

Shadow Flicker Report

Jericho Rise Wind Farm

Towns of Bellmont and Chateaugay, Franklin County, New York

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1.0 PROJECT OVERVIEW

Jericho Rise Wind Farm, LLC (the Project Sponsor), a wholly owned subsidiary of EDP Renewables (or, EDPR), is proposing to construct a wind energy generation facility (and associated necessary Project infrastructure) in the Towns of Belmont and Chateaugay in Franklin County, New York (see Figure 1). The proposed wind-powered generating facility will consist of 37 2.1 megawatt (MW) turbines for a total anticipated nameplate generating capacity of 77.7 MW. However, to allow for flexibility on final site selection, the Project Sponsor is evaluating, and seeks approval for, six alternate turbine sites. The purpose of this report is to provide an assessment of the potential shadow flicker that could be experienced at residences (or residential receptors) located in the vicinity of the proposed Project.

The wind turbine generators that are proposed to be constructed for the Project are the Gamesa G114-2.1 MW wind turbines. Each wind turbine consists of three major mechanical components: the tower, nacelle, and rotor. Assuming use of the Gamesa G114-2.1 turbines or equivalent, the anticipated tower height for the Project, or “hub height” (height from foundation to the center of the rotor), is approximately 93 meters (305 feet). The G-114 has a rotor diameter of 114 meters (374 feet), resulting in a total maximum height of 150 meters (492 feet).

In addition to the turbines, the Project will include construction and operation of one permanent meteorological (met) tower, a system of gravel access roads, electrical collection and communication cables, and a substation. Along with the permanent components of the Project, Project construction will require a temporary construction staging area to store Project components (laydown yard), accommodate construction trailers, and park construction vehicles. The current Project layout is depicted in Figure 2.

The Project is located in northeastern corner of Franklin County, New York approximately 5 miles south of the Canadian border, 1 mile south of the Village of Chateaugay, and 2 miles east of the Village of Burke. Located within the Towns of Belmont and Chateaugay, the Project will occur on approximately 5,895 acres of leased private land (the Project Site) located off of State Highway 374, Malone Chateaugay Road, and Brainardsville Road (Figure 2).

The Project Site is primarily situated within the St. Lawrence-Champlain Lowlands, north of the Adirondack Park boundary. This area is characterized by gently sloping/rolling topography with elevations ranging from approximately 780 feet above mean sea level (amsl) to 1,500 feet amsl. Land cover within the Project Area is dominated by active agriculture and forest land, with widely scattered farms and single family residences generally occurring along the road frontage.

2.0 INTRODUCTION

Shadow flicker refers to the moving shadows that an operating wind turbine casts over an identified receptor at times of the day when the turbine rotor is between the sun and a receptor's position. Shadow flicker is most pronounced in northern latitudes during winter months because of the lower angle of the sun in the winter sky. However, it is possible to encounter shadow flicker anywhere for brief periods before sunset and after sunrise (U.S. Department of the Interior, 2005). During intervals of sunshine, wind turbine generators will cast a shadow on surrounding areas as the rotor blades pass in front of the sun, causing a flickering effect while the rotor is in motion. Shadow flicker does not occur when fog or clouds obscure the sun, or when turbines are not operating.

The distance between a wind turbine and a potential shadow-flicker receptor affects the intensity of the shadows cast by the blades, and therefore the intensity of flickering. Shadows cast close to a turbine will be more intense, distinct, and focused. This is because a greater proportion of the sun's disc is intermittently blocked by the turbine (BERR, 2009). Obstacles such as terrain, vegetation, and/or buildings occurring between receptors and wind turbines may significantly reduce or eliminate shadow-flicker effects. At distances beyond roughly 10 rotor diameters (approximately 1,140 meters based on the Gamesa G114 turbine model used in this case) shadow-flicker effects are generally considered negligible (BERR, 2009; DECC, 2011).

Although shadow flicker has been alleged to cause or contribute to health effects, blade pass frequencies for modern commercial scale wind turbines are very low. According to the Epilepsy Society (2012), approximately five percent of individuals with epilepsy have sensitivity to light. Most people with photosensitive epilepsy are sensitive to flickering around 16-25 Hz (Hertz or Hz = 1 flash per second), although some people may be sensitive to rates as low as 3 Hz and as high as 60 Hz. Modern wind turbines (including the proposed Gamesa G114) typically operate at a frequency of 1 Hz or less, and there is no evidence that wind turbines can trigger seizures (British Epilepsy Association, 2007; Ellenbogen et al., 2012; Parsons Brinckerhoff, 2011; NHMRC, 2010). The primary concern with shadow flicker is the annoyance it can cause for adjacent homeowners. Annoyance can trigger physiological reactions of the autonomic nervous and/or endocrine systems that increase the risk of cardiovascular disorders. However, it is important to note that annoyance is not a disease or physical illness in of itself; rather it is a variable and subjective response to stimuli that can include many other things besides shadow flicker.

The location and duration of shadow flicker can be predicted using computer modeling programs and input data regarding turbine characteristics and weather conditions. A "worst-case" shadow-flicker scenario could be predicted based on the assumptions that there are no clouds or fog, wind conditions allow continuous turbine operation, the turbine rotor is continuously perpendicular to the sun, and the turbine rotor is positioned between the receptor and the sun. However, this "worst-case" scenario is not what would actually occur because turbines do not operate

continuously, are not always aligned perpendicular to the sun, and are not always positioned between the receptor and the sun. In addition, sunlight intensity and duration vary daily and seasonally, and obstacles that block shadows (terrain, vegetation, and buildings) exist in the landscape.

3.0 METHODS

3.1 Shadow Flicker Analysis

This shadow flicker analysis evaluated the potential impact of 43 Gamesa G114 turbines, (37 proposed and six alternate turbines) each with a rotor diameter of 114 meters and a hub height of 93 meters. Prior to conducting the shadow-flicker analysis, the Project Sponsor identified potential receptors in the vicinity of the Project. A study area of roughly 10 rotor diameters is typical for analysis of shadow-flicker effects. In the case of the Gamesa G114 turbine used in this analysis, 10 rotor diameters equals 1,140 meters (3,739 feet). A maximum distance of potential effect of 1,140 meters was used for this analysis to ensure that all potentially impacted structures were assessed.

The shadow flicker analysis for the proposed Project used *WindPRO* 2.8.579 software and associated Shadow module. *WindPRO* is a widely accepted modeling software package developed specifically for the design and evaluation of wind power projects. Input variables and assumptions used for shadow flicker modeling calculations for the proposed Project include:

- Latitude and longitude coordinates of 37 proposed and six alternate wind turbine sites (provided by the Project Sponsor).
- Latitude and longitude coordinates for 364 potential receptors located in the vicinity of the Project (provided by the Project Sponsor).
- USGS 1:24,000 topographic mapping and USGS 10-meter resolution digital elevation model (DEM) data.
- The rotor diameter (110 meters) and hub height (93 meters) for the Gamesa G114.
- Annual wind rose data (provided by the Project Sponsor), which is depicted in Table A1 of Attachment A (to determine the approximate directional frequency of rotor orientation throughout the year).
- To account for the occurrence of cloudy conditions, the average monthly percent of available sunshine for the nearest NOAA weather station in Burlington, Vermont was used. Data was obtained from NOAA's "Comparative Climatic Data for the United States through 2012" (see Table A2 of Attachment A) (<http://www.ncdc.noaa.gov>).
- No allowance was made for wind being below or above generation speeds. Blades are assumed to be moving during all daylight hours when the sun's elevation is more than 3 degrees above the horizon. Shadow flicker

is generally considered imperceptible when the sun is less than 3 degrees above the horizon (due to the scattering effect of the atmosphere on low angle sunlight) (States Committee for Pollution Control, 2002).

- The possible screening effect of trees and buildings adjacent to the receptors was not taken into consideration in the modeling. In addition, the number and/or orientation of windows in residential structures were not considered in the analysis.

Shadow-flicker effects on receptors are expressed in terms of predicted frequency (hours per year). Shadow isolines (i.e., contours indicating total number of hours of shadowing per average year) were calculated based on the data and assumptions outlined above. These isolines define the theoretical number of hours per year that shadow flicker would occur at any given location within a 1,140-meter radius of all proposed and alternate turbines (see Figures 3).

The model calculations include the cumulative sum of shadow hours for all Project turbines. This omni-directional approach reports total shadow flicker results at a receptor regardless of the presence or orientation of windows at that particular residence (i.e., it assumes shadows from all directions can be perceived at a residence, which may or may not be true). A receptor in this “greenhouse” model is defined as a one square meter area located one meter above ground; actual house dimensions are not taken into consideration.

Because the shadow flicker analysis conducted for the proposed Project was based on the conservative assumptions that 1) 43 turbines are operating, when in actuality no more than 37 will be built, 2) the turbines are in continuous operation during daylight hours, and 3) that shadow flicker can be perceived at a receptor structure regardless of the presence or orientation of windows or the screening effects of surrounding trees and buildings, the analysis presented herein is a conservative projection of the shadow-flicker effects at ground level.

3.2 Viewshed Analysis

In addition to the shadow flicker analysis described above, a viewshed map was created using ArcGIS modeling to define areas of potential Project visibility within the study area. The viewshed map identified areas within the study area that could have an unobstructed line of sight from the viewer to any portion of one or more of the proposed or alternate turbines. This map was prepared using 10-meter resolution USGS DEM data, the 2011 USGS National Land Cover Dataset (NLCD), the location and height of all proposed turbines, and ESRI ArcGIS® software with the Spatial Analyst extension. Based on standard visual assessment practice, the mapped locations of forest land within the study area was assigned an assumed height of 40 feet and added to the DEM. Once the viewshed analysis was completed, the areas covered by the forest vegetation layer were designated as “not visible” on the resulting data layer. In most forested areas, views will be well screened by the overhead tree canopy. During the growing season the forest canopy will fully block views of the proposed turbines, and such views will typically be almost completely obscured, or at least

significantly screened by tree trunks and branches, even under “leaf-off” conditions. It is worth noting that forest vegetation within the study area is generally greater than 40 feet in height, and areas of forest vegetation mapped by the NLCD do not include the locations of hedgerows, street trees, yard vegetation, and other vegetation or structures in the landscape that may provide visual screening. Therefore, being within the viewshed provides an indication of potential Project visibility, but does not necessarily equate to actual views of the turbines.

3.3 Field Review

A field review was conducted on July 13, 2015 to identify and document the potential screening elements that currently exist adjacent to residential receptors. The presence of existing screening was specifically evaluated at non-participant receptors that were not excluded by the viewshed analysis and that were predicted to receive over 30 hours of shadow flicker per year based on the results of the shadow flicker analysis. The presence or lack of screening at each receptor location was documented with field notes and photographs. Photographs obtained during the July 13, 2015 field review are included in Figure 4.

3.4 Shadow Flicker Threshold

No consistent national, state, county, or local standards exist for allowable frequency or duration of shadow flicker from wind turbines at the proposed Project site. In general, quantified limits on shadow flicker are uncommon in the United States because studies have not shown it to be a significant issue (USDOE, 2008, 2012; NRC, 2007). However, standards developed by some states and countries provide guidance in this regard. The New Hampshire Office of Energy and Planning (2008) issued a model ordinance for small wind energy systems (<100 kW) that defines significant shadow flicker impacts as more than 30 hours per year on abutting occupied buildings. A model wind ordinance prepared by the North Carolina Wind Working Group in 2008 suggests a limit of 30 hours per year (generally less than 1% of annual daylight hours) at any occupied building on a non-participating landowner’s property (NCWWG, 2008). The Wisconsin Administrative Code (WAC) specifies a limit of 30 hours per year at any non-participating residence or occupied community building (Wisconsin Public Service Commission, 2012). The WAC also requires mitigation for non-participating residences or occupied community buildings experiencing 20 hours or more per year of shadow flicker. The Ohio Power Siting Board uses 30 annual hours of shadow flicker as a threshold of acceptability in reviewing commercial wind power projects (OPSB, 2011a, 2011b, 2012). Additionally, international guidelines from Europe and Australia have suggested 30 hours of shadow flicker per year as the threshold of significant impact, or the point at which shadow flicker is commonly perceived as an annoyance (NRC, 2007; DECC, 2011; DPCD, 2012). Accordingly, a threshold of 30 shadow flicker hours per year was applied to the analysis of the proposed Project to identify any potentially significant impacts on area residences.

4.0 RESULTS

Output from the model includes the following information:

- Calculated shadow-flicker time (days per year, maximum hours per day, and total hours per year when shadow flicker is expected) at each of the 364 receptors located in the vicinity of the Project.
- Tabulated and plotted time of day that structures are predicted to receive shadow flicker.
- Shadow isolines, which are used to create maps showing turbine locations, receptors, and projected shadow-flicker duration (hours per year) without taking into consideration the effect of screening provided by vegetation and structures (see Figure 3).

These data are presented in the tables and calendars included in Attachment B.

A summary of the projected shadow flicker at each of the 364 receptors is presented below:

- 60 (16%) of the receptors are not expected to experience any shadow flicker,
- 1 (<0.5%) of the receptors may be affected 0-1 hour/year,
- 80 (22%) of the receptors may be affected 1-10 hours/year,
- 79 (22%) of the receptors may be affected 10-20 hours/year,
- 56 (15%) of the receptors may be affected 20-30 hours/year,
- 88 (24%) of the receptors may be affected for more than 30 hours/year.

As these results indicate, 76% of the receptors are predicted to receive less than 30 hours of shadow flicker per year, with 39% of the receptors predicted to receive less than 10 hours of shadow flicker per year. At most receptor locations shadow flicker will occur primarily in the early morning or late afternoon and will generally last less than 1 hour per day. The maximum daily duration of shadow flicker predicted at any receptor is 1 hour and 47 minutes (at receptor 176).

Attachment B provides the results of the predicted shadow flicker at each structure calculated to experience more than 30 hours of shadow flicker per year. The times of day and duration of shadow flicker experienced by each structure will vary throughout the calendar year based on the position of the sun in the sky and the direction of prevailing winds. See Attachment B for a table indicating the amount of shadow flicker expected at each receptor and for detailed calendars that illustrate the specific times of year and day that shadow flicker may occur.

5.0 DISCUSSION

5.1 Receptors Predicted to Receive Over 30 Hours of Shadow Flicker

As indicated above, results of the shadow flicker analysis for the Jericho Rise Wind Farm indicate that up to 88 receptors could exceed the 30-hour threshold. However, 56 of these receptors (63%) are located on properties owned by Project participants. The details regarding anticipated shadow flicker at all structures predicted to receive in excess of 30 hours are summarized below in Table 1.

Table 1. Receptors Predicted to Exceed 30 Hours of Shadow Flicker

Receptor ID	Project Status	Predicted Shadow Flicker (days/year)	Predicted Annual Shadow Flicker (hh:mm/year)	Predicted Max Daily Shadow Flicker (hh:mm/day)
5 ^a	Non - Participant	175	31:16:00	0:49
72	Non - Participant	211	43:05:00	0:53
74	Non - Participant	158	37:40:00	1:07
76	Non - Participant	134	30:01:00	1:05
82	Non - Participant	220	42:55:00	0:58
83 ^b	Non - Participant	225	43:27:00	0:58
84	Non - Participant	205	51:54:00	1:05
87	Non - Participant	224	60:47:00	1:08
105	Non - Participant	132	38:06:00	0:51
106	Non - Participant	163	39:11:00	0:56
114	Non - Participant	170	31:30:00	0:46
150	Non - Participant	179	32:20:00	0:44
151 ^c	Non - Participant	236	60:45:00	1:11
154	Non - Participant	201	30:34:00	0:44
155	Non - Participant	232	32:18:00	0:34
156	Non - Participant	201	30:31:00	0:34
174	Non - Participant	257	66:29:00	1:07
176	Non - Participant	238	81:56:00	1:47
179	Non - Participant	266	72:16:00	1:31
181	Non - Participant	161	32:49:00	1:14
186	Non - Participant	274	63:19:00	1:17
187	Non - Participant	212	41:07:00	1:02
188	Non - Participant	198	50:02:00	1:06
189	Non - Participant	213	54:24:00	1:07
190	Non - Participant	239	37:25:00	0:43

Receptor ID	Project Status	Predicted Shadow Flicker (days/year)	Predicted Annual Shadow Flicker (hh:mm/year)	Predicted Max Daily Shadow Flicker (hh:mm/day)
191	Non - Participant	229	47:54:00	0:50
257	Non - Participant	203	32:05:00	0:39
258	Non - Participant	244	36:39:00	0:35
314	Non - Participant	145	34:38:00	1:07
315	Non - Participant	150	32:55:00	1:01
325	Non - Participant	283	79:00:00	1:31
596	Non - Participant	176	36:25:00	1:06
12	Participant	173	37:42:00	0:59
86	Participant	93	33:40:00	1:11
109	Participant	117	31:15:00	1:05
112	Participant	150	30:05:00	1:03
113	Participant	187	52:36:00	1:09
116	Participant	175	54:00:00	1:32
153	Participant	206	31:24:00	0:40
170	Participant	130	59:10:00	1:11
175	Participant	168	35:40:00	1:09
177	Participant	214	39:45:00	1:30
208 - 225, 227 - 250 ^d	Participant	170 - 258	30:53:00 - 64:11:00	00:37 - 01:24
251 ^c	Participant	218	35:13:00	1:04
317	Participant	195	37:50:00	0:56
329	Participant	100	44:38:00	1:06
471	Participant	172	44:28:00	1:05

^a This receptor is a commercial maple products establishment.

^b These receptors are unoccupied.

^c These receptors are only predicted to exceed 30 hours per year of shadow flicker because of the inclusion of the alternate turbine sites (i.e., the shadow flicker model analyzed 43 turbines rather than the 37 that will actually be built). Without the alternate turbines, these receptors will receive less than 30 hours of shadow flicker per year.

^d These receptors consist of various trailers, cabins, and campsites at the Ponderosa Campsite campgrounds.

Although shadow flicker at these receptors exceeds the 30-hour per year threshold, these calculations do not take into account the actual location and orientation of windows, or the screening effects associated with existing, site-specific conditions and obstacles such as trees and/or buildings. Further, this analysis assumes turbine rotors are continuously in motion. Given these assumptions, the predicted shadow-flicker frequency represents a conservative scenario, and almost certainly overstates the actual frequency of shadow flicker that would be experienced at any given receptor location. In addition, many of the modeled shadow flicker hours are expected to be low intensity because they would occur during the early morning or late afternoon hours when the sun is low in the sky. As the sun sinks below the

horizon, more of its light is scattered by the atmosphere, which has the effect of dampening its brightness and therefore reducing its ability to cast dark shadows (EMD, 2013).

To provide a more realistic prediction of where shadow flicker will actually be perceived, model results were compared to the results of the viewshed analysis conducted for the Project, as well as the results of field review. As described in Section 3.0, the viewshed analysis takes into consideration the screening effect of mapped forest vegetation with an assumed average height of 40 feet (EDR, 2015). The viewshed analysis indicates that 16 of the 32 receptors predicted to experience over 30 hours of shadow flicker will not have views of the Project due to screening provided by mapped topography and vegetation (see Table 2 and Figure 4). However, during field review it was determined that 2 out of these 16 receptors (82 and 83) may have potential project visibility. Field verification of the viewshed results determined that out of the 32 non-participant receptors 13 are at least partially screened by buildings and yard trees not taken into consideration in the viewshed analysis (see Table 2 and Figure 4). Therefore, these 13 receptors would experience either no shadow flicker, or in the instances where receptors have partial or limited visibility of the Project, the shadow flicker received by that receptor would be less than predicted by the model.

Table 2. Project Visibility from Non-Participating Receptors Predicted to Exceed 30 Hours of Shadow Flicker

Receptor ID	Project Status	Residential Type	Vegetation Viewshed Analysis Results	Field Reconnaissance	Figure
5	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
72	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
74	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
76	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
82 ¹	Non - Participant	Occupied	Turbine Screened	Partial tree screening	Figure 4 - Sheet 3
83 ¹	Non - Participant	Garage/Shed	Turbine Screened	Partial tree screening	Figure 4 - Sheet 3
84	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
114	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
150	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
151	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
181	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A

Receptor ID	Project Status	Residential Type	Vegetation Viewshed Analysis Results	Field Reconnaissance	Figure
186	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
257	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
258	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
314	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
315	Non - Participant	Occupied	Turbine Screened	Confirmed	N/A
87	Non - Participant	Occupied	Turbine Visible	Partial tree screening	Figure 4 - Sheet 1
105	Non - Participant	Occupied	Turbine Visible	Partial tree screening	Figure 4 - Sheet 4
106	Non - Participant	Occupied	Turbine Visible	No Screening	Figure 4 - Sheet 4
154	Non - Participant	Occupied	Turbine Visible	Partial tree screening	Figure 4 - Sheet 8
155	Non - Participant	Occupied	Turbine Visible	No Screening	Figure 4 - Sheet 8
156	Non - Participant	Occupied	Turbine Visible	Partial tree screening	Figure 4 - Sheet 8
174	Non - Participant	Occupied	Turbine Visible	Partial tree screening	Figure 4 - Sheet 6
176	Non - Participant	Occupied	Turbine Visible	Partial tree screening	Figure 4 - Sheet 6
179	Non - Participant	Occupied	Turbine Visible	Partial tree screening	Figure 4 - Sheet 5
187	Non - Participant	Occupied	Turbine Visible	Partial building and tree screening	Figure 4 - Sheet 2
188	Non - Participant	Occupied	Turbine Visible	Partial tree screening	Figure 4 - Sheet 7
189	Non - Participant	Occupied	Turbine Visible	No Screening	Figure 4 - Sheet 7
190	Non - Participant	Occupied	Turbine Visible	Partial tree screening	Figure 4 - Sheet 7
191	Non - Participant	Occupied	Turbine Visible	No Screening	Figure 4 - Sheet 7
325	Non - Participant	Occupied	Turbine Visible	Partial tree screening	Figure 4 - Sheet 5
596	Non - Participant	Appears Unoccupied	Turbine Visible	No Screening	Figure 4 - Sheet 5

¹ Vegetation Viewshed Analysis based on NLCD dataset predicts screening of turbines, however field review found that screening may not occur in all areas of the property. Thus resulting in no possible screening by vegetation.

As indicated in Table 2 above, receptors 5, 72, 74, 76, 84, 114, 150, 151, 181, 186, 258, and 314 are not anticipated to receive any shadow flicker due to the extent of screening by intervening topography and vegetation. Details regarding shadow flicker effects predicted at the remaining receptors are presented in Table 3. It should be noted that at receptors 82, 83, 87, 105, 154, 156, 174, 176, 179, 187, 188, 190, and 325, visibility of the Project will be at least partially screened by intervening vegetation or structures (Figure 4, Sheets 1-8). Therefore, it is anticipated that these receptors may experience limited shadow flicker impact. The remaining five structures where little or no screening is expected (receptors 106, 155, 189, 191, and 596) could experience shadow flicker impacts similar to those predicted by the analysis. See Figure 4, Sheets 4, 5, 7, and 8. However, the conservative assumptions incorporated into the analysis suggest that these would be worst case estimates.

Table 3. Daily Effect to Non-Participating Receptors Predicted to Exceed 30 Hours of Shadow Flicker

Receptor ID	Project Status	Predicted Shadow Flicker (hh:mm/year)	Turbines Contributing Shadow Flicker	Approximate Times of Day Receptor Potentially Affected by Flicker ¹
82	Non-participant	42:55:00	11, 18, 19	2:00PM - 3:45PM
				5:45PM - 6:45PM
				7:15PM - 8:15PM
83	Non-participant	43:27:00	11, 18, 19	2:00PM - 3:45PM
				5:45PM - 6:45PM
				7:15PM - 8:15PM
87	Non-participant	60:47:00	7, 8, Alt 1	1:45PM - 3:15PM
				5:30PM - 7:45PM
105	Non-participant	38:06:00	13, 34	5:45AM - 7:15AM
				2:PM - 3:00PM
106	Non-participant	39:11:00	13,15, 34	5:30 AM - 8:30 AM
				2:30PM - 3:30PM
154	Non-participant	30:34:00	1, 4, 5, 6	6:00AM - 6:45AM
				3:30PM - 4:45PM
				6:45PM - 7:30PM
				8:00PM - 8:30PM
155	Non-participant	32:18:00	1, 4, 5, 6	5:45AM - 6:30AM
				3:30PM - 4:45PM
				7:00PM - 7:30PM
				7:45PM - 8:30PM
156	Non-participant	30:31:00	1, 4, 5, 6	5:45AM - 6:30AM
				3:30PM - 4:45PM
				6:45PM - 7:30PM

Receptor ID	Project Status	Predicted Shadow Flicker (hh:mm/year)	Turbines Contributing Shadow Flicker	Approximate Times of Day Receptor Potentially Affected by Flicker ¹
				8:00PM - 8:30PM
174	Non-participant	66:29:00	24, 26, 28, 30, Alt 9	6:00AM - 8:30AM
				1:00PM - 2:30PM
				5:00PM - 5:30PM
				5:45PM - 6:45PM
176	Non-participant	81:56:00	17, 23, 24, 28	6:00AM - 9:15AM
				6:45PM - 7:45PM
179	Non-participant	72:16:00	15, 16, 17, 21, 23	5:45AM - 6:15AM
				7:30AM - 9:15AM
				3:00PM - 4:45PM
				6:00PM - 7:00PM
				7:30PM - 8:30PM
187	Non-participant	41:07:00	10, 11, 19, 20, 22	7:00AM - 9:00AM
				4:15PM - 6:15PM
				7:00PM - 7:45PM
189	Non-participant	54:24:00	12, 23, 24, 28	5:30AM - 6:00AM
				2:30PM - 3:30PM
				4:30PM - 6:15PM
				7:15PM - 8:30PM
190	Non-participant	37:25:00	12, 23, 24, 28	5:30AM - 6:00AM
				2:45PM - 4:00PM
				5:30PM - 6:30PM
				7:00PM - 8:00PM
191	Non-participant	47:54:00	12, 23, 24, 28	5:30AM - 5:45AM
				2:30PM - 4:00PM
				4:45PM - 6:30PM
				7:30PM - 8:30PM
325	Non-participant	79:00:00	16, 17, 21, 23	5:30AM - 6:30AM
				7:00AM - 8:45AM
				2:30PM - 4:45PM
				6:15PM - 7:30PM
596	Non-participant	36:25:00	15, 16, 20, 21	6:00AM - 8:30PM
				2:45PM - 3:30PM
				4:00PM - 5:45PM

¹The times of day presented in Table 3 represent the range of times during which each structure could potentially experience shadow flicker throughout the year; however, no structures will experience shadow flicker every day during all those hours. See Attachment B for detailed calendars that illustrate the specific times of year and day that each structure may experience shadow flicker.

5.2 Potential Cumulative Impacts

Because the Jericho Rise Wind Farm is located adjacent to the Noble Chateaugay Windpark, there exists the potential for cumulative shadow flicker impacts at certain receptors (i.e., those occurring within a 10 rotor diameter distance of turbines in both projects). To evaluate the potential for cumulative shadow flicker impacts, a second shadow flicker analysis was run for selected turbines within the adjacent Noble Chateaugay Windpark. This project uses GE 1.5sl wind turbines with a rotor diameter of 77 meters. To determine receptors that would be potentially affected by turbines from both projects, a buffer defining the maximum distance of potential effect was applied to the existing Noble Chateaugay turbines (770 meters) and to the proposed Jericho Rise turbines (1,140 meters). The six receptors located within the areas where these buffers overlap have the potential for cumulative shadow flicker impacts.

The analysis was run using the same software described in Section 3.1, along with latitude and longitude coordinates for six receptors that were located in the area of potential cumulative impact. The remaining input variables, assumptions, and model methodology used are the same as described in Section 3.1. The results of this analysis are presented in Table 4, below, with the “predicted shadow flicker” columns representing shadow flicker from the Jericho Rise Wind Farm only, and the “cumulative predicted” columns representing the combined shadow flicker impacts from both facilities.

Table 4. Daily Effect to Structures with Potential Cumulative Shadow Flicker

Receptor ID	Predicted Shadow Flicker (days/year)	Cumulative Predicted Shadow Flicker (days/year)	Predicted Annual Shadow Flicker (hh:mm/year)	Cumulative Predicted Annual Shadow Flicker (hh:mm/year)	Predicted Max Daily Shadow Flicker (hh:mm/day)	Cumulative Predicted Max Daily Shadow Flicker (hh:mm/day)	Viewshed Analysis Results
610	0	107	0:00	15:30	0:00	0:26	Turbine Screened
609	0	131	0:00	22:54	0:00	0:26	Turbine Screened
608	40	100	4:47	11:48	0:28	0:28	Turbine Visible
81	125	161	25:15:00	29:43:00	0:43	0:43	Turbine Screened
317	130	227	29:00:00	44:34:00	0:56	0:56	Turbine Visible
82	220	252	41:14:00	45:58:00	0:58	0:58	Turbine Visible

As indicated in Table 4, the cumulative shadow flicker analysis results include two receptors (82 and 317) exceeding 30 hours of shadow flicker. Of these, receptor 82 was already predicted to exceed 30 hours from the proposed Jericho Rise Wind Farm, and is unaffected by shadow flicker from the Noble Chateaugay project. Receptor 317 was predicted to receive 29 hours of shadow flicker from the proposed Project, and with addition of the Noble Chateaugay turbines, is predicted to receive a combined total of approximately 45 hours per year. Thus, only one additional receptor is anticipated to exceed the 30 hour threshold when the effect of both projects is taken into consideration. Receptor 317 is located on the property of a participating landowner, and appears to be unoccupied.

6.0 MITIGATION

In summary, *WindPRO* predicted that 88 receptors will receive more than 30 hours/year of shadow flicker from the Project wind turbines. Fifty-six of these receptors are located on properties owned by Project participants, while the remaining 32 receptors are non-participating. Additional evaluation, including viewshed analysis and field review, was conducted for the 32 non-participating receptors predicted to receive more than 30 hours of flicker per year. These investigations revealed that 15 receptors are not anticipated to receive any shadow flicker due to the extent of screening by intervening vegetation not included in the *WindPRO* software, leaving 17 non-participating receptors predicted to receive more than 30 hours per year. Of these, 12 receptors will be at least partially screened by intervening vegetation or structures, and will likely experience shadow flicker less than that predicted by the *WindPRO* model. The remaining five structures where little or no screening is present (receptors 106, 155, 189, 191, and 596) could experience shadow flicker impacts similar to those predicted by the analysis. One of these, receptor 596, appears to be abandoned. In order to avoid the potential for annoyance or other impacts to non-participating landowners, the Applicant will pursue neighbor agreements with the remaining 5 potentially affected property owners.

Many of the modeled shadow flicker hours are expected to be of low intensity, as they will occur during the early morning or late afternoon hours when the sun is low in the sky. When the sun sinks low on the horizon, more of its light is scattered by the atmosphere, which has the effect of dampening its brightness and therefore reducing its ability to cast dark shadows. Where shadow flicker does occur from the Project wind turbines, it is anticipated that it can be readily mitigated by planting of trees to screen the affected windows from the sun, or by the installing blinds or curtains. Closing blinds or curtains on windows that face the turbine(s) during periods of shadow flicker effectively mitigates shadow flicker impacts. For example, the maximum daily shadow flicker received at any receptor in the study is 1:47 hours/day at receptor 176. As shown in the graphical calendar in Attachment B, shadow flicker of this duration would only occur in late April/early May and late July/early August, when turbine 23 east of receptor 176 would create shadow flicker in the early morning (6:15 to 7:30 AM), while turbine 17 west of the receptor would create shadow flicker in the evening (6:45 to 7:45 PM). At other times of year, receptor 176 will receive less shadow flicker or none at all.

7.0 REFERENCES

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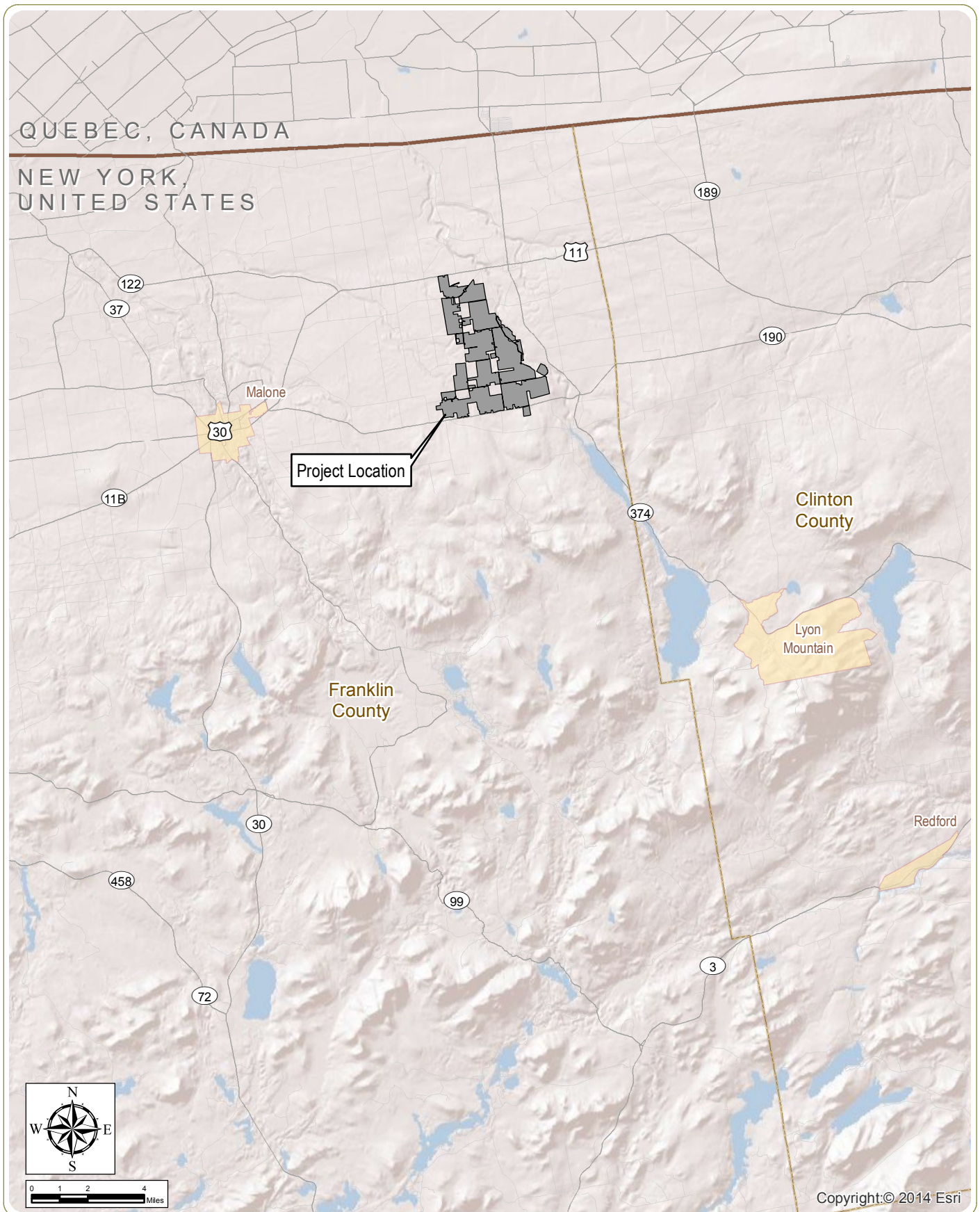
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Figures



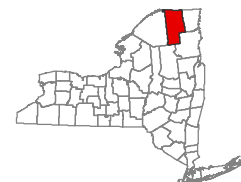
Jericho Rise Wind Farm

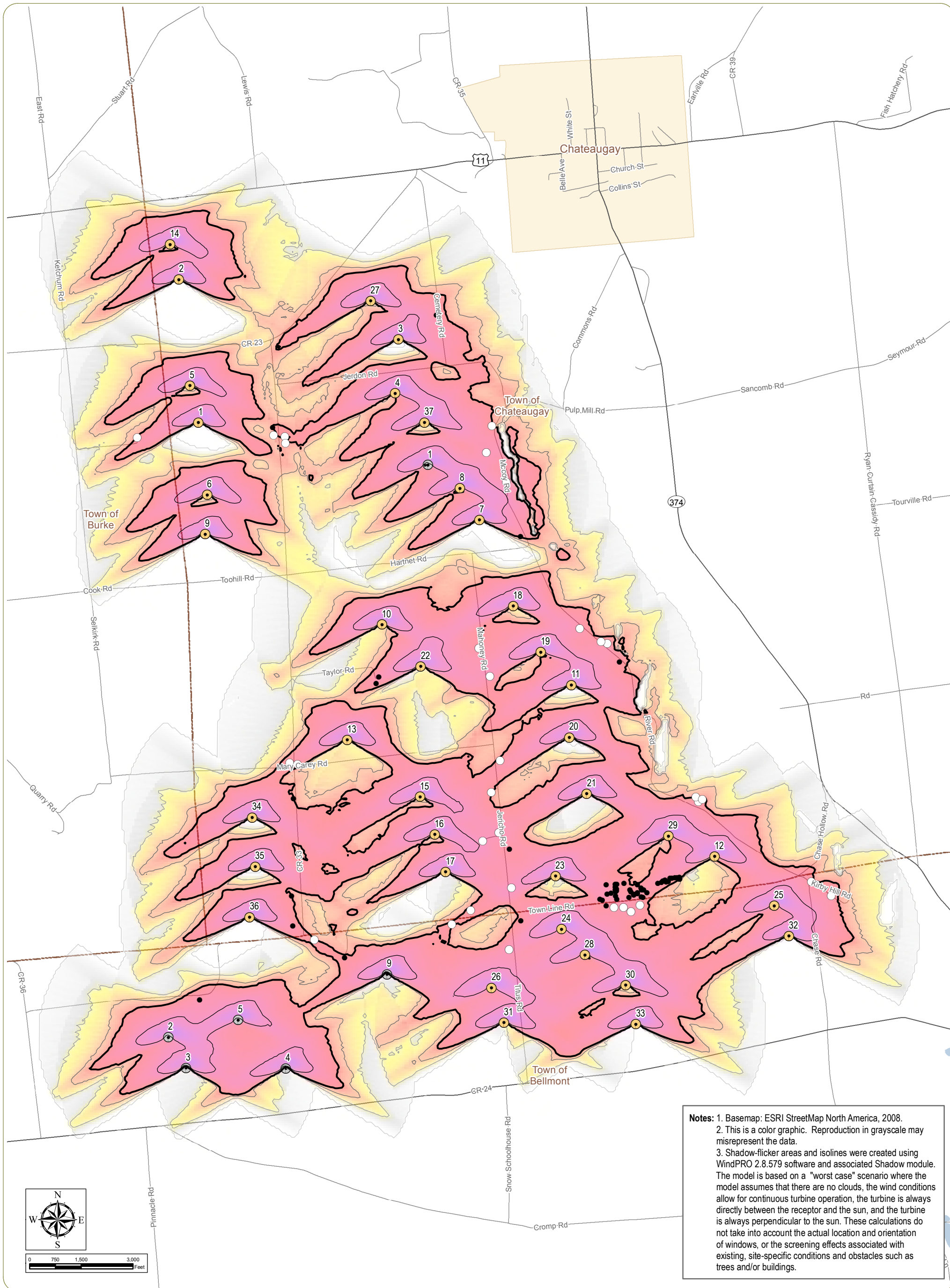
Towns of Chateaugay and Bellmont, Franklin County, New York

Figure 1: Regional Project Location

August 2015

Notes: 1. Basemap: ESRI ArcGIS Online "World Shaded Relief" Map Service and ESRI StreetMap North America, 2008.
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.



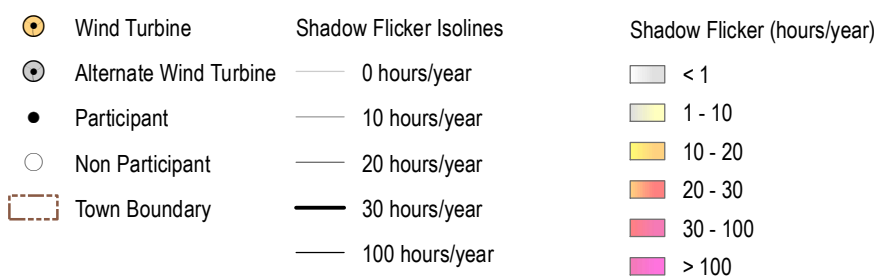


Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

Figure 12: Projected Shadow Flicker

September 2015





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Jericho Rise Wind Farm
Towns of Chateaugay and Belmont - Franklin County, New York

Figure 4: Non-Participant Receptors Predicted to Receive Over 30 Hours of Shadow Flicker per Year - Index

August 2015

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Non Participant Receptors over 30 Hours
- Wind Turbine
- ⦿ Alternate Wind Turbine
- 30 hours/year Shadow Flicker Isoline
- Project Site





Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

Figure 4: Non-Participant Receptors Predicted to Receive Over 30 Hours of Shadow Flicker per Year

August 2015

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- Residence Location
- 30 hours/year Shadow Flicker Isoline
- Potential Viewshed Visibility



Jericho Rise Wind Farm

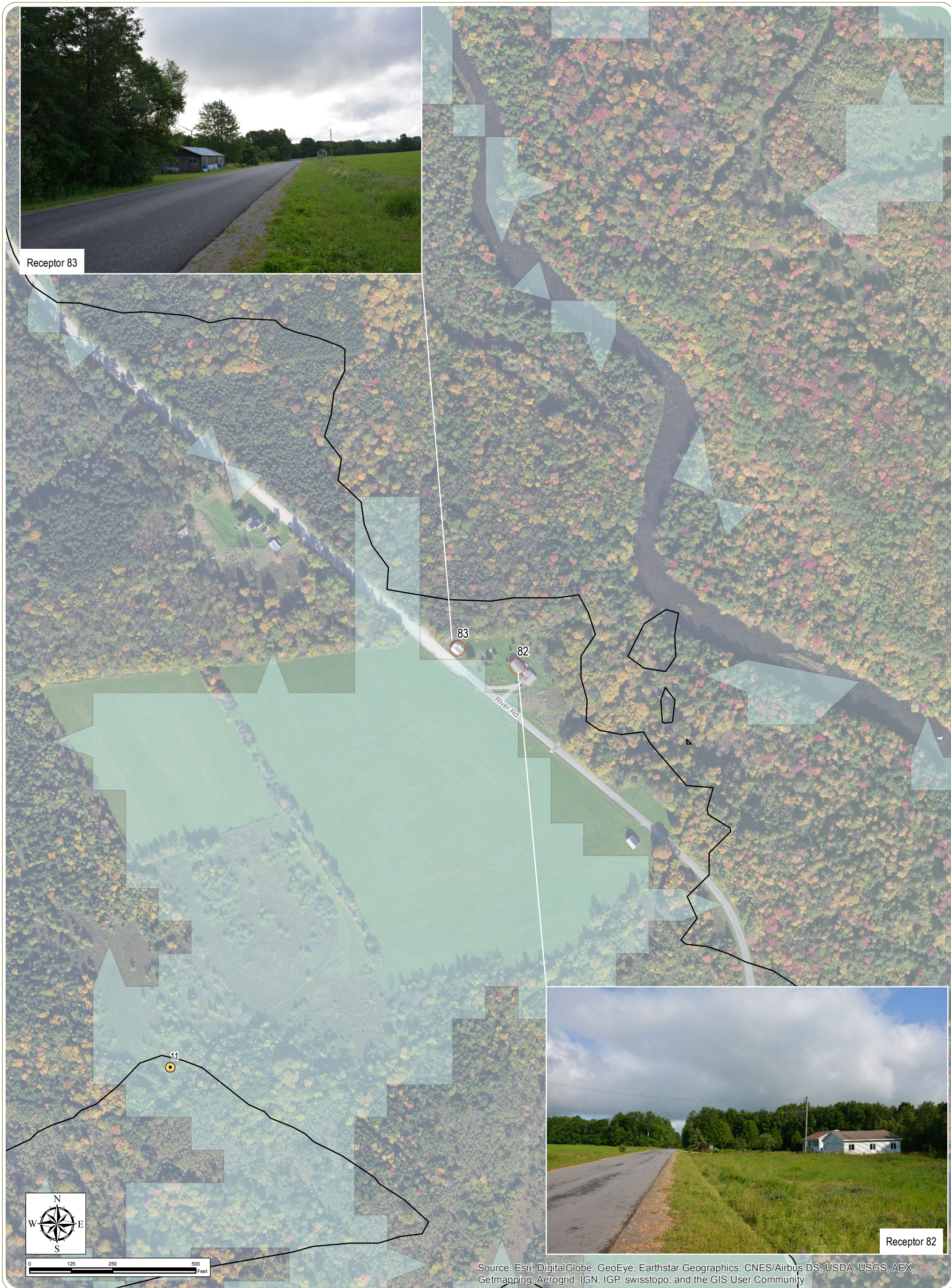
Towns of Chateaugay and Belmont - Franklin County, New York

Figure 4: Non-Participant Receptors Predicted to Receive Over 30 Hours of Shadow Flicker per Year

August 2015

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- ⦿ Alternate Wind Turbine
- Wind Turbine
- Residence Location
- 30 hours/year Shadow Flicker Isoline
- Potential Viewshed Visibility



Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

Figure 4: Non-Participant Receptors Predicted to Receive Over 30 Hours of Shadow Flicker per Year

August 2015

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Alternate Wind Turbine
- Wind Turbine
- Residence Location
- 30 hours/year Shadow Flicker Isoline
- Potential Viewshed Visibility



Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

Figure 4: Non-Participant Receptors Predicted to Receive Over 30 Hours of Shadow Flicker per Year

August 2015

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
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Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

Figure 4: Non-Participant Receptors Predicted to Receive Over 30 Hours of Shadow Flicker per Year

August 2015

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Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

Figure 4: Non-Participant Receptors Predicted to Receive Over 30 Hours of Shadow Flicker per Year

August 2015

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Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

Figure 4: Non-Participant Receptors Predicted to Receive Over 30 Hours of Shadow Flicker per Year

August 2015

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- ⦿ Alternate Wind Turbine
- ⦿ Wind Turbine
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Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

Figure 4: Non-Participant Receptors Predicted to Receive Over 30 Hours of Shadow Flicker per Year

August 2015

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2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Alternate Wind Turbine
- Wind Turbine
- Residence Location
- 30 hours/year Shadow Flicker Isoline
- Potential Viewshed Visibility

Attachment A

Wind Rose and Sunshine Data

Table A1. Wind Rose Data

SECTOR	N	NNE	NE	ENE	E	ESE	SE	SSE
Frequency	0.30	0.48	0.50	0.81	2.51	2.52	3.65	3.15
Hours of Operation	26	42	44	71	220	221	319	276

SECTOR	S	SSW	SW	WSW	W	WNW	NW	NNW
Frequency	6.45	10.79	15.36	22.11	21.38	6.86	2.43	0.69
Hours of Operation	565	945	1,346	1,937	1,873	601	213	60

Source: Wind rose data provided by Jericho Rise Wind Farm, LLC.

Table A2. Sunshine Probability Data¹

Month	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Sunshine Probability ²	0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.6	0.54	0.47	0.31	0.33

¹Source: NOAA Comparative Climatic Data for the United States through 2012 – Burlington, Vermont Weather Station.

²Defined by NOAA as the total time that sunshine reaches the surface of the earth, expressed as the percentage of the maximum amount possible from sunrise to sunset with clear sky conditions.

Attachment B

WindPRO Overview Reports and Calendars

SHADOW - Main Result

Assumptions for shadow calculations

Maximum distance for influence	1,140 m
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S/S_0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
26	42	44	71	220	221	319	276	565	945	1,346	1,937

W	WNW	NW	NNW	Sum
1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values.

A WTG will be visible if it is visible from any part of the receiver window. The

ZVI calculation is based on the following assumptions:

Height contours used: Height Contours: 10mcontour3.wpo (1)

Obstacles not used in calculation

Eye height: 1.5 m

Grid resolution: 10.0 m

WTGs

UTM (north)-NAD27 (US) Zone: 18

East	North	Z	Row data/Description
------	-------	---	----------------------

WTG type

[illegible]

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US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

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SHADOW - Main Result

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UTM (north)-NAD27 (US) Zone: 18**WTG type**

	East	North	Z	Row data/Description	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	RPM [RPM]
			[m]								
29	573,276	4,968,908	394.4	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
30	572,906	4,967,585	444.9	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
31	571,830	4,967,248	413.2	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
32	574,346	4,968,030	438.6	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
33	572,998	4,967,242	447.8	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
34	569,593	4,969,051	370.5	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
35	569,621	4,968,616	377.2	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
36	569,575	4,968,168	380.1	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
37	571,095	4,972,558	330.0	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
Alt 1	571,126	4,972,180	340.0	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
Alt 2	568,861	4,967,100	388.9	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
Alt 3	569,019	4,966,830	390.0	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
Alt 4	569,902	4,966,830	400.3	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
Alt 5	569,478	4,967,257	380.0	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0
Alt 9	570,792	4,967,669	392.8	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT... Yes		GAMESA	G114-2,100	2,100	114.0	93.0	0.0

Shadow receptor-Input**UTM (north)-NAD27 (US) Zone: 18**

No.	East	North	Z	Width	Height	Height a.g.l.	Degrees from south cw	Slope of window	Direction mode
			[m]	[m]	[m]	[m]	[°]	[°]	
2	568,604	4,966,253	402.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
5	568,554	4,972,406	299.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
12	572,728	4,968,290	423.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
13	569,781	4,974,550	270.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
28	568,052	4,966,479	390.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
29	568,308	4,966,288	393.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
30	568,467	4,966,250	400.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
31	568,528	4,966,332	398.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
32	568,619	4,966,335	400.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
33	568,671	4,966,342	401.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
34	568,834	4,966,339	402.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
35	568,881	4,966,308	403.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
36	568,930	4,966,284	404.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
37	569,036	4,966,372	402.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
38	569,102	4,966,379	401.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
39	569,135	4,966,309	402.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
40	569,202	4,966,385	400.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
41	569,252	4,966,457	395.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
42	569,605	4,966,273	413.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
43	569,596	4,966,421	410.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
44	569,782	4,966,446	413.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
45	569,910	4,966,378	418.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
46	570,223	4,966,439	411.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
47	570,541	4,966,657	390.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
48	570,802	4,966,590	401.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
49	570,991	4,966,619	411.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
50	571,068	4,966,503	414.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
51	571,329	4,966,640	429.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
52	571,576	4,966,668	430.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
53	571,913	4,966,490	430.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
54	571,890	4,966,593	430.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
55	571,823	4,966,643	429.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"

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217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Main Result

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UTM (north)-NAD27 (US) Zone: 18

No.	East	North	Z	Width	Height	Height a.g.l.	Degrees from south cw	Slope of window	Direction mode
			[m]	[m]	[m]	[m]	[°]	[°]	
56	571,877	4,966,778	423.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
57	572,128	4,966,695	424.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
58	572,160	4,966,694	424.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
59	572,598	4,966,799	430.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
60	572,667	4,966,807	430.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
61	572,739	4,966,740	430.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
62	572,910	4,966,835	430.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
63	573,083	4,966,880	439.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
64	572,994	4,966,690	437.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
65	573,590	4,966,844	442.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
67	575,022	4,967,374	430.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
68	575,180	4,967,399	422.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
69	574,700	4,967,398	439.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
70	574,629	4,967,503	440.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
71	574,586	4,967,750	451.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
72	574,718	4,968,390	423.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
73	573,738	4,969,227	370.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
74	573,539	4,969,212	371.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
75	573,563	4,969,278	366.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
76	573,514	4,969,257	370.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
77	573,580	4,969,333	360.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
78	573,308	4,969,355	369.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
79	573,226	4,969,334	374.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
80	573,106	4,969,328	380.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
81	573,009	4,969,940	380.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
82	572,724	4,970,611	370.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
83	572,669	4,970,627	370.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
84	572,481	4,970,742	370.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
85	572,063	4,971,477	351.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
86	571,950	4,971,553	353.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
87	571,823	4,972,033	340.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
88	571,417	4,971,357	360.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
89	571,090	4,971,262	360.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
90	570,765	4,971,271	353.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
91	570,382	4,971,226	351.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
92	569,912	4,971,231	340.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
93	569,210	4,971,116	330.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
94	569,179	4,971,169	330.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
95	568,429	4,971,101	327.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
99	568,091	4,971,171	320.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
102	568,833	4,969,352	353.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
103	569,255	4,969,595	352.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
104	569,571	4,969,560	359.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
105	569,921	4,969,537	367.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
106	569,990	4,969,526	370.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
107	569,923	4,969,693	360.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
108	569,921	4,969,838	360.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
109	569,955	4,969,220	374.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
110	570,030	4,968,776	381.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
111	570,113	4,968,357	387.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
112	569,943	4,968,362	383.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
113	569,956	4,968,092	389.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
114	570,148	4,967,969	390.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
115	570,255	4,968,007	390.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"

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(315) 471 0688

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SHADOW - Main Result

...continued from previous page

UTM (north)-NAD27 (US) Zone: 18

No.	East	North	Z	Width	Height	Height a.g.l.	Degrees from south cw	Slope of window	Direction mode
			[m]	[m]	[m]	[m]	[°]	[°]	
116	569,135	4,967,436	374.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
117	568,651	4,967,413	380.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
118	568,570	4,967,474	380.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
119	568,656	4,967,519	380.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
120	568,395	4,967,391	380.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
121	568,438	4,967,405	380.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
122	568,152	4,967,370	380.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
123	567,894	4,967,385	379.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
125	568,143	4,971,346	315.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
126	568,052	4,971,415	312.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
129	567,966	4,972,502	292.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
130	567,939	4,972,701	289.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
131	567,938	4,973,312	264.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
132	568,110	4,973,245	270.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
133	568,669	4,973,207	283.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
134	568,772	4,973,318	283.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
135	568,959	4,973,278	289.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
136	569,137	4,973,260	294.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
137	569,391	4,973,278	303.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
138	569,342	4,973,199	302.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
139	569,502	4,973,167	308.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
140	569,720	4,973,069	313.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
141	569,699	4,972,978	313.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
142	569,721	4,972,923	313.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
143	569,756	4,972,705	314.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
144	570,220	4,972,846	320.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
145	571,226	4,973,006	326.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
146	571,917	4,972,909	310.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
147	571,936	4,973,050	307.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
148	571,863	4,972,705	310.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
149	571,923	4,972,632	302.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
150	571,693	4,972,532	321.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
151	571,642	4,972,294	336.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
152	569,956	4,972,595	317.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
153	569,752	4,972,503	313.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
154	569,759	4,972,435	313.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
155	569,862	4,972,422	315.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
156	569,867	4,972,367	315.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
157	569,771	4,972,252	312.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
158	569,869	4,972,249	315.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
159	569,823	4,971,901	320.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
160	569,892	4,971,884	320.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
161	569,894	4,971,729	325.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
162	569,906	4,971,588	331.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
163	569,977	4,971,548	334.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
164	569,952	4,970,586	350.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
165	569,894	4,970,542	350.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
166	569,896	4,970,368	350.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
167	570,095	4,970,283	353.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
168	570,239	4,970,367	360.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
169	570,573	4,970,412	365.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
170	570,704	4,970,302	370.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
171	569,999	4,970,021	356.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
172	572,059	4,966,760	423.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"

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Project:

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8/28/2015 10:41 AM/2.9.285

SHADOW - Main Result

...continued from previous page

UTM (north)-NAD27 (US) Zone: 18

No.	East	North	Z	Width	Height	Height a.g.l.	Degrees from south cw	Slope of window	Direction mode
			[m]	[m]	[m]	[m]	[°]	[°]	
173	571,991	4,966,828	420.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
174	571,872	4,967,896	412.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
175	571,972	4,968,151	413.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
176	571,890	4,968,442	416.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
177	571,869	4,968,787	420.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
178	572,435	4,968,903	413.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
179	571,776	4,968,929	415.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
180	571,742	4,969,203	405.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
181	571,707	4,969,285	401.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
182	571,766	4,969,599	392.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
183	571,762	4,969,736	388.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
184	571,770	4,969,826	384.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
185	571,565	4,970,016	377.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
186	571,686	4,970,315	370.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
187	571,589	4,970,560	361.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
188	572,796	4,968,272	424.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
189	572,881	4,968,274	424.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
190	573,027	4,968,294	424.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
191	572,948	4,968,235	425.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
192	573,294	4,968,325	422.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
193	573,418	4,968,412	420.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
194	573,389	4,968,406	420.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
195	573,350	4,968,404	420.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
196	573,332	4,968,401	420.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
197	573,312	4,968,398	421.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
198	573,291	4,968,397	421.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
199	573,282	4,968,442	420.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
200	573,281	4,968,453	420.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
201	573,328	4,968,444	420.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
202	573,342	4,968,449	420.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
203	573,370	4,968,451	420.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
204	573,381	4,968,467	420.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
205	573,397	4,968,471	419.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
206	573,235	4,968,396	421.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
207	573,208	4,968,393	421.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
208	573,373	4,968,546	414.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
209	573,374	4,968,528	416.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
210	573,377	4,968,529	415.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
211	573,353	4,968,542	415.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
212	573,333	4,968,540	416.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
213	573,308	4,968,537	416.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
214	573,291	4,968,534	417.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
215	573,276	4,968,507	419.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
216	573,256	4,968,503	420.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
217	573,247	4,968,522	419.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
218	573,228	4,968,511	420.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
219	573,216	4,968,496	420.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
220	573,183	4,968,489	420.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
221	573,004	4,968,397	422.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
222	573,003	4,968,409	422.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
223	573,041	4,968,429	421.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
224	573,035	4,968,448	421.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
225	573,004	4,968,477	420.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
226	572,977	4,968,551	420.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"

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Project:

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US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

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SHADOW - Main Result

...continued from previous page

UTM (north)-NAD27 (US) Zone: 18

No.	East	North	Z	Width	Height	Height a.g.l.	Degrees from south cw	Slope of window	Direction mode
			[m]	[m]	[m]	[m]	[°]	[°]	
227	572,884	4,968,491	420.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
228	572,821	4,968,480	420.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
229	572,807	4,968,455	420.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
230	572,807	4,968,482	420.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
231	572,817	4,968,439	421.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
232	572,807	4,968,429	421.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
233	572,819	4,968,421	421.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
234	572,809	4,968,412	421.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
235	572,809	4,968,377	422.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
236	572,821	4,968,350	422.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
237	572,944	4,968,413	422.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
238	572,936	4,968,430	421.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
239	572,969	4,968,395	422.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
240	572,973	4,968,384	422.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
241	572,930	4,968,366	422.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
242	573,037	4,968,368	423.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
243	573,052	4,968,364	423.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
244	573,088	4,968,405	422.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
245	573,060	4,968,432	421.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
246	572,727	4,968,474	420.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
247	572,737	4,968,393	421.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
248	572,695	4,968,339	422.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
249	572,671	4,968,345	422.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
250	572,770	4,968,400	421.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
251	570,415	4,967,815	390.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
252	570,499	4,968,117	390.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
253	570,603	4,968,138	392.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
254	570,958	4,968,082	400.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
255	571,118	4,968,180	403.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
256	571,280	4,968,109	404.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
257	571,364	4,968,119	406.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
258	571,531	4,968,241	410.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
259	569,282	4,973,271	299.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
260	571,756	4,973,091	307.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
261	571,764	4,973,074	308.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
262	571,768	4,973,056	308.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
263	571,795	4,973,078	307.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
264	571,784	4,973,109	307.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
265	571,738	4,973,113	307.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
266	571,743	4,973,135	307.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
267	571,830	4,973,122	306.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
268	571,826	4,973,137	306.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
269	571,817	4,973,108	306.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
270	571,822	4,973,077	307.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
271	571,824	4,973,060	308.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
272	571,823	4,973,047	308.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
273	571,808	4,973,033	309.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
274	571,827	4,973,033	308.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
275	571,861	4,973,097	306.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
276	571,889	4,973,137	305.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
277	571,904	4,973,141	305.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
278	571,901	4,973,176	304.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
279	571,912	4,973,187	304.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
280	571,924	4,973,194	303.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"

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EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

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SHADOW - Main Result

...continued from previous page

UTM (north)-NAD27 (US) Zone: 18

No.	East	North	Z	Width	Height	Height a.g.l.	Degrees from south cw	Slope of window	Direction mode
			[m]	[m]	[m]	[m]	[°]	[°]	
281	571,933	4,973,201	303.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
282	571,932	4,973,153	304.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
283	571,947	4,973,171	304.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
284	571,958	4,973,180	304.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
285	571,979	4,973,175	303.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
286	571,990	4,973,186	302.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
287	571,998	4,973,198	301.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
288	571,990	4,973,213	301.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
289	571,974	4,973,207	302.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
290	571,844	4,973,259	303.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
292	571,960	4,973,240	302.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
293	571,943	4,973,120	305.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
294	571,967	4,973,133	304.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
295	571,982	4,973,137	303.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
296	571,994	4,973,144	302.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
297	572,009	4,973,154	301.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
298	572,021	4,973,161	301.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
299	572,029	4,973,177	300.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
300	572,033	4,973,155	300.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
301	571,826	4,972,686	311.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
305	568,221	4,966,074	400.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
306	568,283	4,966,280	392.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
307	568,176	4,966,219	395.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
308	568,730	4,966,169	410.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
309	569,201	4,966,503	398.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
310	571,027	4,966,613	413.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
311	571,540	4,966,538	430.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
312	572,055	4,966,819	420.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
313	574,255	4,967,071	430.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
314	574,544	4,968,510	420.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
315	573,575	4,969,236	370.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
316	573,580	4,969,333	360.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
317	572,831	4,970,449	370.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
318	571,927	4,972,726	300.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
319	571,895	4,972,677	300.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
320	567,947	4,973,282	266.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
321	568,021	4,972,575	292.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
322	569,598	4,969,528	360.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
323	568,364	4,967,488	380.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
324	572,106	4,966,797	421.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
325	571,632	4,968,853	412.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
326	571,563	4,970,042	377.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
327	570,139	4,972,138	320.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
328	570,495	4,970,439	362.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
329	570,681	4,970,243	370.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
427	567,739	4,974,418	231.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
428	567,845	4,974,376	232.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
429	567,869	4,974,385	232.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
430	567,894	4,974,384	232.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
431	567,881	4,974,358	233.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
432	567,810	4,974,449	230.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
433	567,812	4,974,434	230.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
434	567,842	4,974,423	230.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
435	567,876	4,974,428	230.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"

To be continued on next page...

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EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

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SHADOW - Main Result

...continued from previous page

UTM (north)-NAD27 (US) Zone: 18

No.	East	North	Z	Width	Height	Height a.g.l.	Degrees from south cw	Slope of window	Direction mode
			[m]	[m]	[m]	[m]	[°]	[°]	
436	567,971	4,974,456	230.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
437	568,167	4,974,396	234.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
438	568,258	4,974,422	236.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
439	568,394	4,974,449	240.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
440	568,470	4,974,510	241.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
441	568,929	4,974,474	252.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
442	569,065	4,974,643	253.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
443	569,161	4,974,656	255.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
444	569,269	4,974,606	259.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
445	569,424	4,974,554	264.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
446	569,497	4,974,544	266.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
447	569,555	4,974,659	263.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
449	570,365	4,974,740	272.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
452	570,992	4,974,662	274.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
457	570,906	4,974,559	279.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
458	570,656	4,974,274	288.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
459	570,790	4,974,148	290.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
460	570,345	4,973,968	292.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
461	570,455	4,973,966	293.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
462	570,183	4,973,766	299.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
463	570,073	4,973,657	306.6	1.0	1.0	1.0	0.0	90.0	"Green house mode"
464	570,042	4,973,624	307.8	1.0	1.0	1.0	0.0	90.0	"Green house mode"
465	570,128	4,973,584	310.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
466	570,000	4,973,553	310.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
467	569,973	4,973,518	310.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
468	569,916	4,973,444	311.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
469	571,191	4,974,113	293.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
470	571,436	4,973,598	304.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
471	571,193	4,973,508	309.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
472	571,324	4,973,498	307.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
530	567,801	4,974,482	230.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
532	567,795	4,974,507	230.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
533	567,793	4,974,547	229.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
539	567,857	4,974,488	230.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
540	567,857	4,974,467	230.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
541	567,850	4,974,454	230.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
542	569,515	4,974,965	256.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
593	569,081	4,973,331	291.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
594	569,719	4,972,972	313.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
595	569,713	4,973,125	313.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
596	571,783	4,969,568	392.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
600	571,744	4,973,599	300.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
601	571,722	4,973,606	300.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
602	571,714	4,973,686	300.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
603	571,701	4,973,563	300.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
604	574,437	4,969,469	376.1	1.0	1.0	1.0	0.0	90.0	"Green house mode"
605	574,667	4,969,311	382.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
606	574,674	4,969,120	374.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
607	574,672	4,969,091	372.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
608	575,075	4,968,765	381.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
609	575,125	4,968,868	394.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
610	575,111	4,968,918	395.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"
611	571,984	4,966,301	433.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
613	571,851	4,966,123	435.3	1.0	1.0	1.0	0.0	90.0	"Green house mode"

To be continued on next page...

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US-SYRACUSE, NY 13202
(315) 471 0688

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Main Result

...continued from previous page

UTM (north)-NAD27 (US) Zone: 18

No.	East	North	Z	Width	Height	Height a.g.l.	Degrees from south cw	Slope of window	Direction mode
			[m]	[m]	[m]	[m]	[°]	[°]	
614	568,765	4,965,940	412.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"
615	569,272	4,966,071	405.2	1.0	1.0	1.0	0.0	90.0	"Green house mode"
616	569,347	4,966,088	405.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
617	569,778	4,966,010	420.4	1.0	1.0	1.0	0.0	90.0	"Green house mode"
618	569,601	4,965,966	420.0	1.0	1.0	1.0	0.0	90.0	"Green house mode"
619	569,926	4,965,989	428.9	1.0	1.0	1.0	0.0	90.0	"Green house mode"
620	569,975	4,965,911	432.5	1.0	1.0	1.0	0.0	90.0	"Green house mode"
621	569,994	4,965,895	433.7	1.0	1.0	1.0	0.0	90.0	"Green house mode"

Calculation Results

Shadow receptor

Shadow, worst case**Shadow, expected values**

No.	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
2	0:00	0	0:00	0:00
5	98:28	175	0:49	31:16
12	99:56	173	0:59	37:42
13	9:14	36	0:24	3:20
28	15:20	50	0:27	7:01
29	0:00	0	0:00	0:00
30	0:00	0	0:00	0:00
31	0:00	0	0:00	0:00
32	0:00	0	0:00	0:00
33	0:00	0	0:00	0:00
34	0:00	0	0:00	0:00
35	0:00	0	0:00	0:00
36	17:13	60	0:23	8:13
37	26:50	69	0:29	12:48
38	21:32	59	0:29	10:17
39	0:00	0	0:00	0:00
40	6:07	29	0:16	2:53
41	22:24	50	0:33	10:42
42	0:00	0	0:00	0:00
43	0:00	0	0:00	0:00
44	28:08	75	0:31	9:46
45	20:54	71	0:24	7:14
46	0:00	0	0:00	0:00
47	42:22	81	0:41	15:39
48	16:26	48	0:29	5:53
49	7:59	33	0:22	2:49
50	0:00	0	0:00	0:00
51	0:00	0	0:00	0:00
52	0:00	0	0:00	0:00
53	0:00	0	0:00	0:00
54	0:00	0	0:00	0:00
55	0:00	0	0:00	0:00
56	0:00	0	0:00	0:00
57	1:25	13	0:08	0:39
58	0:00	0	0:00	0:00
59	10:39	48	0:19	3:32
60	20:41	65	0:26	7:05
61	12:19	54	0:19	4:09

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SHADOW - Main Result

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No.	Shadow, worst case		Shadow, expected values	
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
62	0:00	0	0:00	0:00
63	0:00	0	0:00	0:00
64	0:00	0	0:00	0:00
65	0:00	0	0:00	0:00
67	0:00	0	0:00	0:00
68	0:00	0	0:00	0:00
69	0:00	0	0:00	0:00
70	0:00	0	0:00	0:00
71	0:00	0	0:00	0:00
72	132:07	211	0:53	43:05
73	45:05	74	0:48	15:05
74	126:32	158	1:07	37:40
75	96:49	132	0:59	27:37
76	107:13	134	1:05	30:01
77	75:07	116	0:54	21:15
78	50:08	118	0:35	18:29
79	54:26	131	0:39	17:59
80	99:38	117	1:37	26:22
81	68:03	125	0:43	25:00
82	131:55	220	0:58	42:55
83	130:23	225	0:58	43:27
84	141:21	205	1:05	51:54
85	56:27	77	0:53	19:57
86	92:53	93	1:11	33:40
87	186:24	224	1:08	60:47
88	88:27	88	1:15	19:07
89	27:21	73	0:31	7:35
90	30:08	73	0:31	14:23
91	26:25	49	0:40	4:20
92	53:56	140	0:32	16:46
93	0:00	0	0:00	0:00
94	0:00	0	0:00	0:00
95	9:55	43	0:19	4:43
99	11:00	42	0:23	5:00
102	35:30	92	0:33	8:17
103	0:00	0	0:00	0:00
104	18:19	47	0:31	7:36
105	88:10	132	0:51	38:06
106	100:27	163	0:56	39:11
107	50:57	76	0:52	20:24
108	41:41	64	0:50	13:58
109	82:20	117	1:05	31:15
110	67:03	103	0:59	25:31
111	83:13	155	0:46	28:34
112	95:10	150	1:03	30:05
113	145:28	187	1:09	52:36
114	93:14	170	0:46	31:30
115	77:03	166	0:43	21:11
116	205:11	175	1:32	54:00
117	118:44	138	1:14	21:34
118	80:46	119	1:00	15:09
119	36:19	81	0:39	7:52
120	89:49	164	0:49	19:42
121	95:44	158	0:52	20:11

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SHADOW - Main Result

...continued from previous page

No.	Shadow, worst case		Shadow, expected values	
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
122	38:21	98	0:35	9:35
123	11:29	35	0:26	3:28
125	11:15	38	0:26	4:36
126	8:45	32	0:24	3:25
129	21:12	73	0:25	8:56
130	10:13	34	0:25	4:06
131	25:57	72	0:26	12:23
132	13:19	38	0:27	3:47
133	88:40	110	0:57	16:26
134	22:22	42	0:40	3:38
135	0:00	0	0:00	0:00
136	19:44	36	0:40	4:31
137	57:48	78	0:52	15:53
138	91:32	104	1:00	25:49
139	45:47	77	0:48	15:03
140	61:41	158	0:36	20:22
141	57:56	147	0:38	18:58
142	56:38	116	0:53	19:45
143	55:36	131	0:39	20:46
144	67:53	173	0:42	19:19
145	62:22	81	1:00	23:26
146	63:08	181	0:30	21:39
147	36:09	110	0:28	12:37
148	52:27	133	0:34	18:05
149	56:46	156	0:32	19:29
150	89:18	179	0:44	32:20
151	188:44	236	1:11	60:45
152	70:47	142	0:52	25:31
153	88:29	206	0:40	31:24
154	89:02	201	0:44	30:34
155	90:15	232	0:34	32:18
156	80:17	201	0:34	30:31
157	79:13	165	0:40	28:04
158	78:07	199	0:35	28:45
159	51:15	108	0:41	18:34
160	40:56	95	0:37	15:06
161	43:12	103	0:37	15:59
162	56:54	138	0:35	20:50
163	47:53	147	0:31	16:49
164	31:20	82	0:34	12:24
165	19:59	51	0:31	8:36
166	43:55	111	0:31	17:33
167	12:54	37	0:27	5:03
168	17:05	42	0:32	6:25
169	46:14	69	0:52	17:08
170	131:30	130	1:11	59:10
171	54:24	82	0:52	12:15
172	25:50	65	0:27	12:20
173	20:00	62	0:26	9:24
174	182:47	257	1:07	66:29
175	117:56	168	1:09	35:40
176	235:58	238	1:47	81:56
177	130:25	214	1:30	39:45
178	71:36	105	1:05	19:22

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SHADOW - Main Result

...continued from previous page

No.	Shadow, worst case		Shadow, expected values	
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
179	228:27	266	1:31	72:16
180	78:56	121	1:13	28:35
181	99:17	161	1:14	32:49
182	77:39	136	1:04	29:21
183	77:55	144	0:59	24:01
184	94:55	179	0:58	27:56
185	33:20	88	0:31	12:15
186	177:01	274	1:17	63:19
187	119:37	212	1:02	41:07
188	137:53	198	1:06	50:02
189	153:52	213	1:07	54:24
190	111:23	239	0:43	37:25
191	143:29	229	0:50	47:54
192	64:52	169	0:48	22:01
193	53:30	143	0:36	17:16
194	61:38	174	0:39	20:17
195	63:33	173	0:43	20:57
196	64:45	175	0:44	21:21
197	66:18	177	0:46	21:52
198	68:48	185	0:48	22:39
199	65:14	185	0:30	21:11
200	72:01	211	0:30	24:13
201	69:48	198	0:45	22:24
202	68:30	200	0:44	21:56
203	64:39	185	0:41	20:40
204	65:14	191	0:38	20:35
205	64:25	185	0:37	20:14
206	70:24	196	0:32	23:04
207	74:29	204	0:33	24:22
208	116:50	242	0:59	42:49
209	92:24	228	0:41	31:29
210	91:07	227	0:40	30:53
211	125:14	246	1:02	47:02
212	132:41	251	1:04	50:49
213	128:13	248	1:05	51:39
214	129:40	252	1:04	52:27
215	112:30	247	0:55	44:00
216	116:04	248	0:56	45:46
217	129:07	255	0:59	52:25
218	125:34	253	0:56	50:44
219	120:16	252	0:55	47:59
220	120:48	254	0:51	48:20
221	111:13	236	0:37	42:58
222	108:24	235	0:37	42:25
223	106:54	235	0:39	42:17
224	101:37	232	0:39	40:51
225	81:27	185	0:37	31:54
226	83:22	196	0:38	29:31
227	101:37	188	0:55	35:10
228	121:25	170	1:10	41:13
229	130:33	186	1:15	44:47
230	124:18	171	1:13	42:06
231	125:19	196	1:14	43:55
232	130:06	197	1:16	46:02

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SHADOW - Main Result

...continued from previous page

No.	Shadow, worst case		Shadow, expected values	
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
233	122:50	180	1:15	44:12
234	130:33	191	1:16	47:17
235	141:50	189	1:17	52:53
236	136:15	175	1:15	51:52
237	96:07	212	0:45	37:47
238	89:03	172	0:47	34:15
239	110:36	229	0:39	43:02
240	113:52	230	0:38	43:55
241	121:01	219	0:53	46:30
242	107:47	236	0:40	39:31
243	104:26	233	0:40	37:37
244	110:55	258	0:38	41:35
245	107:22	234	0:41	42:26
246	152:49	193	1:24	52:32
247	181:56	233	1:14	64:11
248	139:53	212	1:01	48:55
249	155:48	234	1:03	52:26
250	164:14	220	1:18	59:10
251	110:18	218	1:04	35:13
252	59:41	128	0:46	18:26
253	32:28	109	0:29	11:46
254	25:05	66	0:30	4:50
255	14:45	40	0:27	2:32
256	91:20	182	1:05	29:33
257	87:52	203	0:39	32:05
258	97:39	244	0:35	36:39
259	44:39	62	0:53	11:39
260	67:00	172	0:33	21:49
261	60:36	156	0:33	20:08
262	58:08	150	0:33	19:32
263	54:21	146	0:32	18:06
264	61:59	166	0:32	20:08
265	69:43	163	0:33	22:29
266	67:13	159	0:33	21:41
267	51:31	144	0:30	16:58
268	55:51	159	0:30	18:08
269	52:33	146	0:31	17:22
270	49:39	135	0:31	16:37
271	48:44	134	0:31	16:28
272	48:32	131	0:32	16:32
273	50:35	136	0:32	17:23
274	47:42	131	0:32	16:28
275	44:41	127	0:30	14:54
276	42:57	125	0:29	14:15
277	41:22	125	0:28	13:45
278	44:19	136	0:28	14:32
279	34:19	104	0:27	10:48
280	33:18	102	0:27	10:29
281	32:41	103	0:26	10:16
282	29:33	89	0:27	9:28
283	28:42	88	0:27	9:08
284	28:12	86	0:26	8:58
285	26:18	84	0:26	8:24
286	25:52	82	0:26	8:15

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SHADOW - Main Result

...continued from previous page

No.	Shadow, worst case		Shadow, expected values	
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
287	16:26	50	0:25	4:44
288	26:42	85	0:25	8:26
289	28:14	90	0:26	8:55
290	47:26	130	0:28	15:21
292	34:38	110	0:26	10:41
293	27:28	83	0:28	8:55
294	26:09	80	0:27	8:30
295	25:02	78	0:26	8:09
296	15:03	45	0:26	4:27
297	14:42	44	0:25	4:21
298	14:18	44	0:25	4:14
299	14:26	46	0:25	4:14
300	13:49	44	0:25	4:07
301	57:57	152	0:35	20:02
305	0:00	0	0:00	0:00
306	0:00	0	0:00	0:00
307	0:00	0	0:00	0:00
308	0:00	0	0:00	0:00
309	44:41	84	0:37	21:15
310	0:00	0	0:00	0:00
311	0:00	0	0:00	0:00
312	30:42	82	0:28	14:35
313	0:00	0	0:00	0:00
314	97:01	145	1:07	34:38
315	110:56	150	1:01	32:55
316	75:07	116	0:54	21:15
317	102:29	195	0:56	37:50
318	43:56	120	0:31	15:16
319	35:57	89	0:32	12:42
320	21:26	62	0:26	10:14
321	23:08	74	0:26	9:27
322	20:45	51	0:32	8:54
323	76:23	134	0:44	15:11
324	28:32	68	0:29	13:36
325	231:48	283	1:31	79:00
326	32:47	87	0:31	11:48
327	66:12	196	0:48	26:22
328	33:37	58	0:45	12:06
329	95:00	100	1:06	44:38
427	9:12	31	0:24	2:49
428	11:13	34	0:26	3:28
429	11:43	34	0:27	3:35
430	12:30	36	0:27	3:49
431	12:07	35	0:27	3:46
432	10:35	33	0:25	3:09
433	10:37	33	0:25	3:11
434	11:11	33	0:26	3:22
435	11:58	35	0:27	3:34
436	14:39	39	0:29	4:13
437	53:10	136	0:37	12:11
438	63:20	129	0:41	13:42
439	67:16	121	0:49	13:19
440	68:59	90	0:53	12:09
441	40:24	52	0:58	9:13

