-120.800980	288.76	6.00	294.76
7	36.905462	-120.800776	287.88	6.00	293.88
8	36.904836	-120.800744	291.63	6.00	297.63
9	36.904081	-120.800733	294.90	6.00	300.90
10	36.905008	-120.801892	294.68	6.00	300.69
11	36.905694	-120.802686	295.19	6.00	301.19
12	36.906354	-120.803458	295.19	6.00	301.19

Name: 118
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 7.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905479	-120.800787	287.99	6.00	293.99
2	36.906217	-120.800792	283.51	6.00	289.51
3	36.906886	-120.800819	279.83	6.00	285.83
4	36.907272	-120.801506	282.51	6.00	288.51
5	36.907710	-120.802332	281.08	6.00	287.08
6	36.908036	-120.802890	280.57	6.00	286.57
7	36.908130	-120.803169	280.11	6.00	286.11
8	36.907753	-120.803378	285.92	6.00	291.92
9	36.907410	-120.803587	288.34	6.00	294.34
10	36.906706	-120.802450	288.31	6.00	294.31
11	36.906063	-120.801624	290.03	6.00	296.03

Name: 119
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 13.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906715	-120.804081	292.99	6.00	298.99
2	36.907204	-120.805196	293.79	6.00	299.79
3	36.907495	-120.806194	292.69	6.00	298.69
4	36.907719	-120.807224	295.72	6.00	301.72
5	36.908010	-120.808297	290.26	6.00	296.26
6	36.908388	-120.809102	288.74	6.00	294.74
7	36.908688	-120.809746	291.60	6.00	297.60
8	36.908877	-120.810432	293.68	6.00	299.68
9	36.908902	-120.811108	295.08	6.00	301.09
10	36.908572	-120.811178	296.94	6.00	302.94
11	36.908259	-120.811248	301.02	6.00	307.02
12	36.908113	-120.810400	302.37	6.00	308.37
13	36.907830	-120.809703	303.91	6.00	309.91
14	36.907307	-120.808619	304.13	6.00	310.13
15	36.907049	-120.807621	304.86	6.00	310.86
16	36.906809	-120.806505	303.10	6.00	309.10
17	36.906543	-120.805626	302.84	6.00	308.84
18	36.906161	-120.804939	302.58	6.00	308.58
19	36.906466	-120.804456	296.49	6.00	302.49

Name: 120
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906706	-120.804054	293.14	6.00	299.14
2	36.907144	-120.803770	289.72	6.00	295.72
3	36.907435	-120.803598	288.46	6.00	294.47
4	36.907796	-120.804649	288.45	6.00	294.45
5	36.908079	-120.805765	287.48	6.00	293.48
6	36.908418	-120.807112	283.22	6.00	289.22
7	36.908799	-120.808319	285.02	6.00	291.02
8	36.909151	-120.809188	281.79	6.00	287.79
9	36.909357	-120.810067	288.36	6.00	294.37
10	36.909357	-120.811076	289.55	6.00	295.55
11	36.909108	-120.811097	291.32	6.00	297.33
12	36.908885	-120.811119	294.88	6.00	300.88
13	36.908885	-120.810443	293.80	6.00	299.80
14	36.908697	-120.809746	291.59	6.00	297.59
15	36.908255	-120.808807	291.61	6.00	297.61
16	36.908016	-120.808277	289.90	6.00	295.90
17	36.907862	-120.807726	292.87	6.00	298.87
18	36.907383	-120.805834	293.90	6.00	299.90
19	36.907075	-120.804941	293.46	6.00	299.46

Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	9.00	398.84
2	36.930831	-120.839764	345.16	9.00	354.16
3	36.931311	-120.839152	331.76	9.00	340.76
4	36.931879	-120.838570	313.43	9.00	322.43
5	36.932249	-120.838334	303.67	9.00	312.67
6	36.932683	-120.838129	292.55	9.00	301.55
7	36.933102	-120.838016	283.04	9.00	292.04
8	36.933551	-120.837962	276.14	9.00	285.14
9	36.935414	-120.837954	266.34	9.00	275.34
10	36.937736	-120.837932	253.93	9.00	262.93
11	36.939812	-120.837911	249.78	9.00	258.78
12	36.941904	-120.837873	241.92	9.00	250.92
13	36.945008	-120.837838	230.33	9.00	239.33
14	36.946799	-120.837838	227.01	9.00	236.01
15	36.948594	-120.837813	207.52	9.00	216.52
16	36.952176	-120.837768	195.16	9.00	204.16
17	36.953786	-120.837762	191.65	9.00	200.65
18	36.955400	-120.837738	187.60	9.00	196.60
19	36.958503	-120.837677	184.65	9.00	193.65
20	36.960861	-120.837691	182.77	9.00	191.77
21	36.963270	-120.837648	180.63	9.00	189.63
22	36.968014	-120.837551	178.62	9.00	187.62
23	36.971867	-120.837524	175.41	9.00	184.41
24	36.973350	-120.837487	172.93	9.00	181.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	9.00	399.98
2	36.861260	-120.781276	387.51	9.00	396.51
3	36.863221	-120.782631	379.39	9.00	388.39
4	36.865259	-120.784039	372.70	9.00	381.70
5	36.867291	-120.785439	370.95	9.00	379.95
6	36.868226	-120.786078	370.80	9.00	379.80
7	36.869165	-120.786731	374.62	9.00	383.62
8	36.870227	-120.787458	372.24	9.00	381.24
9	36.872811	-120.789241	367.41	9.00	376.41
10	36.873987	-120.790051	367.98	9.00	376.98
11	36.876090	-120.791496	372.67	9.00	381.67
12	36.877427	-120.792420	379.00	9.00	388.00
13	36.878413	-120.793104	379.76	9.00	388.77
14	36.879196	-120.793644	383.47	9.00	392.47
15	36.880411	-120.794473	386.63	9.00	395.63
16	36.881831	-120.795455	387.93	9.00	396.93
17	36.882674	-120.796034	389.84	9.00	398.84
18	36.884688	-120.797423	388.03	9.00	397.03
19	36.885889	-120.798255	388.64	9.00	397.64
20	36.887865	-120.799647	384.89	9.00	393.89
21	36.888840	-120.800380	385.22	9.00	394.22
22	36.889802	-120.801152	381.41	9.00	390.42
23	36.891640	-120.802710	376.89	9.00	385.89
24	36.892735	-120.803674	376.35	9.00	385.35
25	36.893599	-120.804416	376.67	9.00	385.67
26	36.894546	-120.805252	376.89	9.00	385.89
27	36.895486	-120.806067	377.65	9.00	386.65
28	36.896430	-120.806891	381.65	9.00	390.65
29	36.897370	-120.807707	382.20	9.00	391.20
30	36.899235	-120.809334	385.47	9.00	394.47
31	36.900185	-120.810164	388.57	9.00	397.57
32	36.900669	-120.810581	387.72	9.00	396.72
33	36.901137	-120.810991	388.60	9.00	397.60
34	36.903198	-120.812792	387.27	9.00	396.27
35	36.905271	-120.814604	383.87	9.00	392.87
36	36.906309	-120.815505	384.00	9.00	393.00
37	36.907344	-120.816403	382.07	9.00	391.07
38	36.908385	-120.817314	379.37	9.00	388.37
39	36.909420	-120.818217	379.13	9.00	388.13
40	36.910429	-120.819096	377.21	9.00	386.21
41	36.911442	-120.819984	376.49	9.00	385.49
42	36.912415	-120.820863	373.69	9.00	382.69
43	36.913366	-120.821782	367.43	9.00	376.43
44	36.914321	-120.822805	365.47	9.00	374.47
45	36.915233	-120.823868	367.60	9.00	376.60
46	36.916132	-120.824979	366.45	9.00	375.45
47	36.917025	-120.826107	374.17	9.00	383.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	9.00	313.72
2	36.946811	-120.860856	315.79	9.00	324.79
3	36.944920	-120.858560	327.30	9.00	336.30
4	36.942472	-120.855567	339.75	9.00	348.75
5	36.941113	-120.853899	344.65	9.00	353.65
6	36.940264	-120.852869	345.01	9.00	354.01
7	36.938843	-120.851133	351.41	9.00	360.42
8	36.937160	-120.849060	358.46	9.00	367.46
9	36.936530	-120.848312	362.19	9.00	371.19
10	36.935415	-120.846941	361.06	9.00	370.06
11	36.934008	-120.845224	356.77	9.00	365.77
12	36.932384	-120.843245	353.56	9.00	362.56
13	36.930747	-120.841287	349.45	9.00	358.45
14	36.929266	-120.839645	350.49	9.00	359.49
15	36.927801	-120.838082	349.50	9.00	358.50
16	36.926290	-120.836545	356.40	9.00	365.40
17	36.924236	-120.834453	372.80	9.00	381.80
18	36.920766	-120.830923	390.69	9.00	399.69
19	36.918107	-120.828198	421.44	9.00	430.44
20	36.916973	-120.827015	429.80	9.00	438.80
21	36.915885	-120.825837	434.02	9.00	443.02
22	36.912651	-120.822211	415.16	9.00	424.16
23	36.911515	-120.820940	405.80	9.00	414.80
24	36.910370	-120.819700	395.93	9.00	404.93
25	36.909432	-120.818759	386.64	9.00	395.64
26	36.908459	-120.817852	385.85	9.00	394.85
27	36.906051	-120.815746	388.11	9.00	397.11
28	36.903644	-120.813649	391.55	9.00	400.55
29	36.901572	-120.811839	394.02	9.00	403.02
30	36.899500	-120.810034	390.78	9.00	399.78
31	36.897490	-120.808272	386.91	9.00	395.91
32	36.894792	-120.805933	382.56	9.00	391.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	9.00	379.01
OP 2	36.928170	-120.838662	352.48	9.00	361.48
OP 3	36.922035	-120.832274	383.43	9.00	392.43
OP 4	36.912179	-120.820990	374.39	9.00	383.39
OP 5	36.900090	-120.810066	387.37	9.00	396.37
OP 6	36.888686	-120.800176	383.36	9.00	392.36
OP 7	36.877627	-120.792463	377.24	9.00	386.25
OP 8	36.866412	-120.784771	371.56	9.00	380.56
OP 9	36.929949	-120.840997	382.20	9.00	391.20
OP 10	36.931418	-120.838949	327.02	9.00	336.02
OP 11	36.933552	-120.837998	276.27	9.00	285.27
OP 12	36.945961	-120.837832	229.99	9.00	238.99
OP 13	36.962157	-120.837614	181.08	9.00	190.08
OP 14	36.865253	-120.783277	365.51	9.00	374.51
OP 15	36.863811	-120.783985	392.58	9.00	401.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
101	SA tracking	SA tracking	0	0	-	
102	SA tracking	SA tracking	0	0	-	
103	SA tracking	SA tracking	0	0	-	
104	SA tracking	SA tracking	0	0	-	
105	SA tracking	SA tracking	0	0	-	
106	SA tracking	SA tracking	0	0	-	
107	SA tracking	SA tracking	0	0	-	
108	SA tracking	SA tracking	0	0	-	
109	SA tracking	SA tracking	0	0	-	
110	SA tracking	SA tracking	0	0	-	
111	SA tracking	SA tracking	0	0	-	
112	SA tracking	SA tracking	0	0	-	
113	SA tracking	SA tracking	0	0	-	
114	SA tracking	SA tracking	0	0	-	
115	SA tracking	SA tracking	0	0	-	
116	SA tracking	SA tracking	0	0	-	
117	SA tracking	SA tracking	0	0	-	
118	SA tracking	SA tracking	0	0	-	
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)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

102 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

103 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

104 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

105 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

106 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

107 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

108 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

109 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

110 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

111 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

113 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

114 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

115 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

116 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

117 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

118 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

119 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

120 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Zeta Solar

Block 1 12ft pan 5ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57586.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

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

PV Array(s)

Total PV footprint area: 250.4 acres

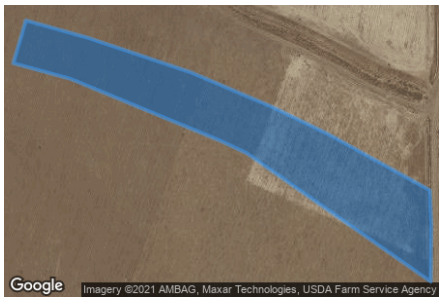
Name: 101
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.899217	-120.800709	321.99	12.00	333.99
2	36.900590	-120.800666	314.06	12.00	326.06
3	36.901662	-120.801943	313.76	12.00	325.76
4	36.902658	-120.802898	312.95	12.00	324.95
5	36.903666	-120.803874	313.40	12.00	325.40
6	36.904517	-120.804679	312.67	12.00	324.68
7	36.905394	-120.805516	311.69	12.00	323.69
8	36.905643	-120.805762	311.74	12.00	323.74
9	36.905373	-120.806240	314.13	12.00	326.13
10	36.905068	-120.806760	319.90	12.00	331.91
11	36.903758	-120.805580	323.09	12.00	335.09
12	36.902516	-120.804443	325.71	12.00	337.71
13	36.901206	-120.803284	327.24	12.00	339.24
14	36.900032	-120.802211	328.03	12.00	340.03

Name: 102
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

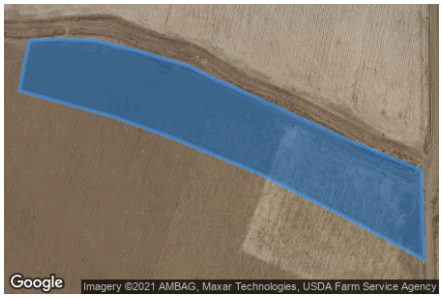
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908135	-120.803169	280.11	12.00	292.11
2	36.908671	-120.804810	282.06	12.00	294.06
3	36.908842	-120.805647	279.27	12.00	291.27
4	36.909057	-120.806924	279.22	12.00	291.22
5	36.909246	-120.807771	280.27	12.00	292.27
6	36.909409	-120.808329	281.85	12.00	293.85
7	36.909674	-120.809359	281.96	12.00	293.96
8	36.909735	-120.810164	286.69	12.00	298.69
9	36.909717	-120.811065	287.10	12.00	299.10
10	36.909524	-120.811076	288.49	12.00	300.49
11	36.909357	-120.811087	289.55	12.00	301.55
12	36.909357	-120.810057	288.21	12.00	300.21
13	36.909125	-120.809091	281.64	12.00	293.64
14	36.908727	-120.808152	287.30	12.00	299.30
15	36.908268	-120.806527	282.52	12.00	294.52
16	36.907984	-120.805357	288.09	12.00	300.09
17	36.907427	-120.803593	288.38	12.00	300.38
18	36.907843	-120.803340	286.10	12.00	298.10

Name: 103
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 6.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906882	-120.800814	279.88	12.00	291.88
2	36.907384	-120.800808	277.56	12.00	289.56
3	36.907689	-120.800824	275.56	12.00	287.56
4	36.908173	-120.801930	279.62	12.00	291.62
5	36.908422	-120.802573	277.41	12.00	289.41
6	36.908727	-120.803475	277.63	12.00	289.63
7	36.909031	-120.804617	278.28	12.00	290.28
8	36.909185	-120.805309	279.28	12.00	291.28
9	36.908808	-120.805449	281.59	12.00	293.59
10	36.908671	-120.804816	282.17	12.00	294.17
11	36.908122	-120.803142	279.92	12.00	291.93
12	36.908015	-120.802858	280.92	12.00	292.92
13	36.907547	-120.802015	282.99	12.00	294.99

Name: 104
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 7.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.907689	-120.800824	275.56	12.00	287.56
2	36.908482	-120.800857	271.62	12.00	283.62
3	36.908748	-120.801667	272.87	12.00	284.87
4	36.909070	-120.802541	271.99	12.00	283.99
5	36.909276	-120.803104	271.94	12.00	283.94
6	36.909409	-120.803448	271.27	12.00	283.27
7	36.909542	-120.804011	272.39	12.00	284.39
8	36.909632	-120.804488	274.31	12.00	286.31
9	36.909644	-120.804934	273.86	12.00	285.86
10	36.909632	-120.805202	272.92	12.00	284.92
11	36.909417	-120.805261	275.89	12.00	287.89
12	36.909185	-120.805315	279.28	12.00	291.28
13	36.908958	-120.804285	276.35	12.00	288.35
14	36.908761	-120.803593	277.57	12.00	289.57
15	36.908443	-120.802632	277.45	12.00	289.45
16	36.908040	-120.801635	277.39	12.00	289.39

Name: 105
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 6.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.909640	-120.805202	272.68	12.00	284.68
2	36.909666	-120.805620	271.85	12.00	283.85
3	36.909602	-120.806012	273.01	12.00	285.01
4	36.909610	-120.806339	273.12	12.00	285.12
5	36.909627	-120.806500	272.07	12.00	284.07
6	36.909533	-120.806758	271.66	12.00	283.66
7	36.909520	-120.806897	271.69	12.00	283.69
8	36.909627	-120.807128	273.71	12.00	285.71
9	36.909872	-120.807267	274.14	12.00	286.14
10	36.910236	-120.807401	274.21	12.00	286.21
11	36.910391	-120.807541	272.88	12.00	284.88
12	36.910494	-120.807723	272.36	12.00	284.36
13	36.910541	-120.808109	274.23	12.00	286.23
14	36.910202	-120.808233	275.42	12.00	287.42
15	36.909700	-120.808437	279.76	12.00	291.76
16	36.909469	-120.808544	282.32	12.00	294.32
17	36.909246	-120.807771	280.27	12.00	292.27
18	36.909065	-120.806983	279.42	12.00	291.42
19	36.908881	-120.805894	280.03	12.00	292.03
20	36.908799	-120.805438	281.90	12.00	293.90
21	36.909246	-120.805309	278.54	12.00	290.54

Name: 106
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.909983	-120.808324	275.63	12.00	287.63
2	36.910018	-120.808297	275.25	12.00	287.25
3	36.910545	-120.808120	274.12	12.00	286.12
4	36.910712	-120.808512	274.91	12.00	286.91
5	36.910966	-120.808984	273.33	12.00	285.33
6	36.911038	-120.809601	273.21	12.00	285.21
7	36.911163	-120.809912	274.49	12.00	286.49
8	36.911262	-120.810201	274.77	12.00	286.77
9	36.911343	-120.810400	272.81	12.00	284.81
10	36.911390	-120.810690	273.93	12.00	285.93
11	36.910747	-120.810936	276.50	12.00	288.50
12	36.910592	-120.810368	278.45	12.00	290.45
13	36.910399	-120.809687	275.90	12.00	287.90
14	36.910193	-120.809048	276.67	12.00	288.67
15	36.909983	-120.808324	275.63	12.00	287.63
16	36.910288	-120.808206	274.17	12.00	286.18
17	36.910541	-120.808115	274.23	12.00	286.23

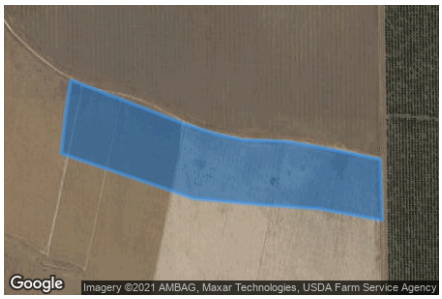
Name: 107
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 5.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.910745	-120.810954	276.53	12.00	288.53
2	36.910350	-120.811163	278.08	12.00	290.08
3	36.910011	-120.811287	278.88	12.00	290.88
4	36.909715	-120.811416	284.89	12.00	296.89
5	36.909720	-120.811062	287.12	12.00	299.13
6	36.909732	-120.810112	286.79	12.00	298.79
7	36.909672	-120.809388	282.34	12.00	294.34
8	36.909458	-120.808556	282.42	12.00	294.42
9	36.909784	-120.808406	277.91	12.00	289.91
10	36.909981	-120.808320	275.63	12.00	287.63
11	36.910239	-120.809179	277.91	12.00	289.91
12	36.910457	-120.809876	276.45	12.00	288.46

Name: 108
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908491	-120.800840	271.29	12.00	283.29
2	36.909863	-120.800765	260.55	12.00	272.55
3	36.910207	-120.800776	258.46	12.00	270.46
4	36.910524	-120.803297	258.99	12.00	270.99
5	36.910811	-120.805717	258.67	12.00	270.67
6	36.911373	-120.807954	260.56	12.00	272.56
7	36.911163	-120.808039	262.45	12.00	274.46
8	36.910601	-120.808233	273.49	12.00	285.49
9	36.910344	-120.807471	273.34	12.00	285.34
10	36.909821	-120.807240	274.15	12.00	286.15
11	36.909550	-120.806900	271.28	12.00	283.28
12	36.909606	-120.805980	272.85	12.00	284.85
13	36.909683	-120.805604	271.54	12.00	283.54
14	36.909632	-120.804488	274.31	12.00	286.31
15	36.909400	-120.803415	271.36	12.00	283.36
16	36.908963	-120.802203	271.81	12.00	283.81

Name: 109
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 20.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

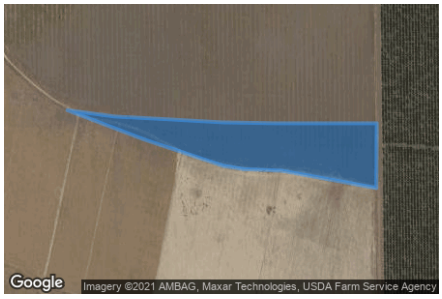


Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911399	-120.800755	252.07	12.00	264.07
2	36.911837	-120.800776	248.90	12.00	260.90
3	36.912480	-120.800797	246.02	12.00	258.02
4	36.912677	-120.802021	244.85	12.00	256.85
5	36.912797	-120.802900	245.22	12.00	257.23
6	36.912823	-120.803855	245.92	12.00	257.92
7	36.912935	-120.804477	245.72	12.00	257.72
8	36.913106	-120.805132	246.47	12.00	258.47
9	36.913887	-120.807664	244.89	12.00	256.89
10	36.913286	-120.807782	247.67	12.00	259.67
11	36.912583	-120.807879	250.93	12.00	262.93
12	36.912184	-120.806398	250.89	12.00	262.89
13	36.911785	-120.804939	252.30	12.00	264.30
14	36.911674	-120.803426	253.48	12.00	265.48
15	36.911605	-120.802171	256.75	12.00	268.75

Name: 110
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 20.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911395	-120.800758	252.07	12.00	264.07
2	36.910760	-120.800769	255.11	12.00	267.11
3	36.910194	-120.800769	258.60	12.00	270.60
4	36.910477	-120.803022	260.99	12.00	272.99
5	36.910777	-120.805586	258.22	12.00	270.22
6	36.911369	-120.807989	260.17	12.00	272.17
7	36.912030	-120.807914	254.55	12.00	266.56
8	36.912570	-120.807871	250.88	12.00	262.88
9	36.912081	-120.806123	252.84	12.00	264.84
10	36.911789	-120.804889	251.01	12.00	263.01
11	36.911635	-120.803172	253.65	12.00	265.65
12	36.911592	-120.802013	254.88	12.00	266.88

Name: 111
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.8 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912484	-120.800801	246.02	12.00	258.02
2	36.913033	-120.800796	243.07	12.00	255.07
3	36.913634	-120.800790	237.72	12.00	249.72
4	36.913634	-120.803000	239.65	12.00	251.65
5	36.913651	-120.804234	238.29	12.00	250.29
6	36.913702	-120.805377	240.37	12.00	252.37
7	36.913754	-120.806605	245.07	12.00	257.07
8	36.913865	-120.807657	245.07	12.00	257.07
9	36.913351	-120.805972	247.95	12.00	259.95
10	36.912879	-120.804202	244.71	12.00	256.71
11	36.912819	-120.803741	245.09	12.00	257.09
12	36.912793	-120.802915	245.41	12.00	257.41

Name: 112
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 19.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.900599	-120.800663	314.02	12.00	326.02
2	36.901527	-120.800673	310.56	12.00	322.56
3	36.902490	-120.800684	304.55	12.00	316.55
4	36.903048	-120.801365	305.58	12.00	317.58
5	36.903640	-120.802100	306.98	12.00	318.98
6	36.904446	-120.802980	302.10	12.00	314.10
7	36.904961	-120.803495	303.69	12.00	315.70
8	36.905733	-120.804289	303.38	12.00	315.38
9	36.906162	-120.804890	302.09	12.00	314.09
10	36.905913	-120.805298	309.88	12.00	321.88
11	36.905665	-120.805770	311.64	12.00	323.64
12	36.904656	-120.804815	311.91	12.00	323.91
13	36.903621	-120.803829	313.27	12.00	325.27
14	36.901598	-120.801864	312.79	12.00	324.79

Name: 113
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.913625	-120.800812	237.76	12.00	249.76
2	36.914268	-120.800801	235.36	12.00	247.36
3	36.914680	-120.800822	233.37	12.00	245.37
4	36.914680	-120.803086	233.97	12.00	245.97
5	36.914680	-120.805307	234.60	12.00	246.60
6	36.914663	-120.806831	238.47	12.00	250.47
7	36.914637	-120.807721	237.41	12.00	249.41
8	36.913891	-120.807700	245.00	12.00	257.00
9	36.913719	-120.806466	244.41	12.00	256.41
10	36.913659	-120.804427	238.18	12.00	250.18
11	36.913621	-120.802941	240.08	12.00	252.08

Name: 114
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905068	-120.806784	320.03	12.00	332.03
2	36.905531	-120.807782	319.96	12.00	331.96
3	36.905874	-120.808673	320.26	12.00	332.26
4	36.906252	-120.809606	319.26	12.00	331.26
5	36.906252	-120.809960	321.50	12.00	333.50
6	36.906972	-120.810738	315.65	12.00	327.65
7	36.907727	-120.811580	306.02	12.00	318.02
8	36.908036	-120.811408	301.42	12.00	313.42
9	36.907530	-120.810400	308.34	12.00	320.34
10	36.906852	-120.809306	311.73	12.00	323.73
11	36.906406	-120.807836	310.86	12.00	322.86
12	36.905865	-120.806334	311.37	12.00	323.37
13	36.905668	-120.805765	311.55	12.00	323.55
14	36.905282	-120.806393	316.59	12.00	328.59

Name: 115
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905668	-120.805765	311.55	12.00	323.55
2	36.905861	-120.805406	309.15	12.00	321.15
3	36.906157	-120.804939	302.58	12.00	314.58
4	36.906526	-120.805572	302.63	12.00	314.63
5	36.906852	-120.806677	303.60	12.00	315.60
6	36.907049	-120.807557	304.71	12.00	316.71
7	36.907264	-120.808522	303.79	12.00	315.79
8	36.907719	-120.809445	303.19	12.00	315.19
9	36.908096	-120.810293	301.87	12.00	313.88
10	36.908186	-120.810765	301.40	12.00	313.40
11	36.908268	-120.811237	300.88	12.00	312.88
12	36.908036	-120.811430	301.25	12.00	313.25
13	36.907633	-120.810625	307.94	12.00	319.94
14	36.907024	-120.809585	309.77	12.00	321.77
15	36.906818	-120.809263	311.66	12.00	323.66
16	36.906457	-120.808029	309.69	12.00	321.69
17	36.905977	-120.806602	311.93	12.00	323.94