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SHADOW - Main Result

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No.	Shadow, worst case		Shadow, expected values	
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
442	0:00	0	0:00	0:00
443	0:00	0	0:00	0:00
444	33:21	58	0:42	9:04
445	40:39	98	0:38	11:43
446	25:11	65	0:35	7:33
447	28:36	84	0:31	8:07
449	0:00	0	0:00	0:00
452	0:00	0	0:00	0:00
457	0:00	0	0:00	0:00
458	0:00	0	0:00	0:00
459	0:00	0	0:00	0:00
460	92:41	98	1:05	15:50
461	83:10	82	1:13	14:01
462	83:22	141	0:58	22:27
463	57:37	107	0:49	19:09
464	55:01	118	0:46	18:40
465	75:50	126	0:55	27:47
466	72:25	153	0:53	22:39
467	76:16	163	0:52	23:30
468	78:40	163	0:48	26:07
469	46:10	92	0:37	13:05
470	48:06	100	0:41	17:31
471	122:24	172	1:05	44:28
472	71:59	125	0:51	27:05
530	10:26	33	0:24	3:03
532	10:13	32	0:24	2:57
533	10:25	34	0:24	2:57
539	11:33	34	0:26	3:20
540	11:32	34	0:26	3:22
541	11:25	34	0:26	3:22
542	0:00	0	0:00	0:00
593	0:00	0	0:00	0:00
594	59:15	125	0:57	19:50
595	64:25	165	0:36	23:32
596	92:53	176	1:06	36:25
600	22:04	70	0:28	8:12
601	23:07	69	0:29	8:36
602	23:26	73	0:29	8:44
603	24:23	71	0:30	9:02
604	17:38	48	0:27	4:49
605	0:00	0	0:00	0:00
606	11:07	34	0:25	4:09
607	11:10	34	0:26	4:10
608	38:47	100	0:28	11:48
609	14:14	44	0:26	4:20
610	16:01	48	0:26	4:39
611	0:00	0	0:00	0:00
613	0:00	0	0:00	0:00
614	0:00	0	0:00	0:00
615	0:00	0	0:00	0:00
616	0:00	0	0:00	0:00
617	0:00	0	0:00	0:00
618	0:00	0	0:00	0:00
619	0:00	0	0:00	0:00

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SHADOW - Main Result

...continued from previous page

No.	Shadow, worst case		Shadow, expected values	
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
620	0:00	0	0:00	0:00
621	0:00	0	0:00	0:00

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
1	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (87)	286:41	104:11
2	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (88)	108:31	31:30
3	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (89)	276:41	92:15
4	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (90)	313:29	113:32
5	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (92)	468:21	135:59
6	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (91)	246:39	75:54
7	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (93)	225:48	76:14
8	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (94)	165:17	52:11
9	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (95)	169:53	62:48
10	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (96)	190:17	62:52
11	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (97)	257:41	85:22
12	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (98)	186:05	69:46
13	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (99)	260:09	96:27
14	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (100)	317:03	77:41
15	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (101)	192:03	64:49
16	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (102)	201:53	69:49
17	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (103)	218:11	70:45
18	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (104)	172:04	52:32
19	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (105)	249:09	95:49
20	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (106)	246:24	86:21
21	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (107)	180:55	63:30
22	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (108)	311:09	129:27
23	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (109)	570:52	204:42
24	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (110)	484:24	161:40
25	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (111)	192:41	68:15
26	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (112)	110:04	24:47
27	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (113)	472:03	139:38
28	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (114)	258:40	70:09
29	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (115)	235:43	68:00
30	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (116)	24:18	6:08
31	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (117)	20:41	7:02
32	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (118)	120:15	34:32
33	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (119)	48:26	22:59
34	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (120)	142:35	47:07
35	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (121)	116:21	40:02
36	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (122)	295:53	110:12
37	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (123)	260:56	90:49
Alt 1	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (124)	176:36	57:22
Alt 2	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (125)	343:58	73:09
Alt 3	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (126)	101:24	27:35
Alt 4	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (127)	133:57	51:19
Alt 5	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (128)	132:17	38:12
Alt 9	GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (130)	240:32	60:29

Project:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 5 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (623)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	08:03 (6)	07:18	08:24 (6)	06:36	06:39		05:48		06:17 (1)	05:14
	16:26	31	08:34 (6)	17:04	10	08:34 (6)	17:44	19:24		20:00	48
2	07:35	08:04 (6)	07:16	06:34	06:37	05:46		06:16 (1)	05:14	8	06:45 (1)
	16:27	31	08:35 (6)	17:06	17:45	19:25		20:02	48	07:04 (1)	20:36
3	07:35	08:04 (6)	07:15	06:33	06:36	05:45		06:17 (1)	05:13		
	16:28	31	08:35 (6)	17:07	17:46	19:26		20:03	48	07:05 (1)	20:36
4	07:35	08:04 (6)	07:14	06:31	06:34	05:43		06:17 (1)	05:13		
	16:29	32	08:36 (6)	17:09	17:48	19:28		20:04	48	07:05 (1)	20:37
5	07:35	08:04 (6)	07:13	06:29	06:32	05:42		06:16 (1)	05:12		
	16:30	32	08:36 (6)	17:10	17:49	19:29		20:05	48	07:04 (1)	20:38
6	07:35	08:04 (6)	07:11	06:27	06:30	05:41		06:16 (1)	05:12		
	16:31	33	08:37 (6)	17:11	17:50	19:30		20:06	48	07:04 (1)	20:39
7	07:35	08:05 (6)	07:10	06:26	06:28	05:39		06:16 (1)	05:12		
	16:32	33	08:38 (6)	17:13	17:52	19:31		20:08	49	07:05 (1)	20:40
8	07:35	08:05 (6)	07:09	06:26	06:26	05:38		06:16 (1)	05:11		
	16:33	34	08:39 (6)	17:14	18:53	19:33		20:09	48	07:04 (1)	20:40
9	07:34	08:05 (6)	07:08	06:25	06:25	05:37		06:16 (1)	05:11		
	16:34	34	08:39 (6)	17:16	18:54	19:34		20:10	48	07:04 (1)	20:41
10	07:34	08:05 (6)	07:06	06:23	06:23	05:35		06:16 (1)	05:11		
	16:35	35	08:40 (6)	17:17	18:56	19:35		20:11	48	07:04 (1)	20:42
11	07:34	08:05 (6)	07:05	06:21	06:21	05:34		06:17 (1)	05:10		
	16:36	35	08:40 (6)	17:19	18:57	19:36		20:12	46	07:03 (1)	20:42
12	07:33	08:06 (6)	07:03	06:19	06:19	05:33		06:17 (1)	05:10		
	16:38	34	08:40 (6)	17:20	18:58	19:38		20:14	46	07:03 (1)	20:43
13	07:33	08:06 (6)	07:02	06:17	06:17	05:31		06:17 (1)	05:10		
	16:39	34	08:40 (6)	17:21	19:00	19:39		20:15	45	07:02 (1)	20:43
14	07:32	08:06 (6)	07:00	06:16	06:16	05:30		06:17 (1)	05:10		
	16:40	35	08:41 (6)	17:23	19:01	19:40		20:16	45	07:02 (1)	20:44
15	07:32	08:06 (6)	06:59	06:14	06:14	05:29		06:18 (1)	05:10		
	16:41	35	08:41 (6)	17:24	19:02	19:41		20:17	43	07:01 (1)	20:44
16	07:31	08:07 (6)	06:57	06:12	06:12	05:28		06:18 (1)	05:10		
	16:42	35	08:42 (6)	17:26	19:04	19:43		20:18	43	07:01 (1)	20:45
17	07:31	08:07 (6)	06:56	06:10	06:10	05:27		06:19 (1)	05:10		
	16:44	35	08:42 (6)	17:27	19:05	19:44		20:19	41	07:00 (1)	20:45
18	07:30	08:08 (6)	06:54	06:09	06:09	05:26	06:36 (1)	05:26	06:19 (1)	05:10	
	16:45	34	08:42 (6)	17:28	19:06	19:45	15	06:51 (1)	20:21	40	06:59 (1)
19	07:29	08:09 (6)	06:53	06:07	06:07	05:25	06:32 (1)	05:25	06:20 (1)	05:10	
	16:46	34	08:43 (6)	17:30	19:07	19:47	22	06:54 (1)	20:22	39	06:59 (1)
20	07:29	08:09 (6)	06:51	06:05	06:05	05:24	06:30 (1)	05:24	06:20 (1)	05:10	
	16:48	34	08:43 (6)	17:31	19:09	19:48	27	06:57 (1)	20:23	38	06:58 (1)
21	07:28	08:09 (6)	06:50	06:04	06:04	05:23	06:27 (1)	05:23	06:21 (1)	05:10	
	16:49	34	08:43 (6)	17:33	19:10	19:49	31	06:58 (1)	20:24	36	06:57 (1)
22	07:27	08:10 (6)	06:48	06:02	06:02	05:22	06:25 (1)	05:22	06:23 (1)	05:11	
	16:50	33	08:43 (6)	17:34	19:11	19:50	34	06:59 (1)	20:25	34	06:57 (1)
23	07:26	08:10 (6)	06:46	06:00	06:00	05:21	06:24 (1)	05:21	06:24 (1)	05:11	
	16:52	33	08:43 (6)	17:35	19:12	19:52	37	07:01 (1)	20:26	32	06:56 (1)
24	07:26	08:11 (6)	06:45	06:54	06:54	05:20	06:22 (1)	05:20	06:24 (1)	05:11	
	16:53	31	08:42 (6)	17:37	19:14	19:53	39	07:01 (1)	20:27	31	06:55 (1)
25	07:25	08:12 (6)	06:43	06:52	06:52	05:19	06:22 (1)	05:19	06:25 (1)	05:12	
	16:54	30	08:42 (6)	17:38	19:15	19:54	40	07:02 (1)	20:28	29	06:54 (1)
26	07:24	08:13 (6)	06:41	06:50	06:50	05:18	06:20 (1)	05:18	06:26 (1)	05:12	
	16:56	29	08:42 (6)	17:40	19:16	19:55	43	07:03 (1)	20:29	27	06:53 (1)
27	07:23	08:14 (6)	06:40	06:49	06:49	05:17	06:20 (1)	05:17	06:28 (1)	05:12	
	16:57	27	08:41 (6)	17:41	19:18	19:57	44	07:04 (1)	20:30	25	06:53 (1)
28	07:22	08:15 (6)	06:38	06:47	06:47	05:16	06:19 (1)	05:17	06:29 (1)	05:13	
	16:59	25	08:40 (6)	17:42	19:19	19:58	45	07:04 (1)	20:31	22	06:51 (1)
29	07:21	08:17 (6)		06:45	06:45	05:15	06:19 (1)	05:16	06:30 (1)	05:13	
	17:00	22	08:39 (6)		19:20	19:59	45	07:04 (1)	20:32	20	06:50 (1)
30	07:20	08:18 (6)		06:43	06:43	05:14	06:17 (1)	05:16	06:32 (1)	05:14	
	17:01	20	08:38 (6)		19:21	20:00	47	07:04 (1)	20:33	17	06:49 (1)
31	07:19	08:21 (6)		06:41	06:41			05:15	06:33 (1)		
	17:03	16	08:37 (6)		19:23			20:34	14	06:47 (1)	
Potential sun hours	286		291		369	404		459		466	
Total, worst case	971		10			469		1194		8	
Sun reduction	0.41		0.48			0.49		0.56		0.59	
Oper. time red.	1.00		1.00			1.00		1.00		1.00	
Wind dir. red.	0.52		0.52			0.76		0.76		0.76	
Total reduction	0.20		0.24			0.36		0.41		0.43	
Total, real	199		2			168		490		3	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 2

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EDR

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 5 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (623)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42		06:27 (1)	06:18	06:54	06:34			07:14	07:47 (6)
	20:47	20:26	46	07:13 (1)	19:35	18:39	16:46			16:18	35 08:22 (6)
2	05:15	05:43		06:26 (1)	06:19	06:55	06:36			07:15	07:48 (6)
	20:47	20:24	47	07:13 (1)	19:34	18:37	16:45			16:17	35 08:23 (6)
3	05:15	05:44		06:27 (1)	06:21	06:57	06:37			07:16	07:49 (6)
	20:47	20:23	47	07:14 (1)	19:32	18:35	16:44			16:17	34 08:23 (6)
4	05:16	05:45		06:26 (1)	06:22	06:58	06:38			07:17	07:49 (6)
	20:47	20:22	48	07:14 (1)	19:30	18:33	16:42			16:17	34 08:23 (6)
5	05:16	05:46		06:26 (1)	06:23	06:59	06:40			07:18	07:50 (6)
	20:47	20:20	48	07:14 (1)	19:28	18:32	16:41			16:16	33 08:23 (6)
6	05:17	05:47		06:26 (1)	06:24	07:00	06:41			07:19	07:50 (6)
	20:46	20:19	48	07:14 (1)	19:26	18:30	16:40			16:16	33 08:23 (6)
7	05:18	05:49		06:26 (1)	06:25	07:02	06:43			07:20	07:51 (6)
	20:46	20:18	48	07:14 (1)	19:24	18:28	16:38			16:16	32 08:23 (6)
8	05:19	05:50		06:25 (1)	06:27	07:03	06:44			07:21	07:51 (6)
	20:46	20:16	49	07:14 (1)	19:22	18:26	16:37			16:16	32 08:23 (6)
9	05:19	05:51		06:25 (1)	06:28	07:04	06:45			07:22	07:52 (6)
	20:45	20:15	49	07:14 (1)	19:21	18:24	16:36			16:16	32 08:24 (6)
10	05:20	05:52		06:25 (1)	06:29	07:05	06:47		07:54 (6)	07:23	07:53 (6)
	20:45	20:14	48	07:13 (1)	19:19	18:22	16:35	11	08:05 (6)	16:16	31 08:24 (6)
11	05:21	06:46 (1)	05:53	06:25 (1)	06:30	07:07	06:48		07:51 (6)	07:24	07:53 (6)
	20:44	4 06:50 (1)	20:12	48 07:13 (1)	19:17	18:21	16:34	17	08:08 (6)	16:16	31 08:24 (6)
12	05:22	06:43 (1)	05:54	06:26 (1)	06:31	07:08	06:49		07:49 (6)	07:25	07:54 (6)
	20:44	11 06:54 (1)	20:11	47 07:13 (1)	19:15	18:19	16:32	20	08:09 (6)	16:16	30 08:24 (6)
13	05:23	06:41 (1)	05:56	06:26 (1)	06:32	07:09	06:51		07:48 (6)	07:26	07:55 (6)
	20:43	15 06:56 (1)	20:09	47 07:13 (1)	19:13	18:17	16:31	23	08:11 (6)	16:16	30 08:25 (6)
14	05:23	06:40 (1)	05:57	06:26 (1)	06:34	07:10	06:52		07:47 (6)	07:27	07:56 (6)
	20:42	18 06:58 (1)	20:08	46 07:12 (1)	19:11	18:15	16:30	25	08:12 (6)	16:16	29 08:25 (6)
15	05:24	06:39 (1)	05:58	06:27 (1)	06:35	07:12	06:53		07:47 (6)	07:28	07:56 (6)
	20:42	21 07:00 (1)	20:06	44 07:11 (1)	19:09	18:14	16:29	27	08:14 (6)	16:16	29 08:25 (6)
16	05:25	06:38 (1)	05:59	06:27 (1)	06:36	07:13	06:55		07:46 (6)	07:28	07:56 (6)
	20:41	24 07:02 (1)	20:04	43 07:10 (1)	19:07	18:12	16:28	29	08:15 (6)	16:16	29 08:25 (6)
17	05:26	06:36 (1)	06:00	06:27 (1)	06:37	07:14	06:56		07:46 (6)	07:29	07:57 (6)
	20:40	26 07:02 (1)	20:03	42 07:09 (1)	19:05	18:10	16:27	30	08:16 (6)	16:17	29 08:26 (6)
18	05:27	06:35 (1)	06:02	06:28 (1)	06:38	07:16	06:58		07:45 (6)	07:30	07:57 (6)
	20:40	28 07:03 (1)	20:01	40 07:08 (1)	19:04	18:08	16:26	31	08:16 (6)	16:17	29 08:26 (6)
19	05:28	06:34 (1)	06:03	06:28 (1)	06:40	07:17	06:59		07:45 (6)	07:30	07:58 (6)
	20:39	30 07:04 (1)	20:00	39 07:07 (1)	19:02	18:07	16:25	33	08:18 (6)	16:17	29 08:27 (6)
20	05:29	06:33 (1)	06:04	06:30 (1)	06:41	07:18	07:00		07:45 (6)	07:31	07:59 (6)
	20:38	32 07:05 (1)	19:56	36 07:06 (1)	19:00	18:05	16:25	33	08:18 (6)	16:18	28 08:27 (6)
21	05:30	06:33 (1)	06:05	06:31 (1)	06:42	07:20	07:01		07:44 (6)	07:32	07:59 (6)
	20:37	33 07:06 (1)	19:55	33 07:04 (1)	18:58	18:03	16:24	34	08:18 (6)	16:18	28 08:27 (6)
22	05:31	06:32 (1)	06:06	06:32 (1)	06:43	07:21	07:03		07:45 (6)	07:32	08:00 (6)
	20:36	35 07:07 (1)	19:53	31 07:03 (1)	18:56	18:02	16:23	34	08:19 (6)	16:19	28 08:28 (6)
23	05:32	06:31 (1)	06:08	06:34 (1)	06:44	07:22	07:04		07:45 (6)	07:33	08:00 (6)
	20:35	37 07:08 (1)	19:51	26 07:00 (1)	18:54	18:00	16:22	34	08:19 (6)	16:19	28 08:28 (6)
24	05:33	06:31 (1)	06:09	06:36 (1)	06:46	07:23	07:05		07:46 (6)	07:33	08:00 (6)
	20:34	38 07:09 (1)	19:50	21 06:57 (1)	18:52	17:59	16:21	34	08:20 (6)	16:20	29 08:29 (6)
25	05:34	06:30 (1)	06:10	06:39 (1)	06:47	07:25	07:07		07:45 (6)	07:33	08:01 (6)
	20:33	40 07:10 (1)	19:48	15 06:54 (1)	18:50	17:57	16:21	35	08:20 (6)	16:20	29 08:30 (6)
26	05:35	06:30 (1)	06:11		06:48	07:26	07:08		07:45 (6)	07:34	08:01 (6)
	20:32	40 07:10 (1)	19:46		18:48	17:55	16:20	35	08:20 (6)	16:21	29 08:30 (6)
27	05:36	06:29 (1)	06:12		06:49	07:28	07:09		07:45 (6)	07:34	08:01 (6)
	20:31	42 07:11 (1)	19:44		18:46	17:54	16:20	36	08:21 (6)	16:22	29 08:30 (6)
28	05:37	06:28 (1)	06:13		06:50	07:29	07:10		07:47 (6)	07:34	08:02 (6)
	20:30	43 07:11 (1)	19:43		18:45	17:52	16:19	35	08:22 (6)	16:22	29 08:31 (6)
29	05:38	06:28 (1)	06:15		06:52	07:30	07:12		07:47 (6)	07:35	08:03 (6)
	20:29	44 07:12 (1)	19:41		18:43	17:51	16:18	35	08:22 (6)	16:23	29 08:32 (6)
30	05:39	06:27 (1)	06:16		06:53	07:32	07:13		07:47 (6)	07:35	08:03 (6)
	20:28	45 07:12 (1)	19:39		18:41	17:49	16:18	35	08:22 (6)	16:24	30 08:33 (6)
31	05:41	06:27 (1)	06:17			07:33			07:35	08:03 (6)	
	20:27	46 07:13 (1)	19:37			17:48			16:25	30 08:33 (6)	
Potential sun hours	472		436		376	341	288		274		
Total, worst case		652		1036			626			942	
Sun reduction		0.64		0.60			0.31			0.33	
Oper. time red.		1.00		1.00			1.00			1.00	
Wind dir. red.		0.76		0.76			0.52			0.52	
Total reduction		0.47		0.44			0.15			0.16	
Total, real		306		455			97			155	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 3

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 12 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (624)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35		07:17		16:01 (24)	06:36		15:52 (24)	06:39	05:48		05:14
	16:26		17:04	32	16:33 (24)	17:43	52	16:44 (24)	19:24	20:00		20:34
2	07:35		07:16		16:00 (24)	06:34		15:53 (24)	06:37	05:46		05:14
	16:27		17:06	35	16:35 (24)	17:45	49	16:42 (24)	19:25	20:01		20:35
3	07:35		07:15		15:59 (24)	06:32		15:54 (24)	06:35	05:45		05:13
	16:28		17:07	38	16:37 (24)	17:46	47	16:41 (24)	19:26	20:02		20:36
4	07:35		07:14		15:57 (24)	06:31		15:55 (24)	06:34	05:43		05:13
	16:29		17:08	40	16:37 (24)	17:48	45	16:40 (24)	19:27	20:04		20:37
5	07:35		07:12		15:56 (24)	06:29		15:56 (24)	06:32	05:42		05:12
	16:30		17:10	43	16:39 (24)	17:49	42	16:38 (24)	19:29	20:05		20:38
6	07:35		07:11		15:55 (24)	06:27		15:58 (24)	06:30	05:40		05:12
	16:31		17:11	46	16:41 (24)	17:50	39	16:37 (24)	19:30	20:06		20:39
7	07:34		07:10		15:54 (24)	06:25		16:00 (24)	06:28	05:39		05:12
	16:32		17:13	47	16:41 (24)	17:52	35	16:35 (24)	19:31	20:07		20:39
8	07:34		07:09		15:53 (24)	07:24		17:02 (24)	06:26	05:38	05:59 (12)	05:11
	16:33		17:14	50	16:43 (24)	18:53	30	17:32 (24)	19:32	20:09	2	06:01 (12)
9	07:34		07:07		15:53 (24)	07:22		17:04 (24)	06:24	05:36	05:58 (12)	05:11
	16:34		17:16	51	16:44 (24)	18:54	25	17:29 (24)	19:34	20:10	4	06:02 (12)
10	07:34		07:06		15:52 (24)	07:20		17:08 (24)	06:23	05:35	05:57 (12)	05:11
	16:35		17:17	52	16:44 (24)	18:55	17	17:25 (24)	19:35	20:11	6	06:03 (12)
11	07:33		07:04		15:52 (24)	07:18		06:21	05:34	05:56 (12)	05:10	19:40 (23)
	16:36		17:18	53	16:45 (24)	18:57		19:36	20:12	8	06:04 (12)	20:42
12	07:33		07:03		15:51 (24)	07:16		06:19	05:33	05:54 (12)	05:10	19:39 (23)
	16:37		17:20	54	16:45 (24)	18:58		19:37	20:13	10	06:04 (12)	20:43
13	07:33		07:02		15:51 (24)	07:14		06:17	05:31	05:53 (12)	05:10	19:39 (23)
	16:39		17:21	55	16:46 (24)	18:59		19:39	20:15	12	06:05 (12)	20:43
14	07:32		07:00		15:50 (24)	07:13		06:15	05:30	05:52 (12)	05:10	19:39 (23)
	16:40		17:23	56	16:46 (24)	19:01		19:40	20:16	13	06:05 (12)	20:44
15	07:32		06:59		15:50 (24)	07:11		06:14	05:29	05:51 (12)	05:10	19:39 (23)
	16:41		17:24	57	16:47 (24)	19:02		19:41	20:17	14	06:05 (12)	20:44
16	07:31		06:57		15:49 (24)	07:09		06:12	05:28	05:50 (12)	05:10	19:39 (23)
	16:42		17:26	58	16:47 (24)	19:03		19:42	20:18	16	06:06 (12)	20:45
17	07:30		06:56		15:49 (24)	07:07		06:10	05:27	05:49 (12)	05:10	19:39 (23)
	16:44		17:27	59	16:48 (24)	19:05		19:44	20:19	17	06:06 (12)	20:45
18	07:30		06:54		15:49 (24)	07:05		06:09	05:26	05:48 (12)	05:10	19:39 (23)
	16:45		17:28	59	16:48 (24)	19:06		19:45	20:20	18	06:06 (12)	20:45
19	07:29		06:53		15:49 (24)	07:03		06:07	05:25	05:47 (12)	05:10	19:40 (23)
	16:46		17:30	59	16:48 (24)	19:07		19:46	20:21	19	06:06 (12)	20:46
20	07:28		06:51		15:49 (24)	07:01		06:05	05:24	05:46 (12)	05:10	19:40 (23)
	16:48		17:31	59	16:48 (24)	19:08		19:47	20:22	20	06:06 (12)	20:46
21	07:28		06:49		15:49 (24)	07:00		06:03	05:23	05:45 (12)	05:10	19:40 (23)
	16:49		17:33	58	16:47 (24)	19:10		19:49	20:24	20	06:05 (12)	20:46
22	07:27		06:48		15:49 (24)	06:58		06:02	05:22	05:44 (12)	05:11	19:40 (23)
	16:50		17:34	59	16:48 (24)	19:11		19:50	20:25	21	06:05 (12)	20:47
23	07:26		06:46		15:49 (24)	06:56		06:00	05:21	05:44 (12)	05:11	19:40 (23)
	16:52		17:35	58	16:47 (24)	19:12		19:51	20:26	22	06:06 (12)	20:47
24	07:25		06:44		15:49 (24)	06:54		05:59	05:20	05:43 (12)	05:11	19:41 (23)
	16:53		17:37	58	16:47 (24)	19:14		19:53	20:27	22	06:05 (12)	20:47
25	07:24		06:43		15:50 (24)	06:52		05:57	05:19	05:42 (12)	05:11	19:41 (23)
	16:54		17:38	57	16:47 (24)	19:15		19:54	20:28	23	06:05 (12)	20:47
26	07:23		06:41		15:50 (24)	06:50		05:55	05:18	05:41 (12)	05:12	19:41 (23)
	16:56		17:39	56	16:46 (24)	19:16		19:55	20:29	23	06:04 (12)	20:47
27	07:23		06:39		15:51 (24)	06:48		05:54	05:18	05:43 (12)	05:12	19:42 (23)
	16:57		17:41	54	16:45 (24)	19:17		19:56	20:30	21	06:04 (12)	20:47
28	07:22		06:38		15:51 (24)	06:46		05:52	05:17	05:43 (12)	05:13	19:42 (23)
	16:58		17:42	53	16:44 (24)	19:19		19:57	20:31	21	06:04 (12)	20:47
29	07:20	16:10 (24)				06:45		05:51	05:16	05:43 (12)	05:13	19:43 (23)
	17:00	14	16:24 (24)			19:20		19:59	20:32	20	06:03 (12)	20:47
30	07:19	16:06 (24)				06:43		05:49	05:15	05:45 (12)	05:14	19:43 (23)
	17:01	22	16:28 (24)			19:21		20:00	20:33	18	06:03 (12)	20:47
31	07:18	16:03 (24)				06:41			05:15	05:45 (12)		
	17:03	27	16:30 (24)			19:22			20:34	25	19:58 (23)	
Potential sun hours	286		291			369		404	459		466	
Total, worst case		63		1456		381			395		1025	
Sun reduction		0.41		0.48		0.51			0.56		0.59	
Oper. time red.		1.00		1.00		1.00			1.00		1.00	
Wind dir. red.		0.79		0.79		0.79			0.78		0.57	
Total reduction		0.33		0.39		0.41			0.45		0.34	
Total, real		21		561		156			176		349	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 12 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (624)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	19:44 (23)	05:42	06:05 (12)	06:18	06:54		06:34		15:22 (24)	07:14
2	05:15	19:44 (23)	05:43	06:06 (12)	06:19	06:55		06:35		15:22 (24)	07:15
3	05:15	19:45 (23)	05:44	06:07 (12)	06:20	06:56		06:36		15:23 (24)	07:16
4	05:16	19:46 (23)	05:45	06:08 (12)	06:21	06:57		06:37		15:24 (24)	07:17
5	05:16	19:47 (23)	05:46	06:09 (12)	06:22	06:58		06:38		15:25 (24)	07:18
6	05:17	19:48 (23)	05:47	06:10 (12)	06:23	06:59		06:39		15:26 (24)	07:19
7	05:18	19:49 (23)	05:48	06:11 (12)	06:24	07:00		06:40		15:27 (24)	07:20
8	05:18	19:50 (23)	05:49	06:12 (12)	06:25	07:01		06:41		15:28 (24)	07:21
9	05:19	19:51 (23)	05:50	06:13 (12)	06:26	07:02		06:42		15:29 (24)	07:22
10	05:20	19:52 (23)	05:51	06:14 (12)	06:27	07:03		06:43		15:30 (24)	07:23
11	05:21	19:53 (23)	05:52	06:15 (12)	06:28	07:04		06:44		15:31 (24)	07:24
12	05:22	19:54 (23)	05:53	06:16 (12)	06:29	07:05		06:45		15:32 (24)	07:25
13	05:22	19:55 (23)	05:54	06:17 (12)	06:30	07:06		06:46		15:33 (24)	07:26
14	05:23	19:56 (23)	05:55	06:18 (12)	06:31	07:07		06:47		15:34 (24)	07:27
15	05:24	19:57 (23)	05:56	06:19 (12)	06:32	07:08		06:48		15:35 (24)	07:28
16	05:25	19:58 (23)	05:57	06:20 (12)	06:33	07:09		06:49		15:36 (24)	07:29
17	05:26	19:59 (23)	05:58	06:21 (12)	06:34	07:10		06:50		15:37 (24)	07:30
18	05:27	20:00 (23)	05:59	06:22 (12)	06:35	07:11		06:51		15:38 (24)	07:31
19	05:28	20:01 (23)	06:00	06:23 (12)	06:36	07:12		06:52		15:39 (24)	07:32
20	05:29	20:02 (23)	06:01	06:24 (12)	06:37	07:13		06:53		15:40 (24)	07:33
21	05:30	20:03 (23)	06:02	06:25 (12)	06:38	07:14		06:54		15:41 (24)	07:34
22	05:31	20:04 (23)	06:03	06:26 (12)	06:39	07:15		06:55		15:42 (24)	07:35
23	05:32	20:05 (23)	06:04	06:27 (12)	06:40	07:16		06:56		15:43 (24)	07:36
24	05:33	20:06 (23)	06:05	06:28 (12)	06:41	07:17		06:57		15:44 (24)	07:37
25	05:34	20:07 (23)	06:06	06:29 (12)	06:42	07:18		06:58		15:45 (24)	07:38
26	05:35	20:08 (23)	06:07	06:30 (12)	06:43	07:19		06:59		15:46 (24)	07:39
27	05:36	20:09 (23)	06:08	06:31 (12)	06:44	07:20		07:00		15:47 (24)	07:40
28	05:37	20:10 (23)	06:09	06:32 (12)	06:45	07:21		07:01		15:48 (24)	07:41
29	05:38	20:11 (23)	06:10	06:33 (12)	06:46	07:22		07:02		15:49 (24)	07:42
30	05:39	20:12 (23)	06:11	06:34 (12)	06:47	07:23		07:03		15:50 (24)	07:43
31	05:41	20:14 (23)	06:13	06:36 (12)	06:49	07:25		07:05		15:52 (24)	07:45
Potential sun hours	472		436		376	341		288		275	
Total, worst case	719		28		1439	490					
Sun reduction	0.64		0.60		0.47	0.31					
Oper. time red.	1.00		1.00		1.00	1.00					
Wind dir. red.	0.69		0.79		0.79	0.79					
Total reduction	0.45		0.48		0.38	0.25					
Total, real	322		13		543	122					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

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US-SYRACUSE, NY 13202

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 72 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (669)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	14:52 (32)	07:17	15:02 (32)	06:36	06:39	17:44 (25)	05:48	19:25 (12)	05:14	
2	07:35	14:53 (32)	07:16	15:03 (32)	06:34	06:37	17:45 (25)	05:46	19:24 (12)	05:14	
3	07:35	14:53 (32)	07:15	15:04 (32)	06:32	06:35	17:47 (25)	05:45	19:24 (12)	05:13	
4	07:35	14:53 (32)	07:14	15:04 (32)	06:31	06:33	17:48 (25)	05:43	19:24 (12)	05:13	
5	07:35	14:53 (32)	07:12	15:06 (32)	06:29	06:32	17:51 (25)	05:42	19:24 (12)	05:12	
6	07:34	14:54 (32)	07:11	15:07 (32)	06:27	06:30	17:54 (25)	05:40	19:24 (12)	05:12	
7	07:34	14:53 (32)	07:10	15:08 (32)	06:25	06:28	18:00 (25)	05:39	19:24 (12)	05:11	
8	07:34	14:54 (32)	07:08	15:10 (32)	07:23	06:26	17:57 (25)	06:26	19:25 (12)	05:11	
9	07:34	14:54 (32)	07:07	15:12 (32)	07:22	06:24	17:54 (25)	06:24	19:25 (12)	05:11	
10	07:34	14:54 (32)	07:06	15:14 (32)	07:20	06:22	17:52 (25)	06:22	19:26 (12)	05:11	
11	07:33	14:54 (32)	07:04	15:17 (32)	07:18	06:21	17:50 (25)	06:21	19:26 (12)	05:10	
12	07:33	14:55 (32)	07:03	15:20 (32)	07:16	06:19	17:49 (25)	06:19	19:27 (12)	05:10	
13	07:32	14:55 (32)	07:02	15:35 (32)	07:14	06:17	17:48 (25)	06:17	19:29 (12)	05:10	
14	07:32	14:56 (32)	07:00		07:12	06:15	17:46 (25)	06:15	19:31 (12)	05:10	
15	07:31	14:55 (32)	06:59		07:11	06:14	17:45 (25)	06:14	19:35 (12)	05:10	
16	07:31	14:55 (32)	06:57		07:09	06:12	17:44 (25)	06:12	19:37 (12)	05:10	
17	07:30	14:56 (32)	06:56		07:07	06:10	17:43 (25)	06:10			
18	07:30	14:56 (32)	06:54		07:05	06:08	17:42 (25)	06:08			
19	07:29	14:56 (32)	06:52		07:03	06:07	17:42 (25)	06:07			
20	07:28	14:56 (32)	06:51		07:01	06:05	17:42 (25)	06:05			
21	07:28	14:56 (32)	06:49		06:59	06:03	17:42 (25)	06:03			
22	07:27	14:57 (32)	06:48		06:58	06:02	17:41 (25)	06:02			
23	07:26	14:57 (32)	06:46		06:56	06:00	17:41 (25)	06:00			
24	07:25	14:58 (32)	06:44		06:54	05:58	17:41 (25)	05:58			
25	07:24	14:58 (32)	06:43		06:52	05:57	17:41 (25)	05:57			
26	07:23	14:58 (32)	06:41		06:50	05:55	17:41 (25)	05:55			
27	07:22	14:59 (32)	06:39		06:48	05:54	17:41 (25)	05:54			
28	07:21	14:59 (32)	06:38		06:46	05:52	17:41 (25)	05:52			
29	07:20	15:00 (32)			06:45	05:51	17:42 (25)	05:51			
30	07:19	15:00 (32)			06:43	05:49	17:43 (25)	05:49			
31	07:18	15:01 (32)			06:41	05:47	17:44 (25)	05:47			
Potential sun hours	286		291		369		404		459		466
Total, worst case	1554		429		1100		209		232		
Sun reduction	0.41		0.48		0.51		0.49		0.56		
Oper. time red.	1.00		1.00		1.00		1.00		1.00		
Wind dir. red.	0.78		0.78		0.75		0.73		0.62		
Total reduction	0.32		0.38		0.38		0.36		0.35		
Total, real	503		163		423		76		81		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 72 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (669)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 20:47	05:42 20:25	19:38 (12) 19:55 (12)	06:18 19:35	06:54 18:39	17:28 (25) 18:09 (25)
2	05:14 20:47	05:43 20:24	19:36 (12) 19:56 (12)	06:19 19:33	06:55 18:37	17:28 (25) 18:07 (25)
3	05:15 20:47	05:44 20:23	19:35 (12) 19:56 (12)	06:20 19:31	06:56 18:35	17:29 (25) 18:05 (25)
4	05:16 20:46	05:45 20:21	19:35 (12) 19:55 (12)	06:22 19:30	06:57 18:33	17:31 (25) 18:04 (25)
5	05:16 20:46	05:46 20:20	19:35 (12) 19:54 (12)	06:23 19:28	06:59 18:00 (25)	17:33 (25) 18:01 (25)
6	05:17 20:46	05:47 20:19	19:34 (12) 19:53 (12)	06:24 19:26	07:00 18:29	17:35 (25) 17:58 (25)
7	05:18 20:45	05:48 20:17	19:34 (12) 19:52 (12)	06:25 19:24	07:01 18:28	17:39 (25) 17:55 (25)
8	05:18 20:45	05:50 20:16	19:33 (12) 19:50 (12)	06:26 19:22	07:02 18:26	06:44 16:37
9	05:19 20:45	05:51 20:15	19:33 (12) 19:49 (12)	06:27 19:20	07:04 18:24	06:45 16:36
10	05:20 20:44	05:52 20:13	19:33 (12) 19:47 (12)	06:29 19:18	07:05 18:22	06:46 16:34
11	05:21 20:44	05:53 20:12	19:33 (12) 19:46 (12)	06:30 19:17	07:06 18:20	06:48 16:33
12	05:22 20:43	05:54 20:10	19:33 (12) 19:44 (12)	06:31 19:15	07:07 18:19	06:49 16:32
13	05:22 20:43	05:55 20:09	19:33 (12) 19:43 (12)	06:32 19:13	07:09 18:17	06:50 16:31
14	05:23 20:42	05:57 20:07	19:34 (12) 19:42 (12)	06:33 19:11	07:10 18:15	06:52 16:30
15	05:24 20:41	05:58 20:06	19:35 (12) 19:40 (12)	06:35 19:09	07:11 18:13	06:53 16:29
16	05:25 20:41	05:59 20:04	19:36 (12) 19:39 (12)	06:36 19:07	07:13 18:12	06:54 16:28
17	05:26 20:40	06:00 20:02	06:37 19:05	07:14 18:10	06:56 16:27	06:56 15:23 (32)
18	05:27 20:39	06:01 20:01	06:38 19:03	07:15 18:08	06:57 16:26	06:57 15:24 (32)
19	05:28 20:38	06:03 19:58	06:39 19:01	07:17 18:06	06:58 16:25	06:58 15:24 (32)
20	05:29 20:38	06:04 19:56	06:40 18:59	07:18 18:05	07:00 16:24	06:59 15:25 (32)
21	05:30 20:37	06:05 19:54	06:42 18:58	07:19 18:03	07:01 16:23	07:01 15:25 (32)
22	05:31 20:36	06:06 19:53	06:43 18:56	07:20 18:02	07:02 16:23	07:02 15:25 (32)
23	05:32 20:35	06:07 19:51	06:44 18:54	07:22 18:00	07:04 16:22	07:04 15:25 (32)
24	05:33 20:34	06:08 19:49	06:45 18:52	07:23 17:58	07:05 16:21	07:05 15:25 (32)
25	05:34 20:33	06:10 19:47	06:46 18:50	07:24 17:57	07:06 16:21	07:06 15:25 (32)
26	05:35 20:32	06:11 19:46	06:48 18:48	07:26 17:55	07:07 16:20	07:07 15:26 (32)
27	05:36 20:31	06:12 19:44	06:49 18:46	07:27 17:54	07:09 16:19	07:09 15:26 (32)
28	05:37 20:30	06:13 19:42	06:50 18:44	07:29 17:52	07:10 16:19	07:10 15:26 (32)
29	05:38 20:29	19:43 (12) 19:50 (12)	06:14 19:40	06:51 18:42	07:11 18:12 (25)	07:11 16:18
30	05:39 20:28	19:41 (12) 19:52 (12)	06:16 19:39	06:53 18:41	07:31 18:10 (25)	15:49 (32) 16:05 (32)
31	05:40 20:26	19:39 (12) 19:54 (12)	06:17 19:37		07:33 17:48	15:45 (32) 16:08 (32)
Potential sun hours	472	436	376	341	288	275
Total, worst case	33	231	1076	255	1430	1378
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.33
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.62	0.62	0.75	0.75	0.78	0.78
Total reduction	0.40	0.38	0.41	0.36	0.24	0.26
Total, real	13	87	439	91	350	359

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 74 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (671)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	14:20 (29)	07:17	14:26 (29)	06:36	06:39		18:53 (21)	05:48	05:14	
2	07:35	14:20 (29)	07:16	14:27 (29)	06:34	06:37		18:47 (21)	05:46	05:14	
3	07:35	14:20 (29)	07:15	14:27 (29)	06:32	06:35		18:44 (21)	05:45	05:13	
4	07:35	14:20 (29)	07:14	14:27 (29)	06:31	06:33		18:43 (21)	05:43	05:13	
5	07:35	14:21 (29)	07:12	14:28 (29)	06:29	06:32		18:42 (21)	05:42	05:12	
6	07:35	14:21 (29)	07:11	14:29 (29)	06:27	06:30		18:40 (21)	05:40	05:12	
7	07:34	14:21 (29)	07:10	14:30 (29)	06:25	06:28		18:39 (21)	05:39	05:11	
8	07:34	14:21 (29)	07:09	14:31 (29)	06:24	06:26		18:38 (21)	05:38	05:11	
9	07:34	14:21 (29)	07:07	14:32 (29)	06:22	06:24		18:38 (21)	05:36	05:11	
10	07:34	14:22 (29)	07:06	14:33 (29)	06:20	06:23		18:38 (21)	05:35	05:11	
11	07:33	14:21 (29)	07:04	14:34 (29)	06:18	06:21		18:38 (21)	05:34	05:10	
12	07:33	14:22 (29)	07:03	14:35 (29)	06:16	06:19		18:38 (21)	05:33	05:10	
13	07:33	14:22 (29)	07:02	14:37 (29)	06:14	06:17		18:38 (21)	05:31	05:10	
14	07:32	14:22 (29)	07:00	14:38 (29)	06:13	06:15		18:39 (21)	05:30	05:10	
15	07:32	14:22 (29)	06:59	14:41 (29)	06:11	06:14		18:39 (21)	05:29	05:10	
16	07:31	14:22 (29)	06:57	14:43 (29)	06:09	06:12		18:40 (21)	05:28	05:10	
17	07:30	14:22 (29)	06:56	14:46 (29)	06:07	06:10		18:42 (21)	05:27	05:10	
18	07:30	14:22 (29)	06:54	14:48 (29)	06:05	06:08		18:44 (21)	05:26	05:10	
19	07:29	14:22 (29)	06:52	14:52 (29)	06:03	06:07		18:55 (21)	05:25	05:10	
20	07:28	14:22 (29)	06:51	15:10 (29)	06:01	06:05			05:24	05:10	
21	07:28	14:23 (29)	06:49		06:00	06:03			05:23	05:10	
22	07:27	14:23 (29)	06:48		06:58	06:02			05:22	05:11	
23	07:26	14:23 (29)	06:46		06:56	06:00			05:21	05:11	
24	07:25	14:23 (29)	06:44		06:54	05:58			05:20	05:11	
25	07:24	14:24 (29)	06:43		06:52	05:57			05:19	05:11	
26	07:23	14:24 (29)	06:41		06:50	05:55			05:18	05:12	
27	07:22	14:24 (29)	06:39		06:48	05:54			05:18	05:12	
28	07:21	14:25 (29)	06:38		06:46	05:52			05:17	05:13	
29	07:20	14:25 (29)	06:37		06:45	05:51			05:16	05:13	
30	07:19	14:26 (29)	06:36		06:43	05:49			05:15	05:13	
31	07:18	14:26 (29)	06:35		06:41	05:48			05:15	05:13	
Potential sun hours	286	291	369	404	459	466					
Total, worst case	1931	951	369	369							
Sun reduction	0.41	0.48	0.49	0.49							
Oper. time red.	1.00	1.00	1.00	1.00							
Wind dir. red.	0.77	0.77	0.69	0.69							
Total reduction	0.32	0.37	0.34	0.34							
Total, real	612	353	126	126							

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 74 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (671)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14	05:42	06:18	18:37 (21)	06:54	06:34
2	05:15	05:43	06:19	18:36 (21)	06:55	06:35
3	05:15	05:44	06:20	18:36 (21)	06:56	06:37
4	05:16	05:45	06:22	18:35 (21)	06:58	06:38
5	05:16	05:46	06:23	18:36 (21)	06:59	06:39
6	05:17	05:47	06:24	18:36 (21)	07:00	06:41
7	05:18	05:48	06:25	18:37 (21)	07:01	06:42
8	05:18	05:50	06:26	18:37 (21)	07:02	06:44
9	05:19	05:51	06:27	18:38 (21)	07:04	06:45
10	05:20	05:52	06:29	18:40 (21)	07:05	06:46
11	05:21	05:53	06:30	18:43 (21)	07:06	06:48
12	05:22	05:54	06:31	18:48 (21)	07:08	06:49
13	05:22	05:55	06:32	18:48 (21)	07:09	06:50
14	05:23	05:57	06:33	18:48 (21)	07:10	06:52
15	05:24	05:58	06:35	18:48 (21)	07:11	06:53
16	05:25	05:59	06:36	18:48 (21)	07:13	06:55
17	05:26	06:00	06:37	18:48 (21)	07:14	06:56
18	05:27	06:01	06:38	18:48 (21)	07:15	06:57
19	05:28	06:03	06:39	18:48 (21)	07:17	06:59
20	05:29	06:04	06:41	18:48 (21)	07:18	07:00
21	05:30	06:05	06:42	18:48 (21)	07:19	07:01
22	05:31	06:06	06:43	18:48 (21)	07:21	07:02
23	05:32	06:07	06:44	18:48 (21)	07:22	07:04
24	05:33	06:08	06:45	18:48 (21)	07:23	07:05
25	05:34	06:10	06:47	18:48 (21)	07:25	07:06
26	05:35	06:11	06:48	18:48 (21)	07:26	07:08
27	05:36	06:12	06:49	18:48 (21)	07:27	07:09
28	05:37	06:13	06:50	18:48 (21)	07:29	07:10
29	05:38	06:14	06:51	18:48 (21)	07:30	07:11
30	05:39	06:16	06:53	18:48 (21)	07:31	07:12
31	05:40	06:17	06:54	18:48 (21)	07:33	07:14
Potential sun hours	472	436	376	341	288	275
Total, worst case		144	236	363	1902	1696
Sun reduction		0.60	0.54	0.47	0.31	0.33
Oper. time red.		1.00	1.00	1.00	1.00	1.00
Wind dir. red.		0.69	0.69	0.77	0.77	0.77
Total reduction		0.42	0.38	0.36	0.24	0.26
Total, real		60	89	132	456	433

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 76 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (673)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June		
1	07:35		13:52 (29)	07:17		14:13 (29)	06:36		06:39		18:34 (21)	05:48	05:14
	16:26	65	14:57 (29)	17:04	47	15:00 (29)	17:43		19:24	24	18:58 (21)	20:00	20:34
2	07:35		13:53 (29)	07:16		14:15 (29)	06:34		06:37		18:33 (21)	05:46	05:14
	16:27	64	14:57 (29)	17:06	44	14:59 (29)	17:45		19:25	25	18:58 (21)	20:01	20:35
3	07:35		13:53 (29)	07:15		14:17 (29)	06:32		06:35		18:32 (21)	05:45	05:13
	16:28	65	14:58 (29)	17:07	41	14:58 (29)	17:46		19:26	26	18:58 (21)	20:02	20:36
4	07:35		13:54 (29)	07:14		14:18 (29)	06:31		06:33		18:32 (21)	05:43	05:13
	16:29	65	14:59 (29)	17:08	38	14:56 (29)	17:47		19:27	27	18:59 (21)	20:04	20:37
5	07:35		13:54 (29)	07:12		14:20 (29)	06:29		06:32		18:31 (21)	05:42	05:12
	16:30	65	14:59 (29)	17:10	35	14:55 (29)	17:49		19:29	28	18:59 (21)	20:05	20:38
6	07:35		13:55 (29)	07:11		14:23 (29)	06:27		06:30		18:31 (21)	05:40	05:12
	16:31	65	15:00 (29)	17:11	30	14:53 (29)	17:50		19:30	27	18:58 (21)	20:06	20:39
7	07:34		13:56 (29)	07:10		14:26 (29)	06:25		06:28		18:31 (21)	05:39	05:11
	16:32	65	15:01 (29)	17:13	24	14:50 (29)	17:51		19:31	27	18:58 (21)	20:07	20:39
8	07:34		13:55 (29)	07:09		14:30 (29)	07:24		06:26		18:31 (21)	05:38	05:11
	16:33	65	15:00 (29)	17:14	17	14:47 (29)	18:53		19:32	26	18:57 (21)	20:09	20:40
9	07:34		13:56 (29)	07:07		07:22			06:24		18:31 (21)	05:36	05:11
	16:34	65	15:01 (29)	17:16		18:54			19:34	25	18:56 (21)	20:10	20:41
10	07:34		13:57 (29)	07:06		07:20			06:23		18:32 (21)	05:35	05:11
	16:35	65	15:02 (29)	17:17		18:55			19:35	23	18:55 (21)	20:11	20:41
11	07:33		13:57 (29)	07:04		07:18			06:21		18:32 (21)	05:34	05:10
	16:36	65	15:02 (29)	17:18		18:57			19:36	22	18:54 (21)	20:12	20:42
12	07:33		13:58 (29)	07:03		07:16			06:19		18:33 (21)	05:33	05:10
	16:37	64	15:02 (29)	17:20		18:58			19:37	19	18:52 (21)	20:13	20:42
13	07:33		13:58 (29)	07:02		07:14			06:17		18:35 (21)	05:31	05:10
	16:39	64	15:02 (29)	17:21		18:59			19:39	15	18:50 (21)	20:15	20:43
14	07:32		13:59 (29)	07:00		07:13			06:15		18:38 (21)	05:30	05:10
	16:40	64	15:03 (29)	17:23		19:01			19:40	9	18:47 (21)	20:16	20:44
15	07:32		13:59 (29)	06:59		07:11			06:14		05:29		05:10
	16:41	64	15:03 (29)	17:24		19:02			19:41		20:17		20:44
16	07:31		13:59 (29)	06:57		07:09			06:12		05:28		05:10
	16:42	64	15:03 (29)	17:25		19:03			19:42		20:18		20:45
17	07:30		14:00 (29)	06:56		07:07			06:10		05:27		05:10
	16:44	64	15:04 (29)	17:27		19:05			19:44		20:19		20:45
18	07:30		14:01 (29)	06:54		07:05			06:08		05:26		05:10
	16:45	63	15:04 (29)	17:28		19:06			19:45		20:20		20:45
19	07:29		14:01 (29)	06:52		07:03			06:07		05:25		05:10
	16:46	63	15:04 (29)	17:30		19:07			19:46		20:21		20:46
20	07:28		14:01 (29)	06:51		07:01			06:05		05:24		05:10
	16:47	63	15:04 (29)	17:31		19:08			19:47		20:22		20:46
21	07:28		14:03 (29)	06:49		07:00			06:03		05:23		05:10
	16:49	61	15:04 (29)	17:32		19:10			19:49		20:24		20:46
22	07:27		14:03 (29)	06:48		06:58			06:02		05:22		05:11
	16:50	61	15:04 (29)	17:34		19:11			19:50		20:25		20:47
23	07:26		14:04 (29)	06:46		06:56			06:00		05:21		05:11
	16:52	60	15:04 (29)	17:35		19:12			19:51		20:26		20:47
24	07:25		14:05 (29)	06:44		06:54			05:58		05:20		05:11
	16:53	59	15:04 (29)	17:37		19:13			19:52		20:27		20:47
25	07:24		14:05 (29)	06:43		06:52			05:57		05:19		05:11
	16:54	59	15:04 (29)	17:38		19:15			19:54		20:28		20:47
26	07:23		14:06 (29)	06:41		06:50			05:55		05:18		05:12
	16:56	57	15:03 (29)	17:39		19:16			19:55		20:29		20:47
27	07:22		14:07 (29)	06:39		06:48			05:54		05:18		05:12
	16:57	56	15:03 (29)	17:41		19:17			19:56		20:30		20:47
28	07:22		14:08 (29)	06:38		06:46			05:52		05:17		05:13
	16:58	55	15:03 (29)	17:42		19:19	8	18:52 (21)	19:57		20:31		20:47
29	07:20		14:10 (29)	06:37		06:45		18:40 (21)	05:51		05:16		05:13
	17:00	52	15:02 (29)	06:36		19:20	15	18:55 (21)	19:59		20:32		20:47
30	07:19		14:11 (29)	06:36		06:43		18:37 (21)	05:49		05:15		05:13
	17:01	51	15:02 (29)	06:35		19:21	19	18:56 (21)	20:00		20:33		20:47
31	07:18		14:11 (29)	06:34		06:41		18:36 (21)	05:48		05:15		05:12
	17:03	49	15:00 (29)	06:33		19:22	21	18:57 (21)	20:01		20:34		20:47
Potential sun hours	286		291			369		404			459		466
Total, worst case	1907		276			63		323			459		466
Sun reduction	0.41		0.48			0.51		0.49			0.56		0.59
Oper. time red.	1.00		1.00			1.00		1.00			1.00		1.00
Wind dir. red.	0.74		0.74			0.71		0.71			0.71		0.71
Total reduction	0.31		0.36			0.36		0.35			0.35		0.35
Total, real	584		99			23		112			112		112

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 76 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (673)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14	05:42	06:18	18:31 (21)	06:54	06:34
2	20:47	20:25	19:35	18:53 (21)	18:39	16:46
3	05:15	05:43	06:19	18:30 (21)	06:55	06:35
4	20:47	20:24	19:33	18:53 (21)	18:37	16:45
5	05:15	05:44	06:20	18:29 (21)	06:56	06:37
6	20:47	20:23	19:31	18:54 (21)	18:35	16:43
7	05:16	05:45	06:22	18:28 (21)	06:58	06:38
8	20:46	20:21	19:30	18:54 (21)	18:33	16:42
9	05:16	05:46	06:23	18:28 (21)	06:59	06:40
10	20:46	20:20	19:28	18:55 (21)	18:31	16:41
11	05:17	05:47	06:24	18:27 (21)	07:00	06:41
12	20:46	20:19	19:26	18:54 (21)	18:29	16:39
13	05:18	05:48	06:25	18:27 (21)	07:01	06:42
14	20:46	20:17	19:24	18:54 (21)	18:28	16:38
15	05:18	05:50	06:26	18:26 (21)	07:02	06:44
16	20:45	20:16	19:22	18:53 (21)	18:26	16:37
17	05:19	05:51	06:27	18:26 (21)	07:04	06:45
18	20:45	20:15	19:20	18:52 (21)	18:24	16:36
19	05:20	05:52	06:29	18:26 (21)	07:05	06:46
20	20:44	20:13	19:18	18:51 (21)	18:22	16:35
21	05:21	05:53	06:30	18:26 (21)	07:06	06:48
22	20:44	20:12	19:17	18:50 (21)	18:20	16:33
23	05:22	05:54	06:31	18:28 (21)	07:08	06:49
24	20:43	20:10	19:15	18:50 (21)	18:19	16:32
25	05:22	05:55	06:32	18:28 (21)	07:09	06:50
26	20:43	20:09	19:13	18:48 (21)	18:17	16:31
27	05:23	05:57	06:33	18:30 (21)	07:10	06:52
28	20:42	20:07	19:11	18:45 (21)	18:15	16:30
29	05:24	05:58	06:35	18:32 (21)	07:11	06:53
30	20:41	20:06	19:09	18:42 (21)	18:13	16:29
31	05:25	05:59	06:36	07:13	06:55	13:39 (29)
32	20:41	20:04	19:07	18:12	16:28	13:39 (29)
33	05:26	06:00	06:37	07:14	06:56	13:38 (29)
34	20:40	20:03	19:05	18:10	16:27	13:37 (29)
35	05:27	06:01	06:38	07:15	06:57	13:39 (29)
36	20:39	20:01	19:03	18:08	16:26	13:38 (29)
37	05:28	06:03	06:39	07:17	06:59	13:38 (29)
38	20:38	19:58	19:01	18:07	16:25	13:38 (29)
39	05:29	06:04	06:41	07:18	07:00	13:38 (29)
40	20:38	19:56	19:00	18:05	16:24	13:39 (29)
41	05:30	06:05	06:42	07:19	07:01	13:38 (29)
42	20:37	19:54	18:58	18:03	16:24	13:39 (29)
43	05:31	06:06	06:43	07:21	07:02	13:37 (29)
44	20:36	19:53	18:56	18:02	16:23	13:40 (29)
45	05:32	06:07	06:44	07:22	07:04	13:38 (29)
46	20:35	19:51	18:54	18:00	16:22	13:41 (29)
47	05:33	06:08	06:45	07:23	07:05	13:38 (29)
48	20:34	19:49	18:52	17:58	16:21	13:41 (29)
49	05:34	06:10	06:47	07:25	07:06	13:38 (29)
50	20:33	19:48	18:50	17:57	16:21	13:42 (29)
51	05:35	06:11	06:48	07:26	07:08	13:38 (29)
52	20:32	19:46	18:48	17:55	16:20	13:42 (29)
53	05:36	06:12	06:49	07:27	07:09	13:38 (29)
54	20:31	19:44	18:46	17:54	16:19	13:42 (29)
55	05:37	06:13	06:50	07:29	07:10	13:38 (29)
56	20:30	19:42	18:44	17:52	16:19	13:42 (29)
57	05:38	06:14	06:51	07:30	07:11	13:39 (29)
58	20:29	19:41	18:43	17:51	16:18	13:43 (29)
59	05:39	06:16	06:53	07:31	07:12	13:39 (29)
60	20:28	19:39	18:41	17:49	16:18	13:44 (29)
61	05:40	06:17	06:54	07:33	07:14	13:35 (29)
62	20:26	19:37	18:39	17:48	16:17	13:45 (29)
Potential sun hours	472	436	376	341	288	275
Total, worst case		45	346		1476	1997
Sun reduction		0.60	0.54		0.31	0.33
Oper. time red.		1.00	1.00		1.00	1.00
Wind dir. red.		0.71	0.71		0.74	0.74
Total reduction		0.42	0.38		0.23	0.25
Total, real		19	132		342	492

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 82 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (679)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	14:29 (11)	07:17	14:58 (11)	06:36	06:39	17:59 (19)	05:48	05:14	19:30 (18)	
2	07:35	14:29 (11)	07:16	15:02 (11)	06:34	06:37	18:00 (19)	05:46	05:14	19:31 (18)	
3	07:35	14:29 (11)	07:15	15:16 (11)	06:32	06:35	18:01 (19)	05:45	05:13	19:32 (18)	
4	07:35	14:29 (11)	07:14		06:31	06:33	18:03 (19)	05:43	19:34 (18)	05:13	19:32 (18)
5	07:35	14:30 (11)	07:13		06:29	06:32	18:05 (19)	05:42	19:32 (18)	05:12	19:34 (18)
6	07:35	14:31 (11)	07:11		06:27	06:30	18:09 (19)	05:40	19:30 (18)	05:12	19:35 (18)
7	07:34	14:32 (11)	07:10		06:25	06:28	18:20 (19)	05:39	19:28 (18)	05:11	19:49 (18)
8	07:34	14:31 (11)	07:09		07:24	06:26		05:38	19:27 (18)	05:11	19:48 (18)
9	07:34	14:32 (11)	07:07		07:22	06:24		05:36	19:27 (18)	05:11	19:38 (18)
10	07:34	14:33 (11)	07:06		07:20	18:15 (19)	06:23	05:35	19:26 (18)	05:11	19:41 (18)
11	07:33	14:33 (11)	07:05	13	18:28 (19)	18:11 (19)	06:21	20:11	19:47 (18)	20:41	19:45 (18)
12	07:33	14:34 (11)	07:03	20	18:31 (19)	18:09 (19)	06:19	20:12	19:48 (18)	20:42	
13	07:33	14:34 (11)	07:02	25	18:34 (19)	18:07 (19)	06:17	20:13	19:49 (18)	20:43	
14	07:32	14:36 (11)	07:00	29	18:36 (19)	18:05 (19)	06:15	20:15	19:50 (18)	20:43	
15	07:32	14:36 (11)	06:59	32	18:37 (19)	18:03 (19)	06:14	20:16	19:51 (18)	20:44	
16	07:31	14:36 (11)	06:57	35	18:38 (19)	18:01 (19)	06:12	20:17	19:52 (18)	20:44	
17	07:31	14:38 (11)	06:56	38	18:39 (19)	18:00 (19)	06:10	20:18	19:53 (18)	20:45	
18	07:30	14:38 (11)	06:54	39	18:39 (19)	17:59 (19)	06:08	20:19	19:54 (18)	20:45	
19	07:29	14:39 (11)	06:53	41	18:40 (19)	17:59 (19)	06:07	20:20	19:55 (18)	20:45	
20	07:29	14:39 (11)	06:51	42	18:41 (19)	17:58 (19)	06:05	20:21	19:55 (18)	20:46	
21	07:28	14:41 (11)	06:49	43	18:41 (19)	17:57 (19)	06:03	20:23	19:55 (18)	20:46	
22	07:27	14:42 (11)	06:48	44	18:41 (19)	17:57 (19)	06:02	20:24	19:54 (18)	20:46	
23	07:26	14:43 (11)	06:46	44	18:41 (19)	17:56 (19)	06:00	20:25	19:54 (18)	20:47	
24	07:25	14:44 (11)	06:44	44	18:40 (19)	17:56 (19)	05:58	20:26	19:55 (18)	20:47	
25	07:24	14:45 (11)	06:43	43	18:39 (19)	17:56 (19)	05:57	20:27	19:54 (18)	20:47	
26	07:24	14:46 (11)	06:41	43	18:39 (19)	17:56 (19)	05:55	20:28	19:54 (18)	20:47	
27	07:23	14:48 (11)	06:39	42	18:38 (19)	17:57 (19)	05:52	20:29	19:53 (18)	20:47	
28	07:22	14:49 (11)	06:38	41	18:38 (19)	17:57 (19)	05:51	20:30	19:54 (18)	20:47	
29	07:21	14:51 (11)		40	18:37 (19)	17:57 (19)	05:49	20:31	19:53 (18)	20:47	
30	07:19	14:53 (11)		39	18:36 (19)	17:56 (19)	05:48	20:32	19:52 (18)	20:47	
31	07:18	14:55 (11)		36	18:34 (19)	17:55 (19)	05:47	20:33	19:52 (18)	20:47	
Potential sun hours	286	291	369	404	459	466	143				
Total, worst case	1554	35	817	147	676	143					
Sun reduction	0.41	0.48	0.51	0.49	0.56	0.59					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.77	0.77	0.74	0.74	0.61	0.61					
Total reduction	0.32	0.38	0.38	0.37	0.35	0.36					
Total, real	499	13	314	54	233	52					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Licensed user:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 82 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (679)****Assumptions for shadow calculations**

Sunshine probability S/50 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14		05:42	19:35 (18)	06:18		06:54	17:47 (19)	06:34		07:14
2	05:15		05:43	19:35 (18)	06:19		06:55	17:49 (19)	06:35		07:15
3	05:15	2	05:44	19:36 (18)	06:20		06:56	17:52 (19)	06:37		07:16
4	05:16	7	05:45	19:36 (18)	06:21		06:57	17:54 (19)	06:38		07:17
5	05:16	9	05:46	19:37 (18)	06:22		06:58	17:56 (19)	06:39		07:18
6	05:17	11	05:47	19:38 (18)	06:23		06:59	17:58 (19)	06:40		07:19
7	05:18	13	05:48	19:39 (18)	06:24	11	07:00	18:00 (19)	06:41		07:20
8	05:18	15	05:49	19:40 (18)	06:25	18	07:01	18:01 (19)	06:42		07:21
9	05:19	16	05:50	19:41 (18)	06:26	23	07:02	18:02 (19)	06:43		07:22
10	05:20	18	05:51	19:42 (18)	06:27	28	07:03	18:03 (19)	06:44		07:23
11	05:21	20	05:52	19:43 (18)	06:28	31	07:04	18:04 (19)	06:45		07:24
12	05:22	21	05:53	19:44 (18)	06:29	34	07:05	18:05 (19)	06:46		07:25
13	05:22	22	05:54	19:45 (18)	06:30	36	07:06	18:06 (19)	06:47		07:26
14	05:23	23	05:55	19:46 (18)	06:31	38	07:07	18:07 (19)	06:48		07:27
15	05:24	24	05:56	19:47 (18)	06:32	40	07:08	18:08 (19)	06:49		07:28
16	05:25	25	05:57	19:48 (18)	06:33	41	07:09	18:09 (19)	06:50		07:29
17	05:26	26	05:58	19:49 (18)	06:34	42	07:10	18:10 (19)	06:51		07:30
18	05:27	27	05:59	19:50 (18)	06:35	43	07:11	18:11 (19)	06:52		07:31
19	05:28	28	06:00	19:51 (18)	06:36	43	07:12	18:12 (19)	06:53		07:32
20	05:29	29	06:01	19:52 (18)	06:37	44	07:13	18:13 (19)	06:54		07:33
21	05:30	30	06:02	19:53 (18)	06:38	44	07:14	18:14 (19)	06:55		07:34
22	05:31	31	06:03	19:54 (18)	06:39	45	07:15	18:15 (19)	06:56		07:35
23	05:32		06:04	19:55 (18)	06:40	46	07:16	18:16 (19)	06:57		07:36
24	05:33		06:05	19:56 (18)	06:41	48	07:17	18:17 (19)	06:58		07:37
25	05:34		06:06	19:57 (18)	06:42	50	07:18	18:18 (19)	06:59		07:38
26	05:35		06:07	19:58 (18)	06:43	52	07:19	18:19 (19)	07:00		07:39
27	05:36		06:08	19:59 (18)	06:44	54	07:20	18:20 (19)	07:01		07:40
28	05:37		06:09	20:00 (18)	06:45	55	07:21	18:21 (19)	07:02		07:41
29	05:38		06:10	20:01 (18)	06:46	56	07:22	18:22 (19)	07:03		07:42
30	05:39		06:11	20:02 (18)	06:47	56	07:23	18:23 (19)	07:04		07:43
31	05:40		06:12	20:03 (18)	06:48	56	07:24	18:24 (19)	07:05		07:44
Potential sun hours	472		436		376		341		288		275
Total, worst case		685		138		905		66		960	1789
Sun reduction		0.64		0.60		0.54		0.47		0.31	0.33
Oper. time red.		1.00		1.00		1.00		1.00		1.00	1.00
Wind dir. red.		0.61		0.61		0.74		0.74		0.77	0.77
Total reduction		0.39		0.37		0.41		0.35		0.24	0.26
Total, real		270		51		369		23		233	462

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 83 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (680)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	14:05 (11)	07:17	06:36		06:39		17:51 (19)	05:48	05:14	19:27 (18)
2	07:35	14:05 (11)	07:16	06:34		06:37		17:53 (19)	05:46	05:14	19:27 (18)
3	07:35	14:05 (11)	07:15	06:32		06:35		17:55 (19)	05:45	05:13	19:28 (18)
4	07:35	14:06 (11)	07:14	06:31		06:33		17:59 (19)	05:43	05:13	19:28 (18)
5	07:35	14:07 (11)	07:13	06:29		06:32		18:14 (19)	05:42	05:12	19:29 (18)
6	07:35	14:08 (11)	07:11	06:27		06:30			05:40	05:12	19:30 (18)
7	07:34	14:09 (11)	07:10	06:25		06:28			05:39	05:11	19:30 (18)
8	07:34	14:09 (11)	07:09	06:24		06:26			05:38	05:11	19:31 (18)
9	07:34	14:10 (11)	07:07	06:22		06:24			05:36	05:11	19:32 (18)
10	07:34	14:11 (11)	07:06	06:20		06:23			05:35	05:11	19:33 (18)
11	07:33	14:12 (11)	07:05	06:18		06:21			05:34	05:10	19:32 (18)
12	07:33	14:13 (11)	07:03	06:16		06:19			05:33	05:10	19:33 (18)
13	07:33	14:14 (11)	07:02	06:14		06:17			05:31	05:10	19:34 (18)
14	07:32	14:15 (11)	07:00	06:13		06:15			05:30	05:10	19:34 (18)
15	07:32	14:16 (11)	06:59	06:11		06:14			05:29	05:10	19:35 (18)
16	07:31	14:17 (11)	06:57	06:09		06:12			05:28	05:10	19:36 (18)
17	07:31	14:19 (11)	06:56	06:07		06:10			05:27	05:10	19:36 (18)
18	07:30	14:20 (11)	06:54	06:05		06:08			05:26	05:10	19:36 (18)
19	07:29	14:22 (11)	06:53	06:03		06:07			05:25	05:10	19:37 (18)
20	07:29	14:23 (11)	06:51	06:01		06:05			05:24	05:10	19:38 (18)
21	07:28	14:26 (11)	06:49	06:00		06:03			05:23	05:10	19:38 (18)
22	07:27	14:28 (11)	06:48	06:58		06:02			05:22	05:11	19:38 (18)
23	07:26	14:31 (11)	06:46	06:56		06:00			05:21	05:11	19:38 (18)
24	07:25	14:34 (11)	06:44	06:54		05:58			05:20	05:11	19:38 (18)
25	07:24	14:37 (11)	06:43	06:52		05:57			05:19	05:11	19:38 (18)
26	07:24	14:39 (11)	06:41	06:50		05:55			05:18	05:12	19:38 (18)
27	07:23	14:41 (11)	06:39	06:48		05:54			05:17	05:12	19:38 (18)
28	07:22	14:43 (11)	06:37	06:46		05:52			05:16	05:13	19:38 (18)
29	07:21	14:45 (11)	06:35	06:44		05:50			05:15	05:13	19:37 (18)
30	07:20	14:47 (11)	06:33	06:42		05:48			05:14	05:13	19:37 (18)
31	07:19	14:49 (11)	06:31	06:40		05:46			05:13	05:13	19:37 (18)
Potential sun hours	286	291	369	404	459	466	561				
Total, worst case	1054		1046	95	718	561					
Sun reduction	0.41		0.51	0.49	0.56	0.59					
Oper. time red.	1.00		1.00	1.00	1.00	1.00					
Wind dir. red.	0.74		0.75	0.75	0.60	0.60					
Total reduction	0.31		0.39	0.37	0.34	0.36					
Total, real	326		405	35	247	203					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

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Licensed user:

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 83 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (680)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December		
1	05:14	19:38 (18)	05:42	19:35 (18)	06:18	06:54	17:31 (19)	06:34	07:14	13:54 (11)		
	20:47	19	19:57 (18)	20:25	24	19:59 (18)	19:35	18:39	40	18:11 (19)	16:46	
2	05:15	19:37 (18)	05:43	19:35 (18)	06:19	06:55	17:31 (19)	06:35	07:15	13:54 (11)		
	20:47	20	19:57 (18)	20:24	22	19:57 (18)	19:33	18:37	39	18:10 (19)	16:45	
3	05:15	19:37 (18)	05:44	19:36 (18)	06:20	06:56	17:33 (19)	06:37	07:16	13:54 (11)		
	20:47	21	19:58 (18)	20:23	20	19:56 (18)	19:32	18:35	36	18:09 (19)	16:43	
4	05:16	19:36 (18)	05:45	19:38 (18)	06:22	06:58	17:34 (19)	06:38	07:17	13:54 (11)		
	20:47	22	19:58 (18)	20:22	18	19:56 (18)	19:30	18:33	33	18:07 (19)	16:42	
5	05:16	19:36 (18)	05:46	19:39 (18)	06:23	06:59	17:35 (19)	06:40	07:18	13:54 (11)		
	20:46	23	19:59 (18)	20:20	15	19:54 (18)	19:28	18:31	29	18:04 (19)	16:41	
6	05:17	19:37 (18)	05:47	19:40 (18)	06:24	07:00	17:37 (19)	06:41	07:19	13:54 (11)		
	20:46	23	20:00 (18)	20:19	13	19:53 (18)	19:26	18:30	25	18:02 (19)	16:39	
7	05:18	19:36 (18)	05:48	19:42 (18)	06:25	07:01	17:40 (19)	06:42	07:20	13:54 (11)		
	20:46	24	20:00 (18)	20:17	10	19:52 (18)	19:24	18:28	19	17:59 (19)	16:38	
8	05:18	19:36 (18)	05:50	19:45 (18)	06:26	17:53 (19)	07:03	17:45 (19)	06:44	07:21	13:54 (11)	
	20:45	25	20:01 (18)	20:16	5	19:50 (18)	19:22	18:08 (19)	8	17:53 (19)	16:37	
9	05:19	19:36 (18)	05:51			06:28	17:49 (19)	07:04	06:45	07:22	13:54 (11)	
	20:45	25	20:01 (18)	20:15		19:20	18:11 (19)	18:24	16:36	16:16	55	
10	05:20	19:35 (18)	05:52			06:29	17:46 (19)	07:05	06:46	07:23	13:54 (11)	
	20:44	26	20:01 (18)	20:13		19:19	18:13 (19)	18:22	16:35	16:16	56	
11	05:21	19:35 (18)	05:53			06:30	17:44 (19)	07:06	06:48	07:24	13:55 (11)	
	20:44	27	20:02 (18)	20:12		19:17	18:14 (19)	18:20	16:33	16:16	55	
12	05:22	19:35 (18)	05:54			06:31	17:42 (19)	07:08	06:49	07:25	13:55 (11)	
	20:43	28	20:03 (18)	20:10		19:15	18:16 (19)	18:19	16:32	16:16	56	
13	05:22	19:35 (18)	05:55			06:32	17:40 (19)	07:09	06:51	07:26	13:56 (11)	
	20:43	28	20:03 (18)	20:09		19:13	18:17 (19)	18:17	16:31	16:16	56	
14	05:23	19:34 (18)	05:57			06:33	17:39 (19)	07:10	06:52	07:27	13:55 (11)	
	20:42	30	20:04 (18)	20:07		19:11	18:18 (19)	18:15	16:30	16:16	57	
15	05:24	19:33 (18)	05:58			06:35	17:37 (19)	07:11	06:53	07:27	13:56 (11)	
	20:42	31	20:04 (18)	20:06		19:09	18:18 (19)	18:13	16:29	16:16	56	
16	05:25	19:33 (18)	05:59			06:36	17:36 (19)	07:13	06:55	07:28	13:56 (11)	
	20:41	31	20:04 (18)	20:04		19:07	18:18 (19)	18:12	16:28	16:16	57	
17	05:26	19:33 (18)	06:00			06:37	17:34 (19)	07:14	06:56	07:29	13:56 (11)	
	20:40	32	20:05 (18)	20:03		19:05	18:18 (19)	18:10	16:27	16:17	57	
18	05:27	19:33 (18)	06:01			06:38	17:34 (19)	07:15	06:57	14:08 (11)	07:29	
	20:39	32	20:05 (18)	20:01		19:03	18:19 (19)	18:08	16:26	16	14:24 (11)	
19	05:28	19:33 (18)	06:03			06:39	17:33 (19)	07:17	06:59	14:05 (11)	07:30	
	20:39	33	20:06 (18)	19:58		19:01	18:19 (19)	18:07	16:25	22	14:27 (11)	
20	05:29	19:33 (18)	06:04			06:41	17:32 (19)	07:18	07:00	14:03 (11)	07:31	
	20:38	33	20:06 (18)	19:56		19:00	18:19 (19)	18:05	16:24	27	14:30 (11)	
21	05:30	19:33 (18)	06:05			06:42	17:31 (19)	07:19	07:01	14:01 (11)	07:31	
	20:37	33	20:06 (18)	19:54		18:58	18:19 (19)	18:03	16:24	30	14:31 (11)	
22	05:31	19:33 (18)	06:06			06:43	17:31 (19)	07:21	07:03	14:00 (11)	07:32	
	20:36	33	20:06 (18)	19:53		18:56	18:18 (19)	18:02	16:23	34	14:34 (11)	
23	05:32	19:33 (18)	06:07			06:44	17:30 (19)	07:22	07:04	13:59 (11)	07:32	
	20:35	33	20:06 (18)	19:51		18:54	18:18 (19)	18:00	16:22	36	14:35 (11)	
24	05:33	19:33 (18)	06:09			06:45	17:30 (19)	07:23	07:05	13:57 (11)	07:33	
	20:34	33	20:06 (18)	19:49		18:52	18:18 (19)	17:58	16:21	39	14:36 (11)	
25	05:34	19:33 (18)	06:10			06:47	17:30 (19)	07:25	07:06	13:57 (11)	07:33	
	20:33	33	20:06 (18)	19:48		18:50	18:17 (19)	17:57	16:21	41	14:38 (11)	
26	05:35	19:33 (18)	06:11			06:48	17:30 (19)	07:26	07:08	13:56 (11)	07:33	
	20:32	32	20:05 (18)	19:46		18:48	18:17 (19)	17:55	16:20	42	14:38 (11)	
27	05:36	19:33 (18)	06:12			06:49	17:29 (19)	07:27	07:09	13:55 (11)	07:34	
	20:31	31	20:04 (18)	19:44		18:46	18:16 (19)	17:54	16:19	44	14:39 (11)	
28	05:37	19:34 (18)	06:13			06:50	17:29 (19)	07:29	07:10	13:55 (11)	07:34	
	20:30	29	20:03 (18)	19:42		18:44	18:14 (19)	17:52	16:19	45	14:40 (11)	
29	05:38	19:34 (18)	06:14			06:51	17:30 (19)	07:30	07:11	13:55 (11)	07:34	
	20:29	28	20:02 (18)	19:41		18:43	18:14 (19)	17:51	16:18	47	14:42 (11)	
30	05:39	19:34 (18)	06:16			06:53	17:31 (19)	07:31	07:12	13:54 (11)	07:35	
	20:28	27	20:01 (18)	19:39		18:41	18:13 (19)	17:49	16:18	48	14:42 (11)	
31	05:40	19:35 (18)	06:17					07:33			07:35	
	20:26	25	20:00 (18)	19:37				17:48			16:25	
Potential sun hours	472		436		376		341		288		275	
Total, worst case		870		127		932		229		471		1720
Sun reduction		0.64		0.60		0.54		0.47		0.31		0.33
Oper. time red.		1.00		1.00		1.00		1.00		1.00		1.00
Wind dir. red.		0.60		0.60		0.75		0.75		0.74		0.74
Total reduction		0.39		0.37		0.41		0.36		0.23		0.25
Total, real		342		47		382		82		110		428

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

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8/28/2015 10:41 AM/2.9.285

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Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	07:17	15:40 (19)	06:36	15:37 (19)	06:39	05:48	19:09 (18)	05:14	19:07 (18)	
	16:26	17:04	47	16:27 (19)	17:43	55	16:32 (19)	19:24	20:00	19:37 (18)	20:35
2	07:35	07:16		15:39 (19)	06:34		15:38 (19)	06:37	05:46	19:07 (18)	05:14
	16:27	17:06	49	16:28 (19)	17:45	53	16:31 (19)	19:25	20:01	19:37 (18)	20:35
3	07:35	07:15		15:39 (19)	06:32		15:39 (19)	06:35	05:45	19:06 (18)	05:13
	16:28	17:07	51	16:30 (19)	17:46	50	16:29 (19)	19:26	20:03	19:39 (18)	20:36
4	07:35	07:14		15:38 (19)	06:31		15:40 (19)	06:33	05:43	19:05 (18)	05:13
	16:29	17:08	53	16:31 (19)	17:48	48	16:28 (19)	19:27	20:04	19:40 (18)	20:37
5	07:35	07:13		15:37 (19)	06:29		15:41 (19)	06:32	05:42	19:04 (18)	05:12
	16:30	17:10	54	16:31 (19)	17:49	45	16:26 (19)	19:29	20:05	19:41 (18)	20:38
6	07:35	07:11		15:37 (19)	06:27		15:44 (19)	06:30	05:40	19:04 (18)	05:12
	16:31	17:11	55	16:32 (19)	17:50	41	16:25 (19)	19:30	20:06	19:42 (18)	20:39
7	07:35	07:10		15:36 (19)	06:25		15:45 (19)	06:28	05:39	19:02 (18)	05:11
	16:32	17:13	58	16:34 (19)	17:52	38	16:23 (19)	19:31	20:07	19:43 (18)	20:39
8	07:34	07:09		15:35 (19)	07:24		16:47 (19)	06:26	05:38	19:02 (18)	05:11
	16:33	17:14	59	16:34 (19)	18:53	33	17:20 (19)	19:32	20:09	19:43 (18)	20:40
9	07:34	07:07		15:35 (19)	07:22		16:50 (19)	06:24	05:36	19:02 (18)	05:11
	16:34	17:16	60	16:35 (19)	18:54	27	17:17 (19)	19:34	20:10	19:44 (18)	20:41
10	07:34	07:06		15:34 (19)	07:20		16:54 (19)	06:23	05:35	19:02 (18)	05:11
	16:35	17:17	61	16:35 (19)	18:55	19	17:13 (19)	19:35	20:11	19:45 (18)	20:41
11	07:33	07:05		15:34 (19)	07:18		06:21	19:36	05:34	19:02 (18)	05:10
	16:36	17:18	62	16:36 (19)	18:57		19:36	19:36	20:12	19:45 (18)	20:42
12	07:33	07:03		15:33 (19)	07:16		06:19	19:37	05:33	19:01 (18)	05:10
	16:37	17:20	63	16:36 (19)	18:58		19:38	19:38	20:13	19:44 (18)	20:43
13	07:33	07:02		15:33 (19)	07:14		06:17	19:39	05:31	19:01 (18)	05:10
	16:39	17:21	64	16:37 (19)	18:59		19:39	19:39	20:15	19:45 (18)	20:43
14	07:32	07:00		15:33 (19)	07:13		06:15	19:40	05:30	19:01 (18)	05:10
	16:40	17:23	63	16:36 (19)	19:01		19:40	19:40	20:16	19:45 (18)	20:44
15	07:32	06:59		15:33 (19)	07:11		06:14	19:41	05:29	19:01 (18)	05:10
	16:41	17:24	64	16:37 (19)	19:02		19:41	19:41	20:17	19:45 (18)	20:44
16	07:31	06:57		15:32 (19)	07:09		06:12	19:42	05:28	19:01 (18)	05:10
	16:42	17:25	65	16:37 (19)	19:03		19:43	19:43	20:18	19:45 (18)	20:45
17	07:31	06:56		15:33 (19)	07:07		06:10	19:44	05:27	19:01 (18)	05:10
	16:44	17:27	64	16:37 (19)	19:05		19:44	19:44	20:19	19:45 (18)	20:45
18	07:30	06:54		15:32 (19)	07:05		06:09	19:45	05:26	19:01 (18)	05:10
	16:45	17:28	65	16:37 (19)	19:06		19:45	19:45	20:20	19:45 (18)	20:45
19	07:29	06:53		15:33 (19)	07:03		06:07	19:46	05:25	19:01 (18)	05:10
	16:46	17:30	65	16:38 (19)	19:07		19:46	19:46	20:21	19:45 (18)	20:46
20	07:29	06:51		15:33 (19)	07:01		06:05	19:47	05:24	19:01 (18)	05:10
	16:47	17:31	64	16:37 (19)	19:08		19:48	19:48	20:23	19:45 (18)	20:46
21	07:28	06:49		15:33 (19)	07:00		06:03	19:49	05:23	19:01 (18)	05:10
	16:49	17:32	63	16:36 (19)	19:10		19:49	19:49	20:24	19:44 (18)	20:46
22	07:27	06:48		15:34 (19)	06:58		06:02	19:50	05:22	19:02 (18)	05:11
	16:50	17:34	63	16:37 (19)	19:11		19:50	19:50	20:25	19:44 (18)	20:47
23	07:26	06:46		15:34 (19)	06:56		06:00	19:51	05:21	19:03 (18)	05:11
	16:52	17:35	62	16:36 (19)	19:12		19:51	19:51	20:26	19:45 (18)	20:47
24	07:25	06:44		15:34 (19)	06:54		05:58	19:52	05:20	19:03 (18)	05:11
	16:53	16:10 (19)	17:37	61	16:35 (19)	19:14	19:53	19:53	20:27	19:44 (18)	20:47
25	07:24	15:51 (19)	06:43		15:35 (19)	06:52	05:57	19:54	05:19	19:03 (18)	05:11
	16:54	16:13 (19)	17:38	60	16:35 (19)	19:15	19:54	19:54	20:28	19:44 (18)	20:47
26	07:24	15:49 (19)	06:41		15:35 (19)	06:50	05:55	19:55	05:18	19:03 (18)	05:12
	16:56	16:16 (19)	17:39	59	16:34 (19)	19:16	19:55	19:55	20:29	19:43 (18)	20:47
27	07:23	15:47 (19)	06:39		15:35 (19)	06:48	05:54	19:56	05:18	19:04 (18)	05:12
	16:57	16:18 (19)	17:41	58	16:33 (19)	19:17	19:56	19:56	20:30	19:44 (18)	20:47
28	07:22	15:45 (19)	06:38		15:36 (19)	06:46	05:52	19:57	05:17	19:05 (18)	05:13
	16:58	16:21 (19)	17:42	56	16:32 (19)	19:19	19:58	19:58	20:31	19:43 (18)	20:47
29	07:21	15:44 (19)			06:45		05:51	19:59	05:16	19:05 (18)	05:13
	17:00	16:22 (19)			19:20		19:59	19:59	20:32	19:43 (18)	20:47
30	07:20	15:43 (19)			06:43		05:49	20:00	05:15	19:06 (18)	05:13
	17:01	16:24 (19)			19:21		20:00	20:00	20:33	19:43 (18)	20:47
31	07:18	15:41 (19)			06:41				05:15	19:06 (18)	
	17:03	16:25 (19)			19:22				20:34	19:42 (18)	
Potential sun hours	286	291		369		404	459		466		
Total, worst case	255	1668		409		74	1244		787		
Sun reduction	0.41	0.48		0.51		0.49	0.56		0.59		
Oper. time red.	1.00	1.00		1.00		1.00	1.00		1.00		
Wind dir. red.	0.79	0.79		0.79		0.62	0.62		0.62		
Total reduction	0.33	0.39		0.41		0.31	0.35		0.37		
Total, real	84	646		168		23	440		293		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 84 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (681)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	19:18 (18)	05:42	19:11 (18)	06:18	06:54		06:34		15:04 (19)	07:14
2	05:15	19:17 (18)	05:43	19:11 (18)	06:19	06:55		06:35		15:05 (19)	07:15
3	05:15	19:17 (18)	05:44	19:11 (18)	06:20	06:56		16:35 (19)	06:37	15:05 (19)	07:16
4	05:16	19:17 (18)	05:45	19:13 (18)	06:22	06:58		16:29 (19)	06:38	15:05 (19)	07:17
5	05:16	19:17 (18)	05:46	19:13 (18)	06:23	06:59		16:26 (19)	06:40	15:06 (19)	07:18
6	05:17	19:17 (18)	05:47	19:13 (18)	06:24	07:00		16:22 (19)	06:41	15:07 (19)	07:19
7	05:18	19:16 (18)	05:48	19:14 (18)	06:25	07:01		16:21 (19)	06:42	15:08 (19)	07:20
8	05:18	19:16 (18)	05:50	19:14 (18)	06:26	07:03		16:18 (19)	06:44	15:09 (19)	07:21
9	05:19	19:16 (18)	05:51	19:15 (18)	06:28	07:04		16:16 (19)	06:45	15:10 (19)	07:22
10	05:20	19:15 (18)	05:52	19:15 (18)	06:29	07:05		16:15 (19)	06:46	15:11 (19)	07:23
11	05:21	19:15 (18)	05:53	19:16 (18)	06:30	07:06		16:13 (19)	06:48	15:13 (19)	07:24
12	05:22	19:15 (18)	05:54	19:17 (18)	06:31	07:08		16:11 (19)	06:49	15:14 (19)	07:25
13	05:22	19:14 (18)	05:55	19:20 (18)	06:32	07:09		16:09 (19)	06:51	15:16 (19)	07:26
14	05:23	19:14 (18)	05:57	19:21 (18)	06:33	07:10		16:09 (19)	06:52	15:17 (19)	07:27
15	05:24	19:13 (18)	05:58	19:24 (18)	06:35	07:11		16:07 (19)	06:53	15:20 (19)	07:27
16	05:25	19:13 (18)	05:59	19:28 (18)	06:36	07:13		16:06 (19)	06:55	15:22 (19)	07:28
17	05:26	19:13 (18)	06:00	19:35 (18)	06:37	07:14		16:06 (19)	06:56	15:25 (19)	07:29
18	05:27	19:13 (18)	06:01		06:38	07:15		16:05 (19)	06:57	15:28 (19)	07:29
19	05:28	19:13 (18)	06:03		06:39	07:17		16:05 (19)	06:59		07:30
20	05:29	19:12 (18)	06:04		06:41	07:18		16:04 (19)	07:00		07:31
21	05:30	19:12 (18)	06:05		06:42	07:19		16:03 (19)	07:01		07:31
22	05:31	19:12 (18)	06:06		06:43	07:21		16:03 (19)	07:03		07:32
23	05:32	19:12 (18)	06:07		06:44	07:22		16:03 (19)	07:04		07:32
24	05:33	19:12 (18)	06:09		06:45	07:23		16:03 (19)	07:05		07:33
25	05:34	19:12 (18)	06:10		06:47	07:25		16:02 (19)	07:06		07:33
26	05:35	19:11 (18)	06:11		06:48	07:26		16:02 (19)	07:08		07:33
27	05:36	19:11 (18)	06:12		06:49	07:27		16:03 (19)	07:09		07:34
28	05:37	19:11 (18)	06:13		06:50	07:29		16:02 (19)	07:10		07:34
29	05:38	19:11 (18)	06:14		06:51	07:30		16:03 (19)	07:11		07:34
30	05:39	19:11 (18)	06:16		06:53	07:31		16:03 (19)	07:12		07:35
31	05:40	19:11 (18)	06:17		06:54	07:32		16:04 (19)	07:13		07:35
Potential sun hours	472	436		376	341			288		275	
Total, worst case	1163	517		1568	796						
Sun reduction	0.64	0.60		0.47	0.31						
Oper. time red.	1.00	1.00		1.00	1.00						
Wind dir. red.	0.62	0.62		0.79	0.79						
Total reduction	0.40	0.38		0.38	0.25						
Total, real	470	196		595	199						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 87 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (684)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	13:57 (7)	07:17	14:21 (7)	06:36	06:39		17:35 (8)	05:48	18:50 (Alt 1)	05:14
	16:26	68	15:05 (7)	17:04	15:03 (7)	17:43		19:24	18:36 (8)	20:00	19:26 (Alt 1)
2	07:35		13:58 (7)	07:16	14:24 (7)	06:34		06:37	17:35 (8)	05:46	18:49 (Alt 1)
	16:27	68	15:06 (7)	17:06	15:02 (7)	17:45		19:25	18:35 (8)	20:01	19:25 (Alt 1)
3	07:35		13:59 (7)	07:15	14:26 (7)	06:33		06:35	17:34 (8)	05:45	18:50 (Alt 1)
	16:28	67	15:06 (7)	17:07	15:01 (7)	17:46		19:26	18:34 (8)	20:03	19:25 (Alt 1)
4	07:35		13:58 (7)	07:14	14:29 (7)	06:31		06:34	17:35 (8)	05:43	18:50 (Alt 1)
	16:29	68	15:06 (7)	17:08	14:59 (7)	17:48		19:27	18:34 (8)	20:04	19:24 (Alt 1)
5	07:35		13:59 (7)	07:13	14:31 (7)	06:29		06:32	17:36 (8)	05:42	18:51 (Alt 1)
	16:30	67	15:06 (7)	17:10	14:56 (7)	17:49		19:29	18:34 (8)	20:05	19:24 (Alt 1)
6	07:35		13:59 (7)	07:11	14:36 (7)	06:27		06:30	17:36 (8)	05:40	18:52 (Alt 1)
	16:31	68	15:07 (7)	17:11	14:52 (7)	17:50		19:30	18:33 (8)	20:06	19:23 (Alt 1)
7	07:35		14:00 (7)	07:10		06:25		06:28	17:36 (8)	05:39	18:52 (Alt 1)
	16:32	68	15:08 (7)	17:13		17:52		19:31	18:31 (8)	20:07	19:22 (Alt 1)
8	07:34		14:00 (7)	07:09		07:24		06:26	17:36 (8)	05:38	18:53 (Alt 1)
	16:33	67	15:07 (7)	17:14		18:53		19:33	18:30 (8)	20:09	19:21 (Alt 1)
9	07:34		14:01 (7)	07:07		07:22		06:24	17:38 (8)	05:36	18:54 (Alt 1)
	16:34	67	15:08 (7)	17:16		18:54		19:34	18:30 (8)	20:10	19:20 (Alt 1)
10	07:34		14:02 (7)	07:06		07:20		06:23	17:38 (8)	05:35	18:56 (Alt 1)
	16:35	67	15:09 (7)	17:17		18:56		19:35	18:29 (8)	20:11	19:19 (Alt 1)
11	07:33		14:02 (7)	07:05		07:18	18:03 (8)	06:21	17:39 (8)	05:34	18:57 (Alt 1)
	16:36	66	15:08 (7)	17:18		18:57	18	18:21 (8)	18:27 (8)	20:12	19:18 (Alt 1)
12	07:33		14:03 (7)	07:03		07:16		06:19	17:40 (8)	05:33	18:58 (Alt 1)
	16:37	66	15:09 (7)	17:20		18:58	26	18:24 (8)	18:25 (8)	20:13	19:15 (Alt 1)
13	07:33		14:03 (7)	07:02		07:14		06:17	17:41 (8)	05:31	19:01 (Alt 1)
	16:39	66	15:09 (7)	17:21		18:59	32	18:27 (8)	18:24 (8)	20:15	19:13 (Alt 1)
14	07:32		14:04 (7)	07:00		07:13		06:15	17:43 (8)	05:30	05:10
	16:40	66	15:10 (7)	17:23		19:01	37	18:29 (8)	18:23 (8)	20:16	20:44
15	07:32		14:04 (7)	06:59		07:11		06:14	17:44 (8)	05:29	05:10
	16:41	65	15:09 (7)	17:24		19:02	40	18:30 (8)	19:18 (Alt 1)	20:17	20:44
16	07:31		14:05 (7)	06:57		07:09		06:12	17:46 (8)	05:28	05:10
	16:42	65	15:10 (7)	17:26		19:03	44	18:32 (8)	19:19 (Alt 1)	20:18	20:45
17	07:31		14:06 (7)	06:56		07:07		06:10	17:49 (8)	05:27	05:10
	16:44	64	15:10 (7)	17:27		19:05	47	18:33 (8)	19:21 (Alt 1)	20:19	20:45
18	07:30		14:06 (7)	06:54		07:05		06:09	17:51 (8)	05:26	05:10
	16:45	64	15:10 (7)	17:28		19:06	50	18:34 (8)	19:21 (Alt 1)	20:20	20:46
19	07:29		14:07 (7)	06:53		07:03		06:07	17:55 (8)	05:25	05:10
	16:46	63	15:10 (7)	17:30		19:07	51	18:35 (8)	19:22 (Alt 1)	20:22	20:46
20	07:29		14:08 (7)	06:51		07:01		06:05	18:54 (Alt 1)	05:24	05:10
	16:47	62	15:10 (7)	17:31		19:08	54	18:36 (8)	19:24 (Alt 1)	20:23	20:46
21	07:28		14:09 (7)	06:49		07:00		06:03	18:53 (Alt 1)	05:23	05:10
	16:49	61	15:10 (7)	17:33		19:10	55	18:36 (8)	19:25 (Alt 1)	20:24	20:46
22	07:27		14:10 (7)	06:48		06:58		06:02	18:52 (Alt 1)	05:22	05:11
	16:50	60	15:10 (7)	17:34		19:11	57	18:37 (8)	19:26 (Alt 1)	20:25	20:47
23	07:26		14:10 (7)	06:46		06:56		06:00	18:51 (Alt 1)	05:21	05:11
	16:52	59	15:09 (7)	17:35		19:12	58	18:37 (8)	19:27 (Alt 1)	20:26	20:47
24	07:25		14:11 (7)	06:44		06:54		05:58	18:50 (Alt 1)	05:20	05:11
	16:53	58	15:09 (7)	17:37		19:14	59	18:37 (8)	19:27 (Alt 1)	20:27	20:47
25	07:25		14:12 (7)	06:43		06:52		05:57	18:50 (Alt 1)	05:19	05:11
	16:54	57	15:09 (7)	17:38		19:15	60	18:37 (8)	19:28 (Alt 1)	20:28	20:47
26	07:24		14:13 (7)	06:41		06:50		05:55	18:50 (Alt 1)	05:18	05:12
	16:56	55	15:08 (7)	17:39		19:16	61	18:37 (8)	19:27 (Alt 1)	20:29	20:47
27	07:23		14:14 (7)	06:39		06:48		05:54	18:50 (Alt 1)	05:18	05:12
	16:57	54	15:08 (7)	17:41		19:17	61	18:37 (8)	19:28 (Alt 1)	20:30	20:47
28	07:22		14:16 (7)	06:38		06:47		05:52	18:49 (Alt 1)	05:17	05:13
	16:58	51	15:07 (7)	17:42		19:19	61	18:37 (8)	19:27 (Alt 1)	20:31	20:47
29	07:21		14:17 (7)			06:45		05:51	18:50 (Alt 1)	05:16	05:13
	17:00	50	15:07 (7)			19:20	61	18:37 (8)	19:27 (Alt 1)	20:32	20:47
30	07:20		14:19 (7)			06:43		05:49	18:49 (Alt 1)	05:15	05:13
	17:01	47	15:06 (7)			19:21	62	18:37 (8)	19:26 (Alt 1)	20:33	20:47
31	07:18		14:20 (7)			06:41				05:15	
	17:03	45	15:05 (7)			19:22	61	18:36 (8)		20:34	
Potential sun hours	286		291		369		404		459		466
Total, worst case		1919		186		1055		1370		362	
Sun reduction		0.41		0.48		0.51		0.49		0.56	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.75		0.75		0.74		0.71		0.64	
Total reduction		0.31		0.36		0.38		0.35		0.36	
Total, real		593		67		402		477		131	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

Jericho_SFA_2015_08_28

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 87 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (684)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42	19:08 (Alt 1)	06:18	17:38 (8)	06:54	17:36 (8)	06:34		07:14	13:44 (7)
2	05:15	05:43	19:06 (Alt 1)	06:19	17:36 (8)	06:55	17:39 (8)	06:36		07:15	13:44 (7)
3	05:15	05:44	19:05 (Alt 1)	06:20	17:35 (8)	06:56	17:45 (8)	06:37		07:16	13:45 (7)
4	05:16	05:45	19:04 (Alt 1)	06:22	17:34 (8)	06:58	17:55 (8)	06:38		07:17	13:45 (7)
5	05:16	05:46	19:03 (Alt 1)	06:23	17:33 (8)	06:59		06:40	14:05 (7)	07:18	13:45 (7)
6	05:17	05:47	19:02 (Alt 1)	06:24	17:32 (8)	07:00		06:41	14:01 (7)	07:19	13:46 (7)
7	05:18	05:48	19:01 (Alt 1)	06:25	17:31 (8)	07:01		06:42	14:26 (7)	07:20	13:46 (7)
8	05:18	05:50	19:00 (Alt 1)	06:26	17:30 (8)	07:03		06:44	14:29 (7)	07:21	13:46 (7)
9	05:19	05:51	18:59 (Alt 1)	06:28	17:29 (8)	07:04		06:45	14:31 (7)	07:22	13:47 (7)
10	05:20	05:52	18:58 (Alt 1)	06:29	17:28 (8)	07:05		06:47	14:33 (7)	07:23	13:47 (7)
11	05:21	05:53	18:58 (Alt 1)	06:30	17:27 (8)	07:06		06:48	14:34 (7)	07:24	13:48 (7)
12	05:22	05:54	18:57 (Alt 1)	06:31	17:27 (8)	07:08		06:49	14:36 (7)	07:25	13:48 (7)
13	05:22	05:55	18:56 (Alt 1)	06:32	17:26 (8)	07:09		06:51	14:37 (7)	07:26	13:49 (7)
14	05:23	05:57	18:57 (Alt 1)	06:33	17:26 (8)	07:10		06:52	14:39 (7)	07:27	13:48 (7)
15	05:24	05:58	18:57 (Alt 1)	06:35	17:25 (8)	07:12		06:53	14:41 (7)	07:28	13:47 (7)
16	05:25	05:59	18:57 (Alt 1)	06:36	17:25 (8)	07:13		06:55	14:43 (7)	07:29	13:47 (7)
17	05:26	06:00	18:56 (Alt 1)	06:37	17:25 (8)	07:14		06:56	14:44 (7)	07:30	13:47 (7)
18	05:27	06:01	18:56 (Alt 1)	06:38	17:25 (8)	07:15		06:57	14:45 (7)	07:31	13:47 (7)
19	05:28	06:03	18:56 (Alt 1)	06:39	17:25 (8)	07:17		06:59	14:46 (7)	07:32	13:47 (7)
20	05:29	06:04	18:56 (Alt 1)	06:41	17:25 (8)	07:18		07:00	14:47 (7)	07:33	13:47 (7)
21	05:30	06:05	18:57 (Alt 1)	06:42	17:25 (8)	07:19		07:01	14:48 (7)	07:34	13:47 (7)
22	05:31	06:06	18:58 (Alt 1)	06:43	17:25 (8)	07:21		07:03	14:49 (7)	07:35	13:47 (7)
23	05:32	06:07	18:58 (Alt 1)	06:44	17:25 (8)	07:22		07:04	14:50 (7)	07:36	13:47 (7)
24	05:33	06:09	18:58 (Alt 1)	06:45	17:25 (8)	07:23		07:05	14:51 (7)	07:37	13:47 (7)
25	05:34	06:10	18:58 (Alt 1)	06:46	17:25 (8)	07:24		07:06	14:52 (7)	07:38	13:47 (7)
26	05:35	06:11	18:58 (Alt 1)	06:47	17:25 (8)	07:25		07:07	14:53 (7)	07:39	13:47 (7)
27	05:36	06:12	18:58 (Alt 1)	06:48	17:25 (8)	07:26		07:08	14:54 (7)	07:40	13:47 (7)
28	05:37	06:13	18:58 (Alt 1)	06:49	17:25 (8)	07:27		07:09	14:55 (7)	07:41	13:47 (7)
29	05:38	06:14	18:58 (Alt 1)	06:50	17:25 (8)	07:28		07:10	14:56 (7)	07:42	13:47 (7)
30	05:39	06:15	18:58 (Alt 1)	06:51	17:25 (8)	07:29		07:11	14:57 (7)	07:43	13:47 (7)
31	05:40	06:16	18:58 (Alt 1)	06:52	17:25 (8)	07:30		07:12	14:58 (7)	07:44	13:47 (7)
Potential sun hours	472	436	376	341	288	274					
Total, worst case	21	1116	1634	59	1367	2095					
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.33					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.64	0.67	0.74	0.74	0.75	0.75					
Total reduction	0.41	0.40	0.40	0.35	0.23	0.25					
Total, real	9	449	659	21	319	521					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 19

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 88 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (685)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December													
1	07:35	08:12 (18)	07:17	08:30 (18)	06:36	06:39	05:48	05:14	05:14	05:42	06:18	06:54	06:34	07:14	07:56 (18)										
2	16:26	74 15:58 (10)	17:04	23 08:53 (18)	17:44	19:24	20:00	20:35	20:47	20:25	19:35	18:39	16:46	16:17	74 15:43 (10)										
3	07:35	08:12 (18)	07:16	08:32 (18)	06:34	06:37	05:46	05:14	05:15	05:43	06:19	06:55	06:36	07:15	07:56 (18)										
4	16:27	73 15:58 (10)	17:06	20 08:52 (18)	17:45	19:25	20:01	20:35	20:47	20:24	19:33	18:37	16:45	16:17	75 15:43 (10)										
5	07:35	08:12 (18)	07:15	08:36 (18)	06:33	06:35	05:45	05:13	05:15	05:44	06:20	06:56	06:37	07:16	07:58 (18)										
6	16:28	75 15:59 (10)	17:07	13 08:49 (18)	17:46	19:26	20:03	20:36	20:47	20:23	19:32	18:35	16:44	16:17	74 15:44 (10)										
7	07:35	08:12 (18)	07:14		06:31	06:34	05:43	05:13	05:16	05:45	06:22	06:58	06:38	07:17	07:58 (18)										
8	16:29	74 15:58 (10)	17:08		17:48	19:27	20:04	20:37	20:47	20:22	19:30	18:33	16:42	16:16	75 15:45 (10)										
9	07:35	08:12 (18)	07:13		06:29	06:32	05:42	05:12	05:16	05:46	06:23	06:59	06:40	07:18	07:58 (18)										
10	16:30	75 15:59 (10)	17:10		17:49	19:29	20:05	20:38	20:46	20:20	19:28	18:31	16:41	16:16	75 15:45 (10)										
11	07:35	08:13 (18)	07:11		06:27	06:30	05:40	05:12	05:17	05:47	06:24	07:00	06:41	07:19	07:59 (18)										
12	16:31	74 15:59 (10)	17:11		17:50	19:30	20:06	20:39	20:46	20:19	19:26	18:30	16:40	16:16	75 15:46 (10)										
13	07:35	08:13 (18)	07:10		06:25	06:28	05:39	05:11	05:18	05:48	06:25	07:01	06:42	07:20	07:59 (18)										
14	16:32	75 16:00 (10)	17:13		17:52	19:31	20:07	20:39	20:46	20:18	19:24	18:28	16:38	16:16	75 15:46 (10)										
15	07:34	08:13 (18)	07:09		07:24	06:26	05:38	05:11	05:18	05:50	06:26	07:03	06:44	08:05 (18)	07:21	08:00 (18)									
16	16:33	75 16:00 (10)	17:14		18:53	19:33	20:09	20:40	20:45	20:16	19:22	18:26	16:37	14 08:19 (18)	16:16	74 15:46 (10)									
17	07:34	08:14 (18)	07:07		07:22	06:24	05:36	05:11	05:19	05:51	06:28	07:04	06:45	08:03 (18)	07:22	08:00 (18)									
18	16:34	74 16:00 (10)	17:16		18:54	19:34	20:10	20:41	20:45	20:15	19:20	18:24	16:36	20 08:23 (18)	16:16	75 15:47 (10)									
19	07:34	08:14 (18)	07:06		07:20	06:23	05:35	05:11	05:20	05:52	06:29	07:05	06:47	08:01 (18)	07:23	08:01 (18)									
20	16:35	75 16:01 (10)	17:17		18:56	19:35	20:11	20:41	20:44	20:13	19:19	18:22	16:35	23 08:24 (18)	16:16	74 15:47 (10)									
21	07:33	08:14 (18)	07:05		07:18	06:21	05:34	05:10	05:21	05:53	06:30	07:06	06:48	08:00 (18)	07:24	08:02 (18)									
22	16:36	74 16:01 (10)	17:18		18:57	19:36	20:12	20:42	20:44	20:12	19:17	18:20	16:33	27 08:27 (18)	16:16	74 15:48 (10)									
23	07:33	08:15 (18)	07:03		07:16	06:19	05:33	05:10	05:22	05:54	06:31	07:08	06:49	07:58 (18)	07:25	08:02 (18)									
24	16:37	73 16:01 (10)	17:20		18:58	19:38	20:14	20:43	20:43	20:10	19:15	18:19	16:32	30 08:28 (18)	16:16	73 15:48 (10)									
25	07:33	08:15 (18)	07:02		07:15	06:17	05:31	05:10	05:22	05:56	06:32	07:09	06:51	07:58 (18)	07:26	08:03 (18)									
26	16:39	73 16:01 (10)	17:21		18:59	19:39	20:15	20:43	20:43	20:09	19:13	18:17	16:31	32 08:30 (18)	16:16	72 15:48 (10)									
27	07:32	08:16 (18)	07:00		07:13	06:15	05:30	05:10	05:23	05:57	06:33	07:10	06:52	07:56 (18)	07:27	08:03 (18)									
28	16:40	72 16:01 (10)	17:23		19:01	19:40	20:16	20:44	20:42	20:07	19:11	18:15	16:30	35 08:31 (18)	16:16	71 15:47 (10)									
29	07:32	08:16 (18)	06:59		07:11	06:14	05:29	05:10	05:24	05:58	06:35	07:12	06:53	07:56 (18)	07:27	08:03 (18)									
30	16:41	71 16:01 (10)	17:24		19:02	19:41	20:17	20:44	20:42	20:06	19:09	18:13	16:29	36 08:32 (18)	16:16	72 15:48 (10)									
31	07:31	08:17 (18)	06:57		07:09	06:12	05:28	05:10	05:25	05:59	06:36	07:13	06:55	07:55 (18)	07:28	08:04 (18)									
32	16:42	71 16:02 (10)	17:26		19:03	19:43	20:18	20:45	20:41	20:04	19:07	18:12	16:28	38 08:33 (18)	16:16	71 15:48 (10)									
33	07:31	08:17 (18)	06:56		07:07	06:10	05:27	05:10	05:26	06:00	06:37	07:14	06:56	07:56 (18)	07:29	08:05 (18)									
34	16:44	69 16:01 (10)	17:27		19:05	19:44	20:19	20:45	20:40	20:03	19:05	18:10	16:27	38 08:34 (18)	16:17	71 15:49 (10)									
35	07:30	08:17 (18)	06:54		07:05	06:09	05:26	05:10	05:27	06:01	06:38	07:15	06:57	07:55 (18)	07:30	08:05 (18)									
36	16:45	68 16:00 (10)	17:28		19:06	19:45	20:20	20:46	20:39	20:01	19:03	18:08	16:26	39 08:34 (18)	16:17	70 15:48 (10)									
37	07:29	08:17 (18)	06:53		07:03	06:07	05:25	05:10	05:28	06:03	06:39	07:17	06:59	07:54 (18)	07:30	08:06 (18)									
38	16:46	67 16:00 (10)	17:30		19:07	19:46	20:22	20:46	20:39	19:58	19:02	18:07	16:25	51 15:29 (10)	16:17	70 15:49 (10)									
39	07:29	08:19 (18)	06:51		07:02	06:05	05:24	05:10	05:29	06:04	06:41	07:18	07:00	07:55 (18)	07:31	08:06 (18)									
40	16:48	63 16:00 (10)	17:31		19:08	19:48	20:23	20:46	20:38	19:56	19:00	18:05	16:24	55 15:32 (10)	16:18	70 15:49 (10)									
41	07:28	08:19 (18)	06:49		07:00	06:03	05:23	05:10	05:30	06:05	06:42	07:19	07:01	07:54 (18)	07:31	08:07 (18)									
42	16:49	60 15:59 (10)	17:33		19:10	19:49	20:24	20:46	20:37	19:54	18:58	18:03	16:24	60 15:34 (10)	16:18	70 15:50 (10)									
43	07:27	08:20 (18)	06:48		06:58	06:02	05:22	05:11	05:31	06:06	06:43	07:21	07:03	07:55 (18)	07:32	08:07 (18)									
44	16:50	55 15:57 (10)	17:34		19:11	19:50	20:25	20:47	20:36	19:53	18:56	18:02	16:23	63 15:36 (10)	16:19	70 15:50 (10)									
45	07:26	08:20 (18)	06:46		06:56	06:00	05:21	05:11	05:32	06:07	06:44	07:22	07:04	07:54 (18)	07:32	08:08 (18)									
46	16:52	51 15:55 (10)	17:35		19:12	19:51	20:26	20:47	20:35	19:51	18:54	18:00	16:22	67 15:37 (10)	16:19	70 15:51 (10)									
47	07:25	08:21 (18)	06:45		06:54	05:59	05:20	05:11	05:33	06:09	06:45	07:23	07:05	07:54 (18)	07:33	08:08 (18)									
48	16:53	39 09:00 (18)	17:37		19:14	19:53	20:27	20:47	20:34	19:49	18:52	17:58	16:21	68 15:37 (10)	16:20	70 15:51 (10)									
49	07:25	08:22 (18)	06:43		06:52	05:57	05:19	05:11	05:34	06:10	06:47	07:25	07:06	07:55 (18)	07:33	08:09 (18)									
50	16:54	38 09:00 (18)	17:38		19:15	19:54	20:28	20:47	20:33	19:48	18:50	17:57	16:21	69 15:39 (10)	16:20	70 15:52 (10)									
51	07:24	08:22 (18)	06:41		06:50	05:55	05:18	05:12	05:35	06:11	06:48	07:26	07:08	07:55 (18)	07:34	08:09 (18)									
52	16:56	38 09:00 (18)	17:39		19:16	19:55	20:29	20:47	20:32	19:46	18:48	17:55	16:20	71 15:40 (10)	16:21	71 15:53 (10)									
53	07:23	08:23 (18)	06:39		06:48	05:54	05:18	05:12	05:36	06:12	06:49	07:27	07:09	07:55 (18)	07:34	08:09 (18)									
54	16:57	36 08:59 (18)	17:41		19:17	19:56	20:30	20:47	20:31	19:44	18:46	17:54	16:19	71 15:40 (10)	16:22	71 15:53 (10)									
55	07:22	08:25 (18)	06:38		06:47	05:52	05:17	05:13	05:37	06:13	06:50	07:29	07:10	07:56 (18)	07:34	08:09 (18)									
56	16:58	34 08:59 (18)	17:42		19:19	19:58	20:31	20:47	20:30	19:42	18:44	17:52	16:19	72 15:41 (10)	16:22	72 15:54 (10)									
57	07:21	08:26 (18)			06:45	05:51	05:16	05:13	05:38	06:15	06:51	07:30	07:11	07:56 (18)	07:34	08:10 (18)									
58	17:00	32 08:58 (18)			19:20	19:59	20:32	20:47	20:29	19:41	18:43	17:51	16:18	73 15:42 (10)	16:23	71 15:54 (10)									
59	07:20	08:27 (18)			06:43	05:49	05:15	05:13	05:39	06:16	06:53	07:31	07:13	07:56 (18)	07:35	08:11 (18)									
60	17:01	30 08:57 (18)			19:21	20:00	20:33	20:47	20:28	19:39	18:41	17:49	16:18	73 15:42 (10)	16:24	73 15:56 (10)									
61	07:18	08:29 (18)			06:41		05:15		05:40	06:17		07:33			07:35	08:11 (18)									
62	17:03	27 08:56 (18)			19:22		20:34		20:27	19:37		17:48			16:25	73 15:57 (10)									
Potential sun hours	286		291		369		404		459		472		436		376		341		288		1125		2241		274
Total, worst case	1885		56																		0.31		0.33		
Sun reduction	0.41		0.48																		1.00		1.00		
Oper. time red.	1.00		1.00																		0.58		0.63		
Wind dir. red.	0.60		0.51																		0.18		0.21		
Total reduction	0.25		0.25																		0.18		0.21		
Total, real	466		14																		202		465		

Project:

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 105 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (697)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March	April	May	June	
1	07:35	14:24 (34)	07:17	06:36	06:39	05:48	05:14	05:55 (13)
	16:26	26	14:50 (34)	17:04	17:44	19:24	20:00	20:35
2	07:35		14:26 (34)	07:16	06:34	06:37	05:46	05:54 (13)
	16:27	24	14:50 (34)	17:06	17:45	19:25	20:01	20:35
3	07:35		14:27 (34)	07:15	06:33	06:35	05:45	05:55 (13)
	16:28	23	14:50 (34)	17:07	17:46	19:26	20:03	20:36
4	07:35		14:27 (34)	07:14	06:31	06:34	05:43	05:55 (13)
	16:29	22	14:49 (34)	17:09	17:48	19:28	20:04	20:37
5	07:35		14:29 (34)	07:13	06:29	06:32	05:42	05:55 (13)
	16:30	19	14:48 (34)	17:10	17:49	19:29	20:05	20:38
6	07:35		14:31 (34)	07:11	06:27	06:30	05:41	05:56 (13)
	16:31	17	14:48 (34)	17:11	17:50	19:30	20:06	20:39
7	07:35		14:33 (34)	07:10	06:25	06:28	05:39	05:55 (13)
	16:32	14	14:47 (34)	17:13	17:52	19:31	20:08	20:39
8	07:34		14:36 (34)	07:09	07:24	06:26	05:38	05:56 (13)
	16:33	8	14:44 (34)	17:14	18:53	19:33	20:09	20:40
9	07:34			07:07	07:22	06:25	05:37	05:56 (13)
	16:34			17:16	18:54	19:34	20:10	20:41
10	07:34			07:06	07:20	06:23	05:35	05:57 (13)
	16:35			17:17	18:56	19:35	20:11	20:41
11	07:34			07:05	07:18	06:21	05:34	05:57 (13)
	16:36			17:19	18:57	19:36	20:12	20:42
12	07:33			07:03	07:16	06:19	05:33	05:56 (13)
	16:38			17:20	18:58	19:38	20:14	20:43
13	07:33			07:02	07:15	06:17	05:32	05:57 (13)
	16:39			17:21	19:00	19:39	20:15	20:43
14	07:32			07:00	07:13	06:16	05:30	05:57 (13)
	16:40			17:23	19:01	19:40	20:16	20:44
15	07:32			06:59	07:11	06:14	05:29	05:57 (13)
	16:41			17:24	19:02	19:41	20:17	20:44
16	07:31			06:57	07:09	06:12	05:28	05:56 (13)
	16:42			17:26	19:03	19:43	20:18	20:45
17	07:31			06:56	07:07	06:10	05:27	05:56 (13)
	16:44			17:27	19:05	19:44	20:19	20:45
18	07:30			06:54	07:05	06:09	05:26	05:55 (13)
	16:45			17:28	19:06	19:45	20:20	20:46
19	07:29			06:53	07:03	06:07	05:25	05:55 (13)
	16:46			17:30	19:07	19:46	20:22	20:46
20	07:29			06:51	07:02	06:05	05:24	05:55 (13)
	16:48			17:31	19:09	19:48	20:23	20:46
21	07:28			06:49	07:00	06:04	05:23	05:54 (13)
	16:49			17:33	19:10	19:49	20:24	20:46
22	07:27			06:48	06:58	06:02	05:22	05:55 (13)
	16:50			17:34	19:11	19:50	20:25	20:47
23	07:26			06:46	06:56	06:00	05:21	05:55 (13)
	16:52			17:35	19:12	19:51	20:26	20:47
24	07:25			06:45	06:54	05:59	05:20	05:54 (13)
	16:53			17:37	19:14	19:53	20:27	20:47
25	07:25			06:43	06:52	05:57	05:19	05:54 (13)
	16:54			17:38	19:15	19:54	20:28	20:47
26	07:24			06:41	06:50	05:55	05:18	05:54 (13)
	16:56			17:40	19:16	19:55	20:29	20:47
27	07:23			06:40	06:48	05:54	05:18	05:54 (13)
	16:57			17:41	19:17	19:56	20:30	20:47
28	07:22			06:38	06:47	05:52	05:17	05:54 (13)
	16:59			17:42	19:19	19:58	20:31	20:47
29	07:21				06:45	05:51	05:16	05:54 (13)
	17:00				19:20	19:59	20:32	20:47
30	07:20				06:43	05:49	05:16	05:54 (13)
	17:01				19:21	20:00	20:33	20:47
31	07:19				06:41		05:15	05:54 (13)
	17:03				19:23		20:34	20:45 (13)
Potential sun hours	286		291	369	404	459	466	
Total, worst case	153					1144		1494
Sun reduction	0.41					0.56		0.59
Oper. time red.	1.00					1.00		1.00
Wind dir. red.	0.74					0.79		0.79
Total reduction	0.30					0.44		0.46
Total, real	46					501		690

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 21

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 105 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (697)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September/October		November/December	
1	05:14	06:01 (13)	05:42	06:10 (13)	06:18	06:54	06:34
2	05:15	06:01 (13)	05:43	06:11 (13)	06:19	06:55	06:36
3	05:15	06:01 (13)	05:44	06:13 (13)	06:21	06:56	06:37
4	05:16	06:01 (13)	05:45	06:14 (13)	06:22	06:58	06:38
5	05:17	06:01 (13)	05:46	06:15 (13)	06:23	06:59	06:40
6	05:17	06:02 (13)	05:47	06:17 (13)	06:24	07:00	06:41
7	05:18	06:01 (13)	05:49	06:19 (13)	06:25	07:01	06:42
8	05:19	06:02 (13)	05:50	06:23 (13)	06:26	07:03	06:44
9	05:19	06:02 (13)	05:51	06:35 (13)	06:28	07:04	06:45
10	05:20	06:03 (13)	05:52		06:29	07:05	06:47
11	05:21	06:02 (13)	05:53		06:30	07:06	06:48
12	05:22	06:02 (13)	05:54		06:31	07:08	06:49
13	05:23	06:03 (13)	05:56		06:32	07:09	06:51
14	05:23	06:03 (13)	05:57		06:34	07:10	06:52
15	05:24	06:03 (13)	05:58		06:35	07:12	06:53
16	05:25	06:04 (13)	05:59		06:36	07:13	06:55
17	05:26	06:03 (13)	06:00		06:37	07:14	06:56
18	05:27	06:03 (13)	06:02		06:38	07:15	06:57
19	05:28	06:04 (13)	06:03		06:40	07:17	06:59
20	05:29	06:04 (13)	06:04		06:41	07:18	07:00
21	05:30	06:04 (13)	06:05		06:42	07:19	07:01
22	05:31	06:05 (13)	06:06		06:43	07:21	07:03
23	05:32	06:05 (13)	06:07		06:44	07:22	07:04
24	05:33	06:05 (13)	06:09		06:45	07:23	07:05
25	05:34	06:06 (13)	06:10		06:47	07:25	07:06
26	05:35	06:06 (13)	06:11		06:48	07:26	07:08
27	05:36	06:07 (13)	06:12		06:49	07:27	07:09
28	05:37	06:07 (13)	06:13		06:50	07:29	07:10
29	05:38	06:08 (13)	06:15		06:52	07:30	07:11
30	05:40	06:08 (13)	06:16		06:53	07:31	07:13
31	05:41	06:09 (13)	06:17		06:54	07:32	07:14
Potential sun hours	472	436		376	341	288	275
Total, worst case	1516	223					760
Sun reduction	0.64	0.60					0.33
Oper. time red.	1.00	1.00					1.00
Wind dir. red.	0.79	0.79					0.74
Total reduction	0.50	0.47					0.24
Total, real	759	105					186

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 22

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 106 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (698)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June				
1	07:35		14:41 (34)	07:17		06:36		06:57 (15)	06:39	05:48		05:14	05:45 (13)		
	16:26	40	15:21 (34)	17:04		17:44	23	07:20 (15)	19:24	20:00		20:35	50	06:35 (13)	
2	07:35		14:41 (34)	07:16		06:34		06:57 (15)	06:37	05:46		05:14		05:45 (13)	
	16:27	41	15:22 (34)	17:06		17:45	23	07:20 (15)	19:25	20:01		20:35	50	06:35 (13)	
3	07:35		14:42 (34)	07:15		06:33		06:56 (15)	06:35	05:45		05:13		05:45 (13)	
	16:28	40	15:22 (34)	17:07		17:46	23	07:19 (15)	19:26	20:03		20:36	51	06:36 (13)	
4	07:35		14:42 (34)	07:14		06:31		06:56 (15)	06:34	05:43		05:13		05:44 (13)	
	16:29	39	15:21 (34)	17:09		17:48	23	07:19 (15)	19:28	20:04		20:37	52	06:36 (13)	
5	07:35		14:43 (34)	07:13		06:29		06:56 (15)	06:32	05:42		05:12		05:44 (13)	
	16:30	39	15:22 (34)	17:10		17:49	23	07:19 (15)	19:29	20:05		20:38	53	06:37 (13)	
6	07:35		14:44 (34)	07:11		06:27		06:56 (15)	06:30	05:41		05:12		05:45 (13)	
	16:31	38	15:22 (34)	17:11		17:50	23	07:19 (15)	19:30	20:06		20:39	53	06:38 (13)	
7	07:35		14:45 (34)	07:10		06:25		06:57 (15)	06:28	05:39		05:12		05:44 (13)	
	16:32	37	15:22 (34)	17:13		17:52	20	07:17 (15)	19:31	20:08		20:39	53	06:37 (13)	
8	07:34		14:45 (34)	07:09		06:24		07:57 (15)	06:26	05:38		05:11		05:44 (13)	
	16:33	36	15:21 (34)	17:14		18:53	19	08:16 (15)	19:33	20:09		20:40	54	06:38 (13)	
9	07:34		14:47 (34)	07:07		07:22		07:58 (15)	06:25	05:37		05:11		05:45 (13)	
	16:34	35	15:22 (34)	17:16		18:54	16	08:14 (15)	19:34	20:10		20:41	53	06:38 (13)	
10	07:34		14:48 (34)	07:06		07:20		08:00 (15)	06:23	05:35		05:11		05:45 (13)	
	16:35	34	15:22 (34)	17:17		18:56	12	08:12 (15)	19:35	20:11		20:41	54	06:39 (13)	
11	07:34		14:48 (34)	07:05		07:18		08:12 (15)	06:21	05:34		05:11		05:45 (13)	
	16:36	33	15:21 (34)	17:19		18:57			19:36	20:12		20:42	54	06:39 (13)	
12	07:33		14:50 (34)	07:03		07:16			06:19	05:33		05:10		05:44 (13)	
	16:38	31	15:21 (34)	17:20		18:58			19:38	20:14		20:43	55	06:39 (13)	
13	07:33		14:51 (34)	07:02		07:15			06:17	05:31		05:10		05:44 (13)	
	16:39	29	15:20 (34)	17:21		19:00			19:39	20:15		20:43	55	06:39 (13)	
14	07:32		14:53 (34)	07:00		07:13			06:16	05:30		05:10		05:45 (13)	
	16:40	27	15:20 (34)	17:23		19:01			19:40	20:16		20:44	55	06:40 (13)	
15	07:32		14:54 (34)	06:59		07:11			06:14	05:29		06:05 (13)		05:45 (13)	
	16:41	25	15:19 (34)	17:24		19:02			19:41	20:17	7	06:12 (13)	20:44	55	06:40 (13)
16	07:31		14:56 (34)	06:57		07:09			06:12	05:28		06:00 (13)		05:45 (13)	
	16:42	23	15:19 (34)	17:26		19:03			19:43	20:18	17	06:17 (13)	20:45	55	06:40 (13)
17	07:31		14:58 (34)	06:56		07:07			06:10	05:27		05:58 (13)		05:45 (13)	
	16:44	19	15:17 (34)	17:27		19:05			19:44	20:19	22	06:20 (13)	20:45	55	06:40 (13)
18	07:30		15:00 (34)	06:54		07:05			06:09	05:26		05:56 (13)		05:46 (13)	
	16:45	15	15:15 (34)	17:28		19:06			19:45	20:20	26	06:22 (13)	20:46	56	06:42 (13)
19	07:29		15:04 (34)	06:53		07:03			06:07	05:25		05:54 (13)		05:46 (13)	
	16:46	8	15:12 (34)	17:30		19:07			19:46	20:22	29	06:23 (13)	20:46	56	06:42 (13)
20	07:29			06:51		07:02			06:05	05:24		05:52 (13)		05:46 (13)	
	16:48			17:31		19:09			19:48	20:23	33	06:25 (13)	20:46	56	06:42 (13)
21	07:28			06:49		07:00			06:04	05:23		05:51 (13)		05:46 (13)	
	16:49			17:33		19:10			19:49	20:24	35	06:26 (13)	20:46	56	06:42 (13)
22	07:27			06:48		06:58			06:02	05:22		05:51 (13)		05:46 (13)	
	16:50			17:34		19:11			19:50	20:25	37	06:28 (13)	20:47	56	06:42 (13)
23	07:26			06:46		06:56			06:00	05:21		05:50 (13)		05:46 (13)	
	16:52			17:35		19:12			19:51	20:26	39	06:29 (13)	20:47	56	06:42 (13)
24	07:25			06:45		07:05 (15)			05:59	05:20		05:49 (13)		05:47 (13)	
	16:53			17:37	7	07:12 (15)			19:53	20:27	41	06:30 (13)	20:47	56	06:43 (13)
25	07:25			06:43		07:04 (15)			05:57	05:19		05:48 (13)		05:47 (13)	
	16:54			17:38	12	07:16 (15)			19:54	20:28	42	06:30 (13)	20:47	55	06:42 (13)
26	07:24			06:41		07:02 (15)			05:55	05:18		05:47 (13)		05:47 (13)	
	16:56			17:40	15	07:17 (15)			19:55	20:29	44	06:31 (13)	20:47	55	06:42 (13)
27	07:23			06:40		07:00 (15)			05:54	05:18		05:47 (13)		05:48 (13)	
	16:57			17:41	18	07:18 (15)			19:56	20:30	45	06:32 (13)	20:47	55	06:43 (13)
28	07:22			06:38		06:58 (15)			05:52	05:17		05:46 (13)		05:48 (13)	
	16:59			17:42	20	07:18 (15)			19:58	20:31	47	06:33 (13)	20:47	55	06:43 (13)
29	07:21					06:45			05:51	05:16		05:46 (13)		05:48 (13)	
	17:00					19:20			19:59	20:32	47	06:33 (13)	20:47	55	06:43 (13)
30	07:20					06:43			05:49	05:16		05:46 (13)		05:48 (13)	
	17:01					19:21			20:00	20:33	48	06:34 (13)	20:47	55	06:43 (13)
31	07:19									05:15		05:45 (13)			
	17:03					19:23				20:34	49	06:34 (13)			
Potential sun hours	286		291			369			404	459			466		
Total, worst case		589		72		205				608			1629		
Sun reduction		0.41		0.48		0.51				0.56			0.59		
Oper. time red.		1.00		1.00		1.00				1.00			1.00		
Wind dir. red.		0.77		0.64		0.64				0.79			0.79		
Total reduction		0.31		0.30		0.32				0.44			0.46		
Total, real		185		22		66				268			757		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 23

Licensed user:

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 106 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (698)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:49 (13)	05:42	06:18	06:54			06:34		07:14	14:31 (34)
2	05:15	05:49 (13)	05:43	06:19	06:55			06:36		07:15	14:30 (34)
3	05:15	05:50 (13)	05:44	06:21	06:56			06:37		07:16	14:31 (34)
4	05:16	05:49 (13)	05:45	06:22	06:58			06:38		07:17	14:30 (34)
5	05:17	05:50 (13)	05:46	06:23	06:59			06:40		07:18	14:30 (34)
6	05:17	05:51 (13)	05:47	06:24	07:00			06:41		07:19	14:30 (34)
7	05:18	05:51 (13)	05:49	06:25	07:01			06:42		07:20	14:30 (34)
8	05:19	05:51 (13)	05:50	06:26	07:03			06:44		07:21	14:30 (34)
9	05:19	05:52 (13)	05:51	06:28	07:04			06:45		07:22	14:30 (34)
10	05:20	05:53 (13)	05:52	06:29	07:05			06:47		07:23	14:30 (34)
11	05:21	05:52 (13)	05:53	06:30	07:06			06:48		07:24	14:31 (34)
12	05:22	05:53 (13)	05:54	06:31	07:08			06:49		07:25	14:31 (34)
13	05:23	05:54 (13)	05:56	06:32	07:09			06:51		07:26	14:32 (34)
14	05:23	05:55 (13)	05:57	06:34	07:10			06:52		07:27	14:31 (34)
15	05:24	05:55 (13)	05:58	06:35	07:12			06:53		07:27	14:32 (34)
16	05:25	05:56 (13)	05:59	06:36	07:13			06:55		07:28	14:32 (34)
17	05:26	05:56 (13)	06:00	06:37	07:14			06:56		07:29	14:33 (34)
18	05:27	05:57 (13)	06:02	06:38	07:15			06:57		07:30	14:33 (34)
19	05:28	05:58 (13)	06:03	06:40	07:17			06:59		07:30	14:33 (34)
20	05:29	05:59 (13)	06:04	06:41	07:18			07:00		07:31	14:33 (34)
21	05:30	06:00 (13)	06:05	06:42	07:19			07:01		07:31	14:34 (34)
22	05:31	06:01 (13)	06:06	06:43	07:21			07:03		07:32	14:34 (34)
23	05:32	06:02 (13)	06:07	06:44	07:22			07:04		07:32	14:35 (34)
24	05:33	06:03 (13)	06:09	06:45	07:23			07:05		07:33	14:35 (34)
25	05:34	06:04 (13)	06:10	06:47	07:25			07:06		07:33	14:37 (34)
26	05:35	06:05 (13)	06:11	06:48	07:26			07:08		07:34	14:37 (34)
27	05:36	06:06 (13)	06:12	06:49	07:27			07:09		07:34	14:37 (34)
28	05:37	06:07 (13)	06:13	06:50	07:29			07:10		07:34	14:37 (34)
29	05:38	06:08 (13)	06:14	06:51	07:30			07:11		07:34	14:38 (34)
30	05:39	06:09 (13)	06:15	06:52	07:31			07:12		07:34	14:39 (34)
31	05:40	06:10 (13)	06:16	06:53	07:32			07:13		07:35	14:40 (34)
Potential sun hours	472	436	376	341	288	275	1253				
Total, worst case	1213			281	177						
Sun reduction	0.64			0.47	0.31						
Oper. time red.	1.00			1.00	1.00						
Wind dir. red.	0.79			0.64	0.77						
Total reduction	0.50			0.30	0.24						
Total, real	612			84	42		316				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 24

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 109 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (701)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	07:35	07:17	06:36	15:53 (34)	06:39	07:02 (15)
	16:26	17:04	17:44	16:57 (34)	19:24	07:26 (15)
2	07:35	07:16	06:34	15:53 (34)	06:37	07:02 (15)
	16:27	17:06	17:45	16:57 (34)	19:25	07:25 (15)
3	07:35	07:15	06:33	15:52 (34)	06:35	07:03 (15)
	16:28	17:07	17:46	16:56 (34)	19:26	07:25 (15)
4	07:35	07:14	06:31	15:52 (34)	06:34	07:03 (15)
	16:29	17:09	17:48	16:56 (34)	19:28	07:24 (15)
5	07:35	07:13	06:29	15:53 (34)	06:32	07:04 (15)
	16:30	17:10	17:49	16:56 (34)	19:29	07:22 (15)
6	07:35	07:11	16:18 (34)	15:53 (34)	06:30	07:05 (15)
	16:31	17:11	16:33 (34)	16:55 (34)	19:30	07:20 (15)
7	07:35	07:10	16:14 (34)	15:54 (34)	06:28	07:07 (15)
	16:32	17:13	16:38 (34)	16:54 (34)	19:31	07:18 (15)
8	07:34	07:09	16:11 (34)	16:54 (34)	06:26	05:38
	16:33	17:14	16:40 (34)	17:53 (34)	19:33	20:09
9	07:34	07:07	16:09 (34)	16:54 (34)	06:25	05:37
	16:34	17:16	16:43 (34)	17:52 (34)	19:34	20:10
10	07:34	07:06	16:06 (34)	16:55 (34)	06:23	05:35
	16:35	17:17	16:44 (34)	17:51 (34)	19:35	20:11
11	07:34	07:05	16:05 (34)	16:57 (34)	06:21	05:34
	16:36	17:19	16:46 (34)	17:51 (34)	19:36	20:12
12	07:33	07:03	16:04 (34)	16:57 (34)	06:19	05:33
	16:38	17:20	16:49 (34)	17:50 (34)	19:38	20:14
13	07:33	07:02	16:02 (34)	16:58 (34)	06:17	05:32
	16:39	17:21	16:49 (34)	17:48 (34)	19:39	20:15
14	07:32	07:00	16:01 (34)	16:59 (34)	06:16	05:30
	16:40	17:23	16:51 (34)	17:46 (34)	19:40	20:16
15	07:32	06:59	16:00 (34)	17:01 (34)	06:14	05:29
	16:41	17:24	16:52 (34)	17:44 (34)	19:41	20:17
16	07:31	06:57	15:58 (34)	17:02 (34)	06:12	05:28
	16:42	17:26	16:52 (34)	17:42 (34)	19:43	20:18
17	07:31	06:56	15:58 (34)	17:04 (34)	06:10	05:27
	16:44	17:27	16:54 (34)	17:40 (34)	19:44	20:19
18	07:30	06:54	15:57 (34)	17:07 (34)	06:09	05:26
	16:45	17:28	16:54 (34)	17:38 (34)	19:45	20:20
19	07:29	06:53	15:57 (34)	17:10 (34)	06:07	05:25
	16:46	17:30	16:56 (34)	17:35 (34)	19:46	20:22
20	07:29	06:51	15:56 (34)	17:14 (34)	06:05	05:24
	16:48	17:31	16:56 (34)	17:31 (34)	19:48	20:23
21	07:28	06:49	15:55 (34)	06:04	05:23	05:11
	16:49	17:33	16:56 (34)	19:49	20:24	20:46
22	07:27	06:48	15:55 (34)	06:02	05:22	05:11
	16:50	17:34	16:57 (34)	19:50	20:25	20:47
23	07:26	06:46	15:54 (34)	06:00	05:21	05:11
	16:52	17:35	16:57 (34)	19:51	20:26	20:47
24	07:25	06:45	15:53 (34)	06:54	05:20	05:11
	16:53	17:37	16:57 (34)	19:14	6	07:20 (15)
25	07:25	06:43	15:53 (34)	06:52	07:12 (15)	05:57
	16:54	17:38	16:58 (34)	19:15	11	07:23 (15)
26	07:24	06:41	15:53 (34)	06:50	07:10 (15)	05:55
	16:56	17:40	16:57 (34)	19:16	14	07:24 (15)
27	07:23	06:40	15:52 (34)	06:48	07:09 (15)	05:54
	16:57	17:41	16:57 (34)	19:17	17	07:26 (15)
28	07:22	06:38	15:52 (34)	06:47	07:07 (15)	05:52
	16:59	17:42	16:57 (34)	19:19	19	07:26 (15)
29	07:21		06:45	07:05 (15)	05:51	05:16
	17:00		19:20	22	07:27 (15)	19:59
30	07:20		06:43	07:03 (15)	05:49	05:16
	17:01		19:21	24	07:27 (15)	20:00
31	07:19		06:41	07:03 (15)		05:15
	17:03		19:23	23	07:26 (15)	20:34
Potential sun hours	286	291	369	404	459	466
Total, worst case		1170	1146	134		
Sun reduction		0.48	0.51	0.49		
Oper. time red.		1.00	1.00	1.00		
Wind dir. red.		0.79	0.78	0.72		
Total reduction		0.38	0.40	0.35		
Total, real		444	457	47		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 109 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (701)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42	06:18			06:54		16:36 (34)	06:34	15:36 (34)	07:14
2	05:15	05:43	06:19			06:55		16:35 (34)	06:36	15:39 (34)	07:15
3	05:15	05:44	06:21			06:56		16:34 (34)	06:37	15:41 (34)	07:16
4	05:16	05:45	06:22			06:58		16:33 (34)	06:38	15:44 (34)	07:17
5	05:17	05:46	06:23		07:04 (15)	06:59		16:31 (34)	06:40	15:48 (34)	07:18
6	05:17	05:47	06:24	10	07:14 (15)	18:31		16:30 (34)	06:41	16:02 (34)	07:19
7	05:18	05:49	06:25	15	07:16 (15)	18:30		16:30 (34)	06:42		07:20
8	05:19	05:50	06:26	18	07:17 (15)	18:28		16:30 (34)	06:44		07:21
9	05:19	05:51	06:28	20	07:18 (15)	18:26		16:30 (34)	06:45		07:22
10	05:20	05:52	06:29	22	07:18 (15)	18:24		16:30 (34)	06:47		07:23
11	05:21	05:53	06:30	23	07:18 (15)	18:22		16:30 (34)	06:48		07:24
12	05:22	05:54	06:31	23	07:19 (15)	18:21		16:30 (34)	06:49		07:25
13	05:23	05:56	06:32	23	07:18 (15)	18:19		16:30 (34)	06:51		07:26
14	05:23	05:57	06:34	22	07:17 (15)	18:15		16:30 (34)	06:52		07:27
15	05:24	05:58	06:35	20	07:16 (15)	18:14		16:30 (34)	06:53		07:28
16	05:25	05:59	06:36	18	07:15 (15)	18:12		16:30 (34)	06:55		07:29
17	05:26	06:00	06:37	15	07:14 (15)	18:10		16:30 (34)	06:56		07:30
18	05:27	06:02	06:38	12	07:12 (15)	18:08		16:30 (34)	06:57		07:31
19	05:28	06:03	06:40	7	07:08 (15)	18:07		16:30 (34)	06:59		07:32
20	05:29	06:04	06:41			18:05		16:30 (34)	07:00		07:33
21	05:30	06:05	06:42			18:03		16:30 (34)	07:01		07:34
22	05:31	06:06	06:43			18:02		16:30 (34)	07:02		07:35
23	05:32	06:07	06:44	13	17:13 (34)	18:00		16:30 (34)	07:04		07:36
24	05:33	06:09	06:45	23	17:17 (34)	17:59		16:30 (34)	07:05		07:37
25	05:34	06:10	06:47	30	17:20 (34)	17:57		16:30 (34)	07:06		07:38
26	05:35	06:11	06:48	35	17:22 (34)	17:55		16:30 (34)	07:07		07:39
27	05:36	06:12	06:49	39	17:23 (34)	17:54		16:30 (34)	07:09		07:40
28	05:37	06:13	06:50	42	17:25 (34)	17:52		16:30 (34)	07:10		07:41
29	05:38	06:15	06:52	45	17:26 (34)	17:51		16:30 (34)	07:11		07:42
30	05:40	06:16	06:53	49	17:27 (34)	17:49		16:30 (34)	07:13		07:44
31	05:41	06:17				17:48		16:30 (34)			07:45
Potential sun hours	472	436	376			341		288			275
Total, worst case			547			1807		136			
Sun reduction			0.54			0.47		0.31			
Oper. time red.			1.00			1.00		1.00			
Wind dir. red.			0.75			0.79		0.79			
Total reduction			0.41			0.37		0.25			
Total, real			223			671		33			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 112 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (704)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	08:02 (Alt 9)	07:17	16:06 (36)	06:36	15:48 (36)	06:39	05:48	05:14		
2	16:26	08:28 (Alt 9)	17:04	22	16:28 (36)	17:44	60	16:48 (36)	19:24	20:00	20:35
3	07:35	08:02 (Alt 9)	07:16	16:04 (36)	06:34	15:48 (36)	06:37	05:46	05:14		
4	16:27	08:28 (Alt 9)	17:06	27	16:31 (36)	17:45	59	16:47 (36)	19:25	20:01	20:35
5	07:35	08:03 (Alt 9)	07:15	16:02 (36)	06:33	15:49 (36)	06:35	05:45	05:13		
6	16:28	08:29 (Alt 9)	17:07	31	16:33 (36)	17:46	57	16:46 (36)	19:26	20:03	20:36
7	07:35	08:02 (Alt 9)	07:14	16:00 (36)	06:31	15:49 (36)	06:34	05:43	05:13		
8	16:29	08:29 (Alt 9)	17:09	36	16:36 (36)	17:48	56	16:45 (36)	19:28	20:04	20:37
9	07:35	08:03 (Alt 9)	07:13	15:58 (36)	06:29	15:51 (36)	06:32	05:42	05:12		
10	16:30	08:29 (Alt 9)	17:10	39	16:37 (36)	17:49	53	16:44 (36)	19:29	20:05	20:38
11	07:35	08:04 (Alt 9)	07:11	15:57 (36)	06:27	15:51 (36)	06:30	05:41	05:12		
12	16:31	08:30 (Alt 9)	17:11	42	16:39 (36)	17:50	52	16:43 (36)	19:30	20:06	20:39
13	07:35	08:05 (Alt 9)	07:10	15:56 (36)	06:25	15:52 (36)	06:28	05:39	05:12		
14	16:32	08:30 (Alt 9)	17:13	45	16:41 (36)	17:52	50	16:42 (36)	19:31	20:08	20:39
15	07:34	08:04 (Alt 9)	07:09	15:54 (36)	07:24	16:53 (36)	06:26	05:38	05:11		
16	16:33	08:30 (Alt 9)	17:14	47	16:41 (36)	18:53	47	17:40 (36)	19:33	20:09	20:40
17	07:34	08:05 (Alt 9)	07:07	15:54 (36)	07:22	16:54 (36)	06:25	05:37	05:11		
18	16:34	08:31 (Alt 9)	17:16	49	16:43 (36)	18:54	44	17:38 (36)	19:34	20:10	20:41
19	07:34	08:06 (Alt 9)	07:06	15:52 (36)	07:20	16:56 (36)	06:23	05:35	05:11		
20	16:35	08:31 (Alt 9)	17:17	52	16:44 (36)	18:56	40	17:36 (36)	19:35	20:11	20:41
21	07:33	08:06 (Alt 9)	07:05	15:52 (36)	07:18	16:58 (36)	06:21	05:34	05:11		
22	16:36	08:31 (Alt 9)	17:19	53	16:45 (36)	18:57	37	17:35 (36)	19:36	20:12	20:42
23	07:33	08:07 (Alt 9)	07:03	15:51 (36)	07:16	17:00 (36)	06:19	05:33	05:10		
24	16:38	08:31 (Alt 9)	17:20	55	16:46 (36)	18:58	33	17:33 (36)	19:38	20:14	20:43
25	07:33	08:08 (Alt 9)	07:02	15:50 (36)	07:15	17:03 (36)	06:17	05:32	05:10		
26	16:39	08:31 (Alt 9)	17:21	57	16:47 (36)	19:00	27	17:30 (36)	19:39	20:15	20:43
27	07:32	08:09 (Alt 9)	07:00	15:50 (36)	07:13	17:06 (36)	06:16	05:30	05:10		
28	16:40	08:31 (Alt 9)	17:23	58	16:48 (36)	19:01	19	17:25 (36)	19:40	20:16	20:44
29	07:32	08:09 (Alt 9)	06:59	15:49 (36)	07:11	17:15 (36)	06:14	05:29	05:10		
30	16:41	08:31 (Alt 9)	17:24	59	16:48 (36)	19:02	1	17:16 (36)	19:41	20:17	20:44
31	07:31	08:10 (Alt 9)	06:57	15:48 (36)	07:09	06:12	05:28	05:10			
32	16:43	08:30 (Alt 9)	17:26	60	16:48 (36)	19:03	19:43	20:18	20:45		
33	07:31	08:12 (Alt 9)	06:56	15:48 (36)	07:07	06:10	05:27	05:10			
34	16:44	08:31 (Alt 9)	17:27	61	16:49 (36)	19:05	19:44	20:19	20:45		
35	07:30	08:13 (Alt 9)	06:54	15:47 (36)	07:05	06:09	05:26	05:10			
36	16:45	08:30 (Alt 9)	17:28	62	16:49 (36)	19:06	19:45	20:20	20:45		
37	07:29	08:14 (Alt 9)	06:53	15:48 (36)	07:03	06:07	05:25	05:10			
38	16:46	08:29 (Alt 9)	17:30	62	16:50 (36)	19:07	19:46	20:22	20:46		
39	07:29	08:16 (Alt 9)	06:51	15:47 (36)	07:02	06:05	05:24	05:10			
40	16:48	08:28 (Alt 9)	17:31	63	16:50 (36)	19:09	19:48	20:23	20:46		
41	07:28	08:19 (Alt 9)	06:49	15:47 (36)	07:00	06:04	05:23	05:11			
42	16:49	08:26 (Alt 9)	17:33	62	16:49 (36)	19:10	19:49	20:24	20:46		
43	07:27		06:48	15:47 (36)	06:58	06:02	05:22	05:11			
44	16:50		17:34	63	16:50 (36)	19:11	19:50	20:25	20:47		
45	07:26		06:46	15:47 (36)	06:56	06:00	05:21	05:11			
46	16:52		17:35	63	16:50 (36)	19:12	19:51	20:26	20:47		
47	07:25		06:45	15:46 (36)	06:54	05:59	05:20	05:11			
48	16:53		17:37	63	16:49 (36)	19:14	19:53	20:27	20:47		
49	07:25		06:43	15:47 (36)	06:52	05:57	05:19	05:12			
50	16:54		17:38	63	16:50 (36)	19:15	19:54	20:28	20:47		
51	07:24		06:41	15:47 (36)	06:50	05:55	05:18	05:12			
52	16:56		17:40	62	16:49 (36)	19:16	19:55	20:29	20:47		
53	07:23		06:40	15:47 (36)	06:48	05:54	05:18	05:12			
54	16:57		17:41	61	16:48 (36)	19:17	19:56	20:30	20:47		
55	07:22		06:38	15:47 (36)	06:47	05:52	05:17	05:13			
56	16:59		17:42	61	16:48 (36)	19:19	19:58	20:31	20:47		
57	07:21				06:45	05:51	05:16	05:13			
58	17:00				19:20	19:59	20:32	20:47			
59	07:20				06:43	05:49	05:16	05:14			
60	17:01				19:21	20:00	20:33	20:47			
61	07:18	16:11 (36)			06:41		05:15				
62	17:03	16:24 (36)			19:23		20:34				
63	Potential sun hours	286	291	369	404	459	466				
64	Total, worst case	478	1478	635							
65	Sun reduction	0.41	0.48	0.51							
66	Oper. time red.	1.00	1.00	1.00							
67	Wind dir. red.	0.53	0.79	0.79							
68	Total reduction	0.21	0.37	0.40							
69	Total, real	101	552	252							

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 27

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 112 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (704)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42	06:18			06:54		16:40 (36)	06:34	15:22 (36)	07:14
	20:47	20:25	19:35			18:39	30	17:10 (36)	16:46	16:13 (36)	16:18
2	05:15	05:43	06:19			06:55		16:37 (36)	06:36	15:24 (36)	07:15
	20:47	20:24	19:33			18:37	35	17:12 (36)	16:45	16:13 (36)	16:17
3	05:15	05:44	06:21			06:56		16:35 (36)	06:37	15:24 (36)	07:16
	20:47	20:23	19:32			18:35	39	17:14 (36)	16:44	16:11 (36)	16:17
4	05:16	05:45	06:22			06:58		16:33 (36)	06:38	15:26 (36)	07:17
	20:47	20:22	19:30			18:33	42	17:15 (36)	16:42	16:10 (36)	16:17
5	05:17	05:46	06:23			06:59		16:31 (36)	06:40	15:27 (36)	07:18
	20:46	20:20	19:28			18:31	45	17:16 (36)	16:41	16:09 (36)	16:16
6	05:17	05:47	06:24			07:00		16:29 (36)	06:41	15:28 (36)	07:19
	20:46	20:19	19:26			18:30	48	17:17 (36)	16:40	16:07 (36)	16:16
7	05:18	05:49	06:25			07:01		16:28 (36)	06:42	15:30 (36)	07:20
	20:46	20:18	19:24			18:28	50	17:18 (36)	16:38	16:05 (36)	16:16
8	05:19	05:50	06:26			07:03		16:26 (36)	06:44	15:32 (36)	07:21
	20:45	20:16	19:22			18:26	53	17:19 (36)	16:37	16:03 (36)	16:16
9	05:19	05:51	06:28			07:04		16:24 (36)	06:45	15:35 (36)	07:22
	20:45	20:15	19:21			18:24	55	17:19 (36)	16:36	16:01 (36)	16:16
10	05:20	05:52	06:29			07:05		16:24 (36)	06:47	15:38 (36)	07:23
	20:44	20:13	19:19			18:22	56	17:20 (36)	16:35	15:58 (36)	16:16
11	05:21	05:53	06:30			07:06		16:23 (36)	06:48	15:43 (36)	07:24
	20:44	20:12	19:17			18:21	57	17:20 (36)	16:34	15:54 (36)	16:16
12	05:22	05:54	06:31			07:08		16:21 (36)	06:49	15:54 (36)	16:16
	20:43	20:10	19:15			18:19	59	17:20 (36)	16:32	16:16	16:16
13	05:23	05:56	06:32			07:09		16:21 (36)	06:51	16:16	16:16
	20:43	20:09	19:13			18:17	60	17:21 (36)	16:31	16:16	16:16
14	05:23	05:57	06:34			07:10		16:20 (36)	06:52	16:16	16:16
	20:42	20:07	19:11			18:15	61	17:21 (36)	16:30	16:16	16:16
15	05:24	05:58	06:35			07:12		16:19 (36)	06:53	16:16	16:16
	20:42	20:06	19:09			18:14	62	17:21 (36)	16:29	16:16	16:16
16	05:25	05:59	06:36			07:13		16:19 (36)	06:55	16:16	16:16
	20:41	20:04	19:07			18:12	62	17:21 (36)	16:28	16:16	16:16
17	05:26	06:00	06:37			07:14		16:19 (36)	06:56	16:16	16:16
	20:40	20:03	19:05			18:10	62	17:21 (36)	16:27	16:16	16:16
18	05:27	06:02	06:38			07:15		16:18 (36)	06:57	16:16	16:16
	20:39	20:01	19:04			18:08	63	17:21 (36)	16:26	16:16	16:16
19	05:28	06:03	06:40			07:17		16:18 (36)	06:59	16:16	16:16
	20:39	19:58	19:02			18:07	63	17:21 (36)	16:25	16:16	16:16
20	05:29	06:04	06:41			07:18		16:18 (36)	07:00	16:16	16:16
	20:38	19:56	19:00			18:05	62	17:20 (36)	16:25	16:16	16:16
21	05:30	06:05	06:42			07:19		16:17 (36)	07:01	16:16	16:16
	20:37	19:55	18:58			18:03	63	17:20 (36)	16:24	16:16	16:16
22	05:31	06:06	06:43			07:21		16:18 (36)	07:03	16:16	16:16
	20:36	19:53	18:56			18:02	62	17:20 (36)	16:23	16:16	16:16
23	05:32	06:07	06:44			07:22		16:17 (36)	07:04	16:16	16:16
	20:35	19:51	18:54			18:00	62	17:19 (36)	16:22	16:16	16:16
24	05:33	06:09	06:45			07:23		16:18 (36)	07:05	16:16	16:16
	20:34	19:49	18:52			17:59	61	17:19 (36)	16:21	16:16	16:16
25	05:34	06:10	06:47			07:25		16:18 (36)	07:06	16:16	16:16
	20:33	19:48	18:50			17:57	60	17:18 (36)	16:21	16:16	16:16
26	05:35	06:11	06:48			07:26		16:18 (36)	07:08	16:16	16:16
	20:32	19:46	18:48			17:55	59	17:17 (36)	16:20	16:16	16:16
27	05:36	06:12	06:49			07:27		16:19 (36)	07:09	16:16	16:16
	20:31	19:44	18:46			17:54	58	17:17 (36)	16:20	16:16	16:16
28	05:37	06:13	06:50			07:29		16:19 (36)	07:10	16:16	16:16
	20:30	19:42	18:45			17:52	57	17:16 (36)	16:19	16:16	16:16
29	05:38	06:15	06:52			07:30		16:20 (36)	07:11	16:16	16:16
	20:29	19:41	18:43	15	17:04 (36)	17:51	56	17:16 (36)	16:19	16:16	16:16
30	05:40	06:16	06:53			07:31		16:20 (36)	07:13	16:16	16:16
	20:28	19:39	18:41	24	17:08 (36)	17:49	55	17:15 (36)	16:18	16:16	16:16
31	05:41	06:17				07:33		16:22 (36)		16:16	16:16
	20:27	19:37				17:48	53	17:15 (36)		16:16	16:16
Potential sun hours	472	436	376			341		288		275	
Total, worst case			39			1710		576		794	
Sun reduction			0.54			0.47		0.31		0.33	
Oper. time red.			1.00			1.00		1.00		1.00	
Wind dir. red.			0.79			0.79		0.71		0.52	
Total reduction			0.42			0.37		0.22		0.17	
Total, real			16			626		124		134	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 28