Name: 116
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 13.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.902477	-120.800690	304.77	12.00	316.77
2	36.904090	-120.800723	294.72	12.00	306.72
3	36.904493	-120.801291	294.92	12.00	306.92
4	36.905342	-120.802278	294.57	12.00	306.57
5	36.905883	-120.802879	294.81	12.00	306.81
6	36.906526	-120.803705	294.32	12.00	306.32
7	36.906706	-120.804049	293.14	12.00	305.14
8	36.906174	-120.804918	302.17	12.00	314.17
9	36.905814	-120.804397	303.75	12.00	315.75
10	36.905522	-120.804102	305.16	12.00	317.17
11	36.904656	-120.803212	303.38	12.00	315.38
12	36.903952	-120.802450	302.22	12.00	314.22
13	36.903112	-120.801452	306.59	12.00	318.59

Name: 117
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 8.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906706	-120.804049	293.14	12.00	305.14
2	36.907049	-120.803818	290.06	12.00	302.06
3	36.907410	-120.803587	288.34	12.00	300.34
4	36.907015	-120.802890	288.70	12.00	300.70
5	36.906209	-120.801806	290.29	12.00	302.29
6	36.905574	-120.800980	288.76	12.00	300.76
7	36.905462	-120.800776	287.88	12.00	299.88
8	36.904836	-120.800744	291.63	12.00	303.63
9	36.904081	-120.800733	294.90	12.00	306.90
10	36.905008	-120.801892	294.68	12.00	306.69
11	36.905694	-120.802686	295.19	12.00	307.19
12	36.906354	-120.803458	295.19	12.00	307.19

Name: 118
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 7.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905479	-120.800787	287.99	12.00	299.99
2	36.906217	-120.800792	283.51	12.00	295.51
3	36.906886	-120.800819	279.83	12.00	291.83
4	36.907272	-120.801506	282.51	12.00	294.51
5	36.907710	-120.802332	281.08	12.00	293.08
6	36.908036	-120.802890	280.57	12.00	292.57
7	36.908130	-120.803169	280.11	12.00	292.11
8	36.907753	-120.803378	285.92	12.00	297.92
9	36.907410	-120.803587	288.34	12.00	300.34
10	36.906706	-120.802450	288.31	12.00	300.31
11	36.906063	-120.801624	290.03	12.00	302.03

Name: 119
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 13.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906715	-120.804081	292.99	12.00	304.99
2	36.907204	-120.805196	293.79	12.00	305.79
3	36.907495	-120.806194	292.69	12.00	304.69
4	36.907719	-120.807224	295.72	12.00	307.72
5	36.908010	-120.808297	290.26	12.00	302.26
6	36.908388	-120.809102	288.74	12.00	300.74
7	36.908688	-120.809746	291.60	12.00	303.60
8	36.908877	-120.810432	293.68	12.00	305.68
9	36.908902	-120.811108	295.08	12.00	307.09
10	36.908572	-120.811178	296.94	12.00	308.94
11	36.908259	-120.811248	301.02	12.00	313.02
12	36.908113	-120.810400	302.37	12.00	314.37
13	36.907830	-120.809703	303.91	12.00	315.91
14	36.907307	-120.808619	304.13	12.00	316.13
15	36.907049	-120.807621	304.86	12.00	316.86
16	36.906809	-120.806505	303.10	12.00	315.10
17	36.906543	-120.805626	302.84	12.00	314.84
18	36.906161	-120.804939	302.58	12.00	314.58
19	36.906466	-120.804456	296.49	12.00	308.49

Name: 120
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906706	-120.804054	293.14	12.00	305.14
2	36.907144	-120.803770	289.72	12.00	301.72
3	36.907435	-120.803598	288.46	12.00	300.47
4	36.907796	-120.804649	288.45	12.00	300.45
5	36.908079	-120.805765	287.48	12.00	299.48
6	36.908418	-120.807112	283.22	12.00	295.22
7	36.908799	-120.808319	285.02	12.00	297.02
8	36.909151	-120.809188	281.79	12.00	293.79
9	36.909357	-120.810067	288.36	12.00	300.37
10	36.909357	-120.811076	289.55	12.00	301.55
11	36.909108	-120.811097	291.32	12.00	303.33
12	36.908885	-120.811119	294.88	12.00	306.88
13	36.908885	-120.810443	293.80	12.00	305.80
14	36.908697	-120.809746	291.59	12.00	303.59
15	36.908255	-120.808807	291.61	12.00	303.61
16	36.908016	-120.808277	289.90	12.00	301.90
17	36.907862	-120.807726	292.87	12.00	304.87
18	36.907383	-120.805834	293.90	12.00	305.90
19	36.907075	-120.804941	293.46	12.00	305.46

Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	5.00	394.84
2	36.930831	-120.839764	345.16	5.00	350.16
3	36.931311	-120.839152	331.76	5.00	336.76
4	36.931879	-120.838570	313.43	5.00	318.43
5	36.932249	-120.838334	303.67	5.00	308.67
6	36.932683	-120.838129	292.55	5.00	297.55
7	36.933102	-120.838016	283.04	5.00	288.04
8	36.933551	-120.837962	276.14	5.00	281.14
9	36.935414	-120.837954	266.34	5.00	271.34
10	36.937736	-120.837932	253.93	5.00	258.93
11	36.939812	-120.837911	249.78	5.00	254.78
12	36.941904	-120.837873	241.92	5.00	246.92
13	36.945008	-120.837838	230.33	5.00	235.33
14	36.946799	-120.837838	227.01	5.00	232.01
15	36.948594	-120.837813	207.52	5.00	212.52
16	36.952176	-120.837768	195.16	5.00	200.16
17	36.953786	-120.837762	191.65	5.00	196.65
18	36.955400	-120.837738	187.60	5.00	192.60
19	36.958503	-120.837677	184.65	5.00	189.65
20	36.960861	-120.837691	182.77	5.00	187.77
21	36.963270	-120.837648	180.63	5.00	185.63
22	36.968014	-120.837551	178.62	5.00	183.62
23	36.971867	-120.837524	175.41	5.00	180.41
24	36.973350	-120.837487	172.93	5.00	177.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	5.00	395.98
2	36.861260	-120.781276	387.51	5.00	392.51
3	36.863221	-120.782631	379.39	5.00	384.39
4	36.865259	-120.784039	372.70	5.00	377.70
5	36.867291	-120.785439	370.95	5.00	375.95
6	36.868226	-120.786078	370.80	5.00	375.80
7	36.869165	-120.786731	374.62	5.00	379.62
8	36.870227	-120.787458	372.24	5.00	377.24
9	36.872811	-120.789241	367.41	5.00	372.41
10	36.873987	-120.790051	367.98	5.00	372.98
11	36.876090	-120.791496	372.67	5.00	377.67
12	36.877427	-120.792420	379.00	5.00	384.00
13	36.878413	-120.793104	379.76	5.00	384.77
14	36.879196	-120.793644	383.47	5.00	388.47
15	36.880411	-120.794473	386.63	5.00	391.63
16	36.881831	-120.795455	387.93	5.00	392.93
17	36.882674	-120.796034	389.84	5.00	394.84
18	36.884688	-120.797423	388.03	5.00	393.03
19	36.885889	-120.798255	388.64	5.00	393.64
20	36.887865	-120.799647	384.89	5.00	389.89
21	36.888840	-120.800380	385.22	5.00	390.22
22	36.889802	-120.801152	381.41	5.00	386.41
23	36.891640	-120.802710	376.89	5.00	381.89
24	36.892735	-120.803674	376.35	5.00	381.35
25	36.893599	-120.804416	376.67	5.00	381.67
26	36.894546	-120.805252	376.89	5.00	381.89
27	36.895486	-120.806067	377.65	5.00	382.65
28	36.896430	-120.806891	381.65	5.00	386.65
29	36.897370	-120.807707	382.20	5.00	387.20
30	36.899235	-120.809334	385.47	5.00	390.47
31	36.900185	-120.810164	388.57	5.00	393.57
32	36.900669	-120.810581	387.72	5.00	392.72
33	36.901137	-120.810991	388.60	5.00	393.60
34	36.903198	-120.812792	387.27	5.00	392.27
35	36.905271	-120.814604	383.87	5.00	388.87
36	36.906309	-120.815505	384.00	5.00	389.00
37	36.907344	-120.816403	382.07	5.00	387.07
38	36.908385	-120.817314	379.37	5.00	384.37
39	36.909420	-120.818217	379.13	5.00	384.13
40	36.910429	-120.819096	377.21	5.00	382.21
41	36.911442	-120.819984	376.49	5.00	381.49
42	36.912415	-120.820863	373.69	5.00	378.69
43	36.913366	-120.821782	367.43	5.00	372.43
44	36.914321	-120.822805	365.47	5.00	370.47
45	36.915233	-120.823868	367.60	5.00	372.60
46	36.916132	-120.824979	366.45	5.00	371.45
47	36.917025	-120.826107	374.17	5.00	379.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	5.00	309.72
2	36.946811	-120.860856	315.79	5.00	320.79
3	36.944920	-120.858560	327.30	5.00	332.30
4	36.942472	-120.855567	339.75	5.00	344.75
5	36.941113	-120.853899	344.65	5.00	349.65
6	36.940264	-120.852869	345.01	5.00	350.01
7	36.938843	-120.851133	351.41	5.00	356.42
8	36.937160	-120.849060	358.46	5.00	363.46
9	36.936530	-120.848312	362.19	5.00	367.19
10	36.935415	-120.846941	361.06	5.00	366.06
11	36.934008	-120.845224	356.77	5.00	361.77
12	36.932384	-120.843245	353.56	5.00	358.56
13	36.930747	-120.841287	349.45	5.00	354.45
14	36.929266	-120.839645	350.49	5.00	355.49
15	36.927801	-120.838082	349.50	5.00	354.50
16	36.926290	-120.836545	356.40	5.00	361.40
17	36.924236	-120.834453	372.80	5.00	377.80
18	36.920766	-120.830923	390.69	5.00	395.69
19	36.918107	-120.828198	421.44	5.00	426.44
20	36.916973	-120.827015	429.80	5.00	434.80
21	36.915885	-120.825837	434.02	5.00	439.02
22	36.912651	-120.822211	415.16	5.00	420.16
23	36.911515	-120.820940	405.80	5.00	410.80
24	36.910370	-120.819700	395.93	5.00	400.93
25	36.909432	-120.818759	386.64	5.00	391.64
26	36.908459	-120.817852	385.85	5.00	390.85
27	36.906051	-120.815746	388.11	5.00	393.11
28	36.903644	-120.813649	391.55	5.00	396.55
29	36.901572	-120.811839	394.02	5.00	399.02
30	36.899500	-120.810034	390.78	5.00	395.78
31	36.897490	-120.808272	386.91	5.00	391.91
32	36.894792	-120.805933	382.56	5.00	387.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	5.00	375.01
OP 2	36.928170	-120.838662	352.48	5.00	357.48
OP 3	36.922035	-120.832274	383.43	5.00	388.43
OP 4	36.912179	-120.820990	374.39	5.00	379.39
OP 5	36.900090	-120.810066	387.37	5.00	392.37
OP 6	36.888686	-120.800176	383.36	5.00	388.36
OP 7	36.877627	-120.792463	377.24	5.00	382.25
OP 8	36.866412	-120.784771	371.56	5.00	376.56
OP 9	36.929949	-120.840997	382.20	5.00	387.20
OP 10	36.931418	-120.838949	327.02	5.00	332.02
OP 11	36.933552	-120.837998	276.27	5.00	281.27
OP 12	36.945961	-120.837832	229.99	5.00	234.99
OP 13	36.962157	-120.837614	181.08	5.00	186.08
OP 14	36.865253	-120.783277	365.51	5.00	370.51
OP 15	36.863811	-120.783985	392.58	5.00	397.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
101	SA tracking	SA tracking	0	0	-	
102	SA tracking	SA tracking	0	0	-	
103	SA tracking	SA tracking	0	0	-	
104	SA tracking	SA tracking	0	0	-	
105	SA tracking	SA tracking	0	0	-	
106	SA tracking	SA tracking	0	0	-	
107	SA tracking	SA tracking	0	0	-	
108	SA tracking	SA tracking	0	0	-	
109	SA tracking	SA tracking	0	0	-	
110	SA tracking	SA tracking	0	0	-	
111	SA tracking	SA tracking	0	0	-	
112	SA tracking	SA tracking	0	0	-	
113	SA tracking	SA tracking	0	0	-	
114	SA tracking	SA tracking	0	0	-	
115	SA tracking	SA tracking	0	0	-	
116	SA tracking	SA tracking	0	0	-	
117	SA tracking	SA tracking	0	0	-	
118	SA tracking	SA tracking	0	0	-	
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)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

102 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

103 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

104 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

105 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

106 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

107 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

108 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

109 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

110 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

111 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

113 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

114 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

115 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

116 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

117 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

118 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

119 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

120 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Zeta Solar

Block 1 12ft pan 9ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57585.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

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

PV Array(s)

Total PV footprint area: 250.4 acres

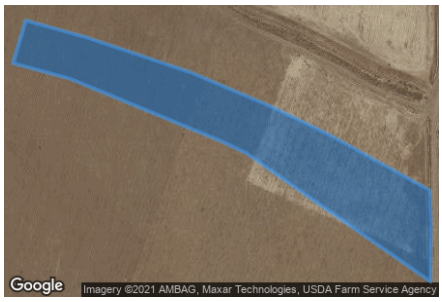
Name: 101
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.899217	-120.800709	321.99	12.00	333.99
2	36.900590	-120.800666	314.06	12.00	326.06
3	36.901662	-120.801943	313.76	12.00	325.76
4	36.902658	-120.802898	312.95	12.00	324.95
5	36.903666	-120.803874	313.40	12.00	325.40
6	36.904517	-120.804679	312.67	12.00	324.68
7	36.905394	-120.805516	311.69	12.00	323.69
8	36.905643	-120.805762	311.74	12.00	323.74
9	36.905373	-120.806240	314.13	12.00	326.13
10	36.905068	-120.806760	319.90	12.00	331.91
11	36.903758	-120.805580	323.09	12.00	335.09
12	36.902516	-120.804443	325.71	12.00	337.71
13	36.901206	-120.803284	327.24	12.00	339.24
14	36.900032	-120.802211	328.03	12.00	340.03

Name: 102
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

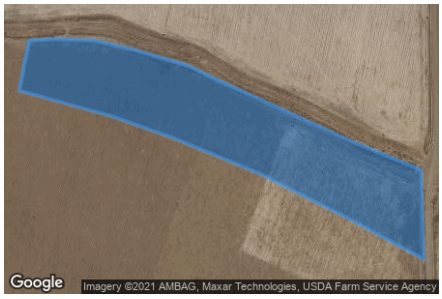
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908135	-120.803169	280.11	12.00	292.11
2	36.908671	-120.804810	282.06	12.00	294.06
3	36.908842	-120.805647	279.27	12.00	291.27
4	36.909057	-120.806924	279.22	12.00	291.22
5	36.909246	-120.807771	280.27	12.00	292.27
6	36.909409	-120.808329	281.85	12.00	293.85
7	36.909674	-120.809359	281.96	12.00	293.96
8	36.909735	-120.810164	286.69	12.00	298.69
9	36.909717	-120.811065	287.10	12.00	299.10
10	36.909524	-120.811076	288.49	12.00	300.49
11	36.909357	-120.811087	289.55	12.00	301.55
12	36.909357	-120.810057	288.21	12.00	300.21
13	36.909125	-120.809091	281.64	12.00	293.64
14	36.908727	-120.808152	287.30	12.00	299.30
15	36.908268	-120.806527	282.52	12.00	294.52
16	36.907984	-120.805357	288.09	12.00	300.09
17	36.907427	-120.803593	288.38	12.00	300.38
18	36.907843	-120.803340	286.10	12.00	298.10

Name: 103
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 6.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906882	-120.800814	279.88	12.00	291.88
2	36.907384	-120.800808	277.56	12.00	289.56
3	36.907689	-120.800824	275.56	12.00	287.56
4	36.908173	-120.801930	279.62	12.00	291.62
5	36.908422	-120.802573	277.41	12.00	289.41
6	36.908727	-120.803475	277.63	12.00	289.63
7	36.909031	-120.804617	278.28	12.00	290.28
8	36.909185	-120.805309	279.28	12.00	291.28
9	36.908808	-120.805449	281.59	12.00	293.59
10	36.908671	-120.804816	282.17	12.00	294.17
11	36.908122	-120.803142	279.92	12.00	291.93
12	36.908015	-120.802858	280.92	12.00	292.92
13	36.907547	-120.802015	282.99	12.00	294.99

Name: 104
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 7.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.907689	-120.800824	275.56	12.00	287.56
2	36.908482	-120.800857	271.62	12.00	283.62
3	36.908748	-120.801667	272.87	12.00	284.87
4	36.909070	-120.802541	271.99	12.00	283.99
5	36.909276	-120.803104	271.94	12.00	283.94
6	36.909409	-120.803448	271.27	12.00	283.27
7	36.909542	-120.804011	272.39	12.00	284.39
8	36.909632	-120.804488	274.31	12.00	286.31
9	36.909644	-120.804934	273.86	12.00	285.86
10	36.909632	-120.805202	272.92	12.00	284.92
11	36.909417	-120.805261	275.89	12.00	287.89
12	36.909185	-120.805315	279.28	12.00	291.28
13	36.908958	-120.804285	276.35	12.00	288.35
14	36.908761	-120.803593	277.57	12.00	289.57
15	36.908443	-120.802632	277.45	12.00	289.45
16	36.908040	-120.801635	277.39	12.00	289.39

Name: 105
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 6.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.909640	-120.805202	272.68	12.00	284.68
2	36.909666	-120.805620	271.85	12.00	283.85
3	36.909602	-120.806012	273.01	12.00	285.01
4	36.909610	-120.806339	273.12	12.00	285.12
5	36.909627	-120.806500	272.07	12.00	284.07
6	36.909533	-120.806758	271.66	12.00	283.66
7	36.909520	-120.806897	271.69	12.00	283.69
8	36.909627	-120.807128	273.71	12.00	285.71
9	36.909872	-120.807267	274.14	12.00	286.14
10	36.910236	-120.807401	274.21	12.00	286.21
11	36.910391	-120.807541	272.88	12.00	284.88
12	36.910494	-120.807723	272.36	12.00	284.36
13	36.910541	-120.808109	274.23	12.00	286.23
14	36.910202	-120.808233	275.42	12.00	287.42
15	36.909700	-120.808437	279.76	12.00	291.76
16	36.909469	-120.808544	282.32	12.00	294.32
17	36.909246	-120.807771	280.27	12.00	292.27
18	36.909065	-120.806983	279.42	12.00	291.42
19	36.908881	-120.805894	280.03	12.00	292.03
20	36.908799	-120.805438	281.90	12.00	293.90
21	36.909246	-120.805309	278.54	12.00	290.54

Name: 106
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.909983	-120.808324	275.63	12.00	287.63
2	36.910018	-120.808297	275.25	12.00	287.25
3	36.910545	-120.808120	274.12	12.00	286.12
4	36.910712	-120.808512	274.91	12.00	286.91
5	36.910966	-120.808984	273.33	12.00	285.33
6	36.911038	-120.809601	273.21	12.00	285.21
7	36.911163	-120.809912	274.49	12.00	286.49
8	36.911262	-120.810201	274.77	12.00	286.77
9	36.911343	-120.810400	272.81	12.00	284.81
10	36.911390	-120.810690	273.93	12.00	285.93
11	36.910747	-120.810936	276.50	12.00	288.50
12	36.910592	-120.810368	278.45	12.00	290.45
13	36.910399	-120.809687	275.90	12.00	287.90
14	36.910193	-120.809048	276.67	12.00	288.67
15	36.909983	-120.808324	275.63	12.00	287.63
16	36.910288	-120.808206	274.17	12.00	286.18
17	36.910541	-120.808115	274.23	12.00	286.23

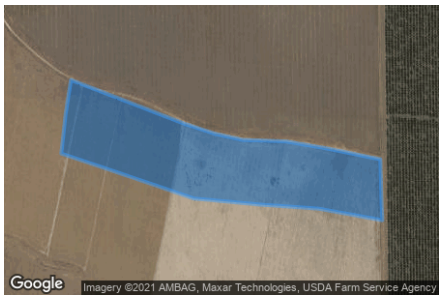
Name: 107
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 5.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.910745	-120.810954	276.53	12.00	288.53
2	36.910350	-120.811163	278.08	12.00	290.08
3	36.910011	-120.811287	278.88	12.00	290.88
4	36.909715	-120.811416	284.89	12.00	296.89
5	36.909720	-120.811062	287.12	12.00	299.13
6	36.909732	-120.810112	286.79	12.00	298.79
7	36.909672	-120.809388	282.34	12.00	294.34
8	36.909458	-120.808556	282.42	12.00	294.42
9	36.909784	-120.808406	277.91	12.00	289.91
10	36.909981	-120.808320	275.63	12.00	287.63
11	36.910239	-120.809179	277.91	12.00	289.91
12	36.910457	-120.809876	276.45	12.00	288.46

Name: 108
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908491	-120.800840	271.29	12.00	283.29
2	36.909863	-120.800765	260.55	12.00	272.55
3	36.910207	-120.800776	258.46	12.00	270.46
4	36.910524	-120.803297	258.99	12.00	270.99
5	36.910811	-120.805717	258.67	12.00	270.67
6	36.911373	-120.807954	260.56	12.00	272.56
7	36.911163	-120.808039	262.45	12.00	274.46
8	36.910601	-120.808233	273.49	12.00	285.49
9	36.910344	-120.807471	273.34	12.00	285.34
10	36.909821	-120.807240	274.15	12.00	286.15
11	36.909550	-120.806900	271.28	12.00	283.28
12	36.909606	-120.805980	272.85	12.00	284.85
13	36.909683	-120.805604	271.54	12.00	283.54
14	36.909632	-120.804488	274.31	12.00	286.31
15	36.909400	-120.803415	271.36	12.00	283.36
16	36.908963	-120.802203	271.81	12.00	283.81

Name: 109
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 20.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

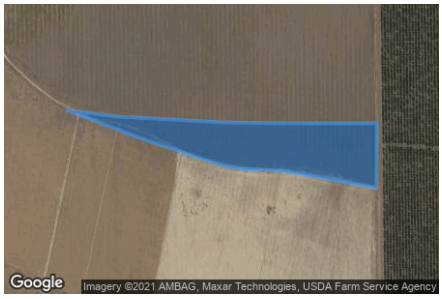


Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911399	-120.800755	252.07	12.00	264.07
2	36.911837	-120.800776	248.90	12.00	260.90
3	36.912480	-120.800797	246.02	12.00	258.02
4	36.912677	-120.802021	244.85	12.00	256.85
5	36.912797	-120.802900	245.22	12.00	257.23
6	36.912823	-120.803855	245.92	12.00	257.92
7	36.912935	-120.804477	245.72	12.00	257.72
8	36.913106	-120.805132	246.47	12.00	258.47
9	36.913887	-120.807664	244.89	12.00	256.89
10	36.913286	-120.807782	247.67	12.00	259.67
11	36.912583	-120.807879	250.93	12.00	262.93
12	36.912184	-120.806398	250.89	12.00	262.89
13	36.911785	-120.804939	252.30	12.00	264.30
14	36.911674	-120.803426	253.48	12.00	265.48
15	36.911605	-120.802171	256.75	12.00	268.75

Name: 110
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 20.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911395	-120.800758	252.07	12.00	264.07
2	36.910760	-120.800769	255.11	12.00	267.11
3	36.910194	-120.800769	258.60	12.00	270.60
4	36.910477	-120.803022	260.99	12.00	272.99
5	36.910777	-120.805586	258.22	12.00	270.22
6	36.911369	-120.807989	260.17	12.00	272.17
7	36.912030	-120.807914	254.55	12.00	266.56
8	36.912570	-120.807871	250.88	12.00	262.88
9	36.912081	-120.806123	252.84	12.00	264.84
10	36.911789	-120.804889	251.01	12.00	263.01
11	36.911635	-120.803172	253.65	12.00	265.65
12	36.911592	-120.802013	254.88	12.00	266.88

Name: 111
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.8 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912484	-120.800801	246.02	12.00	258.02
2	36.913033	-120.800796	243.07	12.00	255.07
3	36.913634	-120.800790	237.72	12.00	249.72
4	36.913634	-120.803000	239.65	12.00	251.65
5	36.913651	-120.804234	238.29	12.00	250.29
6	36.913702	-120.805377	240.37	12.00	252.37
7	36.913754	-120.806605	245.07	12.00	257.07
8	36.913865	-120.807657	245.07	12.00	257.07
9	36.913351	-120.805972	247.95	12.00	259.95
10	36.912879	-120.804202	244.71	12.00	256.71
11	36.912819	-120.803741	245.09	12.00	257.09
12	36.912793	-120.802915	245.41	12.00	257.41

Name: 112
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 19.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.900599	-120.800663	314.02	12.00	326.02
2	36.901527	-120.800673	310.56	12.00	322.56
3	36.902490	-120.800684	304.55	12.00	316.55
4	36.903048	-120.801365	305.58	12.00	317.58
5	36.903640	-120.802100	306.98	12.00	318.98
6	36.904446	-120.802980	302.10	12.00	314.10
7	36.904961	-120.803495	303.69	12.00	315.70
8	36.905733	-120.804289	303.38	12.00	315.38
9	36.906162	-120.804890	302.09	12.00	314.09
10	36.905913	-120.805298	309.88	12.00	321.88
11	36.905665	-120.805770	311.64	12.00	323.64
12	36.904656	-120.804815	311.91	12.00	323.91
13	36.903621	-120.803829	313.27	12.00	325.27
14	36.901598	-120.801864	312.79	12.00	324.79

Name: 113
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.913625	-120.800812	237.76	12.00	249.76
2	36.914268	-120.800801	235.36	12.00	247.36
3	36.914680	-120.800822	233.37	12.00	245.37
4	36.914680	-120.803086	233.97	12.00	245.97
5	36.914680	-120.805307	234.60	12.00	246.60
6	36.914663	-120.806831	238.47	12.00	250.47
7	36.914637	-120.807721	237.41	12.00	249.41
8	36.913891	-120.807700	245.00	12.00	257.00
9	36.913719	-120.806466	244.41	12.00	256.41
10	36.913659	-120.804427	238.18	12.00	250.18
11	36.913621	-120.802941	240.08	12.00	252.08

Name: 114
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905068	-120.806784	320.03	12.00	332.03
2	36.905531	-120.807782	319.96	12.00	331.96
3	36.905874	-120.808673	320.26	12.00	332.26
4	36.906252	-120.809606	319.26	12.00	331.26
5	36.906252	-120.809960	321.50	12.00	333.50
6	36.906972	-120.810738	315.65	12.00	327.65
7	36.907727	-120.811580	306.02	12.00	318.02
8	36.908036	-120.811408	301.42	12.00	313.42
9	36.907530	-120.810400	308.34	12.00	320.34
10	36.906852	-120.809306	311.73	12.00	323.73
11	36.906406	-120.807836	310.86	12.00	322.86
12	36.905865	-120.806334	311.37	12.00	323.37
13	36.905668	-120.805765	311.55	12.00	323.55
14	36.905282	-120.806393	316.59	12.00	328.59

Name: 115
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905668	-120.805765	311.55	12.00	323.55
2	36.905861	-120.805406	309.15	12.00	321.15
3	36.906157	-120.804939	302.58	12.00	314.58
4	36.906526	-120.805572	302.63	12.00	314.63
5	36.906852	-120.806677	303.60	12.00	315.60
6	36.907049	-120.807557	304.71	12.00	316.71
7	36.907264	-120.808522	303.79	12.00	315.79
8	36.907719	-120.809445	303.19	12.00	315.19
9	36.908096	-120.810293	301.87	12.00	313.88
10	36.908186	-120.810765	301.40	12.00	313.40
11	36.908268	-120.811237	300.88	12.00	312.88
12	36.908036	-120.811430	301.25	12.00	313.25
13	36.907633	-120.810625	307.94	12.00	319.94
14	36.907024	-120.809585	309.77	12.00	321.77
15	36.906818	-120.809263	311.66	12.00	323.66
16	36.906457	-120.808029	309.69	12.00	321.69
17	36.905977	-120.806602	311.93	12.00	323.94

Name: 116
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 13.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.902477	-120.800690	304.77	12.00	316.77
2	36.904090	-120.800723	294.72	12.00	306.72
3	36.904493	-120.801291	294.92	12.00	306.92
4	36.905342	-120.802278	294.57	12.00	306.57
5	36.905883	-120.802879	294.81	12.00	306.81
6	36.906526	-120.803705	294.32	12.00	306.32
7	36.906706	-120.804049	293.14	12.00	305.14
8	36.906174	-120.804918	302.17	12.00	314.17
9	36.905814	-120.804397	303.75	12.00	315.75
10	36.905522	-120.804102	305.16	12.00	317.17
11	36.904656	-120.803212	303.38	12.00	315.38
12	36.903952	-120.802450	302.22	12.00	314.22
13	36.903112	-120.801452	306.59	12.00	318.59

Name: 117
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 8.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906706	-120.804049	293.14	12.00	305.14
2	36.907049	-120.803818	290.06	12.00	302.06
3	36.907410	-120.803587	288.34	12.00	300.34
4	36.907015	-120.802890	288.70	12.00	300.70
5	36.906209	-120.801806	290.29	12.00	302.29
6	36.905574	-120.800980	288.76	12.00	300.76
7	36.905462	-120.800776	287.88	12.00	299.88
8	36.904836	-120.800744	291.63	12.00	303.63
9	36.904081	-120.800733	294.90	12.00	306.90
10	36.905008	-120.801892	294.68	12.00	306.69
11	36.905694	-120.802686	295.19	12.00	307.19
12	36.906354	-120.803458	295.19	12.00	307.19

Name: 118
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 7.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.905479	-120.800787	287.99	12.00	299.99
2	36.906217	-120.800792	283.51	12.00	295.51
3	36.906886	-120.800819	279.83	12.00	291.83
4	36.907272	-120.801506	282.51	12.00	294.51
5	36.907710	-120.802332	281.08	12.00	293.08
6	36.908036	-120.802890	280.57	12.00	292.57
7	36.908130	-120.803169	280.11	12.00	292.11
8	36.907753	-120.803378	285.92	12.00	297.92
9	36.907410	-120.803587	288.34	12.00	300.34
10	36.906706	-120.802450	288.31	12.00	300.31
11	36.906063	-120.801624	290.03	12.00	302.03

Name: 119
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 13.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906715	-120.804081	292.99	12.00	304.99
2	36.907204	-120.805196	293.79	12.00	305.79
3	36.907495	-120.806194	292.69	12.00	304.69
4	36.907719	-120.807224	295.72	12.00	307.72
5	36.908010	-120.808297	290.26	12.00	302.26
6	36.908388	-120.809102	288.74	12.00	300.74
7	36.908688	-120.809746	291.60	12.00	303.60
8	36.908877	-120.810432	293.68	12.00	305.68
9	36.908902	-120.811108	295.08	12.00	307.09
10	36.908572	-120.811178	296.94	12.00	308.94
11	36.908259	-120.811248	301.02	12.00	313.02
12	36.908113	-120.810400	302.37	12.00	314.37
13	36.907830	-120.809703	303.91	12.00	315.91
14	36.907307	-120.808619	304.13	12.00	316.13
15	36.907049	-120.807621	304.86	12.00	316.86
16	36.906809	-120.806505	303.10	12.00	315.10
17	36.906543	-120.805626	302.84	12.00	314.84
18	36.906161	-120.804939	302.58	12.00	314.58
19	36.906466	-120.804456	296.49	12.00	308.49

Name: 120
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.906706	-120.804054	293.14	12.00	305.14
2	36.907144	-120.803770	289.72	12.00	301.72
3	36.907435	-120.803598	288.46	12.00	300.47
4	36.907796	-120.804649	288.45	12.00	300.45
5	36.908079	-120.805765	287.48	12.00	299.48
6	36.908418	-120.807112	283.22	12.00	295.22
7	36.908799	-120.808319	285.02	12.00	297.02
8	36.909151	-120.809188	281.79	12.00	293.79
9	36.909357	-120.810067	288.36	12.00	300.37
10	36.909357	-120.811076	289.55	12.00	301.55
11	36.909108	-120.811097	291.32	12.00	303.33
12	36.908885	-120.811119	294.88	12.00	306.88
13	36.908885	-120.810443	293.80	12.00	305.80
14	36.908697	-120.809746	291.59	12.00	303.59
15	36.908255	-120.808807	291.61	12.00	303.61
16	36.908016	-120.808277	289.90	12.00	301.90
17	36.907862	-120.807726	292.87	12.00	304.87
18	36.907383	-120.805834	293.90	12.00	305.90
19	36.907075	-120.804941	293.46	12.00	305.46

Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	9.00	398.84
2	36.930831	-120.839764	345.16	9.00	354.16
3	36.931311	-120.839152	331.76	9.00	340.76
4	36.931879	-120.838570	313.43	9.00	322.43
5	36.932249	-120.838334	303.67	9.00	312.67
6	36.932683	-120.838129	292.55	9.00	301.55
7	36.933102	-120.838016	283.04	9.00	292.04
8	36.933551	-120.837962	276.14	9.00	285.14
9	36.935414	-120.837954	266.34	9.00	275.34
10	36.937736	-120.837932	253.93	9.00	262.93
11	36.939812	-120.837911	249.78	9.00	258.78
12	36.941904	-120.837873	241.92	9.00	250.92
13	36.945008	-120.837838	230.33	9.00	239.33
14	36.946799	-120.837838	227.01	9.00	236.01
15	36.948594	-120.837813	207.52	9.00	216.52
16	36.952176	-120.837768	195.16	9.00	204.16
17	36.953786	-120.837762	191.65	9.00	200.65
18	36.955400	-120.837738	187.60	9.00	196.60
19	36.958503	-120.837677	184.65	9.00	193.65
20	36.960861	-120.837691	182.77	9.00	191.77
21	36.963270	-120.837648	180.63	9.00	189.63
22	36.968014	-120.837551	178.62	9.00	187.62
23	36.971867	-120.837524	175.41	9.00	184.41
24	36.973350	-120.837487	172.93	9.00	181.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	9.00	399.98
2	36.861260	-120.781276	387.51	9.00	396.51
3	36.863221	-120.782631	379.39	9.00	388.39
4	36.865259	-120.784039	372.70	9.00	381.70
5	36.867291	-120.785439	370.95	9.00	379.95
6	36.868226	-120.786078	370.80	9.00	379.80
7	36.869165	-120.786731	374.62	9.00	383.62
8	36.870227	-120.787458	372.24	9.00	381.24
9	36.872811	-120.789241	367.41	9.00	376.41
10	36.873987	-120.790051	367.98	9.00	376.98
11	36.876090	-120.791496	372.67	9.00	381.67
12	36.877427	-120.792420	379.00	9.00	388.00
13	36.878413	-120.793104	379.76	9.00	388.77
14	36.879196	-120.793644	383.47	9.00	392.47
15	36.880411	-120.794473	386.63	9.00	395.63
16	36.881831	-120.795455	387.93	9.00	396.93
17	36.882674	-120.796034	389.84	9.00	398.84
18	36.884688	-120.797423	388.03	9.00	397.03
19	36.885889	-120.798255	388.64	9.00	397.64
20	36.887865	-120.799647	384.89	9.00	393.89
21	36.888840	-120.800380	385.22	9.00	394.22
22	36.889802	-120.801152	381.41	9.00	390.42
23	36.891640	-120.802710	376.89	9.00	385.89
24	36.892735	-120.803674	376.35	9.00	385.35
25	36.893599	-120.804416	376.67	9.00	385.67
26	36.894546	-120.805252	376.89	9.00	385.89
27	36.895486	-120.806067	377.65	9.00	386.65
28	36.896430	-120.806891	381.65	9.00	390.65
29	36.897370	-120.807707	382.20	9.00	391.20
30	36.899235	-120.809334	385.47	9.00	394.47
31	36.900185	-120.810164	388.57	9.00	397.57
32	36.900669	-120.810581	387.72	9.00	396.72
33	36.901137	-120.810991	388.60	9.00	397.60
34	36.903198	-120.812792	387.27	9.00	396.27
35	36.905271	-120.814604	383.87	9.00	392.87
36	36.906309	-120.815505	384.00	9.00	393.00
37	36.907344	-120.816403	382.07	9.00	391.07
38	36.908385	-120.817314	379.37	9.00	388.37
39	36.909420	-120.818217	379.13	9.00	388.13
40	36.910429	-120.819096	377.21	9.00	386.21
41	36.911442	-120.819984	376.49	9.00	385.49
42	36.912415	-120.820863	373.69	9.00	382.69
43	36.913366	-120.821782	367.43	9.00	376.43
44	36.914321	-120.822805	365.47	9.00	374.47
45	36.915233	-120.823868	367.60	9.00	376.60
46	36.916132	-120.824979	366.45	9.00	375.45
47	36.917025	-120.826107	374.17	9.00	383.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	9.00	313.72
2	36.946811	-120.860856	315.79	9.00	324.79
3	36.944920	-120.858560	327.30	9.00	336.30
4	36.942472	-120.855567	339.75	9.00	348.75
5	36.941113	-120.853899	344.65	9.00	353.65
6	36.940264	-120.852869	345.01	9.00	354.01
7	36.938843	-120.851133	351.41	9.00	360.42
8	36.937160	-120.849060	358.46	9.00	367.46
9	36.936530	-120.848312	362.19	9.00	371.19
10	36.935415	-120.846941	361.06	9.00	370.06
11	36.934008	-120.845224	356.77	9.00	365.77
12	36.932384	-120.843245	353.56	9.00	362.56
13	36.930747	-120.841287	349.45	9.00	358.45
14	36.929266	-120.839645	350.49	9.00	359.49
15	36.927801	-120.838082	349.50	9.00	358.50
16	36.926290	-120.836545	356.40	9.00	365.40
17	36.924236	-120.834453	372.80	9.00	381.80
18	36.920766	-120.830923	390.69	9.00	399.69
19	36.918107	-120.828198	421.44	9.00	430.44
20	36.916973	-120.827015	429.80	9.00	438.80
21	36.915885	-120.825837	434.02	9.00	443.02
22	36.912651	-120.822211	415.16	9.00	424.16
23	36.911515	-120.820940	405.80	9.00	414.80
24	36.910370	-120.819700	395.93	9.00	404.93
25	36.909432	-120.818759	386.64	9.00	395.64
26	36.908459	-120.817852	385.85	9.00	394.85
27	36.906051	-120.815746	388.11	9.00	397.11
28	36.903644	-120.813649	391.55	9.00	400.55
29	36.901572	-120.811839	394.02	9.00	403.02
30	36.899500	-120.810034	390.78	9.00	399.78
31	36.897490	-120.808272	386.91	9.00	395.91
32	36.894792	-120.805933	382.56	9.00	391.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	9.00	379.01
OP 2	36.928170	-120.838662	352.48	9.00	361.48
OP 3	36.922035	-120.832274	383.43	9.00	392.43
OP 4	36.912179	-120.820990	374.39	9.00	383.39
OP 5	36.900090	-120.810066	387.37	9.00	396.37
OP 6	36.888686	-120.800176	383.36	9.00	392.36
OP 7	36.877627	-120.792463	377.24	9.00	386.25
OP 8	36.866412	-120.784771	371.56	9.00	380.56
OP 9	36.929949	-120.840997	382.20	9.00	391.20
OP 10	36.931418	-120.838949	327.02	9.00	336.02
OP 11	36.933552	-120.837998	276.27	9.00	285.27
OP 12	36.945961	-120.837832	229.99	9.00	238.99
OP 13	36.962157	-120.837614	181.08	9.00	190.08
OP 14	36.865253	-120.783277	365.51	9.00	374.51
OP 15	36.863811	-120.783985	392.58	9.00	401.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
101	SA tracking	SA tracking	0	0	-	
102	SA tracking	SA tracking	0	0	-	
103	SA tracking	SA tracking	0	0	-	
104	SA tracking	SA tracking	0	0	-	
105	SA tracking	SA tracking	0	0	-	
106	SA tracking	SA tracking	0	0	-	
107	SA tracking	SA tracking	0	0	-	
108	SA tracking	SA tracking	0	0	-	
109	SA tracking	SA tracking	0	0	-	
110	SA tracking	SA tracking	0	0	-	
111	SA tracking	SA tracking	0	0	-	
112	SA tracking	SA tracking	0	0	-	
113	SA tracking	SA tracking	0	0	-	
114	SA tracking	SA tracking	0	0	-	
115	SA tracking	SA tracking	0	0	-	
116	SA tracking	SA tracking	0	0	-	
117	SA tracking	SA tracking	0	0	-	
118	SA tracking	SA tracking	0	0	-	
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)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

102 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

103 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

104 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

105 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

106 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

107 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

108 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

109 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

110 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

111 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

112 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

113 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

114 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

115 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

116 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

117 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

118 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

119 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

120 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Zeta Solar

Block 2 6ft pan 5ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57578.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

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

PV Array(s)

Total PV footprint area: 339.4 acres

Name: 201
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.7 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.907722	-120.811588	306.31	6.00	312.31
2	36.908296	-120.811245	300.11	6.00	306.11
3	36.910432	-120.813552	288.70	6.00	294.70
4	36.911934	-120.815354	293.11	6.00	299.11
5	36.914061	-120.817983	307.91	6.00	313.91
6	36.913675	-120.818476	314.95	6.00	320.95
7	36.911736	-120.816255	310.93	6.00	316.93
8	36.909789	-120.814228	309.71	6.00	315.71

Name: 202
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 18.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908288	-120.811256	300.11	6.00	306.11
2	36.908974	-120.811105	294.00	6.00	300.00
3	36.909257	-120.811105	290.89	6.00	296.89
4	36.909712	-120.811084	287.16	6.00	293.16
5	36.909720	-120.811438	285.07	6.00	291.07
6	36.912028	-120.813981	280.42	6.00	286.42
7	36.914215	-120.816781	297.58	6.00	303.58
8	36.914576	-120.817221	297.52	6.00	303.52
9	36.914078	-120.817972	307.84	6.00	313.84
10	36.912174	-120.815633	294.26	6.00	300.26
11	36.910492	-120.813616	288.45	6.00	294.45

Name: 203
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 21.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911389	-120.810701	274.04	6.00	280.04
2	36.911500	-120.811066	269.44	6.00	275.44
3	36.911415	-120.811506	272.19	6.00	278.19
4	36.912255	-120.812718	270.56	6.00	276.57
5	36.912659	-120.813019	269.42	6.00	275.42
6	36.913225	-120.813051	266.91	6.00	272.91
7	36.913834	-120.813577	269.94	6.00	275.94
8	36.914597	-120.813866	269.17	6.00	275.17
9	36.915052	-120.814092	269.28	6.00	275.28
10	36.915729	-120.814371	267.93	6.00	273.93
11	36.914855	-120.814902	277.87	6.00	283.87
12	36.914014	-120.815282	283.59	6.00	289.59
13	36.913319	-120.815653	289.68	6.00	295.68
14	36.912212	-120.814242	279.50	6.00	285.50
15	36.911633	-120.813566	278.49	6.00	284.49
16	36.911054	-120.812933	277.64	6.00	283.64
17	36.909699	-120.811442	285.26	6.00	291.26
18	36.910471	-120.811120	276.15	6.00	282.15
19	36.910909	-120.810868	276.31	6.00	282.32

Name: 204
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915729	-120.814362	267.51	6.00	273.51
2	36.916248	-120.814657	268.02	6.00	274.02
3	36.916609	-120.814797	270.12	6.00	276.12
4	36.917188	-120.814802	267.64	6.00	273.64
5	36.917453	-120.814952	267.80	6.00	273.80
6	36.916579	-120.815494	276.31	6.00	282.31
7	36.915609	-120.816347	285.14	6.00	291.14
8	36.914576	-120.817216	297.52	6.00	303.52
9	36.913945	-120.816433	293.60	6.00	299.60
10	36.913332	-120.815655	289.59	6.00	295.59
11	36.914245	-120.815167	280.34	6.00	286.34
12	36.914919	-120.814872	277.53	6.00	283.53

Name: 205
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.910600	-120.808209	273.44	6.00	279.44
2	36.911029	-120.808070	264.12	6.00	270.12
3	36.911372	-120.807984	260.25	6.00	266.25
4	36.911655	-120.808955	262.31	6.00	268.31
5	36.912152	-120.810414	263.04	6.00	269.04
6	36.912680	-120.811701	261.30	6.00	267.30
7	36.913229	-120.813059	266.77	6.00	272.77
8	36.912663	-120.813032	269.68	6.00	275.68
9	36.912268	-120.812721	270.43	6.00	276.43
10	36.911410	-120.811508	272.19	6.00	278.19
11	36.911509	-120.811068	269.25	6.00	275.25
12	36.911389	-120.810687	273.93	6.00	279.93
13	36.911123	-120.809813	274.54	6.00	280.54
14	36.911029	-120.809513	272.85	6.00	278.85
15	36.910973	-120.808998	273.52	6.00	279.52

Name: 206
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912601	-120.807886	251.02	6.00	257.02
2	36.913476	-120.810783	254.00	6.00	260.00
3	36.914119	-120.812897	262.91	6.00	268.91
4	36.914908	-120.813294	259.36	6.00	265.36
5	36.914582	-120.813873	269.28	6.00	275.28
6	36.913836	-120.813583	269.93	6.00	275.93
7	36.913201	-120.813026	266.96	6.00	272.96
8	36.912172	-120.810451	263.02	6.00	269.02
9	36.911365	-120.808015	259.93	6.00	265.93
10	36.911932	-120.807940	255.54	6.00	261.54

Name: 207
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912609	-120.807886	251.07	6.00	257.07
2	36.913235	-120.807801	247.75	6.00	253.75
3	36.913836	-120.807650	245.33	6.00	251.33
4	36.914522	-120.808788	242.93	6.00	248.93
5	36.915260	-120.809442	242.43	6.00	248.43
6	36.915612	-120.810043	242.38	6.00	248.38
7	36.915895	-120.810966	242.21	6.00	248.21
8	36.915311	-120.812285	252.18	6.00	258.18
9	36.914900	-120.813272	259.08	6.00	265.08
10	36.914132	-120.812875	262.82	6.00	268.82
11	36.913587	-120.811191	255.50	6.00	261.51

Name: 208
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.914683	-120.800825	233.40	6.00	239.40
2	36.915650	-120.800828	228.24	6.00	234.24
3	36.915605	-120.803247	229.23	6.00	235.23
4	36.915622	-120.805723	232.12	6.00	238.12
5	36.915697	-120.808215	235.31	6.00	241.31
6	36.915925	-120.811001	242.32	6.00	248.32
7	36.915766	-120.810535	238.86	6.00	244.86
8	36.915642	-120.810057	242.39	6.00	248.39
9	36.915350	-120.809628	242.28	6.00	248.28
10	36.915050	-120.809231	242.59	6.00	248.59
11	36.914363	-120.808609	244.21	6.00	250.21
12	36.913892	-120.807729	245.08	6.00	251.08
13	36.914647	-120.807750	237.21	6.00	243.21
14	36.914672	-120.804940	233.82	6.00	239.82
15	36.914681	-120.802952	234.14	6.00	240.14

Name: 209
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 19.7 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915660	-120.800829	228.11	6.00	234.11
2	36.916294	-120.800861	224.05	6.00	230.05
3	36.916861	-120.800850	222.48	6.00	228.48
4	36.916998	-120.802084	221.88	6.00	227.88
5	36.917084	-120.803243	220.14	6.00	226.14
6	36.917367	-120.804155	218.65	6.00	224.65
7	36.917461	-120.804938	219.73	6.00	225.73
8	36.917512	-120.805646	220.58	6.00	226.58
9	36.917701	-120.805957	219.17	6.00	225.17
10	36.916740	-120.805947	225.46	6.00	231.46
11	36.915617	-120.806022	231.33	6.00	237.33
12	36.915617	-120.803704	227.99	6.00	233.99
13	36.915625	-120.802084	230.70	6.00	236.70

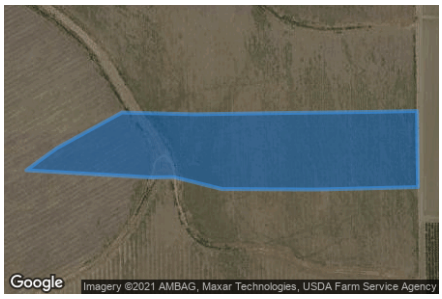
Name: 210
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 18.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915630	-120.806025	231.46	6.00	237.46
2	36.916625	-120.805961	226.25	6.00	232.25
3	36.917663	-120.805961	219.50	6.00	225.50
4	36.918126	-120.806197	217.92	6.00	223.92
5	36.918718	-120.806315	217.30	6.00	223.30
6	36.918718	-120.806787	219.33	6.00	225.33
7	36.917800	-120.807377	224.20	6.00	230.21
8	36.916925	-120.808707	231.41	6.00	237.41
9	36.915913	-120.811036	242.57	6.00	248.58
10	36.915758	-120.809083	237.99	6.00	243.99
11	36.915673	-120.807474	232.98	6.00	238.98

Name: 211
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 17.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

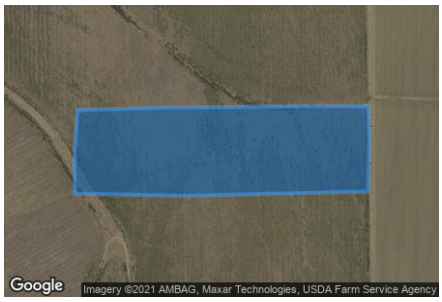
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916865	-120.800875	222.53	6.00	228.53
2	36.917628	-120.800918	217.30	6.00	223.30
3	36.918014	-120.800908	215.72	6.00	221.72
4	36.918546	-120.800886	213.55	6.00	219.55
5	36.918546	-120.801648	213.76	6.00	219.76
6	36.918503	-120.803643	214.38	6.00	220.38
7	36.918512	-120.805242	215.52	6.00	221.52
8	36.918662	-120.805929	217.89	6.00	223.89
9	36.918718	-120.806293	216.90	6.00	222.90
10	36.918726	-120.806326	217.70	6.00	223.70
11	36.918109	-120.806229	218.59	6.00	224.59
12	36.917620	-120.805939	219.76	6.00	225.76
13	36.917482	-120.805628	220.31	6.00	226.31
14	36.917465	-120.804963	219.71	6.00	225.71
15	36.917354	-120.804158	218.85	6.00	224.85
16	36.917088	-120.803236	220.09	6.00	226.09
17	36.916994	-120.802088	222.01	6.00	228.01

Name: 212
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918563	-120.800908	213.37	6.00	219.37
2	36.919918	-120.800929	208.28	6.00	214.28
3	36.919903	-120.801964	208.69	6.00	214.69
4	36.919884	-120.803826	209.94	6.00	215.94
5	36.919861	-120.805870	211.68	6.00	217.68
6	36.919893	-120.807474	219.55	6.00	225.55
7	36.919258	-120.808922	221.71	6.00	227.71
8	36.918863	-120.809598	227.77	6.00	233.77
9	36.918735	-120.806819	219.40	6.00	225.40
10	36.918743	-120.806336	217.89	6.00	223.89
11	36.918529	-120.805253	215.35	6.00	221.35
12	36.918520	-120.803161	213.24	6.00	219.24

Name: 213
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 24.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919927	-120.800961	208.12	6.00	214.12
2	36.920888	-120.800940	204.10	6.00	210.10
3	36.921428	-120.800961	203.62	6.00	209.62
4	36.921420	-120.803214	202.44	6.00	208.44
5	36.921402	-120.805457	204.20	6.00	210.20
6	36.921359	-120.807409	210.55	6.00	216.55
7	36.920673	-120.807474	217.19	6.00	223.19
8	36.919893	-120.807474	219.55	6.00	225.55
9	36.919850	-120.805027	209.55	6.00	215.55
10	36.919884	-120.803322	208.54	6.00	214.54

Name: 214
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916393	-120.809995	236.65	6.00	242.65
2	36.918143	-120.811164	239.17	6.00	245.17
3	36.918829	-120.811583	238.55	6.00	244.55
4	36.919764	-120.809587	224.74	6.00	230.74
5	36.920639	-120.807460	217.25	6.00	223.26
6	36.920427	-120.807468	218.06	6.00	224.06
7	36.920270	-120.807462	219.05	6.00	225.05
8	36.920199	-120.807476	219.43	6.00	225.43
9	36.919884	-120.807495	219.46	6.00	225.46
10	36.919275	-120.808911	221.70	6.00	227.70
11	36.918838	-120.809609	227.78	6.00	233.78
12	36.918743	-120.806808	219.32	6.00	225.32
13	36.917748	-120.807409	224.48	6.00	230.48
14	36.916942	-120.808718	231.41	6.00	237.41

Name: 215
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916929	-120.814791	269.17	6.00	275.17
2	36.917534	-120.812575	252.40	6.00	258.40
3	36.918010	-120.811068	238.47	6.00	244.47
4	36.917560	-120.810800	238.22	6.00	244.22
5	36.916367	-120.809995	236.69	6.00	242.69
6	36.915733	-120.811336	243.62	6.00	249.62
7	36.915226	-120.812527	251.95	6.00	257.95
8	36.914875	-120.813342	260.37	6.00	266.37
9	36.914583	-120.813911	269.77	6.00	275.77
10	36.915492	-120.814276	267.04	6.00	273.04
11	36.915947	-120.814501	267.89	6.00	273.89
12	36.916393	-120.814758	269.59	6.00	275.59
13	36.917036	-120.814791	268.85	6.00	274.85

Name: 216
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 15.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918006	-120.811064	238.35	6.00	244.35
2	36.918881	-120.811611	238.14	6.00	244.14
3	36.919502	-120.812073	238.21	6.00	244.21
4	36.919078	-120.813564	247.92	6.00	253.92
5	36.918529	-120.815372	266.29	6.00	272.29
6	36.917971	-120.815151	266.31	6.00	272.31
7	36.917448	-120.814929	267.62	6.00	273.62
8	36.917182	-120.814805	267.66	6.00	273.66
9	36.916946	-120.814780	269.15	6.00	275.15
10	36.917467	-120.812836	253.75	6.00	259.75