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 113 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (705)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35		07:17	07:39 (Alt 9)	06:36	06:39			05:48	18:19 (36)	05:14	18:28 (36)
	16:26		17:04	17:56 (Alt 9)	17:44	19:24			20:00	67	19:26 (36)	20:35
2	07:35		07:16	07:38 (Alt 9)	06:34	06:37			05:46		18:18 (36)	05:14
	16:27		17:06	17:57 (Alt 9)	17:45	19:25			20:01	67	19:25 (36)	20:35
3	07:35		07:15	07:37 (Alt 9)	06:33	06:35			05:45		18:18 (36)	05:13
	16:28		17:07	17:58 (Alt 9)	17:46	19:26			20:03	68	19:26 (36)	20:36
4	07:35		07:14	07:36 (Alt 9)	06:31	06:34			05:43		18:18 (36)	05:13
	16:29		17:09	17:59 (Alt 9)	17:48	19:28			20:04	68	19:26 (36)	20:37
5	07:35		07:13	07:34 (Alt 9)	06:29	06:32			05:42		18:17 (36)	05:12
	16:30		17:10	17:59 (Alt 9)	17:49	19:29			20:05	69	19:26 (36)	20:38
6	07:35		07:11	07:33 (Alt 9)	06:27	06:30			05:41		18:17 (36)	05:12
	16:31		17:11	18:00 (Alt 9)	17:50	19:30			20:06	69	19:26 (36)	20:39
7	07:35		07:10	07:32 (Alt 9)	06:25	06:28			05:39		18:18 (36)	05:12
	16:32		17:13	18:01 (Alt 9)	17:52	19:31			20:07	68	19:26 (36)	20:39
8	07:34		07:09	07:32 (Alt 9)	07:24	06:26			05:38		18:17 (36)	05:11
	16:33		17:14	18:01 (Alt 9)	18:53	19:33			20:09	69	19:26 (36)	20:40
9	07:34		07:07	07:32 (Alt 9)	07:22	06:25			05:37		18:17 (36)	05:11
	16:34		17:16	18:01 (Alt 9)	18:54	19:34			20:10	69	19:26 (36)	20:41
10	07:34		07:06	07:32 (Alt 9)	07:20	06:23			05:35		18:17 (36)	05:11
	16:35		17:17	18:00 (Alt 9)	18:56	19:35			20:11	69	19:26 (36)	20:41
11	07:33		07:05	07:32 (Alt 9)	07:18	06:21			05:34		18:18 (36)	05:11
	16:36		17:19	18:01 (Alt 9)	18:57	19:36			20:12	68	19:26 (36)	20:42
12	07:33		07:03	07:33 (Alt 9)	07:16	06:19		18:49 (36)	05:33		18:18 (36)	05:10
	16:38		17:20	18:01 (Alt 9)	18:58	19:38	13	19:02 (36)	20:13	68	19:26 (36)	20:43
13	07:33		07:02	07:33 (Alt 9)	07:15	06:17		18:44 (36)	05:32		18:17 (36)	05:10
	16:39		17:21	18:00 (Alt 9)	19:00	19:39	24	19:08 (36)	20:15	68	19:25 (36)	20:43
14	07:32		07:00	07:34 (Alt 9)	07:13	06:16		18:40 (36)	05:30		18:18 (36)	05:10
	16:40		17:23	18:00 (Alt 9)	19:01	19:40	31	19:11 (36)	20:16	67	19:25 (36)	20:44
15	07:32		06:59	07:35 (Alt 9)	07:11	06:14		18:37 (36)	05:29		18:18 (36)	05:10
	16:41		17:24	18:01 (Alt 9)	19:02	19:41	36	19:13 (36)	20:17	67	19:25 (36)	20:44
16	07:31		06:57	07:36 (Alt 9)	07:09	06:12		18:34 (36)	05:28		18:18 (36)	05:10
	16:43		17:26	18:01 (Alt 9)	19:03	19:43	41	19:15 (36)	20:18	66	19:24 (36)	20:45
17	07:31		06:56	07:38 (Alt 9)	07:07	06:10		18:33 (36)	05:27		18:19 (36)	05:10
	16:44		17:27	18:02 (Alt 9)	19:05	19:44	44	19:17 (36)	20:19	65	19:24 (36)	20:45
18	07:30		06:54	07:39 (Alt 9)	07:05	06:09		18:31 (36)	05:26		18:19 (36)	05:10
	16:45		17:28	18:03 (Alt 9)	19:06	19:45	47	19:18 (36)	20:20	65	19:24 (36)	20:45
19	07:29		06:53	07:44 (Alt 9)	07:03	06:07		18:29 (36)	05:25		18:20 (36)	05:10
	16:46		17:30	18:04 (Alt 9)	19:07	19:46	50	19:19 (36)	20:22	64	19:24 (36)	20:46
20	07:29		06:51		07:02	06:05		18:28 (36)	05:24		18:20 (36)	05:10
	16:48		17:31		19:09	19:48	52	19:20 (36)	20:23	63	19:23 (36)	20:46
21	07:28		06:49		07:00	06:04		18:26 (36)	05:23		18:20 (36)	05:11
	16:49		17:33		19:10	19:49	55	19:21 (36)	20:24	63	19:23 (36)	20:46
22	07:27		06:48		06:58	06:02		18:24 (36)	05:22		18:22 (36)	05:11
	16:50		17:34		19:11	19:50	57	19:21 (36)	20:25	61	19:23 (36)	20:47
23	07:26		06:46		06:56	06:00		18:24 (36)	05:21		18:22 (36)	05:11
	16:52		17:35		19:12	19:51	59	19:23 (36)	20:26	61	19:23 (36)	20:47
24	07:25		06:45		06:54	05:59		18:23 (36)	05:20		18:22 (36)	05:11
	16:53		17:37		19:14	19:53	60	19:23 (36)	20:27	60	19:22 (36)	20:47
25	07:25		06:43		06:52	05:57		18:22 (36)	05:19		18:23 (36)	05:12
	16:54		17:38		19:15	19:54	62	19:24 (36)	20:28	59	19:22 (36)	20:47
26	07:24		06:41		06:50	05:55		18:21 (36)	05:19		18:24 (36)	05:12
	16:56		17:40		19:16	19:55	63	19:24 (36)	20:29	58	19:22 (36)	20:47
27	07:23		06:40		06:48	05:54		18:21 (36)	05:18		18:24 (36)	05:12
	16:57		17:41		19:17	19:56	64	19:25 (36)	20:30	58	19:22 (36)	20:47
28	07:22		06:38		06:47	05:52		18:20 (36)	05:17		18:25 (36)	05:13
	16:59	2	07:46 (Alt 9)	17:42		19:19	19:58	65	19:25 (36)	20:31	56	19:21 (36)
29	07:21		07:43 (Alt 9)			06:45	05:51		18:20 (36)	05:16		18:26 (36)
	17:00	8	07:51 (Alt 9)			19:20	19:59	66	19:26 (36)	20:32	55	19:21 (36)
30	07:20		07:42 (Alt 9)			06:43	05:49		18:19 (36)	05:16		18:26 (36)
	17:01	11	07:53 (Alt 9)			19:21	20:00	66	19:25 (36)	20:33	55	19:21 (36)
31	07:18		07:41 (Alt 9)			06:41			05:15		18:26 (36)	
	17:03	14	07:55 (Alt 9)			19:23			20:34	54	19:20 (36)	
Potential sun hours	286		291			369	404		459		466	
Total, worst case	35		439				955		1984		1314	
Sun reduction	0.41		0.48				0.49		0.56		0.59	
Oper. time red.	1.00		1.00				1.00		1.00		1.00	
Wind dir. red.	0.58		0.58				0.65		0.65		0.65	
Total reduction	0.24		0.28				0.32		0.36		0.38	
Total, real	8		121				302		716		500	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 29

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 113 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (705)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December		
1	05:14		18:38 (36)	05:42		18:28 (36)	06:18	06:54		06:34	07:01 (Alt 9)	07:14	
	20:47	44	19:22 (36)	20:25	68	19:36 (36)	19:35	18:39		16:46	29	07:30 (Alt 9)	16:18
2	05:15		18:38 (36)	05:43		18:28 (36)	06:19	06:55		06:36		07:02 (Alt 9)	07:15
	20:47	44	19:22 (36)	20:24	69	19:37 (36)	19:33	18:37		16:45	29	07:31 (Alt 9)	16:17
3	05:15		18:38 (36)	05:44		18:28 (36)	06:21	06:56		06:37		07:01 (Alt 9)	07:16
	20:47	45	19:23 (36)	20:23	68	19:36 (36)	19:32	18:35		16:44	29	07:30 (Alt 9)	16:17
4	05:16		18:37 (36)	05:45		18:28 (36)	06:22	06:58		06:38		07:02 (Alt 9)	07:17
	20:47	46	19:23 (36)	20:22	68	19:36 (36)	19:30	18:33		16:42	29	07:31 (Alt 9)	16:17
5	05:17		18:37 (36)	05:46		18:27 (36)	06:23	06:59		06:40		07:03 (Alt 9)	07:18
	20:46	47	19:24 (36)	20:20	69	19:36 (36)	19:28	18:31		16:41	27	07:30 (Alt 9)	16:16
6	05:17		18:37 (36)	05:47		18:27 (36)	06:24	07:00		06:41		07:04 (Alt 9)	07:19
	20:46	48	19:25 (36)	20:19	69	19:36 (36)	19:26	18:30		16:40	25	07:29 (Alt 9)	16:16
7	05:18		18:36 (36)	05:49		18:27 (36)	06:25	07:01		06:42		07:06 (Alt 9)	07:20
	20:46	49	19:25 (36)	20:18	69	19:36 (36)	19:24	18:28		16:38	23	07:29 (Alt 9)	16:16
8	05:19		18:36 (36)	05:50		18:27 (36)	06:26	07:03		06:44		07:07 (Alt 9)	07:21
	20:45	50	19:26 (36)	20:16	68	19:35 (36)	19:22	18:26		16:37	21	07:28 (Alt 9)	16:16
9	05:19		18:36 (36)	05:51		18:27 (36)	06:28	07:04		06:45		07:09 (Alt 9)	07:22
	20:45	50	19:26 (36)	20:15	68	19:35 (36)	19:21	18:24		16:36	19	07:28 (Alt 9)	16:16
10	05:20		18:36 (36)	05:52		18:26 (36)	06:29	07:05		06:47		07:10 (Alt 9)	07:23
	20:44	51	19:27 (36)	20:13	69	19:35 (36)	19:19	18:22		16:35	17	07:27 (Alt 9)	16:16
11	05:21		18:35 (36)	05:53		18:26 (36)	06:30	07:06		06:48		07:12 (Alt 9)	07:24
	20:44	52	19:27 (36)	20:12	68	19:34 (36)	19:17	18:21		16:34	14	07:26 (Alt 9)	16:16
12	05:22		18:35 (36)	05:54		18:27 (36)	06:31	07:08		06:49		07:13 (Alt 9)	07:25
	20:43	53	19:28 (36)	20:10	67	19:34 (36)	19:15	18:19		16:32	11	07:24 (Alt 9)	16:16
13	05:23		18:35 (36)	05:56		18:27 (36)	06:32	07:09		06:51		07:15 (Alt 9)	07:26
	20:43	54	19:29 (36)	20:09	67	19:34 (36)	19:13	18:17		16:31	8	07:23 (Alt 9)	16:16
14	05:23		18:34 (36)	05:57		18:27 (36)	06:34	07:10		06:52			07:27
	20:42	55	19:29 (36)	20:07	66	19:33 (36)	19:11	18:15		16:30			16:16
15	05:24		18:34 (36)	05:58		18:27 (36)	06:35	07:12		06:53			07:27
	20:42	56	19:30 (36)	20:06	65	19:32 (36)	19:09	18:14		16:29			16:16
16	05:25		18:34 (36)	05:59		18:28 (36)	06:36	07:13		06:55			07:28
	20:41	57	19:31 (36)	20:04	64	19:32 (36)	19:07	18:12		16:28			16:16
17	05:26		18:33 (36)	06:00		18:28 (36)	06:37	07:14		06:56			07:29
	20:40	57	19:30 (36)	20:03	63	19:31 (36)	19:05	18:10		16:27			16:17
18	05:27		18:32 (36)	06:02		18:28 (36)	06:38	07:15		06:57			07:29
	20:39	59	19:31 (36)	20:01	62	19:30 (36)	19:04	18:08		16:26			16:17
19	05:28		18:32 (36)	06:03		18:28 (36)	06:40	07:17		06:59			07:30
	20:39	60	19:32 (36)	19:58	61	19:29 (36)	19:02	18:07		16:25			16:17
20	05:29		18:32 (36)	06:04		18:30 (36)	06:41	07:18		07:00			07:31
	20:38	60	19:32 (36)	19:56	58	19:28 (36)	19:00	18:05		16:25			16:18
21	05:30		18:31 (36)	06:05		18:30 (36)	06:42	07:19		07:01			07:31
	20:37	62	19:33 (36)	19:55	57	19:27 (36)	18:58	18:03		16:24			16:18
22	05:31		18:31 (36)	06:06		18:31 (36)	06:43	07:21		07:03			07:32
	20:36	62	19:33 (36)	19:53	55	19:26 (36)	18:56	18:02		16:23			16:19
23	05:32		18:31 (36)	06:08		18:32 (36)	06:44	07:22	08:12 (Alt 9)	07:04			07:32
	20:35	63	19:34 (36)	19:51	52	19:24 (36)	18:54	18:00	9	08:21 (Alt 9)			16:19
24	05:33		18:30 (36)	06:09		18:33 (36)	06:45	07:23		08:09 (Alt 9)			07:33
	20:34	64	19:34 (36)	19:49	49	19:22 (36)	18:52	17:59	15	08:24 (Alt 9)			16:20
25	05:34		18:30 (36)	06:10		18:34 (36)	06:47	07:25		08:07 (Alt 9)			07:33
	20:33	64	19:34 (36)	19:48	47	19:21 (36)	18:50	17:57	19	08:26 (Alt 9)			16:20
26	05:35		18:30 (36)	06:11		18:35 (36)	06:48	07:26		08:05 (Alt 9)			07:34
	20:32	65	19:35 (36)	19:46	43	19:18 (36)	18:48	17:55	22	08:27 (Alt 9)			16:21
27	05:36		18:29 (36)	06:12		18:37 (36)	06:49	07:27		08:04 (Alt 9)			07:34
	20:31	66	19:35 (36)	19:44	40	19:17 (36)	18:46	17:54	24	08:28 (Alt 9)			16:22
28	05:37		18:29 (36)	06:13		18:39 (36)	06:50	07:29		08:03 (Alt 9)			07:34
	20:30	66	19:35 (36)	19:42	36	19:15 (36)	18:45	17:52	26	08:29 (Alt 9)			16:23
29	05:38		18:29 (36)	06:15		18:41 (36)	06:52	07:30		08:03 (Alt 9)			07:34
	20:29	66	19:35 (36)	19:41	30	19:11 (36)	18:43	17:51	27	08:30 (Alt 9)			16:23
30	05:40		18:28 (36)	06:16		18:44 (36)	06:53	07:31		08:02 (Alt 9)			07:35
	20:28	67	19:35 (36)	19:39	24	19:08 (36)	18:41	17:49	28	08:30 (Alt 9)			16:24
31	05:41		18:28 (36)	06:17		18:49 (36)		07:33		08:02 (Alt 9)			07:35
	20:27	67	19:35 (36)	19:37	13	19:02 (36)		17:48	29	08:31 (Alt 9)			16:25
Potential sun hours	472		436			376		341		288			275
Total, worst case		1749		1772				199		281			
Sun reduction		0.64		0.60				0.47		0.31			
Oper. time red.		1.00		1.00				1.00		1.00			
Wind dir. red.		0.65		0.65				0.58		0.58			
Total reduction		0.41		0.39				0.27		0.18			
Total, real		721		685				54		50			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 30

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 114 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (706)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	07:17		06:36		07:42 (Alt 9)	06:39		05:48	19:15 (36)	05:14
	16:26	17:04		17:44		07:46 (Alt 9)	19:24		20:00	19:37 (36)	20:35
2	07:35	07:16		06:34			06:37		05:46	19:12 (36)	05:14
	16:27	17:06		17:45			19:25		20:01	19:37 (36)	20:35
3	07:35	07:15	07:39 (Alt 9)	06:33			06:35		05:45	19:11 (36)	05:13
	16:28	17:07	12	07:51 (Alt 9)	17:46		19:26		20:03	19:39 (36)	20:36
4	07:35	07:14	07:37 (Alt 9)	06:31			06:34		05:43	19:10 (36)	05:13
	16:29	17:09	17	07:54 (Alt 9)	17:48		19:28		20:04	19:40 (36)	20:37
5	07:35	07:13	07:34 (Alt 9)	06:29			06:32		05:42	19:09 (36)	05:12
	16:30	17:10	22	07:56 (Alt 9)	17:49		19:29		20:05	19:41 (36)	20:38
6	07:35	07:11	07:33 (Alt 9)	06:27			06:30		05:41	19:08 (36)	05:12
	16:31	17:11	25	07:58 (Alt 9)	17:50		19:30		20:06	19:42 (36)	20:39
7	07:35	07:10	07:32 (Alt 9)	06:25			06:28		05:39	19:08 (36)	05:12
	16:32	17:13	27	07:59 (Alt 9)	17:52		19:31		20:07	19:44 (36)	20:39
8	07:34	07:09	07:30 (Alt 9)	07:24			06:26		05:38	19:06 (36)	05:11
	16:33	17:14	30	08:00 (Alt 9)	18:53		19:33		20:09	19:44 (36)	20:40
9	07:34	07:07	07:30 (Alt 9)	07:22			06:25		05:37	19:06 (36)	05:11
	16:34	17:16	31	08:01 (Alt 9)	18:54		19:34		20:10	19:46 (36)	20:41
10	07:34	07:06	07:28 (Alt 9)	07:20			06:23		05:35	19:06 (36)	05:11
	16:35	17:17	34	08:02 (Alt 9)	18:56		19:35		20:11	19:47 (36)	20:41
11	07:33	07:05	07:28 (Alt 9)	07:18			06:21		05:34	19:05 (36)	05:11
	16:36	17:19	35	08:03 (Alt 9)	18:57		19:36		20:12	19:48 (36)	20:42
12	07:33	07:03	07:28 (Alt 9)	07:16			06:19		05:33	19:05 (36)	05:10
	16:38	17:20	36	08:04 (Alt 9)	18:58		19:38		20:13	19:49 (36)	20:43
13	07:33	07:02	07:27 (Alt 9)	07:15			06:17		05:32	19:04 (36)	05:10
	16:39	17:21	37	08:04 (Alt 9)	19:00		19:39		20:15	19:49 (36)	20:43
14	07:32	07:00	07:28 (Alt 9)	07:13			06:16		05:30	19:04 (36)	05:10
	16:40	17:23	37	08:05 (Alt 9)	19:01		19:40		20:16	19:49 (36)	20:44
15	07:32	06:59	07:27 (Alt 9)	07:11			06:14		05:29	19:04 (36)	05:10
	16:41	17:24	37	08:04 (Alt 9)	19:02		19:41		20:17	19:49 (36)	20:44
16	07:31	06:57	07:26 (Alt 9)	07:09			06:12		05:28	19:04 (36)	05:10
	16:43	17:26	38	08:04 (Alt 9)	19:03		19:43		20:18	19:49 (36)	20:45
17	07:31	06:56	07:27 (Alt 9)	07:07			06:10		05:27	19:04 (36)	05:10
	16:44	17:27	37	08:04 (Alt 9)	19:05		19:44		20:19	19:50 (36)	20:45
18	07:30	06:54	07:26 (Alt 9)	07:05			06:09		05:26	19:04 (36)	05:10
	16:45	17:28	38	08:04 (Alt 9)	19:06		19:45		20:20	19:50 (36)	20:45
19	07:29	06:53	07:27 (Alt 9)	07:03			06:07		05:25	19:04 (36)	05:10
	16:46	17:30	37	08:04 (Alt 9)	19:07		19:46		20:22	19:49 (36)	20:46
20	07:29	06:51	07:27 (Alt 9)	07:02			06:05		05:24	19:04 (36)	05:10
	16:48	17:31	36	08:03 (Alt 9)	19:09		19:48		20:23	19:49 (36)	20:46
21	07:28	06:49	07:27 (Alt 9)	07:00			06:04		05:23	19:04 (36)	05:11
	16:49	17:33	35	08:02 (Alt 9)	19:10		19:49		20:24	19:49 (36)	20:46
22	07:27	06:48	07:28 (Alt 9)	06:58			06:02		05:22	19:05 (36)	05:11
	16:50	17:34	34	08:02 (Alt 9)	19:11		19:50		20:25	19:50 (36)	20:47
23	07:26	06:46	07:29 (Alt 9)	06:56			06:00		05:21	19:05 (36)	05:11
	16:52	17:35	32	08:01 (Alt 9)	19:12		19:51		20:26	19:50 (36)	20:47
24	07:25	06:45	07:29 (Alt 9)	06:54			05:59		05:20	19:05 (36)	05:11
	16:53	17:37	30	07:59 (Alt 9)	19:14		19:53		20:27	19:49 (36)	20:47
25	07:25	06:43	07:31 (Alt 9)	06:52			05:57		05:19	19:05 (36)	05:12
	16:54	17:38	28	07:59 (Alt 9)	19:15		19:54		20:28	19:49 (36)	20:47
26	07:24	06:41	07:32 (Alt 9)	06:50			05:55		05:19	19:07 (36)	05:12
	16:56	17:40	25	07:57 (Alt 9)	19:16		19:55		20:29	19:50 (36)	20:47
27	07:23	06:39	07:34 (Alt 9)	06:48			05:54		05:18	19:07 (36)	05:12
	16:57	17:41	20	07:54 (Alt 9)	19:17		19:56		20:30	19:49 (36)	20:47
28	07:22	06:38	07:36 (Alt 9)	06:47			05:52	19:23 (36)	05:17	19:07 (36)	05:13
	16:59	17:42	15	07:51 (Alt 9)	19:19		19:58	10	19:33 (36)	19:49 (36)	20:47
29	07:21			06:45			05:51		19:19 (36)	19:08 (36)	05:13
	17:00			19:20			19:59	16	19:35 (36)	19:49 (36)	20:47
30	07:20			06:43			05:49		19:16 (36)	19:08 (36)	05:14
	17:01			19:21			20:00	19	19:35 (36)	19:49 (36)	20:47
31	07:18			06:41					05:15	19:08 (36)	
	17:03			19:22					20:34	19:48 (36)	
Potential sun hours	286	291		369			404		459		466
Total, worst case		785		4			45		1247		976
Sun reduction		0.48		0.51			0.49		0.56		0.59
Oper. time red.		1.00		1.00			1.00		1.00		1.00
Wind dir. red.		0.59		0.59			0.62		0.62		0.62
Total reduction		0.28		0.30			0.30		0.34		0.36
Total, real		221		1			14		429		354

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 31

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 114 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (706)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	19:18 (36)	05:42	19:15 (36)	06:18	06:54		06:34		06:58 (Alt 9)	07:14
2	05:15	19:18 (36)	05:43	19:16 (36)	06:19	06:55		06:36		07:00 (Alt 9)	07:15
3	05:15	19:18 (36)	05:44	19:16 (36)	06:21	06:56		06:37		07:00 (Alt 9)	07:16
4	05:16	19:17 (36)	05:45	19:17 (36)	06:22	06:58		06:38		07:02 (Alt 9)	07:17
5	05:17	19:18 (36)	05:46	19:17 (36)	06:23	06:59		06:40		07:03 (Alt 9)	07:18
6	05:17	19:18 (36)	05:47	19:17 (36)	06:24	07:00		06:41		07:04 (Alt 9)	07:19
7	05:18	19:17 (36)	05:49	19:18 (36)	06:25	07:01		06:42		07:07 (Alt 9)	07:20
8	05:19	19:17 (36)	05:50	19:19 (36)	06:26	07:03		06:44		07:09 (Alt 9)	07:21
9	05:19	19:17 (36)	05:51	19:19 (36)	06:28	07:04		06:45		07:20 (Alt 9)	07:22
10	05:20	19:17 (36)	05:52	19:20 (36)	06:29	07:05		06:47			07:23
11	05:21	19:16 (36)	05:53	19:21 (36)	06:30	07:06		06:48			07:24
12	05:22	19:16 (36)	05:54	19:24 (36)	06:31	07:08		06:49			07:25
13	05:23	19:16 (36)	05:56	19:25 (36)	06:32	07:09	08:12 (Alt 9)	06:51			07:26
14	05:23	19:16 (36)	05:57	19:28 (36)	06:34	07:10	08:08 (Alt 9)	06:52			07:27
15	05:24	19:16 (36)	05:58	19:32 (36)	06:35	07:12	08:05 (Alt 9)	06:53			07:27
16	05:25	19:16 (36)	05:59	19:39 (36)	06:36	07:13	08:04 (Alt 9)	06:55			07:28
17	05:26	19:15 (36)	06:00		06:37	07:14	08:02 (Alt 9)	06:56			07:29
18	05:27	19:15 (36)	06:02		06:38	07:15	08:00 (Alt 9)	06:57			07:29
19	05:28	19:15 (36)	06:03		06:40	07:17	08:00 (Alt 9)	06:59			07:30
20	05:29	19:15 (36)	06:04		06:41	07:18	07:59 (Alt 9)	07:00		15:15 (Alt 5)	07:31
21	05:30	19:15 (36)	06:05		06:42	07:19	07:58 (Alt 9)	07:01		15:16 (Alt 5)	07:31
22	05:31	19:15 (36)	06:06		06:43	07:21	07:57 (Alt 9)	07:03		15:17 (Alt 5)	07:32
23	05:32	19:15 (36)	06:07		06:44	07:22	07:57 (Alt 9)	07:04		15:18 (Alt 5)	07:32
24	05:33	19:15 (36)	06:09		06:45	07:23	07:57 (Alt 9)	07:05		15:19 (Alt 5)	07:33
25	05:34	19:15 (36)	06:10		06:47	07:25	07:56 (Alt 9)	07:06		15:20 (Alt 5)	07:33
26	05:35	19:14 (36)	06:11		06:48	07:26	07:56 (Alt 9)	07:08			07:34
27	05:36	19:14 (36)	06:12		06:49	07:27	07:57 (Alt 9)	07:09			07:34
28	05:37	19:14 (36)	06:13		06:50	07:29	07:56 (Alt 9)	07:10			07:34
29	05:38	19:15 (36)	06:15		06:52	07:30	07:57 (Alt 9)	07:11			07:34
30	05:40	19:15 (36)	06:16		06:53	07:31	07:57 (Alt 9)	07:13			07:35
31	05:41	19:15 (36)	06:17		06:54	07:32	07:57 (Alt 9)	07:14			07:35
Potential sun hours	472		436		376	341		288		275	
Total, worst case	1273		447			603		194		20	
Sun reduction	0.64		0.60			0.47		0.31		0.33	
Oper. time red.	1.00		1.00			1.00		1.00		1.00	
Wind dir. red.	0.62		0.62			0.59		0.59		0.78	
Total reduction	0.39		0.37			0.28		0.18		0.26	
Total, real	501		165			166		35		5	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 116 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (708)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35		08:04 (Alt 4)	07:17		14:32 (Alt 2)	06:36		07:36 (Alt 5)	06:39		05:14
	16:26	85	15:18 (Alt 2)	17:04	50	15:22 (Alt 2)	17:44	65	08:41 (Alt 5)	19:24		20:35
2	07:35		08:05 (Alt 4)	07:16		08:01 (Alt 5)	06:34		07:36 (Alt 5)	06:37		05:14
	16:27	85	15:18 (Alt 2)	17:06	66	15:22 (Alt 2)	17:45	64	08:40 (Alt 5)	19:25		20:35
3	07:35		08:05 (Alt 4)	07:15		07:57 (Alt 5)	06:33		07:36 (Alt 5)	06:36		05:13
	16:28	87	15:19 (Alt 2)	17:07	71	15:21 (Alt 2)	17:46	64	08:40 (Alt 5)	19:26		20:36
4	07:35		08:04 (Alt 4)	07:14		07:55 (Alt 5)	06:31		07:36 (Alt 5)	06:34		05:13
	16:29	87	15:18 (Alt 2)	17:09	73	15:20 (Alt 2)	17:48	63	08:39 (Alt 5)	19:28		20:37
5	07:35		08:04 (Alt 4)	07:13		07:52 (Alt 5)	06:29		07:37 (Alt 5)	06:32		05:12
	16:30	89	15:19 (Alt 2)	17:10	75	15:18 (Alt 2)	17:49	61	08:38 (Alt 5)	19:29		20:38
6	07:35		08:05 (Alt 4)	07:11		07:51 (Alt 5)	06:27		07:37 (Alt 5)	06:30		05:12
	16:31	89	15:20 (Alt 2)	17:11	75	15:17 (Alt 2)	17:50	60	08:37 (Alt 5)	19:30		20:39
7	07:35		08:05 (Alt 4)	07:10		07:50 (Alt 5)	06:26		07:38 (Alt 5)	06:28		05:12
	16:32	89	15:21 (Alt 2)	17:13	74	15:16 (Alt 2)	17:52	58	08:36 (Alt 5)	19:31		20:39
8	07:34		08:05 (Alt 4)	07:09		07:47 (Alt 5)	07:24		08:38 (Alt 5)	06:26		05:11
	16:33	89	15:20 (Alt 2)	17:14	74	15:13 (Alt 2)	18:53	57	09:35 (Alt 5)	19:33		20:40
9	07:34		08:05 (Alt 4)	07:07		07:47 (Alt 5)	07:22		08:38 (Alt 5)	06:25		05:11
	16:34	90	15:21 (Alt 2)	17:16	70	15:11 (Alt 2)	18:54	55	09:33 (Alt 5)	19:34		20:41
10	07:34		08:06 (Alt 4)	07:06		07:45 (Alt 5)	07:20		08:39 (Alt 5)	06:23		05:11
	16:35	90	15:22 (Alt 2)	17:17	65	15:07 (Alt 2)	18:56	52	09:31 (Alt 5)	19:35		20:41
11	07:33		08:05 (Alt 4)	07:05		07:44 (Alt 5)	07:18		08:41 (Alt 5)	06:21		05:11
	16:36	91	15:22 (Alt 2)	17:19	52	08:36 (Alt 5)	18:57	49	09:30 (Alt 5)	19:36		20:42
12	07:33		08:06 (Alt 4)	07:03		07:44 (Alt 5)	07:16		08:42 (Alt 5)	06:19		05:10
	16:38	92	15:23 (Alt 2)	17:20	54	08:38 (Alt 5)	18:58	46	09:28 (Alt 5)	19:38		20:43
13	07:33		08:06 (Alt 4)	07:02		07:42 (Alt 5)	07:15		08:43 (Alt 5)	06:17		05:10
	16:39	92	15:23 (Alt 2)	17:21	56	08:38 (Alt 5)	19:00	43	09:26 (Alt 5)	19:39		20:43
14	07:32		08:07 (Alt 4)	07:00		07:42 (Alt 5)	07:13		08:44 (Alt 5)	06:16		05:10
	16:40	92	15:24 (Alt 2)	17:23	58	08:40 (Alt 5)	19:01	40	09:24 (Alt 5)	19:40		20:44
15	07:32		08:07 (Alt 4)	06:59		07:41 (Alt 5)	07:11		08:46 (Alt 5)	06:14		05:10
	16:41	92	15:24 (Alt 2)	17:24	59	08:40 (Alt 5)	19:02	35	09:21 (Alt 5)	19:41		20:44
16	07:31		08:07 (Alt 4)	06:57		07:39 (Alt 5)	07:09		08:48 (Alt 5)	06:12		05:10
	16:43	92	15:24 (Alt 2)	17:26	61	08:40 (Alt 5)	19:03	30	09:18 (Alt 5)	19:43		20:45
17	07:31		08:08 (Alt 4)	06:56		07:39 (Alt 5)	07:07		08:51 (Alt 5)	06:10		05:10
	16:44	91	15:24 (Alt 2)	17:27	62	08:41 (Alt 5)	19:05	23	09:14 (Alt 5)	19:44		20:45
18	07:30		08:08 (Alt 4)	06:54		07:38 (Alt 5)	07:05		08:56 (Alt 5)	06:09		05:10
	16:45	90	15:24 (Alt 2)	17:29	63	08:41 (Alt 5)	19:06	13	09:09 (Alt 5)	19:45		20:45
19	07:29		08:08 (Alt 4)	06:53		07:38 (Alt 5)	07:03			06:07		05:10
	16:46	90	15:24 (Alt 2)	17:30	64	08:42 (Alt 5)	19:07			19:46		20:46
20	07:29		08:09 (Alt 4)	06:51		07:38 (Alt 5)	07:02			06:05		05:10
	16:48	90	15:25 (Alt 2)	17:31	64	08:42 (Alt 5)	19:09			19:48		20:46
21	07:28		08:10 (Alt 4)	06:49		07:37 (Alt 5)	07:00			06:04		05:11
	16:49	88	15:25 (Alt 2)	17:33	65	08:42 (Alt 5)	19:10			19:49		20:46
22	07:27		08:10 (Alt 4)	06:48		07:37 (Alt 5)	06:58			06:02		05:11
	16:50	88	15:25 (Alt 2)	17:34	66	08:43 (Alt 5)	19:11			19:50		20:47
23	07:26		08:11 (Alt 4)	06:46		07:36 (Alt 5)	06:56			06:00		05:11
	16:52	85	15:25 (Alt 2)	17:35	67	08:43 (Alt 5)	19:12			19:51		20:47
24	07:25		08:12 (Alt 4)	06:45		07:36 (Alt 5)	06:54			05:59		05:11
	16:53	84	15:25 (Alt 2)	17:37	66	08:42 (Alt 5)	19:14			19:53		20:47
25	07:25		08:13 (Alt 4)	06:43		07:36 (Alt 5)	06:52			05:57		05:12
	16:55	81	15:25 (Alt 2)	17:38	67	08:43 (Alt 5)	19:15			19:54		20:47
26	07:24		08:14 (Alt 4)	06:41		07:36 (Alt 5)	06:50			05:56		05:12
	16:56	79	15:25 (Alt 2)	17:40	66	08:42 (Alt 5)	19:16			19:55		20:47
27	07:23		08:15 (Alt 4)	06:40		07:36 (Alt 5)	06:49			05:54		05:12
	16:57	77	15:25 (Alt 2)	17:41	66	08:42 (Alt 5)	19:17			19:56		20:47
28	07:22		08:17 (Alt 4)	06:38		07:36 (Alt 5)	06:47			05:52		05:13
	16:59	71	15:24 (Alt 2)	17:42	66	08:42 (Alt 5)	19:19			19:58		20:47
29	07:21		08:20 (Alt 4)				06:45			05:51		05:13
	17:00	66	15:24 (Alt 2)				19:20			19:59		20:47
30	07:20		14:30 (Alt 2)				06:43			05:49		05:14
	17:02	54	15:24 (Alt 2)				19:21			20:00		20:47
31	07:19		14:32 (Alt 2)				06:41					
	17:03	52	15:24 (Alt 2)				19:23			20:34		
Potential sun hours	286			291			369			404		466
Total, worst case	2617			1815			878					
Sun reduction	0.41			0.48			0.51					
Oper. time red.	1.00			1.00			1.00					
Wind dir. red.	0.70			0.61			0.57					
Total reduction	0.29			0.30			0.30					
Total, real	758			539			259					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
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Project:

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Licensed user:

EDR

217 Montgomery St.

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 116 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (708)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14	05:42	06:18	06:54	08:21 (Alt 5)	06:34
2	20:47	20:25	19:35	18:39	09:06 (Alt 5)	16:47
3	05:15	05:43	06:19	06:55	08:19 (Alt 5)	06:36
4	20:47	20:24	19:33	18:37	09:07 (Alt 5)	16:45
5	05:15	05:44	06:21	06:56	08:18 (Alt 5)	06:37
6	20:47	20:23	19:32	18:35	09:09 (Alt 5)	16:44
7	05:16	05:45	06:22	06:58	08:17 (Alt 5)	06:38
8	20:47	20:22	19:30	18:33	09:10 (Alt 5)	16:42
9	05:17	05:46	06:23	06:59	08:15 (Alt 5)	06:40
10	20:46	20:20	19:28	18:32	09:11 (Alt 5)	16:41
11	05:17	05:48	06:24	07:00	08:15 (Alt 5)	06:41
12	20:46	20:19	19:26	18:30	09:12 (Alt 5)	16:40
13	05:18	05:49	06:25	07:01	08:13 (Alt 5)	06:42
14	20:46	20:18	19:24	18:28	09:13 (Alt 5)	16:38
15	05:19	05:50	06:27	07:03	08:12 (Alt 5)	06:44
16	20:45	20:16	19:22	18:26	09:13 (Alt 5)	16:37
17	05:19	05:51	06:28	07:04	08:11 (Alt 5)	06:45
18	20:45	20:15	19:21	18:24	09:13 (Alt 5)	16:36
19	05:20	05:52	06:29	07:05	08:11 (Alt 5)	06:47
20	20:44	20:13	19:19	18:22	09:14 (Alt 5)	16:35
21	05:21	05:53	06:30	07:06	08:10 (Alt 5)	06:48
22	20:44	20:12	19:17	18:21	09:14 (Alt 5)	16:34
23	05:22	05:55	06:31	07:08	08:09 (Alt 5)	06:49
24	20:43	20:10	19:15	18:19	09:14 (Alt 5)	16:32
25	05:23	05:56	06:32	07:09	08:09 (Alt 5)	06:51
26	20:43	20:09	19:13	18:17	09:15 (Alt 5)	16:31
27	05:24	05:57	06:34	07:10	08:09 (Alt 5)	06:52
28	20:42	20:07	19:11	18:15	09:15 (Alt 5)	16:30
29	05:24	05:58	06:35	07:12	08:08 (Alt 5)	06:53
30	20:42	20:06	19:09	18:14	09:14 (Alt 5)	16:29
31	05:25	05:59	06:36	07:13	08:08 (Alt 5)	06:55
32	20:41	20:04	19:07	18:12	09:15 (Alt 5)	16:28
33	05:26	06:00	06:37	07:14	08:08 (Alt 5)	06:56
34	20:40	20:03	19:05	18:10	09:14 (Alt 5)	16:27
35	05:27	06:02	06:38	07:15	08:07 (Alt 5)	06:57
36	20:39	20:01	19:04	18:08	09:14 (Alt 5)	16:26
37	05:28	06:03	06:40	07:17	08:08 (Alt 5)	06:59
38	20:39	19:58	19:02	18:07	09:14 (Alt 5)	16:25
39	05:29	06:04	06:41	07:18	08:08 (Alt 5)	07:00
40	20:38	19:56	19:00	18:05	09:13 (Alt 5)	16:25
41	05:30	06:05	06:42	07:19	08:07 (Alt 5)	07:01
42	20:37	19:55	18:58	18:03	09:13 (Alt 5)	16:24
43	05:31	06:06	06:43	07:21	08:08 (Alt 5)	07:03
44	20:36	19:53	18:56	18:02	09:13 (Alt 5)	16:23
45	05:32	06:08	06:44	07:22	08:08 (Alt 5)	07:04
46	20:35	19:51	18:54	18:00	09:12 (Alt 5)	16:22
47	05:33	06:09	06:46	07:23	08:09 (Alt 5)	07:05
48	20:34	19:49	18:52	17:59	09:12 (Alt 5)	16:22
49	05:34	06:10	06:47	07:25	08:09 (Alt 5)	07:06
50	20:33	19:48	18:50	17:57	09:11 (Alt 5)	16:21
51	05:35	06:11	06:48	08:35 (Alt 5)	08:10 (Alt 5)	07:08
52	20:32	19:46	18:48	17:55	09:11 (Alt 5)	16:20
53	05:36	06:12	06:49	08:30 (Alt 5)	08:10 (Alt 5)	07:09
54	20:31	19:44	18:46	17:54	09:10 (Alt 5)	16:20
55	05:37	06:13	06:50	08:28 (Alt 5)	08:11 (Alt 5)	07:10
56	20:30	19:42	18:45	17:52	09:08 (Alt 5)	16:19
57	05:38	06:15	06:52	08:25 (Alt 5)	08:12 (Alt 5)	07:11
58	20:29	19:41	18:43	17:51	09:08 (Alt 5)	16:19
59	05:40	06:16	06:53	08:23 (Alt 5)	08:12 (Alt 5)	07:13
60	20:28	19:39	18:41	17:49	09:06 (Alt 5)	16:18
61	05:41	06:17		07:33	08:14 (Alt 5)	
62	20:27	19:37		17:48	09:06 (Alt 5)	
Potential sun hours	472	436	376	341	288	275
Total, worst case			169	1874	2346	2612
Sun reduction			0.54	0.47	0.31	0.33
Oper. time red.			1.00	1.00	1.00	1.00
Wind dir. red.			0.57	0.57	0.69	0.70
Total reduction			0.31	0.27	0.22	0.23
Total, real			53	510	510	611

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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Licensed user:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 150 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (739)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35		07:17	15:54 (Alt 1)	06:36		06:39	18:28 (37)	05:48	19:18 (4)	05:14	
	16:26		17:04	16:28 (Alt 1)	17:44		19:24	18:55 (37)	20:00	19:37 (4)	20:35	
2	07:35		07:16	15:54 (Alt 1)	06:34		06:37	18:26 (37)	05:46	19:16 (4)	05:14	
	16:27		17:06	16:29 (Alt 1)	17:45		19:25	18:56 (37)	20:01	19:38 (4)	20:35	
3	07:35		07:15	15:54 (Alt 1)	06:33		06:35	18:24 (37)	05:45	19:16 (4)	05:13	
	16:28		17:07	16:30 (Alt 1)	17:46		19:26	18:57 (37)	20:03	19:39 (4)	20:36	
4	07:35		07:14	15:54 (Alt 1)	06:31		06:34	18:24 (37)	05:43	19:14 (4)	05:13	
	16:29		17:08	16:31 (Alt 1)	17:48		19:27	18:59 (37)	20:04	19:40 (4)	20:37	
5	07:35		07:13	15:53 (Alt 1)	06:29		06:32	18:22 (37)	05:42	19:14 (4)	05:12	
	16:30		17:10	16:31 (Alt 1)	17:49		19:29	19:00 (37)	20:05	19:41 (4)	20:38	
6	07:35		07:11	15:53 (Alt 1)	06:27		06:30	18:21 (37)	05:40	19:14 (4)	05:12	
	16:31		17:11	16:32 (Alt 1)	17:50		19:30	19:00 (37)	20:06	19:43 (4)	20:39	
7	07:35		07:10	15:53 (Alt 1)	06:25		06:28	18:20 (37)	05:39	19:13 (4)	05:11	
	16:32		17:13	16:32 (Alt 1)	17:52		19:31	19:00 (37)	20:08	19:42 (4)	20:39	
8	07:34		07:09	15:52 (Alt 1)	07:24		06:26	18:19 (37)	05:38	19:13 (4)	05:11	
	16:33		17:14	16:32 (Alt 1)	18:53		19:33	19:00 (37)	20:09	19:43 (4)	20:40	
9	07:34		07:07	15:52 (Alt 1)	07:22		06:24	18:19 (37)	05:36	19:13 (4)	05:11	
	16:34		17:16	16:33 (Alt 1)	18:54		19:34	19:01 (37)	20:10	19:43 (4)	20:41	
10	07:34		07:06	15:52 (Alt 1)	07:20		06:23	18:18 (37)	05:35	19:13 (4)	05:11	
	16:35		17:17	16:32 (Alt 1)	18:56		19:35	19:01 (37)	20:11	19:43 (4)	20:41	
11	07:34		07:05	15:53 (Alt 1)	07:18		06:21	18:17 (37)	05:34	19:13 (4)	05:10	
	16:36		17:18	16:33 (Alt 1)	18:57		19:36	19:01 (37)	20:12	19:43 (4)	20:42	
12	07:33		07:03	15:53 (Alt 1)	07:16		06:19	18:17 (37)	05:33	19:12 (4)	05:10	
	16:37		17:20	16:33 (Alt 1)	18:58		19:38	19:00 (37)	20:14	19:42 (4)	20:43	
13	07:33		07:02	15:53 (Alt 1)	07:15		06:17	18:16 (37)	05:31	19:13 (4)	05:10	
	16:39		17:21	16:32 (Alt 1)	18:59		19:39	19:00 (37)	20:15	19:42 (4)	20:43	
14	07:32		07:00	15:54 (Alt 1)	07:13		06:15	18:17 (37)	05:30	19:13 (4)	05:10	
	16:40		17:23	16:32 (Alt 1)	19:01		19:40	19:00 (37)	20:16	19:42 (4)	20:44	
15	07:32		06:59	15:54 (Alt 1)	07:11		06:14	18:16 (37)	05:29	19:13 (4)	05:10	
	16:41		17:24	16:32 (Alt 1)	19:02		19:41	19:00 (37)	20:17	19:42 (4)	20:44	
16	07:31		06:57	15:54 (Alt 1)	07:09		06:12	18:16 (37)	05:28	19:14 (4)	05:10	
	16:42		17:26	16:30 (Alt 1)	19:03		19:43	18:59 (37)	20:18	19:42 (4)	20:45	
17	07:31		06:56	15:55 (Alt 1)	07:07		06:10	18:17 (37)	05:27	19:14 (4)	05:10	
	16:44		17:27	16:30 (Alt 1)	19:05		19:44	18:59 (37)	20:19	19:41 (4)	20:45	
18	07:30		06:54	15:56 (Alt 1)	07:05		06:09	18:17 (37)	05:26	19:15 (4)	05:10	
	16:45		17:28	16:29 (Alt 1)	19:06		19:45	18:58 (37)	20:20	19:41 (4)	20:46	
19	07:29		06:53	15:58 (Alt 1)	07:03		06:07	18:17 (37)	05:25	19:16 (4)	05:10	
	16:46		17:30	16:28 (Alt 1)	19:07		19:46	18:57 (37)	20:22	19:40 (4)	20:46	
20	07:29		06:51	15:59 (Alt 1)	07:02		06:05	18:18 (37)	05:24	19:16 (4)	05:10	
	16:47		17:31	16:27 (Alt 1)	19:08		19:48	18:56 (37)	20:23	19:39 (4)	20:46	
21	07:28		06:49	16:00 (Alt 1)	07:00		06:03	18:19 (37)	05:23	19:17 (4)	05:10	
	16:49		17:33	16:25 (Alt 1)	19:10		19:49	18:55 (37)	20:24	19:38 (4)	20:46	
22	07:27		06:48	16:03 (Alt 1)	06:58		06:02	18:19 (37)	05:22	19:18 (4)	05:11	
	16:50		17:34	16:23 (Alt 1)	19:11		19:50	18:53 (37)	20:25	19:37 (4)	20:47	
23	07:26		06:46	16:05 (Alt 1)	06:56		06:00	18:21 (37)	05:21	19:20 (4)	05:11	
	16:52		17:35	16:20 (Alt 1)	19:12		19:51	18:53 (37)	20:26	19:37 (4)	20:47	
24	07:25		06:45		06:54		05:58	18:21 (37)	05:20	19:21 (4)	05:11	
	16:53		17:37		19:14		19:53	18:51 (37)	20:27	19:36 (4)	20:47	
25	07:25		06:43		06:52		05:57	18:23 (37)	05:19	19:23 (4)	05:11	
	16:54	12	16:16 (Alt 1)		17:38		19:54	18:49 (37)	20:28	11	19:34 (4)	20:47
26	07:24		06:41		06:50		05:55	18:25 (37)	05:18		19:25 (4)	05:12
	16:56	18	16:19 (Alt 1)		17:39		19:55	18:47 (37)	20:29	7	19:32 (4)	20:47
27	07:23		06:39		06:48		05:54	18:28 (37)	05:18		05:12	
	16:57	21	16:21 (Alt 1)		17:41		19:56	18:45 (37)	20:30		20:47	
28	07:22		06:38		06:47		05:52	18:31 (37)	05:17		05:12	
	16:58	25	16:23 (Alt 1)		17:42		19:58	19:33 (4)	20:31		20:47	
29	07:21		06:37		06:45		05:51	19:22 (4)	05:16		05:13	
	17:00	27	16:24 (Alt 1)		19:20		19:59	19:35 (4)	20:32		20:47	
30	07:20		06:36		06:43		05:49	19:19 (4)	05:15		05:13	
	17:01	29	16:26 (Alt 1)		19:21	15	18:50 (37)	20:00	16	19:35 (4)	20:33	20:47
31	07:18		06:35		06:41		05:48	18:31 (37)				
	17:03	31	16:27 (Alt 1)		19:22	22	18:53 (37)					
Potential sun hours	286		291		369		404		459		466	
Total, worst case	163		796		37		1034		630			
Sun reduction	0.41		0.48		0.51		0.49		0.56			
Oper. time red.	1.00		1.00		1.00		1.00		1.00			
Wind dir. red.	0.79		0.79		0.70		0.70		0.62			
Total reduction	0.33		0.39		0.36		0.35		0.35			
Total, real	54		307		13		357		222			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 35

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 150 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (739)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42		19:23 (4)	06:18	18:16 (37)	06:54	06:34		15:22 (Alt 1)	07:14
	20:47	20:25	30	19:53 (4)	19:35	19:00 (37)	18:39	16:46	40	16:02 (Alt 1)	16:17
2	05:14	05:43		19:23 (4)	06:19	18:16 (37)	06:55	06:36		15:22 (Alt 1)	07:15
	20:47	20:24	30	19:53 (4)	19:33	18:59 (37)	18:37	16:45	40	16:02 (Alt 1)	16:17
3	05:15	05:44		19:22 (4)	06:20	18:16 (37)	06:56	06:37		15:22 (Alt 1)	07:16
	20:47	20:23	31	19:53 (4)	19:32	18:58 (37)	18:35	16:43	40	16:02 (Alt 1)	16:17
4	05:16	05:45		19:23 (4)	06:22	18:17 (37)	06:58	06:38		15:23 (Alt 1)	07:17
	20:47	20:22	31	19:54 (4)	19:30	18:58 (37)	18:33	16:42	39	16:02 (Alt 1)	16:16
5	05:16	05:46		19:23 (4)	06:23	18:17 (37)	06:59	06:40		15:23 (Alt 1)	07:18
	20:46	20:20	30	19:53 (4)	19:28	18:57 (37)	18:31	16:41	38	16:01 (Alt 1)	16:16
6	05:17	05:47		19:23 (4)	06:24	18:17 (37)	07:00	06:41		15:23 (Alt 1)	07:19
	20:46	20:19	30	19:53 (4)	19:26	18:56 (37)	18:30	16:39	38	16:01 (Alt 1)	16:16
7	05:18	05:48		19:23 (4)	06:25	18:17 (37)	07:01	06:42		15:24 (Alt 1)	07:20
	20:46	20:18	29	19:52 (4)	19:24	18:55 (37)	18:28	16:38	37	16:01 (Alt 1)	16:16
8	05:18	05:50		19:24 (4)	06:26	18:18 (37)	07:03	06:44		15:24 (Alt 1)	07:21
	20:45	20:16	26	19:50 (4)	19:22	18:53 (37)	18:26	16:37	36	16:00 (Alt 1)	16:16
9	05:19	05:51		19:24 (4)	06:28	18:18 (37)	07:04	06:45		15:25 (Alt 1)	07:22
	20:45	20:15	25	19:49 (4)	19:20	18:52 (37)	18:24	16:36	35	16:00 (Alt 1)	16:16
10	05:20	05:52		19:25 (4)	06:29	18:19 (37)	07:05	06:47		15:25 (Alt 1)	07:23
	20:44	20:13	22	19:47 (4)	19:19	18:50 (37)	18:22	16:35	33	15:58 (Alt 1)	16:16
11	05:21	05:53		19:25 (4)	06:30	18:20 (37)	07:06	06:48		15:27 (Alt 1)	07:24
	20:44	20:12	21	19:46 (4)	19:17	18:47 (37)	18:20	16:33	31	15:58 (Alt 1)	16:16
12	05:22	05:54		19:26 (4)	06:31	18:23 (37)	07:08	06:49		15:28 (Alt 1)	07:25
	20:43	20:10	18	19:44 (4)	19:15	18:46 (37)	18:19	16:32	29	15:57 (Alt 1)	16:16
13	05:22	05:55		19:28 (4)	06:32	18:26 (37)	07:09	06:51		15:29 (Alt 1)	07:26
	20:43	20:09	16	19:44 (4)	19:13	18:42 (37)	18:17	16:31	27	15:56 (Alt 1)	16:16
14	05:23	05:57		19:30 (4)	06:33	18:32 (37)	07:10	06:52		15:30 (Alt 1)	07:27
	20:42	20:07	12	19:42 (4)	19:11	18:35 (37)	18:15	16:30	25	15:55 (Alt 1)	16:16
15	05:24	05:58		18:38 (37)	06:35	07:12		06:53		15:33 (Alt 1)	07:27
	20:42	20:06	18	19:40 (4)	19:09	18:13		16:29	21	15:54 (Alt 1)	16:16
16	05:25	05:59		18:34 (37)	06:36	07:13		06:55		15:34 (Alt 1)	07:28
	20:41	20:04	18	18:52 (37)	19:07	18:12		16:28	18	15:52 (Alt 1)	16:16
17	05:26	19:36 (4)	06:00	18:31 (37)	06:37	07:14		06:56		15:38 (Alt 1)	07:29
	20:40	19:39 (4)	20:03	18:54 (37)	19:05	18:10		16:27	12	15:50 (Alt 1)	16:17
18	05:27	19:33 (4)	06:01	18:29 (37)	06:38	07:15		06:57			07:30
	20:39	19:43 (4)	20:01	18:55 (37)	19:03	18:08	9	16:48 (Alt 1)	16:26		16:17
19	05:28	19:31 (4)	06:03	18:27 (37)	06:39	07:17		06:59			07:30
	20:39	19:45 (4)	19:58	18:57 (37)	19:02	18:07	17	16:53 (Alt 1)	16:25		16:17
20	05:29	19:30 (4)	06:04	18:25 (37)	06:41	07:18		07:00			07:31
	20:38	19:46 (4)	19:56	18:58 (37)	19:00	18:05	22	16:54 (Alt 1)	16:24		16:18
21	05:30	19:29 (4)	06:05	18:25 (37)	06:42	07:19		07:01			07:31
	20:37	19:47 (4)	19:54	18:59 (37)	18:58	18:03	26	16:56 (Alt 1)	16:24		16:18
22	05:31	19:28 (4)	06:06	18:23 (37)	06:43	07:21		07:03			07:32
	20:36	19:48 (4)	19:53	19:00 (37)	18:56	18:02	29	16:58 (Alt 1)	16:23		16:19
23	05:32	19:27 (4)	06:07	18:22 (37)	06:44	07:22		07:04			07:32
	20:35	19:49 (4)	19:51	19:00 (37)	18:54	18:00	31	16:58 (Alt 1)	16:22		16:19
24	05:33	19:27 (4)	06:09	18:21 (37)	06:45	07:23		07:05			07:33
	20:34	19:50 (4)	19:49	19:00 (37)	18:52	17:58	34	17:00 (Alt 1)	16:21		16:20
25	05:34	19:26 (4)	06:10	18:20 (37)	06:47	07:25		07:06			07:33
	20:33	19:51 (4)	19:48	19:01 (37)	18:50	17:57	35	17:00 (Alt 1)	16:21		16:20
26	05:35	19:25 (4)	06:11	18:19 (37)	06:48	07:26		07:08			07:34
	20:32	19:51 (4)	19:46	19:01 (37)	18:48	17:55	36	17:00 (Alt 1)	16:20		16:21
27	05:36	19:25 (4)	06:12	18:18 (37)	06:49	07:27		07:09			07:34
	20:31	19:52 (4)	19:44	19:01 (37)	18:46	17:54	38	17:01 (Alt 1)	16:19		16:22
28	05:37	19:24 (4)	06:13	18:18 (37)	06:50	07:29		07:10			07:34
	20:30	19:52 (4)	19:42	19:01 (37)	18:44	17:52	39	17:01 (Alt 1)	16:19		16:22
29	05:38	19:24 (4)	06:14	18:18 (37)	06:51	07:30		07:11			07:34
	20:29	19:53 (4)	19:41	19:01 (37)	18:43	17:51	39	17:02 (Alt 1)	16:18		16:23
30	05:39	19:23 (4)	06:16	18:17 (37)	06:53	07:31		07:13			07:35
	20:28	19:53 (4)	19:39	19:01 (37)	18:41	17:49	40	17:02 (Alt 1)	16:18		16:24
31	05:40	19:23 (4)	06:17	18:16 (37)		07:33		16:22 (Alt 1)			07:35
	20:27	19:53 (4)	19:37	19:00 (37)		17:48	40	17:02 (Alt 1)			16:25
Potential sun hours	472	436		376		341		288			274
Total, worst case	321	947		456		435		539			
Sun reduction	0.64	0.60		0.54		0.47		0.31			
Oper. time red.	1.00	1.00		1.00		1.00		1.00			
Wind dir. red.	0.62	0.67		0.70		0.79		0.79			
Total reduction	0.40	0.41		0.38		0.38		0.25			
Total, real	129	385		174		164		134			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 36

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 151 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (740)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35		14:00 (8)	07:17	14:22 (8)	06:36		06:39	17:49 (Alt 1)	05:48		05:14
	16:26	71	15:11 (8)	17:04	48	15:10 (8)	17:44		19:24	20	18:09 (Alt 1)	20:00
2	07:35		14:00 (8)	07:16		14:24 (8)	06:34		06:37		17:53 (Alt 1)	05:46
	16:27	71	15:11 (8)	17:06	45	15:09 (8)	17:45		19:25	12	18:05 (Alt 1)	20:01
3	07:35		14:01 (8)	07:15		14:26 (8)	06:33	16:59 (Alt 1)	06:35		05:45	05:13
	16:28	71	15:12 (8)	17:07	42	15:08 (8)	17:46	15	17:14 (Alt 1)		20:03	20:36
4	07:35		14:01 (8)	07:14		14:29 (8)	06:31		16:55 (Alt 1)	06:34	05:43	05:13
	16:29	70	15:11 (8)	17:08	38	15:07 (8)	17:48	22	17:17 (Alt 1)	19:27	20:04	20:37
5	07:35		14:01 (8)	07:13		14:31 (8)	06:29		16:53 (Alt 1)	06:32	05:42	05:12
	16:30	71	15:12 (8)	17:10	34	15:05 (8)	17:49	27	17:20 (Alt 1)	19:29	20:05	20:38
6	07:35		14:02 (8)	07:11		14:34 (8)	06:27		16:50 (Alt 1)	06:30	05:40	05:12
	16:31	71	15:13 (8)	17:11	29	15:03 (8)	17:50	32	17:22 (Alt 1)	19:30	20:06	20:39
7	07:35		14:03 (8)	07:10		14:38 (8)	06:25		16:48 (Alt 1)	06:28	05:39	05:11
	16:32	70	15:13 (8)	17:13	22	15:00 (8)	17:52	35	17:23 (Alt 1)	19:31	20:08	20:39
8	07:34		14:02 (8)	07:09		14:43 (8)	07:24		17:47 (Alt 1)	06:26	05:38	05:11
	16:33	71	15:13 (8)	17:14	11	14:54 (8)	18:53	37	18:24 (Alt 1)	19:33	20:09	20:40
9	07:34		14:03 (8)	07:07		07:22			17:45 (Alt 1)	06:24	05:36	05:11
	16:34	71	15:14 (8)	17:16		18:54		40	18:25 (Alt 1)	19:34	20:10	20:41
10	07:34		14:04 (8)	07:06		07:20			17:44 (Alt 1)	06:23	05:35	05:11
	16:35	70	15:14 (8)	17:17		18:56		42	18:26 (Alt 1)	19:35	20:11	20:41
11	07:34		14:04 (8)	07:05		07:18			17:43 (Alt 1)	06:21	05:34	05:10
	16:36	70	15:14 (8)	17:18		18:57		44	18:27 (Alt 1)	19:36	20:12	20:42
12	07:33		14:05 (8)	07:03		07:16			17:42 (Alt 1)	06:19	05:33	05:10
	16:37	70	15:15 (8)	17:20		18:58		46	18:28 (Alt 1)	19:38	20:14	20:43
13	07:33		14:05 (8)	07:02		07:15			17:41 (Alt 1)	06:17	05:31	05:10
	16:39	70	15:15 (8)	17:21		18:59		47	18:28 (Alt 1)	19:39	20:15	20:43
14	07:32		14:06 (8)	07:00		07:13			17:40 (Alt 1)	06:15	05:30	05:10
	16:40	69	15:15 (8)	17:23		19:01		48	18:28 (Alt 1)	19:40	20:16	20:44
15	07:32		14:06 (8)	06:59		07:11			17:40 (Alt 1)	06:14	05:29	05:10
	16:41	69	15:15 (8)	17:24		19:02		48	18:28 (Alt 1)	19:41	20:17	6
16	07:31		14:08 (8)	06:57		07:09			17:39 (Alt 1)	06:12	05:28	19:39 (37)
	16:42	68	15:16 (8)	17:26		19:03		49	18:28 (Alt 1)	19:43	20:18	14
17	07:31		14:08 (8)	06:56		07:07			17:39 (Alt 1)	06:10	05:27	19:36 (37)
	16:44	68	15:16 (8)	17:27		19:05		48	18:27 (Alt 1)	19:44	20:19	18
18	07:30		14:08 (8)	06:54		07:05			17:38 (Alt 1)	06:09	05:26	19:34 (37)
	16:45	68	15:16 (8)	17:28		19:06		49	18:27 (Alt 1)	19:45	20:20	21
19	07:29		14:09 (8)	06:53		07:03			17:39 (Alt 1)	06:07	05:25	19:33 (37)
	16:46	66	15:15 (8)	17:30		19:07		49	18:28 (Alt 1)	19:46	20:22	23
20	07:29		14:10 (8)	06:51		07:02			17:39 (Alt 1)	06:05	05:24	19:32 (37)
	16:47	66	15:16 (8)	17:31		19:08		48	18:27 (Alt 1)	19:48	20:23	25
21	07:28		14:11 (8)	06:49		07:00			17:39 (Alt 1)	06:03	05:23	19:31 (37)
	16:49	65	15:16 (8)	17:33		19:10		47	18:26 (Alt 1)	19:49	20:24	27
22	07:27		14:12 (8)	06:48		06:58			17:39 (Alt 1)	06:02	05:22	19:30 (37)
	16:50	64	15:16 (8)	17:34		19:11		47	18:26 (Alt 1)	19:50	20:25	29
23	07:26		14:12 (8)	06:46		06:56			17:39 (Alt 1)	06:00	05:21	19:30 (37)
	16:52	63	15:15 (8)	17:35		19:12		46	18:25 (Alt 1)	19:51	20:26	31
24	07:25		14:13 (8)	06:45		06:54			17:39 (Alt 1)	05:59	05:20	19:29 (37)
	16:53	62	15:15 (8)	17:37		19:14		45	18:24 (Alt 1)	19:53	20:27	33
25	07:25		14:14 (8)	06:43		06:52			17:39 (Alt 1)	05:57	05:19	19:28 (37)
	16:54	61	15:15 (8)	17:38		19:15		43	18:22 (Alt 1)	19:54	20:28	34
26	07:24		14:15 (8)	06:41		06:50			17:40 (Alt 1)	05:55	05:18	19:27 (37)
	16:56	60	15:15 (8)	17:39		19:16		41	18:21 (Alt 1)	19:55	20:29	36
27	07:23		14:16 (8)	06:39		06:48			17:42 (Alt 1)	05:54	05:18	19:28 (37)
	16:57	58	15:14 (8)	17:41		19:17		39	18:21 (Alt 1)	19:56	20:30	37
28	07:22		14:17 (8)	06:38		06:47			17:43 (Alt 1)	05:52	05:17	19:27 (37)
	16:58	57	15:14 (8)	17:42		19:19		36	18:19 (Alt 1)	19:58	20:31	38
29	07:21		14:19 (8)			06:45			17:44 (Alt 1)	05:51	05:16	19:26 (37)
	17:00	54	15:13 (8)			19:20		33	18:17 (Alt 1)	19:59	20:32	40
30	07:20		14:20 (8)			06:43			17:45 (Alt 1)	05:49	05:15	19:27 (37)
	17:01	53	15:13 (8)			19:21		30	18:15 (Alt 1)	20:00	20:33	40
31	07:18		14:22 (8)			06:41			17:47 (Alt 1)		05:15	19:26 (37)
	17:03	50	15:12 (8)			19:22		26	18:13 (Alt 1)		20:34	41
Potential sun hours	286		291			369			404		459	
Total, worst case		2038		269		1159			32		493	
Sun reduction		0.41		0.48		0.51			0.49		0.56	
Oper. time red.		1.00		1.00		1.00			1.00		1.00	
Wind dir. red.		0.75		0.75		0.76			0.76		0.58	
Total reduction		0.31		0.37		0.39			0.38		0.33	
Total, real		642		99		455			12		164	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

Project:

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Licensed user:

EDR

217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 151 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (740)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	19:31 (37)	05:42	06:18		06:54		17:21 (Alt 1)	06:34	07:14	13:46 (8)
2	05:15	19:31 (37)	05:43	06:19		06:55		17:21 (Alt 1)	06:36	07:15	13:47 (8)
3	05:15	19:31 (37)	05:44	06:20		06:56		17:22 (Alt 1)	06:37	07:16	13:47 (8)
4	05:16	19:31 (37)	05:45	06:22		06:58		17:22 (Alt 1)	06:38	07:17	13:47 (8)
5	05:16	19:32 (37)	05:46	06:23		06:59		17:23 (Alt 1)	06:40	07:18	13:48 (8)
6	05:17	19:32 (37)	05:47	06:24		07:00		17:23 (Alt 1)	06:41	07:19	13:48 (8)
7	05:18	19:32 (37)	05:48	06:25		07:01		17:25 (Alt 1)	06:42	07:20	13:48 (8)
8	05:18	19:33 (37)	05:50	06:26		07:03		17:27 (Alt 1)	06:44	07:21	13:49 (8)
9	05:19	19:33 (37)	05:51	06:28		07:04		17:28 (Alt 1)	06:45	07:22	13:49 (8)
10	05:20	19:33 (37)	05:52	06:29	17:47 (Alt 1)	07:05		17:32 (Alt 1)	06:47	07:23	13:49 (8)
11	05:21	19:33 (37)	05:53	06:30	17:42 (Alt 1)	07:06		17:36 (Alt 1)	06:48	07:24	13:50 (8)
12	05:22	19:34 (37)	05:54	06:31	17:39 (Alt 1)	07:08		17:46 (Alt 1)	06:33	07:25	13:51 (8)
13	05:22	19:35 (37)	05:55	06:32	17:37 (Alt 1)	07:09		16:32	53	14:44 (8)	16:16
14	05:23	19:35 (37)	05:57	06:33	17:34 (Alt 1)	07:10		16:31	55	14:45 (8)	16:16
15	05:24	19:35 (37)	05:58	06:35	17:32 (Alt 1)	07:12		16:30	57	14:46 (8)	16:16
16	05:25	19:36 (37)	05:59	06:36	17:30 (Alt 1)	07:13		16:29	58	14:47 (8)	16:16
17	05:26	19:36 (37)	06:00	06:37	17:28 (Alt 1)	07:14		16:28	60	14:48 (8)	16:16
18	05:27	19:37 (37)	06:01	06:38	17:28 (Alt 1)	07:15		16:27	61	14:49 (8)	16:17
19	05:28	19:38 (37)	06:03	06:39	17:27 (Alt 1)	07:17		16:26	62	14:49 (8)	16:17
20	05:29	19:39 (37)	06:04	06:41	17:25 (Alt 1)	07:18		16:25	63	14:49 (8)	16:17
21	05:30	19:40 (37)	06:05	06:42	17:24 (Alt 1)	07:19		16:24	64	14:51 (8)	16:18
22	05:31	19:41 (37)	06:06	06:43	17:23 (Alt 1)	07:21		16:23	65	14:51 (8)	16:18
23	05:32	19:42 (37)	06:07	06:44	17:22 (Alt 1)	07:22		16:22	66	14:52 (8)	16:19
24	05:33	19:43 (37)	06:09	06:45	17:22 (Alt 1)	07:23		16:21	68	14:53 (8)	16:20
25	05:34	19:44 (37)	06:10	06:47	17:22 (Alt 1)	07:25		16:20	68	14:54 (8)	16:20
26	05:35	19:45 (37)	06:11	06:48	17:21 (Alt 1)	07:26		16:19	68	14:54 (8)	16:21
27	05:36	19:46 (37)	06:12	06:49	17:21 (Alt 1)	07:27		16:18	69	14:55 (8)	16:22
28	05:37	19:47 (37)	06:13	06:50	17:20 (Alt 1)	07:29		16:17	69	14:55 (8)	16:22
29	05:38	19:48 (37)	06:14	06:51	17:21 (Alt 1)	07:30		16:16	70	14:56 (8)	16:23
30	05:39	19:49 (37)	06:15	06:52	17:21 (Alt 1)	07:31		16:15	70	14:56 (8)	16:24
31	05:40	19:50 (37)	06:16	06:53	17:21 (Alt 1)	07:32		16:14	70	14:56 (8)	16:24
Potential sun hours	472		436	376		341		288		274	
Total, worst case	1004			847		368		1538		2192	
Sun reduction	0.64			0.54		0.47		0.31		0.33	
Oper. time red.	1.00			1.00		1.00		1.00		1.00	
Wind dir. red.	0.58			0.76		0.76		0.75		0.75	
Total reduction	0.38			0.42		0.36		0.24		0.25	
Total, real	381			352		133		366		555	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Licensed user:

EDR

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US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 153 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (742)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:07 (6)	07:17	06:36		06:39	18:38 (1)	05:48		06:13 (4)	05:14
	16:26	28	15:35 (6)	17:04	17:44		19:24	19:01 (1)	20:00	24	06:37 (4)
2	07:35		15:08 (6)	07:16	06:34		06:37	18:36 (1)	05:46		06:13 (4)
	16:27	27	15:35 (6)	17:06	17:45		19:25	19:02 (1)	20:01	23	06:36 (4)
3	07:35		15:09 (6)	07:15	06:33		06:35	18:35 (1)	05:45		06:13 (4)
	16:28	26	15:35 (6)	17:07	17:46		19:26	19:04 (1)	20:03	23	06:36 (4)
4	07:35		15:10 (6)	07:14	06:31		06:34	18:34 (1)	05:43		06:14 (4)
	16:29	25	15:35 (6)	17:08	17:48		19:28	19:05 (1)	20:04	22	06:36 (4)
5	07:35		15:10 (6)	07:13	06:29		06:32	18:33 (1)	05:42		06:14 (4)
	16:30	24	15:34 (6)	17:10	17:49		19:29	19:06 (1)	20:05	20	06:34 (4)
6	07:35		15:11 (6)	07:11	06:27		06:30	18:32 (1)	05:40		06:15 (4)
	16:31	24	15:35 (6)	17:11	17:50		19:30	19:07 (1)	20:06	18	06:33 (4)
7	07:35		15:12 (6)	07:10	06:26		06:28	18:31 (1)	05:39		06:16 (4)
	16:32	23	15:35 (6)	17:13	17:52		19:31	19:08 (1)	20:08	17	06:33 (4)
8	07:34		15:14 (6)	07:09	07:24		06:26	18:31 (1)	05:38		06:17 (4)
	16:33	21	15:35 (6)	17:14	18:53		19:33	19:09 (1)	20:09	13	06:30 (4)
9	07:34		15:15 (6)	07:07	07:22		06:24	18:31 (1)	05:36		06:19 (4)
	16:34	19	15:34 (6)	17:16	18:54		19:34	19:11 (1)	20:10	9	06:28 (4)
10	07:34		15:16 (6)	07:06	07:20		06:23	18:30 (1)	05:35		05:11
	16:35	17	15:33 (6)	17:17	18:56		19:35	19:10 (1)	20:11		20:42
11	07:34		15:18 (6)	07:05	07:18		06:21	18:30 (1)	05:34		05:10
	16:36	14	15:32 (6)	17:19	18:57		19:36	19:10 (1)	20:12		20:42
12	07:33		15:20 (6)	07:03	07:16		06:19	18:30 (1)	05:33		05:10
	16:37	11	15:31 (6)	17:20	18:58		19:38	19:09 (1)	20:14		20:43
13	07:33		15:23 (6)	07:02	07:15		06:17	18:31 (1)	05:31		05:10
	16:39	5	15:28 (6)	17:21	19:00		19:39	19:09 (1)	20:15		20:43
14	07:32		17:00	07:13			06:16	18:31 (1)	05:30		05:10
	16:40		17:23	19:01			19:40	19:08 (1)	20:16		20:44
15	07:32		06:59	07:11			06:14	18:31 (1)	05:29		05:10
	16:41		17:24	19:02			19:41	19:07 (1)	20:17		20:44
16	07:31		06:57	07:09			06:12	18:31 (1)	05:28		19:51 (5)
	16:42		17:26	19:03			19:43	19:06 (1)	20:18	2	19:53 (5)
17	07:31		06:56	07:07			06:10	18:32 (1)	05:27		19:48 (5)
	16:44		17:27	19:05			19:44	19:06 (1)	20:19	6	19:54 (5)
18	07:30		06:54	07:05			06:09	18:33 (1)	05:26		19:47 (5)
	16:45		17:28	19:06			19:45	19:04 (1)	20:21	8	19:55 (5)
19	07:29		06:53	07:03			06:07	18:33 (1)	05:25		19:45 (5)
	16:46		17:30	19:07			19:46	19:02 (1)	20:22	11	19:56 (5)
20	07:29		06:51	07:02			06:05	18:35 (1)	05:24		19:44 (5)
	16:48		17:31	19:09			19:48	19:01 (1)	20:23	13	19:57 (5)
21	07:28		06:50	07:00			06:04	06:24 (4)	05:23		19:43 (5)
	16:49		17:33	19:10			19:49	18:59 (1)	20:24	15	19:58 (5)
22	07:27		06:48	06:58			06:02	06:22 (4)	05:22		19:43 (5)
	16:50		17:34	19:11			19:50	18:56 (1)	20:25	17	20:00 (5)
23	07:26		06:46	06:56			06:00	06:21 (4)	05:21		19:43 (5)
	16:52		17:35	19:12			19:51	18:53 (1)	20:26	18	20:01 (5)
24	07:26		06:45	06:54			05:59	06:19 (4)	05:20		19:42 (5)
	16:53		17:37	19:14			19:53	06:35 (4)	20:27	20	20:02 (5)
25	07:25		06:43	06:52			05:57	06:18 (4)	05:19		19:41 (5)
	16:54		17:38	19:15			19:54	06:36 (4)	20:28	21	20:02 (5)
26	07:24		06:41	06:50			05:55	06:16 (4)	05:18		19:41 (5)
	16:56		17:40	19:16			19:55	06:36 (4)	20:29	22	20:03 (5)
27	07:23		06:40	06:48			05:54	06:15 (4)	05:18		19:41 (5)
	16:57		17:41	19:17			19:56	06:37 (4)	20:30	24	20:05 (5)
28	07:22		06:38	06:47			05:52	06:13 (4)	05:17		19:41 (5)
	16:59		17:42	19:19		7	18:56 (1)	06:37 (4)	20:31	24	20:05 (5)
29	07:21		06:45	18:45 (1)	05:51		06:13 (4)	05:16			19:40 (5)
	17:00		19:20	18:57 (1)	19:59	12	06:37 (4)	20:32		26	20:06 (5)
30	07:20		06:43	18:42 (1)	05:49		06:13 (4)	05:15			19:41 (5)
	17:01		19:21	18:59 (1)	20:00	17	06:37 (4)	20:33		26	20:07 (5)
31	07:19		06:41	18:40 (1)				05:15			19:40 (5)
	17:03		19:23	20	19:00 (1)			20:34		27	20:07 (5)
Potential sun hours	286		291	369		404		459		466	
Total, worst case		264		56		906		449		992	
Sun reduction	0.41			0.51		0.49		0.56		0.59	
Oper. time red.	1.00			1.00		1.00		1.00		1.00	
Wind dir. red.	0.78			0.69		0.71		0.65		0.58	
Total reduction	0.32			0.36		0.35		0.37		0.35	
Total, real	86			20		320		166		344	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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Licensed user:

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217 Montgomery St.

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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 153 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (742)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December			
1	05:14		19:46 (5)	05:42		06:18		18:29 (1)	06:54	06:34		07:14	15:00 (6)	
	20:47	34	20:20 (5)	20:25		19:35	40	19:09 (1)	18:39	16:46		16:18	14	15:14 (6)
2	05:15		19:46 (5)	05:43		06:19		18:28 (1)	06:55	06:36		07:15		15:00 (6)
	20:47	33	20:19 (5)	20:24		19:34	40	19:08 (1)	18:37	16:45		16:17	16	15:16 (6)
3	05:15		19:47 (5)	05:44		06:21		18:28 (1)	06:56	06:37		07:16		14:59 (6)
	20:47	33	20:20 (5)	20:23	5	06:37 (4)	19:32	40	19:08 (1)	18:35	16:44	16:17	19	15:18 (6)
4	05:16		19:46 (5)	05:45		06:29 (4)	06:22		18:29 (1)	06:58	06:38	07:17		14:58 (6)
	20:47	33	20:19 (5)	20:22	11	06:40 (4)	19:30	38	19:07 (1)	18:33	16:42	16:17	21	15:19 (6)
5	05:16		19:47 (5)	05:46		06:27 (4)	06:23		18:28 (1)	06:59	06:40	07:18		14:58 (6)
	20:46	32	20:19 (5)	20:20	14	06:41 (4)	19:28	37	19:05 (1)	18:31	16:41	16:16	22	15:20 (6)
6	05:17		19:47 (5)	05:47		06:26 (4)	06:24		18:28 (1)	07:00	06:41	07:19		14:57 (6)
	20:46	32	20:19 (5)	20:19	17	06:43 (4)	19:26	35	19:03 (1)	18:30	16:40	16:16	24	15:21 (6)
7	05:18		19:47 (5)	05:49		06:24 (4)	06:25		18:28 (1)	07:01	06:43	07:20		14:57 (6)
	20:46	31	20:18 (5)	20:18	19	06:43 (4)	19:24	33	19:01 (1)	18:28	16:38	16:16	24	15:21 (6)
8	05:18		19:47 (5)	05:50		06:23 (4)	06:26		18:28 (1)	07:03	06:44	07:21		14:57 (6)
	20:45	31	20:18 (5)	20:16	21	06:44 (4)	19:22	31	18:59 (1)	18:26	16:37	16:16	25	15:22 (6)
9	05:19		19:48 (5)	05:51		06:22 (4)	06:28		18:28 (1)	07:04	06:45	07:22		14:57 (6)
	20:45	30	20:18 (5)	20:15	22	06:44 (4)	19:21	29	18:57 (1)	18:24	16:36	16:16	26	15:23 (6)
10	05:20		19:48 (5)	05:52		06:22 (4)	06:29		18:29 (1)	07:05	06:47	07:23		14:57 (6)
	20:45	30	20:18 (5)	20:13	23	06:45 (4)	19:19	26	18:55 (1)	18:22	16:35	16:16	27	15:24 (6)
11	05:21		19:48 (5)	05:53		06:21 (4)	06:30		18:31 (1)	07:06	06:48	07:24		14:57 (6)
	20:44	28	20:16 (5)	20:12	24	06:45 (4)	19:17	23	18:54 (1)	18:21	16:33	16:16	28	15:25 (6)
12	05:22		19:48 (5)	05:54		06:22 (4)	06:31		18:31 (1)	07:08	06:49	07:25		14:58 (6)
	20:44	28	20:16 (5)	20:11	24	06:46 (4)	19:15	21	18:52 (1)	18:19	16:32	16:16	28	15:26 (6)
13	05:22		19:49 (5)	05:56		06:21 (4)	06:32		18:33 (1)	07:09	06:51	07:26		14:58 (6)
	20:43	27	20:16 (5)	20:09	24	06:45 (4)	19:13	17	18:50 (1)	18:17	16:31	16:16	28	15:26 (6)
14	05:23		19:49 (5)	05:57		06:21 (4)	06:34		18:35 (1)	07:10	06:52	07:27		14:58 (6)
	20:42	26	20:15 (5)	20:07	24	06:45 (4)	19:11	13	18:48 (1)	18:15	16:30	16:16	29	15:27 (6)
15	05:24		19:50 (5)	05:58		06:21 (4)	06:35		18:37 (1)	07:12	06:53	07:28		14:58 (6)
	20:42	25	20:15 (5)	20:06	24	06:45 (4)	19:09	9	18:46 (1)	18:14	16:29	16:16	29	15:27 (6)
16	05:25		19:49 (5)	05:59		06:22 (4)	06:36		18:46 (1)	07:13	06:55	07:28		14:58 (6)
	20:41	24	20:13 (5)	20:04	22	06:44 (4)	19:07		18:48 (1)	18:12	16:28	16:16	30	15:28 (6)
17	05:26		19:50 (5)	06:00		06:23 (4)	06:37		18:49 (1)	07:14	06:56	07:29		14:59 (6)
	20:40	23	20:13 (5)	20:03	20	06:43 (4)	19:05		18:50 (1)	18:10	16:27	16:17	30	15:29 (6)
18	05:27		19:51 (5)	06:01		06:24 (4)	06:38		18:51 (1)	07:15	06:57	07:30		14:59 (6)
	20:40	21	20:12 (5)	20:01	18	06:42 (4)	19:04		18:52 (1)	18:08	16:26	16:17	30	15:29 (6)
19	05:28		19:51 (5)	06:03		06:25 (4)	06:40		18:53 (1)	07:16	06:59	07:31		15:00 (6)
	20:39	20	20:11 (5)	20:00	16	06:41 (4)	19:02		18:54 (1)	18:07	16:25	16:17	30	15:30 (6)
20	05:29		19:52 (5)	06:04		06:27 (4)	06:41		18:55 (1)	07:17	07:00	07:32		15:00 (6)
	20:38	19	20:11 (5)	19:56	26	19:00 (1)	19:00		18:56 (1)	18:05	16:24	16:18	31	15:31 (6)
21	05:30		19:53 (5)	06:05		06:28 (4)	06:42		18:57 (1)	07:18	07:01	07:33		15:00 (6)
	20:37	17	20:10 (5)	19:55	28	19:02 (1)	18:58		18:58 (1)	18:03	16:24	16:18	31	15:31 (6)
22	05:31		19:53 (5)	06:06		06:29 (4)	06:43		18:59 (1)	07:19	07:02	07:34		15:01 (6)
	20:36	16	20:09 (5)	19:53	28	19:04 (1)	18:56		19:00 (1)	18:02	16:23	16:19	31	15:01 (6)
23	05:32		19:54 (5)	06:07		18:39 (1)	06:44		19:01 (1)	07:20	07:03	07:35		15:02 (6)
	20:35	14	20:08 (5)	19:51	26	19:05 (1)	18:54		19:02 (1)	18:00	16:22	16:19	31	15:32 (6)
24	05:33		19:55 (5)	06:09		18:37 (1)	06:45		19:03 (1)	07:21	07:04	07:36		15:03 (6)
	20:34	12	20:07 (5)	19:49	29	19:06 (1)	18:52		19:04 (1)	17:58	16:21	16:20	30	15:32 (6)
25	05:34		19:56 (5)	06:10		18:35 (1)	06:47		19:05 (1)	07:22	07:05	07:37		15:03 (6)
	20:33	10	20:06 (5)	19:48	32	19:07 (1)	18:50		19:06 (1)	17:57	16:21	16:20	30	15:33 (6)
26	05:35		19:58 (5)	06:11		18:34 (1)	06:48		19:07 (1)	07:23	07:06	07:38		15:03 (6)
	20:32	7	20:05 (5)	19:46	34	19:08 (1)	18:48		19:08 (1)	17:55	16:20	16:21	30	15:33 (6)
27	05:36		20:00 (5)	06:12		18:34 (1)	06:49		19:09 (1)	07:24	07:07	07:39		15:03 (6)
	20:31	4	20:04 (5)	19:44	35	19:09 (1)	18:46		19:10 (1)	17:54	16:19	16:22	30	15:33 (6)
28	05:37			06:13		18:32 (1)	06:50		19:11 (1)	07:25	07:08	07:40		15:04 (6)
	20:30			19:43	37	19:09 (1)	18:45		19:12 (1)	17:52	16:19	16:22	29	15:33 (6)
29	05:38			06:15		18:31 (1)	06:52		19:13 (1)	07:26	07:09	07:41		15:05 (6)
	20:29			19:41	38	19:09 (1)	18:43		19:14 (1)	17:51	16:18	16:23	29	15:34 (6)
30	05:39			06:16		18:31 (1)	06:53		19:15 (1)	07:27	07:10	07:42		15:06 (6)
	20:28			19:39	38	19:09 (1)	18:41		19:16 (1)	17:49	16:18	16:24	28	15:34 (6)
31	05:41			06:17		18:30 (1)			19:17 (1)	07:28	07:11	07:43		15:06 (6)
	20:27			19:37	39	19:09 (1)			19:18 (1)	17:48		16:25	28	15:34 (6)
Potential sun hours	472			436		376			341		288		274	
Total, worst case		640		718		432							838	
Sun reduction		0.64		0.60		0.54					0.31		0.33	
Oper. time red.		1.00		1.00		1.00					1.00		1.00	
Wind dir. red.		0.58		0.73		0.69					0.78		0.78	
Total reduction		0.38		0.45		0.38					0.25		0.26	
Total, real		241		320		165					3		219	

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 154 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (743)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March	April	May	June
1	07:35	15:16 (6)	07:17	06:36	06:39	05:48	06:09 (4) 05:14
	16:26	36	15:52 (6) 17:04	17:44	19:24	20:00	19:17 (1) 20:35
2	07:35	15:16 (6)	07:16	06:34	06:37	05:46	06:07 (4) 05:14
	16:27	36	15:52 (6) 17:06	17:45	19:25	20:01	19:15 (1) 20:36
3	07:35	15:17 (6)	07:15	06:33	06:35	05:45	06:06 (4) 05:13
	16:28	36	15:53 (6) 17:07	17:46	19:26	20:03	19:14 (1) 20:36
4	07:35	15:17 (6)	07:14	06:31	06:34	05:43	06:05 (4) 05:13
	16:29	36	15:53 (6) 17:08	17:48	19:28	20:04	19:12 (1) 20:37
5	07:35	15:17 (6)	07:13	06:29	06:32	05:42	06:03 (4) 05:12
	16:30	36	15:53 (6) 17:10	17:49	19:29	20:05	19:09 (1) 20:38
6	07:35	15:18 (6)	07:11	06:27	06:30	05:40	06:02 (4) 05:12
	16:31	36	15:54 (6) 17:11	17:50	19:30	20:06	19:05 (1) 20:39
7	07:35	15:18 (6)	07:10	06:26	06:28	05:39	06:02 (4) 05:12
	16:32	36	15:54 (6) 17:13	17:52	19:31	20:08	06:26 (4) 20:40
8	07:34	15:19 (6)	07:09	06:24	06:26	19:00 (1) 05:38	06:02 (4) 05:11
	16:33	36	15:55 (6) 17:14	18:53	19:33	9	19:09 (1) 20:09
9	07:34	15:19 (6)	07:07	06:22	06:24	18:57 (1) 05:36	06:02 (4) 05:11
	16:34	35	15:54 (6) 17:16	18:54	19:34	14	19:11 (1) 20:10
10	07:34	15:20 (6)	07:06	06:23	06:23	18:55 (1) 05:35	06:02 (4) 05:11
	16:35	35	15:55 (6) 17:17	18:56	19:35	17	19:12 (1) 20:11
11	07:34	15:20 (6)	07:05	06:21	06:21	18:52 (1) 05:34	06:03 (4) 05:10
	16:36	35	15:55 (6) 17:19	18:57	19:36	21	19:13 (1) 20:12
12	07:33	15:21 (6)	07:03	06:19	06:19	18:51 (1) 05:33	06:03 (4) 05:10
	16:37	34	15:55 (6) 17:20	18:58	19:38	23	19:14 (1) 20:14
13	07:33	15:21 (6)	07:02	06:17	06:17	18:50 (1) 05:31	06:03 (4) 05:10
	16:39	34	15:55 (6) 17:21	19:00	19:39	26	19:16 (1) 20:15
14	07:32	15:23 (6)	07:00	06:16	06:16	18:48 (1) 05:30	06:03 (4) 05:10
	16:40	33	15:56 (6) 17:23	19:01	19:40	29	19:17 (1) 20:16
15	07:32	15:23 (6)	06:59	06:14	06:14	18:47 (1) 05:29	06:04 (4) 05:10
	16:41	32	15:55 (6) 17:24	19:02	19:41	31	19:18 (1) 20:17
16	07:31	15:25 (6)	06:57	06:12	06:12	18:46 (1) 05:28	06:05 (4) 05:10
	16:42	31	15:56 (6) 17:26	19:03	19:43	33	19:19 (1) 20:18
17	07:31	15:25 (6)	06:56	06:10	06:10	18:46 (1) 05:27	06:06 (4) 05:10
	16:44	30	15:55 (6) 17:27	19:05	19:44	35	19:21 (1) 20:19
18	07:30	15:26 (6)	06:54	06:09	06:09	18:45 (1) 05:26	06:08 (4) 05:10
	16:45	29	15:55 (6) 17:28	19:06	19:45	36	19:21 (1) 20:21
19	07:29	15:27 (6)	06:53	06:07	06:07	18:44 (1) 05:25	06:10 (4) 05:10
	16:46	27	15:54 (6) 17:30	19:07	19:46	38	19:22 (1) 20:22
20	07:29	15:29 (6)	06:51	06:05	06:05	18:45 (1) 05:24	05:10
	16:48	25	15:54 (6) 17:31	19:09	19:48	39	19:24 (1) 20:23
21	07:28	15:30 (6)	06:50	06:04	06:04	18:44 (1) 05:23	05:10
	16:49	23	15:53 (6) 17:33	19:10	19:49	40	19:24 (1) 20:24
22	07:27	15:31 (6)	06:48	06:02	06:02	18:44 (1) 05:22	05:11
	16:50	22	15:53 (6) 17:34	19:11	19:50	39	19:23 (1) 20:25
23	07:26	15:33 (6)	06:46	06:00	06:00	18:44 (1) 05:21	05:11
	16:52	18	15:51 (6) 17:35	19:12	19:51	39	19:23 (1) 20:26
24	07:26	15:35 (6)	06:45	06:54	05:59	18:44 (1) 05:20	05:11
	16:53	15	15:50 (6) 17:37	19:14	19:53	38	19:22 (1) 20:27
25	07:25	15:38 (6)	06:43	06:52	05:57	18:45 (1) 05:19	05:11
	16:54	9	15:47 (6) 17:38	19:15	19:54	37	19:22 (1) 20:28
26	07:24		06:41	06:50	05:55	18:45 (1) 05:18	05:12
	16:56		17:40	19:16	19:55	36	19:21 (1) 20:29
27	07:23		06:40	06:48	05:54	18:45 (1) 05:18	05:12
	16:57		17:41	19:17	19:56	36	19:21 (1) 20:30
28	07:22		06:38	06:47	05:52	06:13 (4) 05:17	05:13
	16:59		17:42	19:19	19:58	38	19:20 (1) 20:31
29	07:21			06:45	05:51	06:12 (4) 05:16	20:05 (5) 05:13
	17:00			19:20	19:59	41	19:19 (1) 20:32
30	07:20			06:43	05:49	06:10 (4) 05:16	20:04 (5) 05:14
	17:01			19:21	20:00	43	19:18 (1) 20:33
31	07:19			06:41		05:15	20:02 (5)
	17:03			19:23		20:34	5
Potential sun hours	286		291	369	404	459	466
Total, worst case		755			738	495	491
Sun reduction	0.41				0.49	0.56	0.59
Oper. time red.	1.00				1.00	1.00	1.00
Wind dir. red.	0.79				0.66	0.75	0.55
Total reduction	0.33				0.33	0.43	0.33
Total, real	248				245	211	163

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 154 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (743)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	20:03 (5)	05:42	06:13 (4)	06:18	18:51 (1)	06:54	06:34		07:14	15:02 (6)
2	05:15	20:03 (5)	05:43	06:12 (4)	06:19	18:53 (1)	06:55	06:36		07:15	15:03 (6)
3	05:15	20:04 (5)	05:44	06:13 (4)	06:21	18:54 (1)	06:56	06:37		07:16	15:03 (6)
4	05:16	20:04 (5)	05:45	06:12 (4)	06:22	18:58 (1)	06:58	06:38		07:17	15:03 (6)
5	05:16	20:05 (5)	05:46	06:12 (4)	06:23	19:07 (1)	06:59	06:40		07:18	15:04 (6)
6	05:17	20:05 (5)	05:47	06:12 (4)	06:24		07:00	06:41		07:19	15:04 (6)
7	05:18	20:05 (5)	05:49	06:12 (4)	06:25		07:01	06:43		07:20	15:04 (6)
8	05:18	20:06 (5)	05:50	06:13 (4)	06:26		07:03	06:44		07:21	15:04 (6)
9	05:19	20:07 (5)	05:51	06:14 (4)	06:28		07:04	06:45		07:22	15:05 (6)
10	05:20	20:09 (5)	05:52	06:15 (4)	06:29		07:05	06:47		07:23	15:05 (6)
11	05:21	20:09 (5)	05:53	06:16 (4)	06:30		07:06	06:48		07:24	15:06 (6)
12	05:22	20:10 (5)	05:54	06:18 (4)	06:31		07:08	06:49		07:25	15:06 (6)
13	05:22	20:12 (5)	05:56	06:19 (4)	06:32		07:09	06:51		07:26	15:07 (6)
14	05:23	20:13 (5)	05:57	06:20 (4)	06:34		07:10	06:52		07:27	15:08 (6)
15	05:24	20:15 (5)	06:00	06:21 (4)	06:35		07:12	06:53		07:28	15:07 (6)
16	05:25	20:16 (5)	06:01	06:22 (4)	06:36		07:13	06:55		07:28	15:08 (6)
17	05:26	20:17 (5)	06:02	06:23 (4)	06:37		07:14	06:56		07:29	15:09 (6)
18	05:27	20:18 (5)	06:03	06:24 (4)	06:38		07:16	06:57		07:30	15:09 (6)
19	05:28	20:19 (5)	06:04	06:25 (4)	06:40		07:17	06:59		07:30	15:09 (6)
20	05:29	20:20 (5)	06:05	06:26 (4)	06:41		07:18	07:00		07:31	15:10 (6)
21	05:30	20:21 (5)	06:06	06:27 (4)	06:42		07:19	07:01		07:31	15:10 (6)
22	05:31	20:22 (5)	06:07	06:28 (4)	06:43		07:21	07:03		07:32	15:11 (6)
23	05:32	20:23 (5)	06:08	06:29 (4)	06:44		07:22	07:04		07:32	15:11 (6)
24	05:33	20:24 (5)	06:09	06:30 (4)	06:45		07:23	07:05		07:33	15:11 (6)
25	05:34	20:25 (5)	06:10	06:31 (4)	06:46		07:25	07:07		07:33	15:13 (6)
26	05:35	20:26 (5)	06:11	06:32 (4)	06:47		07:26	07:08		07:34	15:13 (6)
27	05:36	20:27 (5)	06:12	06:33 (4)	06:48		07:27	07:09		07:34	15:13 (6)
28	05:37	20:28 (5)	06:13	06:34 (4)	06:49		07:29	07:11		07:35	15:14 (6)
29	05:38	20:29 (5)	06:14	06:35 (4)	06:50		07:30	07:12		07:35	15:14 (6)
30	05:39	20:30 (5)	06:15	06:36 (4)	06:51		07:31	07:13		07:35	15:15 (6)
31	05:41	20:31 (5)	06:16	06:37 (4)	06:52		07:32	07:14		07:35	15:15 (6)
Potential sun hours	472		436		376		341	288		274	
Total, worst case		272		1055		61		361		1114	
Sun reduction		0.64		0.60		0.54		0.31		0.33	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.65		0.69		0.66		0.79		0.79	
Total reduction		0.42		0.42		0.36		0.25		0.26	
Total, real		115		445		22		90		295	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 155 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (744)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:42 (6)	07:17	15:56 (6)	06:36	06:39		05:48		05:14	06:06 (4)
	16:26	16	15:58 (6)	17:04	16:11 (6)	17:44	19:24	20:00		20:35	20:09 (5)
2	07:35	15:42 (6)	07:16	15:59 (6)	06:34	06:37		05:46		05:14	19:50 (5)
	16:27	17	15:59 (6)	17:06	16:09 (6)	17:45	19:25	20:01		20:36	19:20:09 (5)
3	07:35	15:42 (6)	07:15		06:33	06:35		05:45		05:13	19:51 (5)
	16:28	18	16:00 (6)	17:07		17:46	19:26	20:03		20:36	19:20:10 (5)
4	07:35	15:42 (6)	07:14		06:31	06:34		05:43		05:13	19:50 (5)
	16:29	19	16:01 (6)	17:08		17:48	19:28	20:04	6	06:11 (4)	20:37
5	07:35	15:41 (6)	07:13		06:29	06:32		05:42		06:03 (4)	05:12
	16:30	20	16:01 (6)	17:10		17:49	19:29	20:05	11	06:14 (4)	20:38
6	07:35	15:42 (6)	07:11		06:27	06:30		05:40		06:02 (4)	05:12
	16:31	20	16:02 (6)	17:11		17:50	19:30	20:06	14	06:16 (4)	20:39
7	07:35	15:42 (6)	07:10		06:26	06:28		19:04 (1)	05:39	06:01 (4)	05:12
	16:32	22	16:04 (6)	17:13		17:52	19:31	4	19:08 (1)	20:08	16
8	07:34	15:43 (6)	07:09		06:26	06:26		19:00 (1)	05:38	05:59 (4)	05:11
	16:33	22	16:05 (6)	17:14		18:53	19:33	9	19:09 (1)	20:09	18
9	07:34	15:42 (6)	07:07		06:24	06:24		18:59 (1)	05:36	05:58 (4)	05:11
	16:34	24	16:06 (6)	17:16		18:54	19:34	12	19:11 (1)	20:10	20
10	07:34	15:43 (6)	07:06		06:23	06:23		18:57 (1)	05:35	05:57 (4)	05:11
	16:35	24	16:07 (6)	17:17		18:56	19:35	15	19:12 (1)	20:11	22
11	07:34	15:42 (6)	07:05		06:21	06:21		18:55 (1)	05:34	05:56 (4)	05:10
	16:36	26	16:08 (6)	17:19		18:57	19:36	18	19:13 (1)	20:12	24
12	07:33	15:43 (6)	07:03		06:19	06:19		18:53 (1)	05:33	05:54 (4)	05:10
	16:37	27	16:10 (6)	17:20		18:58	19:38	21	19:14 (1)	20:14	25
13	07:33	15:42 (6)	07:02		06:17	06:17		18:53 (1)	05:31	05:54 (4)	05:10
	16:39	28	16:10 (6)	17:21		19:00	19:39	23	19:16 (1)	20:15	26
14	07:32	15:43 (6)	07:00		06:16	06:16		18:52 (1)	05:30	05:54 (4)	05:10
	16:40	29	16:12 (6)	17:23		19:01	19:40	25	19:17 (1)	20:16	26
15	07:32	15:43 (6)	06:59		06:14	06:14		18:51 (1)	05:29	05:54 (4)	05:10
	16:41	30	16:13 (6)	17:24		19:02	19:41	27	19:18 (1)	20:17	26
16	07:31	15:44 (6)	06:57		06:12	06:12		18:50 (1)	05:28	05:54 (4)	05:10
	16:42	31	16:15 (6)	17:26		19:03	19:43	29	19:19 (1)	20:18	26
17	07:31	15:44 (6)	06:56		06:10	06:10		18:51 (1)	05:27	05:54 (4)	05:10
	16:44	32	16:16 (6)	17:27		19:05	19:44	30	19:21 (1)	20:19	26
18	07:30	15:44 (6)	06:54		06:09	06:09		18:50 (1)	05:26	05:54 (4)	05:10
	16:45	32	16:16 (6)	17:28		19:06	19:45	31	19:21 (1)	20:21	26
19	07:29	15:44 (6)	06:53		06:07	06:07		18:49 (1)	05:25	05:54 (4)	05:10
	16:46	33	16:17 (6)	17:30		19:07	19:46	33	19:22 (1)	20:22	26
20	07:29	15:45 (6)	06:51		06:05	06:05		18:50 (1)	05:24	05:54 (4)	05:10
	16:48	33	16:18 (6)	17:31		19:09	19:48	34	19:24 (1)	20:23	25
21	07:28	15:45 (6)	06:50		06:04	06:04		18:50 (1)	05:23	05:54 (4)	05:10
	16:49	33	16:18 (6)	17:33		19:10	19:49	33	19:23 (1)	20:24	27
22	07:27	15:46 (6)	06:48		06:02	06:02		18:50 (1)	05:22	05:56 (4)	05:11
	16:50	32	16:18 (6)	17:34		19:11	19:50	32	19:22 (1)	20:25	29
23	07:26	15:46 (6)	06:46		06:00	06:00		18:51 (1)	05:21	05:56 (4)	05:11
	16:52	32	16:18 (6)	17:35		19:12	19:51	31	19:22 (1)	20:26	30
24	07:26	15:47 (6)	06:45		06:54	06:54		18:51 (1)	05:20	05:57 (4)	05:11
	16:53	30	16:17 (6)	17:37		19:14	19:53	30	19:21 (1)	20:27	30
25	07:25	15:47 (6)	06:43		06:52	06:52		18:52 (1)	05:19	05:57 (4)	05:11
	16:54	30	16:17 (6)	17:38		19:15	19:54	28	19:20 (1)	20:28	31
26	07:24	15:48 (6)	06:41		06:50	06:50		18:52 (1)	05:18	05:57 (4)	05:12
	16:56	29	16:17 (6)	17:40		19:16	19:55	26	19:18 (1)	20:29	32
27	07:23	15:49 (6)	06:40		06:48	06:48		18:54 (1)	05:18	05:59 (4)	05:12
	16:57	28	16:17 (6)	17:41		19:17	19:56	23	19:17 (1)	20:30	31
28	07:22	15:50 (6)	06:38		06:47	06:47		18:55 (1)	05:17	06:00 (4)	05:13
	16:59	26	16:16 (6)	17:42		19:19	19:58	20	19:15 (1)	20:31	30
29	07:21	15:51 (6)			06:45	06:45		18:57 (1)	05:16	06:00 (4)	05:13
	17:00	25	16:16 (6)		19:20	19:59	17	19:14 (1)	20:32	31	20:06 (5)
30	07:20	15:53 (6)			06:43	06:43		18:59 (1)	05:15	06:02 (4)	05:14
	17:01	22	16:15 (6)		19:21	20:00	11	19:10 (1)	20:33	28	20:07 (5)
31	07:19	15:55 (6)			06:41			05:15		06:03 (4)	
	17:03	19	16:14 (6)		19:23			20:34	26	20:07 (5)	
Potential sun hours	286		291		369	404		459		466	
Total, worst case	809		25			562		688		714	
Sun reduction	0.41		0.48			0.49		0.56		0.59	
Oper. time red.	1.00		1.00			1.00		1.00		1.00	
Wind dir. red.	0.79		0.79			0.66		0.75		0.57	
Total reduction	0.33		0.39			0.33		0.43		0.34	
Total, real	267		10			185		293		245	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 155 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (744)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December				
1	05:14	19:56 (5)	05:42		06:05 (4)	06:18	18:54 (1)	06:54	06:34		07:14	15:24 (6)			
	20:47	24	20:20 (5)	20:25	25	06:30 (4)	19:35	18	19:12 (1)	18:39	16:46	16:18	26	15:50 (6)	
2	05:15		19:56 (5)	05:43		06:06 (4)	06:19		18:55 (1)	06:55	06:36		07:15	15:26 (6)	
	20:47	23	20:19 (5)	20:24	23	06:29 (4)	19:34	15	19:10 (1)	18:37	16:45		16:17	24	15:50 (6)
3	05:15		19:56 (5)	05:44		06:08 (4)	06:21		18:56 (1)	06:56	06:37		07:16		15:26 (6)
	20:47	24	20:20 (5)	20:23	21	06:29 (4)	19:32	12	19:08 (1)	18:35	16:44		16:17	24	15:50 (6)
4	05:16		19:56 (5)	05:45		06:09 (4)	06:22		18:58 (1)	06:58	06:38		07:17		15:27 (6)
	20:47	23	20:19 (5)	20:22	20	06:29 (4)	19:30	9	19:07 (1)	18:33	16:42		16:17	22	15:49 (6)
5	05:16		19:56 (5)	05:46		06:10 (4)	06:23		19:01 (1)	06:59	06:40		07:18		15:27 (6)
	20:46	23	20:19 (5)	20:20	18	06:28 (4)	19:28	4	19:05 (1)	18:31	16:41		16:16	22	15:49 (6)
6	05:17		19:57 (5)	05:47		06:11 (4)	06:24		07:00	06:41		07:19		15:28 (6)	
	20:46	22	20:19 (5)	20:19	15	06:26 (4)	19:26		18:30	16:40		16:16	20	15:48 (6)	
7	05:18		19:57 (5)	05:49		06:12 (4)	06:25		07:01	06:42		07:20		15:29 (6)	
	20:46	21	20:18 (5)	20:18	13	06:25 (4)	19:24		18:28	16:38		16:16	19	15:48 (6)	
8	05:18		19:57 (5)	05:50		06:13 (4)	06:26		07:03	06:44		07:21		15:29 (6)	
	20:45	21	20:18 (5)	20:16	10	06:23 (4)	19:22		18:26	16:37		16:16	19	15:48 (6)	
9	05:19		19:58 (5)	05:51		06:15 (4)	06:28		07:04	06:45	15:30 (6)	07:22		15:30 (6)	
	20:45	20	20:18 (5)	20:15	3	06:18 (4)	19:21		18:24	16:36	10	15:40 (6)	16:16	18	15:48 (6)
10	05:20		19:58 (5)	05:52			06:29		07:05	06:47		15:27 (6)	07:23		15:31 (6)
	20:45	20	20:18 (5)	20:13			19:19		18:22	16:35	15	15:42 (6)	16:16	17	15:48 (6)
11	05:21		06:15 (4)	05:53			06:30		07:06	06:48		15:25 (6)	07:24		15:32 (6)
	20:44	19	20:16 (5)	20:12			19:17		18:21	16:33	20	15:45 (6)	16:16	16	15:48 (6)
12	05:22		06:12 (4)	05:54			06:31		07:08	06:49		15:24 (6)	07:25		15:33 (6)
	20:44	26	20:16 (5)	20:10			19:15		18:19	16:32	22	15:46 (6)	16:16	15	15:48 (6)
13	05:22		06:11 (4)	05:56		19:07 (1)	06:32		07:09	06:51		15:23 (6)	07:26		15:33 (6)
	20:43	28	20:16 (5)	20:09	13	19:20 (1)	19:13		18:17	16:31	25	15:48 (6)	16:16	15	15:48 (6)
14	05:23		06:10 (4)	05:57		19:04 (1)	06:34		07:10	06:52		15:22 (6)	07:27		15:34 (6)
	20:42	28	20:15 (5)	20:07	18	19:22 (1)	19:11		18:15	16:30	26	15:48 (6)	16:16	14	15:48 (6)
15	05:24		06:09 (4)	05:58		19:02 (1)	06:35		07:12	06:53		15:22 (6)	07:28		15:34 (6)
	20:42	31	20:15 (5)	20:06	21	19:23 (1)	19:09		18:14	16:29	28	15:50 (6)	16:16	14	15:48 (6)
16	05:25		06:08 (4)	05:59		19:00 (1)	06:36		07:13	06:55		15:21 (6)	07:28		15:35 (6)
	20:41	30	20:13 (5)	20:04	24	19:24 (1)	19:07		18:12	16:28	29	15:50 (6)	16:16	13	15:48 (6)
17	05:26		06:07 (4)	06:00		18:59 (1)	06:37		07:14	06:56		15:21 (6)	07:29		15:36 (6)
	20:40	31	20:13 (5)	20:03	26	19:25 (1)	19:05		18:10	16:27	30	15:51 (6)	16:17	13	15:49 (6)
18	05:27		06:07 (4)	06:01		18:57 (1)	06:38		07:15	06:57		15:21 (6)	07:30		15:36 (6)
	20:40	31	20:12 (5)	20:01	29	19:26 (1)	19:04		18:08	16:26	30	15:51 (6)	16:17	12	15:48 (6)
19	05:28		06:06 (4)	06:03		18:56 (1)	06:40		07:17	06:59		15:21 (6)	07:30		15:37 (6)
	20:39	30	20:11 (5)	20:00	30	19:26 (1)	19:02		18:07	16:25	32	15:53 (6)	16:17	12	15:49 (6)
20	05:29		06:06 (4)	06:04		18:56 (1)	06:41		07:18	07:00		15:21 (6)	07:31		15:38 (6)
	20:38	30	20:11 (5)	19:56	32	19:28 (1)	19:00		18:05	16:24	32	15:53 (6)	16:18	12	15:50 (6)
21	05:30		06:05 (4)	06:05		18:55 (1)	06:42		07:19	07:01		15:20 (6)	07:31		15:38 (6)
	20:37	30	20:10 (5)	19:55	33	19:28 (1)	18:58		18:03	16:24	33	15:53 (6)	16:18	12	15:50 (6)
22	05:31		06:05 (4)	06:06		18:55 (1)	06:43		07:21	07:03		15:21 (6)	07:32		15:39 (6)
	20:36	28	20:09 (5)	19:53	33	19:28 (1)	18:56		18:02	16:23	33	15:54 (6)	16:19	12	15:51 (6)
23	05:32		06:05 (4)	06:07		18:54 (1)	06:44		07:22	07:04		15:21 (6)	07:32		15:39 (6)
	20:35	26	20:08 (5)	19:51	34	19:28 (1)	18:54		18:00	16:22	33	15:54 (6)	16:19	12	15:51 (6)
24	05:33		06:05 (4)	06:09		18:53 (1)	06:45		07:23	07:05		15:21 (6)	07:33		15:39 (6)
	20:34	25	06:30 (4)	19:49	33	19:26 (1)	18:52		17:58	16:21	33	15:54 (6)	16:20	12	15:51 (6)
25	05:34		06:04 (4)	06:10		18:53 (1)	06:47		07:25	07:07		15:22 (6)	07:33		15:40 (6)
	20:33	26	06:30 (4)	19:48	31	19:24 (1)	18:50		17:57	16:21	32	15:54 (6)	16:20	12	15:52 (6)
26	05:35		06:04 (4)	06:11		18:52 (1)	06:48		07:26	07:08		15:22 (6)	07:34		15:40 (6)
	20:32	27	06:31 (4)	19:46	30	19:22 (1)	18:48		17:55	16:20	31	15:53 (6)	16:21	13	15:53 (6)
27	05:36		06:04 (4)	06:12		18:53 (1)	06:49		07:27	07:09		15:22 (6)	07:34		15:40 (6)
	20:31	27	06:31 (4)	19:44	28	19:21 (1)	18:46		17:54	16:19	30	15:52 (6)	16:22	13	15:53 (6)
28	05:37		06:04 (4)	06:13		18:53 (1)	06:50		07:29	07:10		15:23 (6)	07:34		15:40 (6)
	20:30	27	06:31 (4)	19:43	27	19:20 (1)	18:45		17:52	16:19	29	15:52 (6)	16:22	14	15:54 (6)
29	05:38		06:04 (4)	06:15		18:53 (1)	06:52		07:30	07:11		15:23 (6)	07:35		15:41 (6)
	20:29	27	06:31 (4)	19:41	25	19:18 (1)	18:43		17:51	16:18	28	15:51 (6)	16:23	14	15:55 (6)
30	05:39		06:04 (4)	06:16		18:53 (1)	06:53		07:32	07:13		15:24 (6)	07:35		15:41 (6)
	20:28	26	06:30 (4)	19:39	23	19:16 (1)	18:41		17:49	16:18	27	15:51 (6)	16:24	15	15:56 (6)
31	05:41		06:04 (4)	06:17		18:53 (1)			07:33			07:35			15:41 (6)
	20:27	26	06:30 (4)	19:37	21	19:14 (1)			17:48			16:25		16	15:57 (6)
Potential sun hours	472		436			376			341	288			274		
Total, worst case		800		659			58			608				492	
Sun reduction		0.64		0.60			0.54			0.31				0.33	
Oper. time red.		1.00		1.00			1.00			1.00				1.00	
Wind dir. red.		0.69		0.69			0.66			0.79				0.79	
Total reduction		0.45		0.42			0.36			0.25				0.27	
Total, real		357		277			21			152				131	

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 44

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 156 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (745)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35		07:17	15:58 (6)	06:36	06:39		05:48		19:01 (1)	05:14
	16:26		17:04	16:29 (6)	17:44	19:24		20:00	31	19:32 (1)	20:35
2	07:35		07:16	15:59 (6)	06:34	06:37		05:46		19:01 (1)	05:14
	16:27		17:06	16:29 (6)	17:45	19:25		20:01	30	19:31 (1)	20:36
3	07:35		07:15	16:00 (6)	06:33	06:35		05:45		19:02 (1)	05:13
	16:28		17:07	16:29 (6)	17:46	19:26		20:03	28	19:30 (1)	20:36
4	07:35		07:14	16:01 (6)	06:31	06:34		05:43		19:03 (1)	05:13
	16:29		17:08	16:29 (6)	17:48	19:28		20:04	27	19:30 (1)	20:37
5	07:35		07:13	16:01 (6)	06:29	06:32		05:42		19:03 (1)	05:12
	16:30		17:10	16:27 (6)	17:49	19:29		20:05	25	19:28 (1)	20:38
6	07:35		07:11	16:03 (6)	06:27	06:30		05:40		19:04 (1)	05:12
	16:31		17:11	16:27 (6)	17:50	19:30		20:06	23	19:27 (1)	20:39
7	07:35		07:10	16:05 (6)	06:26	06:28		05:39		19:06 (1)	05:12
	16:32		17:13	16:26 (6)	17:52	19:31		20:08	20	19:26 (1)	20:40
8	07:34		07:09	16:06 (6)	07:24	06:26		05:38		19:07 (1)	05:11
	16:33		17:14	16:24 (6)	18:53	19:33		20:09	16	19:23 (1)	20:40
9	07:34		07:07	16:09 (6)	07:22	06:24		05:36		19:10 (1)	05:11
	16:34	4	16:06 (6)	17:16	16:22 (6)	18:54	19:34	20:10	11	19:21 (1)	20:41
10	07:34		07:06	16:01 (6)	07:06	07:20	06:23	05:35			05:11
	16:35	6	16:07 (6)	17:17		18:56	19:35	20:11			20:42
11	07:34		07:05	16:00 (6)	07:05	07:18	06:21	05:34		05:56 (4)	05:10
	16:36	8	16:08 (6)	17:19		18:57	19:36	20:12	5	06:01 (4)	20:42
12	07:33		07:03	15:59 (6)	07:03	07:16	06:19	05:33		05:54 (4)	05:10
	16:37	11	16:10 (6)	17:20		18:58	19:38	20:14	9	06:03 (4)	20:43
13	07:33		07:02	15:58 (6)	07:02	07:15	06:17	05:31		05:53 (4)	05:10
	16:39	12	16:10 (6)	17:21		19:00	19:39	20:15	12	06:05 (4)	20:43
14	07:32		07:00	15:58 (6)	07:00	07:13	06:16	19:15 (1)	05:30	05:52 (4)	05:10
	16:40	14	16:12 (6)	17:23		19:01	19:40	2	19:17 (1)	20:16	15
15	07:32		06:59	15:58 (6)	06:59	07:11	06:14	19:11 (1)	05:29	05:51 (4)	05:10
	16:41	15	16:13 (6)	17:24		19:02	19:41	7	19:18 (1)	20:17	17
16	07:31		06:57	15:58 (6)	06:57	07:09	06:12	19:08 (1)	05:28	05:50 (4)	05:10
	16:42	17	16:15 (6)	17:26		19:03	19:43	11	19:19 (1)	20:18	19
17	07:31		06:56	15:57 (6)	06:56	07:07	06:10	19:07 (1)	05:27	05:49 (4)	05:10
	16:44	19	16:16 (6)	17:27		19:05	19:44	14	19:21 (1)	20:19	20
18	07:30		06:54	15:56 (6)	06:54	07:05	06:09	19:05 (1)	05:26	05:48 (4)	05:10
	16:45	20	16:17 (6)	17:28		19:06	19:45	16	19:21 (1)	20:21	22
19	07:29		06:53	15:56 (6)	06:53	07:03	06:07	19:04 (1)	05:25	05:47 (4)	05:10
	16:46	22	16:18 (6)	17:30		19:07	19:46	18	19:22 (1)	20:22	23
20	07:29		06:51	15:57 (6)	06:51	07:02	06:05	19:03 (1)	05:24	05:46 (4)	05:10
	16:48	24	16:21 (6)	17:31		19:09	19:48	21	19:24 (1)	20:23	25
21	07:28		06:50	15:56 (6)	06:50	07:00	06:04	19:02 (1)	05:23	05:45 (4)	05:10
	16:49	26	16:22 (6)	17:33		19:10	19:49	23	19:25 (1)	20:24	26
22	07:27		06:48	15:56 (6)	06:48	06:58	06:02	19:01 (1)	05:22	05:46 (4)	05:11
	16:50	27	16:23 (6)	17:34		19:11	19:50	25	19:26 (1)	20:25	26
23	07:26		06:46	15:56 (6)	06:46	06:56	06:00	19:01 (1)	05:21	05:46 (4)	05:11
	16:52	29	16:25 (6)	17:35		19:12	19:51	26	19:27 (1)	20:26	26
24	07:26		06:45	15:56 (6)	06:45	06:54	05:59	19:00 (1)	05:20	05:45 (4)	05:11
	16:53	30	16:26 (6)	17:37		19:14	19:53	28	19:28 (1)	20:27	27
25	07:25		06:43	15:56 (6)	06:43	06:52	05:57	19:00 (1)	05:19	05:45 (4)	05:11
	16:54	31	16:27 (6)	17:38		19:15	19:54	30	19:30 (1)	20:28	27
26	07:24		06:41	15:56 (6)	06:41	06:50	05:55	19:00 (1)	05:18	05:45 (4)	05:12
	16:56	33	16:29 (6)	17:40		19:16	19:55	31	19:31 (1)	20:29	26
27	07:23		06:40	15:56 (6)	06:40	06:48	05:54	19:00 (1)	05:18	05:46 (4)	05:12
	16:57	34	16:30 (6)	17:41		19:17	19:56	32	19:32 (1)	20:30	26
28	07:22		06:38	15:57 (6)	06:38	06:47	05:52	19:00 (1)	05:17	05:46 (4)	05:13
	16:59	33	16:30 (6)	17:42		19:19	19:58	33	19:33 (1)	20:31	26
29	07:21		06:36	15:57 (6)	06:36	06:45	05:51	19:00 (1)	05:16	05:46 (4)	05:13
	17:00	33	16:30 (6)			19:20	19:59	33	19:33 (1)	20:32	25
30	07:20		06:34	15:58 (6)	06:34	06:43	05:49	19:00 (1)	05:15	05:47 (4)	05:14
	17:01	32	16:30 (6)			19:21	20:00	32	19:32 (1)	20:33	25
31	07:19		06:32	15:58 (6)	06:32	06:41			05:15	05:47 (4)	
	17:03	32	16:30 (6)			19:23			20:34	20:07 (5)	25
Potential sun hours	286		291		369	404		459		466	
Total, worst case		512		220		382		663		902	
Sun reduction	0.41		0.48			0.49		0.56		0.59	
Oper. time red.	1.00		1.00			1.00		1.00		1.00	
Wind dir. red.	0.79		0.79			0.64		0.74		0.70	
Total reduction	0.33		0.38			0.32		0.42		0.41	
Total, real	168		84			121		278		373	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 156 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (745)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:57 (4)	05:42	06:05 (4)	06:18	06:54	06:34	15:42 (6)	07:14	15:42 (6)	07:14
2	05:15	05:56 (4)	05:43	06:13 (4)	06:19	06:55	06:36	15:38 (6)	07:15	15:44 (6)	07:15
3	05:15	05:56 (4)	05:44	19:24 (1)	06:21	06:56	06:37	15:52 (6)	07:16	15:50 (6)	07:16
4	05:16	05:56 (4)	05:45	19:28 (1)	06:22	06:58	06:38	15:54 (6)	07:17	15:50 (6)	07:17
5	05:16	05:56 (4)	05:46	19:32 (1)	06:23	06:59	06:40	15:56 (6)	07:18	15:56 (6)	07:18
6	05:17	05:56 (4)	05:47	19:34 (1)	06:24	07:00	06:41	15:57 (6)	07:19	15:57 (6)	07:19
7	05:18	05:55 (4)	05:49	19:36 (1)	06:25	07:01	06:42	15:58 (6)	07:20	15:58 (6)	07:20
8	05:18	05:55 (4)	05:50	19:37 (1)	06:26	07:03	06:44	15:59 (6)	07:21	15:59 (6)	07:21
9	05:19	05:56 (4)	05:51	19:38 (1)	06:27	07:04	06:45	16:00 (6)	07:22	16:00 (6)	07:22
10	05:20	05:56 (4)	05:52	19:39 (1)	06:28	07:05	06:47	16:01 (6)	07:23	16:01 (6)	07:23
11	05:21	05:55 (4)	05:53	19:40 (1)	06:29	07:06	06:48	16:02 (6)	07:24	16:02 (6)	07:24
12	05:22	05:55 (4)	05:54	19:41 (1)	06:30	07:07	06:49	16:03 (6)	07:25	16:03 (6)	07:25
13	05:22	05:55 (4)	05:55	19:42 (1)	06:31	07:08	06:51	16:04 (6)	07:26	16:04 (6)	07:26
14	05:23	05:55 (4)	05:57	19:43 (1)	06:32	07:09	06:52	16:05 (6)	07:27	16:05 (6)	07:27
15	05:24	05:55 (4)	05:58	19:44 (1)	06:33	07:10	06:53	16:06 (6)	07:28	16:06 (6)	07:28
16	05:25	05:54 (4)	05:59	19:45 (1)	06:34	07:11	06:54	16:07 (6)	07:29	16:07 (6)	07:29
17	05:26	05:54 (4)	06:00	19:46 (1)	06:35	07:12	06:55	16:08 (6)	07:30	16:08 (6)	07:30
18	05:27	05:54 (4)	06:01	19:47 (1)	06:36	07:13	06:56	16:09 (6)	07:31	16:09 (6)	07:31
19	05:28	05:54 (4)	06:03	19:48 (1)	06:37	07:14	06:57	16:10 (6)	07:32	16:10 (6)	07:32
20	05:29	05:54 (4)	06:04	19:49 (1)	06:38	07:15	06:58	16:11 (6)	07:33	16:11 (6)	07:33
21	05:30	05:54 (4)	06:05	19:50 (1)	06:39	07:16	06:59	16:12 (6)	07:34	16:12 (6)	07:34
22	05:31	05:54 (4)	06:06	19:51 (1)	06:40	07:17	07:00	16:13 (6)	07:35	16:13 (6)	07:35
23	05:32	05:54 (4)	06:07	19:52 (1)	06:41	07:18	07:01	16:14 (6)	07:36	16:14 (6)	07:36
24	05:33	05:54 (4)	06:09	19:53 (1)	06:42	07:19	07:02	16:15 (6)	07:37	16:15 (6)	07:37
25	05:34	05:54 (4)	06:10	19:54 (1)	06:43	07:20	07:03	16:16 (6)	07:38	16:16 (6)	07:38
26	05:35	05:54 (4)	06:11	19:55 (1)	06:44	07:21	07:04	16:17 (6)	07:39	16:17 (6)	07:39
27	05:36	05:54 (4)	06:12	19:56 (1)	06:45	07:22	07:05	16:18 (6)	07:40	16:18 (6)	07:40
28	05:37	05:54 (4)	06:13	19:57 (1)	06:46	07:23	07:06	16:19 (6)	07:41	16:19 (6)	07:41
29	05:38	05:54 (4)	06:15	19:58 (1)	06:47	07:24	07:07	16:20 (6)	07:42	16:20 (6)	07:42
30	05:39	05:54 (4)	06:16	19:59 (1)	06:48	07:25	07:08	16:21 (6)	07:43	16:21 (6)	07:43
31	05:41	05:54 (4)	06:17	20:00 (1)	06:49	07:26	07:09	16:22 (6)	07:44	16:22 (6)	07:44
Potential sun hours	472	436	376	341	288	274	18	0.33	1.00	0.79	0.26
Total, worst case	788	607	725	725	725	725	18	0.33	1.00	0.79	0.26
Sun reduction	0.64	0.60	0.31	0.31	0.31	0.31	0.33	0.33	0.33	0.33	0.33
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.76	0.64	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Total reduction	0.49	0.39	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
Total, real	387	236	179	179	179	179	5	5	5	5	5

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 46

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 170 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (759)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:35 16:26	07:17 17:04	06:36 17:44	06:39 19:24	05:48 20:00	06:23 (22) 20:35	05:14 20:47	06:28 (22) 20:47	05:42 20:25	06:28 (22) 19:35	06:54 18:39	06:34 16:46
2	07:35 16:27	07:16 17:06	06:34 17:45	06:37 19:25	05:46 20:01	06:22 (22) 20:35	05:15 20:47	06:28 (22) 20:47	05:43 20:24	06:28 (22) 19:33	06:55 18:37	06:36 16:45
3	07:35 16:28	07:15 17:07	06:33 17:46	06:35 19:26	05:45 20:03	06:21 (22) 20:36	05:15 20:47	06:28 (22) 20:47	05:44 20:23	06:29 (22) 19:32	06:56 18:35	06:37 16:44
4	07:35 16:29	07:14 17:08	06:31 17:48	06:34 19:28	05:43 20:04	06:21 (22) 20:37	05:16 20:47	06:28 (22) 20:47	05:45 20:22	06:29 (22) 19:30	06:58 18:33	06:38 16:42
5	07:35 16:30	07:13 17:10	06:29 17:49	06:32 19:29	05:42 20:05	06:20 (22) 20:38	05:16 20:46	06:28 (22) 20:46	05:46 20:20	06:29 (22) 19:28	06:59 18:31	06:40 16:41
6	07:35 16:31	07:11 17:11	06:27 17:50	06:30 19:30	05:40 20:06	06:20 (22) 20:39	05:17 20:46	06:29 (22) 20:46	05:47 20:19	06:29 (22) 19:26	07:00 18:30	06:41 16:40
7	07:35 16:32	07:10 17:13	06:25 17:52	06:28 19:31	05:39 20:08	06:19 (22) 20:39	05:12 20:46	06:22 (22) 20:46	05:49 20:18	06:28 (22) 19:24	07:01 18:28	06:42 16:38
8	07:34 16:33	07:09 17:14	07:24 18:53	06:26 19:33	05:38 20:09	06:18 (22) 20:40	05:11 20:45	06:23 (22) 20:45	05:50 20:16	06:29 (22) 19:22	07:03 18:26	06:43 16:37
9	07:34 16:34	07:07 17:16	07:22 18:54	06:24 19:34	05:36 20:10	06:18 (22) 20:41	05:11 20:45	06:23 (22) 20:45	05:51 20:15	06:30 (22) 19:20	07:04 18:24	06:45 16:36
10	07:34 16:35	07:06 17:17	07:20 18:56	06:23 19:35	05:35 20:11	06:18 (22) 20:41	05:11 20:45	06:24 (22) 20:44	05:52 20:13	06:30 (22) 19:19	07:05 18:22	06:47 16:35
11	07:34 16:36	07:05 17:19	07:18 18:57	06:21 19:36	05:34 20:12	06:18 (22) 20:42	05:10 20:44	06:24 (22) 20:44	05:53 20:12	06:30 (22) 19:17	07:06 18:21	06:48 16:33
12	07:33 16:37	07:03 17:20	07:16 18:58	06:19 19:38	05:33 20:14	06:17 (22) 20:43	05:10 20:43	06:24 (22) 20:43	05:54 20:10	06:32 (22) 19:15	07:08 18:19	06:49 16:32
13	07:33 16:39	07:02 17:21	07:15 19:00	06:17 19:39	05:31 20:15	06:17 (22) 20:43	05:10 20:43	06:24 (22) 20:43	05:56 20:09	06:32 (22) 19:13	07:09 18:17	06:51 16:31
14	07:32 16:40	07:00 17:23	07:13 19:01	06:16 19:40	05:30 20:16	06:17 (22) 20:44	05:10 20:42	06:25 (22) 20:42	05:57 20:07	06:33 (22) 19:11	07:10 18:15	06:52 16:30
15	07:32 16:41	06:59 17:24	07:11 19:02	06:14 19:41	05:29 20:17	06:17 (22) 20:44	05:10 20:42	06:25 (22) 20:42	05:58 20:06	06:34 (22) 19:09	07:12 18:13	06:53 16:29
16	07:31 16:42	06:57 17:26	07:09 19:03	06:12 19:43	05:28 20:18	06:17 (22) 20:45	05:10 20:42	06:25 (22) 20:41	05:59 20:04	06:34 (22) 19:07	07:13 18:12	06:55 16:28
17	07:31 16:44	06:56 17:27	07:07 19:05	06:10 19:44	05:27 20:19	06:17 (22) 20:45	05:10 20:40	06:25 (22) 20:40	06:00 20:03	06:35 (22) 19:05	07:14 18:10	06:56 16:27
18	07:30 16:45	06:54 17:28	07:05 19:06	06:09 19:45	05:26 20:20	06:17 (22) 20:46	05:10 20:40	06:26 (22) 20:39	06:01 20:01	06:36 (22) 19:03	07:15 18:08	06:57 16:17
19	07:29 16:46	06:53 17:30	07:03 19:07	06:07 19:46	05:25 20:22	06:17 (22) 20:46	05:10 20:39	06:27 (22) 20:39	06:03 19:58	06:37 (22) 19:02	07:17 18:07	06:59 16:25
20	07:29 16:48	06:51 17:31	07:02 19:09	06:05 19:48	05:24 20:23	06:17 (22) 20:46	05:10 20:38	06:27 (22) 20:38	06:04 19:56	06:40 (22) 19:00	07:18 18:05	07:00 16:24
21	07:28 16:49	06:49 17:33	07:00 19:10	06:04 19:49	05:23 20:24	06:17 (22) 20:46	05:10 20:37	06:27 (22) 20:37	06:05 19:55	06:41 (22) 18:58	07:19 18:03	07:01 16:24
22	07:27 16:50	06:48 17:34	06:58 19:11	06:02 19:50	05:22 20:25	06:18 (22) 20:47	05:11 20:36	06:27 (22) 20:36	06:06 19:53	06:43 (22) 18:56	07:21 18:02	07:03 16:23
23	07:26 16:52	06:46 17:35	06:56 19:12	06:00 19:51	05:21 20:26	06:18 (22) 20:47	05:11 20:35	06:27 (22) 20:35	06:07 19:51	06:46 (22) 18:54	07:22 18:00	07:04 16:22
24	07:25 16:53	06:45 17:37	06:54 19:14	05:59 19:53	05:20 20:27	06:18 (22) 20:47	05:11 20:33	06:28 (22) 20:33	06:09 19:49	06:49 (22) 18:52	07:23 17:58	07:05 16:21
25	07:25 16:54	06:43 17:38	06:52 19:15	05:57 19:54	05:19 20:28	06:18 (22) 20:47	05:11 20:33	06:27 (22) 20:33	06:10 19:48	06:55 (22) 18:50	07:25 17:57	07:06 16:21
26	07:24 16:56	06:41 17:39	06:50 19:16	05:55 19:55	05:18 20:29	06:18 (22) 20:47	05:12 20:32	06:27 (22) 20:32	06:11 19:46	06:48 (22) 18:48	07:26 17:55	07:08 16:20
27	07:23 16:57	06:39 17:41	06:48 19:17	05:54 19:56	05:18 20:30	06:19 (22) 20:47	05:12 20:31	06:28 (22) 20:31	06:12 19:44	06:49 (22) 18:46	07:27 17:54	07:09 16:20
28	07:22 16:59	06:38 17:42	06:47 19:19	05:52 19:58	05:17 20:31	06:19 (22) 20:47	05:13 20:30	06:28 (22) 20:30	06:13 19:42	06:50 (22) 18:45	07:29 17:52	07:10 16:19
29	07:21 17:00		06:45 19:20	05:51 19:59	05:16 20:32	06:19 (22) 20:47	05:13 20:29	06:28 (22) 20:29	06:15 19:41	06:52 (22) 18:43	07:30 17:51	07:11 16:18
30	07:20 17:01		06:43 19:21	05:49 20:00	05:16 20:33	06:20 (22) 20:47	05:14 20:28	06:29 (22) 20:28	06:16 19:39	06:53 (22) 18:41	07:31 17:49	07:13 16:18
31	07:18 17:03		06:41 19:22		05:15 20:34	06:20 (22) 20:47	05:15 20:27	06:27 (22) 20:27	06:17 19:37	06:54 (22) 18:41	07:33 17:48	07:14 16:25
Potential sun hours	286	291	369	404	459	466	472	436		376	341	275
Total, worst case				556	2099	1827	2067	1341				
Sun reduction				0.49	0.56	0.59	0.64	0.60				
Oper. time red.				1.00	1.00	1.00	1.00	1.00				
Wind dir. red.				0.76	0.76	0.76	0.76	0.76				
Total reduction				0.37	0.43	0.45	0.49	0.46				
Total, real				208	897	823	1010	614				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 47

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 174 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (763)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	13:16 (26)	07:17	06:36	07:05 (30)	06:39	07:19 (28)	05:48	05:14	05:59 (24)	
2	07:35	13:17 (26)	07:16	06:34	07:05 (30)	06:37	07:19 (28)	05:46	05:14	05:59 (24)	
3	07:35	13:18 (26)	07:15	06:32	07:04 (30)	06:35	07:19 (28)	05:45	05:13	05:59 (24)	
4	07:35	13:19 (26)	07:14	06:31	07:04 (30)	06:34	07:20 (28)	05:43	05:13	05:59 (24)	
5	07:35	13:20 (26)	07:12	06:29	07:05 (30)	06:32	07:21 (28)	05:42	05:12	05:59 (24)	
6	07:35	13:21 (26)	07:11	06:27	07:06 (30)	06:30	07:22 (28)	05:40	05:12	06:00 (24)	
7	07:34	13:22 (26)	07:10	06:25	07:07 (30)	06:28	07:23 (28)	05:39	05:12	06:00 (24)	
8	07:34	13:22 (26)	07:09	06:24	08:09 (30)	06:26	07:24 (28)	05:38	05:11	06:00 (24)	
9	07:34	13:24 (26)	07:07	06:22	08:12 (30)	06:24	07:27 (28)	05:36	05:10	06:00 (24)	
10	07:34	13:25 (26)	07:06	06:20	08:13 (30)	06:23	07:30 (28)	05:35	05:08	06:00 (24)	
11	07:33	13:26 (26)	07:05	06:18	08:14 (30)	06:21	07:31 (28)	05:34	05:07	06:01 (24)	
12	07:33	13:27 (26)	07:03	06:16	08:15 (30)	06:19	07:32 (28)	05:33	05:06	06:01 (24)	
13	07:33	13:28 (26)	07:02	06:14	08:16 (30)	06:17	07:33 (28)	05:31	05:04	06:01 (24)	
14	07:32	13:30 (26)	07:00	06:12	08:19 (30)	06:16	07:34 (28)	05:30	05:03	06:01 (24)	
15	07:32	13:31 (26)	06:59	06:11	08:20 (30)	06:15	07:35 (28)	05:29	05:02	06:01 (24)	
16	07:31	13:32 (26)	06:57	06:10	08:21 (30)	06:14	07:36 (28)	05:28	05:01	06:01 (24)	
17	07:30	13:34 (26)	06:56	06:09	08:22 (30)	06:13	07:37 (28)	05:27	05:00	06:01 (24)	
18	07:30	13:36 (26)	06:54	06:08	08:23 (30)	06:12	07:38 (28)	05:26	04:59	06:01 (24)	
19	07:29	13:37 (26)	06:53	06:07	08:24 (30)	06:11	07:39 (28)	05:25	04:58	06:01 (24)	
20	07:28	13:39 (26)	06:51	06:06	08:25 (30)	06:10	07:40 (28)	05:24	04:57	06:01 (24)	
21	07:28	13:41 (26)	06:49	06:05	08:26 (30)	06:09	07:41 (28)	05:23	04:56	06:01 (24)	
22	07:27	13:42 (26)	06:48	06:04	08:27 (30)	06:08	07:42 (28)	05:22	04:55	06:01 (24)	
23	07:26	13:44 (26)	06:46	06:03	08:28 (30)	06:07	07:43 (28)	05:21	04:54	06:01 (24)	
24	07:25	13:46 (26)	06:44	06:02	08:29 (30)	06:06	07:44 (28)	05:20	04:53	06:01 (24)	
25	07:24	13:48 (26)	06:42	06:01	08:30 (30)	06:05	07:45 (28)	05:19	04:52	06:01 (24)	
26	07:23	13:50 (26)	06:40	06:00	08:31 (30)	06:04	07:46 (28)	05:18	04:51	06:01 (24)	
27	07:23	13:52 (26)	06:38	05:59	08:32 (30)	06:03	07:47 (28)	05:17	04:50	06:01 (24)	
28	07:22	13:54 (26)	06:36	05:58	08:33 (30)	06:02	07:48 (28)	05:16	04:49	06:01 (24)	
29	07:21	13:56 (26)	06:34	05:57	08:34 (30)	06:01	07:49 (28)	05:15	04:48	06:01 (24)	
30	07:19	13:58 (26)	06:32	05:56	08:35 (30)	06:00	07:50 (28)	05:14	04:47	06:01 (24)	
31	07:18	14:00 (26)	06:30	05:55	08:36 (30)	05:59	07:51 (28)	05:13	04:46	06:01 (24)	
Potential sun hours	286	291	369	404	459	466					
Total, worst case	1202	134	841	274	1200	1670					
Sun reduction	0.41	0.48	0.51	0.49	0.56	0.59					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.71	0.63	0.69	0.69	0.78	0.78					
Total reduction	0.29	0.30	0.35	0.34	0.43	0.46					
Total, real	345	40	294	92	522	765					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 174 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (763)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	06:05 (24)	05:42	06:16 (24)	06:18	06:54	17:54 (Alt 9)	06:34	07:14	13:08 (26)	
2	05:15	06:05 (24)	05:43	06:17 (24)	06:19	07:28 (28)	06:55	18:11 (Alt 9)	16:46	16:18	56 14:04 (26)
3	05:15	06:05 (24)	05:44	06:19 (24)	06:20	07:37 (28)	18:37	17:53 (Alt 9)	06:35	07:15	58 13:07 (26)
4	05:16	06:05 (24)	05:45	06:21 (24)	06:22	07:41 (28)	18:35	17:52 (Alt 9)	06:37	16:17	59 14:05 (26)
5	05:16	06:05 (24)	05:46	06:22 (24)	06:23	07:44 (28)	18:33	17:51 (Alt 9)	06:38	16:17	60 14:07 (26)
6	05:17	06:06 (24)	05:47	06:24 (24)	06:24	07:45 (28)	18:31	17:47 (30)	06:40	16:16	61 14:08 (26)
7	05:18	06:07 (24)	05:49	06:27 (24)	06:25	07:46 (28)	18:30	17:44 (30)	06:41	16:16	62 14:09 (26)
8	05:19	06:08 (24)	05:50	06:30 (24)	06:26	07:47 (28)	18:28	17:43 (30)	06:42	16:16	63 14:10 (26)
9	05:19	06:09 (24)	05:51	06:33 (24)	06:27	07:48 (28)	18:26	17:41 (30)	06:44	16:16	63 14:10 (26)
10	05:20	06:10 (24)	05:52	06:36 (24)	06:28	07:49 (28)	18:24	17:40 (30)	06:45	16:16	64 14:11 (26)
11	05:21	06:11 (24)	05:53	06:39 (24)	06:29	07:50 (28)	18:22	17:39 (30)	06:46	16:16	65 14:12 (26)
12	05:22	06:12 (24)	05:54	06:42 (24)	06:30	07:51 (28)	18:20	17:38 (30)	06:47	16:16	65 14:13 (26)
13	05:23	06:13 (24)	05:55	06:45 (24)	06:31	07:52 (28)	18:18	17:37 (30)	06:48	16:16	65 14:13 (26)
14	05:23	06:14 (24)	05:56	06:48 (24)	06:32	07:53 (28)	18:16	17:36 (30)	06:49	16:16	66 14:13 (26)
15	05:24	06:15 (24)	05:57	06:51 (24)	06:33	07:54 (28)	18:14	17:35 (30)	06:50	16:16	66 14:14 (26)
16	05:25	06:16 (24)	05:58	06:54 (24)	06:34	07:55 (28)	18:12	17:34 (30)	06:51	16:16	67 14:15 (26)
17	05:26	06:17 (24)	05:59	06:57 (24)	06:35	07:56 (28)	18:10	17:33 (30)	06:52	16:16	67 14:16 (26)
18	05:27	06:18 (24)	06:00	07:00 (24)	06:36	07:57 (28)	18:08	17:32 (30)	06:53	16:16	67 14:16 (26)
19	05:28	06:19 (24)	06:01	07:03 (24)	06:37	07:58 (28)	18:06	17:31 (30)	06:54	16:16	67 14:16 (26)
20	05:29	06:20 (24)	06:02	07:06 (24)	06:38	07:59 (28)	18:04	17:30 (30)	06:55	16:16	67 14:16 (26)
21	05:30	06:21 (24)	06:03	07:09 (24)	06:39	08:00 (28)	18:02	17:29 (30)	06:56	16:16	67 14:16 (26)
22	05:31	06:22 (24)	06:04	07:12 (24)	06:40	08:01 (28)	18:00	17:28 (30)	06:57	16:16	67 14:16 (26)
23	05:32	06:23 (24)	06:05	07:15 (24)	06:41	08:02 (28)	17:58	17:27 (30)	06:58	16:16	67 14:16 (26)
24	05:33	06:24 (24)	06:06	07:18 (24)	06:42	08:03 (28)	17:56	17:26 (30)	06:59	16:16	67 14:16 (26)
25	05:34	06:25 (24)	06:07	07:21 (24)	06:43	08:04 (28)	17:54	17:25 (30)	07:00	16:16	67 14:16 (26)
26	05:35	06:26 (24)	06:08	07:24 (24)	06:44	08:05 (28)	17:52	17:24 (30)	07:01	16:16	67 14:16 (26)
27	05:36	06:27 (24)	06:09	07:27 (24)	06:45	08:06 (28)	17:50	17:23 (30)	07:02	16:16	67 14:16 (26)
28	05:37	06:28 (24)	06:10	07:30 (24)	06:46	08:07 (28)	17:48	17:22 (30)	07:03	16:16	67 14:16 (26)
29	05:38	06:29 (24)	06:11	07:33 (24)	06:47	08:08 (28)	17:46	17:21 (30)	07:04	16:16	67 14:16 (26)
30	05:39	06:30 (24)	06:12	07:36 (24)	06:48	08:09 (28)	17:44	17:20 (30)	07:05	16:16	67 14:16 (26)
31	05:41	06:32 (24)	06:14	07:39 (24)	06:49	08:10 (28)	17:42	17:19 (30)	07:06	16:16	67 14:16 (26)
Potential sun hours	472	436	376	341	288	275	208	163	133	103	73
Total, worst case	1633	215	788	477	525	208	163	133	103	73	47
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.33	0.33	0.33	0.33	0.33	0.33
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.78	0.78	0.69	0.67	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Total reduction	0.50	0.47	0.37	0.31	0.22	0.23	0.23	0.23	0.23	0.23	0.23
Total, real	811	100	293	149	114	464					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 175 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (764)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35		07:17		07:47 (28)	06:36		06:39		07:43 (24)	05:48	05:14
	16:26		17:04	26	08:13 (30)	17:44		19:24	64	08:47 (24)	20:00	20:34
2	07:35		07:16		07:45 (28)	06:34		06:37		07:43 (24)	05:46	05:14
	16:27		17:06	29	08:14 (30)	17:45		19:25	63	08:46 (24)	20:01	20:35
3	07:35		07:15		07:44 (28)	06:32		06:35		07:43 (24)	05:45	05:13
	16:28		17:07	30	08:14 (30)	17:46		19:26	62	08:45 (24)	20:02	20:36
4	07:35		07:14		07:43 (28)	06:31		07:18 (24)	06:34	07:44 (24)	05:43	05:13
	16:29		17:08	31	08:14 (30)	17:48	11	07:29 (24)	19:27	60	08:44 (24)	20:04
5	07:35		07:12		07:41 (28)	06:29		07:12 (24)	06:32		07:44 (24)	05:42
	16:30		17:10	32	08:13 (28)	17:49	23	07:35 (24)	19:29	59	08:43 (24)	20:05
6	07:35		07:11		07:41 (28)	06:27		07:09 (24)	06:30		07:45 (24)	05:40
	16:31		17:11	34	08:15 (28)	17:50	30	07:39 (24)	19:30	56	08:41 (24)	20:06
7	07:34		07:10		07:41 (28)	06:25		07:05 (24)	06:28		07:45 (24)	05:39
	16:32		17:13	35	08:16 (28)	17:52	37	07:42 (24)	19:31	55	08:40 (24)	20:07
8	07:34		07:09		07:39 (28)	07:24		08:03 (24)	06:26		07:46 (24)	05:38
	16:33		17:14	37	08:16 (28)	18:53	40	08:43 (24)	19:32	52	08:38 (24)	20:09
9	07:34		07:07		07:39 (28)	07:22		08:00 (24)	06:24		07:47 (24)	05:36
	16:34		17:16	38	08:17 (28)	18:54	45	08:45 (24)	19:34	50	08:37 (24)	20:10
10	07:34		07:06		07:38 (28)	07:20		07:58 (24)	06:23		07:48 (24)	05:35
	16:35		17:17	39	08:17 (28)	18:56	48	08:46 (24)	19:35	47	08:35 (24)	20:11
11	07:33		07:05		07:38 (28)	07:18		07:57 (24)	06:21		07:49 (24)	05:34
	16:36		17:18	40	08:18 (28)	18:57	51	08:48 (24)	19:36	44	08:33 (24)	20:12
12	07:33		07:03		07:37 (28)	07:16		07:56 (24)	06:19		07:50 (24)	05:33
	16:37		17:20	41	08:18 (28)	18:58	53	08:49 (24)	19:38	40	08:30 (24)	20:13
13	07:33		07:02		07:38 (28)	07:14		07:54 (24)	06:17		07:51 (24)	05:31
	16:39		17:21	41	08:19 (28)	18:59	56	08:50 (24)	19:39	37	08:28 (24)	20:15
14	07:32		07:00		07:37 (28)	07:13		07:52 (24)	06:16		07:54 (24)	05:30
	16:40		17:23	41	08:18 (28)	19:01	59	08:51 (24)	19:40	32	08:26 (24)	20:16
15	07:32		06:59		07:37 (28)	07:11		07:51 (24)	06:14		07:56 (24)	05:29
	16:41		17:24	42	08:19 (28)	19:02	60	08:51 (24)	19:41	26	08:22 (24)	20:17
16	07:31		06:57		07:37 (28)	07:09		07:50 (24)	06:12		07:59 (24)	05:28
	16:42		17:26	41	08:18 (28)	19:03	62	08:52 (24)	19:43	19	08:18 (24)	20:18
17	07:30		06:56		07:38 (28)	07:07		07:49 (24)	06:10			05:27
	16:44		17:27	41	08:19 (28)	19:05	63	08:52 (24)	19:44		20:19	20:45
18	07:30		06:54		07:38 (28)	07:05		07:48 (24)	06:09		05:26	05:10
	16:45		17:28	40	08:18 (28)	19:06	64	08:52 (24)	19:45		20:20	20:45
19	07:29		06:53		07:38 (28)	07:03		07:48 (24)	06:07		05:25	05:10
	16:46		17:30	40	08:18 (28)	19:07	65	08:53 (24)	19:46		20:21	20:46
20	07:28		06:51		07:39 (28)	07:01		07:47 (24)	06:05		05:24	05:10
	16:48		17:31	38	08:17 (28)	19:08	66	08:53 (24)	19:48		20:23	20:46
21	07:28		07:55 (30)	06:49	07:39 (28)	07:00		07:46 (24)	06:03		05:23	05:10
	16:49	8	08:03 (30)	17:33	08:16 (28)	19:10	67	08:53 (24)	19:49		20:24	20:46
22	07:27		07:53 (30)	06:48	07:40 (28)	06:58		07:45 (24)	06:02		05:22	05:11
	16:50	12	08:05 (30)	17:34	08:16 (28)	19:11	68	08:53 (24)	19:50		20:25	20:47
23	07:26		07:52 (30)	06:46	07:41 (28)	06:56		07:45 (24)	06:00		05:21	05:11
	16:52	15	08:07 (30)	17:35	08:14 (28)	19:12	67	08:52 (24)	19:51		20:26	20:47
24	07:25		07:51 (30)	06:44	07:41 (28)	06:54		07:44 (24)	05:59		05:20	05:11
	16:53	17	08:08 (30)	17:37	08:13 (28)	19:14	68	08:52 (24)	19:53		20:27	20:47
25	07:24		07:50 (30)	06:43	07:43 (28)	06:52		07:43 (24)	05:57		05:19	05:11
	16:54	19	08:09 (30)	17:38	08:12 (28)	19:15	69	08:52 (24)	19:54		20:28	20:47
26	07:24		07:50 (30)	06:41	07:44 (28)	06:50		07:43 (24)	05:55		05:18	05:12
	16:56	20	08:10 (30)	17:39	08:09 (28)	19:16	68	08:51 (24)	19:55		20:29	20:47
27	07:23		07:49 (30)	06:39	07:46 (28)	06:48		07:43 (24)	05:54		05:18	05:12
	16:57	22	08:11 (30)	17:41	08:07 (28)	19:17	67	08:50 (24)	19:56		20:30	20:47
28	07:22		07:49 (30)	06:38	07:49 (28)	06:47		07:43 (24)	05:52		05:17	05:13
	16:59	23	08:12 (30)	17:42	08:03 (28)	19:19	68	08:51 (24)	19:58		20:31	20:47
29	07:21		07:49 (30)			06:45		07:43 (24)	05:51		05:16	05:13
	17:00	24	08:13 (30)			19:20	67	08:50 (24)	19:59		20:32	20:47
30	07:19		07:49 (30)			06:43		07:43 (24)	05:49		05:16	05:14
	17:01	24	08:13 (30)			19:21	66	08:49 (24)	20:00		20:33	20:47
31	07:18		07:48 (30)			06:41		07:43 (24)			05:15	
	17:03	25	08:13 (30)			19:22	65	08:48 (24)			20:34	
Potential sun hours	286		291		369		404		459		466	
Total, worst case		209		963		1573		766				
Sun reduction		0.41		0.48		0.51		0.49				
Oper. time red.		1.00		1.00		1.00		1.00				
Wind dir. red.		0.55		0.57		0.65		0.65				
Total reduction		0.22		0.27		0.33		0.31				
Total, real		47		260		515		241				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 50

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 175 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (764)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42		06:18	07:48 (24)	06:54		07:34 (24)	06:34	07:08 (28)	07:14
	20:47	20:25		19:35	08:32 (24)	18:39		08:28 (24)	16:46	07:47 (28)	16:18
2	05:15	05:43		06:19	07:46 (24)	06:55		07:34 (24)	06:35	07:09 (28)	07:15
	20:47	20:24		19:33	08:33 (24)	18:37		08:27 (24)	16:45	07:47 (28)	16:17
3	05:15	05:44		06:20	07:44 (24)	06:56		07:36 (24)	06:37	07:09 (28)	07:16
	20:47	20:23		19:32	08:34 (24)	18:35		08:26 (24)	16:44	07:46 (28)	16:17
4	05:16	05:45		06:22	07:44 (24)	06:58		07:37 (24)	06:38	07:09 (28)	07:17
	20:46	20:21		19:30	08:36 (24)	18:33		08:24 (24)	16:42	07:45 (28)	16:17
5	05:16	05:46		06:23	07:42 (24)	06:59		07:39 (24)	06:40	07:11 (28)	07:18
	20:46	20:20		19:28	08:37 (24)	18:31		08:21 (24)	16:41	07:44 (28)	16:16
6	05:17	05:47		06:24	07:41 (24)	07:00		07:40 (24)	06:41	07:11 (28)	07:19
	20:46	20:19		19:26	08:37 (24)	18:30		08:18 (24)	16:40	07:43 (28)	16:16
7	05:18	05:49		06:25	07:39 (24)	07:01		07:43 (24)	06:42	07:13 (28)	07:20
	20:46	20:17		19:24	08:38 (24)	18:28		08:16 (24)	16:38	07:44 (30)	16:16
8	05:19	05:50		06:26	07:38 (24)	07:03		07:46 (24)	06:44	07:14 (28)	07:21
	20:45	20:16		19:22	08:38 (24)	18:26		08:13 (24)	16:37	07:44 (30)	16:16
9	05:19	05:51		06:28	07:37 (24)	07:04		07:49 (24)	06:45	07:16 (28)	07:22
	20:45	20:15		19:20	08:39 (24)	18:24		08:08 (24)	16:36	07:45 (30)	16:16
10	05:20	05:52		06:29	07:36 (24)	07:05			06:46	07:18 (28)	07:23
	20:44	20:13		19:19	08:39 (24)	18:22			16:35	07:44 (30)	16:16
11	05:21	05:53		06:30	07:35 (24)	07:06			06:48	07:20 (30)	07:24
	20:44	20:12		19:17	08:39 (24)	18:20			16:33	07:45 (30)	16:16
12	05:22	05:54		06:31	07:35 (24)	07:08			06:49	07:20 (30)	07:25
	20:43	20:10		19:15	08:40 (24)	18:19			16:32	07:44 (30)	16:16
13	05:22	05:56		06:32	07:34 (24)	07:09		08:25 (28)	06:51	07:21 (30)	07:26
	20:43	20:09		19:13	08:40 (24)	18:17		08:33 (28)	16:31	07:45 (30)	16:16
14	05:23	05:57		06:33	07:33 (24)	07:10		08:21 (28)	06:52	07:21 (30)	07:26
	20:42	20:07		19:11	08:40 (24)	18:15		08:38 (28)	16:30	07:44 (30)	16:16
15	05:24	05:58		06:35	07:33 (24)	07:11		08:18 (28)	06:53	07:22 (30)	07:27
	20:41	20:06		19:09	08:40 (24)	18:13		08:40 (28)	16:29	07:44 (30)	16:16
16	05:25	05:59		06:36	07:32 (24)	07:13		08:15 (28)	06:55	07:22 (30)	07:28
	20:41	20:04		19:07	08:40 (24)	18:12		08:42 (28)	16:28	07:43 (30)	16:16
17	05:26	06:00		06:37	07:31 (24)	07:14		08:14 (28)	06:56	07:23 (30)	07:29
	20:40	20:03		19:05	08:39 (24)	18:10		08:44 (28)	16:27	07:42 (30)	16:17
18	05:27	06:01		06:38	07:32 (24)	07:15		08:12 (28)	06:57	07:25 (30)	07:29
	20:39	20:01		19:03	08:40 (24)	18:08		08:44 (28)	16:26	07:42 (30)	16:17
19	05:28	06:03		06:39	07:31 (24)	07:17		08:12 (28)	06:59	07:26 (30)	07:30
	20:39	19:58		19:02	08:39 (24)	18:07		08:46 (28)	16:25	07:41 (30)	16:17
20	05:29	06:04		06:41	07:31 (24)	07:18		08:10 (28)	07:00	07:28 (30)	07:31
	20:38	19:56		19:00	08:39 (24)	18:05		08:46 (28)	16:24	07:40 (30)	16:18
21	05:30	06:05		06:42	07:31 (24)	07:19		08:09 (28)	07:01	07:30 (30)	07:31
	20:37	19:54		18:58	08:38 (24)	18:03		08:47 (28)	16:24	07:38 (30)	16:18
22	05:31	06:06		06:43	07:30 (24)	07:21		08:09 (28)	07:03		07:32
	20:36	19:53		18:56	08:37 (24)	18:02		08:48 (28)	16:23		16:19
23	05:32	06:07		06:44	07:30 (24)	07:22		08:08 (28)	07:04		07:32
	20:35	19:51		18:54	08:37 (24)	18:00		08:48 (28)	16:22		16:19
24	05:33	06:09		06:45	07:31 (24)	07:23		08:08 (28)	07:05		07:33
	20:34	19:49		18:52	08:37 (24)	17:58		08:49 (28)	16:21		16:20
25	05:34	06:10		06:47	07:31 (24)	07:25		08:07 (28)	07:06		07:33
	20:33	19:48		18:50	08:36 (24)	17:57		08:48 (28)	16:21		16:20
26	05:35	06:11		06:48	07:31 (24)	07:26		08:07 (28)	07:08		07:33
	20:32	19:46	4	08:13 (24)	18:48	64	08:35 (24)	17:55	41	08:48 (28)	16:20
27	05:36	06:12		08:01 (24)	06:49		07:31 (24)	07:27		08:07 (28)	07:09
	20:31	19:44	19	08:20 (24)	18:46	62	08:33 (24)	17:54	42	08:49 (28)	16:20
28	05:37	06:13		07:58 (24)	06:50		07:31 (24)	07:29		08:07 (28)	07:10
	20:30	19:42	26	08:24 (24)	18:44	61	08:32 (24)	17:52	41	08:48 (28)	16:19
29	05:38	06:15		07:55 (24)	06:51		07:33 (24)	07:30		08:07 (28)	07:11
	20:29	19:41	32	08:27 (24)	18:43	59	08:32 (24)	17:51	41	08:48 (28)	16:18
30	05:39	06:16		07:52 (24)	06:53		07:33 (24)	07:31		08:07 (28)	07:12
	20:28	19:39	37	08:29 (24)	18:41	57	08:30 (24)	17:49	41	08:48 (28)	16:18
31	05:41	06:17		07:50 (24)				07:33		08:08 (28)	
	20:26	19:37	40	08:30 (24)				17:48	40	08:48 (28)	
Potential sun hours	472	436		376			341		288		275
Total, worst case		158		1852			1014		541		
Sun reduction		0.60		0.54			0.47		0.31		
Oper. time red.		1.00		1.00			1.00		1.00		
Wind dir. red.		0.65		0.65			0.60		0.55		
Total reduction		0.39		0.35			0.28		0.17		
Total, real		61		642			283		92		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 51