Name: 217
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 11.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

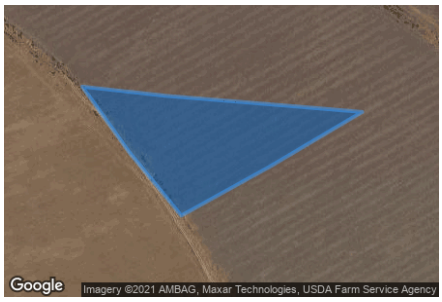
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918829	-120.811595	238.64	6.00	244.64
2	36.919438	-120.810276	226.94	6.00	232.94
3	36.919756	-120.809594	224.74	6.00	230.74
4	36.920510	-120.810179	224.74	6.00	230.74
5	36.921535	-120.810925	221.82	6.00	227.82
6	36.920931	-120.812266	231.56	6.00	237.56
7	36.920626	-120.812936	238.90	6.00	244.90
8	36.919927	-120.812432	239.24	6.00	245.24
9	36.919485	-120.812067	238.32	6.00	244.32

Name: 218
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 9.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919747	-120.809600	224.79	6.00	230.79
2	36.920139	-120.808672	219.61	6.00	225.61
3	36.920641	-120.807484	217.42	6.00	223.42
4	36.920836	-120.807465	213.00	6.00	219.00
5	36.921355	-120.807390	210.21	6.00	216.21
6	36.921407	-120.808913	219.10	6.00	225.10
7	36.921467	-120.809428	218.17	6.00	224.17
8	36.921531	-120.809991	220.12	6.00	226.12
9	36.921540	-120.810925	221.82	6.00	227.82
10	36.920716	-120.810345	224.19	6.00	230.19
11	36.919876	-120.809691	224.64	6.00	230.64
12	36.919730	-120.809562	225.21	6.00	231.21

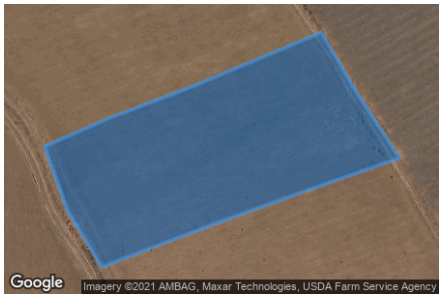
Name: 219
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.921537	-120.810932	221.78	6.00	227.78
2	36.921679	-120.813104	231.94	6.00	237.94
3	36.921760	-120.814038	238.06	6.00	244.06
4	36.921177	-120.813512	239.96	6.00	245.96
5	36.920624	-120.812938	239.00	6.00	245.00
6	36.921053	-120.811962	229.13	6.00	235.13



Name: 220
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918535	-120.815375	266.29	6.00	272.29
2	36.918921	-120.814114	253.65	6.00	259.65
3	36.919212	-120.813100	243.96	6.00	249.96
4	36.919500	-120.812076	238.40	6.00	244.40
5	36.920134	-120.812591	239.88	6.00	245.88
6	36.920615	-120.812939	239.10	6.00	245.10
7	36.920139	-120.814361	249.70	6.00	255.70
8	36.919843	-120.815332	259.71	6.00	265.71
9	36.919603	-120.816013	265.28	6.00	271.28
10	36.919041	-120.815761	266.64	6.00	272.64



Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	5.00	394.84
2	36.930831	-120.839764	345.16	5.00	350.16
3	36.931311	-120.839152	331.76	5.00	336.76
4	36.931879	-120.838570	313.43	5.00	318.43
5	36.932249	-120.838334	303.67	5.00	308.67
6	36.932683	-120.838129	292.55	5.00	297.55
7	36.933102	-120.838016	283.04	5.00	288.04
8	36.933551	-120.837962	276.14	5.00	281.14
9	36.935414	-120.837954	266.34	5.00	271.34
10	36.937736	-120.837932	253.93	5.00	258.93
11	36.939812	-120.837911	249.78	5.00	254.78
12	36.941904	-120.837873	241.92	5.00	246.92
13	36.945008	-120.837838	230.33	5.00	235.33
14	36.946799	-120.837838	227.01	5.00	232.01
15	36.948594	-120.837813	207.52	5.00	212.52
16	36.952176	-120.837768	195.16	5.00	200.16
17	36.953786	-120.837762	191.65	5.00	196.65
18	36.955400	-120.837738	187.60	5.00	192.60
19	36.958503	-120.837677	184.65	5.00	189.65
20	36.960861	-120.837691	182.77	5.00	187.77
21	36.963270	-120.837648	180.63	5.00	185.63
22	36.968014	-120.837551	178.62	5.00	183.62
23	36.971867	-120.837524	175.41	5.00	180.41
24	36.973350	-120.837487	172.93	5.00	177.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	5.00	395.98
2	36.861260	-120.781276	387.51	5.00	392.51
3	36.863221	-120.782631	379.39	5.00	384.39
4	36.865259	-120.784039	372.70	5.00	377.70
5	36.867291	-120.785439	370.95	5.00	375.95
6	36.868226	-120.786078	370.80	5.00	375.80
7	36.869165	-120.786731	374.62	5.00	379.62
8	36.870227	-120.787458	372.24	5.00	377.24
9	36.872811	-120.789241	367.41	5.00	372.41
10	36.873987	-120.790051	367.98	5.00	372.98
11	36.876090	-120.791496	372.67	5.00	377.67
12	36.877427	-120.792420	379.00	5.00	384.00
13	36.878413	-120.793104	379.76	5.00	384.77
14	36.879196	-120.793644	383.47	5.00	388.47
15	36.880411	-120.794473	386.63	5.00	391.63
16	36.881831	-120.795455	387.93	5.00	392.93
17	36.882674	-120.796034	389.84	5.00	394.84
18	36.884688	-120.797423	388.03	5.00	393.03
19	36.885889	-120.798255	388.64	5.00	393.64
20	36.887865	-120.799647	384.89	5.00	389.89
21	36.888840	-120.800380	385.22	5.00	390.22
22	36.889802	-120.801152	381.41	5.00	386.41
23	36.891640	-120.802710	376.89	5.00	381.89
24	36.892735	-120.803674	376.35	5.00	381.35
25	36.893599	-120.804416	376.67	5.00	381.67
26	36.894546	-120.805252	376.89	5.00	381.89
27	36.895486	-120.806067	377.65	5.00	382.65
28	36.896430	-120.806891	381.65	5.00	386.65
29	36.897370	-120.807707	382.20	5.00	387.20
30	36.899235	-120.809334	385.47	5.00	390.47
31	36.900185	-120.810164	388.57	5.00	393.57
32	36.900669	-120.810581	387.72	5.00	392.72
33	36.901137	-120.810991	388.60	5.00	393.60
34	36.903198	-120.812792	387.27	5.00	392.27
35	36.905271	-120.814604	383.87	5.00	388.87
36	36.906309	-120.815505	384.00	5.00	389.00
37	36.907344	-120.816403	382.07	5.00	387.07
38	36.908385	-120.817314	379.37	5.00	384.37
39	36.909420	-120.818217	379.13	5.00	384.13
40	36.910429	-120.819096	377.21	5.00	382.21
41	36.911442	-120.819984	376.49	5.00	381.49
42	36.912415	-120.820863	373.69	5.00	378.69
43	36.913366	-120.821782	367.43	5.00	372.43
44	36.914321	-120.822805	365.47	5.00	370.47
45	36.915233	-120.823868	367.60	5.00	372.60
46	36.916132	-120.824979	366.45	5.00	371.45
47	36.917025	-120.826107	374.17	5.00	379.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	5.00	309.72
2	36.946811	-120.860856	315.79	5.00	320.79
3	36.944920	-120.858560	327.30	5.00	332.30
4	36.942472	-120.855567	339.75	5.00	344.75
5	36.941113	-120.853899	344.65	5.00	349.65
6	36.940264	-120.852869	345.01	5.00	350.01
7	36.938843	-120.851133	351.41	5.00	356.42
8	36.937160	-120.849060	358.46	5.00	363.46
9	36.936530	-120.848312	362.19	5.00	367.19
10	36.935415	-120.846941	361.06	5.00	366.06
11	36.934008	-120.845224	356.77	5.00	361.77
12	36.932384	-120.843245	353.56	5.00	358.56
13	36.930747	-120.841287	349.45	5.00	354.45
14	36.929266	-120.839645	350.49	5.00	355.49
15	36.927801	-120.838082	349.50	5.00	354.50
16	36.926290	-120.836545	356.40	5.00	361.40
17	36.924236	-120.834453	372.80	5.00	377.80
18	36.920766	-120.830923	390.69	5.00	395.69
19	36.918107	-120.828198	421.44	5.00	426.44
20	36.916973	-120.827015	429.80	5.00	434.80
21	36.915885	-120.825837	434.02	5.00	439.02
22	36.912651	-120.822211	415.16	5.00	420.16
23	36.911515	-120.820940	405.80	5.00	410.80
24	36.910370	-120.819700	395.93	5.00	400.93
25	36.909432	-120.818759	386.64	5.00	391.64
26	36.908459	-120.817852	385.85	5.00	390.85
27	36.906051	-120.815746	388.11	5.00	393.11
28	36.903644	-120.813649	391.55	5.00	396.55
29	36.901572	-120.811839	394.02	5.00	399.02
30	36.899500	-120.810034	390.78	5.00	395.78
31	36.897490	-120.808272	386.91	5.00	391.91
32	36.894792	-120.805933	382.56	5.00	387.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	5.00	375.01
OP 2	36.928170	-120.838662	352.48	5.00	357.48
OP 3	36.922035	-120.832274	383.43	5.00	388.43
OP 4	36.912179	-120.820990	374.39	5.00	379.39
OP 5	36.900090	-120.810066	387.37	5.00	392.37
OP 6	36.888686	-120.800176	383.36	5.00	388.36
OP 7	36.877627	-120.792463	377.24	5.00	382.25
OP 8	36.866412	-120.784771	371.56	5.00	376.56
OP 9	36.929949	-120.840997	382.20	5.00	387.20
OP 10	36.931418	-120.838949	327.02	5.00	332.02
OP 11	36.933552	-120.837998	276.27	5.00	281.27
OP 12	36.945961	-120.837832	229.99	5.00	234.99
OP 13	36.962157	-120.837614	181.08	5.00	186.08
OP 14	36.865253	-120.783277	365.51	5.00	370.51
OP 15	36.863811	-120.783985	392.58	5.00	397.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
201	SA tracking	SA tracking	0	0	-	
202	SA tracking	SA tracking	0	0	-	
203	SA tracking	SA tracking	0	0	-	
204	SA tracking	SA tracking	0	0	-	
205	SA tracking	SA tracking	0	0	-	
206	SA tracking	SA tracking	0	0	-	
207	SA tracking	SA tracking	0	0	-	
208	SA tracking	SA tracking	0	0	-	
209	SA tracking	SA tracking	0	0	-	
210	SA tracking	SA tracking	0	0	-	
211	SA tracking	SA tracking	0	0	-	
212	SA tracking	SA tracking	0	0	-	
213	SA tracking	SA tracking	0	0	-	
214	SA tracking	SA tracking	0	0	-	
215	SA tracking	SA tracking	0	0	-	
216	SA tracking	SA tracking	0	0	-	
217	SA tracking	SA tracking	0	0	-	
218	SA tracking	SA tracking	0	0	-	
219	SA tracking	SA tracking	0	0	-	
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)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

204 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

205 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

208 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

209 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

211 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

212 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

213 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

214 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

215 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

216 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

217 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

218 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

219 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

220 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Zeta Solar

Block 2 6ft pan 9ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57589.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

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

PV Array(s)

Total PV footprint area: 339.4 acres

Name: 201
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.7 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.907722	-120.811588	306.31	6.00	312.31
2	36.908296	-120.811245	300.11	6.00	306.11
3	36.910432	-120.813552	288.70	6.00	294.70
4	36.911934	-120.815354	293.11	6.00	299.11
5	36.914061	-120.817983	307.91	6.00	313.91
6	36.913675	-120.818476	314.95	6.00	320.95
7	36.911736	-120.816255	310.93	6.00	316.93
8	36.909789	-120.814228	309.71	6.00	315.71

Name: 202
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 18.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908288	-120.811256	300.11	6.00	306.11
2	36.908974	-120.811105	294.00	6.00	300.00
3	36.909257	-120.811105	290.89	6.00	296.89
4	36.909712	-120.811084	287.16	6.00	293.16
5	36.909720	-120.811438	285.07	6.00	291.07
6	36.912028	-120.813981	280.42	6.00	286.42
7	36.914215	-120.816781	297.58	6.00	303.58
8	36.914576	-120.817221	297.52	6.00	303.52
9	36.914078	-120.817972	307.84	6.00	313.84
10	36.912174	-120.815633	294.26	6.00	300.26
11	36.910492	-120.813616	288.45	6.00	294.45

Name: 203
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 21.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911389	-120.810701	274.04	6.00	280.04
2	36.911500	-120.811066	269.44	6.00	275.44
3	36.911415	-120.811506	272.19	6.00	278.19
4	36.912255	-120.812718	270.56	6.00	276.57
5	36.912659	-120.813019	269.42	6.00	275.42
6	36.913225	-120.813051	266.91	6.00	272.91
7	36.913834	-120.813577	269.94	6.00	275.94
8	36.914597	-120.813866	269.17	6.00	275.17
9	36.915052	-120.814092	269.28	6.00	275.28
10	36.915729	-120.814371	267.93	6.00	273.93
11	36.914855	-120.814902	277.87	6.00	283.87
12	36.914014	-120.815282	283.59	6.00	289.59
13	36.913319	-120.815653	289.68	6.00	295.68
14	36.912212	-120.814242	279.50	6.00	285.50
15	36.911633	-120.813566	278.49	6.00	284.49
16	36.911054	-120.812933	277.64	6.00	283.64
17	36.909699	-120.811442	285.26	6.00	291.26
18	36.910471	-120.811120	276.15	6.00	282.15
19	36.910909	-120.810868	276.31	6.00	282.32

Name: 204
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915729	-120.814362	267.51	6.00	273.51
2	36.916248	-120.814657	268.02	6.00	274.02
3	36.916609	-120.814797	270.12	6.00	276.12
4	36.917188	-120.814802	267.64	6.00	273.64
5	36.917453	-120.814952	267.80	6.00	273.80
6	36.916579	-120.815494	276.31	6.00	282.31
7	36.915609	-120.816347	285.14	6.00	291.14
8	36.914576	-120.817216	297.52	6.00	303.52
9	36.913945	-120.816433	293.60	6.00	299.60
10	36.913332	-120.815655	289.59	6.00	295.59
11	36.914245	-120.815167	280.34	6.00	286.34
12	36.914919	-120.814872	277.53	6.00	283.53

Name: 205
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.910600	-120.808209	273.44	6.00	279.44
2	36.911029	-120.808070	264.12	6.00	270.12
3	36.911372	-120.807984	260.25	6.00	266.25
4	36.911655	-120.808955	262.31	6.00	268.31
5	36.912152	-120.810414	263.04	6.00	269.04
6	36.912680	-120.811701	261.30	6.00	267.30
7	36.913229	-120.813059	266.77	6.00	272.77
8	36.912663	-120.813032	269.68	6.00	275.68
9	36.912268	-120.812721	270.43	6.00	276.43
10	36.911410	-120.811508	272.19	6.00	278.19
11	36.911509	-120.811068	269.25	6.00	275.25
12	36.911389	-120.810687	273.93	6.00	279.93
13	36.911123	-120.809813	274.54	6.00	280.54
14	36.911029	-120.809513	272.85	6.00	278.85
15	36.910973	-120.808998	273.52	6.00	279.52

Name: 206
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912601	-120.807886	251.02	6.00	257.02
2	36.913476	-120.810783	254.00	6.00	260.00
3	36.914119	-120.812897	262.91	6.00	268.91
4	36.914908	-120.813294	259.36	6.00	265.36
5	36.914582	-120.813873	269.28	6.00	275.28
6	36.913836	-120.813583	269.93	6.00	275.93
7	36.913201	-120.813026	266.96	6.00	272.96
8	36.912172	-120.810451	263.02	6.00	269.02
9	36.911365	-120.808015	259.93	6.00	265.93
10	36.911932	-120.807940	255.54	6.00	261.54

Name: 207
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912609	-120.807886	251.07	6.00	257.07
2	36.913235	-120.807801	247.75	6.00	253.75
3	36.913836	-120.807650	245.33	6.00	251.33
4	36.914522	-120.808788	242.93	6.00	248.93
5	36.915260	-120.809442	242.43	6.00	248.43
6	36.915612	-120.810043	242.38	6.00	248.38
7	36.915895	-120.810966	242.21	6.00	248.21
8	36.915311	-120.812285	252.18	6.00	258.18
9	36.914900	-120.813272	259.08	6.00	265.08
10	36.914132	-120.812875	262.82	6.00	268.82
11	36.913587	-120.811191	255.50	6.00	261.51

Name: 208
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.914683	-120.800825	233.40	6.00	239.40
2	36.915650	-120.800828	228.24	6.00	234.24
3	36.915605	-120.803247	229.23	6.00	235.23
4	36.915622	-120.805723	232.12	6.00	238.12
5	36.915697	-120.808215	235.31	6.00	241.31
6	36.915925	-120.811001	242.32	6.00	248.32
7	36.915766	-120.810535	238.86	6.00	244.86
8	36.915642	-120.810057	242.39	6.00	248.39
9	36.915350	-120.809628	242.28	6.00	248.28
10	36.915050	-120.809231	242.59	6.00	248.59
11	36.914363	-120.808609	244.21	6.00	250.21
12	36.913892	-120.807729	245.08	6.00	251.08
13	36.914647	-120.807750	237.21	6.00	243.21
14	36.914672	-120.804940	233.82	6.00	239.82
15	36.914681	-120.802952	234.14	6.00	240.14

Name: 209
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 19.7 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915660	-120.800829	228.11	6.00	234.11
2	36.916294	-120.800861	224.05	6.00	230.05
3	36.916861	-120.800850	222.48	6.00	228.48
4	36.916998	-120.802084	221.88	6.00	227.88
5	36.917084	-120.803243	220.14	6.00	226.14
6	36.917367	-120.804155	218.65	6.00	224.65
7	36.917461	-120.804938	219.73	6.00	225.73
8	36.917512	-120.805646	220.58	6.00	226.58
9	36.917701	-120.805957	219.17	6.00	225.17
10	36.916740	-120.805947	225.46	6.00	231.46
11	36.915617	-120.806022	231.33	6.00	237.33
12	36.915617	-120.803704	227.99	6.00	233.99
13	36.915625	-120.802084	230.70	6.00	236.70

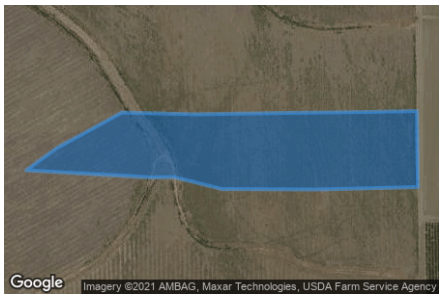
Name: 210
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 18.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915630	-120.806025	231.46	6.00	237.46
2	36.916625	-120.805961	226.25	6.00	232.25
3	36.917663	-120.805961	219.50	6.00	225.50
4	36.918126	-120.806197	217.92	6.00	223.92
5	36.918718	-120.806315	217.30	6.00	223.30
6	36.918718	-120.806787	219.33	6.00	225.33
7	36.917800	-120.807377	224.20	6.00	230.21
8	36.916925	-120.808707	231.41	6.00	237.41
9	36.915913	-120.811036	242.57	6.00	248.58
10	36.915758	-120.809083	237.99	6.00	243.99
11	36.915673	-120.807474	232.98	6.00	238.98

Name: 211
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 17.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

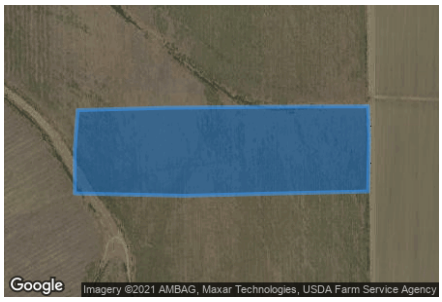
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916865	-120.800875	222.53	6.00	228.53
2	36.917628	-120.800918	217.30	6.00	223.30
3	36.918014	-120.800908	215.72	6.00	221.72
4	36.918546	-120.800886	213.55	6.00	219.55
5	36.918546	-120.801648	213.76	6.00	219.76
6	36.918503	-120.803643	214.38	6.00	220.38
7	36.918512	-120.805242	215.52	6.00	221.52
8	36.918662	-120.805929	217.89	6.00	223.89
9	36.918718	-120.806293	216.90	6.00	222.90
10	36.918726	-120.806326	217.70	6.00	223.70
11	36.918109	-120.806229	218.59	6.00	224.59
12	36.917620	-120.805939	219.76	6.00	225.76
13	36.917482	-120.805628	220.31	6.00	226.31
14	36.917465	-120.804963	219.71	6.00	225.71
15	36.917354	-120.804158	218.85	6.00	224.85
16	36.917088	-120.803236	220.09	6.00	226.09
17	36.916994	-120.802088	222.01	6.00	228.01

Name: 212
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918563	-120.800908	213.37	6.00	219.37
2	36.919918	-120.800929	208.28	6.00	214.28
3	36.919903	-120.801964	208.69	6.00	214.69
4	36.919884	-120.803826	209.94	6.00	215.94
5	36.919861	-120.805870	211.68	6.00	217.68
6	36.919893	-120.807474	219.55	6.00	225.55
7	36.919258	-120.808922	221.71	6.00	227.71
8	36.918863	-120.809598	227.77	6.00	233.77
9	36.918735	-120.806819	219.40	6.00	225.40
10	36.918743	-120.806336	217.89	6.00	223.89
11	36.918529	-120.805253	215.35	6.00	221.35
12	36.918520	-120.803161	213.24	6.00	219.24

Name: 213
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 24.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919927	-120.800961	208.12	6.00	214.12
2	36.920888	-120.800940	204.10	6.00	210.10
3	36.921428	-120.800961	203.62	6.00	209.62
4	36.921420	-120.803214	202.44	6.00	208.44
5	36.921402	-120.805457	204.20	6.00	210.20
6	36.921359	-120.807409	210.55	6.00	216.55
7	36.920673	-120.807474	217.19	6.00	223.19
8	36.919893	-120.807474	219.55	6.00	225.55
9	36.919850	-120.805027	209.55	6.00	215.55
10	36.919884	-120.803322	208.54	6.00	214.54

Name: 214
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916393	-120.809995	236.65	6.00	242.65
2	36.918143	-120.811164	239.17	6.00	245.17
3	36.918829	-120.811583	238.55	6.00	244.55
4	36.919764	-120.809587	224.74	6.00	230.74
5	36.920639	-120.807460	217.25	6.00	223.26
6	36.920427	-120.807468	218.06	6.00	224.06
7	36.920270	-120.807462	219.05	6.00	225.05
8	36.920199	-120.807476	219.43	6.00	225.43
9	36.919884	-120.807495	219.46	6.00	225.46
10	36.919275	-120.808911	221.70	6.00	227.70
11	36.918838	-120.809609	227.78	6.00	233.78
12	36.918743	-120.806808	219.32	6.00	225.32
13	36.917748	-120.807409	224.48	6.00	230.48
14	36.916942	-120.808718	231.41	6.00	237.41

Name: 215
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916929	-120.814791	269.17	6.00	275.17
2	36.917534	-120.812575	252.40	6.00	258.40
3	36.918010	-120.811068	238.47	6.00	244.47
4	36.917560	-120.810800	238.22	6.00	244.22
5	36.916367	-120.809995	236.69	6.00	242.69
6	36.915733	-120.811336	243.62	6.00	249.62
7	36.915226	-120.812527	251.95	6.00	257.95
8	36.914875	-120.813342	260.37	6.00	266.37
9	36.914583	-120.813911	269.77	6.00	275.77
10	36.915492	-120.814276	267.04	6.00	273.04
11	36.915947	-120.814501	267.89	6.00	273.89
12	36.916393	-120.814758	269.59	6.00	275.59
13	36.917036	-120.814791	268.85	6.00	274.85

Name: 216
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 15.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918006	-120.811064	238.35	6.00	244.35
2	36.918881	-120.811611	238.14	6.00	244.14
3	36.919502	-120.812073	238.21	6.00	244.21
4	36.919078	-120.813564	247.92	6.00	253.92
5	36.918529	-120.815372	266.29	6.00	272.29
6	36.917971	-120.815151	266.31	6.00	272.31
7	36.917448	-120.814929	267.62	6.00	273.62
8	36.917182	-120.814805	267.66	6.00	273.66
9	36.916946	-120.814780	269.15	6.00	275.15
10	36.917467	-120.812836	253.75	6.00	259.75

Name: 217
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 11.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

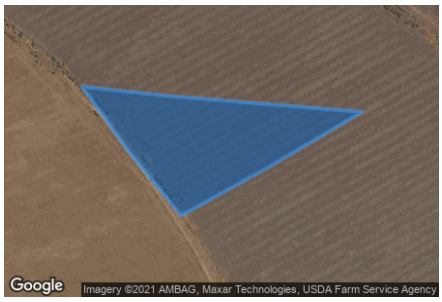
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918829	-120.811595	238.64	6.00	244.64
2	36.919438	-120.810276	226.94	6.00	232.94
3	36.919756	-120.809594	224.74	6.00	230.74
4	36.920510	-120.810179	224.74	6.00	230.74
5	36.921535	-120.810925	221.82	6.00	227.82
6	36.920931	-120.812266	231.56	6.00	237.56
7	36.920626	-120.812936	238.90	6.00	244.90
8	36.919927	-120.812432	239.24	6.00	245.24
9	36.919485	-120.812067	238.32	6.00	244.32

Name: 218
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 9.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919747	-120.809600	224.79	6.00	230.79
2	36.920139	-120.808672	219.61	6.00	225.61
3	36.920641	-120.807484	217.42	6.00	223.42
4	36.920836	-120.807465	213.00	6.00	219.00
5	36.921355	-120.807390	210.21	6.00	216.21
6	36.921407	-120.808913	219.10	6.00	225.10
7	36.921467	-120.809428	218.17	6.00	224.17
8	36.921531	-120.809991	220.12	6.00	226.12
9	36.921540	-120.810925	221.82	6.00	227.82
10	36.920716	-120.810345	224.19	6.00	230.19
11	36.919876	-120.809691	224.64	6.00	230.64
12	36.919730	-120.809562	225.21	6.00	231.21