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 176 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (765)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	08:07 (24)	07:17	08:13 (24)	06:36	06:39		05:48		06:24 (23)	05:14
	16:26	38	08:45 (24)	17:04	08:56 (24)	17:44	19:24	20:00	99	19:32 (17)	20:34
2	07:35		08:06 (24)	07:16	08:14 (24)	06:34	06:37	05:46		06:22 (23)	05:14
	16:27	38	08:44 (24)	17:06	08:56 (24)	17:45	19:25	20:01	102	19:31 (17)	20:35
3	07:35		08:06 (24)	07:15	08:16 (24)	06:32	06:35	05:45		06:21 (23)	05:13
	16:28	39	08:45 (24)	17:07	08:56 (24)	17:46	19:26	20:02	104	19:32 (17)	20:36
4	07:35		08:06 (24)	07:14	08:17 (24)	06:31	06:34	05:43		06:21 (23)	05:13
	16:29	40	08:46 (24)	17:08	08:55 (24)	17:48	19:27	20:04	105	19:32 (17)	20:37
5	07:35		08:07 (24)	07:13	08:17 (24)	06:29	06:32	05:42		06:20 (23)	05:12
	16:30	40	08:47 (24)	17:10	08:54 (24)	17:49	19:29	20:05	105	19:31 (17)	20:38
6	07:35		08:07 (24)	07:11	08:19 (24)	06:27	06:30	05:40		06:19 (23)	05:12
	16:31	41	08:48 (24)	17:11	08:53 (24)	17:50	19:30	20:06	106	19:31 (17)	20:39
7	07:34		08:07 (24)	07:10	08:20 (24)	06:25	06:28	05:39		06:19 (23)	05:12
	16:32	42	08:49 (24)	17:13	08:52 (24)	17:52	19:31	20:07	107	19:31 (17)	20:39
8	07:34		08:07 (24)	07:09	08:22 (24)	07:24	06:26	05:38		06:18 (23)	05:11
	16:33	42	08:49 (24)	17:14	08:49 (24)	18:53	19:32	20:09	106	19:30 (17)	20:40
9	07:34		08:07 (24)	07:07	08:24 (24)	07:22	06:24	05:36		06:18 (23)	05:11
	16:34	43	08:50 (24)	17:16	08:48 (24)	18:54	19:34	20:10	107	19:30 (17)	20:41
10	07:34		08:08 (24)	07:06	08:26 (24)	07:20	06:23	05:35		06:17 (23)	05:11
	16:35	43	08:51 (24)	17:17	08:45 (24)	18:56	19:35	20:11	106	19:29 (17)	20:41
11	07:33		08:07 (24)	07:05	08:30 (24)	07:18	06:21	05:34		06:17 (23)	05:10
	16:36	44	08:51 (24)	17:18	08:41 (24)	18:57	19:36	20:12	106	19:29 (17)	20:42
12	07:33		08:08 (24)	07:03		07:16	06:19	05:33		06:16 (23)	05:10
	16:37	44	08:52 (24)	17:20		18:58	19:38	20:13	106	19:28 (17)	20:43
13	07:33		08:07 (24)	07:02		07:14	06:17	05:31		06:16 (23)	05:10
	16:39	46	08:53 (24)	17:21		18:59	19:39	20:15	104	19:27 (17)	20:43
14	07:32		08:08 (24)	07:00		07:13	06:16	05:30		06:16 (23)	05:10
	16:40	46	08:54 (24)	17:23		19:01	19:40	20:16	102	19:26 (17)	20:44
15	07:32		08:08 (24)	06:59		07:11	06:14	05:29		06:16 (23)	05:10
	16:41	46	08:54 (24)	17:24		19:02	19:41	20:17	102	19:26 (17)	20:44
16	07:31		08:08 (24)	06:57		07:09	06:12	05:28		06:16 (23)	05:10
	16:42	46	08:54 (24)	17:26		19:03	19:43	20:18	100	19:25 (17)	20:45
17	07:30		08:08 (24)	06:56		07:07	06:10	05:27		06:16 (23)	05:10
	16:44	47	08:55 (24)	17:27		19:05	19:44	20:19	98	19:24 (17)	20:45
18	07:30		08:08 (24)	06:54		07:05	06:09	05:26		06:16 (23)	05:10
	16:45	48	08:56 (24)	17:28		19:06	19:45	20:20	96	19:23 (17)	20:45
19	07:29		08:08 (24)	06:53		07:03	06:07	05:25		06:16 (23)	05:10
	16:46	48	08:56 (24)	17:30		19:07	19:46	20:21	94	19:22 (17)	20:46
20	07:29		08:08 (24)	06:51		07:01	06:05	05:24		06:16 (23)	05:10
	16:48	48	08:56 (24)	17:31		19:08	19:48	20:23	91	19:21 (17)	20:46
21	07:28		08:09 (24)	06:49		07:00	06:03	05:23		06:16 (23)	05:10
	16:49	48	08:57 (24)	17:33		19:10	19:49	20:24	87	19:19 (17)	20:46
22	07:27		08:09 (24)	06:48		06:58	06:02	05:22		06:17 (23)	05:11
	16:50	48	08:57 (24)	17:34		19:11	19:50	20:25	85	19:19 (17)	20:47
23	07:26		08:10 (24)	06:46		06:56	06:00	05:21		06:17 (23)	05:11
	16:52	48	08:58 (24)	17:35		19:12	19:51	20:26	81	19:17 (17)	20:47
24	07:25		08:10 (24)	06:44		06:54	05:59	05:20		06:17 (23)	05:11
	16:53	48	08:58 (24)	17:37		19:14	19:53	20:27	75	19:14 (17)	20:47
25	07:24		08:10 (24)	06:43		06:52	05:57	05:19		06:17 (23)	05:11
	16:54	48	08:58 (24)	17:38		19:15	19:54	20:28	65	07:22 (23)	20:47
26	07:24		08:11 (24)	06:41		06:50	05:55	05:18		06:16 (23)	05:12
	16:56	47	08:58 (24)	17:39		19:16	19:55	20:29	66	07:22 (23)	20:47
27	07:23		08:11 (24)	06:39		06:48	05:54	05:18		06:17 (23)	05:12
	16:57	47	08:58 (24)	17:41		19:17	19:56	20:30	66	07:23 (23)	20:47
28	07:22		08:11 (24)	06:38		06:47	05:52	05:17		06:17 (23)	05:13
	16:59	47	08:58 (24)	17:42		19:19	19:58	20:31	65	07:22 (23)	20:47
29	07:21		08:12 (24)			06:45	05:51	05:16		06:17 (23)	05:13
	17:00	46	08:58 (24)			19:20	19:59	20:32	65	07:22 (23)	20:47
30	07:19		08:13 (24)			06:43	05:49	05:16		06:18 (23)	05:14
	17:01	45	08:58 (24)			19:21	20:00	20:33	64	07:22 (23)	20:47
31	07:18		08:13 (24)			06:41		05:15		06:18 (23)	
	17:03	44	08:57 (24)			19:22		20:34	64	07:22 (23)	
Potential sun hours	286		291		369	404		459		466	
Total, worst case		1385		347		881		2829		1783	
Sun reduction	0.41		0.48			0.49		0.56		0.59	
Oper. time red.	1.00		1.00			1.00		1.00		1.00	
Wind dir. red.	0.52		0.52			0.70		0.73		0.77	
Total reduction	0.21		0.24			0.33		0.40		0.44	
Total, real	284		84			291		1121		782	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 176 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (765)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September/October		November		December	
1	05:14	06:27 (23)	05:42	06:27 (23)	06:18	06:54	06:34	07:55 (24)	07:14
2	05:15	06:26 (23)	05:43	06:27 (23)	06:19	06:55	06:35	07:53 (24)	07:15
3	05:15	06:27 (23)	05:44	06:28 (23)	06:20	06:56	06:37	07:51 (24)	07:16
4	05:16	06:26 (23)	05:45	06:28 (23)	06:22	06:58	06:38	07:49 (24)	07:17
5	05:16	06:26 (23)	05:46	06:29 (23)	06:23	06:59	06:40	07:48 (24)	07:18
6	05:17	06:27 (23)	05:47	06:29 (23)	06:24	07:00	06:41	07:47 (24)	07:19
7	05:18	06:26 (23)	05:49	06:29 (23)	06:25	07:01	06:42	07:47 (24)	07:20
8	05:19	06:26 (23)	05:50	06:29 (23)	06:26	07:03	06:44	07:45 (24)	07:21
9	05:19	06:27 (23)	05:51	06:30 (23)	06:28	07:04	06:45	07:45 (24)	07:22
10	05:20	06:27 (23)	05:52	06:30 (23)	06:29	07:05	06:46	07:44 (24)	07:23
11	05:21	06:26 (23)	05:53	06:31 (23)	06:30	07:06	06:48	07:44 (24)	07:24
12	05:22	06:26 (23)	05:54	06:31 (23)	06:31	07:08	06:49	07:44 (24)	07:25
13	05:22	06:26 (23)	05:56	06:33 (23)	06:32	07:09	06:51	07:44 (24)	07:26
14	05:23	06:27 (23)	05:57	06:34 (23)	06:33	07:10	06:52	07:43 (24)	07:26
15	05:24	06:27 (23)	05:58	06:35 (23)	06:35	07:11	06:53	07:44 (24)	07:27
16	05:25	06:26 (23)	05:59	06:36 (23)	06:36	07:13	06:55	07:43 (24)	07:28
17	05:26	06:26 (23)	06:00	06:37 (23)	06:37	07:14	06:56	07:43 (24)	07:29
18	05:27	06:26 (23)	06:01	06:39 (23)	06:38	07:15	06:57	07:44 (24)	07:29
19	05:28	06:26 (23)	06:03	06:40 (23)	06:39	07:17	06:59	07:44 (24)	07:30
20	05:29	06:26 (23)	06:04	06:43 (23)	06:41	07:18	07:00	07:44 (24)	07:31
21	05:30	06:26 (23)	06:05	06:46 (23)	06:42	07:19	07:01	07:44 (24)	07:31
22	05:31	06:26 (23)	06:06	06:51 (23)	06:43	07:21	07:03	07:44 (24)	07:32
23	05:32	06:26 (23)	06:07	06:52 (23)	06:44	07:22	07:04	07:45 (24)	07:32
24	05:33	06:26 (23)	06:09	06:53 (23)	06:45	07:23	07:05	07:45 (24)	07:33
25	05:34	06:26 (23)	06:10	06:54 (23)	06:46	07:24	07:06	07:46 (24)	07:33
26	05:35	06:26 (23)	06:11	06:55 (23)	06:47	07:25	07:07	07:47 (24)	07:33
27	05:36	06:26 (23)	06:12	06:56 (23)	06:48	07:26	07:08	07:47 (24)	07:33
28	05:37	06:26 (23)	06:13	06:57 (23)	06:49	07:27	07:09	07:47 (24)	07:34
29	05:38	06:27 (23)	06:15	06:58 (23)	06:51	07:29	07:11	07:48 (24)	07:34
30	05:39	06:27 (23)	06:16	06:59 (23)	06:52	07:31	07:12	07:49 (24)	07:34
31	05:41	06:27 (23)	06:17	07:00 (23)	06:53	07:33	07:13	07:50 (24)	07:35
Potential sun hours	472	436	376	341	288	275	1190	0.64	0.33
Total, worst case	2327	2125	13	0.47	0.31	0.33	1.00	0.51	0.16
Sun reduction	0.64	0.60	0.47	0.31	0.33	1.00	0.51	0.16	0.16
Oper. time red.	1.00	1.00	0.52	0.24	0.16	0.16	0.16	0.16	0.16
Wind dir. red.	0.75	0.71	0.52	0.24	0.16	0.16	0.16	0.16	0.16
Total reduction	0.46	0.41	0.24	0.16	0.16	0.16	0.16	0.16	0.16
Total, real	1081	874	3	199	195	195	195	195	195

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 177 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (766)****Assumptions for shadow calculations**

Sunshine probability S/50 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	07:17	07:47 (23)	06:36	07:53 (23)	06:39		05:48	18:53 (16)	05:14	20:00 (15)
	16:26	17:04	45	08:32 (23)	17:44	75	17:13 (17)	19:24	20:00	19:23 (16)	20:34
2	07:35	07:16	07:47 (23)	06:34	07:55 (23)	06:37		05:46	18:53 (16)	05:14	19:59 (15)
	16:27	17:06	46	08:33 (23)	17:45	70	17:13 (17)	19:25	20:01	19:22 (16)	20:35
3	07:35	07:15	07:46 (23)	06:32	07:57 (23)	06:35		05:45	18:55 (16)	05:13	19:59 (15)
	16:28	17:07	49	08:35 (23)	17:46	64	17:12 (17)	19:26	20:03	19:21 (16)	20:36
4	07:35	07:14	07:46 (23)	06:31	08:01 (23)	06:34		05:43	18:56 (16)	05:13	19:59 (15)
	16:29	17:08	50	08:36 (23)	17:48	54	17:11 (17)	19:27	20:04	19:19 (16)	20:37
5	07:35	07:13	07:45 (23)	06:29	16:30 (17)	06:32		05:42	18:57 (16)	05:12	19:59 (15)
	16:30	17:10	51	08:36 (23)	17:49	40	17:10 (17)	19:29	20:05	19:17 (16)	20:38
6	07:35	07:11	07:45 (23)	06:27	16:31 (17)	06:30		05:40	19:00 (16)	05:12	19:59 (15)
	16:31	17:11	52	08:37 (23)	17:50	39	17:10 (17)	19:30	20:06	19:15 (16)	20:39
7	07:34	07:10	07:45 (23)	06:25	16:32 (17)	06:28		05:39	19:04 (16)	05:12	19:58 (15)
	16:32	17:13	53	08:38 (23)	17:52	37	17:09 (17)	19:31	20:07	19:11 (16)	20:39
8	07:34	07:09	07:44 (23)	07:24	17:33 (17)	06:26		05:38	19:04 (16)	05:11	19:59 (15)
	16:33	17:14	54	08:38 (23)	18:53	34	18:07 (17)	19:32	20:09	20:40	20:13 (15)
9	07:34	07:07	07:44 (23)	07:22	17:34 (17)	06:24		19:04 (16)	05:36	05:11	19:59 (15)
	16:34	17:16	54	08:38 (23)	18:54	31	18:05 (17)	19:34	7	19:11 (16)	20:10
10	07:34	07:06	07:43 (23)	07:20	17:35 (17)	06:23		19:01 (16)	05:35	05:11	19:59 (15)
	16:35	17:17	55	08:38 (23)	18:56	28	18:03 (17)	19:35	11	19:12 (16)	20:11
11	07:33	07:05	07:43 (23)	07:18	17:38 (17)	06:21		18:59 (16)	05:34	05:10	20:00 (15)
	16:36	17:18	56	08:39 (23)	18:57	24	18:02 (17)	19:36	14	19:13 (16)	20:12
12	07:33	07:03	07:43 (23)	07:16	17:40 (17)	06:19		18:57 (16)	05:33	05:10	19:59 (15)
	16:37	17:20	55	08:38 (23)	18:58	19	17:59 (17)	19:38	17	19:14 (16)	20:13
13	07:33	07:02	07:43 (23)	07:14	17:44 (17)	06:17		18:55 (16)	05:31	05:10	19:59 (15)
	16:39	17:21	68	16:57 (17)	18:59	10	17:54 (17)	19:39	20	19:15 (16)	20:15
14	07:32	07:00	07:43 (23)	07:13	06:16	06:16		18:54 (16)	05:30	05:10	19:59 (15)
	16:40	17:23	71	16:58 (17)	19:01	19:40	23	19:17 (16)	20:16	20:44	20:16 (15)
15	07:32	06:59	07:43 (23)	07:11	06:14	06:14		18:53 (16)	05:29	05:10	19:59 (15)
	16:41	17:24	76	17:00 (17)	19:02	19:41	25	19:18 (16)	20:17	20:44	20:17 (15)
16	07:31	06:57	07:43 (23)	07:09	06:12	06:12		18:52 (16)	05:28	05:10	20:00 (15)
	16:42	17:26	78	17:01 (17)	19:03	19:43	27	19:19 (16)	20:18	20:45	20:17 (15)
17	07:31	06:56	07:43 (23)	07:07	06:10	06:10		18:52 (16)	05:27	05:10	20:00 (15)
	16:44	17:27	81	17:03 (17)	19:05	19:44	28	19:20 (16)	20:19	20:45	20:17 (15)
18	07:30	06:54	07:43 (23)	07:05	06:09	06:09		18:51 (16)	05:26	05:10	20:00 (15)
	16:45	17:28	84	17:04 (17)	19:06	19:45	30	19:21 (16)	20:20	20:45	20:18 (15)
19	07:29	06:53	07:44 (23)	07:03	06:07	06:07		18:50 (16)	05:25	05:10	20:01 (15)
	16:46	17:30	86	17:06 (17)	19:07	19:46	32	19:22 (16)	20:21	20:46	20:19 (15)
20	07:29	06:51	07:44 (23)	07:01	06:05	06:05		18:50 (16)	05:24	05:10	20:01 (15)
	16:48	17:31	87	17:07 (17)	19:08	19:48	34	19:24 (16)	20:23	20:46	20:19 (15)
21	07:28	06:49	07:44 (23)	07:00	06:03	06:03		18:49 (16)	05:23	05:10	20:01 (15)
	16:49	17:33	89	17:09 (17)	19:10	19:49	36	19:25 (16)	20:24	20:46	20:19 (15)
22	07:27	06:48	07:45 (23)	06:58	06:02	06:02		18:49 (16)	05:22	05:11	20:01 (15)
	16:50	10	08:13 (23)	17:34	90	17:11 (17)	19:11	19:50	37	19:26 (16)	20:25
23	07:26	07:59 (23)	06:46	07:46 (23)	06:56	06:00		18:49 (16)	05:21	05:11	20:01 (15)
	16:52	18	08:17 (23)	17:35	89	17:12 (17)	19:12	19:51	38	19:27 (16)	20:26
24	07:25	07:57 (23)	06:44	07:46 (23)	06:54	05:59		18:49 (16)	05:20	05:11	20:02 (15)
	16:53	23	08:20 (23)	17:37	90	17:13 (17)	19:14	19:53	39	19:28 (16)	20:27
25	07:24	07:55 (23)	06:43	07:48 (23)	06:52	05:57		18:50 (16)	05:19	05:11	20:02 (15)
	16:54	27	08:22 (23)	17:38	88	17:14 (17)	19:15	19:54	38	19:28 (16)	20:28
26	07:24	07:53 (23)	06:41	07:48 (23)	06:50	05:55		18:49 (16)	05:18		20:02 (15)
	16:56	31	08:24 (23)	17:39	87	17:14 (17)	19:16	19:55	38	19:27 (16)	20:29
27	07:23	07:52 (23)	06:39	07:49 (23)	06:48	05:54		18:50 (16)	05:18	1	20:03 (15)
	16:57	34	08:26 (23)	17:41	84	17:13 (17)	19:17	19:56	37	19:27 (16)	20:30
28	07:22	07:51 (23)	06:38	07:50 (23)	06:47	05:52		18:50 (16)	05:17	2	20:04 (15)
	16:59	37	08:28 (23)	17:42	81	17:13 (17)	19:19	19:58	36	19:26 (16)	20:31
29	07:21	07:50 (23)		06:45	05:51	05:51		18:51 (16)	05:16	4	20:05 (15)
	17:00	39	08:29 (23)		19:20	19:59	35	19:26 (16)	20:32	5	20:00 (15)
30	07:19	07:49 (23)		06:43	05:49	05:49		18:51 (16)	05:16	7	20:05 (15)
	17:01	42	08:31 (23)		19:21	20:00	33	19:24 (16)	20:33	7	20:07 (15)
31	07:18	07:48 (23)		06:41				05:15	19:59 (15)	8	20:07 (15)
	17:03	43	08:31 (23)		19:22			20:34	20:07 (15)		
Potential sun hours	286		291		369		404		459		466
Total, worst case		304	1949		525		635		177		469
Sun reduction	0.41		0.48		0.51		0.49		0.56		0.59
Oper. time red.	1.00		1.00		1.00		1.00		1.00		1.00
Wind dir. red.	0.55		0.62		0.74		0.65		0.64		0.56
Total reduction	0.23		0.29		0.38		0.32		0.36		0.33
Total, real	69		574		198		202		63		153

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 177 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (766)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	20:04 (15)	05:42		06:18	18:58 (16)	06:54	17:20 (17)	06:34	07:13 (23)	07:14
2	05:15	20:03 (15)	05:43		06:19	18:59 (16)	06:55	17:16 (17)	06:35	07:14 (23)	07:15
3	05:15	20:04 (15)	05:44		06:20	19:01 (16)	06:56	17:14 (17)	06:37	07:14 (23)	07:16
4	05:16	20:19 (15)	05:23		19:32	7 19:08 (16)	18:35	27 17:41 (17)	16:44	53 08:07 (23)	16:17
5	05:16	20:04 (15)	05:45		06:22		06:58	30 17:12 (17)	06:38	52 08:06 (23)	16:17
6	05:17	20:19 (15)	05:22		19:30		06:59	31 17:42 (17)	16:42	51 08:06 (23)	16:16
7	05:18	20:05 (15)	05:49	10	19:22 (16)	19:22 (16)	06:24	33 17:08 (17)	06:41	50 08:05 (23)	16:16
8	05:19	20:06 (15)	05:50	16	19:09 (16)	19:09 (16)	06:25	36 17:44 (17)	16:40	49 08:05 (23)	16:16
9	05:19	20:18 (15)	05:51	21	19:25 (16)	19:25 (16)	06:26	37 17:08 (17)	06:42	48 08:04 (23)	16:16
10	05:20	20:06 (15)	05:52	25	19:06 (16)	19:06 (16)	06:27	39 17:45 (17)	16:37	47 08:04 (23)	16:16
11	05:21	20:17 (15)	05:53	27	19:27 (16)	19:27 (16)	06:28	41 17:05 (17)	06:45	46 08:04 (23)	16:16
12	05:22	20:07 (15)	05:54	30	19:29 (16)	19:29 (16)	06:29	44 17:46 (17)	16:36	45 08:03 (23)	16:16
13	05:22	20:16 (15)	05:55	31	19:03 (16)	19:03 (16)	06:30	59 17:47 (17)	16:35	44 08:03 (23)	16:16
14	05:23	20:08 (15)	05:56	33	19:01 (16)	19:01 (16)	06:31	67 17:46 (17)	16:33	43 08:03 (23)	16:16
15	05:24	20:15 (15)	05:57	34	19:31 (16)	19:31 (16)	06:32	73 17:46 (17)	16:32	41 08:01 (23)	16:16
16	05:25	20:10 (15)	05:58	36	18:59 (16)	18:59 (16)	06:33	78 17:46 (17)	16:31	39 08:01 (23)	16:16
17	05:26	20:13 (15)	06:00	37	19:33 (16)	19:33 (16)	06:34	82 17:46 (17)	16:30	36 07:59 (23)	16:16
18	05:27	20:11 (15)	06:03	38	18:58 (16)	18:58 (16)	06:35	85 17:46 (17)	16:29	34 07:59 (23)	16:16
19	05:28	20:13 (15)	06:04	39	19:34 (16)	19:34 (16)	06:36	88 17:45 (17)	16:28	31 07:57 (23)	16:16
20	05:29	20:11 (15)	06:05	40	18:56 (16)	18:56 (16)	06:37	90 17:44 (17)	16:27	27 07:55 (23)	16:17
21	05:30	20:13 (15)	06:06	41	18:55 (16)	18:55 (16)	06:38	90 17:43 (17)	16:26	23 07:54 (23)	16:17
22	05:31	20:14 (15)	06:07	42	18:54 (16)	18:54 (16)	06:39	90 17:42 (17)	16:25	18 07:53 (23)	16:17
23	05:32	20:15 (15)	06:08	43	18:53 (16)	18:53 (16)	06:40	90 17:41 (17)	16:24	10 07:48 (23)	16:18
24	05:33	20:16 (15)	06:09	44	18:52 (16)	18:52 (16)	06:41	87 17:39 (17)	16:24		16:18
25	05:34	20:17 (15)	06:10	45	18:51 (16)	18:51 (16)	06:42	86 17:37 (17)	16:23		16:19
26	05:35	20:18 (15)	06:11	46	18:50 (16)	18:50 (16)	06:43	84 17:35 (17)	16:22		16:19
27	05:36	20:19 (15)	06:12	47	18:49 (16)	18:49 (16)	06:44	82 17:34 (17)	16:21		16:20
28	05:37	20:20 (15)	06:13	48	18:48 (16)	18:48 (16)	06:45	80 17:32 (17)	16:21		16:20
29	05:38	20:21 (15)	06:14	49	18:47 (16)	18:47 (16)	06:46	78 17:30 (17)	16:20		16:21
30	05:39	20:22 (15)	06:15	50	18:46 (16)	18:46 (16)	06:47	75 17:29 (17)	16:19		16:22
31	05:40	20:23 (15)	06:16	51	18:45 (16)	18:45 (16)	06:48	71 17:27 (17)	16:19		16:22
	05:41	20:24 (15)	06:17	52	18:44 (16)	18:44 (16)	06:49	66 17:26 (17)	16:18		16:23
	05:42	20:25 (15)	06:18	53	18:43 (16)	18:43 (16)	06:50	66 17:25 (17)	16:18		16:23
	05:43	20:26 (15)	06:19	54	18:42 (16)	18:42 (16)	06:51	66 17:24 (17)	16:17		16:24
	05:44	20:27 (15)	06:20	55	18:41 (16)	18:41 (16)	06:52	66 17:23 (17)	16:17		16:24
	05:45	20:28 (15)	06:21	56	18:40 (16)	18:40 (16)	06:53	66 17:22 (17)	16:16		16:25
	05:46	20:29 (15)	06:22	57	18:39 (16)	18:39 (16)	06:54	66 17:21 (17)	16:16		16:25
	05:47	20:30 (15)	06:23	58	18:38 (16)	18:38 (16)	06:55	66 17:20 (17)	16:15		16:26
	05:48	20:31 (15)	06:24	59	18:37 (16)	18:37 (16)	06:56	66 17:19 (17)	16:15		16:26
	05:49	20:32 (15)	06:25	60	18:36 (16)	18:36 (16)	06:57	66 17:18 (17)	16:14		16:27
	05:50	20:33 (15)	06:26	61	18:35 (16)	18:35 (16)	06:58	66 17:17 (17)	16:14		16:27
	05:51	20:34 (15)	06:27	62	18:34 (16)	18:34 (16)	06:59	66 17:16 (17)	16:13		16:28
	05:52	20:35 (15)	06:28	63	18:33 (16)	18:33 (16)	07:00	66 17:15 (17)	16:13		16:28
	05:53	20:36 (15)	06:29	64	18:32 (16)	18:32 (16)	07:01	66 17:14 (17)	16:12		16:29
	05:54	20:37 (15)	06:30	65	18:31 (16)	18:31 (16)	07:02	66 17:13 (17)	16:12		16:29
	05:55	20:38 (15)	06:31	66	18:30 (16)	18:30 (16)	07:03	66 17:12 (17)	16:11		16:30
	05:56	20:39 (15)	06:32	67	18:29 (16)	18:29 (16)	07:04	66 17:11 (17)	16:11		16:30
	05:57	20:40 (15)	06:33	68	18:28 (16)	18:28 (16)	07:05	66 17:10 (17)	16:10		16:31
	05:58	20:41 (15)	06:34	69	18:27 (16)	18:27 (16)	07:06	66 17:09 (17)	16:10		16:31
	05:59	20:42 (15)	06:35	70	18:26 (16)	18:26 (16)	07:07	66 17:08 (17)	16:09		16:32
	06:00	20:43 (15)	06:36	71	18:25 (16)	18:25 (16)	07:08	66 17:07 (17)	16:09		16:32
	06:01	20:44 (15)	06:37	72	18:24 (16)	18:24 (16)	07:09	66 17:06 (17)	16:08		16:33
	06:02	20:45 (15)	06:38	73	18:23 (16)	18:23 (16)	07:10	66 17:05 (17)	16:08		16:33
	06:03	20:46 (15)	06:39	74	18:22 (16)	18:22 (16)	07:11	66 17:04 (17)	16:07		16:34
	06:04	20:47 (15)	06:40	75	18:21 (16)	18:21 (16)	07:12	66 17:03 (17)	16:07		16:34
	06:05	20:48 (15)	06:41	76	18:20 (16)	18:20 (16)	07:13	66 17:02 (17)	16:06		16:35
	06:06	20:49 (15)	06:42	77	18:19 (16)	18:19 (16)	07:14	66 17:01 (17)	16:06		16:35
	06:07	20:50 (15)	06:43	78	18:18 (16)	18:18 (16)	07:15	66 17:00 (17)	16:05		16:36
	06:08	20:51 (15)	06:44	79	18:17 (16)	18:17 (16)	07:16	66 16:59 (17)	16:05		16:36
	06:09	20:52 (15)	06:45	80	18:16 (16)	18:16 (16)	07:17	66 16:58 (17)	16:04		16:37
	06:10	20:53 (15)	06:46	81	18:15 (16)	18:15 (16)	07:18	66 16:57 (17)	16:04		16:37
	06:11	20:54 (15)	06:47	82	18:14 (16)	18:14 (16)	07:19	66 16:56 (17)	16:03		16:38
	06:12	20:55 (15)	06:48	83	18:13 (16)	18:13 (16)	07:20	66 16:55 (17)	16:03		16:38
	06:13	20:56 (15)	06:49	84	18:12 (16)	18:12 (16)	07:21	66 16:54 (17)	16:02		16:39
	06:14	20:57 (15)	06:50	85	18:11 (16)	18:11 (16)	07:22	66 16:53 (17)	16:02		16:39
	06:15	20:58 (15)	06:51	86	18:10 (16)	18:10 (16)	07:23	66 16:52 (17)	16:01		16:40
	06:16	20:59 (15)	06:52	87	18:09 (16)	18:09 (16)	07:24	66 16:51 (17)	16:01		16:40
	06:17	21:00 (15)	06:53	88	18:08 (16)	18:08 (16)	07:25	66 16:50 (17)	16:00		16:41
	06:18	21:01 (15)	06:54	89	18:07 (16)	18:07 (16)	07:26	66 16:49 (17)	16:00		16:41
	06:19	21:02 (15)	06:55	90	18:06 (16)	18:06 (16)	07:27	66 16:48 (17)	15:59		16:42
	06:20	21:03 (15)	06:56	91	18:05 (16)	18:05 (16)	07:28	66 16:47 (17)	15:59		16:42
	06:21	21:04 (15)	06:57	92	18:04 (16)	18:04 (16)	07:29	66 16:46 (17)	15:58		16:43
	06:22	21:05 (15)	06:58	93	18:03 (16)	18:03 (16)	07:30	66 16:45 (17)	15:58		16:43
	06:23	21:06 (15)	06:59	94	18:02 (16)	18:02 (16)	07:31	66 16:44 (17)	15:57		16:44
	06:24	21:07 (15)	07:00	95	18:01 (16)	18:01 (16)	07:32	66 16:43 (17)	15:57		16:44
	06:25	21:08 (15)	07:01	96	18:00 (16)	18:00 (16)	07:33	66 16:42 (17)	15:56		16:45
	06:26	21:09 (15)	07:02	97	17:59 (16)	17:59 (16)	07:34	66 16:41 (17)	15:56		16:45
	06:27	21:10 (15)	07:03	98	17:58 (16)	17:58 (16)	07:35	66 16:40 (17)	15:55		16:46
	06:28	21:11 (15)	07:04	99	17:57 (16)	17:57 (16)	07:36	66 16:39 (17)	15:55		16:46
	06:29	21:12 (15)	07:05	100	17:56 (16)	17:56 (16)	07:37	66 16:38 (17)	15:54		16:47
	06:30	21:13 (15)	07:06	101	17:55 (16)	17:55 (16)	07:38	66 16:37 (17)	15:54		16:47
	06:31	21:14 (15)	07:07	102	17:54 (16)	17:54 (16)	07:39	66 16:36 (17)	15:53		16:48
	06:32	21:15 (15)	07:08	103	17:53 (16)	17:53 (16)	07:40	66 16:35 (17)	15:53		16:48
	06:33	21:16 (15)	07:09	104	17:52 (16)	17:52 (16)	07:41	66 16:34 (17)	15:52		16:49

Project:

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 179 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (768)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	08:04 (23)	07:17	08:06 (23)	06:36	06:39	18:12 (16)	05:48	05:14	05:45 (21)	
2	07:35	08:04 (23)	07:16	08:07 (23)	06:34	06:37	18:12 (16)	05:46	05:14	05:45 (21)	
3	07:35	08:03 (23)	07:15	08:08 (23)	06:32	06:35	18:12 (16)	05:45	05:13	05:46 (21)	
4	07:35	08:03 (23)	07:14	08:09 (23)	06:31	06:34	18:12 (16)	05:43	05:13	05:46 (21)	
5	07:35	08:03 (23)	07:13	08:09 (23)	06:29	06:32	18:12 (16)	05:42	05:12	05:47 (21)	
6	07:35	08:03 (23)	07:11	08:11 (23)	06:27	06:30	18:13 (16)	05:40	05:12	05:48 (21)	
7	07:34	08:03 (23)	07:10	08:12 (23)	06:25	06:28	18:13 (16)	05:39	05:12	05:48 (21)	
8	07:34	08:02 (23)	07:09	08:13 (23)	07:24	06:26	18:13 (16)	05:38	05:11	05:49 (21)	
9	07:34	08:03 (23)	07:07	08:15 (23)	07:22	06:24	18:15 (16)	05:36	05:11	05:49 (21)	
10	07:34	08:03 (23)	07:06	08:17 (23)	07:20	06:23	18:16 (16)	05:35	05:11	05:50 (21)	
11	07:33	08:02 (23)	07:05	08:21 (23)	07:18	06:21	18:17 (16)	05:34	05:10	05:51 (21)	
12	07:33	08:03 (23)	07:03	15:46 (17)	07:16	06:19	18:18 (16)	05:33	05:10	05:51 (21)	
13	07:33	08:02 (23)	07:02	15:49 (17)	07:14	06:17	18:19 (16)	05:31	05:10	05:51 (21)	
14	07:32	08:03 (23)	07:00	15:51 (17)	07:13	06:16	18:22 (16)	05:30	05:10	05:52 (21)	
15	07:32	08:02 (23)	06:59	15:59 (17)	07:11	06:14	18:26 (16)	05:29	05:11	05:53 (21)	
16	07:31	08:02 (23)	06:57	16:01 (17)	07:09	06:12	18:37 (16)	05:28	05:10	05:53 (21)	
17	07:31	08:03 (23)	06:56	16:15 (17)	07:07	06:10	18:42 (16)	05:27	05:10	05:53 (21)	
18	07:30	08:02 (23)	06:54	16:16 (17)	07:05	06:09	18:43 (16)	05:26	05:10	05:54 (21)	
19	07:29	08:02 (23)	06:53	16:17 (17)	07:03	06:07	18:44 (16)	05:25	05:10	05:55 (21)	
20	07:29	08:02 (23)	06:51	16:18 (17)	07:01	06:05	18:45 (16)	05:24	05:10	05:55 (21)	
21	07:28	08:03 (23)	06:49	16:19 (17)	07:00	06:03	18:46 (16)	05:23	05:10	05:55 (21)	
22	07:27	08:03 (23)	06:48	16:20 (17)	06:58	06:02	18:47 (16)	05:22	05:11	05:55 (21)	
23	07:26	08:03 (23)	06:46	16:21 (17)	06:56	06:00	18:48 (16)	05:21	05:11	05:55 (21)	
24	07:25	08:03 (23)	06:44	16:22 (17)	06:54	05:59	18:49 (16)	05:20	05:11	05:56 (21)	
25	07:24	08:03 (23)	06:43	16:23 (17)	06:52	05:57	18:50 (16)	05:19	05:11	05:56 (21)	
26	07:24	08:04 (23)	06:41	16:24 (17)	06:50	05:55	18:51 (16)	05:18	05:12	05:55 (21)	
27	07:23	08:04 (23)	06:39	16:25 (17)	06:48	05:54	18:52 (16)	05:17	05:13	05:55 (21)	
28	07:22	08:04 (23)	06:38	16:26 (17)	06:47	05:53	18:53 (16)	05:16	05:13	05:55 (21)	
29	07:21	08:05 (23)		16:27 (17)	06:45	05:51	18:54 (16)	05:15	05:14	05:55 (21)	
30	07:20	08:06 (23)		16:28 (17)	06:43	05:49	18:55 (16)	05:14	05:14	05:55 (21)	
31	07:18	08:05 (23)		16:29 (17)	06:41	05:47	18:56 (16)	05:13	05:14	05:55 (21)	
Potential sun hours	286	291	369	404	459	466					
Total, worst case	2365	839	475	532	1139	1505					
Sun reduction	0.41	0.48	0.51	0.49	0.56	0.59					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.66	0.68	0.72	0.72	0.69	0.67					
Total reduction	0.27	0.33	0.37	0.35	0.39	0.39					
Total, real	635	274	174	187	441	588					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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EDR217 Montgomery St.
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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 179 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (768)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:55 (21)	05:42	06:05 (21)	06:18	18:15 (16)	06:54	06:34	07:46 (23)	07:14	07:44 (23)
2	05:15	05:55 (21)	05:43	06:06 (21)	06:19	18:14 (16)	06:55	06:35	07:45 (23)	07:15	07:45 (23)
3	05:15	05:55 (21)	05:44	06:07 (21)	06:20	18:12 (16)	06:56	06:37	07:43 (23)	07:16	07:47 (23)
4	05:16	05:54 (21)	05:45	06:09 (21)	06:22	18:11 (16)	06:58	06:38	07:41 (23)	07:17	07:47 (23)
5	05:16	05:54 (21)	05:46	06:10 (21)	06:23	18:10 (16)	06:59	06:40	07:40 (23)	07:18	07:48 (23)
6	05:17	05:54 (21)	05:47	06:11 (21)	06:24	18:09 (16)	07:00	06:41	07:39 (23)	07:19	07:49 (23)
7	05:18	05:53 (21)	05:49	06:12 (21)	06:25	18:08 (16)	07:01	06:42	07:39 (23)	07:20	07:50 (23)
8	05:19	05:53 (21)	05:50	06:14 (21)	06:26	18:07 (16)	07:03	06:44	07:38 (23)	07:21	07:51 (23)
9	05:19	05:53 (21)	05:51		06:28	18:06 (16)	07:04	06:45	07:38 (23)	07:22	07:52 (23)
10	05:20	05:53 (21)	05:52		06:29	18:05 (16)	07:05	06:46	07:37 (23)	07:23	07:53 (23)
11	05:21	05:52 (21)	05:53		06:30	18:05 (16)	07:06	06:48	07:37 (23)	07:24	07:54 (23)
12	05:22	05:52 (21)	05:54		06:31	18:05 (16)	07:08	06:49	07:36 (23)	07:25	07:55 (23)
13	05:22	05:52 (21)	05:56		06:32	18:04 (16)	07:09	06:51	07:37 (23)	07:26	07:56 (23)
14	05:23	05:52 (21)	05:57		06:33	18:04 (16)	07:10	06:52	07:36 (23)	07:27	07:57 (23)
15	05:24	05:52 (21)	05:58		06:35	18:03 (16)	07:11	06:53	07:37 (23)	07:27	07:57 (23)
16	05:25	05:51 (21)	05:59		06:36	18:03 (16)	07:13	06:55	07:37 (23)	07:28	07:58 (23)
17	05:26	05:51 (21)	06:00		06:37	18:03 (16)	07:14	06:56	07:36 (23)	07:29	07:58 (23)
18	05:27	05:51 (21)	06:01		06:38	18:04 (16)	07:15	06:57	07:37 (23)	07:29	07:59 (23)
19	05:28	05:52 (21)	06:03		06:39	18:04 (16)	07:17	06:59	07:37 (23)	07:30	08:00 (23)
20	05:29	05:53 (21)	06:04		06:41	18:05 (16)	07:18	07:00	07:38 (23)	07:31	08:00 (23)
21	05:30	05:54 (21)	06:05		06:42	18:05 (16)	07:19	07:01	07:38 (23)	07:31	08:01 (23)
22	05:31	05:55 (21)	06:06		06:43	18:06 (16)	07:21	07:03	07:39 (23)	07:32	08:01 (23)
23	05:32	05:56 (21)	06:07		06:44	18:07 (16)	07:22	07:04	07:39 (23)	07:32	08:02 (23)
24	05:33	05:57 (21)	06:09		06:45	18:09 (16)	07:23	07:05	07:39 (23)	07:33	08:02 (23)
25	05:34	05:58 (21)	06:10		06:47	18:11 (16)	07:25	07:06	07:41 (23)	07:33	08:02 (23)
26	05:35	05:59 (21)	06:11		06:48	18:14 (16)	07:26	07:08	07:41 (23)	07:33	08:03 (23)
27	05:36	06:00 (21)	06:12		06:49	18:25 (16)	07:55	07:09	07:41 (23)	07:34	08:03 (23)
28	05:37	06:01 (21)	06:13	18:27 (16)	06:50	17:54	07:27	07:10	07:42 (23)	07:34	08:03 (23)
29	05:38	06:02 (21)	06:15	18:23 (16)	06:51	17:51	07:28	07:11	07:43 (23)	07:34	08:03 (23)
30	05:39	06:03 (21)	06:16	18:20 (16)	06:53	17:49	07:29	07:12	07:44 (23)	07:34	08:03 (23)
31	05:41	06:04 (21)	06:17	18:18 (16)	06:54	17:48	07:30	07:13	07:45 (23)	07:35	08:04 (23)
Potential sun hours	472	436	376	341	288	275	1457	1457	1457	1457	1457
Total, worst case	1693	193	936	121	2452	1457	1457	1457	1457	1457	1457
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.33	0.33	0.33	0.33	0.33	0.33
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.68	0.72	0.72	0.76	0.66	0.64	0.64	0.64	0.64	0.64	0.64
Total reduction	0.44	0.43	0.39	0.36	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Total, real	738	83	363	43	503	308	308	308	308	308	308

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 181 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (770)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:36 (16)	07:17	15:37 (16)	06:36	06:39	07:05 (21)	05:48	05:14		
2	07:35	15:36 (16)	07:16	15:38 (16)	06:34	06:37	07:05 (21)	05:46	05:14		
3	07:35	15:35 (16)	07:15	15:38 (16)	06:33	06:35	07:05 (21)	05:45	05:13		
4	07:35	15:35 (16)	07:14	15:40 (16)	06:31	06:34	07:07 (21)	05:43	05:13		
5	07:35	15:35 (16)	07:13	15:40 (16)	06:29	06:32	07:08 (21)	05:42	05:12		
6	07:35	15:35 (16)	07:11	15:41 (16)	06:27	06:30	07:09 (21)	05:40	05:12		
7	07:35	15:35 (16)	07:10	15:43 (16)	06:25	06:28	07:11 (21)	05:39	05:12		
8	07:34	15:34 (16)	07:09	15:43 (16)	07:24	06:26	18:18 (15)	05:38	05:11		
9	07:34	15:35 (16)	07:07	15:45 (16)	07:22	06:24	18:21 (15)	05:36	05:11		
10	07:34	15:35 (16)	07:06	15:46 (16)	07:20	06:23	18:26 (15)	05:35	05:11		
11	07:33	15:34 (16)	07:05	15:49 (16)	07:18	06:21	18:31 (15)	05:34	05:10		
12	07:33	15:34 (16)	07:03	15:52 (16)	07:16	06:19		05:33	05:10		
13	07:33	15:34 (16)	07:02	15:53 (16)	07:14	06:17		05:31	05:10		
14	07:32	15:34 (16)	07:00	15:54 (16)	07:13	06:16		05:30	05:10		
15	07:32	15:34 (16)	06:59	15:54 (16)	07:11	06:14	18:30 (15)	05:29	05:10		
16	07:31	15:33 (16)	06:57	15:53 (16)	07:09	06:12	18:26 (15)	05:28	05:10		
17	07:31	15:34 (16)	06:56	15:53 (16)	07:07	06:10	18:23 (15)	05:27	05:10		
18	07:30	15:34 (16)	06:54	15:53 (16)	07:05	06:09	18:21 (15)	05:26	05:10		
19	07:29	15:34 (16)	06:53	15:53 (16)	07:03	06:07	18:24 (21)	05:25	05:10		
20	07:29	15:33 (16)	06:51	15:53 (16)	07:02	06:05	18:22 (21)	05:24	05:10		
21	07:28	15:34 (16)	06:49	15:54 (16)	07:00	06:03	18:20 (21)	05:23	05:10		
22	07:27	15:34 (16)	06:48	15:54 (16)	06:58	06:02	18:18 (21)	05:22	05:11		
23	07:26	15:34 (16)	06:46	15:54 (16)	06:56	06:00	18:16 (21)	05:21	05:11		
24	07:25	15:34 (16)	06:44	15:54 (16)	06:54	05:59	18:14 (21)	05:20	05:11		
25	07:24	15:34 (16)	06:43	15:54 (16)	06:52	05:57	18:12 (21)	05:19	05:11		
26	07:24	15:35 (16)	06:41	15:55 (16)	06:50	05:55	18:10 (21)	05:18	05:12		
27	07:23	15:35 (16)	06:39	15:55 (16)	06:48	05:54	18:09 (21)	05:18	05:12		
28	07:22	15:35 (16)	06:38	15:55 (16)	06:47	05:53	18:07 (21)	05:17	05:13		
29	07:21	15:36 (16)	06:37	15:56 (16)	06:45	05:51	18:05 (21)	05:16	05:13		
30	07:20	15:36 (16)	06:36	15:56 (16)	06:43	05:49	18:03 (21)	05:15	05:14		
31	07:18	15:36 (16)	06:35	15:56 (16)	06:41	05:47	18:01 (21)	05:14	05:13		
Potential sun hours	286		291		369		404		459		466
Total, worst case		1139		388		826		436			
Sun reduction	0.41		0.48		0.51		0.49				
Oper. time red.	1.00		1.00		1.00		1.00				
Wind dir. red.	0.79		0.79		0.72		0.72				
Total reduction	0.33		0.38		0.37		0.36				
Total, real	373		149		307		155				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 181 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (770)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14	05:42	06:18	06:54	06:34	15:16 (16) 07:14
2	05:15	05:43	06:19	18:24 (15) 06:55	16:46	25 15:41 (16) 16:18 34 15:50 (16)
3	05:15	05:44	06:20	18:29 (15) 06:56	16:45	29 15:44 (16) 16:17 33 15:50 (16)
4	05:16	05:45	06:22	18:34 (15) 06:58	16:44	31 15:44 (16) 16:17 31 15:50 (16)
5	05:16	05:46	06:23	18:39 (15) 06:59	16:43	34 15:45 (16) 16:17 30 15:49 (16)
6	05:17	05:47	06:24	18:41 (15) 07:00	16:42	36 15:47 (16) 16:16 29 15:48 (16)
7	05:18	05:49	06:25	18:43 (15) 07:01	16:41	38 15:47 (16) 16:16 28 15:48 (16)
8	05:19	05:50	06:26	18:44 (15) 07:02	16:40	39 15:48 (16) 16:16 26 15:48 (16)
9	05:19	05:51	06:28	18:45 (15) 07:04	16:39	40 15:48 (16) 16:16 25 15:48 (16)
10	05:20	05:52	06:29	18:46 (15) 07:05	16:38	42 15:50 (16) 16:16 24 15:48 (16)
11	05:21	05:53	06:30	18:47 (15) 07:06	16:37	42 15:50 (16) 16:16 23 15:48 (16)
12	05:22	05:54	06:31	18:48 (15) 07:08	16:36	43 15:51 (16) 16:16 22 15:48 (16)
13	05:22	05:56	06:32	18:49 (15) 07:09	16:35	43 15:51 (16) 16:16 21 15:48 (16)
14	05:23	05:57	06:33	18:50 (15) 07:10	16:34	43 15:51 (16) 16:16 20 15:48 (16)
15	05:24	05:58	06:35	18:51 (15) 07:11	16:33	44 15:51 (16) 16:16 19 15:48 (16)
16	05:25	05:59	06:36	18:52 (15) 07:13	16:32	44 15:52 (16) 16:16 18 15:48 (16)
17	05:26	06:00	06:37	18:53 (15) 07:14	16:31	44 15:52 (16) 16:16 17 15:48 (16)
18	05:27	06:01	06:38	18:54 (15) 07:15	16:30	44 15:52 (16) 16:17 17 15:48 (16)
19	05:28	06:03	06:39	18:55 (15) 07:17	16:29	44 15:52 (16) 16:17 17 15:49 (16)
20	05:29	06:04	06:41	18:56 (15) 07:18	16:28	44 15:52 (16) 16:17 16 15:49 (16)
21	05:30	06:05	06:42	18:57 (15) 07:19	16:27	43 15:52 (16) 16:18 16 15:49 (16)
22	05:31	06:06	06:43	18:58 (15) 07:21	16:26	43 15:52 (16) 16:18 16 15:50 (16)
23	05:32	06:07	06:44	18:59 (15) 07:22	16:25	43 15:52 (16) 16:18 16 15:50 (16)
24	05:33	06:09	06:45	19:00 (15) 07:23	16:24	41 15:52 (16) 16:19 16 15:51 (16)
25	05:34	06:10	06:47	19:01 (15) 07:25	16:23	41 15:52 (16) 16:20 16 15:51 (16)
26	05:35	06:11	06:48	19:02 (15) 07:26	16:22	41 15:52 (16) 16:20 16 15:51 (16)
27	05:36	06:12	06:49	19:03 (15) 07:27	16:21	40 15:52 (16) 16:21 17 15:53 (16)
28	05:37	06:13	06:50	19:04 (15) 07:29	16:20	40 15:52 (16) 16:21 17 15:53 (16)
29	05:38	06:15	06:51	19:05 (15) 07:30	16:19	39 15:52 (16) 16:22 17 15:53 (16)
30	05:39	06:16	06:53	19:06 (15) 07:31	16:18	39 15:52 (16) 16:22 17 15:53 (16)
31	05:41	06:17	18:41	19:07 (15) 07:33	16:17	38 15:51 (16) 16:22 18 15:54 (16)
Potential sun hours	472	436	376	341	288	275
Total, worst case			1277	44	1190	657
Sun reduction			0.54	0.47	0.31	0.33
Oper. time red.			1.00	1.00	1.00	1.00
Wind dir. red.			0.72	0.79	0.79	0.79
Total reduction			0.39	0.38	0.25	0.26
Total, real			502	17	294	173

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 186 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (775)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	08:01 (20)	07:17	08:16 (20)	06:36	06:39	07:31 (11)	05:48	18:36 (22)	05:14	05:46 (19)
2	07:35	08:01 (20)	07:16	08:27 (20)	06:34	06:37	07:47 (11)	20:00	19:09 (22)	20:35	20:09 (10)
3	07:35	08:00 (20)	07:15		06:33	06:35	07:35 (11)	05:46	18:36 (22)	05:14	05:46 (19)
4	07:35	08:00 (20)	07:14		06:31	06:35	07:42 (11)	20:01	19:08 (22)	20:35	20:09 (10)
5	07:35	08:00 (20)	07:13		06:29	06:35		05:45	18:38 (22)	05:13	05:46 (19)
6	07:35	08:00 (20)	07:12		06:27	06:35		05:43	19:07 (22)	20:36	20:10 (10)
7	07:35	08:00 (20)	07:11		06:25	06:35		05:41	18:39 (22)	05:13	05:45 (19)
8	07:35	08:00 (20)	07:10		06:23	06:35		05:39	19:05 (22)	20:37	20:09 (10)
9	07:35	08:00 (20)	07:09		06:21	06:35		05:37	18:40 (22)	05:12	05:46 (19)
10	07:35	08:00 (20)	07:08		06:19	06:35		05:35	19:03 (22)	20:38	20:09 (10)
11	07:35	08:00 (20)	07:07		06:17	06:35		05:33	18:43 (22)	05:12	05:46 (19)
12	07:35	08:00 (20)	07:06		06:15	06:35		05:31	19:01 (22)	20:39	20:10 (10)
13	07:35	08:00 (20)	07:05		06:13	06:35		05:29	18:46 (22)	05:11	05:45 (19)
14	07:35	08:00 (20)	07:04		06:11	06:35		05:27	19:01 (22)	20:39	20:10 (10)
15	07:35	08:00 (20)	07:03		06:09	06:35		05:25	18:48 (22)	05:11	05:45 (19)
16	07:35	08:00 (20)	07:02		06:07	06:35		05:23	19:01 (22)	20:39	20:10 (10)
17	07:35	08:00 (20)	07:01		06:05	06:35		05:21	18:49 (22)	05:11	05:45 (19)
18	07:35	08:00 (20)	07:00		06:03	06:35		05:19	19:01 (22)	20:39	20:10 (10)
19	07:35	08:00 (20)	06:59		06:01	06:35		05:17	18:49 (22)	05:11	05:45 (19)
20	07:35	08:00 (20)	06:58		05:59	06:35		05:15	19:01 (22)	20:39	20:10 (10)
21	07:35	08:00 (20)	06:57		05:57	06:35		05:13	18:49 (22)	05:11	05:45 (19)
22	07:35	08:00 (20)	06:56		05:55	06:35		05:11	19:01 (22)	20:39	20:10 (10)
23	07:35	08:00 (20)	06:55		05:53	06:35		05:09	18:49 (22)	05:11	05:45 (19)
24	07:35	08:00 (20)	06:54		05:51	06:35		05:07	19:01 (22)	20:39	20:10 (10)
25	07:35	08:00 (20)	06:53		05:49	06:35		05:05	18:49 (22)	05:11	05:45 (19)
26	07:35	08:00 (20)	06:52		05:47	06:35		05:03	19:01 (22)	20:39	20:10 (10)
27	07:35	08:00 (20)	06:51		05:45	06:35		05:01	18:49 (22)	05:11	05:45 (19)
28	07:35	08:00 (20)	06:50		05:43	06:35		04:59	19:01 (22)	20:39	20:10 (10)
29	07:35	08:00 (20)	06:49		05:41	06:35		04:57	18:49 (22)	05:11	05:45 (19)
30	07:35	08:00 (20)	06:48		05:39	06:35		04:55	19:01 (22)	20:39	20:10 (10)
31	07:35	08:00 (20)	06:47		05:37	06:35		04:53	18:49 (22)	05:11	05:45 (19)
Potential sun hours	286	291	369	404	459	466	2208				
Total, worst case	852	11	617	911	1152	2208					
Sun reduction	0.41	0.48	0.51	0.49	0.56	0.59					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.52	0.52	0.68	0.67	0.72	0.74					
Total reduction	0.21	0.25	0.34	0.32	0.40	0.43					
Total, real	179	3	210	293	456	941					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 186 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (775)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:50 (19)	05:42		06:18	18:39 (22)	06:54		07:15 (11)	06:34	07:14
2	05:15	05:50 (19)	05:43		06:19	18:40 (22)	06:55		07:16 (11)	06:36	07:15
3	05:15	05:51 (19)	05:44		06:20	18:41 (22)	06:56		07:22 (11)	06:37	07:16
4	05:16	05:51 (19)	05:45		06:22	18:44 (22)	06:58		07:27 (11)	06:44	07:17
5	05:16	05:51 (19)	05:46		06:23	18:47 (22)	06:59			06:40	07:18
6	05:17	05:52 (19)	05:47	7	18:59 (22)	19:06 (22)	19:28			06:41	07:19
7	05:18	05:52 (19)	05:49	16	18:52 (22)	19:10 (22)	19:26			06:42	07:20
8	05:18	05:52 (19)	05:50	20	18:50 (22)	19:12 (22)	19:24			06:44	07:21
9	05:19	05:53 (19)	05:51	23	18:48 (22)	19:13 (22)	19:22			06:45	07:22
10	05:20	05:53 (19)	05:52	27	18:46 (22)	19:15 (22)	19:20			06:46	07:23
11	05:21	05:53 (19)	05:53	30	18:45 (22)	19:16 (22)	19:19			06:48	07:24
12	05:22	05:54 (19)	05:54	32	18:43 (22)	19:17 (22)	19:17			06:49	07:25
13	05:22	05:55 (19)	05:56	34	18:43 (22)	19:19 (22)	19:15			06:51	07:26
14	05:23	05:55 (19)	05:57	36	18:42 (22)	19:19 (22)	19:13			06:52	07:27
15	05:24	05:56 (19)	05:58	37	18:41 (22)	19:20 (22)	19:09			06:53	07:28
16	05:25	05:56 (19)	05:59	39	18:40 (22)	19:20 (22)	19:07			06:55	07:29
17	05:26	05:56 (19)	06:00	40	18:39 (22)	19:21 (22)	19:05			06:56	07:30
18	05:27	05:57 (19)	06:01	41	18:38 (22)	19:22 (22)	19:03			06:57	07:31
19	05:28	05:58 (19)	06:03	42	18:37 (22)	19:23 (22)	19:01			06:59	07:32
20	05:29	05:59 (19)	06:04	43	18:36 (22)	19:24 (22)	18:59			07:00	07:33
21	05:30	06:00 (19)	06:05	43	18:35 (22)	19:25 (22)	18:57			07:01	07:34
22	05:31	06:01 (19)	06:06	43	18:34 (22)	19:26 (22)	18:55			07:03	07:35
23	05:32	06:02 (19)	06:07	43	18:33 (22)	19:27 (22)	18:53			07:04	07:36
24	05:33	06:03 (19)	06:09	43	18:32 (22)	19:28 (22)	18:51			07:05	07:37
25	05:34	06:04 (19)	06:10	43	18:31 (22)	19:29 (22)	18:49			07:06	07:38
26	05:35	06:05 (19)	06:11	42	18:30 (22)	19:30 (22)	18:47			07:08	07:39
27	05:36	06:06 (19)	06:12	41	18:29 (22)	19:31 (22)	18:45			07:09	07:40
28	05:37	06:07 (19)	06:13	40	18:28 (22)	19:32 (22)	18:43			07:10	07:41
29	05:38	06:08 (19)	06:14	39	18:27 (22)	19:33 (22)	18:41			07:11	07:42
30	05:39	06:09 (19)	06:15	37	18:26 (22)	19:34 (22)	18:39			07:13	07:43
31	05:41	06:11 (19)	06:16	35	18:25 (22)	19:35 (22)	18:37			07:15	07:45
Potential sun hours	472		436		376		341		288		275
Total, worst case	1856		958		736		41		578		701
Sun reduction	0.64		0.60		0.54		0.47		0.31		0.33
Oper. time red.	1.00		1.00		1.00		1.00		1.00		1.00
Wind dir. red.	0.73		0.67		0.68		0.68		0.52		0.52
Total reduction	0.46		0.39		0.36		0.31		0.16		0.17
Total, real	851		378		265		13		92		119

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 187 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (776)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	08:26 (20)	07:17	06:36	07:21 (11)	06:39	07:16 (19)	05:48	19:03 (10)	05:14	
2	07:35	08:27 (20)	07:16	06:34	07:23 (11)	06:37	07:16 (19)	05:46	19:03 (10)	05:14	
3	07:35	08:27 (20)	07:15	06:33	07:27 (11)	06:35	07:15 (19)	05:45	19:04 (10)	05:13	
4	07:35	08:28 (20)	07:14	06:31	07:12 (22)	06:34	07:16 (19)	05:43	19:04 (10)	05:13	
5	07:35	08:30 (20)	07:13	06:29	07:13 (22)	06:32	07:16 (19)	05:42	19:05 (10)	05:12	
6	07:35	08:31 (20)	07:11	06:27	07:14 (22)	06:30	07:16 (19)	05:40	19:07 (10)	05:12	
7	07:35	08:34 (20)	07:10	06:25	07:14 (22)	06:28	07:16 (19)	05:39	19:08 (10)	05:11	
8	07:34	08:39 (20)	07:13	06:23	07:14 (22)	06:26	07:16 (19)	05:38	19:09 (10)	05:11	
9	07:34		07:09	06:22	07:15 (22)	06:24	07:17 (19)	05:36	19:12 (10)	05:11	
10	07:34		07:07	06:20	07:16 (22)	06:23	07:18 (19)	05:35	19:22 (10)	05:11	
11	07:33		07:05	06:18	07:17 (22)	06:21	07:18 (19)	05:34		05:10	
12	07:33		07:03	06:16	07:18 (22)	06:19	07:19 (19)	05:33		05:10	
13	07:33		07:02	06:15	07:19 (22)	06:17	07:20 (19)	05:31		05:10	
14	07:32		07:00	06:13	07:20 (22)	06:15	07:21 (19)	05:30		05:10	
15	07:32		06:59	06:11	07:21 (22)	06:14	07:22 (19)	05:29		05:10	
16	07:31		06:57	06:09	07:22 (22)	06:12	07:23 (19)	05:28		05:10	
17	07:31		06:56	06:07	07:23 (22)	06:10	07:24 (19)	05:27		05:10	
18	07:30		06:54	06:05	07:24 (22)	06:09	07:25 (19)	05:26		05:10	
19	07:29		06:53	06:03	07:25 (22)	06:07	07:26 (19)	05:25		05:10	
20	07:29		06:51	06:01	07:26 (22)	06:05	07:27 (19)	05:24		05:10	
21	07:28		06:49	05:59	07:27 (22)	06:03	07:28 (19)	05:23		05:10	
22	07:27		06:48	05:57	07:28 (22)	06:02	07:29 (19)	05:22		05:11	
23	07:26		06:46	05:55	07:29 (22)	06:00	07:30 (19)	05:21		05:11	
24	07:25		06:44	05:53	07:30 (22)	05:59	07:31 (19)	05:20		05:11	
25	07:25		06:43	05:51	07:31 (22)	05:57	07:32 (19)	05:19		05:11	
26	07:24		06:41	05:49	07:32 (22)	05:55	07:33 (19)	05:18		05:12	
27	07:23		06:39	05:47	07:33 (22)	05:54	07:34 (19)	05:17		05:12	
28	07:22		06:38	05:45	07:34 (22)	05:52	07:35 (19)	05:16		05:13	
29	07:21		06:36	05:43	07:35 (22)	05:50	07:36 (19)	05:15		05:14	
30	07:20		06:34	05:41	07:36 (22)	05:48	07:37 (19)	05:14		05:14	
31	07:18		06:31	05:38	07:37 (22)	05:45	07:38 (19)	05:13		05:14	
Potential sun hours	286	291	369	404	459	466					
Total, worst case	83	633	1536	927	198						
Sun reduction	0.41	0.48	0.51	0.49	0.56						
Oper. time red.	1.00	1.00	1.00	1.00	1.00						
Wind dir. red.	0.50	0.65	0.74	0.68	0.64						
Total reduction	0.21	0.31	0.38	0.33	0.36						
Total, real	17	198	579	306	70						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Licensed user:

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 187 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (776)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42		06:18		07:17 (19)	06:54	17:04 (22)	06:34	07:14	
	20:47	20:25		19:35		07:54 (19)	18:39	17:51 (22)	16:46	16:18	
2	05:15	05:43		06:19		07:16 (19)	06:55	17:03 (22)	06:36	07:15	
	20:47	20:24		19:33		07:55 (19)	18:37	17:51 (22)	16:45	16:17	
3	05:15	05:44		19:25 (10)	06:20	07:14 (19)	06:56	17:04 (22)	06:37	07:16	
	20:47	20:23	3	19:28 (10)	19:32	07:55 (19)	18:35	17:51 (22)	16:44	16:17	
4	05:16	05:45		19:21 (10)	06:22	07:14 (19)	06:58	17:03 (22)	06:38	07:17	
	20:47	20:22	12	19:33 (10)	19:30	07:56 (19)	18:33	17:51 (22)	16:42	16:16	
5	05:16	05:46		19:19 (10)	06:23	07:13 (19)	06:59	17:02 (22)	06:40	07:18	08:19 (20)
	20:46	20:20	16	19:35 (10)	19:28	07:57 (19)	18:31	17:50 (22)	16:41	16:16	5 08:24 (20)
6	05:17	05:47		19:17 (10)	06:24	07:12 (19)	07:00	17:02 (22)	06:41	07:19	08:18 (20)
	20:46	20:19	20	19:37 (10)	19:26	07:57 (19)	18:30	17:50 (22)	16:40	16:16	8 08:26 (20)
7	05:18	05:49		19:16 (10)	06:25	07:11 (19)	07:01	17:03 (22)	06:42	07:20	08:17 (20)
	20:46	20:18	22	19:38 (10)	19:24	07:57 (19)	18:28	17:50 (22)	16:38	16:16	11 08:28 (20)
8	05:18	05:50		19:15 (10)	06:26	07:10 (19)	07:03	17:02 (22)	06:44	07:21	08:16 (20)
	20:45	20:16	23	19:38 (10)	19:22	07:57 (19)	18:26	17:49 (22)	16:37	16:16	13 08:29 (20)
9	05:19	05:51		19:14 (10)	06:28	07:10 (19)	07:04	17:02 (22)	06:45	07:22	08:16 (20)
	20:45	20:15	25	19:39 (10)	19:20	07:56 (19)	18:24	17:48 (22)	16:36	16:16	14 08:30 (20)
10	05:20	05:52		19:13 (10)	06:29	07:09 (19)	07:05	17:03 (22)	06:46	07:23	08:16 (20)
	20:44	20:13	27	19:40 (10)	19:19	07:56 (19)	18:22	17:48 (22)	16:35	16:16	15 08:31 (20)
11	05:21	05:53		19:12 (10)	06:30	07:09 (19)	07:06	07:59 (11)	06:48	07:24	08:16 (20)
	20:44	20:12	28	19:40 (10)	19:17	07:57 (19)	18:20	17:46 (22)	16:33	16:16	16 08:32 (20)
12	05:22	05:54		19:11 (10)	06:31	07:09 (19)	07:08	07:55 (11)	06:49	07:25	08:16 (20)
	20:43	20:10	29	19:40 (10)	19:15	07:56 (19)	18:19	17:45 (22)	16:32	16:16	17 08:33 (20)
13	05:22	05:56		19:11 (10)	06:32	07:09 (19)	07:09	07:54 (11)	06:51	07:26	08:16 (20)
	20:43	20:09	30	19:41 (10)	19:13	07:55 (19)	18:17	17:44 (22)	16:31	16:16	18 08:34 (20)
14	05:23	05:57		19:11 (10)	06:33	07:08 (19)	07:10	07:52 (11)	06:52	07:27	08:16 (20)
	20:42	20:07	30	19:41 (10)	19:11	07:55 (19)	18:15	17:42 (22)	16:30	16:16	18 08:34 (20)
15	05:24	05:58		19:10 (10)	06:35	07:08 (19)	07:12	07:50 (11)	06:53	07:27	08:16 (20)
	20:42	20:06	30	19:40 (10)	19:09	07:54 (19)	18:13	17:40 (22)	16:29	16:16	19 08:35 (20)
16	05:25	05:59		19:10 (10)	06:36	07:08 (19)	07:13	07:50 (11)	06:55	07:28	08:17 (20)
	20:41	20:04	29	19:39 (10)	19:07	07:53 (19)	18:12	17:39 (22)	16:28	16:16	19 08:36 (20)
17	05:26	06:00		19:10 (10)	06:37	07:08 (19)	07:14	07:49 (11)	06:56	07:29	08:17 (20)
	20:40	20:03	27	19:37 (10)	19:05	07:52 (19)	18:10	17:37 (22)	16:27	16:17	20 08:37 (20)
18	05:27	06:01		19:10 (10)	06:38	07:10 (19)	07:15	07:48 (11)	06:57	07:29	08:17 (20)
	20:39	20:01	25	19:35 (10)	19:03	07:51 (19)	18:08	17:34 (22)	16:26	16:17	20 08:37 (20)
19	05:28	06:03		19:09 (10)	06:39	07:10 (19)	07:17	07:48 (11)	06:59	07:30	08:18 (20)
	20:39	19:58	25	19:34 (10)	19:02	07:40 (22)	18:07	17:31 (22)	16:25	16:17	20 08:38 (20)
20	05:29	06:04		19:10 (10)	06:41	07:11 (19)	07:18	07:47 (11)	07:00	07:31	08:18 (20)
	20:38	19:56	22	19:32 (10)	19:00	07:43 (22)	18:05	08:17 (11)	16:24	16:18	20 08:38 (20)
21	05:30	06:05		19:11 (10)	06:42	07:11 (19)	07:19	07:47 (11)	07:01	07:31	08:19 (20)
	20:37	19:54	20	19:31 (10)	18:58	07:45 (22)	18:03	08:17 (11)	16:24	16:18	20 08:39 (20)
22	05:31	06:06		19:11 (10)	06:43	07:12 (19)	07:21	07:47 (11)	07:03	07:32	08:19 (20)
	20:36	19:53	18	19:29 (10)	18:56	07:46 (22)	18:02	08:17 (11)	16:23	16:19	20 08:39 (20)
23	05:32	06:07		19:12 (10)	06:44	07:14 (19)	07:22	07:47 (11)	07:04	07:32	08:20 (20)
	20:35	19:51	16	19:28 (10)	18:54	07:47 (22)	18:00	08:16 (11)	16:22	16:19	20 08:40 (20)
24	05:33	06:09		19:13 (10)	06:45	07:16 (19)	07:23	07:48 (11)	07:05	07:33	08:20 (20)
	20:34	19:49	13	19:26 (10)	18:52	07:49 (22)	17:58	08:16 (11)	16:21	16:20	20 08:40 (20)
25	05:34	06:10		19:14 (10)	06:47	07:19 (19)	07:25	07:48 (11)	07:06	07:33	08:21 (20)
	20:33	19:48	10	19:24 (10)	18:50	07:50 (22)	17:57	08:15 (11)	16:21	16:20	20 08:41 (20)
26	05:35	06:11		07:32 (19)	06:48	07:19 (22)	07:26	07:48 (11)	07:08	07:34	08:21 (20)
	20:32	19:46	16	19:22 (10)	18:48	07:50 (22)	17:55	08:14 (11)	16:20	16:21	20 08:41 (20)
27	05:36	06:12		07:27 (19)	06:49	07:18 (22)	07:27	07:50 (11)	07:09	07:34	08:22 (20)
	20:31	19:44	19	07:46 (19)	18:46	07:51 (22)	17:54	08:14 (11)	16:19	16:22	19 08:41 (20)
28	05:37	06:13		07:25 (19)	06:50	07:16 (22)	07:29	07:51 (11)	07:10	07:34	08:22 (20)
	20:30	19:42	24	07:49 (19)	18:44	07:51 (22)	17:52	08:12 (11)	16:19	16:22	19 08:41 (20)
29	05:38	06:15		07:23 (19)	06:51	07:16 (22)	07:30	07:53 (11)	07:11	07:34	08:23 (20)
	20:29	19:41	28	07:51 (19)	18:43	07:52 (22)	17:51	08:11 (11)	16:18	16:23	18 08:41 (20)
30	05:39	06:16		07:21 (19)	06:53	07:15 (22)	07:31	07:54 (11)	07:13	07:35	08:24 (20)
	20:28	19:39	31	07:52 (19)	18:41	07:52 (22)	17:49	08:08 (11)	16:18	16:24	18 08:42 (20)
31	05:41	06:17		07:19 (19)		07:33		07:58 (11)		07:35	08:25 (20)
	20:27	19:37	34	07:53 (19)		07:48		08:05 (11)		16:25	17 08:42 (20)
Potential sun hours	472	436		376		341		288		275	
Total, worst case		652		1431		1253				464	
Sun reduction		0.60		0.54		0.47				0.33	
Oper. time red.		1.00		1.00		1.00				1.00	
Wind dir. red.		0.65		0.72		0.71				0.50	
Total reduction		0.39		0.39		0.33				0.17	
Total, real		254		553		414				77	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35		14:00 (28)	07:17		06:36		16:12 (24)	06:39	05:48		05:14
	16:26	43	14:43 (28)	17:04		17:43	52	17:04 (24)	19:24	20:00		20:34
2	07:35		14:01 (28)	07:16		06:34		16:12 (24)	06:37	05:46		05:14
	16:27	42	14:43 (28)	17:06		17:45	51	17:03 (24)	19:25	20:01		20:35
3	07:35		14:02 (28)	07:15		06:32		16:12 (24)	06:35	05:45		05:13
	16:28	42	14:44 (28)	17:07		17:46	51	17:03 (24)	19:26	20:02		20:36
4	07:35		14:03 (28)	07:14		06:31		16:12 (24)	06:33	05:43		05:13
	16:29	41	14:44 (28)	17:08		17:48	50	17:02 (24)	19:27	20:04		20:37
5	07:35		14:05 (28)	07:12		06:29		16:12 (24)	06:32	05:42		05:12
	16:30	39	14:44 (28)	17:10		17:49	49	17:01 (24)	19:29	20:05		20:38
6	07:35		14:06 (28)	07:11		06:27		16:13 (24)	06:30	05:40		05:12
	16:31	38	14:44 (28)	17:11		17:50	48	17:01 (24)	19:30	20:06		20:39
7	07:34		14:07 (28)	07:10		06:25		16:14 (24)	06:28	05:39		05:12
	16:32	37	14:44 (28)	17:13		17:52	46	17:00 (24)	19:31	20:07		20:39
8	07:34		14:08 (28)	07:09		07:24		17:14 (24)	06:26	05:38		05:11
	16:33	35	14:43 (28)	17:14		18:53	44	17:58 (24)	19:32	20:09		20:40
9	07:34		14:09 (28)	07:07		16:35 (24)		17:15 (24)	06:24	05:36		05:11
	16:34	34	14:43 (28)	17:16	7	16:42 (24)	42	17:57 (24)	19:34	20:10		20:41
10	07:34		14:11 (28)	07:06		16:29 (24)		17:16 (24)	06:23	05:35		05:11
	16:35	32	14:43 (28)	17:17	18	16:47 (24)	39	17:55 (24)	19:35	20:11		20:41
11	07:33		14:12 (28)	07:04		16:27 (24)		17:17 (24)	06:21	05:34		05:10
	16:36	29	14:41 (28)	17:18	24	16:51 (24)	37	17:54 (24)	19:36	20:12		20:42
12	07:33		14:15 (28)	07:03		16:24 (24)		17:20 (24)	06:19	05:33		05:10
	16:37	26	14:41 (28)	17:20	29	16:53 (24)	33	17:53 (24)	19:37	20:13		20:43
13	07:33		14:16 (28)	07:02		16:22 (24)		17:21 (24)	06:17	05:31		05:10
	16:39	23	14:39 (28)	17:21	33	16:55 (24)	29	17:50 (24)	19:39	20:15		20:43
14	07:32		14:19 (28)	07:00		16:20 (24)		17:24 (24)	06:15	05:30		05:10
	16:40	19	14:38 (28)	17:23	36	16:56 (24)	23	17:47 (24)	19:40	20:16		20:44
15	07:32		14:22 (28)	06:59		16:20 (24)		17:27 (24)	06:14	05:29		05:10
	16:41	14	14:36 (28)	17:24	38	16:58 (24)	16	17:43 (24)	19:41	20:17	3	05:54 (12)
16	07:31		14:28 (28)	06:57		16:18 (24)		06:12	05:28	05:50 (12)		05:10
	16:42	2	14:30 (28)	17:26	41	16:59 (24)		19:42	20:18	5	05:55 (12)	20:45
17	07:30			06:56		16:17 (24)		06:10	05:27	05:49 (12)		05:10
	16:44			17:27	43	17:00 (24)		19:44	20:19	7	05:56 (12)	20:45
18	07:30			06:54		16:16 (24)		06:09	05:26	05:48 (12)		05:10
	16:45			17:28	45	17:01 (24)		19:45	20:20	9	05:57 (12)	20:45
19	07:29			06:53		16:16 (24)		06:07	05:25	05:47 (12)		05:10
	16:46			17:30	46	17:02 (24)		19:46	20:21	10	05:57 (12)	20:46
20	07:28			06:51		16:15 (24)		06:05	05:24	05:46 (12)		05:10
	16:48			17:31	48	17:03 (24)		19:47	20:22	12	05:58 (12)	20:46
21	07:28			06:49		16:13 (24)		06:03	05:23	05:45 (12)		05:10
	16:49			17:33	50	17:03 (24)		19:49	20:24	13	05:58 (12)	20:46
22	07:27			06:48		16:14 (24)		06:02	05:22	05:44 (12)		05:11
	16:50			17:34	50	17:04 (24)		19:50	20:25	14	05:58 (12)	20:47
23	07:26			06:46		16:13 (24)		06:00	05:21	05:44 (12)		05:11
	16:52			17:35	51	17:04 (24)		19:51	20:26	21	19:55 (23)	20:47
24	07:25			06:44		16:12 (24)		05:59	05:20	05:43 (12)		05:11
	16:53			17:37	52	17:04 (24)		19:53	20:27	30	19:59 (23)	20:47
25	07:24			06:43		16:12 (24)		05:57	05:19	05:42 (12)		05:11
	16:54			17:38	53	17:05 (24)		19:54	20:28	35	20:01 (23)	20:47
26	07:23			06:41		16:12 (24)		05:55	05:18	05:41 (12)		05:12
	16:56			17:39	52	17:04 (24)		19:55	20:29	39	20:02 (23)	20:47
27	07:23			06:39		16:11 (24)		05:54	05:18	05:41 (12)		05:12
	16:57			17:41	53	17:04 (24)		19:56	20:30	43	20:04 (23)	20:47
28	07:22			06:38		16:11 (24)		05:52	05:17	05:40 (12)		05:13
	16:58			17:42	52	17:03 (24)		19:57	20:31	46	20:05 (23)	20:47
29	07:20					06:45		05:51	05:16	05:39 (12)		05:13
	17:00					19:20		19:59	20:32	48	20:05 (23)	20:47
30	07:19					06:43		05:49	05:15	05:39 (12)		05:14
	17:01					19:21		20:00	20:33	51	20:07 (23)	20:47
31	07:18					06:41			05:15	05:38 (12)		
	17:03					19:22			20:34	53	20:07 (23)	
Potential sun hours	286		291			369		404	459		466	
Total, worst case		496		821		610			439		1909	
Sun reduction		0.41		0.48		0.51			0.56		0.59	
Oper. time red.		1.00		1.00		1.00			1.00		1.00	
Wind dir. red.		0.73		0.79		0.79			0.69		0.65	
Total reduction		0.30		0.38		0.41			0.39		0.39	
Total, real		151		313		247			172		739	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 64

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 188 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (777)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:41 (12)	05:42	06:18		06:54	16:59 (24)	06:34		16:00 (24)	07:14
	20:47	66	20:20 (23)	20:25	19:35	18:39	17:30 (24)	16:46	16	16:16 (24)	16:18
2	05:15		05:40 (12)	05:43	06:19	06:55	16:57 (24)	06:35		16:07 (24)	07:15
	20:47	65	20:19 (23)	20:24	19:33	18:37	17:32 (24)	16:45	1	16:08 (24)	16:17
3	05:15		05:40 (12)	05:44	06:20	06:56	16:55 (24)	06:37			07:16
	20:47	65	20:19 (23)	20:23	19:31	18:35	17:34 (24)	16:44			16:17
4	05:16		05:40 (12)	05:45	06:22	06:58	16:53 (24)	06:38			07:17
	20:46	64	20:18 (23)	20:21	19:30	18:33	17:34 (24)	16:42			16:16
5	05:16		05:41 (12)	05:46	06:23	06:59	16:52 (24)	06:40			07:18
	20:46	64	20:19 (23)	20:20	19:28	18:31	17:35 (24)	16:41			16:16
6	05:17		05:42 (12)	05:47	06:24	07:00	16:50 (24)	06:41			07:19
	20:46	63	20:19 (23)	20:19	19:26	18:30	17:35 (24)	16:40			16:16
7	05:18		05:42 (12)	05:48	06:25	07:01	16:50 (24)	06:42			07:20
	20:46	61	20:18 (23)	20:17	19:24	18:28	17:36 (24)	16:38			16:16
8	05:18		05:43 (12)	05:50	06:26	07:03	16:48 (24)	06:44			07:21
	20:45	60	20:18 (23)	20:16	19:22	18:26	17:36 (24)	16:37			16:16
9	05:19		05:44 (12)	05:51	06:28	07:04	16:47 (24)	06:45			07:22
	20:45	59	20:17 (23)	20:15	19:20	18:24	17:36 (24)	16:36			16:16
10	05:20		05:44 (12)	05:52	06:29	07:05	16:46 (24)	06:46			07:23
	20:44	57	20:16 (23)	20:13	19:19	18:22	17:36 (24)	16:35			16:16
11	05:21		05:45 (12)	05:53	06:30	07:06	16:46 (24)	06:48			07:24
	20:44	56	20:16 (23)	20:12	19:17	18:20	17:37 (24)	16:33			16:16
12	05:22		05:46 (12)	05:54	06:31	07:08	16:45 (24)	06:49			07:25
	20:43	54	20:16 (23)	20:10	19:15	18:19	17:37 (24)	16:32			16:16
13	05:22		05:47 (12)	05:56	06:32	07:09	16:44 (24)	06:50			07:26
	20:43	52	20:15 (23)	20:09	19:13	18:17	17:36 (24)	16:31			16:16
14	05:23		05:48 (12)	05:57	06:33	07:10	16:44 (24)	06:52			07:26
	20:42	50	20:15 (23)	20:07	19:11	18:15	17:37 (24)	16:30			16:16
15	05:24		05:49 (12)	05:58	06:35	07:11	16:44 (24)	06:53			07:27
	20:41	47	20:15 (23)	20:06	19:09	18:13	17:36 (24)	16:29			16:16
16	05:25		05:49 (12)	05:59	06:36	07:13	16:43 (24)	06:55			07:28
	20:41	44	20:13 (23)	20:04	19:07	18:12	17:36 (24)	16:28			16:16
17	05:26		05:50 (12)	06:00	06:37	07:14	16:44 (24)	06:56			07:29
	20:40	43	20:13 (23)	20:03	19:05	18:10	17:36 (24)	16:27			16:17
18	05:27		05:51 (12)	06:01	06:38	07:15	16:44 (24)	06:57			07:29
	20:39	38	20:11 (23)	20:01	19:03	18:08	17:35 (24)	16:26			16:17
19	05:28		05:52 (12)	06:03	06:39	07:17	16:44 (24)	06:59			07:30
	20:38	34	20:10 (23)	19:58	19:01	18:07	17:35 (24)	16:25			16:17
20	05:29		05:53 (12)	06:04	06:41	07:18	16:44 (24)	07:00			07:31
	20:38	27	20:07 (23)	19:56	19:00	18:05	17:34 (24)	16:24			16:18
21	05:30		05:54 (12)	06:05	06:42	07:19	16:44 (24)	07:01			07:31
	20:37	15	06:09 (12)	19:54	18:58	18:03	17:33 (24)	16:24			16:18
22	05:31		05:55 (12)	06:06	06:43	07:21	16:45 (24)	07:02			07:32
	20:36	14	06:09 (12)	19:53	18:56	18:02	17:33 (24)	16:23			16:19
23	05:32		05:56 (12)	06:07	06:44	07:22	16:45 (24)	07:04			07:32
	20:35	12	06:08 (12)	19:51	18:54	18:00	17:32 (24)	16:22			16:19
24	05:33		05:57 (12)	06:09	06:45	07:23	16:46 (24)	07:05			07:33
	20:34	11	06:08 (12)	19:49	18:52	17:58	17:30 (24)	16:21			16:20
25	05:34		05:58 (12)	06:10	06:47	07:25	16:47 (24)	07:06			07:33
	20:33	9	06:07 (12)	19:48	18:50	17:57	17:30 (24)	16:21			16:20
26	05:35		05:59 (12)	06:11	06:48	07:26	16:48 (24)	07:08			07:33
	20:32	8	06:07 (12)	19:46	18:48	17:55	17:28 (24)	16:20			16:21
27	05:36		06:00 (12)	06:12	06:49	07:27	16:49 (24)	07:09		14:01 (28)	07:34
	20:31	6	06:06 (12)	19:44	18:46	17:54	17:27 (24)	16:19	14	14:15 (28)	16:22
28	05:37		06:01 (12)	06:13	06:50	07:29	16:50 (24)	07:10		13:58 (28)	07:34
	20:30	4	06:05 (12)	19:42	18:44	17:22 (24)	17:25 (24)	16:19	19	14:17 (28)	16:22
29	05:38		06:02 (12)	06:14	06:51	07:30	16:53 (24)	07:11		13:57 (28)	07:34
	20:29	2	06:04 (12)	19:41	18:43	17:27 (24)	17:24 (24)	16:18	23	14:20 (28)	16:23
30	05:39			06:16	06:53	07:31	16:54 (24)	07:12		13:56 (28)	07:34
	20:28			19:39	18:41	17:29 (24)	17:22 (24)	16:18	26	14:22 (28)	16:24
31	05:41			06:17		07:33	16:57 (24)			07:35	
	20:26			19:37		17:48	17:20 (24)			16:25	44
Potential sun hours	472		436	376		341		288		275	
Total, worst case		1150		62		1370		99		1317	
Sun reduction		0.64		0.54		0.47		0.31		0.33	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.67		0.79		0.79		0.74		0.73	
Total reduction		0.43		0.43		0.37		0.23		0.24	
Total, real		498		27		511		23		322	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker		(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 65

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 189 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (778)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35		14:28 (28)	07:17		06:36		16:28 (24)	06:39		05:48	
	16:26	50	15:18 (28)	17:04		17:43	45	17:13 (24)	19:24	20:00		20:34
2	07:35		14:29 (28)	07:16		06:34		16:28 (24)	06:37	05:46		05:14
	16:27	50	15:19 (28)	17:06		17:45	45	17:13 (24)	19:25	20:01		20:35
3	07:35		14:30 (28)	07:15		06:32		16:27 (24)	06:35	05:45		05:13
	16:28	49	15:19 (28)	17:07		17:46	45	17:12 (24)	19:26	20:02		20:36
4	07:35		14:30 (28)	07:14		06:31		16:27 (24)	06:33	05:43		05:13
	16:29	49	15:19 (28)	17:08		17:48	45	17:12 (24)	19:27	20:04		20:37
5	07:35		14:31 (28)	07:12		06:29		16:27 (24)	06:32	05:42		05:12
	16:30	49	15:20 (28)	17:10		17:49	44	17:11 (24)	19:29	20:05		20:38
6	07:35		14:32 (28)	07:11		06:27		16:28 (24)	06:30	05:40		05:12
	16:31	48	15:20 (28)	17:11		17:50	43	17:11 (24)	19:30	20:06		20:39
7	07:34		14:33 (28)	07:10		06:25		16:28 (24)	06:28	05:39		05:12
	16:32	48	15:21 (28)	17:13		17:52	43	17:11 (24)	19:31	20:07		20:39
8	07:34		14:33 (28)	07:09		06:24		17:29 (24)	06:26	05:38		05:11
	16:33	47	15:20 (28)	17:14		18:53	41	18:10 (24)	19:32	20:09		20:40
9	07:34		14:34 (28)	07:07		06:22		17:29 (24)	06:24	05:36		05:11
	16:34	47	15:21 (28)	17:16		18:54	39	18:08 (24)	19:34	20:10		20:41
10	07:34		14:35 (28)	07:06		06:20		17:30 (24)	06:23	05:35		05:11
	16:35	46	15:21 (28)	17:17		18:55	37	18:07 (24)	19:35	20:11		20:41
11	07:33		14:36 (28)	07:04		06:18		17:31 (24)	06:21	05:34		05:10
	16:36	44	15:20 (28)	17:18		18:57	34	18:05 (24)	19:36	20:12		20:42
12	07:33		14:37 (28)	07:03		06:16		17:33 (24)	06:19	05:33	11	19:37 (23)
	16:37	44	15:21 (28)	17:20		18:58	32	18:05 (24)	19:37	20:13		20:42
13	07:33		14:37 (28)	07:02		06:14		17:34 (24)	06:17	05:31		19:34 (23)
	16:39	43	15:20 (28)	17:21		18:59	29	18:03 (24)	19:39	20:15	16	19:50 (23)
14	07:32		14:39 (28)	07:00		06:13		17:36 (24)	06:15	05:30		19:32 (23)
	16:40	42	15:21 (28)	17:23		19:01	24	18:00 (24)	19:40	20:16	19	19:51 (23)
15	07:32		14:39 (28)	06:59		16:47 (24)	19	17:38 (24)	06:14	05:29		19:31 (23)
	16:41	41	15:20 (28)	17:24	10	16:57 (24)	19	17:57 (24)	19:41	20:17	21	19:52 (23)
16	07:31		14:40 (28)	06:57		16:42 (24)	10	17:42 (24)	06:12	05:28		19:30 (23)
	16:42	39	15:19 (28)	17:26	18	17:00 (24)		17:52 (24)	19:42	20:18	23	19:53 (23)
17	07:30		14:42 (28)	06:56		16:40 (24)		06:10	05:27	19:29 (23)		19:29 (23)
	16:44	38	15:20 (28)	17:27	23	17:03 (24)		19:44	20:19	25	19:54 (23)	20:45
18	07:30		14:43 (28)	06:54		16:37 (24)		06:09	05:26	19:28 (23)		19:28 (23)
	16:45	36	15:19 (28)	17:28	27	17:04 (24)		19:45	20:20	27	19:55 (23)	20:45
19	07:29		14:44 (28)	06:53		16:36 (24)		06:07	05:25	19:27 (23)		19:27 (23)
	16:46	34	15:18 (28)	17:30	30	17:06 (24)		19:46	20:21	29	19:56 (23)	20:46
20	07:28		14:45 (28)	06:51		16:34 (24)		06:05	05:24	19:26 (23)		19:26 (23)
	16:48	32	15:17 (28)	17:31	33	17:07 (24)		19:47	20:22	31	19:57 (23)	20:46
21	07:28		14:48 (28)	06:49		16:33 (24)		06:03	05:23		05:45 (12)	05:10
	16:49	29	15:17 (28)	17:33	36	17:09 (24)		19:49	20:24	35	19:58 (23)	20:46
22	07:27		14:50 (28)	06:48		16:32 (24)		06:02	05:22		05:44 (12)	05:11
	16:50	26	15:16 (28)	17:34	39	17:11 (24)		19:50	20:25	38	19:59 (23)	20:47
23	07:26		14:52 (28)	06:46		16:31 (24)		06:00	05:21		05:44 (12)	05:11
	16:52	22	15:14 (28)	17:35	40	17:11 (24)		19:51	20:26	42	20:01 (23)	20:47
24	07:25		14:55 (28)	06:44		16:30 (24)		05:59	05:20		05:43 (12)	05:11
	16:53	17	15:12 (28)	17:37	42	17:12 (24)		19:52	20:27	44	20:01 (23)	20:47
25	07:24		14:59 (28)	06:43		16:30 (24)		05:57	05:19		05:42 (12)	05:11
	16:54	9	15:08 (28)	17:38	43	17:13 (24)		19:54	20:28	47	20:02 (23)	20:47
26	07:23			06:41		16:29 (24)		05:55	05:18		05:41 (12)	05:12
	16:56			17:39	44	17:13 (24)		19:55	20:29	50	20:03 (23)	20:47
27	07:23			06:39		16:28 (24)		05:54	05:18		05:41 (12)	05:12
	16:57			17:41	45	17:13 (24)		19:56	20:30	52	20:04 (23)	20:47
28	07:22			06:38		16:28 (24)		05:52	05:17		05:40 (12)	05:13
	16:58			17:42	45	17:13 (24)		19:57	20:31	54	20:04 (23)	20:47
29	07:20					06:45		05:51	05:16		05:39 (12)	05:13
	17:00					19:20		19:59	20:32	55	20:04 (23)	20:47
30	07:19					06:43		05:49	05:15		05:39 (12)	05:14
	17:01					19:21		20:00	20:33	56	20:05 (23)	20:47
31	07:18					06:41			05:15		05:38 (12)	
	17:03					19:22			20:34	58	20:05 (23)	
Potential sun hours	286		291			369		404	459			466
Total, worst case		979		475		575			733			1953
Sun reduction		0.41		0.48		0.51			0.56			0.59
Oper. time red.		1.00		1.00		1.00			1.00			1.00
Wind dir. red.		0.76		0.78		0.78			0.62			0.66
Total reduction		0.32		0.38		0.40			0.35			0.40
Total, real		312		181		233			259			772

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 189 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (778)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:39 (12)	05:42	19:50 (23)	06:18	06:54	17:12 (24)	06:34		07:14	14:18 (28)
2	05:15	05:39 (12)	05:43	19:56 (23)	06:19	06:55	17:10 (24)	06:35		07:15	14:17 (28)
3	05:15	05:40 (12)	05:44		06:20	06:56	17:09 (24)	06:37		07:16	14:17 (28)
4	05:16	05:40 (12)	05:45		06:22	06:58	17:07 (24)	06:38		07:17	14:18 (28)
5	05:16	05:41 (12)	05:46		06:23	06:59	17:06 (24)	06:40		07:18	14:18 (28)
6	05:17	05:42 (12)	05:47		06:24	07:00	17:04 (24)	06:41		07:19	14:18 (28)
7	05:18	05:42 (12)	05:48		06:25	07:01	17:04 (24)	06:42		07:20	14:18 (28)
8	05:18	05:43 (12)	05:50		06:26	07:03	17:03 (24)	06:44		07:21	14:18 (28)
9	05:19	05:44 (12)	05:51		06:28	07:04	17:02 (24)	06:45		07:22	14:19 (28)
10	05:20	05:44 (12)	05:52		06:29	07:05	17:01 (24)	06:46		07:23	14:19 (28)
11	05:21	05:45 (12)	05:53		06:30	07:06	17:02 (24)	06:48		07:24	14:19 (28)
12	05:22	05:46 (12)	05:54		06:31	07:08	17:01 (24)	06:49		07:25	14:20 (28)
13	05:22	05:47 (12)	05:56		06:32	07:09	17:00 (24)	06:50		07:26	14:19 (28)
14	05:23	05:48 (12)	05:57		06:33	07:10	17:01 (24)	06:52		07:26	14:20 (28)
15	05:24	05:49 (12)	05:58		06:35	07:11	17:01 (24)	06:53		07:27	14:20 (28)
16	05:25	05:49 (12)	05:59		06:36	07:13	17:01 (24)	06:55		07:28	14:21 (28)
17	05:26	05:50 (12)	06:00		06:37	07:14	17:02 (24)	06:56	14:32 (28)	07:29	14:21 (28)
18	05:27	05:51 (12)	06:01		06:38	07:15	17:02 (24)	06:57	14:41 (28)	07:29	14:22 (28)
19	05:28	05:52 (12)	06:03		06:39	07:17	17:03 (24)	06:59	14:46 (28)	07:30	14:22 (28)
20	05:29	05:53 (12)	06:04		06:41	07:18	17:03 (24)	07:00	14:48 (28)	07:31	14:22 (28)
21	05:30	05:54 (12)	06:05		06:42	07:19	17:04 (24)	07:01	14:51 (28)	07:31	14:23 (28)
22	05:31	05:55 (12)	06:06		06:43	07:21	17:05 (24)	07:02	14:52 (28)	07:32	14:23 (28)
23	05:32	05:56 (12)	06:07		06:44	07:22	17:06 (24)	07:04	14:53 (28)	07:32	14:24 (28)
24	05:33	05:57 (12)	06:08		06:45	07:23	17:07 (24)	07:05	14:54 (28)	07:33	14:24 (28)
25	05:34	05:58 (12)	06:09		06:46	07:24	17:08 (24)	07:06	14:55 (28)	07:33	14:24 (28)
26	05:35	05:59 (12)	06:10		06:47	07:25	17:09 (24)	07:07	14:56 (28)	07:34	14:25 (28)
27	05:36	06:00 (12)	06:11		06:48	07:26	17:10 (24)	07:08	14:57 (28)	07:34	14:25 (28)
28	05:37	06:01 (12)	06:12		06:49	07:27	17:11 (24)	07:09	14:58 (28)	07:35	14:26 (28)
29	05:38	06:02 (12)	06:13		06:50	07:28	17:12 (24)	07:10	14:59 (28)	07:35	14:26 (28)
30	05:39	06:03 (12)	06:14		06:51	07:29	17:13 (24)	07:11	15:00 (28)	07:36	14:27 (28)
31	05:41	06:04 (12)	06:16		06:53	07:31	17:14 (24)	07:13	15:01 (28)	07:36	14:27 (28)
Potential sun hours	472	436		376		341		288		275	
Total, worst case	1452	6		70		993		450		1546	
Sun reduction	0.64	0.60		0.54		0.47		0.31		0.33	
Oper. time red.	1.00	1.00		1.00		1.00		1.00		1.00	
Wind dir. red.	0.64	0.59		0.78		0.78		0.76		0.76	
Total reduction	0.41	0.36		0.43		0.37		0.24		0.26	
Total, real	602	2		30		370		108		396	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)		Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 190 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (779)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:09 (28)	07:17	15:31 (28)	06:36	16:44 (24)	06:39	05:48	19:19 (23)	05:14	19:26 (23)
	16:26	41	15:50 (28)	17:04	19	15:50 (28)	17:43	20:00	18	19:37 (23)	20:34
2	07:35	15:09 (28)	07:16	15:34 (28)	06:34	16:44 (24)	06:37	05:46		19:17 (23)	05:14
	16:27	41	15:50 (28)	17:06	13	15:47 (28)	17:45	20:01	20	19:37 (23)	20:35
3	07:35	15:09 (28)	07:15		06:32	16:43 (24)	06:35	05:45		19:16 (23)	05:13
	16:28	42	15:51 (28)	17:07		17:46	37	20:02	23	19:39 (23)	20:36
4	07:35	15:10 (28)	07:14		06:31	16:43 (24)	06:33	05:43		19:15 (23)	05:13
	16:29	42	15:52 (28)	17:08		17:48	36	20:04	24	19:39 (23)	20:37
5	07:35	15:10 (28)	07:12		06:29	16:43 (24)	06:32	05:42		19:14 (23)	05:12
	16:30	42	15:52 (28)	17:10		17:49	36	20:05	27	19:41 (23)	20:38
6	07:35	15:11 (28)	07:11		06:27	16:44 (24)	06:30	05:40		19:14 (23)	05:12
	16:31	42	15:53 (28)	17:11		17:50	35	20:06	28	19:42 (23)	20:39
7	07:34	15:12 (28)	07:10		06:25	16:44 (24)	06:28	05:39		19:14 (23)	05:11
	16:32	42	15:54 (28)	17:13		17:52	34	20:07	30	19:44 (23)	20:39
8	07:34	15:11 (28)	07:09		07:24	17:44 (24)	06:26	05:38		19:12 (23)	05:11
	16:33	43	15:54 (28)	17:14		18:53	33	20:09	32	19:44 (23)	20:40
9	07:34	15:12 (28)	07:07		07:22	17:45 (24)	06:24	05:36		19:12 (23)	05:11
	16:34	42	15:54 (28)	17:16		18:54	31	20:10	34	19:46 (23)	20:41
10	07:34	15:13 (28)	07:06		07:20	17:45 (24)	06:23	05:35		19:12 (23)	05:11
	16:35	42	15:55 (28)	17:17		18:55	29	20:11	35	19:47 (23)	20:41
11	07:33	15:12 (28)	07:04		07:18	17:46 (24)	06:21	05:34		19:12 (23)	05:10
	16:36	43	15:55 (28)	17:18		18:57	27	20:12	35	19:47 (23)	20:42
12	07:33	15:13 (28)	07:03		07:16	17:49 (24)	06:19	05:33		19:12 (23)	05:10
	16:37	43	15:56 (28)	17:20		18:58	23	20:13	34	19:46 (23)	20:42
13	07:33	15:13 (28)	07:02		07:14	17:50 (24)	06:17	05:31		19:12 (23)	05:10
	16:39	43	15:56 (28)	17:21		18:59	19	20:15	35	19:47 (23)	20:43
14	07:32	15:14 (28)	07:00		07:13	17:53 (24)	06:15	05:30		19:12 (23)	05:10
	16:40	43	15:57 (28)	17:23		19:01	12	20:16	35	19:47 (23)	20:44
15	07:32	15:14 (28)	06:59		07:11	18:05 (24)	06:14	05:29		19:12 (23)	05:10
	16:41	43	15:57 (28)	17:24		19:02		20:17	34	19:46 (23)	20:44
16	07:31	15:14 (28)	06:57		07:09	18:06 (24)	06:12	05:28		19:12 (23)	05:10
	16:42	43	15:57 (28)	17:26		19:03		20:18	34	19:46 (23)	20:45
17	07:30	15:15 (28)	06:56		07:07	17:49 (24)	06:10	05:27		19:13 (23)	05:10
	16:44	43	15:58 (28)	17:27		19:05		20:19	33	19:46 (23)	20:45
18	07:30	15:16 (28)	06:54		07:05	17:50 (24)	06:09	05:26		19:13 (23)	05:10
	16:45	41	15:57 (28)	17:28		19:06		20:20	33	19:46 (23)	20:45
19	07:29	15:16 (28)	06:52		07:03	17:02 (24)	06:07	05:25		19:13 (23)	05:10
	16:46	41	15:57 (28)	17:30	4	17:06 (24)	19:07	20:21	32	19:45 (23)	20:46
20	07:28	15:16 (28)	06:51		07:01	16:56 (24)	06:05	05:24		19:14 (23)	05:10
	16:48	41	15:57 (28)	17:31	11	17:07 (24)	19:08	20:22	31	19:45 (23)	20:46
21	07:28	15:18 (28)	06:49		07:00	16:53 (24)	07:00	05:23		19:14 (23)	05:10
	16:49	40	15:58 (28)	17:33	16	17:09 (24)	19:10	20:24	30	19:44 (23)	20:46
22	07:27	15:18 (28)	06:48		06:58	16:51 (24)	06:58	05:22		19:15 (23)	05:11
	16:50	40	15:58 (28)	17:34	20	17:11 (24)	19:11	20:25	29	19:44 (23)	20:47
23	07:26	15:19 (28)	06:46		06:56	16:49 (24)	06:56	05:21		19:16 (23)	05:11
	16:52	39	15:58 (28)	17:35	23	17:12 (24)	19:12	20:26	28	19:44 (23)	20:47
24	07:25	15:20 (28)	06:44		06:54	16:48 (24)	06:54	05:20		19:17 (23)	05:11
	16:53	37	15:57 (28)	17:37	25	17:13 (24)	19:14	20:27	26	19:43 (23)	20:47
25	07:24	15:21 (28)	06:43		06:52	16:47 (24)	06:52	05:19		19:17 (23)	05:11
	16:54	36	15:57 (28)	17:38	28	17:15 (24)	19:15	20:28	26	19:43 (23)	20:47
26	07:23	15:22 (28)	06:41		06:50	16:46 (24)	06:50	05:18		19:18 (23)	05:12
	16:56	34	15:56 (28)	17:39	30	17:16 (24)	19:16	20:29	24	19:42 (23)	20:47
27	07:22	15:23 (28)	06:39		06:48	16:45 (24)	06:48	05:18		19:20 (23)	05:12
	16:57	33	15:56 (28)	17:41	32	17:17 (24)	19:17	20:30	22	19:42 (23)	20:47
28	07:22	15:24 (28)	06:38		06:46	16:44 (24)	06:46	05:52		19:20 (23)	05:13
	16:58	31	15:55 (28)	17:42	35	17:19 (24)	19:19	19:57	8	19:33 (23)	20:31
29	07:20	15:26 (28)			06:45			05:51		19:23 (23)	05:16
	17:00	28	15:54 (28)		19:20			19:59	12	19:35 (23)	20:32
30	07:19	15:27 (28)			06:43			05:49		19:20 (23)	05:15
	17:01	26	15:53 (28)		19:21			20:00	15	19:35 (23)	20:33
31	07:18	15:28 (28)			06:41			05:15		19:24 (23)	
	17:03	23	15:51 (28)		19:22			20:34	13	19:37 (23)	
Potential sun hours	286		291		369		404	459		466	
Total, worst case		1210		256		424		35		860	243
Sun reduction		0.41		0.48		0.51		0.49		0.56	0.59
Oper. time red.		1.00		1.00		1.00		1.00		1.00	1.00
Wind dir. red.		0.79		0.78		0.77		0.62		0.62	0.78
Total reduction		0.33		0.38		0.40		0.31		0.35	0.47
Total, real		398		97		170		11		304	114

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

Jericho_SFA_2015_08_28

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 190 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (779)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:14		05:39 (12)	05:42		19:22 (23)	06:18		06:54		17:28 (24)	06:34		07:14		14:54 (28)		
	20:47	8	05:47 (12)	20:25	35	19:57 (23)	19:35		18:39	21	17:49 (24)	16:46		16:17	43	15:37 (28)		
2	05:15		05:39 (12)	05:43		19:22 (23)	06:19		06:55		17:26 (24)	06:35		07:15		14:55 (28)		
	20:47	7	05:46 (12)	20:24	35	19:57 (23)	19:33		18:37	25	17:51 (24)	16:45		16:17	42	15:37 (28)		
3	05:15		05:40 (12)	05:44		19:22 (23)	06:20		06:56		17:25 (24)	06:37		07:16		14:55 (28)		
	20:47	6	05:46 (12)	20:23	34	19:56 (23)	19:31		18:35	27	17:52 (24)	16:43		16:17	43	15:38 (28)		
4	05:16		05:40 (12)	05:45		19:23 (23)	06:22		06:58		17:23 (24)	06:38		07:17		14:56 (28)		
	20:46	5	05:45 (12)	20:21	33	19:56 (23)	19:30		18:33	30	17:53 (24)	16:42		16:16	43	15:39 (28)		
5	05:16		05:41 (12)	05:46		19:23 (23)	06:23		06:59		17:21 (24)	06:40		07:18		14:57 (28)		
	20:46	4	05:45 (12)	20:20	31	19:54 (23)	19:28		18:31	32	17:53 (24)	16:41		16:16	42	15:39 (28)		
6	05:17		05:42 (12)	05:47		19:23 (23)	06:24		07:00		17:20 (24)	06:41		07:19		14:57 (28)		
	20:46	3	05:45 (12)	20:19	30	19:53 (23)	19:26		18:29	33	17:53 (24)	16:39		16:16	42	15:39 (28)		
7	05:18		05:42 (12)	05:48		19:24 (23)	06:25		07:01		17:20 (24)	06:42		07:20		14:57 (28)		
	20:46	2	05:44 (12)	20:17	28	19:52 (23)	19:24		18:28	34	17:54 (24)	16:38		16:16	42	15:39 (28)		
8	05:18			05:50		19:24 (23)	06:26		07:03		17:19 (24)	06:44		07:21		14:58 (28)		
	20:45			20:16	26	19:50 (23)	19:22		18:26	35	17:54 (24)	16:37		16:16	42	15:40 (28)		
9	05:19			05:51		19:24 (23)	06:28		07:04		17:18 (24)	06:45	15:05 (28)	07:22		14:58 (28)		
	20:45			20:15	25	19:49 (23)	19:20		18:24	36	17:54 (24)	16:36	13	15:18 (28)	42	15:40 (28)		
10	05:20			05:52		19:25 (23)	06:29		07:05		17:17 (24)	06:46		15:02 (28)	07:23	14:59 (28)		
	20:44			20:13	22	19:47 (23)	19:18		18:22	37	17:54 (24)	16:35	19	15:21 (28)	41	15:40 (28)		
11	05:21		19:34 (23)	05:53		19:26 (23)	06:30		07:06		17:18 (24)	06:48		15:00 (28)	07:24	15:00 (28)		
	20:44	9	19:43 (23)	20:12	20	19:46 (23)	19:17		18:20	36	17:54 (24)	16:33	23	15:23 (28)	41	15:41 (28)		
12	05:22		19:33 (23)	05:54		19:27 (23)	06:31		07:08		17:17 (24)	06:49		14:58 (28)	07:25	15:00 (28)		
	20:43	12	19:45 (23)	20:10	17	19:44 (23)	19:15		18:19	36	17:53 (24)	16:32	26	15:24 (28)	41	15:41 (28)		
13	05:22		19:32 (23)	05:56		19:29 (23)	06:32		07:09		17:17 (24)	06:50		14:58 (28)	07:26	15:00 (28)		
	20:43	15	19:47 (23)	20:09	15	19:44 (23)	19:13		18:17	35	17:52 (24)	16:31	28	15:26 (28)	41	15:41 (28)		
14	05:23		19:31 (23)	05:57		19:31 (23)	06:33		07:10		17:18 (24)	06:52		14:56 (28)	07:26	15:01 (28)		
	20:42	17	19:48 (23)	20:07	11	19:42 (23)	19:11		18:15	33	17:51 (24)	16:30	31	15:27 (28)	40	15:41 (28)		
15	05:24		19:30 (23)	05:58		19:34 (23)	06:35		07:11		17:18 (24)	06:53		14:56 (28)	07:27	15:02 (28)		
	20:41	19	19:49 (23)	20:06	6	19:40 (23)	19:09		18:13	31	17:49 (24)	16:29	33	15:29 (28)	40	15:42 (28)		
16	05:25		19:28 (23)	05:59			06:36		07:13		17:18 (24)	06:55		14:55 (28)	07:28	15:02 (28)		
	20:41	22	19:50 (23)	20:04			19:07		18:12	29	17:47 (24)	16:28	34	15:29 (28)	41	15:43 (28)		
17	05:26		19:28 (23)	06:00			06:37		07:14		17:19 (24)	06:56		14:54 (28)	07:29	15:02 (28)		
	20:40	23	19:51 (23)	20:03			19:05		18:10	27	17:46 (24)	16:27	36	15:30 (28)	40	15:42 (28)		
18	05:27		19:27 (23)	06:01			06:38		07:15		17:20 (24)	06:57		14:54 (28)	07:29	15:03 (28)		
	20:39	25	19:52 (23)	20:01			19:03		18:08	24	17:44 (24)	16:26	37	15:31 (28)	40	15:43 (28)		
19	05:28		19:27 (23)	06:03			06:39		07:17		17:21 (24)	06:59		14:53 (28)	07:30	15:04 (28)		
	20:38	26	19:53 (23)	19:58			19:01		18:07	22	17:43 (24)	16:25	39	15:32 (28)	40	15:44 (28)		
20	05:29		19:26 (23)	06:04			06:41		07:18		17:22 (24)	07:00		14:53 (28)	07:31	15:04 (28)		
	20:38	27	19:53 (23)	19:56			19:00		18:05	19	17:41 (24)	16:24	40	15:33 (28)	40	15:44 (28)		
21	05:30		19:26 (23)	06:05			06:42		07:19		17:24 (24)	07:01		14:53 (28)	07:31	15:05 (28)		
	20:37	28	19:54 (23)	19:54			18:58		18:03	15	17:39 (24)	16:24	40	15:33 (28)	40	15:45 (28)		
22	05:31		19:25 (23)	06:06			06:43		07:21		17:27 (24)	07:02		14:52 (28)	07:32	15:05 (28)		
	20:36	30	19:55 (23)	19:53			18:56		18:02	10	17:37 (24)	16:23	41	15:33 (28)	40	15:45 (28)		
23	05:32		19:25 (23)	06:07			06:44		07:22			07:04		14:53 (28)	07:32	15:06 (28)		
	20:35	30	19:55 (23)	19:51			18:54		18:00			16:22	41	15:34 (28)	40	15:46 (28)		
24	05:33		19:24 (23)	06:09			06:45		07:23			07:05		14:53 (28)	07:33	15:06 (28)		
	20:34	32	19:56 (23)	19:49			18:52		17:58			16:21	41	15:34 (28)	40	15:46 (28)		
25	05:34		19:24 (23)	06:10			06:47		07:25			07:06		14:52 (28)	07:33	15:06 (28)		
	20:33	32	19:56 (23)	19:48			18:50		17:57			16:21	43	15:35 (28)	40	15:46 (28)		
26	05:35		19:24 (23)	06:11			06:48		07:26			07:08		14:53 (28)	07:33	15:07 (28)		
	20:32	33	19:57 (23)	19:46			18:48		17:55			16:20	43	15:36 (28)	40	15:47 (28)		
27	05:36		19:23 (23)	06:12			06:49		07:27			07:09		14:53 (28)	07:34	15:07 (28)		
	20:31	34	19:57 (23)	19:44			18:46		17:54			16:19	43	15:36 (28)	40	15:47 (28)		
28	05:37		19:23 (23)	06:13			06:50		07:29			07:10		14:53 (28)	07:34	15:07 (28)		
	20:30	34	19:57 (23)	19:42			18:44		17:52			16:19	43	15:36 (28)	41	15:48 (28)		
29	05:38		19:23 (23)	06:14			06:51		07:30			07:11		14:54 (28)	07:34	15:08 (28)		
	20:29	34	19:57 (23)	19:41			18:43	8	17:44 (24)	17:51		16:18	43	15:37 (28)	40	15:48 (28)		
30	05:39		19:22 (23)	06:16			06:53		07:31			07:12		14:54 (28)	07:34	15:08 (28)		
	20:28	35	19:57 (23)	19:39			18:41	16	17:47 (24)	17:49		16:18	43	15:37 (28)	41	15:49 (28)		
31	05:40		19:22 (23)	06:17					07:33						07:35	15:08 (28)		
	20:26	35	19:57 (23)	19:37					17:48						16:25	41	15:49 (28)	
Potential sun hours	472			436			376		341				288		275			
Total, worst case		587			368			24		627			780			1269		
Sun reduction		0.64			0.60			0.54		0.47			0.31			0.33		
Oper. time red.		1.00			1.00			1.00		1.00			1.00			1.00		
Wind dir. red.		0.63			0.62			0.77		0.77			0.79			0.79		
Total reduction		0.41			0.38			0.43		0.37			0.25			0.26		
Total, real		241			139			10		232			194			336		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)		Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 191 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (780)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	14:59 (28)	07:17	15:16 (28)	06:36	16:53 (24)	06:39	05:48		05:14	19:30 (23)	
	16:26	47	15:46 (28)	17:04	35	15:51 (28)	17:43	28	17:21 (24)	19:24	20:08 (23)	
2	07:35	14:59 (28)	07:16	15:17 (28)	06:34	16:51 (24)	06:37	05:46		05:14	19:30 (23)	
	16:27	48	15:47 (28)	17:06	33	15:50 (28)	17:45	31	17:22 (24)	19:25	20:08 (23)	
3	07:35	14:59 (28)	07:15	15:19 (28)	06:32	16:50 (24)	06:35	05:45		05:13	19:30 (23)	
	16:28	48	15:47 (28)	17:07	30	15:49 (28)	17:46	33	17:23 (24)	19:26	20:08 (23)	
4	07:35	15:00 (28)	07:14	15:21 (28)	06:31	16:48 (24)	06:33	05:43		05:13	19:30 (23)	
	16:29	48	15:48 (28)	17:08	26	15:47 (28)	17:48	36	17:24 (24)	19:27	20:08 (23)	
5	07:35	15:00 (28)	07:12	15:23 (28)	06:29	16:47 (24)	06:32	05:42		05:12	19:30 (23)	
	16:30	49	15:49 (28)	17:10	23	15:46 (28)	17:49	39	17:26 (24)	19:29	20:09 (23)	
6	07:35	15:01 (28)	07:11	15:27 (28)	06:27	16:47 (24)	06:30	05:40		05:12	19:31 (23)	
	16:31	49	15:50 (28)	17:11	16	15:43 (28)	17:50	40	17:27 (24)	19:30	20:09 (23)	
7	07:34	15:01 (28)	07:10	15:32 (28)	06:25	16:47 (24)	06:28	05:39		05:12	19:30 (23)	
	16:32	49	15:50 (28)	17:13	5	15:37 (28)	17:52	40	17:27 (24)	19:31	20:09 (23)	
8	07:34	15:01 (28)	07:09		07:24	17:46 (24)	06:26	05:38		05:11	19:31 (23)	
	16:33	49	15:50 (28)	17:14	18:53	41	18:27 (24)	19:32	20:09	20:40	20:09 (23)	
9	07:34	15:02 (28)	07:07		07:22	17:45 (24)	06:24	05:36		05:11	05:35 (12)	
	16:34	49	15:51 (28)	17:16	18:54	42	18:27 (24)	19:34	20:10	20:41	20:10 (23)	
10	07:34	15:02 (28)	07:06		07:20	17:45 (24)	06:23	05:35		05:11	05:35 (12)	
	16:35	50	15:52 (28)	17:17	18:55	41	18:26 (24)	19:35	20:11	20:41	20:10 (23)	
11	07:33	15:02 (28)	07:04		07:18	17:45 (24)	06:21	05:34		05:10	05:35 (12)	
	16:36	50	15:52 (28)	17:18	18:57	41	18:26 (24)	19:36	20:12	20:42	20:10 (23)	
12	07:33	15:03 (28)	07:03		07:16	17:46 (24)	06:19	05:33		05:10	05:34 (12)	
	16:37	50	15:53 (28)	17:20	18:58	40	18:26 (24)	19:37	20:13	20:42	20:10 (23)	
13	07:33	15:03 (28)	07:02		07:14	17:45 (24)	06:17	05:31		19:43 (23)	05:10	
	16:39	50	15:53 (28)	17:21	18:59	41	18:26 (24)	19:39	20:15	7	20:10 (23)	
14	07:32	15:04 (28)	07:00		07:13	17:46 (24)	06:15	05:30		19:40 (23)	05:10	
	16:40	50	15:54 (28)	17:23	19:01	39	18:25 (24)	19:40	20:16	11	20:10 (23)	
15	07:32	15:04 (28)	06:59		07:11	17:46 (24)	06:14	05:29		19:38 (23)	05:10	
	16:41	50	15:54 (28)	17:24	19:02	38	18:24 (24)	19:41	20:17	14	20:10 (23)	
16	07:31	15:04 (28)	06:57		07:09	17:46 (24)	06:12	05:28		19:36 (23)	05:10	
	16:42	50	15:54 (28)	17:26	19:03	36	18:22 (24)	19:42	20:18	17	20:10 (23)	
17	07:30	15:05 (28)	06:56		07:07	17:47 (24)	06:10	05:27		19:35 (23)	05:10	
	16:44	50	15:55 (28)	17:27	19:05	34	18:21 (24)	19:44	20:19	19	20:11 (23)	
18	07:30	15:05 (28)	06:54		07:05	17:48 (24)	06:09	05:26		19:34 (23)	05:10	
	16:45	50	15:55 (28)	17:28	19:06	32	18:20 (24)	19:45	20:20	21	20:11 (23)	
19	07:29	15:05 (28)	06:53		07:03	17:49 (24)	06:07	05:25		19:33 (23)	05:10	
	16:46	50	15:55 (28)	17:30	19:07	29	18:18 (24)	19:46	20:21	23	20:12 (23)	
20	07:28	15:05 (28)	06:51		07:01	17:51 (24)	06:05	05:24		19:32 (23)	05:10	
	16:48	50	15:55 (28)	17:31	19:08	26	18:17 (24)	19:47	20:22	25	20:12 (23)	
21	07:28	15:07 (28)	06:49		07:00	17:53 (24)	06:03	05:23		19:32 (23)	05:10	
	16:49	49	15:56 (28)	17:33	19:10	21	18:14 (24)	19:49	20:24	26	20:12 (23)	
22	07:27	15:07 (28)	06:48		06:58	17:56 (24)	06:02	05:22		19:31 (23)	05:11	
	16:50	48	15:55 (28)	17:34	19:11	15	18:11 (24)	19:50	20:25	28	20:12 (23)	
23	07:26	15:08 (28)	06:46		06:56		06:00	05:21		19:31 (23)	05:11	
	16:52	47	15:55 (28)	17:35	19:12		19:51	20:26	30	20:01 (23)	20:47	
24	07:25	15:08 (28)	06:44		06:54		05:59	05:20		19:31 (23)	05:11	
	16:53	47	15:55 (28)	17:37	19:14		19:52	20:27	30	20:01 (23)	20:47	
25	07:24	15:09 (28)	06:43		17:03 (24)	06:52	05:57	05:19		19:30 (23)	05:11	
	16:54	46	15:55 (28)	17:38	17:15 (24)	19:15	19:54	20:28	32	20:02 (23)	20:47	
26	07:23	15:10 (28)	06:41		16:59 (24)	06:50	05:55	05:18		19:30 (23)	05:12	
	16:56	45	15:55 (28)	17:39	17:16 (24)	19:16	19:55	20:29	33	20:03 (23)	20:47	
27	07:22	15:11 (28)	06:39		16:56 (24)	06:48	05:54	05:18		19:30 (23)	05:12	
	16:57	44	15:55 (28)	17:41	21	17:17 (24)	19:17	19:56	20:30	34	20:04 (23)	
28	07:22	15:12 (28)	06:38		16:54 (24)	06:46	05:52	05:17		19:30 (23)	05:13	
	16:58	42	15:54 (28)	17:42	25	17:19 (24)	19:19	19:57	20:31	35	20:05 (23)	
29	07:20	15:13 (28)			06:45		05:51	05:16		19:29 (23)	05:13	
	17:00	41	15:54 (28)		19:20		19:59	20:32	36	20:05 (23)	20:47	
30	07:19	15:14 (28)			06:43		05:49	05:15		19:30 (23)	05:14	
	17:01	39	15:53 (28)		19:21		20:00	20:33	37	20:07 (23)	20:47	
31	07:18	15:14 (28)			06:41			05:15		19:29 (23)		
	17:03	38	15:52 (28)		19:22			20:34	38	20:07 (23)		
Potential sun hours	286		291		369		404	459		466		
Total, worst case	1472		243		763			496		1255		
Sun reduction	0.41		0.48		0.51			0.56		0.59		
Oper. time red.	1.00		1.00		1.00			1.00		1.00		
Wind dir. red.	0.79		0.78		0.76			0.59		0.60		
Total reduction	0.33		0.38		0.40			0.34		0.37		
Total, real	486		93		305			167		459		

Project:

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 191 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (780)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14		05:39 (12)	05:42	06:18		06:54		17:24 (24)	06:34	07:14
	20:47	41	20:14 (23)	20:25	19:35		18:39		18:05 (24)	16:46	16:18
2	05:15		05:39 (12)	05:43	06:19		06:55		17:23 (24)	06:35	07:15
	20:47	40	20:14 (23)	20:24	19:33		18:37	41	18:04 (24)	16:45	16:17
3	05:15		05:40 (12)	05:44	06:20		06:56		17:24 (24)	06:37	07:16
	20:47	41	20:15 (23)	20:23	19:31		18:35	41	18:05 (24)	16:44	16:17
4	05:16		05:40 (12)	05:45	06:22		06:58		17:23 (24)	06:38	07:17
	20:46	39	20:14 (23)	20:21	19:30		18:33	41	18:04 (24)	16:42	16:16
5	05:16		19:36 (23)	05:46	06:23		06:59		17:23 (24)	06:40	07:18
	20:46	39	20:15 (23)	20:20	19:28		18:31	41	18:04 (24)	16:41	16:16
6	05:17		19:37 (23)	05:47	06:24		07:00		17:22 (24)	06:41	07:19
	20:46	38	20:15 (23)	20:19	19:26		18:30	41	18:03 (24)	16:40	16:16
7	05:18		19:36 (23)	05:48	06:25		07:01		17:23 (24)	06:42	07:20
	20:46	39	20:15 (23)	20:17	19:24		18:28	40	18:03 (24)	16:38	16:16
8	05:18		19:37 (23)	05:50	06:26		07:03		17:23 (24)	06:44	07:21
	20:45	38	20:15 (23)	20:16	19:22		18:26	39	18:02 (24)	16:37	16:16
9	05:19		19:37 (23)	05:51	06:28		07:04		17:23 (24)	06:45	07:22
	20:45	39	20:16 (23)	20:15	19:20		18:24	37	18:00 (24)	16:36	16:16
10	05:20		19:37 (23)	05:52	06:29		07:05		17:23 (24)	06:46	07:23
	20:44	38	20:15 (23)	20:13	19:18		18:22	35	17:58 (24)	16:35	16:16
11	05:21		19:37 (23)	05:53	06:30		07:06		17:24 (24)	06:48	07:24
	20:44	38	20:15 (23)	20:12	19:17		18:20	33	17:57 (24)	16:33	16:16
12	05:22		19:38 (23)	05:54	06:31		07:08		17:25 (24)	06:49	07:25
	20:43	38	20:16 (23)	20:10	19:15		18:19	30	17:55 (24)	16:32	16:16
13	05:22		19:38 (23)	05:56	06:32		07:09		17:26 (24)	06:50	07:26
	20:43	37	20:15 (23)	20:09	19:13		18:17	26	17:52 (24)	16:31	16:16
14	05:23		19:39 (23)	05:57	06:33		07:10		17:28 (24)	06:52	07:26
	20:42	36	20:15 (23)	20:07	19:11		18:15	23	17:51 (24)	16:30	16:16
15	05:24		19:39 (23)	05:58	06:35		07:11		17:29 (24)	06:53	07:27
	20:41	36	20:15 (23)	20:06	19:09		18:13	20	17:49 (24)	16:29	16:16
16	05:25		19:39 (23)	05:59	06:36		07:13		17:31 (24)	06:55	07:28
	20:41	34	20:13 (23)	20:04	19:07		18:12	16	17:47 (24)	16:28	16:16
17	05:26		19:39 (23)	06:00	06:37		07:14		17:36 (24)	06:56	07:29
	20:40	34	20:13 (23)	20:03	19:05		18:10	8	17:44 (24)	16:27	16:16
18	05:27		19:39 (23)	06:01	06:38		07:15		17:37 (24)	06:57	07:29
	20:39	33	20:12 (23)	20:01	19:03		18:08		17:38 (24)	06:58	07:29
19	05:28		19:40 (23)	06:03	06:39		07:17		17:39 (24)	06:59	07:30
	20:38	31	20:11 (23)	19:58	19:01		18:07		17:40 (24)	06:59	07:30
20	05:29		19:41 (23)	06:04	06:41		07:18		17:41 (24)	07:00	07:31
	20:38	30	20:11 (23)	19:56	19:00		18:05		17:42 (24)	07:01	07:31
21	05:30		19:41 (23)	06:05	06:42		07:19		17:43 (24)	07:02	07:32
	20:37	29	20:10 (23)	19:54	18:58	13	17:55 (24)		17:44 (24)	07:03	07:32
22	05:31		19:42 (23)	06:06	06:43		07:20		17:45 (24)	07:04	07:33
	20:36	27	20:09 (23)	19:53	18:56	20	17:56 (24)		17:46 (24)	07:05	07:34
23	05:32		19:42 (23)	06:07	06:44		07:21		17:47 (24)	07:06	07:35
	20:35	26	20:08 (23)	19:51	18:54	25	18:00 (24)		17:48 (24)	07:07	07:36
24	05:33		19:43 (23)	06:09	06:45		07:22		17:49 (24)	07:08	07:37
	20:34	24	20:07 (23)	19:49	18:52	28	18:02 (24)		17:50 (24)	07:09	07:38
25	05:34		19:44 (23)	06:10	06:47		07:23		17:51 (24)	07:10	07:39
	20:33	22	20:06 (23)	19:48	18:50	31	18:03 (24)		17:52 (24)	07:11	07:40
26	05:35		19:45 (23)	06:11	06:48		07:24		17:53 (24)	07:12	07:41
	20:32	20	20:05 (23)	19:46	18:48	33	18:04 (24)		17:54 (24)	07:13	07:42
27	05:36		19:46 (23)	06:12	06:49		07:25		17:55 (24)	07:14	07:43
	20:31	18	20:04 (23)	19:44	18:46	36	18:05 (24)		17:56 (24)	07:15	07:44
28	05:37		19:47 (23)	06:13	06:50		07:26		17:57 (24)	07:16	07:45
	20:30	16	20:03 (23)	19:42	18:44	37	18:06 (24)		17:58 (24)	07:17	07:46
29	05:38		19:48 (23)	06:14	06:51		07:27		17:59 (24)	07:18	07:47
	20:29	13	20:02 (23)	19:41	18:43	39	18:07 (24)		18:00 (24)	07:19	07:48
30	05:39		19:51 (23)	06:16	06:53		07:28		18:01 (24)	07:20	07:49
	20:28	10	20:01 (23)	19:39	18:41	40	18:08 (24)		18:02 (24)	07:21	07:50
31	05:40		19:56 (23)	06:17			07:29		18:03 (24)	07:22	07:51
	20:26	3	19:59 (23)	19:37			07:30		18:04 (24)	07:23	07:52
Potential sun hours	472		436		376		341		288		275
Total, worst case		947			302		553		1113		1465
Sun reduction		0.64			0.54		0.47		0.31		0.33
Oper. time red.		1.00			1.00		1.00		1.00		1.00
Wind dir. red.		0.59			0.76		0.76		0.79		0.79
Total reduction		0.39			0.42		0.37		0.25		0.27
Total, real		366			128		204		278		389

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

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Licensed user:

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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 208 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (797)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:32 (28)	07:17	07:39 (32)	06:36	07:02 (25)	06:39	18:36 (23)	05:48	05:14	05:39 (12)
2	07:35	15:32 (28)	07:16	07:39 (32)	06:34	07:01 (25)	06:37	18:36 (23)	05:46	05:14	05:38 (12)
3	07:35	15:32 (28)	07:15	07:39 (32)	06:32	07:01 (25)	06:35	18:36 (23)	05:45	05:13	05:38 (12)
4	07:35	15:32 (28)	07:14	07:39 (32)	06:31	07:01 (25)	06:33	18:37 (23)	05:43	05:13	05:37 (12)
5	07:35	15:32 (28)	07:13	07:39 (32)	06:30	07:01 (25)	06:32	18:38 (23)	05:42	05:12	05:36 (12)
6	07:35	15:32 (28)	07:12	07:39 (32)	06:29	07:01 (25)	06:31	18:39 (23)	05:41	05:12	05:36 (12)
7	07:35	15:32 (28)	07:11	07:39 (32)	06:28	07:01 (25)	06:30	18:40 (23)	05:40	05:11	05:35 (12)
8	07:35	15:32 (28)	07:10	07:39 (32)	06:27	07:01 (25)	06:29	18:41 (23)	05:39	05:11	05:35 (12)
9	07:35	15:32 (28)	07:09	07:39 (32)	06:26	07:01 (25)	06:28	18:42 (23)	05:38	05:11	05:35 (12)
10	07:35	15:32 (28)	07:08	07:39 (32)	06:25	07:01 (25)	06:27	18:43 (23)	05:37	05:11	05:35 (12)
11	07:35	15:32 (28)	07:07	07:39 (32)	06:24	07:01 (25)	06:26	18:44 (23)	05:36	05:11	05:35 (12)
12	07:35	15:32 (28)	07:06	07:39 (32)	06:23	07:01 (25)	06:25	18:45 (23)	05:35	05:11	05:35 (12)
13	07:35	15:32 (28)	07:05	07:39 (32)	06:22	07:01 (25)	06:24	18:46 (23)	05:34	05:11	05:35 (12)
14	07:35	15:32 (28)	07:04	07:39 (32)	06:21	07:01 (25)	06:23	18:47 (23)	05:33	05:11	05:35 (12)
15	07:35	15:32 (28)	07:03	07:39 (32)	06:20	07:01 (25)	06:22	18:48 (23)	05:32	05:11	05:35 (12)
16	07:35	15:32 (28)	07:02	07:39 (32)	06:19	07:01 (25)	06:21	18:49 (23)	05:31	05:11	05:35 (12)
17	07:35	15:32 (28)	07:01	07:39 (32)	06:18	07:01 (25)	06:20	18:50 (23)	05:30	05:11	05:35 (12)
18	07:35	15:32 (28)	07:00	07:39 (32)	06:17	07:01 (25)	06:19	18:51 (23)	05:29	05:11	05:35 (12)
19	07:35	15:32 (28)	06:59	07:39 (32)	06:16	07:01 (25)	06:18	18:52 (23)	05:28	05:11	05:35 (12)
20	07:35	15:32 (28)	06:58	07:39 (32)	06:15	07:01 (25)	06:17	18:53 (23)	05:27	05:11	05:35 (12)
21	07:35	15:32 (28)	06:57	07:39 (32)	06:14	07:01 (25)	06:16	18:54 (23)	05:26	05:11	05:35 (12)
22	07:35	15:32 (28)	06:56	07:39 (32)	06:13	07:01 (25)	06:15	18:55 (23)	05:25	05:11	05:35 (12)
23	07:35	15:32 (28)	06:55	07:39 (32)	06:12	07:01 (25)	06:14	18:56 (23)	05:24	05:11	05:35 (12)
24	07:35	15:32 (28)	06:54	07:39 (32)	06:11	07:01 (25)	06:13	18:57 (23)	05:23	05:11	05:35 (12)
25	07:35	15:32 (28)	06:53	07:39 (32)	06:10	07:01 (25)	06:12	18:58 (23)	05:22	05:11	05:35 (12)
26	07:35	15:32 (28)	06:52	07:39 (32)	06:09	07:01 (25)	06:11	18:59 (23)	05:21	05:11	05:35 (12)
27	07:35	15:32 (28)	06:51	07:39 (32)	06:08	07:01 (25)	06:10	19:00 (23)	05:20	05:11	05:35 (12)
28	07:35	15:32 (28)	06:50	07:39 (32)	06:07	07:01 (25)	06:09	19:01 (23)	05:19	05:11	05:35 (12)
29	07:35	15:32 (28)	06:49	07:39 (32)	06:06	07:01 (25)	06:08	19:02 (23)	05:18	05:11	05:35 (12)
30	07:35	15:32 (28)	06:48	07:39 (32)	06:05	07:01 (25)	06:07	19:03 (23)	05:17	05:11	05:35 (12)
31	07:35	15:32 (28)	06:47	07:39 (32)	06:04	07:01 (25)	06:06	19:04 (23)	05:16	05:11	05:35 (12)
Potential sun hours	286	291	369	404	459	466	1654				
Total, worst case	581	781	402	133	247	1654					
Sun reduction	0.41	0.48	0.51	0.49	0.56	0.59					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.77	0.66	0.65	0.71	0.79	0.79					
Total reduction	0.31	0.31	0.33	0.35	0.44	0.47					
Total, real	183	246	133	46	109	769					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 208 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (797)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:39 (12)	05:42	06:18		06:54		06:34		07:08 (32)	07:14
2	05:15	05:39 (12)	05:43	06:19		06:55		06:35		07:07 (32)	07:15
3	05:15	05:40 (12)	05:44	06:20		06:56		06:37		07:08 (32)	07:16
4	05:16	05:40 (12)	05:45	06:22		06:58		06:38		07:07 (32)	07:17
5	05:16	05:41 (12)	05:46	06:23	18:38 (23)	06:59		06:39		07:08 (32)	07:18
6	05:17	05:42 (12)	05:47	06:24	18:35 (23)	07:00		06:41		07:08 (32)	07:19
7	05:18	05:42 (12)	05:48	06:25	18:33 (23)	07:01		06:42		07:08 (32)	07:20
8	05:18	05:43 (12)	05:50	06:26	18:32 (23)	07:03		06:44		07:09 (32)	07:21
9	05:19	05:45 (12)	05:51	06:27	18:30 (23)	07:04		06:45		07:10 (32)	07:22
10	05:20	05:45 (12)	05:52	06:29	18:29 (23)	07:05		06:46		07:10 (32)	07:23
11	05:21	05:46 (12)	05:53	06:30	18:28 (23)	07:06		06:48		07:12 (32)	07:24
12	05:22	05:47 (12)	05:54	06:31	18:28 (23)	07:08		06:49		07:13 (32)	07:25
13	05:22	05:49 (12)	05:55	06:32	18:28 (23)	07:09		06:50		07:16 (32)	07:26
14	05:23	05:50 (12)	05:57	06:33	18:28 (23)	07:10		06:52		07:19 (32)	07:26
15	05:24	05:52 (12)	05:58	06:35	18:28 (23)	07:11		06:53		07:23 (32)	07:27
16	05:25	05:52 (12)	05:59	06:36	18:28 (23)	07:13		06:55		07:28	07:28
17	05:26	05:54 (12)	06:00	06:37	18:24 (23)	07:14		06:56		07:29	07:29
18	05:27	05:57 (12)	06:01	06:38	18:29 (23)	07:15		06:57		07:29	07:29
19	05:28	06:00 (12)	06:03	06:39	18:32 (23)	07:17		06:59		15:23 (28)	07:30
20	05:29	06:04 (12)	06:04	06:41	18:35 (23)	07:18		07:00		15:21 (28)	07:31
21	05:30	06:15 (12)	06:05	06:42	18:36 (23)	07:19		07:01		15:35 (28)	07:31
22	05:31	06:15 (12)	06:06	06:43		07:21		07:02		15:20 (28)	07:31
23	05:32	06:16 (12)	06:07	06:44		07:22		07:04		15:36 (28)	07:32
24	05:33	06:17 (12)	06:09	06:45		07:23		07:05		15:19 (28)	07:32
25	05:34	06:18 (12)	06:10	06:47		07:25		07:06		15:39 (28)	07:33
26	05:35	06:19 (12)	06:11	06:48		07:26		07:08		15:18 (28)	07:33
27	05:36	06:20 (12)	06:12	06:49		07:27		07:09		15:40 (28)	07:33
28	05:37	06:21 (12)	06:13	06:50		07:29		07:10		15:18 (28)	07:34
29	05:38	06:22 (12)	06:14	06:51		07:30		07:11		15:42 (28)	07:34
30	05:39	06:23 (12)	06:15	06:52		07:31		07:12		15:17 (28)	07:34
31	05:40	06:24 (12)	06:16	06:53		07:33		07:14		15:43 (28)	07:34
Potential sun hours	472	436	376	341	288	275				15:18 (28)	07:34
Total, worst case	832		265	799	565	751				15:44 (28)	07:35
Sun reduction	0.64		0.54	0.47	0.31	0.33				16:25	07:35
Oper. time red.	1.00		1.00	1.00	1.00	1.00				16:25	07:35
Wind dir. red.	0.79		0.71	0.67	0.68	0.79				16:25	07:35
Total reduction	0.50		0.38	0.31	0.21	0.26				16:25	07:35
Total, real	420		101	249	119	195				16:25	07:35

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 209 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (798)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:35 (28)	07:17	07:39 (32)	06:36	06:59 (25)	06:39	18:39 (23)	05:48	05:14	
2	16:26	22	15:57 (28)	17:04	15	07:54 (32)	17:43	29	07:28 (25)	19:24	22
3	07:35	15:35 (28)	07:16	07:38 (32)	06:34	06:58 (25)	06:37	24	18:38 (23)	05:46	05:14
4	16:27	23	15:58 (28)	17:06	18	07:56 (32)	17:45	30	07:28 (25)	19:25	24
5	07:35	15:35 (28)	07:15	07:37 (32)	06:32	06:58 (25)	06:35	24	18:38 (23)	05:45	05:13
6	16:28	24	15:59 (28)	17:07	20	07:57 (32)	17:46	30	07:28 (25)	19:26	24
7	07:35	15:36 (28)	07:14	07:36 (32)	06:31	06:57 (25)	06:33	23	18:39 (23)	05:43	05:13
8	16:29	24	16:00 (28)	17:08	22	07:58 (32)	17:47	30	07:27 (25)	19:27	23
9	07:35	15:36 (28)	07:12	07:36 (32)	06:29	06:57 (25)	06:32	22	18:39 (23)	05:42	05:12
10	16:30	25	16:01 (28)	17:10	23	07:59 (32)	17:49	30	07:27 (25)	19:29	22
11	07:35	15:37 (28)	07:11	07:36 (32)	06:27	06:58 (25)	06:30	19	18:40 (23)	05:40	05:12
12	16:31	26	16:03 (28)	17:11	24	08:00 (32)	17:50	29	07:27 (25)	19:30	19
13	07:34	15:37 (28)	07:10	07:35 (32)	06:25	06:58 (25)	06:28	17	18:40 (23)	05:39	05:11
14	16:32	27	16:04 (28)	17:13	24	07:59 (32)	17:51	28	18:57 (23)	05:37	05:11
15	07:34	15:37 (28)	07:09	07:35 (32)	07:24	07:58 (25)	06:26	13	18:42 (23)	05:38	05:11
16	16:33	26	16:03 (28)	17:14	29	16:49 (24)	18:53	27	18:55 (23)	05:36	05:11
17	07:34	15:38 (28)	07:07	07:36 (32)	07:22	07:58 (25)	06:24	7	18:44 (23)	05:36	05:11
18	16:34	26	16:04 (28)	17:16	31	16:51 (24)	18:54	26	18:51 (23)	05:35	05:11
19	07:34	15:39 (28)	07:06	07:35 (32)	07:20	07:59 (25)	06:23	19	18:51 (23)	05:35	05:11
20	16:35	26	16:05 (28)	17:17	35	16:52 (24)	18:55	23	18:51 (23)	05:34	05:10
21	07:33	15:38 (28)	07:04	07:36 (32)	07:18	08:00 (25)	06:21	17	18:51 (23)	05:34	05:10
22	16:36	27	16:05 (28)	17:18	37	16:54 (24)	18:57	21	18:51 (23)	05:33	05:10
23	07:33	15:39 (28)	07:03	07:36 (32)	07:16	08:02 (25)	06:19	19	18:51 (23)	05:33	05:10
24	16:37	27	16:06 (28)	17:20	38	16:55 (24)	18:58	17	18:51 (23)	05:32	05:10
25	07:33	15:39 (28)	07:02	07:37 (32)	07:14	08:05 (25)	06:17	19	18:51 (23)	05:31	05:10
26	16:39	26	16:05 (28)	17:21	39	16:57 (24)	18:59	11	18:51 (23)	05:31	05:10
27	07:32	15:40 (28)	07:00	07:37 (32)	07:13	08:16 (25)	06:15	19	18:51 (23)	05:30	05:10
28	16:40	26	16:06 (28)	17:23	39	16:58 (24)	19:01	19	18:51 (23)	05:30	05:10
29	07:32	15:40 (28)	06:59	07:39 (32)	07:11	08:16 (25)	06:14	19	18:51 (23)	05:29	05:10
30	16:41	26	16:06 (28)	17:24	39	17:00 (24)	19:02	19	18:51 (23)	05:29	05:10
31	07:31	15:41 (28)	06:57	07:40 (32)	07:09	08:16 (25)	06:12	19	18:51 (23)	05:28	05:10
32	16:42	25	16:06 (28)	17:25	38	17:01 (24)	19:03	19	18:51 (23)	05:28	05:10
33	07:30	15:42 (28)	06:56	07:43 (32)	07:07	08:16 (25)	06:10	19	18:51 (23)	05:27	05:10
34	16:44	25	16:07 (28)	17:27	34	17:03 (24)	19:05	19	18:51 (23)	05:27	05:10
35	07:30	15:42 (28)	06:54	16:39 (24)	07:05	08:16 (25)	06:08	19	18:51 (23)	05:26	05:10
36	16:45	24	16:06 (28)	17:28	23	17:02 (24)	19:06	19	18:51 (23)	05:26	05:10
37	07:29	15:43 (28)	06:52	16:39 (24)	07:03	08:16 (25)	06:07	19	18:51 (23)	05:25	05:10
38	16:46	23	16:06 (28)	17:30	22	17:01 (24)	19:07	19	18:51 (23)	05:25	05:10
39	07:28	15:44 (28)	06:51	16:40 (24)	07:01	08:16 (25)	06:05	19	18:51 (23)	05:24	05:10
40	16:48	21	16:05 (28)	17:31	21	17:01 (24)	19:08	19	18:51 (23)	05:24	05:10
41	07:28	15:45 (28)	06:49	16:41 (24)	07:00	08:16 (25)	06:03	19	18:51 (23)	05:23	05:10
42	16:49	21	16:06 (28)	17:32	18	16:59 (24)	19:10	19	18:51 (23)	05:23	05:10
43	07:27	15:46 (28)	06:48	16:43 (24)	06:58	08:16 (25)	06:02	19	18:51 (23)	05:22	05:11
44	16:50	19	16:05 (28)	17:34	16	16:59 (24)	19:11	19	18:51 (23)	05:22	05:11
45	07:26	15:48 (28)	06:46	07:08 (25)	06:56	08:16 (25)	06:00	19	18:51 (23)	05:21	05:11
46	16:52	16	16:04 (28)	17:35	23	16:56 (24)	19:12	19	18:51 (23)	05:21	05:11
47	07:25	15:49 (28)	06:44	07:05 (25)	06:54	08:16 (25)	05:58	19	18:51 (23)	05:20	05:11
48	16:53	14	16:03 (28)	17:37	19	16:51 (24)	19:13	19	18:51 (23)	05:20	05:11
49	07:24	15:52 (28)	06:43	07:04 (25)	06:52	18:50 (23)	05:57	19	18:51 (23)	05:19	05:11
50	16:54	9	16:01 (28)	17:38	21	07:25 (25)	19:15	2	18:52 (23)	05:19	05:11
51	07:23		06:41	07:02 (25)	06:50	18:46 (23)	05:55	19	18:52 (23)	05:18	05:11
52	16:56		17:39	07:26 (25)	19:16	18:53 (23)	05:55	7	18:53 (23)	05:18	05:11
53	07:22		06:39	07:00 (25)	06:48	18:43 (23)	05:54	19	18:53 (23)	05:18	05:11
54	16:57		17:41	07:26 (25)	19:17	18:54 (23)	05:56	11	18:54 (23)	05:18	05:11
55	07:21		06:38	06:59 (25)	06:46	18:43 (23)	05:52	19	18:54 (23)	05:17	05:11
56	16:58		17:42	07:27 (25)	19:19	18:56 (23)	05:57	13	18:56 (23)	05:17	05:11
57	07:20			06:45		18:41 (23)	05:51	19	18:56 (23)	05:16	05:11
58	17:00			19:20	16	18:57 (23)	05:59	19	18:57 (23)	05:16	05:11
59	07:19		07:44 (32)	06:43		18:40 (23)	05:49	19	18:57 (23)	05:15	05:11
60	17:01	6	07:50 (32)	19:21	19	18:59 (23)	06:00	19	18:59 (23)	05:15	05:11
61	07:18		07:40 (32)	06:41		18:39 (23)		19	18:59 (23)	05:14	05:11
62	17:03	12	07:52 (32)	19:22	21	19:00 (23)		19	19:00 (23)	05:14	05:11
63	Potential sun hours	286		291		369		404		459	466
64	Total, worst case		596		746		420		171		998
65	Sun reduction		0.41		0.48		0.51		0.49		0.59
66	Oper. time red.		1.00		1.00		1.00		1.00		1.00
67	Wind dir. red.		0.78		0.66		0.65		0.71		0.79
68	Total reduction		0.32		0.32		0.33		0.35		0.47
69	Total, real		191		236		139		59		466

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)		Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 209 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (798)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:40 (12)	05:42	06:18		06:54		07:42 (25)	06:34	07:05 (32)	07:14
2	05:15	05:40 (12)	05:43	06:19		06:55		07:39 (25)	06:35	07:04 (32)	07:15
3	05:15	05:41 (12)	05:44	06:20		06:56	18:42 (23)	07:38 (25)	06:37	07:05 (32)	07:16
4	05:16	05:42 (12)	05:45	06:22		06:58	18:39 (23)	07:36 (25)	06:38	07:05 (32)	07:17
5	05:16	05:43 (12)	05:46	06:23		06:59	18:38 (23)	07:35 (25)	06:39	07:06 (32)	07:18
6	05:17	05:44 (12)	05:47	06:24		07:00	18:37 (23)	07:34 (25)	06:40	07:06 (32)	07:19
7	05:18	05:45 (12)	05:48	06:25		07:01	18:36 (23)	07:33 (25)	06:41	07:07 (32)	07:20
8	05:18	05:46 (12)	05:49	06:26		07:02	18:35 (23)	07:32 (25)	06:42	07:07 (32)	07:21
9	05:19	05:47 (12)	05:50	06:27		07:03	18:34 (23)	07:31 (25)	06:43	07:08 (32)	07:22
10	05:20	05:48 (12)	05:51	06:28		07:04	18:33 (23)	07:30 (25)	06:44	07:09 (32)	07:23
11	05:21	05:49 (12)	05:52	06:29		07:05	18:32 (23)	07:29 (25)	06:45	07:10 (32)	07:24
12	05:22	05:50 (12)	05:53	06:30		07:06	18:31 (23)	07:28 (25)	06:46	07:11 (32)	07:25
13	05:22	05:51 (12)	05:54	06:31		07:07	18:30 (23)	07:27 (25)	06:47	07:12 (32)	07:26
14	05:23	05:52 (12)	05:55	06:32		07:08	18:29 (23)	07:26 (25)	06:48	07:13 (32)	07:27
15	05:24	05:53 (12)	05:56	06:33		07:09	18:28 (23)	07:25 (25)	06:49	07:14 (32)	07:28
16	05:25	05:54 (12)	05:57	06:34		07:10	18:27 (23)	07:24 (25)	06:50	07:15 (32)	07:29
17	05:26	05:55 (12)	05:58	06:35		07:11	18:26 (23)	07:23 (25)	06:51	07:16 (32)	07:30
18	05:27	05:56 (12)	05:59	06:36		07:12	18:25 (23)	07:22 (25)	06:52	07:17 (32)	07:31
19	05:28	05:57 (12)	06:00	06:37		07:13	18:24 (23)	07:21 (25)	06:53	07:18 (32)	07:32
20	05:29	05:58 (12)	06:01	06:38		07:14	18:23 (23)	07:20 (25)	06:54	07:19 (32)	07:33
21	05:30	05:59 (12)	06:02	06:39		07:15	18:22 (23)	07:19 (25)	06:55	07:20 (32)	07:34
22	05:31	06:00 (12)	06:03	06:40		07:16	18:21 (23)	07:18 (25)	06:56	07:21 (32)	07:35
23	05:32	06:01 (12)	06:04	06:41		07:17	18:20 (23)	07:17 (25)	06:57	07:22 (32)	07:36
24	05:33	06:02 (12)	06:05	06:42		07:18	18:19 (23)	07:16 (25)	06:58	07:23 (32)	07:37
25	05:34	06:03 (12)	06:06	06:43		07:19	18:18 (23)	07:15 (25)	06:59	07:24 (32)	07:38
26	05:35	06:04 (12)	06:07	06:44		07:20	18:17 (23)	07:14 (25)	07:00	07:25 (32)	07:39
27	05:36	06:05 (12)	06:08	06:45		07:21	18:16 (23)	07:13 (25)	07:01	07:26 (32)	07:40
28	05:37	06:06 (12)	06:09	06:46		07:22	18:15 (23)	07:12 (25)	07:02	07:27 (32)	07:41
29	05:38	06:07 (12)	06:10	06:47		07:23	18:14 (23)	07:11 (25)	07:03	07:28 (32)	07:42
30	05:39	06:08 (12)	06:11	06:48		07:24	18:13 (23)	07:10 (25)	07:04	07:29 (32)	07:43
31	05:40	06:09 (12)	06:12	06:49		07:25	18:12 (23)	07:09 (25)	07:05	07:30 (32)	07:44
Potential sun hours	472	436	376	273	850	556	671	288	275		
Total, worst case											
Sun reduction	0.64		0.54	0.47	0.31	0.33					
Oper. time red.	1.00		1.00	1.00	1.00	1.00					
Wind dir. red.	0.79		0.71	0.67	0.70	0.79					
Total reduction	0.51		0.38	0.31	0.22	0.26					
Total, real	133		104	267	120	175					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 210 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (799)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:35 (28)	07:17	07:39 (32)	06:36	06:59 (25)	06:39	18:38 (23)	05:48	05:14	
	16:26	22	15:57 (28)	17:04	07:55 (32)	17:43	30	07:29 (25)	19:24	19:01 (23)	20:00
2	07:35	15:35 (28)	07:16	07:38 (32)	06:34	06:59 (25)	06:37	18:38 (23)	05:46	05:14	
	16:27	23	15:58 (28)	17:06	07:57 (32)	17:45	29	07:28 (25)	19:25	19:02 (23)	20:01
3	07:35	15:36 (28)	07:15	07:38 (32)	06:32	06:58 (25)	06:35	18:38 (23)	05:45	05:13	05:46 (12)
	16:28	23	15:59 (28)	17:07	07:58 (32)	17:46	30	07:28 (25)	19:26	19:01 (23)	20:02
4	07:35	15:36 (28)	07:14	07:36 (32)	06:31	06:58 (25)	06:33	18:39 (23)	05:43	05:13	05:43 (12)
	16:29	24	16:00 (28)	17:08	07:58 (32)	17:47	30	07:28 (25)	19:27	19:01 (23)	20:04
5	07:35	15:37 (28)	07:12	07:36 (32)	06:29	06:57 (25)	06:32	18:39 (23)	05:42	05:12	05:41 (12)
	16:30	24	16:01 (28)	17:10	07:59 (32)	17:49	30	07:27 (25)	19:29	19:00 (23)	20:05
6	07:35	15:37 (28)	07:11	07:36 (32)	06:27	06:58 (25)	06:30	18:40 (23)	05:40	05:12	05:40 (12)
	16:31	26	16:03 (28)	17:11	08:00 (32)	17:50	30	07:28 (25)	19:30	18:59 (23)	20:06
7	07:34	15:38 (28)	07:10	07:35 (32)	06:25	06:58 (25)	06:28	18:41 (23)	05:39	05:11	05:39 (12)
	16:32	26	16:04 (28)	17:13	08:00 (32)	17:51	29	07:27 (25)	19:31	18:57 (23)	20:07
8	07:34	15:37 (28)	07:09	07:36 (32)	07:24	07:58 (25)	06:26	18:42 (23)	05:38	05:11	05:38 (12)
	16:33	26	16:03 (28)	17:14	16:49 (24)	18:53	28	08:26 (25)	19:32	18:54 (23)	20:09
9	07:34	15:38 (28)	07:07	07:36 (32)	07:22	07:59 (25)	06:24	18:45 (23)	05:36	05:11	05:37 (12)
	16:34	26	16:04 (28)	17:16	16:51 (24)	18:54	25	08:24 (25)	19:34	18:50 (23)	20:10
10	07:34	15:39 (28)	07:06	07:36 (32)	07:20	08:00 (25)	06:23	05:35	05:11	05:37 (12)	
	16:35	26	16:05 (28)	17:17	16:52 (24)	18:55	23	08:23 (25)	19:35	18:51 (23)	20:11
11	07:33	15:39 (28)	07:04	07:37 (32)	07:18	08:01 (25)	06:21	05:34	05:10	05:36 (12)	
	16:36	26	16:05 (28)	17:18	16:54 (24)	18:57	20	08:21 (25)	19:36	18:52 (23)	20:12
12	07:33	15:39 (28)	07:03	07:37 (32)	07:16	08:03 (25)	06:19	05:33	05:10	05:35 (12)	
	16:37	27	16:06 (28)	17:20	16:55 (24)	18:58	16	08:19 (25)	19:37	18:53 (23)	20:13
13	07:33	15:39 (28)	07:02	07:38 (32)	07:14	08:06 (25)	06:17	05:31	05:10	05:35 (12)	
	16:39	27	16:06 (28)	17:21	16:57 (24)	18:59	10	08:16 (25)	19:39	18:54 (23)	20:15
14	07:32	15:40 (28)	07:00	07:38 (32)	07:13	06:15		05:30	05:10	05:35 (12)	
	16:40	26	16:06 (28)	17:23	16:58 (24)	19:01		19:40	20:16	20:44	37
15	07:32	15:41 (28)	06:59	07:40 (32)	07:11	06:14		05:29	05:10	05:35 (12)	
	16:41	25	16:06 (28)	17:24	17:00 (24)	19:02		19:41	20:17	20:44	38
16	07:31	15:41 (28)	06:57	07:41 (32)	07:09	06:12		05:28	05:10	05:35 (12)	
	16:42	25	16:06 (28)	17:25	17:01 (24)	19:03		19:42	20:18	20:45	38
17	07:30	15:42 (28)	06:56	07:45 (32)	07:07	06:10		05:27	05:10	05:34 (12)	
	16:44	25	16:07 (28)	17:27	17:03 (24)	19:05		19:44	20:19	20:45	40
18	07:30	15:43 (28)	06:54	16:39 (24)	07:05	06:08		05:26	05:10	05:34 (12)	
	16:45	23	16:06 (28)	17:28	17:02 (24)	19:06		19:45	20:20	20:45	40
19	07:29	15:43 (28)	06:52	16:39 (24)	07:03	06:07		05:25	05:10	05:35 (12)	
	16:46	23	16:06 (28)	17:30	17:01 (24)	19:07		19:46	20:21	20:46	40
20	07:28	15:44 (28)	06:51	16:40 (24)	07:01	06:05		05:24	05:10	05:35 (12)	
	16:48	22	16:06 (28)	17:31	17:01 (24)	19:08		19:47	20:22	20:46	40
21	07:28	15:46 (28)	06:49	16:41 (24)	07:00	06:03		05:23	05:10	05:35 (12)	
	16:49	20	16:06 (28)	17:32	16:59 (24)	19:10		19:49	20:24	20:46	40
22	07:27	15:47 (28)	06:48	07:12 (25)	06:58	06:02		05:22	05:11	05:35 (12)	
	16:50	18	16:05 (28)	17:34	16:59 (24)	19:11		19:50	20:25	20:46	40
23	07:26	15:48 (28)	06:46	07:08 (25)	06:56	06:00		05:21	05:11	05:35 (12)	
	16:52	17	16:05 (28)	17:35	16:56 (24)	19:12		19:51	20:26	20:47	40
24	07:25	15:50 (28)	06:44	07:05 (25)	06:54	05:58		05:20	05:11	05:36 (12)	
	16:53	13	16:03 (28)	17:37	07:23 (25)	19:13		19:52	20:27	20:47	40
25	07:24	15:52 (28)	06:43	07:03 (25)	06:52	18:49 (23)	05:57	05:19	05:11	05:36 (12)	
	16:54	10	16:02 (28)	17:38	07:25 (25)	19:15	3	18:52 (23)	19:54	20:28	40
26	07:23		06:41	07:02 (25)	06:50	18:45 (23)	05:55	05:18	05:12	05:36 (12)	
	16:56		17:39	07:26 (25)	19:16	18:53 (23)	19:55	20:29	20:47	39	05:15 (12)
27	07:22		06:39	07:01 (25)	06:48	18:43 (23)	05:54	05:18	05:12	05:38 (12)	
	16:57		17:41	07:27 (25)	19:17	18:54 (23)	19:56	20:30	20:47	38	05:16 (12)
28	07:21		06:38	06:59 (25)	06:46	18:42 (23)	05:52	05:17	05:13	05:38 (12)	
	16:58		17:42	07:27 (25)	19:19	18:56 (23)	19:57	20:31	20:47	37	05:15 (12)
29	07:20			06:45	18:41 (23)	05:51		05:16	05:13	05:39 (12)	
	17:00			19:20	18:57 (23)	19:59		20:32	20:47	37	05:16 (12)
30	07:19		07:43 (32)	06:43	18:40 (23)	05:49		05:15	05:13	05:39 (12)	
	17:01	9	07:52 (32)	19:21	18:59 (23)	20:00		20:33	20:47	36	05:15 (12)
31	07:18		07:40 (32)	06:41	18:39 (23)			05:15			
	17:03	14	07:54 (32)	19:22	19:00 (23)			20:34			
Potential sun hours	286		291		369		404		459		466
Total, worst case		596		747		422		165			956
Sun reduction		0.41		0.48		0.51		0.49			0.59
Oper. time red.		1.00		1.00		1.00		1.00			1.00
Wind dir. red.		0.78		0.66		0.65		0.71			0.79
Total reduction		0.32		0.32		0.33		0.35			0.47
Total, real		191		236		139		57			446