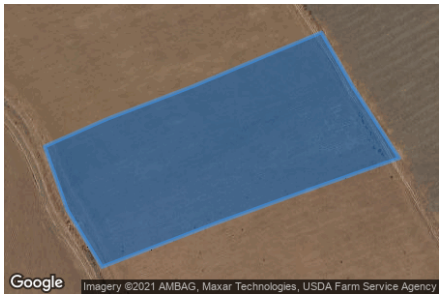
Name: 219
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.921537	-120.810932	221.78	6.00	227.78
2	36.921679	-120.813104	231.94	6.00	237.94
3	36.921760	-120.814038	238.06	6.00	244.06
4	36.921177	-120.813512	239.96	6.00	245.96
5	36.920624	-120.812938	239.00	6.00	245.00
6	36.921053	-120.811962	229.13	6.00	235.13



Name: 220
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918535	-120.815375	266.29	6.00	272.29
2	36.918921	-120.814114	253.65	6.00	259.65
3	36.919212	-120.813100	243.96	6.00	249.96
4	36.919500	-120.812076	238.40	6.00	244.40
5	36.920134	-120.812591	239.88	6.00	245.88
6	36.920615	-120.812939	239.10	6.00	245.10
7	36.920139	-120.814361	249.70	6.00	255.70
8	36.919843	-120.815332	259.71	6.00	265.71
9	36.919603	-120.816013	265.28	6.00	271.28
10	36.919041	-120.815761	266.64	6.00	272.64



Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	9.00	398.84
2	36.930831	-120.839764	345.16	9.00	354.16
3	36.931311	-120.839152	331.76	9.00	340.76
4	36.931879	-120.838570	313.43	9.00	322.43
5	36.932249	-120.838334	303.67	9.00	312.67
6	36.932683	-120.838129	292.55	9.00	301.55
7	36.933102	-120.838016	283.04	9.00	292.04
8	36.933551	-120.837962	276.14	9.00	285.14
9	36.935414	-120.837954	266.34	9.00	275.34
10	36.937736	-120.837932	253.93	9.00	262.93
11	36.939812	-120.837911	249.78	9.00	258.78
12	36.941904	-120.837873	241.92	9.00	250.92
13	36.945008	-120.837838	230.33	9.00	239.33
14	36.946799	-120.837838	227.01	9.00	236.01
15	36.948594	-120.837813	207.52	9.00	216.52
16	36.952176	-120.837768	195.16	9.00	204.16
17	36.953786	-120.837762	191.65	9.00	200.65
18	36.955400	-120.837738	187.60	9.00	196.60
19	36.958503	-120.837677	184.65	9.00	193.65
20	36.960861	-120.837691	182.77	9.00	191.77
21	36.963270	-120.837648	180.63	9.00	189.63
22	36.968014	-120.837551	178.62	9.00	187.62
23	36.971867	-120.837524	175.41	9.00	184.41
24	36.973350	-120.837487	172.93	9.00	181.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	9.00	399.98
2	36.861260	-120.781276	387.51	9.00	396.51
3	36.863221	-120.782631	379.39	9.00	388.39
4	36.865259	-120.784039	372.70	9.00	381.70
5	36.867291	-120.785439	370.95	9.00	379.95
6	36.868226	-120.786078	370.80	9.00	379.80
7	36.869165	-120.786731	374.62	9.00	383.62
8	36.870227	-120.787458	372.24	9.00	381.24
9	36.872811	-120.789241	367.41	9.00	376.41
10	36.873987	-120.790051	367.98	9.00	376.98
11	36.876090	-120.791496	372.67	9.00	381.67
12	36.877427	-120.792420	379.00	9.00	388.00
13	36.878413	-120.793104	379.76	9.00	388.77
14	36.879196	-120.793644	383.47	9.00	392.47
15	36.880411	-120.794473	386.63	9.00	395.63
16	36.881831	-120.795455	387.93	9.00	396.93
17	36.882674	-120.796034	389.84	9.00	398.84
18	36.884688	-120.797423	388.03	9.00	397.03
19	36.885889	-120.798255	388.64	9.00	397.64
20	36.887865	-120.799647	384.89	9.00	393.89
21	36.888840	-120.800380	385.22	9.00	394.22
22	36.889802	-120.801152	381.41	9.00	390.42
23	36.891640	-120.802710	376.89	9.00	385.89
24	36.892735	-120.803674	376.35	9.00	385.35
25	36.893599	-120.804416	376.67	9.00	385.67
26	36.894546	-120.805252	376.89	9.00	385.89
27	36.895486	-120.806067	377.65	9.00	386.65
28	36.896430	-120.806891	381.65	9.00	390.65
29	36.897370	-120.807707	382.20	9.00	391.20
30	36.899235	-120.809334	385.47	9.00	394.47
31	36.900185	-120.810164	388.57	9.00	397.57
32	36.900669	-120.810581	387.72	9.00	396.72
33	36.901137	-120.810991	388.60	9.00	397.60
34	36.903198	-120.812792	387.27	9.00	396.27
35	36.905271	-120.814604	383.87	9.00	392.87
36	36.906309	-120.815505	384.00	9.00	393.00
37	36.907344	-120.816403	382.07	9.00	391.07
38	36.908385	-120.817314	379.37	9.00	388.37
39	36.909420	-120.818217	379.13	9.00	388.13
40	36.910429	-120.819096	377.21	9.00	386.21
41	36.911442	-120.819984	376.49	9.00	385.49
42	36.912415	-120.820863	373.69	9.00	382.69
43	36.913366	-120.821782	367.43	9.00	376.43
44	36.914321	-120.822805	365.47	9.00	374.47
45	36.915233	-120.823868	367.60	9.00	376.60
46	36.916132	-120.824979	366.45	9.00	375.45
47	36.917025	-120.826107	374.17	9.00	383.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	9.00	313.72
2	36.946811	-120.860856	315.79	9.00	324.79
3	36.944920	-120.858560	327.30	9.00	336.30
4	36.942472	-120.855567	339.75	9.00	348.75
5	36.941113	-120.853899	344.65	9.00	353.65
6	36.940264	-120.852869	345.01	9.00	354.01
7	36.938843	-120.851133	351.41	9.00	360.42
8	36.937160	-120.849060	358.46	9.00	367.46
9	36.936530	-120.848312	362.19	9.00	371.19
10	36.935415	-120.846941	361.06	9.00	370.06
11	36.934008	-120.845224	356.77	9.00	365.77
12	36.932384	-120.843245	353.56	9.00	362.56
13	36.930747	-120.841287	349.45	9.00	358.45
14	36.929266	-120.839645	350.49	9.00	359.49
15	36.927801	-120.838082	349.50	9.00	358.50
16	36.926290	-120.836545	356.40	9.00	365.40
17	36.924236	-120.834453	372.80	9.00	381.80
18	36.920766	-120.830923	390.69	9.00	399.69
19	36.918107	-120.828198	421.44	9.00	430.44
20	36.916973	-120.827015	429.80	9.00	438.80
21	36.915885	-120.825837	434.02	9.00	443.02
22	36.912651	-120.822211	415.16	9.00	424.16
23	36.911515	-120.820940	405.80	9.00	414.80
24	36.910370	-120.819700	395.93	9.00	404.93
25	36.909432	-120.818759	386.64	9.00	395.64
26	36.908459	-120.817852	385.85	9.00	394.85
27	36.906051	-120.815746	388.11	9.00	397.11
28	36.903644	-120.813649	391.55	9.00	400.55
29	36.901572	-120.811839	394.02	9.00	403.02
30	36.899500	-120.810034	390.78	9.00	399.78
31	36.897490	-120.808272	386.91	9.00	395.91
32	36.894792	-120.805933	382.56	9.00	391.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	9.00	379.01
OP 2	36.928170	-120.838662	352.48	9.00	361.48
OP 3	36.922035	-120.832274	383.43	9.00	392.43
OP 4	36.912179	-120.820990	374.39	9.00	383.39
OP 5	36.900090	-120.810066	387.37	9.00	396.37
OP 6	36.888686	-120.800176	383.36	9.00	392.36
OP 7	36.877627	-120.792463	377.24	9.00	386.25
OP 8	36.866412	-120.784771	371.56	9.00	380.56
OP 9	36.929949	-120.840997	382.20	9.00	391.20
OP 10	36.931418	-120.838949	327.02	9.00	336.02
OP 11	36.933552	-120.837998	276.27	9.00	285.27
OP 12	36.945961	-120.837832	229.99	9.00	238.99
OP 13	36.962157	-120.837614	181.08	9.00	190.08
OP 14	36.865253	-120.783277	365.51	9.00	374.51
OP 15	36.863811	-120.783985	392.58	9.00	401.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
201	SA tracking	SA tracking	0	0	-	
202	SA tracking	SA tracking	0	0	-	
203	SA tracking	SA tracking	0	0	-	
204	SA tracking	SA tracking	0	0	-	
205	SA tracking	SA tracking	0	0	-	
206	SA tracking	SA tracking	0	0	-	
207	SA tracking	SA tracking	0	0	-	
208	SA tracking	SA tracking	0	0	-	
209	SA tracking	SA tracking	0	0	-	
210	SA tracking	SA tracking	0	0	-	
211	SA tracking	SA tracking	0	0	-	
212	SA tracking	SA tracking	0	0	-	
213	SA tracking	SA tracking	0	0	-	
214	SA tracking	SA tracking	0	0	-	
215	SA tracking	SA tracking	0	0	-	
216	SA tracking	SA tracking	0	0	-	
217	SA tracking	SA tracking	0	0	-	
218	SA tracking	SA tracking	0	0	-	
219	SA tracking	SA tracking	0	0	-	
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)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

204 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

205 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

208 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

209 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

211 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

212 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

213 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

214 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

215 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

216 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

217 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

218 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

219 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

220 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Zeta Solar

Block 2 12ft pan 5ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57587.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

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

PV Array(s)

Total PV footprint area: 339.4 acres

Name: 201
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.7 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.907722	-120.811588	306.31	12.00	318.31
2	36.908296	-120.811245	300.11	12.00	312.11
3	36.910432	-120.813552	288.70	12.00	300.70
4	36.911934	-120.815354	293.11	12.00	305.11
5	36.914061	-120.817983	307.91	12.00	319.91
6	36.913675	-120.818476	314.95	12.00	326.95
7	36.911736	-120.816255	310.93	12.00	322.93
8	36.909789	-120.814228	309.71	12.00	321.71

Name: 202
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 18.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908288	-120.811256	300.11	12.00	312.11
2	36.908974	-120.811105	294.00	12.00	306.00
3	36.909257	-120.811105	290.89	12.00	302.89
4	36.909712	-120.811084	287.16	12.00	299.16
5	36.909720	-120.811438	285.07	12.00	297.07
6	36.912028	-120.813981	280.42	12.00	292.42
7	36.914215	-120.816781	297.58	12.00	309.58
8	36.914576	-120.817221	297.52	12.00	309.52
9	36.914078	-120.817972	307.84	12.00	319.84
10	36.912174	-120.815633	294.26	12.00	306.27
11	36.910492	-120.813616	288.45	12.00	300.46

Name: 203
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 21.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911389	-120.810701	274.04	12.00	286.04
2	36.911500	-120.811066	269.44	12.00	281.44
3	36.911415	-120.811506	272.19	12.00	284.19
4	36.912255	-120.812718	270.56	12.00	282.57
5	36.912659	-120.813019	269.42	12.00	281.42
6	36.913225	-120.813051	266.91	12.00	278.91
7	36.913834	-120.813577	269.94	12.00	281.94
8	36.914597	-120.813866	269.17	12.00	281.17
9	36.915052	-120.814092	269.28	12.00	281.28
10	36.915729	-120.814371	267.93	12.00	279.93
11	36.914855	-120.814902	277.87	12.00	289.87
12	36.914014	-120.815282	283.59	12.00	295.60
13	36.913319	-120.815653	289.68	12.00	301.68
14	36.912212	-120.814242	279.50	12.00	291.50
15	36.911633	-120.813566	278.49	12.00	290.49
16	36.911054	-120.812933	277.64	12.00	289.64
17	36.909699	-120.811442	285.26	12.00	297.26
18	36.910471	-120.811120	276.15	12.00	288.15
19	36.910909	-120.810868	276.31	12.00	288.32

Name: 204
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915729	-120.814362	267.51	12.00	279.51
2	36.916248	-120.814657	268.02	12.00	280.02
3	36.916609	-120.814797	270.12	12.00	282.12
4	36.917188	-120.814802	267.64	12.00	279.64
5	36.917453	-120.814952	267.80	12.00	279.80
6	36.916579	-120.815494	276.31	12.00	288.31
7	36.915609	-120.816347	285.14	12.00	297.14
8	36.914576	-120.817216	297.52	12.00	309.52
9	36.913945	-120.816433	293.60	12.00	305.60
10	36.913332	-120.815655	289.59	12.00	301.59
11	36.914245	-120.815167	280.34	12.00	292.34
12	36.914919	-120.814872	277.53	12.00	289.53

Name: 205
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.910600	-120.808209	273.44	12.00	285.44
2	36.911029	-120.808070	264.12	12.00	276.12
3	36.911372	-120.807984	260.25	12.00	272.25
4	36.911655	-120.808955	262.31	12.00	274.31
5	36.912152	-120.810414	263.04	12.00	275.04
6	36.912680	-120.811701	261.30	12.00	273.30
7	36.913229	-120.813059	266.77	12.00	278.77
8	36.912663	-120.813032	269.68	12.00	281.68
9	36.912268	-120.812721	270.43	12.00	282.43
10	36.911410	-120.811508	272.19	12.00	284.19
11	36.911509	-120.811068	269.25	12.00	281.25
12	36.911389	-120.810687	273.93	12.00	285.93
13	36.911123	-120.809813	274.54	12.00	286.54
14	36.911029	-120.809513	272.85	12.00	284.85
15	36.910973	-120.808998	273.52	12.00	285.52

Name: 206
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912601	-120.807886	251.02	12.00	263.02
2	36.913476	-120.810783	254.00	12.00	266.00
3	36.914119	-120.812897	262.91	12.00	274.91
4	36.914908	-120.813294	259.36	12.00	271.36
5	36.914582	-120.813873	269.28	12.00	281.28
6	36.913836	-120.813583	269.93	12.00	281.93
7	36.913201	-120.813026	266.96	12.00	278.97
8	36.912172	-120.810451	263.02	12.00	275.03
9	36.911365	-120.808015	259.93	12.00	271.93
10	36.911932	-120.807940	255.54	12.00	267.54

Name: 207
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912609	-120.807886	251.07	12.00	263.07
2	36.913235	-120.807801	247.75	12.00	259.75
3	36.913836	-120.807650	245.33	12.00	257.33
4	36.914522	-120.808788	242.93	12.00	254.93
5	36.915260	-120.809442	242.43	12.00	254.43
6	36.915612	-120.810043	242.38	12.00	254.38
7	36.915895	-120.810966	242.21	12.00	254.21
8	36.915311	-120.812285	252.18	12.00	264.18
9	36.914900	-120.813272	259.08	12.00	271.08
10	36.914132	-120.812875	262.82	12.00	274.82
11	36.913587	-120.811191	255.50	12.00	267.51

Name: 208
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.914683	-120.800825	233.40	12.00	245.40
2	36.915650	-120.800828	228.24	12.00	240.24
3	36.915605	-120.803247	229.23	12.00	241.23
4	36.915622	-120.805723	232.12	12.00	244.12
5	36.915697	-120.808215	235.31	12.00	247.31
6	36.915925	-120.811001	242.32	12.00	254.32
7	36.915766	-120.810535	238.86	12.00	250.86
8	36.915642	-120.810057	242.39	12.00	254.39
9	36.915350	-120.809628	242.28	12.00	254.28
10	36.915050	-120.809231	242.59	12.00	254.59
11	36.914363	-120.808609	244.21	12.00	256.21
12	36.913892	-120.807729	245.08	12.00	257.08
13	36.914647	-120.807750	237.21	12.00	249.21
14	36.914672	-120.804940	233.82	12.00	245.82
15	36.914681	-120.802952	234.14	12.00	246.14

Name: 209
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 19.7 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915660	-120.800829	228.11	12.00	240.11
2	36.916294	-120.800861	224.05	12.00	236.05
3	36.916861	-120.800850	222.48	12.00	234.48
4	36.916998	-120.802084	221.88	12.00	233.88
5	36.917084	-120.803243	220.14	12.00	232.14
6	36.917367	-120.804155	218.65	12.00	230.65
7	36.917461	-120.804938	219.73	12.00	231.73
8	36.917512	-120.805646	220.58	12.00	232.58
9	36.917701	-120.805957	219.17	12.00	231.17
10	36.916740	-120.805947	225.46	12.00	237.46
11	36.915617	-120.806022	231.33	12.00	243.33
12	36.915617	-120.803704	227.99	12.00	239.99
13	36.915625	-120.802084	230.70	12.00	242.70

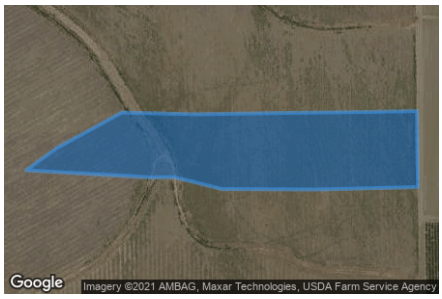
Name: 210
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 18.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915630	-120.806025	231.46	12.00	243.47
2	36.916625	-120.805961	226.25	12.00	238.25
3	36.917663	-120.805961	219.50	12.00	231.50
4	36.918126	-120.806197	217.92	12.00	229.92
5	36.918718	-120.806315	217.30	12.00	229.30
6	36.918718	-120.806787	219.33	12.00	231.33
7	36.917800	-120.807377	224.20	12.00	236.21
8	36.916925	-120.808707	231.41	12.00	243.41
9	36.915913	-120.811036	242.57	12.00	254.58
10	36.915758	-120.809083	237.99	12.00	249.99
11	36.915673	-120.807474	232.98	12.00	244.98

Name: 211
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 17.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

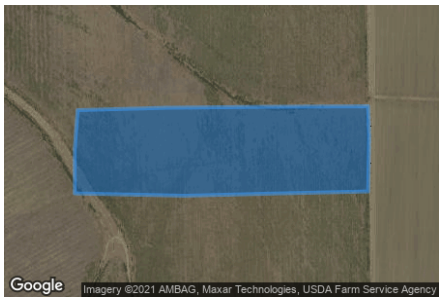
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916865	-120.800875	222.53	12.00	234.53
2	36.917628	-120.800918	217.30	12.00	229.30
3	36.918014	-120.800908	215.72	12.00	227.72
4	36.918546	-120.800886	213.55	12.00	225.55
5	36.918546	-120.801648	213.76	12.00	225.76
6	36.918503	-120.803643	214.38	12.00	226.38
7	36.918512	-120.805242	215.52	12.00	227.52
8	36.918662	-120.805929	217.89	12.00	229.89
9	36.918718	-120.806293	216.90	12.00	228.90
10	36.918726	-120.806326	217.70	12.00	229.70
11	36.918109	-120.806229	218.59	12.00	230.59
12	36.917620	-120.805939	219.76	12.00	231.76
13	36.917482	-120.805628	220.31	12.00	232.31
14	36.917465	-120.804963	219.71	12.00	231.71
15	36.917354	-120.804158	218.85	12.00	230.85
16	36.917088	-120.803236	220.09	12.00	232.09
17	36.916994	-120.802088	222.01	12.00	234.01

Name: 212
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918563	-120.800908	213.37	12.00	225.37
2	36.919918	-120.800929	208.28	12.00	220.28
3	36.919903	-120.801964	208.69	12.00	220.69
4	36.919884	-120.803826	209.94	12.00	221.94
5	36.919861	-120.805870	211.68	12.00	223.68
6	36.919893	-120.807474	219.55	12.00	231.55
7	36.919258	-120.808922	221.71	12.00	233.71
8	36.918863	-120.809598	227.77	12.00	239.77
9	36.918735	-120.806819	219.40	12.00	231.40
10	36.918743	-120.806336	217.89	12.00	229.89
11	36.918529	-120.805253	215.35	12.00	227.35
12	36.918520	-120.803161	213.24	12.00	225.24

Name: 213
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 24.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919927	-120.800961	208.12	12.00	220.12
2	36.920888	-120.800940	204.10	12.00	216.10
3	36.921428	-120.800961	203.62	12.00	215.62
4	36.921420	-120.803214	202.44	12.00	214.44
5	36.921402	-120.805457	204.20	12.00	216.20
6	36.921359	-120.807409	210.55	12.00	222.55
7	36.920673	-120.807474	217.19	12.00	229.19
8	36.919893	-120.807474	219.55	12.00	231.55
9	36.919850	-120.805027	209.55	12.00	221.55
10	36.919884	-120.803322	208.54	12.00	220.54

Name: 214
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916393	-120.809995	236.65	12.00	248.65
2	36.918143	-120.811164	239.17	12.00	251.18
3	36.918829	-120.811583	238.55	12.00	250.55
4	36.919764	-120.809587	224.74	12.00	236.74
5	36.920639	-120.807460	217.25	12.00	229.26
6	36.920427	-120.807468	218.06	12.00	230.06
7	36.920270	-120.807462	219.05	12.00	231.05
8	36.920199	-120.807476	219.43	12.00	231.43
9	36.919884	-120.807495	219.46	12.00	231.46
10	36.919275	-120.808911	221.70	12.00	233.70
11	36.918838	-120.809609	227.78	12.00	239.78
12	36.918743	-120.806808	219.32	12.00	231.32
13	36.917748	-120.807409	224.48	12.00	236.48
14	36.916942	-120.808718	231.41	12.00	243.41

Name: 215
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916929	-120.814791	269.17	12.00	281.17
2	36.917534	-120.812575	252.40	12.00	264.40
3	36.918010	-120.811068	238.47	12.00	250.47
4	36.917560	-120.810800	238.22	12.00	250.22
5	36.916367	-120.809995	236.69	12.00	248.69
6	36.915733	-120.811336	243.62	12.00	255.62
7	36.915226	-120.812527	251.95	12.00	263.95
8	36.914875	-120.813342	260.37	12.00	272.37
9	36.914583	-120.813911	269.77	12.00	281.77
10	36.915492	-120.814276	267.04	12.00	279.04
11	36.915947	-120.814501	267.89	12.00	279.89
12	36.916393	-120.814758	269.59	12.00	281.59
13	36.917036	-120.814791	268.85	12.00	280.85

Name: 216
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 15.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918006	-120.811064	238.35	12.00	250.35
2	36.918881	-120.811611	238.14	12.00	250.14
3	36.919502	-120.812073	238.21	12.00	250.22
4	36.919078	-120.813564	247.92	12.00	259.92
5	36.918529	-120.815372	266.29	12.00	278.29
6	36.917971	-120.815151	266.31	12.00	278.31
7	36.917448	-120.814929	267.62	12.00	279.62
8	36.917182	-120.814805	267.66	12.00	279.66
9	36.916946	-120.814780	269.15	12.00	281.15
10	36.917467	-120.812836	253.75	12.00	265.75

Name: 217
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 11.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

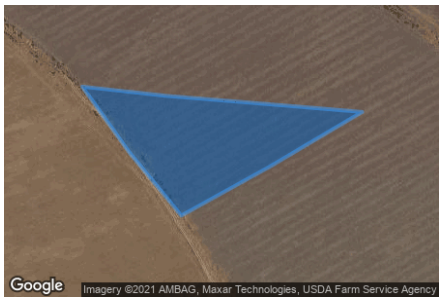
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918829	-120.811595	238.64	12.00	250.64
2	36.919438	-120.810276	226.94	12.00	238.94
3	36.919756	-120.809594	224.74	12.00	236.74
4	36.920510	-120.810179	224.74	12.00	236.75
5	36.921535	-120.810925	221.82	12.00	233.82
6	36.920931	-120.812266	231.56	12.00	243.56
7	36.920626	-120.812936	238.90	12.00	250.90
8	36.919927	-120.812432	239.24	12.00	251.24
9	36.919485	-120.812067	238.32	12.00	250.32

Name: 218
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 9.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919747	-120.809600	224.79	12.00	236.79
2	36.920139	-120.808672	219.61	12.00	231.61
3	36.920641	-120.807484	217.42	12.00	229.42
4	36.920836	-120.807465	213.00	12.00	225.01
5	36.921355	-120.807390	210.21	12.00	222.21
6	36.921407	-120.808913	219.10	12.00	231.10
7	36.921467	-120.809428	218.17	12.00	230.17
8	36.921531	-120.809991	220.12	12.00	232.12
9	36.921540	-120.810925	221.82	12.00	233.82
10	36.920716	-120.810345	224.19	12.00	236.19
11	36.919876	-120.809691	224.64	12.00	236.64
12	36.919730	-120.809562	225.21	12.00	237.21

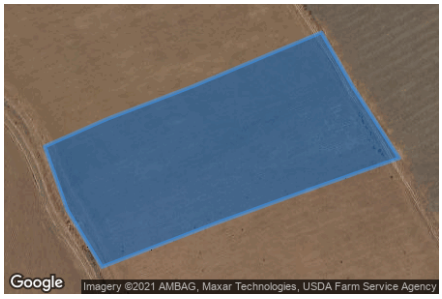
Name: 219
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.921537	-120.810932	221.78	12.00	233.78
2	36.921679	-120.813104	231.94	12.00	243.94
3	36.921760	-120.814038	238.06	12.00	250.06
4	36.921177	-120.813512	239.96	12.00	251.96
5	36.920624	-120.812938	239.00	12.00	251.00
6	36.921053	-120.811962	229.13	12.00	241.13



Name: 220
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918535	-120.815375	266.29	12.00	278.29
2	36.918921	-120.814114	253.65	12.00	265.65
3	36.919212	-120.813100	243.96	12.00	255.96
4	36.919500	-120.812076	238.40	12.00	250.40
5	36.920134	-120.812591	239.88	12.00	251.88
6	36.920615	-120.812939	239.10	12.00	251.10
7	36.920139	-120.814361	249.70	12.00	261.70
8	36.919843	-120.815332	259.71	12.00	271.71
9	36.919603	-120.816013	265.28	12.00	277.28
10	36.919041	-120.815761	266.64	12.00	278.64



Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	5.00	394.84
2	36.930831	-120.839764	345.16	5.00	350.16
3	36.931311	-120.839152	331.76	5.00	336.76
4	36.931879	-120.838570	313.43	5.00	318.43
5	36.932249	-120.838334	303.67	5.00	308.67
6	36.932683	-120.838129	292.55	5.00	297.55
7	36.933102	-120.838016	283.04	5.00	288.04
8	36.933551	-120.837962	276.14	5.00	281.14
9	36.935414	-120.837954	266.34	5.00	271.34
10	36.937736	-120.837932	253.93	5.00	258.93
11	36.939812	-120.837911	249.78	5.00	254.78
12	36.941904	-120.837873	241.92	5.00	246.92
13	36.945008	-120.837838	230.33	5.00	235.33
14	36.946799	-120.837838	227.01	5.00	232.01
15	36.948594	-120.837813	207.52	5.00	212.52
16	36.952176	-120.837768	195.16	5.00	200.16
17	36.953786	-120.837762	191.65	5.00	196.65
18	36.955400	-120.837738	187.60	5.00	192.60
19	36.958503	-120.837677	184.65	5.00	189.65
20	36.960861	-120.837691	182.77	5.00	187.77
21	36.963270	-120.837648	180.63	5.00	185.63
22	36.968014	-120.837551	178.62	5.00	183.62
23	36.971867	-120.837524	175.41	5.00	180.41
24	36.973350	-120.837487	172.93	5.00	177.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	5.00	395.98
2	36.861260	-120.781276	387.51	5.00	392.51
3	36.863221	-120.782631	379.39	5.00	384.39
4	36.865259	-120.784039	372.70	5.00	377.70
5	36.867291	-120.785439	370.95	5.00	375.95
6	36.868226	-120.786078	370.80	5.00	375.80
7	36.869165	-120.786731	374.62	5.00	379.62
8	36.870227	-120.787458	372.24	5.00	377.24
9	36.872811	-120.789241	367.41	5.00	372.41
10	36.873987	-120.790051	367.98	5.00	372.98
11	36.876090	-120.791496	372.67	5.00	377.67
12	36.877427	-120.792420	379.00	5.00	384.00
13	36.878413	-120.793104	379.76	5.00	384.77
14	36.879196	-120.793644	383.47	5.00	388.47
15	36.880411	-120.794473	386.63	5.00	391.63
16	36.881831	-120.795455	387.93	5.00	392.93
17	36.882674	-120.796034	389.84	5.00	394.84
18	36.884688	-120.797423	388.03	5.00	393.03
19	36.885889	-120.798255	388.64	5.00	393.64
20	36.887865	-120.799647	384.89	5.00	389.89
21	36.888840	-120.800380	385.22	5.00	390.22
22	36.889802	-120.801152	381.41	5.00	386.41
23	36.891640	-120.802710	376.89	5.00	381.89
24	36.892735	-120.803674	376.35	5.00	381.35
25	36.893599	-120.804416	376.67	5.00	381.67
26	36.894546	-120.805252	376.89	5.00	381.89
27	36.895486	-120.806067	377.65	5.00	382.65
28	36.896430	-120.806891	381.65	5.00	386.65
29	36.897370	-120.807707	382.20	5.00	387.20
30	36.899235	-120.809334	385.47	5.00	390.47
31	36.900185	-120.810164	388.57	5.00	393.57
32	36.900669	-120.810581	387.72	5.00	392.72
33	36.901137	-120.810991	388.60	5.00	393.60
34	36.903198	-120.812792	387.27	5.00	392.27
35	36.905271	-120.814604	383.87	5.00	388.87
36	36.906309	-120.815505	384.00	5.00	389.00
37	36.907344	-120.816403	382.07	5.00	387.07
38	36.908385	-120.817314	379.37	5.00	384.37
39	36.909420	-120.818217	379.13	5.00	384.13
40	36.910429	-120.819096	377.21	5.00	382.21
41	36.911442	-120.819984	376.49	5.00	381.49
42	36.912415	-120.820863	373.69	5.00	378.69
43	36.913366	-120.821782	367.43	5.00	372.43
44	36.914321	-120.822805	365.47	5.00	370.47
45	36.915233	-120.823868	367.60	5.00	372.60
46	36.916132	-120.824979	366.45	5.00	371.45
47	36.917025	-120.826107	374.17	5.00	379.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	5.00	309.72
2	36.946811	-120.860856	315.79	5.00	320.79
3	36.944920	-120.858560	327.30	5.00	332.30
4	36.942472	-120.855567	339.75	5.00	344.75
5	36.941113	-120.853899	344.65	5.00	349.65
6	36.940264	-120.852869	345.01	5.00	350.01
7	36.938843	-120.851133	351.41	5.00	356.42
8	36.937160	-120.849060	358.46	5.00	363.46
9	36.936530	-120.848312	362.19	5.00	367.19
10	36.935415	-120.846941	361.06	5.00	366.06
11	36.934008	-120.845224	356.77	5.00	361.77
12	36.932384	-120.843245	353.56	5.00	358.56
13	36.930747	-120.841287	349.45	5.00	354.45
14	36.929266	-120.839645	350.49	5.00	355.49
15	36.927801	-120.838082	349.50	5.00	354.50
16	36.926290	-120.836545	356.40	5.00	361.40
17	36.924236	-120.834453	372.80	5.00	377.80
18	36.920766	-120.830923	390.69	5.00	395.69
19	36.918107	-120.828198	421.44	5.00	426.44
20	36.916973	-120.827015	429.80	5.00	434.80
21	36.915885	-120.825837	434.02	5.00	439.02
22	36.912651	-120.822211	415.16	5.00	420.16
23	36.911515	-120.820940	405.80	5.00	410.80
24	36.910370	-120.819700	395.93	5.00	400.93
25	36.909432	-120.818759	386.64	5.00	391.64
26	36.908459	-120.817852	385.85	5.00	390.85
27	36.906051	-120.815746	388.11	5.00	393.11
28	36.903644	-120.813649	391.55	5.00	396.55
29	36.901572	-120.811839	394.02	5.00	399.02
30	36.899500	-120.810034	390.78	5.00	395.78
31	36.897490	-120.808272	386.91	5.00	391.91
32	36.894792	-120.805933	382.56	5.00	387.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	5.00	375.01
OP 2	36.928170	-120.838662	352.48	5.00	357.48
OP 3	36.922035	-120.832274	383.43	5.00	388.43
OP 4	36.912179	-120.820990	374.39	5.00	379.39
OP 5	36.900090	-120.810066	387.37	5.00	392.37
OP 6	36.888686	-120.800176	383.36	5.00	388.36
OP 7	36.877627	-120.792463	377.24	5.00	382.25
OP 8	36.866412	-120.784771	371.56	5.00	376.56
OP 9	36.929949	-120.840997	382.20	5.00	387.20
OP 10	36.931418	-120.838949	327.02	5.00	332.02
OP 11	36.933552	-120.837998	276.27	5.00	281.27
OP 12	36.945961	-120.837832	229.99	5.00	234.99
OP 13	36.962157	-120.837614	181.08	5.00	186.08
OP 14	36.865253	-120.783277	365.51	5.00	370.51
OP 15	36.863811	-120.783985	392.58	5.00	397.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
201	SA tracking	SA tracking	0	0	-	
202	SA tracking	SA tracking	0	0	-	
203	SA tracking	SA tracking	0	0	-	
204	SA tracking	SA tracking	0	0	-	
205	SA tracking	SA tracking	0	0	-	
206	SA tracking	SA tracking	0	0	-	
207	SA tracking	SA tracking	0	0	-	
208	SA tracking	SA tracking	0	0	-	
209	SA tracking	SA tracking	0	0	-	
210	SA tracking	SA tracking	0	0	-	
211	SA tracking	SA tracking	0	0	-	
212	SA tracking	SA tracking	0	0	-	
213	SA tracking	SA tracking	0	0	-	
214	SA tracking	SA tracking	0	0	-	
215	SA tracking	SA tracking	0	0	-	
216	SA tracking	SA tracking	0	0	-	
217	SA tracking	SA tracking	0	0	-	
218	SA tracking	SA tracking	0	0	-	
219	SA tracking	SA tracking	0	0	-	
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)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

204 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

205 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

208 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

209 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

211 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

212 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

213 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

214 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

215 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

216 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

217 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

218 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

219 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

220 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Zeta Solar

Block 2 12ft pan 9ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57588.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

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

PV Array(s)

Total PV footprint area: 339.4 acres

Name: 201
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.7 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.907722	-120.811588	306.31	12.00	318.31
2	36.908296	-120.811245	300.11	12.00	312.11
3	36.910432	-120.813552	288.70	12.00	300.70
4	36.911934	-120.815354	293.11	12.00	305.11
5	36.914061	-120.817983	307.91	12.00	319.91
6	36.913675	-120.818476	314.95	12.00	326.95
7	36.911736	-120.816255	310.93	12.00	322.93
8	36.909789	-120.814228	309.71	12.00	321.71

Name: 202
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 18.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.908288	-120.811256	300.11	12.00	312.11
2	36.908974	-120.811105	294.00	12.00	306.00
3	36.909257	-120.811105	290.89	12.00	302.89
4	36.909712	-120.811084	287.16	12.00	299.16
5	36.909720	-120.811438	285.07	12.00	297.07
6	36.912028	-120.813981	280.42	12.00	292.42
7	36.914215	-120.816781	297.58	12.00	309.58
8	36.914576	-120.817221	297.52	12.00	309.52
9	36.914078	-120.817972	307.84	12.00	319.84
10	36.912174	-120.815633	294.26	12.00	306.27
11	36.910492	-120.813616	288.45	12.00	300.46

Name: 203
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 21.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.911389	-120.810701	274.04	12.00	286.04
2	36.911500	-120.811066	269.44	12.00	281.44
3	36.911415	-120.811506	272.19	12.00	284.19
4	36.912255	-120.812718	270.56	12.00	282.57
5	36.912659	-120.813019	269.42	12.00	281.42
6	36.913225	-120.813051	266.91	12.00	278.91
7	36.913834	-120.813577	269.94	12.00	281.94
8	36.914597	-120.813866	269.17	12.00	281.17
9	36.915052	-120.814092	269.28	12.00	281.28
10	36.915729	-120.814371	267.93	12.00	279.93
11	36.914855	-120.814902	277.87	12.00	289.87
12	36.914014	-120.815282	283.59	12.00	295.60
13	36.913319	-120.815653	289.68	12.00	301.68
14	36.912212	-120.814242	279.50	12.00	291.50
15	36.911633	-120.813566	278.49	12.00	290.49
16	36.911054	-120.812933	277.64	12.00	289.64
17	36.909699	-120.811442	285.26	12.00	297.26
18	36.910471	-120.811120	276.15	12.00	288.15
19	36.910909	-120.810868	276.31	12.00	288.32

Name: 204
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915729	-120.814362	267.51	12.00	279.51
2	36.916248	-120.814657	268.02	12.00	280.02
3	36.916609	-120.814797	270.12	12.00	282.12
4	36.917188	-120.814802	267.64	12.00	279.64
5	36.917453	-120.814952	267.80	12.00	279.80
6	36.916579	-120.815494	276.31	12.00	288.31
7	36.915609	-120.816347	285.14	12.00	297.14
8	36.914576	-120.817216	297.52	12.00	309.52
9	36.913945	-120.816433	293.60	12.00	305.60
10	36.913332	-120.815655	289.59	12.00	301.59
11	36.914245	-120.815167	280.34	12.00	292.34
12	36.914919	-120.814872	277.53	12.00	289.53

Name: 205
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.910600	-120.808209	273.44	12.00	285.44
2	36.911029	-120.808070	264.12	12.00	276.12
3	36.911372	-120.807984	260.25	12.00	272.25
4	36.911655	-120.808955	262.31	12.00	274.31
5	36.912152	-120.810414	263.04	12.00	275.04
6	36.912680	-120.811701	261.30	12.00	273.30
7	36.913229	-120.813059	266.77	12.00	278.77
8	36.912663	-120.813032	269.68	12.00	281.68
9	36.912268	-120.812721	270.43	12.00	282.43
10	36.911410	-120.811508	272.19	12.00	284.19
11	36.911509	-120.811068	269.25	12.00	281.25
12	36.911389	-120.810687	273.93	12.00	285.93
13	36.911123	-120.809813	274.54	12.00	286.54
14	36.911029	-120.809513	272.85	12.00	284.85
15	36.910973	-120.808998	273.52	12.00	285.52

Name: 206
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.3 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912601	-120.807886	251.02	12.00	263.02
2	36.913476	-120.810783	254.00	12.00	266.00
3	36.914119	-120.812897	262.91	12.00	274.91
4	36.914908	-120.813294	259.36	12.00	271.36
5	36.914582	-120.813873	269.28	12.00	281.28
6	36.913836	-120.813583	269.93	12.00	281.93
7	36.913201	-120.813026	266.96	12.00	278.97
8	36.912172	-120.810451	263.02	12.00	275.03
9	36.911365	-120.808015	259.93	12.00	271.93
10	36.911932	-120.807940	255.54	12.00	267.54

Name: 207
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.912609	-120.807886	251.07	12.00	263.07
2	36.913235	-120.807801	247.75	12.00	259.75
3	36.913836	-120.807650	245.33	12.00	257.33
4	36.914522	-120.808788	242.93	12.00	254.93
5	36.915260	-120.809442	242.43	12.00	254.43
6	36.915612	-120.810043	242.38	12.00	254.38
7	36.915895	-120.810966	242.21	12.00	254.21
8	36.915311	-120.812285	252.18	12.00	264.18
9	36.914900	-120.813272	259.08	12.00	271.08
10	36.914132	-120.812875	262.82	12.00	274.82
11	36.913587	-120.811191	255.50	12.00	267.51

Name: 208
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.914683	-120.800825	233.40	12.00	245.40
2	36.915650	-120.800828	228.24	12.00	240.24
3	36.915605	-120.803247	229.23	12.00	241.23
4	36.915622	-120.805723	232.12	12.00	244.12
5	36.915697	-120.808215	235.31	12.00	247.31
6	36.915925	-120.811001	242.32	12.00	254.32
7	36.915766	-120.810535	238.86	12.00	250.86
8	36.915642	-120.810057	242.39	12.00	254.39
9	36.915350	-120.809628	242.28	12.00	254.28
10	36.915050	-120.809231	242.59	12.00	254.59
11	36.914363	-120.808609	244.21	12.00	256.21
12	36.913892	-120.807729	245.08	12.00	257.08
13	36.914647	-120.807750	237.21	12.00	249.21
14	36.914672	-120.804940	233.82	12.00	245.82
15	36.914681	-120.802952	234.14	12.00	246.14

Name: 209
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 19.7 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915660	-120.800829	228.11	12.00	240.11
2	36.916294	-120.800861	224.05	12.00	236.05
3	36.916861	-120.800850	222.48	12.00	234.48
4	36.916998	-120.802084	221.88	12.00	233.88
5	36.917084	-120.803243	220.14	12.00	232.14
6	36.917367	-120.804155	218.65	12.00	230.65
7	36.917461	-120.804938	219.73	12.00	231.73
8	36.917512	-120.805646	220.58	12.00	232.58
9	36.917701	-120.805957	219.17	12.00	231.17
10	36.916740	-120.805947	225.46	12.00	237.46
11	36.915617	-120.806022	231.33	12.00	243.33
12	36.915617	-120.803704	227.99	12.00	239.99
13	36.915625	-120.802084	230.70	12.00	242.70

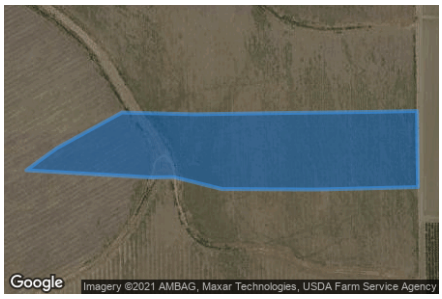
Name: 210
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 18.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915630	-120.806025	231.46	12.00	243.47
2	36.916625	-120.805961	226.25	12.00	238.25
3	36.917663	-120.805961	219.50	12.00	231.50
4	36.918126	-120.806197	217.92	12.00	229.92
5	36.918718	-120.806315	217.30	12.00	229.30
6	36.918718	-120.806787	219.33	12.00	231.33
7	36.917800	-120.807377	224.20	12.00	236.21
8	36.916925	-120.808707	231.41	12.00	243.41
9	36.915913	-120.811036	242.57	12.00	254.58
10	36.915758	-120.809083	237.99	12.00	249.99
11	36.915673	-120.807474	232.98	12.00	244.98

Name: 211
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 17.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

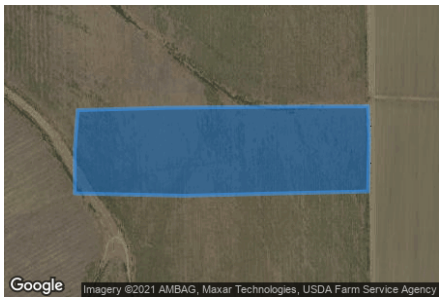
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916865	-120.800875	222.53	12.00	234.53
2	36.917628	-120.800918	217.30	12.00	229.30
3	36.918014	-120.800908	215.72	12.00	227.72
4	36.918546	-120.800886	213.55	12.00	225.55
5	36.918546	-120.801648	213.76	12.00	225.76
6	36.918503	-120.803643	214.38	12.00	226.38
7	36.918512	-120.805242	215.52	12.00	227.52
8	36.918662	-120.805929	217.89	12.00	229.89
9	36.918718	-120.806293	216.90	12.00	228.90
10	36.918726	-120.806326	217.70	12.00	229.70
11	36.918109	-120.806229	218.59	12.00	230.59
12	36.917620	-120.805939	219.76	12.00	231.76
13	36.917482	-120.805628	220.31	12.00	232.31
14	36.917465	-120.804963	219.71	12.00	231.71
15	36.917354	-120.804158	218.85	12.00	230.85
16	36.917088	-120.803236	220.09	12.00	232.09
17	36.916994	-120.802088	222.01	12.00	234.01

Name: 212
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.6 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918563	-120.800908	213.37	12.00	225.37
2	36.919918	-120.800929	208.28	12.00	220.28
3	36.919903	-120.801964	208.69	12.00	220.69
4	36.919884	-120.803826	209.94	12.00	221.94
5	36.919861	-120.805870	211.68	12.00	223.68
6	36.919893	-120.807474	219.55	12.00	231.55
7	36.919258	-120.808922	221.71	12.00	233.71
8	36.918863	-120.809598	227.77	12.00	239.77
9	36.918735	-120.806819	219.40	12.00	231.40
10	36.918743	-120.806336	217.89	12.00	229.89
11	36.918529	-120.805253	215.35	12.00	227.35
12	36.918520	-120.803161	213.24	12.00	225.24

Name: 213
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 24.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919927	-120.800961	208.12	12.00	220.12
2	36.920888	-120.800940	204.10	12.00	216.10
3	36.921428	-120.800961	203.62	12.00	215.62
4	36.921420	-120.803214	202.44	12.00	214.44
5	36.921402	-120.805457	204.20	12.00	216.20
6	36.921359	-120.807409	210.55	12.00	222.55
7	36.920673	-120.807474	217.19	12.00	229.19
8	36.919893	-120.807474	219.55	12.00	231.55
9	36.919850	-120.805027	209.55	12.00	221.55
10	36.919884	-120.803322	208.54	12.00	220.54

Name: 214
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916393	-120.809995	236.65	12.00	248.65
2	36.918143	-120.811164	239.17	12.00	251.18
3	36.918829	-120.811583	238.55	12.00	250.55
4	36.919764	-120.809587	224.74	12.00	236.74
5	36.920639	-120.807460	217.25	12.00	229.26
6	36.920427	-120.807468	218.06	12.00	230.06
7	36.920270	-120.807462	219.05	12.00	231.05
8	36.920199	-120.807476	219.43	12.00	231.43
9	36.919884	-120.807495	219.46	12.00	231.46
10	36.919275	-120.808911	221.70	12.00	233.70
11	36.918838	-120.809609	227.78	12.00	239.78
12	36.918743	-120.806808	219.32	12.00	231.32
13	36.917748	-120.807409	224.48	12.00	236.48
14	36.916942	-120.808718	231.41	12.00	243.41

Name: 215
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 22.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916929	-120.814791	269.17	12.00	281.17
2	36.917534	-120.812575	252.40	12.00	264.40
3	36.918010	-120.811068	238.47	12.00	250.47
4	36.917560	-120.810800	238.22	12.00	250.22
5	36.916367	-120.809995	236.69	12.00	248.69
6	36.915733	-120.811336	243.62	12.00	255.62
7	36.915226	-120.812527	251.95	12.00	263.95
8	36.914875	-120.813342	260.37	12.00	272.37
9	36.914583	-120.813911	269.77	12.00	281.77
10	36.915492	-120.814276	267.04	12.00	279.04
11	36.915947	-120.814501	267.89	12.00	279.89
12	36.916393	-120.814758	269.59	12.00	281.59
13	36.917036	-120.814791	268.85	12.00	280.85

Name: 216
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 15.4 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918006	-120.811064	238.35	12.00	250.35
2	36.918881	-120.811611	238.14	12.00	250.14
3	36.919502	-120.812073	238.21	12.00	250.22
4	36.919078	-120.813564	247.92	12.00	259.92
5	36.918529	-120.815372	266.29	12.00	278.29
6	36.917971	-120.815151	266.31	12.00	278.31
7	36.917448	-120.814929	267.62	12.00	279.62
8	36.917182	-120.814805	267.66	12.00	279.66
9	36.916946	-120.814780	269.15	12.00	281.15
10	36.917467	-120.812836	253.75	12.00	265.75

Name: 217
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 11.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

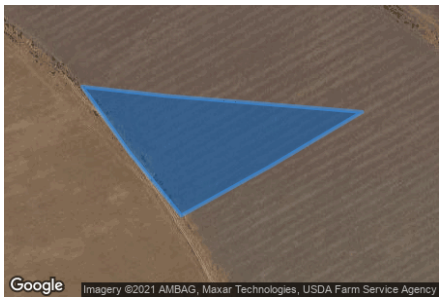
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918829	-120.811595	238.64	12.00	250.64
2	36.919438	-120.810276	226.94	12.00	238.94
3	36.919756	-120.809594	224.74	12.00	236.74
4	36.920510	-120.810179	224.74	12.00	236.75
5	36.921535	-120.810925	221.82	12.00	233.82
6	36.920931	-120.812266	231.56	12.00	243.56
7	36.920626	-120.812936	238.90	12.00	250.90
8	36.919927	-120.812432	239.24	12.00	251.24
9	36.919485	-120.812067	238.32	12.00	250.32

Name: 218
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 9.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919747	-120.809600	224.79	12.00	236.79
2	36.920139	-120.808672	219.61	12.00	231.61
3	36.920641	-120.807484	217.42	12.00	229.42
4	36.920836	-120.807465	213.00	12.00	225.01
5	36.921355	-120.807390	210.21	12.00	222.21
6	36.921407	-120.808913	219.10	12.00	231.10
7	36.921467	-120.809428	218.17	12.00	230.17
8	36.921531	-120.809991	220.12	12.00	232.12
9	36.921540	-120.810925	221.82	12.00	233.82
10	36.920716	-120.810345	224.19	12.00	236.19
11	36.919876	-120.809691	224.64	12.00	236.64
12	36.919730	-120.809562	225.21	12.00	237.21

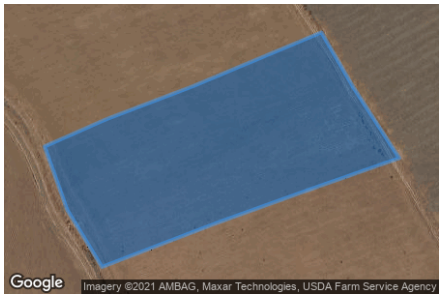
Name: 219
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.0 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.921537	-120.810932	221.78	12.00	233.78
2	36.921679	-120.813104	231.94	12.00	243.94
3	36.921760	-120.814038	238.06	12.00	250.06
4	36.921177	-120.813512	239.96	12.00	251.96
5	36.920624	-120.812938	239.00	12.00	251.00
6	36.921053	-120.811962	229.13	12.00	241.13



Name: 220
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 10.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918535	-120.815375	266.29	12.00	278.29
2	36.918921	-120.814114	253.65	12.00	265.65
3	36.919212	-120.813100	243.96	12.00	255.96
4	36.919500	-120.812076	238.40	12.00	250.40
5	36.920134	-120.812591	239.88	12.00	251.88
6	36.920615	-120.812939	239.10	12.00	251.10
7	36.920139	-120.814361	249.70	12.00	261.70
8	36.919843	-120.815332	259.71	12.00	271.71
9	36.919603	-120.816013	265.28	12.00	277.28
10	36.919041	-120.815761	266.64	12.00	278.64



Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	9.00	398.84
2	36.930831	-120.839764	345.16	9.00	354.16
3	36.931311	-120.839152	331.76	9.00	340.76
4	36.931879	-120.838570	313.43	9.00	322.43
5	36.932249	-120.838334	303.67	9.00	312.67
6	36.932683	-120.838129	292.55	9.00	301.55
7	36.933102	-120.838016	283.04	9.00	292.04
8	36.933551	-120.837962	276.14	9.00	285.14
9	36.935414	-120.837954	266.34	9.00	275.34
10	36.937736	-120.837932	253.93	9.00	262.93
11	36.939812	-120.837911	249.78	9.00	258.78
12	36.941904	-120.837873	241.92	9.00	250.92
13	36.944982	-120.837838	230.10	9.00	239.10
14	36.946799	-120.837838	227.01	9.00	236.01
15	36.948594	-120.837813	207.52	9.00	216.52
16	36.952176	-120.837768	195.16	9.00	204.16
17	36.953786	-120.837762	191.65	9.00	200.65
18	36.955400	-120.837738	187.60	9.00	196.60
19	36.958503	-120.837677	184.65	9.00	193.65
20	36.960861	-120.837691	182.77	9.00	191.77
21	36.963270	-120.837648	180.63	9.00	189.63
22	36.968014	-120.837551	178.62	9.00	187.62
23	36.971867	-120.837524	175.41	9.00	184.41
24	36.973350	-120.837487	172.93	9.00	181.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	9.00	399.98
2	36.861260	-120.781276	387.51	9.00	396.51
3	36.863221	-120.782631	379.39	9.00	388.39
4	36.865259	-120.784039	372.70	9.00	381.70
5	36.867291	-120.785439	370.95	9.00	379.95
6	36.868226	-120.786078	370.80	9.00	379.80
7	36.869165	-120.786731	374.62	9.00	383.62
8	36.870227	-120.787458	372.24	9.00	381.24
9	36.872811	-120.789241	367.41	9.00	376.41
10	36.873987	-120.790051	367.98	9.00	376.98
11	36.876090	-120.791496	372.67	9.00	381.67
12	36.877427	-120.792420	379.00	9.00	388.00
13	36.878413	-120.793104	379.76	9.00	388.77
14	36.879196	-120.793644	383.47	9.00	392.47
15	36.880411	-120.794473	386.63	9.00	395.63
16	36.881831	-120.795455	387.93	9.00	396.93
17	36.882674	-120.796034	389.84	9.00	398.84
18	36.884688	-120.797423	388.03	9.00	397.03
19	36.885889	-120.798255	388.64	9.00	397.64
20	36.887865	-120.799647	384.89	9.00	393.89
21	36.888840	-120.800380	385.22	9.00	394.22
22	36.889802	-120.801152	381.41	9.00	390.42
23	36.891640	-120.802710	376.89	9.00	385.89
24	36.892735	-120.803674	376.35	9.00	385.35
25	36.893599	-120.804416	376.67	9.00	385.67
26	36.894546	-120.805252	376.89	9.00	385.89
27	36.895486	-120.806067	377.65	9.00	386.65
28	36.896430	-120.806891	381.65	9.00	390.65
29	36.897370	-120.807707	382.20	9.00	391.20
30	36.899235	-120.809334	385.47	9.00	394.47
31	36.900185	-120.810164	388.57	9.00	397.57
32	36.900669	-120.810581	387.72	9.00	396.72
33	36.901137	-120.810991	388.60	9.00	397.60
34	36.903198	-120.812792	387.27	9.00	396.27
35	36.905271	-120.814604	383.87	9.00	392.87
36	36.906309	-120.815505	384.00	9.00	393.00
37	36.907344	-120.816403	382.07	9.00	391.07
38	36.908385	-120.817314	379.37	9.00	388.37
39	36.909420	-120.818217	379.13	9.00	388.13
40	36.910429	-120.819096	377.21	9.00	386.21
41	36.911442	-120.819984	376.49	9.00	385.49
42	36.912415	-120.820863	373.69	9.00	382.69
43	36.913366	-120.821782	367.43	9.00	376.43
44	36.914321	-120.822805	365.47	9.00	374.47
45	36.915233	-120.823868	367.60	9.00	376.60
46	36.916132	-120.824979	366.45	9.00	375.45
47	36.917025	-120.826107	374.17	9.00	383.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	9.00	313.72
2	36.946811	-120.860856	315.79	9.00	324.79
3	36.944920	-120.858560	327.30	9.00	336.30
4	36.942472	-120.855567	339.75	9.00	348.75
5	36.941113	-120.853899	344.65	9.00	353.65
6	36.940264	-120.852869	345.01	9.00	354.01
7	36.938843	-120.851133	351.41	9.00	360.42
8	36.937160	-120.849060	358.46	9.00	367.46
9	36.936530	-120.848312	362.19	9.00	371.19
10	36.935415	-120.846941	361.06	9.00	370.06
11	36.934008	-120.845224	356.77	9.00	365.77
12	36.932384	-120.843245	353.56	9.00	362.56
13	36.930747	-120.841287	349.45	9.00	358.45
14	36.929266	-120.839645	350.49	9.00	359.49
15	36.927801	-120.838082	349.50	9.00	358.50
16	36.926290	-120.836545	356.40	9.00	365.40
17	36.924236	-120.834453	372.80	9.00	381.80
18	36.920766	-120.830923	390.69	9.00	399.69
19	36.918107	-120.828198	421.44	9.00	430.44
20	36.916973	-120.827015	429.80	9.00	438.80
21	36.915885	-120.825837	434.02	9.00	443.02
22	36.912651	-120.822211	415.16	9.00	424.16
23	36.911515	-120.820940	405.80	9.00	414.80
24	36.910370	-120.819700	395.93	9.00	404.93
25	36.909432	-120.818759	386.64	9.00	395.64
26	36.908459	-120.817852	385.85	9.00	394.85
27	36.906051	-120.815746	388.11	9.00	397.11
28	36.903644	-120.813649	391.55	9.00	400.55
29	36.901572	-120.811839	394.02	9.00	403.02
30	36.899500	-120.810034	390.78	9.00	399.78
31	36.897490	-120.808272	386.91	9.00	395.91
32	36.894792	-120.805933	382.56	9.00	391.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	9.00	379.01
OP 2	36.928170	-120.838662	352.48	9.00	361.48
OP 3	36.922035	-120.832274	383.43	9.00	392.43
OP 4	36.912179	-120.820990	374.39	9.00	383.39
OP 5	36.900090	-120.810066	387.37	9.00	396.37
OP 6	36.888686	-120.800176	383.36	9.00	392.36
OP 7	36.877627	-120.792463	377.24	9.00	386.25
OP 8	36.866412	-120.784771	371.56	9.00	380.56
OP 9	36.929949	-120.840997	382.20	9.00	391.20
OP 10	36.931418	-120.838949	327.02	9.00	336.02
OP 11	36.933552	-120.837998	276.27	9.00	285.27
OP 12	36.945961	-120.837832	229.99	9.00	238.99
OP 13	36.962157	-120.837614	181.08	9.00	190.08
OP 14	36.865253	-120.783277	365.51	9.00	374.51
OP 15	36.863811	-120.783985	392.58	9.00	401.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
201	SA tracking	SA tracking	0	0	-	
202	SA tracking	SA tracking	0	0	-	
203	SA tracking	SA tracking	0	0	-	
204	SA tracking	SA tracking	0	0	-	
205	SA tracking	SA tracking	0	0	-	
206	SA tracking	SA tracking	0	0	-	
207	SA tracking	SA tracking	0	0	-	
208	SA tracking	SA tracking	0	0	-	
209	SA tracking	SA tracking	0	0	-	
210	SA tracking	SA tracking	0	0	-	
211	SA tracking	SA tracking	0	0	-	
212	SA tracking	SA tracking	0	0	-	
213	SA tracking	SA tracking	0	0	-	
214	SA tracking	SA tracking	0	0	-	
215	SA tracking	SA tracking	0	0	-	
216	SA tracking	SA tracking	0	0	-	
217	SA tracking	SA tracking	0	0	-	
218	SA tracking	SA tracking	0	0	-	
219	SA tracking	SA tracking	0	0	-	
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)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

202 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

203 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

204 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

205 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

206 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

207 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

208 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

209 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

210 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

211 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

212 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

213 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

214 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

215 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

216 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

217 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

218 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

219 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

220 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Zeta Solar

Block 3 6ft pan 5ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57580.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	0	0	-
302	SA tracking	SA tracking	0	0	-
303	SA tracking	SA tracking	0	0	-
304	SA tracking	SA tracking	0	0	-
305	SA tracking	SA tracking	0	0	-
306	SA tracking	SA tracking	0	0	-
307	SA tracking	SA tracking	0	0	-

PV Array(s)

Total PV footprint area: 83.5 acres

Name: 301
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919630	-120.816067	265.62	6.00	271.62
2	36.920094	-120.814586	251.18	6.00	257.18
3	36.920608	-120.812956	239.27	6.00	245.27
4	36.921620	-120.813921	238.11	6.00	244.11
5	36.921612	-120.817376	257.25	6.00	263.25
6	36.920986	-120.818459	267.18	6.00	273.18
7	36.920342	-120.816990	266.07	6.00	272.07

Name: 302
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.921625	-120.817390	257.24	6.00	263.24
2	36.921547	-120.820147	264.36	6.00	270.36
3	36.920244	-120.820137	277.18	6.00	283.18
4	36.918640	-120.820083	295.81	6.00	301.81
5	36.918674	-120.818559	287.92	6.00	293.92
6	36.918708	-120.816221	271.03	6.00	277.03
7	36.918708	-120.815502	266.02	6.00	272.02
8	36.919154	-120.815802	265.96	6.00	271.96
9	36.919618	-120.816017	265.26	6.00	271.26
10	36.919815	-120.816328	267.64	6.00	273.64
11	36.920064	-120.816618	267.71	6.00	273.71
12	36.920364	-120.817047	266.04	6.00	272.04
13	36.920664	-120.817744	268.32	6.00	274.32
14	36.920990	-120.818495	267.43	6.00	273.43

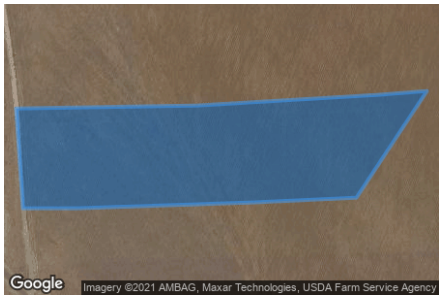
Name: 303
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918623	-120.820083	296.25	6.00	302.25
2	36.917559	-120.820083	305.79	6.00	311.79
3	36.917619	-120.818441	293.15	6.00	299.15
4	36.917679	-120.816532	278.17	6.00	284.17
5	36.917722	-120.815073	266.45	6.00	272.45
6	36.918254	-120.815287	267.07	6.00	273.07
7	36.918726	-120.815523	266.13	6.00	272.13
8	36.918683	-120.817186	280.31	6.00	286.31
9	36.918691	-120.818796	288.60	6.00	294.61

Name: 304
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.917542	-120.820072	305.74	6.00	311.74
2	36.916495	-120.819986	309.64	6.00	315.64
3	36.916512	-120.818098	295.11	6.00	301.11
4	36.916641	-120.815459	275.96	6.00	281.96
5	36.917447	-120.814955	267.80	6.00	273.80
6	36.917722	-120.815062	266.39	6.00	272.39
7	36.917670	-120.816768	280.89	6.00	286.89
8	36.917619	-120.818227	292.18	6.00	298.18

Name: 305
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 8.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916495	-120.820008	309.74	6.00	315.74
2	36.916521	-120.818002	294.31	6.00	300.31
3	36.916615	-120.815995	279.21	6.00	285.21
4	36.916650	-120.815448	275.91	6.00	281.91
5	36.915706	-120.816231	285.26	6.00	291.26
6	36.915663	-120.817401	293.24	6.00	299.24
7	36.915612	-120.819343	313.11	6.00	319.11
8	36.915612	-120.819933	317.65	6.00	323.65

Name: 306
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 5.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915569	-120.819901	318.40	6.00	324.40
2	36.914908	-120.819879	323.28	6.00	329.29
3	36.914934	-120.818130	305.82	6.00	311.82
4	36.914960	-120.816929	295.02	6.00	301.02
5	36.915689	-120.816264	285.00	6.00	291.00
6	36.915646	-120.817862	297.07	6.00	303.07
7	36.915612	-120.818924	307.19	6.00	313.19

Name: 307
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.8 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.914917	-120.819879	323.19	6.00	329.19
2	36.913973	-120.818924	317.56	6.00	323.56
3	36.913665	-120.818484	315.14	6.00	321.14
4	36.914282	-120.817712	302.56	6.00	308.56
5	36.914582	-120.817240	297.66	6.00	303.66
6	36.914960	-120.816918	294.96	6.00	300.96
7	36.914943	-120.817916	303.88	6.00	309.88

Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	5.00	394.84
2	36.930831	-120.839764	345.16	5.00	350.16
3	36.931311	-120.839152	331.76	5.00	336.76
4	36.931879	-120.838570	313.43	5.00	318.43
5	36.932249	-120.838334	303.67	5.00	308.67
6	36.932683	-120.838129	292.55	5.00	297.55
7	36.933102	-120.838016	283.04	5.00	288.04
8	36.933551	-120.837962	276.14	5.00	281.14
9	36.935414	-120.837954	266.34	5.00	271.34
10	36.937736	-120.837932	253.93	5.00	258.93
11	36.939812	-120.837911	249.78	5.00	254.78
12	36.941904	-120.837873	241.92	5.00	246.92
13	36.945008	-120.837838	230.33	5.00	235.33
14	36.946799	-120.837838	227.01	5.00	232.01
15	36.948594	-120.837813	207.52	5.00	212.52
16	36.952176	-120.837768	195.16	5.00	200.16
17	36.953786	-120.837762	191.65	5.00	196.65
18	36.955400	-120.837738	187.60	5.00	192.60
19	36.958503	-120.837677	184.65	5.00	189.65
20	36.960861	-120.837691	182.77	5.00	187.77
21	36.963270	-120.837648	180.63	5.00	185.63
22	36.968014	-120.837551	178.62	5.00	183.62
23	36.971867	-120.837524	175.41	5.00	180.41
24	36.973350	-120.837487	172.93	5.00	177.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	5.00	395.98
2	36.861260	-120.781276	387.51	5.00	392.51
3	36.863221	-120.782631	379.39	5.00	384.39
4	36.865259	-120.784039	372.70	5.00	377.70
5	36.867291	-120.785439	370.95	5.00	375.95
6	36.868226	-120.786078	370.80	5.00	375.80
7	36.869165	-120.786731	374.62	5.00	379.62
8	36.870227	-120.787458	372.24	5.00	377.24
9	36.872811	-120.789241	367.41	5.00	372.41
10	36.873987	-120.790051	367.98	5.00	372.98
11	36.876090	-120.791496	372.67	5.00	377.67
12	36.877427	-120.792420	379.00	5.00	384.00
13	36.878413	-120.793104	379.76	5.00	384.77
14	36.879196	-120.793644	383.47	5.00	388.47
15	36.880411	-120.794473	386.63	5.00	391.63
16	36.881831	-120.795455	387.93	5.00	392.93
17	36.882674	-120.796034	389.84	5.00	394.84
18	36.884688	-120.797423	388.03	5.00	393.03
19	36.885889	-120.798255	388.64	5.00	393.64
20	36.887865	-120.799647	384.89	5.00	389.89
21	36.888840	-120.800380	385.22	5.00	390.22
22	36.889802	-120.801152	381.41	5.00	386.41
23	36.891640	-120.802710	376.89	5.00	381.89
24	36.892735	-120.803674	376.35	5.00	381.35
25	36.893599	-120.804416	376.67	5.00	381.67
26	36.894546	-120.805252	376.89	5.00	381.89
27	36.895486	-120.806067	377.65	5.00	382.65
28	36.896430	-120.806891	381.65	5.00	386.65
29	36.897370	-120.807707	382.20	5.00	387.20
30	36.899235	-120.809334	385.47	5.00	390.47
31	36.900185	-120.810164	388.57	5.00	393.57
32	36.900669	-120.810581	387.72	5.00	392.72
33	36.901137	-120.810991	388.60	5.00	393.60
34	36.903198	-120.812792	387.27	5.00	392.27
35	36.905271	-120.814604	383.87	5.00	388.87
36	36.906309	-120.815505	384.00	5.00	389.00
37	36.907344	-120.816403	382.07	5.00	387.07
38	36.908385	-120.817314	379.37	5.00	384.37
39	36.909420	-120.818217	379.13	5.00	384.13
40	36.910429	-120.819096	377.21	5.00	382.21
41	36.911442	-120.819984	376.49	5.00	381.49
42	36.912415	-120.820863	373.69	5.00	378.69
43	36.913366	-120.821782	367.43	5.00	372.43
44	36.914321	-120.822805	365.47	5.00	370.47
45	36.915233	-120.823868	367.60	5.00	372.60
46	36.916132	-120.824979	366.45	5.00	371.45
47	36.917025	-120.826107	374.17	5.00	379.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	5.00	309.72
2	36.946811	-120.860856	315.79	5.00	320.79
3	36.944920	-120.858560	327.30	5.00	332.30
4	36.942472	-120.855567	339.75	5.00	344.75
5	36.941113	-120.853899	344.65	5.00	349.65
6	36.940264	-120.852869	345.01	5.00	350.01
7	36.938843	-120.851133	351.41	5.00	356.42
8	36.937160	-120.849060	358.46	5.00	363.46
9	36.936530	-120.848312	362.19	5.00	367.19
10	36.935415	-120.846941	361.06	5.00	366.06
11	36.934008	-120.845224	356.77	5.00	361.77
12	36.932384	-120.843245	353.56	5.00	358.56
13	36.930747	-120.841287	349.45	5.00	354.45
14	36.929266	-120.839645	350.49	5.00	355.49
15	36.927801	-120.838082	349.50	5.00	354.50
16	36.926290	-120.836545	356.40	5.00	361.40
17	36.924236	-120.834453	372.80	5.00	377.80
18	36.920766	-120.830923	390.69	5.00	395.69
19	36.918107	-120.828198	421.44	5.00	426.44
20	36.916973	-120.827015	429.80	5.00	434.80
21	36.915885	-120.825837	434.02	5.00	439.02
22	36.912651	-120.822211	415.16	5.00	420.16
23	36.911515	-120.820940	405.80	5.00	410.80
24	36.910370	-120.819700	395.93	5.00	400.93
25	36.909432	-120.818759	386.64	5.00	391.64
26	36.908459	-120.817852	385.85	5.00	390.85
27	36.906051	-120.815746	388.11	5.00	393.11
28	36.903644	-120.813649	391.55	5.00	396.55
29	36.901572	-120.811839	394.02	5.00	399.02
30	36.899500	-120.810034	390.78	5.00	395.78
31	36.897490	-120.808272	386.91	5.00	391.91
32	36.894792	-120.805933	382.56	5.00	387.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	5.00	375.01
OP 2	36.928170	-120.838662	352.48	5.00	357.48
OP 3	36.922035	-120.832274	383.43	5.00	388.43
OP 4	36.912179	-120.820990	374.39	5.00	379.39
OP 5	36.900090	-120.810066	387.37	5.00	392.37
OP 6	36.888686	-120.800176	383.36	5.00	388.36
OP 7	36.877627	-120.792463	377.24	5.00	382.25
OP 8	36.866412	-120.784771	371.56	5.00	376.56
OP 9	36.929949	-120.840997	382.20	5.00	387.20
OP 10	36.931418	-120.838949	327.02	5.00	332.02
OP 11	36.933552	-120.837998	276.27	5.00	281.27
OP 12	36.945961	-120.837832	229.99	5.00	234.99
OP 13	36.962157	-120.837614	181.08	5.00	186.08
OP 14	36.865253	-120.783277	365.51	5.00	370.51
OP 15	36.863811	-120.783985	392.58	5.00	397.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
301	SA tracking	SA tracking	0	0	-	
302	SA tracking	SA tracking	0	0	-	
303	SA tracking	SA tracking	0	0	-	
304	SA tracking	SA tracking	0	0	-	
305	SA tracking	SA tracking	0	0	-	
306	SA tracking	SA tracking	0	0	-	
307	SA tracking	SA tracking	0	0	-	

PV & Receptor Analysis Results

Results for each PV array and receptor

301 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

302 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

303 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

304 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

305 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

306 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

307 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Zeta Solar

Block 3 6ft pan 9ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57598.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	0	0	-
302	SA tracking	SA tracking	0	0	-
303	SA tracking	SA tracking	0	0	-
304	SA tracking	SA tracking	0	0	-
305	SA tracking	SA tracking	0	0	-
306	SA tracking	SA tracking	0	0	-
307	SA tracking	SA tracking	0	0	-

PV Array(s)

Total PV footprint area: 83.5 acres

Name: 301
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919630	-120.816067	265.62	6.00	271.62
2	36.920094	-120.814586	251.18	6.00	257.18
3	36.920608	-120.812956	239.27	6.00	245.27
4	36.921620	-120.813921	238.11	6.00	244.11
5	36.921612	-120.817376	257.25	6.00	263.25
6	36.920986	-120.818459	267.18	6.00	273.18
7	36.920342	-120.816990	266.07	6.00	272.07

Name: 302
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.921625	-120.817390	257.24	6.00	263.24
2	36.921547	-120.820147	264.36	6.00	270.36
3	36.920244	-120.820137	277.18	6.00	283.18
4	36.918640	-120.820083	295.81	6.00	301.81
5	36.918674	-120.818559	287.92	6.00	293.92
6	36.918708	-120.816221	271.03	6.00	277.03
7	36.918708	-120.815502	266.02	6.00	272.02
8	36.919154	-120.815802	265.96	6.00	271.96
9	36.919618	-120.816017	265.26	6.00	271.26
10	36.919815	-120.816328	267.64	6.00	273.64
11	36.920064	-120.816618	267.71	6.00	273.71
12	36.920364	-120.817047	266.04	6.00	272.04
13	36.920664	-120.817744	268.32	6.00	274.32
14	36.920990	-120.818495	267.43	6.00	273.43

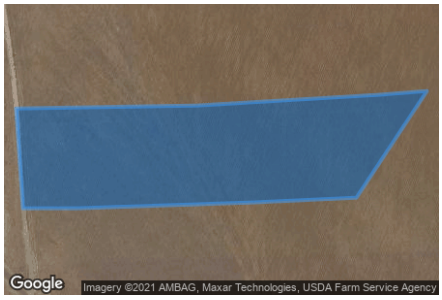
Name: 303
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918623	-120.820083	296.25	6.00	302.25
2	36.917559	-120.820083	305.79	6.00	311.79
3	36.917619	-120.818441	293.15	6.00	299.15
4	36.917679	-120.816532	278.17	6.00	284.17
5	36.917722	-120.815073	266.45	6.00	272.45
6	36.918254	-120.815287	267.07	6.00	273.07
7	36.918726	-120.815523	266.13	6.00	272.13
8	36.918683	-120.817186	280.31	6.00	286.31
9	36.918691	-120.818796	288.60	6.00	294.61

Name: 304
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.917542	-120.820072	305.74	6.00	311.74
2	36.916495	-120.819986	309.64	6.00	315.64
3	36.916512	-120.818098	295.11	6.00	301.11
4	36.916641	-120.815459	275.96	6.00	281.96
5	36.917447	-120.814955	267.80	6.00	273.80
6	36.917722	-120.815062	266.39	6.00	272.39
7	36.917670	-120.816768	280.89	6.00	286.89
8	36.917619	-120.818227	292.18	6.00	298.18

Name: 305
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 8.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916495	-120.820008	309.74	6.00	315.74
2	36.916521	-120.818002	294.31	6.00	300.31
3	36.916615	-120.815995	279.21	6.00	285.21
4	36.916650	-120.815448	275.91	6.00	281.91
5	36.915706	-120.816231	285.26	6.00	291.26
6	36.915663	-120.817401	293.24	6.00	299.24
7	36.915612	-120.819343	313.11	6.00	319.11
8	36.915612	-120.819933	317.65	6.00	323.65

Name: 306
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 5.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915569	-120.819901	318.40	6.00	324.40
2	36.914908	-120.819879	323.28	6.00	329.29
3	36.914934	-120.818130	305.82	6.00	311.82
4	36.914960	-120.816929	295.02	6.00	301.02
5	36.915689	-120.816264	285.00	6.00	291.00
6	36.915646	-120.817862	297.07	6.00	303.07
7	36.915612	-120.818924	307.19	6.00	313.19

Name: 307
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.8 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.914917	-120.819879	323.19	6.00	329.19
2	36.913973	-120.818924	317.56	6.00	323.56
3	36.913665	-120.818484	315.14	6.00	321.14
4	36.914282	-120.817712	302.56	6.00	308.56
5	36.914582	-120.817240	297.66	6.00	303.66
6	36.914960	-120.816918	294.96	6.00	300.96
7	36.914943	-120.817916	303.88	6.00	309.88

Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	9.00	398.84
2	36.930831	-120.839764	345.16	9.00	354.16
3	36.931311	-120.839152	331.76	9.00	340.76
4	36.931879	-120.838570	313.43	9.00	322.43
5	36.932249	-120.838334	303.67	9.00	312.67
6	36.932683	-120.838129	292.55	9.00	301.55
7	36.933102	-120.838016	283.04	9.00	292.04
8	36.933551	-120.837962	276.14	9.00	285.14
9	36.935414	-120.837954	266.34	9.00	275.34
10	36.937736	-120.837932	253.93	9.00	262.93
11	36.939812	-120.837911	249.78	9.00	258.78
12	36.941904	-120.837873	241.92	9.00	250.92
13	36.945008	-120.837838	230.33	9.00	239.33
14	36.946799	-120.837838	227.01	9.00	236.01
15	36.948594	-120.837813	207.52	9.00	216.52
16	36.952176	-120.837768	195.16	9.00	204.16
17	36.953786	-120.837762	191.65	9.00	200.65
18	36.955400	-120.837738	187.60	9.00	196.60
19	36.958503	-120.837677	184.65	9.00	193.65
20	36.960861	-120.837691	182.77	9.00	191.77
21	36.963270	-120.837648	180.63	9.00	189.63
22	36.968014	-120.837551	178.62	9.00	187.62
23	36.971867	-120.837524	175.41	9.00	184.41
24	36.973350	-120.837487	172.93	9.00	181.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	9.00	399.98
2	36.861260	-120.781276	387.51	9.00	396.51
3	36.863221	-120.782631	379.39	9.00	388.39
4	36.865259	-120.784039	372.70	9.00	381.70
5	36.867291	-120.785439	370.95	9.00	379.95
6	36.868226	-120.786078	370.80	9.00	379.80
7	36.869165	-120.786731	374.62	9.00	383.62
8	36.870227	-120.787458	372.24	9.00	381.24
9	36.872811	-120.789241	367.41	9.00	376.41
10	36.873987	-120.790051	367.98	9.00	376.98
11	36.876090	-120.791496	372.67	9.00	381.67
12	36.877427	-120.792420	379.00	9.00	388.00
13	36.878413	-120.793104	379.76	9.00	388.77
14	36.879196	-120.793644	383.47	9.00	392.47
15	36.880411	-120.794473	386.63	9.00	395.63
16	36.881831	-120.795455	387.93	9.00	396.93
17	36.882674	-120.796034	389.84	9.00	398.84
18	36.884688	-120.797423	388.03	9.00	397.03
19	36.885889	-120.798255	388.64	9.00	397.64
20	36.887865	-120.799647	384.89	9.00	393.89
21	36.888840	-120.800380	385.22	9.00	394.22
22	36.889802	-120.801152	381.41	9.00	390.42
23	36.891640	-120.802710	376.89	9.00	385.89
24	36.892735	-120.803674	376.35	9.00	385.35
25	36.893599	-120.804416	376.67	9.00	385.67
26	36.894546	-120.805252	376.89	9.00	385.89
27	36.895486	-120.806067	377.65	9.00	386.65
28	36.896430	-120.806891	381.65	9.00	390.65
29	36.897370	-120.807707	382.20	9.00	391.20
30	36.899235	-120.809334	385.47	9.00	394.47
31	36.900185	-120.810164	388.57	9.00	397.57
32	36.900669	-120.810581	387.72	9.00	396.72
33	36.901137	-120.810991	388.60	9.00	397.60
34	36.903198	-120.812792	387.27	9.00	396.27
35	36.905271	-120.814604	383.87	9.00	392.87
36	36.906309	-120.815505	384.00	9.00	393.00
37	36.907344	-120.816403	382.07	9.00	391.07
38	36.908385	-120.817314	379.37	9.00	388.37
39	36.909420	-120.818217	379.13	9.00	388.13
40	36.910429	-120.819096	377.21	9.00	386.21
41	36.911442	-120.819984	376.49	9.00	385.49
42	36.912415	-120.820863	373.69	9.00	382.69
43	36.913366	-120.821782	367.43	9.00	376.43
44	36.914321	-120.822805	365.47	9.00	374.47
45	36.915233	-120.823868	367.60	9.00	376.60
46	36.916132	-120.824979	366.45	9.00	375.45
47	36.917025	-120.826107	374.17	9.00	383.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	9.00	313.72
2	36.946811	-120.860856	315.79	9.00	324.79
3	36.944920	-120.858560	327.30	9.00	336.30
4	36.942472	-120.855567	339.75	9.00	348.75
5	36.941113	-120.853899	344.65	9.00	353.65
6	36.940264	-120.852869	345.01	9.00	354.01
7	36.938843	-120.851133	351.41	9.00	360.42
8	36.937160	-120.849060	358.46	9.00	367.46
9	36.936530	-120.848312	362.19	9.00	371.19
10	36.935415	-120.846941	361.06	9.00	370.06
11	36.934008	-120.845224	356.77	9.00	365.77
12	36.932384	-120.843245	353.56	9.00	362.56
13	36.930747	-120.841287	349.45	9.00	358.45
14	36.929266	-120.839645	350.49	9.00	359.49
15	36.927801	-120.838082	349.50	9.00	358.50
16	36.926290	-120.836545	356.40	9.00	365.40
17	36.924236	-120.834453	372.80	9.00	381.80
18	36.920766	-120.830923	390.69	9.00	399.69
19	36.918107	-120.828198	421.44	9.00	430.44
20	36.916973	-120.827015	429.80	9.00	438.80
21	36.915885	-120.825837	434.02	9.00	443.02
22	36.912651	-120.822211	415.16	9.00	424.16
23	36.911515	-120.820940	405.80	9.00	414.80
24	36.910370	-120.819700	395.93	9.00	404.93
25	36.909432	-120.818759	386.64	9.00	395.64
26	36.908459	-120.817852	385.85	9.00	394.85
27	36.906051	-120.815746	388.11	9.00	397.11
28	36.903644	-120.813649	391.55	9.00	400.55
29	36.901572	-120.811839	394.02	9.00	403.02
30	36.899500	-120.810034	390.78	9.00	399.78
31	36.897490	-120.808272	386.91	9.00	395.91
32	36.894792	-120.805933	382.56	9.00	391.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	9.00	379.01
OP 2	36.928170	-120.838662	352.48	9.00	361.48
OP 3	36.922035	-120.832274	383.43	9.00	392.43
OP 4	36.912179	-120.820990	374.39	9.00	383.39
OP 5	36.900090	-120.810066	387.37	9.00	396.37
OP 6	36.888686	-120.800176	383.36	9.00	392.36
OP 7	36.877627	-120.792463	377.24	9.00	386.25
OP 8	36.866412	-120.784771	371.56	9.00	380.56
OP 9	36.929949	-120.840997	382.20	9.00	391.20
OP 10	36.931418	-120.838949	327.02	9.00	336.02
OP 11	36.933552	-120.837998	276.27	9.00	285.27
OP 12	36.945961	-120.837832	229.99	9.00	238.99
OP 13	36.962157	-120.837614	181.08	9.00	190.08
OP 14	36.865253	-120.783277	365.51	9.00	374.51
OP 15	36.863811	-120.783985	392.58	9.00	401.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
301	SA tracking	SA tracking	0	0	-	
302	SA tracking	SA tracking	0	0	-	
303	SA tracking	SA tracking	0	0	-	
304	SA tracking	SA tracking	0	0	-	
305	SA tracking	SA tracking	0	0	-	
306	SA tracking	SA tracking	0	0	-	
307	SA tracking	SA tracking	0	0	-	

PV & Receptor Analysis Results

Results for each PV array and receptor

301 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

302 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

303 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

304 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

305 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

306 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

307 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Zeta Solar

Block 3 12ft pan 5ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57594.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	0	0	-
302	SA tracking	SA tracking	0	0	-
303	SA tracking	SA tracking	0	0	-
304	SA tracking	SA tracking	0	0	-
305	SA tracking	SA tracking	0	0	-
306	SA tracking	SA tracking	0	0	-
307	SA tracking	SA tracking	0	0	-

PV Array(s)

Total PV footprint area: 83.5 acres

Name: 301
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919630	-120.816067	265.62	12.00	277.62
2	36.920094	-120.814586	251.18	12.00	263.18
3	36.920608	-120.812956	239.27	12.00	251.27
4	36.921620	-120.813921	238.11	12.00	250.11
5	36.921612	-120.817376	257.25	12.00	269.25
6	36.920986	-120.818459	267.18	12.00	279.18
7	36.920342	-120.816990	266.07	12.00	278.07

Name: 302
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.921625	-120.817390	257.24	12.00	269.24
2	36.921547	-120.820147	264.36	12.00	276.36
3	36.920244	-120.820137	277.18	12.00	289.18
4	36.918640	-120.820083	295.81	12.00	307.81
5	36.918674	-120.818559	287.92	12.00	299.92
6	36.918708	-120.816221	271.03	12.00	283.03
7	36.918708	-120.815502	266.02	12.00	278.02
8	36.919154	-120.815802	265.96	12.00	277.96
9	36.919618	-120.816017	265.26	12.00	277.26
10	36.919815	-120.816328	267.64	12.00	279.64
11	36.920064	-120.816618	267.71	12.00	279.71
12	36.920364	-120.817047	266.04	12.00	278.04
13	36.920664	-120.817744	268.32	12.00	280.32
14	36.920990	-120.818495	267.43	12.00	279.43

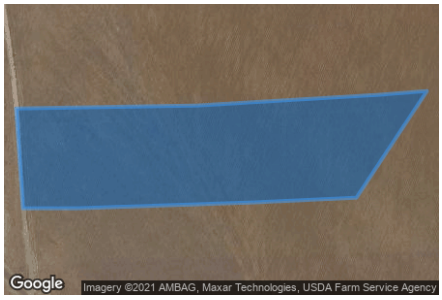
Name: 303
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918623	-120.820083	296.25	12.00	308.25
2	36.917559	-120.820083	305.79	12.00	317.79
3	36.917619	-120.818441	293.15	12.00	305.15
4	36.917679	-120.816532	278.17	12.00	290.17
5	36.917722	-120.815073	266.45	12.00	278.45
6	36.918254	-120.815287	267.07	12.00	279.07
7	36.918726	-120.815523	266.13	12.00	278.13
8	36.918683	-120.817186	280.31	12.00	292.31
9	36.918691	-120.818796	288.60	12.00	300.61

Name: 304
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.917542	-120.820072	305.74	12.00	317.74
2	36.916495	-120.819986	309.64	12.00	321.64
3	36.916512	-120.818098	295.11	12.00	307.11
4	36.916641	-120.815459	275.96	12.00	287.96
5	36.917447	-120.814955	267.80	12.00	279.80
6	36.917722	-120.815062	266.39	12.00	278.39
7	36.917670	-120.816768	280.89	12.00	292.89
8	36.917619	-120.818227	292.18	12.00	304.18

Name: 305
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 8.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916495	-120.820008	309.74	12.00	321.74
2	36.916521	-120.818002	294.31	12.00	306.31
3	36.916615	-120.815995	279.21	12.00	291.21
4	36.916650	-120.815448	275.91	12.00	287.91
5	36.915706	-120.816231	285.26	12.00	297.26
6	36.915663	-120.817401	293.24	12.00	305.24
7	36.915612	-120.819343	313.11	12.00	325.11
8	36.915612	-120.819933	317.65	12.00	329.65

Name: 306
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 5.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915569	-120.819901	318.40	12.00	330.41
2	36.914908	-120.819879	323.28	12.00	335.29
3	36.914934	-120.818130	305.82	12.00	317.82
4	36.914960	-120.816929	295.02	12.00	307.02
5	36.915689	-120.816264	285.00	12.00	297.00
6	36.915646	-120.817862	297.07	12.00	309.07
7	36.915612	-120.818924	307.19	12.00	319.19

Name: 307
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.8 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.914917	-120.819879	323.19	12.00	335.19
2	36.913973	-120.818924	317.56	12.00	329.56
3	36.913665	-120.818484	315.14	12.00	327.14
4	36.914282	-120.817712	302.56	12.00	314.56
5	36.914582	-120.817240	297.66	12.00	309.66
6	36.914960	-120.816918	294.96	12.00	306.96
7	36.914943	-120.817916	303.88	12.00	315.88

Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	5.00	394.84
2	36.930831	-120.839764	345.16	5.00	350.16
3	36.931311	-120.839152	331.76	5.00	336.76
4	36.931879	-120.838570	313.43	5.00	318.43
5	36.932249	-120.838334	303.67	5.00	308.67
6	36.932683	-120.838129	292.55	5.00	297.55
7	36.933102	-120.838016	283.04	5.00	288.04
8	36.933551	-120.837962	276.14	5.00	281.14
9	36.935414	-120.837954	266.34	5.00	271.34
10	36.937736	-120.837932	253.93	5.00	258.93
11	36.939812	-120.837911	249.78	5.00	254.78
12	36.941904	-120.837873	241.92	5.00	246.92
13	36.945008	-120.837838	230.33	5.00	235.33
14	36.946799	-120.837838	227.01	5.00	232.01
15	36.948594	-120.837813	207.52	5.00	212.52
16	36.952176	-120.837768	195.16	5.00	200.16
17	36.953786	-120.837762	191.65	5.00	196.65
18	36.955400	-120.837738	187.60	5.00	192.60
19	36.958503	-120.837677	184.65	5.00	189.65
20	36.960861	-120.837691	182.77	5.00	187.77
21	36.963270	-120.837648	180.63	5.00	185.63
22	36.968014	-120.837551	178.62	5.00	183.62
23	36.971867	-120.837524	175.41	5.00	180.41
24	36.973350	-120.837487	172.93	5.00	177.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	5.00	395.98
2	36.861260	-120.781276	387.51	5.00	392.51
3	36.863221	-120.782631	379.39	5.00	384.39
4	36.865259	-120.784039	372.70	5.00	377.70
5	36.867291	-120.785439	370.95	5.00	375.95
6	36.868226	-120.786078	370.80	5.00	375.80
7	36.869165	-120.786731	374.62	5.00	379.62
8	36.870227	-120.787458	372.24	5.00	377.24
9	36.872811	-120.789241	367.41	5.00	372.41
10	36.873987	-120.790051	367.98	5.00	372.98
11	36.876090	-120.791496	372.67	5.00	377.67
12	36.877427	-120.792420	379.00	5.00	384.00
13	36.878413	-120.793104	379.76	5.00	384.77
14	36.879196	-120.793644	383.47	5.00	388.47
15	36.880411	-120.794473	386.63	5.00	391.63
16	36.881831	-120.795455	387.93	5.00	392.93
17	36.882674	-120.796034	389.84	5.00	394.84
18	36.884688	-120.797423	388.03	5.00	393.03
19	36.885889	-120.798255	388.64	5.00	393.64
20	36.887865	-120.799647	384.89	5.00	389.89
21	36.888840	-120.800380	385.22	5.00	390.22
22	36.889802	-120.801152	381.41	5.00	386.41
23	36.891640	-120.802710	376.89	5.00	381.89
24	36.892735	-120.803674	376.35	5.00	381.35
25	36.893599	-120.804416	376.67	5.00	381.67
26	36.894546	-120.805252	376.89	5.00	381.89
27	36.895486	-120.806067	377.65	5.00	382.65
28	36.896430	-120.806891	381.65	5.00	386.65
29	36.897370	-120.807707	382.20	5.00	387.20
30	36.899235	-120.809334	385.47	5.00	390.47
31	36.900185	-120.810164	388.57	5.00	393.57
32	36.900669	-120.810581	387.72	5.00	392.72
33	36.901137	-120.810991	388.60	5.00	393.60
34	36.903198	-120.812792	387.27	5.00	392.27
35	36.905271	-120.814604	383.87	5.00	388.87
36	36.906309	-120.815505	384.00	5.00	389.00
37	36.907344	-120.816403	382.07	5.00	387.07
38	36.908385	-120.817314	379.37	5.00	384.37
39	36.909420	-120.818217	379.13	5.00	384.13
40	36.910429	-120.819096	377.21	5.00	382.21
41	36.911442	-120.819984	376.49	5.00	381.49
42	36.912415	-120.820863	373.69	5.00	378.69
43	36.913366	-120.821782	367.43	5.00	372.43
44	36.914321	-120.822805	365.47	5.00	370.47
45	36.915233	-120.823868	367.60	5.00	372.60
46	36.916132	-120.824979	366.45	5.00	371.45
47	36.917025	-120.826107	374.17	5.00	379.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	5.00	309.72
2	36.946811	-120.860856	315.79	5.00	320.79
3	36.944920	-120.858560	327.30	5.00	332.30
4	36.942472	-120.855567	339.75	5.00	344.75
5	36.941113	-120.853899	344.65	5.00	349.65
6	36.940264	-120.852869	345.01	5.00	350.01
7	36.938843	-120.851133	351.41	5.00	356.42
8	36.937160	-120.849060	358.46	5.00	363.46
9	36.936530	-120.848312	362.19	5.00	367.19
10	36.935415	-120.846941	361.06	5.00	366.06
11	36.934008	-120.845224	356.77	5.00	361.77
12	36.932384	-120.843245	353.56	5.00	358.56
13	36.930747	-120.841287	349.45	5.00	354.45
14	36.929266	-120.839645	350.49	5.00	355.49
15	36.927801	-120.838082	349.50	5.00	354.50
16	36.926290	-120.836545	356.40	5.00	361.40
17	36.924236	-120.834453	372.80	5.00	377.80
18	36.920766	-120.830923	390.69	5.00	395.69
19	36.918107	-120.828198	421.44	5.00	426.44
20	36.916973	-120.827015	429.80	5.00	434.80
21	36.915885	-120.825837	434.02	5.00	439.02
22	36.912651	-120.822211	415.16	5.00	420.16
23	36.911515	-120.820940	405.80	5.00	410.80
24	36.910370	-120.819700	395.93	5.00	400.93
25	36.909432	-120.818759	386.64	5.00	391.64
26	36.908459	-120.817852	385.85	5.00	390.85
27	36.906051	-120.815746	388.11	5.00	393.11
28	36.903644	-120.813649	391.55	5.00	396.55
29	36.901572	-120.811839	394.02	5.00	399.02
30	36.899500	-120.810034	390.78	5.00	395.78
31	36.897490	-120.808272	386.91	5.00	391.91
32	36.894792	-120.805933	382.56	5.00	387.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	5.00	375.01
OP 2	36.928170	-120.838662	352.48	5.00	357.48
OP 3	36.922035	-120.832274	383.43	5.00	388.43
OP 4	36.912179	-120.820990	374.39	5.00	379.39
OP 5	36.900090	-120.810066	387.37	5.00	392.37
OP 6	36.888686	-120.800176	383.36	5.00	388.36
OP 7	36.877627	-120.792463	377.24	5.00	382.25
OP 8	36.866412	-120.784771	371.56	5.00	376.56
OP 9	36.929949	-120.840997	382.20	5.00	387.20
OP 10	36.931418	-120.838949	327.02	5.00	332.02
OP 11	36.933552	-120.837998	276.27	5.00	281.27
OP 12	36.945961	-120.837832	229.99	5.00	234.99
OP 13	36.962157	-120.837614	181.08	5.00	186.08
OP 14	36.865253	-120.783277	365.51	5.00	370.51
OP 15	36.863811	-120.783985	392.58	5.00	397.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
301	SA tracking	SA tracking	0	0	-	
302	SA tracking	SA tracking	0	0	-	
303	SA tracking	SA tracking	0	0	-	
304	SA tracking	SA tracking	0	0	-	
305	SA tracking	SA tracking	0	0	-	
306	SA tracking	SA tracking	0	0	-	
307	SA tracking	SA tracking	0	0	-	

PV & Receptor Analysis Results

Results for each PV array and receptor

301 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

302 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

303 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

304 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

305 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

306 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

307 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

Zeta Solar

Block 3 12ft pan 9ft veh

Created Aug. 19, 2021
Updated Aug. 19, 2021
Time-step 1 minute
Timezone offset UTC-8
Site ID 57597.10291

Project type Advanced
Project status: active
Category 1 MW to 5 MW

Misc. Analysis Settings

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

Analysis Methodologies:

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

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
301	SA tracking	SA tracking	0	0	-
302	SA tracking	SA tracking	0	0	-
303	SA tracking	SA tracking	0	0	-
304	SA tracking	SA tracking	0	0	-
305	SA tracking	SA tracking	0	0	-
306	SA tracking	SA tracking	0	0	-
307	SA tracking	SA tracking	0	0	-

PV Array(s)

Total PV footprint area: 83.5 acres

Name: 301
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 16.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.919630	-120.816067	265.62	12.00	277.62
2	36.920094	-120.814586	251.18	12.00	263.18
3	36.920608	-120.812956	239.27	12.00	251.27
4	36.921620	-120.813921	238.11	12.00	250.11
5	36.921612	-120.817376	257.25	12.00	269.25
6	36.920986	-120.818459	267.18	12.00	279.18
7	36.920342	-120.816990	266.07	12.00	278.07

Name: 302
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 23.1 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.921625	-120.817390	257.24	12.00	269.24
2	36.921547	-120.820147	264.36	12.00	276.36
3	36.920244	-120.820137	277.18	12.00	289.18
4	36.918640	-120.820083	295.81	12.00	307.81
5	36.918674	-120.818559	287.92	12.00	299.92
6	36.918708	-120.816221	271.03	12.00	283.03
7	36.918708	-120.815502	266.02	12.00	278.02
8	36.919154	-120.815802	265.96	12.00	277.96
9	36.919618	-120.816017	265.26	12.00	277.26
10	36.919815	-120.816328	267.64	12.00	279.64
11	36.920064	-120.816618	267.71	12.00	279.71
12	36.920364	-120.817047	266.04	12.00	278.04
13	36.920664	-120.817744	268.32	12.00	280.32
14	36.920990	-120.818495	267.43	12.00	279.43

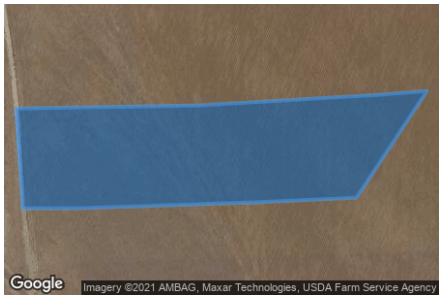
Name: 303
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.2 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.918623	-120.820083	296.25	12.00	308.25
2	36.917559	-120.820083	305.79	12.00	317.79
3	36.917619	-120.818441	293.15	12.00	305.15
4	36.917679	-120.816532	278.17	12.00	290.17
5	36.917722	-120.815073	266.45	12.00	278.45
6	36.918254	-120.815287	267.07	12.00	279.07
7	36.918726	-120.815523	266.13	12.00	278.13
8	36.918683	-120.817186	280.31	12.00	292.31
9	36.918691	-120.818796	288.60	12.00	300.61

Name: 304
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 12.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.917542	-120.820072	305.74	12.00	317.74
2	36.916495	-120.819986	309.64	12.00	321.64
3	36.916512	-120.818098	295.11	12.00	307.11
4	36.916641	-120.815459	275.96	12.00	287.96
5	36.917447	-120.814955	267.80	12.00	279.80
6	36.917722	-120.815062	266.39	12.00	278.39
7	36.917670	-120.816768	280.89	12.00	292.89
8	36.917619	-120.818227	292.18	12.00	304.18

Name: 305
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 8.9 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.916495	-120.820008	309.74	12.00	321.74
2	36.916521	-120.818002	294.31	12.00	306.31
3	36.916615	-120.815995	279.21	12.00	291.21
4	36.916650	-120.815448	275.91	12.00	287.91
5	36.915706	-120.816231	285.26	12.00	297.26
6	36.915663	-120.817401	293.24	12.00	305.24
7	36.915612	-120.819343	313.11	12.00	325.11
8	36.915612	-120.819933	317.65	12.00	329.65

Name: 306
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 5.5 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.915569	-120.819901	318.40	12.00	330.41
2	36.914908	-120.819879	323.28	12.00	335.29
3	36.914934	-120.818130	305.82	12.00	317.82
4	36.914960	-120.816929	295.02	12.00	307.02
5	36.915689	-120.816264	285.00	12.00	297.00
6	36.915646	-120.817862	297.07	12.00	309.07
7	36.915612	-120.818924	307.19	12.00	319.19

Name: 307
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Footprint area: 4.8 acres
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.914917	-120.819879	323.19	12.00	335.19
2	36.913973	-120.818924	317.56	12.00	329.56
3	36.913665	-120.818484	315.14	12.00	327.14
4	36.914282	-120.817712	302.56	12.00	314.56
5	36.914582	-120.817240	297.66	12.00	309.66
6	36.914960	-120.816918	294.96	12.00	306.96
7	36.914943	-120.817916	303.88	12.00	315.88

Route Receptor(s)

Name: Highway 165
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	36.929825	-120.841156	389.84	9.00	398.84
2	36.930831	-120.839764	345.16	9.00	354.16
3	36.931311	-120.839152	331.76	9.00	340.76
4	36.931879	-120.838570	313.43	9.00	322.43
5	36.932249	-120.838334	303.67	9.00	312.67
6	36.932683	-120.838129	292.55	9.00	301.55
7	36.933102	-120.838016	283.04	9.00	292.04
8	36.933551	-120.837962	276.14	9.00	285.14
9	36.935414	-120.837954	266.34	9.00	275.34
10	36.937736	-120.837932	253.93	9.00	262.93
11	36.939812	-120.837911	249.78	9.00	258.78
12	36.941904	-120.837873	241.92	9.00	250.92
13	36.945008	-120.837838	230.33	9.00	239.33
14	36.946799	-120.837838	227.01	9.00	236.01
15	36.948594	-120.837813	207.52	9.00	216.52
16	36.952176	-120.837768	195.16	9.00	204.16
17	36.953786	-120.837762	191.65	9.00	200.65
18	36.955400	-120.837738	187.60	9.00	196.60
19	36.958503	-120.837677	184.65	9.00	193.65
20	36.960861	-120.837691	182.77	9.00	191.77
21	36.963270	-120.837648	180.63	9.00	189.63
22	36.968014	-120.837551	178.62	9.00	187.62
23	36.971867	-120.837524	175.41	9.00	184.41
24	36.973350	-120.837487	172.93	9.00	181.93

Name: I5 Northbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.858918	-120.779646	390.98	9.00	399.98
2	36.861260	-120.781276	387.51	9.00	396.51
3	36.863221	-120.782631	379.39	9.00	388.39
4	36.865259	-120.784039	372.70	9.00	381.70
5	36.867291	-120.785439	370.95	9.00	379.95
6	36.868226	-120.786078	370.80	9.00	379.80
7	36.869165	-120.786731	374.62	9.00	383.62
8	36.870227	-120.787458	372.24	9.00	381.24
9	36.872811	-120.789241	367.41	9.00	376.41
10	36.873987	-120.790051	367.98	9.00	376.98
11	36.876090	-120.791496	372.67	9.00	381.67
12	36.877427	-120.792420	379.00	9.00	388.00
13	36.878413	-120.793104	379.76	9.00	388.77
14	36.879196	-120.793644	383.47	9.00	392.47
15	36.880411	-120.794473	386.63	9.00	395.63
16	36.881831	-120.795455	387.93	9.00	396.93
17	36.882674	-120.796034	389.84	9.00	398.84
18	36.884688	-120.797423	388.03	9.00	397.03
19	36.885889	-120.798255	388.64	9.00	397.64
20	36.887865	-120.799647	384.89	9.00	393.89
21	36.888840	-120.800380	385.22	9.00	394.22
22	36.889802	-120.801152	381.41	9.00	390.42
23	36.891640	-120.802710	376.89	9.00	385.89
24	36.892735	-120.803674	376.35	9.00	385.35
25	36.893599	-120.804416	376.67	9.00	385.67
26	36.894546	-120.805252	376.89	9.00	385.89
27	36.895486	-120.806067	377.65	9.00	386.65
28	36.896430	-120.806891	381.65	9.00	390.65
29	36.897370	-120.807707	382.20	9.00	391.20
30	36.899235	-120.809334	385.47	9.00	394.47
31	36.900185	-120.810164	388.57	9.00	397.57
32	36.900669	-120.810581	387.72	9.00	396.72
33	36.901137	-120.810991	388.60	9.00	397.60
34	36.903198	-120.812792	387.27	9.00	396.27
35	36.905271	-120.814604	383.87	9.00	392.87
36	36.906309	-120.815505	384.00	9.00	393.00
37	36.907344	-120.816403	382.07	9.00	391.07
38	36.908385	-120.817314	379.37	9.00	388.37
39	36.909420	-120.818217	379.13	9.00	388.13
40	36.910429	-120.819096	377.21	9.00	386.21
41	36.911442	-120.819984	376.49	9.00	385.49
42	36.912415	-120.820863	373.69	9.00	382.69
43	36.913366	-120.821782	367.43	9.00	376.43
44	36.914321	-120.822805	365.47	9.00	374.47
45	36.915233	-120.823868	367.60	9.00	376.60
46	36.916132	-120.824979	366.45	9.00	375.45
47	36.917025	-120.826107	374.17	9.00	383.17

Name: I5 Southbound
Route type One-way
View angle: 50.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.948946	-120.863485	304.72	9.00	313.72
2	36.946811	-120.860856	315.79	9.00	324.79
3	36.944920	-120.858560	327.30	9.00	336.30
4	36.942472	-120.855567	339.75	9.00	348.75
5	36.941113	-120.853899	344.65	9.00	353.65
6	36.940264	-120.852869	345.01	9.00	354.01
7	36.938843	-120.851133	351.41	9.00	360.42
8	36.937160	-120.849060	358.46	9.00	367.46
9	36.936530	-120.848312	362.19	9.00	371.19
10	36.935415	-120.846941	361.06	9.00	370.06
11	36.934008	-120.845224	356.77	9.00	365.77
12	36.932384	-120.843245	353.56	9.00	362.56
13	36.930747	-120.841287	349.45	9.00	358.45
14	36.929266	-120.839645	350.49	9.00	359.49
15	36.927801	-120.838082	349.50	9.00	358.50
16	36.926290	-120.836545	356.40	9.00	365.40
17	36.924236	-120.834453	372.80	9.00	381.80
18	36.920766	-120.830923	390.69	9.00	399.69
19	36.918107	-120.828198	421.44	9.00	430.44
20	36.916973	-120.827015	429.80	9.00	438.80
21	36.915885	-120.825837	434.02	9.00	443.02
22	36.912651	-120.822211	415.16	9.00	424.16
23	36.911515	-120.820940	405.80	9.00	414.80
24	36.910370	-120.819700	395.93	9.00	404.93
25	36.909432	-120.818759	386.64	9.00	395.64
26	36.908459	-120.817852	385.85	9.00	394.85
27	36.906051	-120.815746	388.11	9.00	397.11
28	36.903644	-120.813649	391.55	9.00	400.55
29	36.901572	-120.811839	394.02	9.00	403.02
30	36.899500	-120.810034	390.78	9.00	399.78
31	36.897490	-120.808272	386.91	9.00	395.91
32	36.894792	-120.805933	382.56	9.00	391.56

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.938244	-120.850625	370.01	9.00	379.01
OP 2	36.928170	-120.838662	352.48	9.00	361.48
OP 3	36.922035	-120.832274	383.43	9.00	392.43
OP 4	36.912179	-120.820990	374.39	9.00	383.39
OP 5	36.900090	-120.810066	387.37	9.00	396.37
OP 6	36.888686	-120.800176	383.36	9.00	392.36
OP 7	36.877627	-120.792463	377.24	9.00	386.25
OP 8	36.866412	-120.784771	371.56	9.00	380.56
OP 9	36.929949	-120.840997	382.20	9.00	391.20
OP 10	36.931418	-120.838949	327.02	9.00	336.02
OP 11	36.933552	-120.837998	276.27	9.00	285.27
OP 12	36.945961	-120.837832	229.99	9.00	238.99
OP 13	36.962157	-120.837614	181.08	9.00	190.08
OP 14	36.865253	-120.783277	365.51	9.00	374.51
OP 15	36.863811	-120.783985	392.58	9.00	401.59

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
301	SA tracking	SA tracking	0	0	-	
302	SA tracking	SA tracking	0	0	-	
303	SA tracking	SA tracking	0	0	-	
304	SA tracking	SA tracking	0	0	-	
305	SA tracking	SA tracking	0	0	-	
306	SA tracking	SA tracking	0	0	-	
307	SA tracking	SA tracking	0	0	-	

PV & Receptor Analysis Results

Results for each PV array and receptor

301 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

302 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

303 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

304 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

305 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

306 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	0	0

No glare found

307 no glare found

Component	Green glare (min)	Yellow glare (min)
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
Route: Highway 165	0	0
Route: I5 Northbound	0	0
Route: I5 Southbound	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 account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.