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)		Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 210 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (799)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:40 (12)	05:42	06:18		06:54		07:43 (25)	06:34	07:05 (32)	07:14
2	05:15	05:41 (12)	05:43	06:19		06:55		07:40 (25)	06:35	07:05 (32)	07:15
3	05:15	05:42 (12)	05:44	06:20	18:43 (23)	06:56		07:39 (25)	06:37	07:05 (32)	07:16
4	05:16	05:43 (12)	05:45	06:22	18:39 (23)	06:58		07:37 (25)	06:38	07:05 (32)	07:17
5	05:16	05:44 (12)	05:46	06:23	18:38 (23)	06:59		07:36 (25)	06:39	07:06 (32)	07:18
6	05:17	05:45 (12)	05:47	06:24	18:36 (23)	07:00		07:34 (25)	06:41	07:06 (32)	07:19
7	05:18	05:47 (12)	05:48	06:25	18:34 (23)	07:01		07:34 (25)	06:42	07:07 (32)	07:20
8	05:18	05:49 (12)	05:50	06:26	18:33 (23)	07:03		07:33 (25)	06:44	07:07 (32)	07:21
9	05:19	05:52 (12)	05:51	06:27	18:32 (23)	07:04		07:32 (25)	06:45	07:09 (32)	07:22
10	05:20	05:56 (12)	05:52	06:29	18:31 (23)	07:05		07:32 (25)	06:46	07:10 (32)	07:23
11	05:21	06:00 (12)	06:03	06:30	18:31 (23)	07:06		07:32 (25)	06:48	07:12 (32)	07:24
12	05:22	06:01 (12)	06:04	06:31	18:31 (23)	07:08		07:32 (25)	06:49	07:14 (32)	07:25
13	05:22	06:02 (12)	06:05	06:32	18:31 (23)	07:09		07:32 (25)	06:50	07:16 (32)	07:26
14	05:23	06:03 (12)	06:06	06:33	18:31 (23)	07:10		07:33 (25)	06:52	07:18 (32)	07:27
15	05:24	06:04 (12)	06:07	06:34	18:31 (23)	07:11		07:33 (25)	06:53	07:20 (32)	07:28
16	05:25	06:05 (12)	06:08	06:35	18:31 (23)	07:12		07:34 (25)	06:55	07:22 (32)	07:29
17	05:26	06:06 (12)	06:09	06:36	18:32 (23)	07:13		07:34 (25)	06:56	07:24 (32)	07:30
18	05:27	06:07 (12)	06:10	06:37	18:33 (23)	07:14		07:35 (25)	06:57	07:26 (32)	07:31
19	05:28	06:08 (12)	06:11	06:38	18:34 (23)	07:15		07:36 (25)	06:58	07:28 (32)	07:32
20	05:29	06:09 (12)	06:12	06:39	18:35 (23)	07:16		07:37 (25)	06:59	07:30 (32)	07:33
21	05:30	06:10 (12)	06:13	06:40	18:36 (23)	07:17		07:38 (25)	07:00	07:32 (32)	07:34
22	05:31	06:11 (12)	06:14	06:41	18:37 (23)	07:18		07:39 (25)	07:01	07:34 (32)	07:35
23	05:32	06:12 (12)	06:15	06:42	18:38 (23)	07:19		07:40 (25)	07:02	07:36 (32)	07:36
24	05:33	06:13 (12)	06:16	06:43	18:39 (23)	07:20		07:41 (25)	07:03	07:38 (32)	07:37
25	05:34	06:14 (12)	06:17	06:44	18:40 (23)	07:21		07:42 (25)	07:04	07:40 (32)	07:38
26	05:35	06:15 (12)	06:18	06:45	18:41 (23)	07:22		07:43 (25)	07:05	07:42 (32)	07:39
27	05:36	06:16 (12)	06:19	06:46	18:42 (23)	07:23		07:44 (25)	07:06	07:44 (32)	07:40
28	05:37	06:17 (12)	06:20	06:47	18:43 (23)	07:24		07:45 (25)	07:07	07:46 (32)	07:41
29	05:38	06:18 (12)	06:21	06:48	18:44 (23)	07:25		07:46 (25)	07:08	07:48 (32)	07:42
30	05:39	06:19 (12)	06:22	06:49	18:45 (23)	07:26		07:47 (25)	07:09	07:50 (32)	07:43
31	05:40	06:20 (12)	06:23	06:50	18:46 (23)	07:27		07:48 (25)	07:10	07:52 (32)	07:44
Potential sun hours	472		436	376		341		288		275	
Total, worst case		241		267		851		562		660	
Sun reduction		0.64		0.54		0.47		0.31		0.33	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.79		0.71		0.67		0.70		0.79	
Total reduction		0.51		0.38		0.31		0.22		0.26	
Total, real	122			102		267		121		172	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 211 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (800)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:29 (28)	07:17	07:39 (32)	06:36	07:00 (25)	06:39	18:36 (23)	05:48	05:14	05:38 (12)
2	07:35	15:29 (28)	07:16	07:38 (32)	06:34	07:00 (25)	06:37	18:36 (23)	05:46	05:14	05:37 (12)
3	07:35	15:30 (28)	07:15	07:37 (32)	06:32	06:59 (25)	06:35	18:36 (23)	05:45	05:13	05:37 (12)
4	07:35	15:30 (28)	07:14	07:36 (32)	06:31	06:59 (25)	06:33	18:37 (23)	05:43	05:13	05:36 (12)
5	07:35	15:31 (28)	07:12	07:36 (32)	06:29	06:59 (25)	06:32	18:38 (23)	05:42	05:12	05:36 (12)
6	07:35	15:32 (28)	07:11	07:36 (32)	06:27	07:00 (25)	06:30	18:38 (23)	05:40	05:12	05:36 (12)
7	07:34	15:32 (28)	07:10	07:35 (32)	06:25	07:00 (25)	06:28	18:40 (23)	05:39	05:11	05:35 (12)
8	07:34	15:32 (28)	07:09	07:36 (32)	07:24	08:00 (25)	06:26	18:43 (23)	05:38	05:11	05:35 (12)
9	07:34	15:33 (28)	07:07	07:36 (32)	07:22	08:01 (25)	06:24	18:49 (23)	05:36	05:11	05:35 (12)
10	07:34	15:34 (28)	07:06	07:36 (32)	07:20	08:02 (25)	06:23	18:55 (23)	05:35	05:11	05:35 (12)
11	07:33	15:34 (28)	07:04	07:37 (32)	07:18	08:04 (25)	06:21	18:55 (23)	05:34	05:10	05:34 (12)
12	07:33	15:35 (28)	07:03	07:37 (32)	07:16	08:09 (25)	06:19	18:57 (23)	05:33	05:10	05:34 (12)
13	07:33	15:35 (28)	07:02	07:38 (32)	07:14	08:15 (25)	06:17	18:59 (23)	05:32	05:10	05:34 (12)
14	07:32	15:36 (28)	07:00	07:39 (32)	07:13	08:21 (25)	06:15	19:00 (23)	05:31	05:10	05:34 (12)
15	07:32	15:37 (28)	06:59	07:41 (32)	07:11	08:27 (25)	06:14	19:01 (23)	05:30	05:10	05:34 (12)
16	07:31	15:37 (28)	06:57	07:42 (32)	07:09	08:33 (25)	06:12	19:02 (23)	05:29	05:10	05:34 (12)
17	07:30	15:39 (28)	06:56	07:43 (32)	07:07	08:39 (25)	06:10	19:03 (23)	05:28	05:10	05:34 (12)
18	07:30	15:40 (28)	06:54	07:44 (32)	07:05	08:45 (25)	06:08	19:04 (23)	05:27	05:10	05:34 (12)
19	07:29	15:41 (28)	06:52	07:45 (32)	07:03	08:51 (25)	06:07	19:05 (23)	05:26	05:10	05:34 (12)
20	07:28	15:42 (28)	06:51	07:46 (32)	07:01	08:57 (25)	06:05	19:06 (23)	05:25	05:10	05:34 (12)
21	07:28	15:43 (28)	06:49	07:47 (32)	06:59	09:03 (25)	06:04	19:07 (23)	05:24	05:10	05:34 (12)
22	07:27	15:44 (28)	06:48	07:48 (32)	06:58	09:09 (25)	06:03	19:08 (23)	05:23	05:10	05:34 (12)
23	07:26	15:45 (28)	06:47	07:49 (32)	06:57	09:15 (25)	06:02	19:09 (23)	05:22	05:10	05:34 (12)
24	07:25	15:46 (28)	06:46	07:50 (32)	06:56	09:21 (25)	06:01	19:10 (23)	05:21	05:10	05:34 (12)
25	07:24	15:47 (28)	06:45	07:51 (32)	06:55	09:27 (25)	06:00	19:11 (23)	05:20	05:10	05:34 (12)
26	07:23	15:48 (28)	06:44	07:52 (32)	06:54	09:33 (25)	05:59	19:12 (23)	05:19	05:10	05:34 (12)
27	07:22	15:49 (28)	06:43	07:53 (32)	06:53	09:39 (25)	05:58	19:13 (23)	05:18	05:10	05:34 (12)
28	07:21	15:50 (28)	06:42	07:54 (32)	06:52	09:45 (25)	05:57	19:14 (23)	05:17	05:10	05:34 (12)
29	07:20	15:51 (28)	06:41	07:55 (32)	06:51	09:51 (25)	05:56	19:15 (23)	05:16	05:10	05:34 (12)
30	07:19	15:52 (28)	06:40	07:56 (32)	06:50	09:57 (25)	05:55	19:16 (23)	05:15	05:10	05:34 (12)
31	07:18	15:53 (28)	06:39	07:57 (32)	06:49	10:03 (25)	05:54	19:17 (23)	05:14	05:10	05:34 (12)
Potential sun hours	286	291	369	404	459	466	1763				
Total, worst case	536	766	407	148	434	1763					
Sun reduction	0.41	0.48	0.51	0.49	0.56	0.59					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.78	0.66	0.65	0.71	0.79	0.79					
Total reduction	0.32	0.32	0.33	0.35	0.44	0.47					
Total, real	170	243	135	51	192	820					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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Licensed user:

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 211 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (800)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:39 (12)	05:42	06:18		06:54		06:34		07:06 (32)	07:14
2	05:15	05:39 (12)	05:43	06:19		06:55		06:35		07:05 (32)	07:15
3	05:15	05:40 (12)	05:44	06:20		06:56		06:37		07:05 (32)	07:16
4	05:16	05:40 (12)	05:45	06:22	18:40 (23)	06:58		06:38		07:05 (32)	07:17
5	05:16	05:41 (12)	05:46	06:23	18:37 (23)	06:59		06:39		07:06 (32)	07:18
6	05:17	05:42 (12)	05:47	06:24	18:35 (23)	07:00		06:41		07:06 (32)	07:19
7	05:18	05:42 (12)	05:48	06:25	18:33 (23)	07:01		06:42		07:07 (32)	07:20
8	05:18	05:43 (12)	05:50	06:26	18:31 (23)	07:03		06:44		07:07 (32)	07:21
9	05:19	05:44 (12)	05:51	06:27	18:30 (23)	07:04		06:45		07:09 (32)	07:22
10	05:20	05:44 (12)	05:52	06:29	18:29 (23)	07:05		06:46		07:10 (32)	07:23
11	05:21	05:45 (12)	05:53	06:30	18:28 (23)	07:06		06:48		07:12 (32)	07:24
12	05:22	05:46 (12)	05:54	06:31	18:27 (23)	07:07		06:49		07:13 (32)	07:25
13	05:22	05:47 (12)	05:55	06:32	18:26 (23)	07:09		06:50		07:14 (32)	07:26
14	05:23	05:48 (12)	05:57	06:33	18:25 (23)	07:10		06:52		07:16 (32)	07:27
15	05:24	05:49 (12)	05:58	06:35	18:24 (23)	07:11		06:53		07:17 (32)	07:28
16	05:25	05:49 (12)	05:59	06:36	18:23 (23)	07:13		06:55		07:18 (32)	07:29
17	05:26	05:50 (12)	06:00	06:37	18:22 (23)	07:14		06:56		07:19 (32)	07:30
18	05:27	05:51 (12)	06:01	06:38	18:21 (23)	07:15		06:57		07:20 (32)	07:31
19	05:28	05:52 (12)	06:03	06:39	18:20 (23)	07:17		06:59		07:21 (32)	07:32
20	05:29	05:54 (12)	06:04	06:41	18:19 (23)	07:18		07:00		07:22 (32)	07:33
21	05:30	05:56 (12)	06:05	06:42	18:18 (23)	07:19		07:01		07:23 (32)	07:34
22	05:31	05:58 (12)	06:06	06:43	18:17 (23)	07:21		07:02		07:24 (32)	07:35
23	05:32	06:01 (12)	06:07	06:44	18:16 (23)	07:22		07:04		07:25 (32)	07:36
24	05:33	06:02 (12)	06:08	06:45	18:15 (23)	07:23		07:05		07:26 (32)	07:37
25	05:34	06:04 (12)	06:10	06:47	18:14 (23)	07:25		07:06		07:27 (32)	07:38
26	05:35	06:06 (12)	06:11	06:48	18:13 (23)	07:26		07:08		07:28 (32)	07:39
27	05:36	06:08 (12)	06:12	06:49	18:12 (23)	07:27		07:09		07:29 (32)	07:40
28	05:37	06:10 (12)	06:13	06:50	18:11 (23)	07:29		07:10		07:30 (32)	07:41
29	05:38	06:12 (12)	06:14	06:51	18:10 (23)	07:30		07:11		07:31 (32)	07:42
30	05:39	06:14 (12)	06:15	06:53	18:09 (23)	07:31		07:12		07:32 (32)	07:43
31	05:40	06:16 (12)	06:17	06:54	18:08 (23)	07:33		07:14		07:33 (32)	07:45
Potential sun hours	472	436	376	341	288	275					
Total, worst case	1072		276	790	515	807					
Sun reduction	0.64		0.54	0.47	0.31	0.33					
Oper. time red.	1.00		1.00	1.00	1.00	1.00					
Wind dir. red.	0.79		0.71	0.67	0.69	0.79					
Total reduction	0.50		0.38	0.31	0.21	0.26					
Total, real	541		105	247	109	209					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 79

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 212 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (801)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June		
1	07:35	15:26 (28)	07:17	07:39 (32)	06:36	06:59 (25)	06:39	18:36 (23)	05:48		05:14	05:38 (12)	
2	16:26	15:54 (28)	17:04	07:51 (32)	17:43	07:27 (25)	19:24	19:01 (23)	20:00		20:34	06:32 (12)	
3	07:35	15:27 (28)	07:16	07:38 (32)	06:34	06:58 (25)	06:37	18:36 (23)	05:46		05:14	05:37 (12)	
4	16:27	15:54 (28)	17:06	07:53 (32)	17:45	07:27 (25)	19:25	19:00 (23)	20:01		20:35	06:32 (12)	
5	07:35	15:27 (28)	07:15	07:37 (32)	06:32	06:57 (25)	06:35	18:36 (23)	05:45		05:13	05:37 (12)	
6	16:28	15:55 (28)	17:07	07:55 (32)	17:46	07:26 (25)	19:26	18:59 (23)	20:02		20:36	06:33 (12)	
7	07:35	15:28 (28)	07:14	07:35 (32)	06:31	06:57 (25)	06:33	18:37 (23)	05:43		05:13	05:36 (12)	
8	16:29	15:55 (28)	17:08	07:55 (32)	17:47	07:26 (25)	19:27	18:59 (23)	20:04		20:37	06:33 (12)	
9	07:35	15:29 (28)	07:12	07:35 (32)	06:29	06:57 (25)	06:32	18:37 (23)	05:42		05:12	05:36 (12)	
10	16:30	15:56 (28)	17:10	07:56 (24)	17:49	07:25 (25)	19:29	18:58 (23)	20:05		20:38	06:34 (12)	
11	07:35	15:29 (28)	07:11	07:34 (32)	06:27	06:58 (25)	06:30	18:38 (23)	05:40		05:12	05:36 (12)	
12	16:31	15:56 (28)	17:11	07:56 (24)	17:50	07:25 (25)	19:30	18:56 (23)	20:06		20:38	06:35 (12)	
13	07:34	15:30 (28)	07:10	07:34 (32)	06:25	06:58 (25)	06:28	18:39 (23)	05:39		05:11	05:35 (12)	
14	16:32	15:57 (28)	17:13	07:57 (24)	17:51	07:24 (25)	19:31	18:54 (23)	20:07		20:39	06:34 (12)	
15	07:34	15:30 (28)	07:09	07:34 (32)	07:24	07:58 (25)	06:26	18:41 (23)	05:38		05:11	05:35 (12)	
16	16:33	15:57 (28)	17:14	07:57 (24)	18:53	08:23 (25)	19:32	18:52 (23)	20:09		20:40	06:35 (12)	
17	07:34	15:31 (28)	07:07	07:34 (32)	07:22	07:59 (25)	06:24		05:36		05:11	05:35 (12)	
18	16:34	15:57 (28)	17:16	07:57 (24)	18:54	08:22 (25)	19:34		20:10		20:41	06:36 (12)	
19	07:34	15:32 (28)	07:06	07:34 (32)	07:20	08:00 (25)	06:23		05:35		05:11	05:35 (12)	
20	16:35	15:58 (28)	17:17	07:58 (24)	18:55	08:20 (25)	19:35		20:11		20:41	06:36 (12)	
21	07:33	15:32 (28)	07:04	07:34 (32)	07:18	08:01 (25)	06:21		05:34		05:10	05:34 (12)	
22	16:36	15:57 (28)	17:18	07:59 (24)	18:57	08:17 (25)	19:36		20:12		20:42	06:36 (12)	
23	07:33	15:33 (28)	07:03	07:34 (32)	07:16	08:05 (25)	06:19		05:33		05:10	05:34 (12)	
24	16:37	15:58 (28)	17:20	07:59 (24)	18:58	08:15 (25)	19:37		20:13		20:42	06:36 (12)	
25	07:33	15:33 (28)	07:02	07:36 (32)	07:14		06:17		05:31		05:10	05:34 (12)	
26	16:39	15:58 (28)	17:21	07:58 (24)	18:59		19:39		20:15		20:43	06:37 (12)	
27	07:32	15:35 (28)	07:00	07:36 (32)	07:13		06:15		05:30		05:10	05:34 (12)	
28	16:40	15:58 (28)	17:23	07:58 (24)	19:01		19:40		20:16		20:44	06:37 (12)	
29	07:32	15:35 (28)	06:59	07:38 (32)	07:11		06:14		05:29		05:10	05:34 (12)	
30	16:41	15:58 (28)	17:24	07:58 (24)	19:02		19:41		20:17		20:44	06:37 (12)	
31	07:31	15:36 (28)	06:57	07:39 (32)	07:09		06:12		05:28	05:56 (12)	05:10	05:34 (12)	
32	16:42	15:57 (28)	17:25	07:57 (24)	19:03		19:42		20:18	12	06:08 (12)	20:45	06:38 (12)
33	07:30	15:37 (28)	06:56	07:42 (32)	07:07		06:10		05:27	20	05:52 (12)	05:10	05:34 (12)
34	16:44	15:57 (28)	17:27	07:57 (24)	19:05		19:44		20:19	20	06:12 (12)	20:45	06:38 (12)
35	07:30	15:38 (28)	06:54	07:43 (24)	07:05		06:08		05:26		05:49 (12)	05:10	05:34 (12)
36	16:45	15:56 (28)	17:28	07:56 (24)	19:06		19:45		20:20	26	06:15 (12)	20:45	06:38 (12)
37	07:29	15:40 (28)	06:52	07:44 (24)	07:03		06:07		05:25		05:47 (12)	05:10	05:35 (12)
38	16:46	15:55 (28)	17:30	07:55 (24)	19:07		19:46		20:21	30	06:17 (12)	20:46	06:39 (12)
39	07:28	15:41 (28)	06:51	07:45 (24)	07:01		06:05		05:24		05:46 (12)	05:10	05:35 (12)
40	16:48	15:54 (28)	17:31	07:54 (24)	19:08		19:47		20:22	33	06:19 (12)	20:46	06:39 (12)
41	07:28	15:44 (28)	06:49	07:46 (24)	07:00		06:03		05:23		05:45 (12)	05:10	05:35 (12)
42	16:49	9	15:53 (28)	07:53 (24)	19:10		19:49		20:24	36	06:21 (12)	20:46	06:39 (12)
43	07:27		06:48	07:11 (25)	06:58		06:02		05:22		05:44 (12)	05:11	05:35 (12)
44	16:50		17:34	5	07:16 (25)	19:11	19:50		20:25	38	06:22 (12)	20:46	06:39 (12)
45	07:26		06:46		07:07 (25)	06:56	06:00		05:21		05:44 (12)	05:11	05:35 (12)
46	16:52		17:35		07:20 (25)	19:12	19:51		20:26	40	06:24 (12)	20:47	06:39 (12)
47	07:25		06:44		07:05 (25)	06:54	18:47 (23)	05:58	05:20	42	05:43 (12)	05:11	05:36 (12)
48	16:53		17:37		07:22 (25)	19:13	18:51 (23)	19:52	20:27	44	06:25 (12)	20:47	06:39 (12)
49	07:24		06:43		07:04 (25)	06:52	18:44 (23)	05:57	05:19	46	05:42 (12)	05:11	05:36 (12)
50	16:54		17:38		07:24 (25)	19:15	18:52 (23)	19:54	20:28	48	06:26 (12)	20:47	06:39 (12)
51	07:23		06:41		07:02 (25)	06:50	18:41 (23)	05:55	05:18	50	05:41 (12)	05:12	05:36 (12)
52	16:56		17:39		07:25 (25)	19:16	18:53 (23)	19:55	20:29	52	06:26 (12)	20:47	06:39 (12)
53	07:22		06:39		07:00 (25)	06:48	18:39 (23)	05:54	05:18	54	05:41 (12)	05:12	05:37 (12)
54	16:57		17:41		07:25 (25)	19:17	18:54 (23)	19:56	20:30	56	06:28 (12)	20:47	06:39 (12)
55	07:21		06:38		06:59 (25)	06:46	18:39 (23)	05:52	05:17	58	05:40 (12)	05:13	05:37 (12)
56	16:58		17:42		07:26 (25)	19:19	18:56 (23)	19:57	20:31	60	06:28 (12)	20:47	06:39 (12)
57	07:20				06:45		18:38 (23)	05:51	05:16	62	05:39 (12)	05:13	05:38 (12)
58	17:00				06:43		18:57 (23)	19:59	20:32	64	06:29 (12)	20:47	06:39 (12)
59	07:19				06:43		18:37 (23)	05:49	05:15	66	05:39 (12)	05:13	05:38 (12)
60	17:01				06:41		18:59 (23)	20:00	20:33	68	06:30 (12)	20:47	06:39 (12)
61	07:18				06:41		18:36 (23)		05:15	70	05:38 (12)		
62	17:03	9	07:40 (32)		06:41		19:00 (23)		20:34	72	06:31 (12)		
63			07:49 (32)		19:22	24			20:34	53			
Potential sun hours	286		291		369		404		459		466		
Total, worst case	496		756		411		159		615		1850		
Sun reduction	0.41		0.48		0.51		0.49		0.56		0.59		
Oper. time red.	1.00		1.00		1.00		1.00		1.00		1.00		
Wind dir. red.	0.79		0.67		0.66		0.71		0.79		0.79		
Total reduction	0.32		0.32		0.33		0.35		0.44		0.47		
Total, real	159		242		137		55		272		861		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 80

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 212 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (801)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:39 (12)	05:42	06:18		06:54		07:46 (25)	06:34	07:03 (32)	07:14
2	05:15	05:39 (12)	05:43	06:19		06:55		07:41 (25)	06:35	07:03 (32)	07:15
3	05:15	05:40 (12)	05:44	06:20		06:56		07:39 (25)	06:37	07:04 (32)	07:16
4	05:16	05:41 (12)	05:45	06:22	18:38 (23)	06:58		07:38 (25)	06:38	07:03 (32)	07:17
5	05:16	05:41 (12)	05:46	06:23	18:36 (23)	06:59		07:36 (25)	06:39	07:04 (32)	07:18
6	05:17	05:42 (12)	05:47	06:24	18:34 (23)	07:00		07:34 (25)	06:41	07:04 (32)	07:19
7	05:18	05:42 (12)	05:48	06:25	18:32 (23)	07:01		07:34 (25)	06:42	07:06 (32)	07:20
8	05:18	05:43 (12)	05:50	06:26	18:31 (23)	07:03		07:33 (25)	06:44	07:07 (32)	07:21
9	05:19	05:44 (12)	05:51	06:27	18:30 (23)	07:04		07:32 (25)	06:45	07:09 (32)	07:22
10	05:20	05:44 (12)	05:52	06:29	18:29 (23)	07:05		07:31 (25)	06:46	07:10 (32)	07:23
11	05:21	05:45 (12)	05:53	06:30	18:28 (23)	07:06		07:32 (25)	06:48	07:12 (32)	07:24
12	05:22	05:46 (12)	05:54	06:31	18:27 (23)	07:08		07:31 (25)	06:49	07:25 (32)	07:25
13	05:22	05:47 (12)	05:55	06:32	18:26 (23)	07:09		07:31 (25)	06:50	07:26 (32)	07:26
14	05:23	05:48 (12)	05:57	06:33	18:25 (23)	07:10		07:32 (25)	06:52	07:26 (32)	07:26
15	05:24	05:49 (12)	05:58	06:35	18:24 (23)	07:11		07:33 (25)	06:53	07:27 (32)	07:27
16	05:25	05:49 (12)	05:59	06:36	18:23 (23)	07:13		07:34 (25)	06:55	07:28 (32)	07:28
17	05:26	05:50 (12)	06:00	06:37	18:22 (23)	07:14		07:36 (25)	06:56	07:29 (32)	07:29
18	05:27	05:51 (12)	06:01	06:38	18:21 (23)	07:15		07:37 (25)	06:57	07:29 (32)	07:29
19	05:28	05:52 (12)	06:03	06:39	18:20 (23)	07:17		07:38 (25)	06:59	07:30 (32)	07:30
20	05:29	05:53 (12)	06:04	06:41	18:19 (23)	07:18		07:41 (25)	07:00	07:31 (32)	07:31
21	05:30	05:54 (12)	06:05	06:42	18:18 (23)	07:19		07:40 (25)	07:01	15:19 (28)	07:31
22	05:31	05:55 (12)	06:06	06:43	18:17 (23)	07:21		07:42 (25)	07:02	15:17 (28)	07:32
23	05:32	05:56 (12)	06:07	06:44	18:16 (23)	07:22		07:43 (25)	07:04	15:17 (28)	07:32
24	05:33	05:57 (12)	06:09	06:45	18:15 (23)	07:23		07:44 (25)	07:05	15:15 (28)	07:33
25	05:34	05:58 (12)	06:10	06:47	18:14 (23)	07:24		07:45 (25)	07:06	15:15 (28)	07:33
26	05:35	06:01 (12)	06:11	06:48	18:13 (23)	07:25		07:46 (25)	07:08	15:15 (28)	07:33
27	05:36	06:02 (12)	06:12	06:49	18:12 (23)	07:26		07:47 (25)	07:09	15:14 (28)	07:34
28	05:37	06:03 (12)	06:13	06:50	18:11 (23)	07:27		07:48 (25)	07:10	15:14 (28)	07:34
29	05:38	06:04 (12)	06:14	06:51	18:10 (23)	07:28		07:49 (25)	07:11	15:14 (28)	07:34
30	05:39	06:05 (12)	06:15	06:52	18:09 (23)	07:29		07:50 (25)	07:12	15:14 (28)	07:34
31	05:40	06:06 (12)	06:16	06:53	18:08 (23)	07:30		07:51 (25)	07:13	15:14 (28)	07:34
Potential sun hours	472		436	376		341		288		275	
Total, worst case	1291			285		793		471		834	
Sun reduction	0.64			0.54		0.47		0.31		0.33	
Oper. time red.	1.00			1.00		1.00		1.00		1.00	
Wind dir. red.	0.79			0.71		0.67		0.69		0.79	
Total reduction	0.50			0.38		0.31		0.21		0.26	
Total, real	651			109		248		101		216	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 213 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (802)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:23 (28)	07:17		06:36	06:57 (25)	06:39	18:36 (23)	05:48	05:14	05:38 (12)
	16:26	28	15:51 (28)	17:04		17:43	19:24	25	19:01 (23)	20:00	20:34
2	07:35	15:24 (28)	07:16		06:34	06:56 (25)	06:37		18:35 (23)	05:46	05:14
	16:27	27	15:51 (28)	17:06		17:45	19:25	26	19:01 (23)	20:01	20:35
3	07:35	15:24 (28)	07:15		06:32	06:56 (25)	06:35		18:35 (23)	05:45	05:13
	16:28	28	15:52 (28)	17:07		17:46	19:26	25	19:00 (23)	20:02	20:36
4	07:35	15:25 (28)	07:14		16:38 (24)	06:31	06:33		18:36 (23)	05:43	05:13
	16:29	27	15:52 (28)	17:08	4	16:42 (24)	17:47	28	07:23 (25)	19:27	24
5	07:35	15:26 (28)	07:12		16:36 (24)	06:29	06:32		18:37 (23)	05:42	05:12
	16:30	27	15:53 (28)	17:10	8	16:44 (24)	17:49	28	07:23 (25)	19:29	22
6	07:35	15:26 (28)	07:11		16:35 (24)	06:27	06:30		18:37 (23)	05:40	05:12
	16:31	27	15:53 (28)	17:11	11	16:46 (24)	17:50	27	07:23 (25)	19:30	20
7	07:34	15:27 (28)	07:10		16:34 (24)	06:25	06:28		18:38 (23)	05:39	05:11
	16:32	27	15:54 (28)	17:13	13	16:47 (24)	17:51	26	07:22 (25)	19:31	18
8	07:34	15:27 (28)	07:09		16:33 (24)	07:24	07:56 (25)	06:26	18:39 (23)	05:38	05:11
	16:33	26	15:53 (28)	17:14	16	16:49 (24)	18:53	25	08:21 (25)	19:32	14
9	07:34	15:28 (28)	07:07		16:33 (24)	07:22	07:57 (25)	06:24	18:42 (23)	05:36	05:11
	16:34	26	15:54 (28)	17:16	18	16:51 (24)	18:54	23	08:20 (25)	19:34	8
10	07:34	15:29 (28)	07:06		16:32 (24)	07:20	07:58 (25)	06:23		05:35	05:11
	16:35	25	15:54 (28)	17:17	20	16:52 (24)	18:55	20	08:18 (25)	19:35	
11	07:33	15:29 (28)	07:04		16:32 (24)	07:18	07:59 (25)	06:21		05:34	05:10
	16:36	25	15:54 (28)	17:18	22	16:54 (24)	18:57	17	08:16 (25)	19:36	
12	07:33	15:31 (28)	07:03		16:31 (24)	07:16	08:02 (25)	06:19		05:33	05:10
	16:37	23	15:54 (28)	17:20	24	16:55 (24)	18:58	12	08:14 (25)	19:37	
13	07:33	15:31 (28)	07:02		16:32 (24)	07:14		06:17		05:31	05:10
	16:39	23	15:54 (28)	17:21	25	16:57 (24)	18:59			05:31	05:10
14	07:32	15:33 (28)	07:00		16:32 (24)	07:13		06:15		05:30	05:10
	16:40	21	15:54 (28)	17:23	24	16:56 (24)	19:01			05:29	05:10
15	07:32	15:33 (28)	06:59		16:32 (24)	07:11		06:14		05:29	05:10
	16:41	21	15:54 (28)	17:24	25	16:57 (24)	19:02			05:28	05:10
16	07:31	15:34 (28)	06:57		16:32 (24)	07:09		06:12		05:28	05:10
	16:42	19	15:53 (28)	17:25	24	16:56 (24)	19:03			05:28	05:10
17	07:30	15:36 (28)	06:56		16:34 (24)	07:07		06:10		05:27	05:10
	16:44	17	15:53 (28)	17:27	22	16:56 (24)	19:05			05:27	05:10
18	07:30	15:37 (28)	06:54		16:34 (24)	07:05		06:08		05:26	05:10
	16:45	15	15:52 (28)	17:28	20	16:54 (24)	19:06			05:26	05:10
19	07:29	15:39 (28)	06:52		16:35 (24)	07:03		06:07		05:25	05:10
	16:46	11	15:50 (28)	17:30	18	16:53 (24)	19:07			05:25	05:10
20	07:28	15:43 (28)	06:51		16:37 (24)	07:01		06:05		05:24	05:10
	16:48	4	15:47 (28)	17:31	14	16:51 (24)	19:08			05:24	05:10
21	07:28		06:49		16:40 (24)	07:00		06:03		05:23	05:10
	16:49		17:32	8	16:48 (24)	19:10		05:22		05:23	05:10
22	07:27		06:48			06:58		05:22		05:22	05:11
	16:50		17:34			19:11		05:22		05:22	05:11
23	07:26		06:46		07:08 (25)	06:56		05:21		05:21	05:11
	16:52		17:35	7	07:15 (25)	19:12		05:21		05:21	05:11
24	07:25		06:44		07:05 (25)	06:54		05:20		05:20	05:11
	16:53		17:37	13	07:18 (25)	19:13	2	05:20		05:20	05:11
25	07:24		06:43		07:04 (25)	06:52		05:19		05:19	05:11
	16:54		17:38	16	07:20 (25)	19:15	8	05:19		05:19	05:11
26	07:23		06:41		07:02 (25)	06:50		05:18		05:18	05:11
	16:56		17:39	20	07:22 (25)	19:16	11	05:18		05:18	05:11
27	07:22		06:39		07:00 (25)	06:48		05:18		05:18	05:12
	16:57		17:41	22	07:22 (25)	19:17	14	05:18		05:18	05:12
28	07:21		06:38		06:58 (25)	06:46		05:17		05:17	05:13
	16:58		17:42	25	07:23 (25)	19:19	17	05:17		05:17	05:13
29	07:20				06:45			05:16		05:16	05:13
	17:00				19:20		19	05:16		05:16	05:13
30	07:19				06:43			05:15		05:15	05:13
	17:01				19:21		22	05:15		05:15	05:13
31	07:18				06:41			05:15		05:15	05:13
	17:03				19:22		24	05:15		05:15	05:13
Potential sun hours	286		291		369		404		459		466
Total, worst case		447		419		406		182		811	
Sun reduction		0.41		0.48		0.51		0.49		0.56	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.79		0.75		0.66		0.71		0.79	
Total reduction		0.32		0.36		0.33		0.35		0.44	
Total, real		144		151		136		63		359	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: 213 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (802)

Assumptions for shadow calculations

Sunshine probability S/S_0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December			
1	05:14		05:40 (12)	05:42		06:12 (12)	06:18		06:54		07:42 (25)	06:34		16:02 (24)	07:14		15:11 (28)	
	20:47	63	06:43 (12)	20:25	5	06:17 (12)	19:35		18:39	9	07:51 (25)	16:46	19	16:21 (24)	16:17	25	15:36 (28)	
2	05:15		05:40 (12)	05:43			06:19		06:55		07:38 (25)	06:35		16:02 (24)	07:15		15:11 (28)	
	20:47	63	06:43 (12)	20:24			19:33		18:37	16	07:54 (25)	16:45	17	16:19 (24)	16:17	25	15:36 (28)	
3	05:15		05:40 (12)	05:44			06:20		06:56		07:37 (25)	06:37		16:03 (24)	07:16		15:11 (28)	
	20:47	64	06:44 (12)	20:23			19:31	8	18:40 (23)	18:35	19	07:56 (25)	16:43	15	16:18 (24)	16:17	26	15:37 (28)
4	05:16		05:40 (12)	05:45			06:22		06:58		07:35 (25)	06:38		16:04 (24)	07:17		15:12 (28)	
	20:46	63	06:43 (12)	20:21			19:30	14	18:50 (23)	18:33	22	07:57 (25)	16:42	13	16:17 (24)	16:16	26	15:38 (28)
5	05:16		05:41 (12)	05:46			06:23		06:59		07:33 (25)	06:39		16:05 (24)	07:18		15:12 (28)	
	20:46	62	06:43 (12)	20:20			19:28	18	18:53 (23)	18:31	25	07:58 (25)	16:41	11	16:16 (24)	16:16	27	15:39 (28)
6	05:17		05:42 (12)	05:47			06:24		07:00		07:52 (25)	06:41		16:06 (24)	07:19		15:13 (28)	
	20:46	62	06:44 (12)	20:19			19:26	21	18:54 (23)	18:29	26	07:58 (25)	16:39	8	16:14 (24)	16:16	26	15:39 (28)
7	05:18		05:42 (12)	05:48			06:25		07:01		07:52 (25)	06:42		16:09 (24)	07:20		15:13 (28)	
	20:46	61	06:43 (12)	20:17			19:24	22	18:54 (23)	18:28	27	07:59 (25)	16:38	4	16:13 (24)	16:16	27	15:40 (28)
8	05:18		05:43 (12)	05:50			06:26		07:03		07:51 (25)	06:44			07:21		15:13 (28)	
	20:45	60	06:43 (12)	20:16			19:22	24	18:54 (23)	18:26	28	07:59 (25)	16:37		16:16	27	15:40 (28)	
9	05:19		05:44 (12)	05:51			06:27		07:04		07:50 (25)	06:45			07:22		15:13 (28)	
	20:45	59	06:43 (12)	20:15			19:20	25	18:54 (23)	18:24	28	07:58 (25)	16:36		16:16	28	15:41 (28)	
10	05:20		05:44 (12)	05:52			06:29		07:05		07:50 (25)	06:46			07:23		15:14 (28)	
	20:44	59	06:43 (12)	20:13			19:18	25	18:54 (23)	18:22	28	07:58 (25)	16:35		16:16	27	15:41 (28)	
11	05:21		05:45 (12)	05:53			06:30		07:06		07:50 (25)	06:48			07:24		15:14 (28)	
	20:44	58	06:43 (12)	20:12			19:17	25	18:53 (23)	18:20	28	07:58 (25)	16:33		16:16	28	15:42 (28)	
12	05:22		05:46 (12)	05:54			06:31		07:08		07:50 (25)	06:49			07:25		15:15 (28)	
	20:43	57	06:43 (12)	20:10			19:15	24	18:52 (23)	18:19	27	07:57 (25)	16:32		16:16	28	15:43 (28)	
13	05:22		05:47 (12)	05:55			06:32		07:09		07:50 (25)	06:50			07:26		15:14 (28)	
	20:43	56	06:43 (12)	20:09			19:13	22	18:50 (23)	18:17	26	07:56 (25)	16:31		16:16	28	15:42 (28)	
14	05:23		05:48 (12)	05:57			06:33		07:10		07:52 (25)	06:52			07:26		15:15 (28)	
	20:42	55	06:43 (12)	20:07			19:11	20	18:48 (23)	18:15	24	07:56 (25)	16:30		16:16	28	15:43 (28)	
15	05:24		05:49 (12)	05:58			06:35		07:11		07:53 (25)	06:53			07:27		15:16 (28)	
	20:41	53	06:42 (12)	20:06			19:09	18	18:46 (23)	18:13	21	07:54 (25)	16:29		16:16	28	15:44 (28)	
16	05:25		05:49 (12)	05:59			06:36		07:13		07:54 (25)	06:55			07:28		15:16 (28)	
	20:41	52	06:41 (12)	20:04			19:07	15	18:44 (23)	18:12	18	07:52 (25)	16:28		16:16	28	15:44 (28)	
17	05:26		05:50 (12)	06:00			06:37		07:14		07:56 (25)	06:56			07:29		15:16 (28)	
	20:40	51	06:41 (12)	20:03			19:05	12	18:42 (23)	18:10	15	07:51 (25)	16:27		16:17	28	15:44 (28)	
18	05:27		05:51 (12)	06:01			06:38		07:15		07:57 (25)	06:57			07:29		15:17 (28)	
	20:39	49	06:40 (12)	20:01			19:03	9	18:41 (23)	18:08	11	07:48 (25)	16:26		16:17	28	15:45 (28)	
19	05:28		05:52 (12)	06:03			06:39		07:17			06:59			07:30		15:18 (28)	
	20:38	48	06:40 (12)	19:58			19:01	4	18:39 (23)	18:07		16:25			16:17	28	15:46 (28)	
20	05:29		05:53 (12)	06:04			06:41		07:18			07:00			07:31		15:18 (28)	
	20:38	46	06:39 (12)	19:56			19:00		18:05			16:24			16:18	28	15:46 (28)	
21	05:30		05:54 (12)	06:05			06:42		07:19		17:09 (24)	07:01			07:31		15:19 (28)	
	20:37	45	06:39 (12)	19:54			18:58		18:03	11	17:04 (24)	16:24			16:18	28	15:47 (28)	
22	05:31		05:55 (12)	06:06			06:43		07:21		17:07 (24)	07:02		15:19 (28)	07:32		15:19 (28)	
	20:36	43	06:38 (12)	19:53			18:56		18:02	15	17:22 (24)	16:23	4	15:23 (28)	16:19	28	15:47 (28)	
23	05:32		05:56 (12)	06:07			06:44		07:22		17:05 (24)	07:04		15:16 (28)	07:32		15:20 (28)	
	20:35	41	06:37 (12)	19:51			18:54		18:00	19	17:24 (24)	16:22	11	15:27 (28)	16:19	28	15:48 (28)	
24	05:33		05:57 (12)	06:09			06:45		07:23		17:04 (24)	07:05		15:15 (28)	07:33		15:20 (28)	
	20:34	39	06:36 (12)	19:49			18:52		17:58	20	17:24 (24)	16:21	14	15:29 (28)	16:20	28	15:48 (28)	
25	05:34		05:58 (12)	06:10			06:47		07:25		17:03 (24)	07:06		15:13 (28)	07:33		15:20 (28)	
	20:33	37	06:35 (12)	19:48			18:50		17:57	22	17:25 (24)	16:21	17	15:30 (28)	16:20	28	15:48 (28)	
26	05:35		05:59 (12)	06:11			06:48		07:26		17:02 (24)	07:08		15:13 (28)	07:33		15:21 (28)	
	20:32	35	06:34 (12)	19:46			18:48		17:55	24	17:26 (24)	16:20	19	15:32 (28)	16:21	28	15:49 (28)	
27	05:36		06:00 (12)	06:12			06:49		07:27		17:02 (24)	07:09		15:12 (28)	07:34		15:21 (28)	
	20:31	32	06:32 (12)	19:44			18:46		17:54	24	17:26 (24)	16:19	21	15:33 (28)	16:22	28	15:49 (28)	
28	05:37		06:01 (12)	06:13			06:50		07:29		17:01 (24)	07:10		15:12 (28)	07:34		15:22 (28)	
	20:30	30	06:31 (12)	19:42			18:44		17:52	25	17:26 (24)	16:19	21	15:33 (28)	16:22	27	15:49 (28)	
29	05:38		06:02 (12)	06:14			06:51		07:30		17:02 (24)	07:11		15:12 (28)	07:34		15:22 (28)	
	20:29	27	06:29 (12)	19:41			18:42		17:51	24	17:26 (24)	16:18	23	15:35 (28)	16:23	28	15:50 (28)	
30	05:39		06:03 (12)	06:16			06:53		07:31		17:01 (24)	07:12		15:12 (28)	07:34		15:22 (28)	
	20:28	23	06:26 (12)	19:39			18:41		17:49	23	17:24 (24)	16:18	23	15:35 (28)	16:24	28	15:50 (28)	
31	05:40		06:06 (12)	06:17					07:33		17:02 (24)				07:35		15:23 (28)	
	20:26	17	06:23 (12)	19:37					17:48	21	17:23 (24)				16:25	27	15:50 (28)	
Potential sun hours	472			436			376		341			288			275			
Total, worst case		1510			5		306		626			240					850	
Sun reduction		0.64			0.60		0.54		0.47			0.31					0.33	
Oper. time red.		1.00			1.00		1.00		1.00			1.00					1.00	
Wind dir. red.		0.79			0.79		0.71		0.69			0.79					0.79	
Total reduction		0.51			0.47		0.38		0.32			0.24					0.26	
Total, real		764			2		117		203			59					221	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 2:48 PM / 83

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 214 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (803)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June				
1	07:35	15:21 (28)	07:17		06:36	06:57 (25)	06:39	18:36 (23)	05:48		05:14	05:38 (12)			
	16:26	28	15:49 (28)	17:04		17:43	25	07:22 (25)	19:24	25	19:01 (23)	20:00	20:34	58	06:36 (12)
2	07:35	15:22 (28)	07:16		06:34	06:55 (25)	06:37	18:36 (23)	05:46		05:14	05:37 (12)			
	16:27	28	15:50 (28)	17:06		17:45	27	07:22 (25)	19:25	26	19:02 (23)	20:01	20:35	59	06:36 (12)
3	07:35	15:22 (28)	07:15		06:32	06:54 (25)	06:35	18:35 (23)	05:45		05:13	05:37 (12)			
	16:28	28	15:50 (28)	17:07	3	16:39 (24)	17:46	19:01 (23)	20:02	26	19:01 (23)	20:02	20:36	59	06:36 (12)
4	07:35	15:23 (28)	07:14		06:31	06:54 (25)	06:33	18:36 (23)	05:43		05:13	05:36 (12)			
	16:29	27	15:50 (28)	17:08	6	16:42 (24)	17:47	19:01 (23)	20:04	25	19:01 (23)	20:04	20:37	60	06:36 (12)
5	07:35	15:24 (28)	07:12		06:29	06:53 (25)	06:32	18:36 (23)	05:42		05:12	05:36 (12)			
	16:30	27	15:51 (28)	17:10	9	16:44 (24)	17:49	19:00 (23)	20:05	24	19:00 (23)	20:05	20:38	61	06:37 (12)
6	07:35	15:25 (28)	07:11		06:27	06:54 (25)	06:30	18:37 (23)	05:40		05:12	05:36 (12)			
	16:31	26	15:51 (28)	17:11	12	16:46 (24)	17:50	18:59 (23)	20:06	22	18:59 (23)	20:06	20:38	62	06:38 (12)
7	07:34	15:26 (28)	07:10		06:25	06:54 (25)	06:28	18:37 (23)	05:39		05:11	05:35 (12)			
	16:32	26	15:52 (28)	17:13	15	16:47 (24)	17:52	18:57 (23)	20:07	20	18:57 (23)	20:07	20:39	62	06:37 (12)
8	07:34	15:25 (28)	07:09		06:24	07:54 (25)	06:26	18:38 (23)	05:38		05:11	05:36 (12)			
	16:33	26	15:51 (28)	17:14	17	16:49 (24)	18:53	18:55 (23)	20:09	17	18:55 (23)	20:09	20:40	62	06:38 (12)
9	07:34	15:27 (28)	07:07		06:22	07:55 (25)	06:24	18:40 (23)	05:36		05:11	05:36 (12)			
	16:34	25	15:52 (28)	17:16	19	16:51 (24)	18:54	18:53 (23)	20:10	13	18:43 (23)	20:10	20:41	62	06:38 (12)
10	07:34	15:28 (28)	07:06		06:20	07:55 (25)	06:23	18:45 (23)	05:35		05:11	05:36 (12)			
	16:35	24	15:52 (28)	17:17	21	16:52 (24)	18:55	18:49 (23)	20:11	9	06:09 (12)	20:11	20:41	63	06:39 (12)
11	07:33	15:28 (28)	07:04		06:18	07:56 (25)	06:21		05:34		05:56 (12)	05:10	05:36 (12)		
	16:36	24	15:52 (28)	17:18	23	16:54 (24)	18:57		20:12	18	06:14 (12)	20:12	20:42	62	06:38 (12)
12	07:33	15:29 (28)	07:03		06:16	07:59 (25)	06:19		05:33		05:54 (12)	05:10	05:36 (12)		
	16:37	23	15:52 (28)	17:20	25	16:55 (24)	18:58		20:13	22	06:16 (12)	20:12	20:42	63	06:39 (12)
13	07:33	15:30 (28)	07:02		06:14	08:02 (25)	06:17		05:31		05:53 (12)	05:10	05:36 (12)		
	16:39	21	15:51 (28)	17:21	25	16:56 (24)	18:59		20:15	26	06:19 (12)	20:12	20:43	63	06:39 (12)
14	07:32	15:31 (28)	07:00		06:13	08:10 (25)	06:15		05:30		05:52 (12)	05:10	05:36 (12)		
	16:40	21	15:52 (28)	17:23	25	16:56 (24)	19:01		20:16	29	06:21 (12)	20:12	20:44	63	06:39 (12)
15	07:32	15:32 (28)	06:59		06:11		06:14		05:29		05:51 (12)	05:10	05:36 (12)		
	16:41	19	15:51 (28)	17:24	24	16:56 (24)	19:02		20:17	31	06:22 (12)	20:12	20:44	64	06:40 (12)
16	07:31	15:33 (28)	06:57		06:09		06:12		05:28		05:50 (12)	05:10	05:37 (12)		
	16:42	17	15:50 (28)	17:25	23	16:55 (24)	19:03		20:18	34	06:24 (12)	20:12	20:45	63	06:40 (12)
17	07:30	15:35 (28)	06:56		06:07		06:10		05:27		05:49 (12)	05:10	05:37 (12)		
	16:44	15	15:50 (28)	17:27	22	16:55 (24)	19:05		20:19	36	06:25 (12)	20:12	20:45	63	06:40 (12)
18	07:30	15:37 (28)	06:54		06:05		06:08		05:26		05:48 (12)	05:10	05:37 (12)		
	16:45	11	15:48 (28)	17:28	19	16:53 (24)	19:06		20:20	38	06:26 (12)	20:12	20:45	63	06:40 (12)
19	07:29	15:40 (28)	06:52		06:03		06:07		05:25		05:47 (12)	05:10	05:38 (12)		
	16:46	5	15:45 (28)	17:30	17	16:52 (24)	19:07		20:21	40	06:27 (12)	20:12	20:46	63	06:41 (12)
20	07:28		06:51		06:01		06:05		05:24		05:46 (12)	05:10	05:38 (12)		
	16:48		17:31	13	16:50 (24)	19:08	19:47		20:22	42	06:28 (12)	20:12	20:46	63	06:41 (12)
21	07:28		06:49		06:00		06:03		05:23		05:45 (12)	05:10	05:38 (12)		
	16:49		17:32	6	16:46 (24)	19:10	19:49		20:24	44	06:29 (12)	20:12	20:46	63	06:41 (12)
22	07:27		06:48		06:58		06:02		05:22		05:44 (12)	05:11	05:38 (12)		
	16:50		17:34		19:11		19:50		20:25	45	06:29 (12)	20:12	20:46	63	06:41 (12)
23	07:26		06:46		06:56		06:00		05:21		05:44 (12)	05:11	05:38 (12)		
	16:52		17:35		19:12		19:51		20:26	47	06:31 (12)	20:12	20:47	63	06:41 (12)
24	07:25		06:44		06:54		05:58		05:20		05:43 (12)	05:11	05:39 (12)		
	16:53		17:37	9	07:14 (25)	19:13	19:52		20:27	48	06:31 (12)	20:12	20:47	63	06:42 (12)
25	07:24		06:43		06:52		05:57		05:19		05:42 (12)	05:11	05:39 (12)		
	16:54		17:38	13	07:17 (25)	19:15	6	18:52 (23)	05:19	20:28	06:32 (12)	20:12	20:47	63	06:42 (12)
26	07:23		06:41		06:50		05:55		05:18		05:41 (12)	05:12	05:39 (12)		
	16:56		17:39	17	07:19 (25)	19:16	10	18:53 (23)	05:18	20:29	06:32 (12)	20:12	20:47	63	06:42 (12)
27	07:22		06:39		06:48		05:54		05:18		05:41 (12)	05:12	05:39 (12)		
	16:57		17:41	20	07:20 (25)	19:17	13	18:54 (23)	05:18	20:30	06:33 (12)	20:12	20:47	64	06:43 (12)
28	07:21		06:38		06:46		05:52		05:17		05:40 (12)	05:13	05:39 (12)		
	16:58		17:42	22	07:20 (25)	19:19	16	18:56 (23)	05:17	20:31	06:34 (12)	20:12	20:47	63	06:42 (12)
29	07:20				06:45		05:51		05:16		05:39 (12)	05:13	05:40 (12)		
	17:00				19:20		05:51		20:32	55	06:34 (12)	20:12	20:47	63	06:43 (12)
30	07:19				06:43		05:49		05:15		05:39 (12)	05:13	05:40 (12)		
	17:01				19:21		20:00		20:33	56	06:35 (12)	20:12	20:47	63	06:43 (12)
31	07:18				06:41		18:37 (23)		05:15		05:38 (12)				
	17:03				19:22	23	19:00 (23)		20:34	57	06:35 (12)				
Potential sun hours	286		291		369		404		459		466				
Total, worst case		421		405		408		202		884		1869			
Sun reduction		0.41		0.48		0.51		0.49		0.56		0.59			
Oper. time red.		1.00		1.00		1.00		1.00		1.00		1.00			
Wind dir. red.		0.79		0.76		0.66		0.71		0.79		0.79			
Total reduction		0.32		0.36		0.33		0.35		0.44		0.47			
Total, real		136		147		136		70		391		871			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
	Minutes with flicker					

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 214 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (803)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:41 (12)	05:42	06:05 (12)	06:18	06:54	07:39 (25)	06:34	16:01 (24)	07:14	15:10 (28)
2	05:15	05:40 (12)	05:43	06:07 (12)	06:19	18:43 (23)	06:55	07:36 (25)	16:01 (24)	07:15	15:10 (28)
3	05:15	05:41 (12)	05:44	06:22 (12)	06:20	18:38 (23)	06:56	07:35 (25)	16:02 (24)	07:16	15:10 (28)
4	05:16	05:41 (12)	05:45		06:22	18:35 (23)	06:58	07:33 (25)	16:02 (24)	07:17	15:11 (28)
5	05:16	05:42 (12)	05:46		06:23	18:34 (23)	06:59	07:31 (25)	16:04 (24)	07:18	15:11 (28)
6	05:17	05:42 (12)	05:47		06:24	18:33 (23)	07:00	07:30 (25)	16:05 (24)	07:19	15:11 (28)
7	05:18	05:42 (12)	05:48		06:25	18:31 (23)	07:01	07:30 (25)	16:07 (24)	07:20	15:11 (28)
8	05:18	05:43 (12)	05:50		06:26	18:30 (23)	07:03	07:29 (25)	16:09 (24)	07:21	15:11 (28)
9	05:19	05:44 (12)	05:51		06:27	18:29 (23)	07:04	07:29 (25)	16:11 (24)	07:22	15:11 (28)
10	05:20	05:44 (12)	05:52		06:29	18:29 (23)	07:05	07:28 (25)	16:12 (24)	07:23	15:12 (28)
11	05:21	05:45 (12)	05:53		06:30	18:28 (23)	07:06	07:29 (25)	16:13 (24)	07:24	15:12 (28)
12	05:22	05:46 (12)	05:54		06:31	18:27 (23)	07:07	07:29 (25)	16:14 (24)	07:25	15:13 (28)
13	05:22	05:47 (12)	05:55		06:32	18:26 (23)	07:08	07:30 (25)	16:15 (24)	07:26	15:13 (28)
14	05:23	05:48 (12)	05:57		06:33	18:25 (23)	07:09	07:31 (25)	16:16 (24)	07:27	15:14 (28)
15	05:24	05:49 (12)	05:58		06:34	18:24 (23)	07:10	07:32 (25)	16:17 (24)	07:28	15:14 (28)
16	05:25	05:50 (12)	06:00		06:35	18:23 (23)	07:11	07:33 (25)	16:18 (24)	07:29	15:15 (28)
17	05:26	05:51 (12)	06:01		06:36	18:22 (23)	07:12	07:34 (25)	16:19 (24)	07:30	15:16 (28)
18	05:27	05:52 (12)	06:02		06:37	18:21 (23)	07:13	07:35 (25)	16:20 (24)	07:31	15:17 (28)
19	05:28	05:53 (12)	06:03		06:38	18:20 (23)	07:14	07:36 (25)	16:21 (24)	07:32	15:18 (28)
20	05:29	05:54 (12)	06:04		06:39	18:19 (23)	07:15	07:37 (25)	16:22 (24)	07:33	15:19 (28)
21	05:30	05:55 (12)	06:05		06:40	18:18 (23)	07:16	07:38 (25)	16:23 (24)	07:34	15:20 (28)
22	05:31	05:56 (12)	06:06		06:41	18:17 (23)	07:17	07:39 (25)	16:24 (24)	07:35	15:21 (28)
23	05:32	05:57 (12)	06:07		06:42	18:16 (23)	07:18	07:40 (25)	16:25 (24)	07:36	15:22 (28)
24	05:33	05:58 (12)	06:08		06:43	18:15 (23)	07:19	07:41 (25)	16:26 (24)	07:37	15:23 (28)
25	05:34	05:59 (12)	06:09		06:44	18:14 (23)	07:20	07:42 (25)	16:27 (24)	07:38	15:24 (28)
26	05:35	06:00 (12)	06:10		06:45	18:13 (23)	07:21	07:43 (25)	16:28 (24)	07:39	15:25 (28)
27	05:36	06:01 (12)	06:11		06:46	18:12 (23)	07:22	07:44 (25)	16:29 (24)	07:40	15:26 (28)
28	05:37	06:02 (12)	06:12		06:47	18:11 (23)	07:23	07:45 (25)	16:30 (24)	07:41	15:27 (28)
29	05:38	06:03 (12)	06:13		06:48	18:10 (23)	07:24	07:46 (25)	16:31 (24)	07:42	15:28 (28)
30	05:39	06:04 (12)	06:14		06:49	18:09 (23)	07:25	07:47 (25)	16:32 (24)	07:43	15:29 (28)
31	05:40	06:05 (12)	06:15		06:50	18:08 (23)	07:26	07:48 (25)	16:33 (24)	07:44	15:30 (28)
Potential sun hours	472	436	376	341	288	275	850				
Total, worst case	1549	36	316	611	229	850					
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.33					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.79	0.79	0.71	0.69	0.79	0.79					
Total reduction	0.51	0.47	0.38	0.33	0.24	0.26					
Total, real	783	17	121	199	56	220					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 215 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (804)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	15:23 (28)	07:17		06:36	06:57 (25)	06:39	18:41 (23)	05:48		05:14	05:38 (12)
	16:26	29	15:52 (28)	17:04	17:43	16	07:13 (25)	19:24	20	19:01 (23)	20:00	20:34 45 06:23 (12)
2	07:35	15:23 (28)	07:16		06:34	06:55 (25)	06:37	18:40 (23)	05:46		05:14	05:37 (12)
	16:27	29	15:52 (28)	17:06	17:45	19	07:14 (25)	19:25	22	19:02 (23)	20:01	20:35 46 06:23 (12)
3	07:35	15:24 (28)	07:15		06:32	06:53 (25)	06:35	18:40 (23)	05:45		05:13	05:37 (12)
	16:28	29	15:53 (28)	17:07	17:46	21	07:14 (25)	19:26	23	19:03 (23)	20:02	20:36 47 06:24 (12)
4	07:35	15:24 (28)	07:14		06:31	06:51 (25)	06:33	18:40 (23)	05:43		05:13	05:36 (12)
	16:29	29	15:53 (28)	17:08	17:47	24	07:15 (25)	19:27	25	19:05 (23)	20:04	20:37 48 06:24 (12)
5	07:35	15:25 (28)	07:12		16:42 (24)	06:29	06:49 (25)	06:32	18:39 (23)	05:42	05:12	05:36 (12)
	16:30	29	15:54 (28)	17:10	2	16:44 (24)	17:49	26	19:06 (23)	20:05	20:38 48 06:24 (12)	
6	07:35	15:26 (28)	07:11		16:39 (24)	06:27	06:49 (25)	06:30	18:39 (23)	05:40	05:12	05:36 (12)
	16:31	28	15:54 (28)	17:11	7	16:46 (24)	17:50	27	19:05 (23)	20:06	20:38 49 06:25 (12)	
7	07:34	15:27 (28)	07:10		16:37 (24)	06:25	06:48 (25)	06:28	18:39 (23)	05:39	05:11	05:35 (12)
	16:32	28	15:55 (28)	17:13	10	16:47 (24)	17:52	27	19:04 (23)	20:07	20:39 50 06:25 (12)	
8	07:34	15:26 (28)	07:09		16:36 (24)	07:24	07:48 (25)	06:26	18:39 (23)	05:38	05:11	05:35 (12)
	16:33	28	15:54 (28)	17:14	13	16:49 (24)	18:53	27	19:03 (23)	20:09	20:40 51 06:26 (12)	
9	07:34	15:27 (28)	07:07		16:36 (24)	07:22	07:48 (25)	06:24	18:40 (23)	05:36	05:11	05:35 (12)
	16:34	28	15:55 (28)	17:16	15	16:51 (24)	18:54	26	19:02 (23)	20:10	20:41 51 06:26 (12)	
10	07:34	15:28 (28)	07:06		16:35 (24)	07:20	07:48 (25)	06:23	18:41 (23)	05:35	05:11	05:35 (12)
	16:35	27	15:55 (28)	17:17	17	16:52 (24)	18:55	25	19:01 (23)	20:11	20:41 52 06:27 (12)	
11	07:33	15:29 (28)	07:04		16:34 (24)	07:18	07:48 (25)	06:21	18:42 (23)	05:34	05:10	05:34 (12)
	16:36	26	15:55 (28)	17:18	20	16:54 (24)	18:57	24	18:59 (23)	20:12	20:42 52 06:26 (12)	
12	07:33	15:30 (28)	07:03		16:34 (24)	07:16	07:49 (25)	06:19	18:44 (23)	05:33	05:10	05:34 (12)
	16:37	25	15:55 (28)	17:20	21	16:55 (24)	18:58	23	18:57 (23)	20:13	20:42 53 06:27 (12)	
13	07:33	15:30 (28)	07:02		16:34 (24)	07:14	07:50 (25)	06:17	18:48 (23)	05:31	05:10	05:34 (12)
	16:39	25	15:55 (28)	17:21	23	16:57 (24)	18:59	21	18:52 (23)	20:15	20:43 53 06:27 (12)	
14	07:32	15:31 (28)	07:00		16:33 (24)	07:13	07:51 (25)	06:15		05:30	05:10	05:34 (12)
	16:40	24	15:55 (28)	17:23	25	16:58 (24)	19:01	17	08:08 (25)	19:40	20:16 53 06:27 (12)	
15	07:32	15:32 (28)	06:59		16:34 (24)	07:11	07:53 (25)	06:14	05:29	05:53 (12)	05:10	05:34 (12)
	16:41	23	15:55 (28)	17:24	26	17:00 (24)	19:02	13	08:06 (25)	19:41	20:17 4 05:57 (12) 20:44 54 06:28 (12)	
16	07:31	15:33 (28)	06:57		16:34 (24)	07:09	07:58 (25)	06:12	05:28	05:50 (12)	05:10	05:34 (12)
	16:42	21	15:54 (28)	17:25	25	16:59 (24)	19:03	2	08:00 (25)	19:42	20:18 13 06:03 (12) 20:45 54 06:28 (12)	
17	07:30	15:35 (28)	06:56		16:34 (24)	07:07		06:10	05:27	05:49 (12)	05:10	05:34 (12)
	16:44	19	15:54 (28)	17:27	25	16:59 (24)	19:05		05:26	06:06 (12)	20:45 54 06:28 (12)	
18	07:30	15:36 (28)	06:54		16:35 (24)	07:05	06:08		05:26	05:48 (12)	05:10	05:34 (12)
	16:45	17	15:53 (28)	17:28	23	16:58 (24)	19:06		05:20	06:09 (12)	20:45 54 06:28 (12)	
19	07:29	15:37 (28)	06:52		16:35 (24)	07:03	06:07		05:25	05:47 (12)	05:10	05:35 (12)
	16:46	15	15:52 (28)	17:30	22	16:57 (24)	19:07		05:21	06:10 (12)	20:46 54 06:29 (12)	
20	07:28	15:39 (28)	06:51		16:37 (24)	07:01	06:05		05:24	05:46 (12)	05:10	05:35 (12)
	16:48	12	15:51 (28)	17:31	20	16:57 (24)	19:08		05:22	06:12 (12)	20:46 55 06:30 (12)	
21	07:28	15:43 (28)	06:49		16:38 (24)	07:00	06:03		05:23	05:45 (12)	05:10	05:35 (12)
	16:49	6	15:49 (28)	17:32	17	16:55 (24)	19:10		05:24	06:13 (12)	20:46 55 06:30 (12)	
22	07:27		06:48		16:40 (24)	06:58	06:02		05:22	05:44 (12)	05:11	05:35 (12)
	16:50		17:34	13	16:53 (24)	19:11	19:50		05:20	06:14 (12)	20:46 55 06:30 (12)	
23	07:26		06:46		16:43 (24)	06:56	06:00		05:21	05:44 (12)	05:11	05:35 (12)
	16:52		17:35	6	16:49 (24)	19:12	19:51		05:20	06:16 (12)	20:47 55 06:30 (12)	
24	07:25		06:44			06:54	05:58		05:20	05:43 (12)	05:11	05:36 (12)
	16:53		17:37			19:13	19:52		05:20	06:17 (12)	20:47 54 06:30 (12)	
25	07:24		06:43			06:52	05:57		05:19	05:42 (12)	05:11	05:36 (12)
	16:54		17:38			19:15	19:54		05:18	06:18 (12)	20:47 54 06:30 (12)	
26	07:23		06:41			06:50	05:55		05:18	05:41 (12)	05:12	05:36 (12)
	16:56		17:39			19:16	19:55		05:18	06:18 (12)	20:47 54 06:30 (12)	
27	07:22		06:39		07:00 (25)	06:48		18:52 (23)	05:18	05:41 (12)	05:12	05:37 (12)
	16:57		17:41	8	07:08 (25)	19:17	2	18:54 (23)	05:17	06:20 (12)	20:47 54 06:31 (12)	
28	07:21		06:38		06:58 (25)	06:46		18:48 (23)	05:17	05:40 (12)	05:13	05:37 (12)
	16:58		17:42	12	07:10 (25)	19:19	8	18:56 (23)	05:17	06:20 (12)	20:47 54 06:31 (12)	
29	07:20				06:45			18:46 (23)	05:16	05:39 (12)	05:13	05:38 (12)
	17:00				19:20		11	18:57 (23)	05:16	06:20 (12)	20:47 53 06:31 (12)	
30	07:19				06:43			18:44 (23)	05:15	05:39 (12)	05:13	05:38 (12)
	17:01				19:21		15	18:59 (23)	05:15	06:21 (12)	20:47 53 06:31 (12)	
31	07:18				06:41			18:43 (23)	05:15	05:38 (12)		
	17:03				19:22		17	19:00 (23)	05:14	06:22 (12)		
Potential sun hours	286		291		369		404		459		466	
Total, worst case		497		350		391		268		507		1564
Sun reduction		0.41		0.48		0.51		0.49		0.56		0.59
Oper. time red.		1.00		1.00		1.00		1.00		1.00		1.00
Wind dir. red.		0.79		0.78		0.65		0.70		0.79		0.79
Total reduction		0.32		0.37		0.33		0.34		0.44		0.47
Total, real		160		131		130		92		225		731

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
			Minutes with flicker			

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 215 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (804)****Assumptions for shadow calculations**

Sunshine probability S/50 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:14		05:39 (12)	05:42		06:18		18:41 (23)	06:54		07:28 (25)	06:34		16:04 (24)	07:14	15:11 (28)	
2	05:15	52	06:31 (12)	05:43		06:19	17	18:58 (23)	18:39	22	07:50 (25)	16:46	17	16:21 (24)	16:17	15:37 (28)	
3	05:15	52	06:31 (12)	05:44		06:20	20	18:59 (23)	18:37	24	07:51 (25)	16:45	14	16:19 (24)	16:17	15:37 (28)	
4	05:16	51	06:31 (12)	05:45		06:22	22	19:00 (23)	18:35	26	07:52 (25)	16:43	12	16:18 (24)	16:17	15:38 (28)	
5	05:16	50	06:31 (12)	05:46		06:23	24	19:01 (23)	18:33	27	07:52 (25)	16:42	10	16:17 (24)	16:16	15:39 (28)	
6	05:17	49	06:31 (12)	05:47		06:24	25	19:01 (23)	18:31	27	07:52 (25)	16:41	6	16:16 (24)	16:16	15:40 (28)	
7	05:18	49	06:31 (12)	05:48		06:25	26	19:01 (23)	18:29	27	07:51 (25)	16:39	2	16:14 (24)	16:16	15:40 (28)	
8	05:18	48	06:31 (12)	05:50		06:26	26	19:01 (23)	18:28	28	07:52 (25)	16:38			16:16	15:41 (28)	
9	05:19	47	06:31 (12)	05:51		06:27	25	18:59 (23)	18:26	27	07:51 (25)	16:37			16:16	15:41 (28)	
10	05:20	46	06:30 (12)	05:52		06:29	23	18:57 (23)	18:24	25	07:50 (25)	16:36			16:16	15:42 (28)	
11	05:21	45	06:30 (12)	05:53		06:30	22	18:55 (23)	18:22	23	07:49 (25)	16:35			16:16	15:42 (28)	
12	05:22	44	06:30 (12)	05:54		06:31	20	18:53 (23)	18:20	20	07:48 (25)	16:33			16:16	15:43 (28)	
13	05:22	43	06:30 (12)	05:55		06:32	17	18:52 (23)	18:19	17	07:46 (25)	16:32			16:16	15:43 (28)	
14	05:23	42	06:30 (12)	05:57		06:33	15	18:50 (23)	18:17	14	07:44 (25)	16:31			16:16	15:43 (28)	
15	05:24	41	06:30 (12)	05:58		06:35	12	18:48 (23)	18:15	11	07:43 (25)	16:30			16:16	15:43 (28)	
16	05:25	39	06:28 (12)	05:59		06:36	9	18:46 (23)	18:13	5	07:38 (25)	16:29			16:16	15:44 (28)	
17	05:26	38	06:28 (12)	06:00		06:37	4	18:44 (23)	18:12			16:28			16:16	15:45 (28)	
18	05:27	36	06:27 (12)	06:01		06:38			18:10			16:27			16:17	15:45 (28)	
19	05:28	35	06:27 (12)	06:03		06:39			18:08			16:26			16:17	15:45 (28)	
20	05:29	33	06:26 (12)	06:04		06:40			18:07	9	17:22 (24)	16:25			16:17	15:46 (28)	
21	05:30	31	06:25 (12)	06:05		06:42			18:06	15	17:25 (24)	16:24			16:18	15:46 (28)	
22	05:31	29	06:24 (12)	06:06		06:43			18:05	18	17:26 (24)	16:24	6	15:24 (28)	16:18	15:47 (28)	
23	05:32	27	06:23 (12)	06:07		06:44			18:04	21	17:27 (24)	16:23	12	15:25 (28)	16:19	15:48 (28)	
24	05:33	25	06:22 (12)	06:08		06:45			18:03	23	17:28 (24)	16:22	15	15:26 (28)	16:19	15:48 (28)	
25	05:34	22	06:21 (12)	06:09		06:46			18:02	24	17:29 (24)	16:21	17	15:27 (28)	16:20	15:48 (28)	
26	05:35	19	06:20 (12)	06:10		06:47			18:01	25	17:30 (24)	16:20	19	15:28 (28)	16:21	15:49 (28)	
27	05:36	16	06:19 (12)	06:11		06:48			18:00	26	17:31 (24)	16:19	21	15:29 (28)	16:22	15:50 (28)	
28	05:37	11	06:18 (12)	06:12		06:49			17:59	26	17:32 (24)	16:18	23	15:30 (28)	16:23	15:51 (28)	
29	05:38		06:17 (12)	06:13		06:50			17:58	24	17:33 (24)	16:17	23	15:31 (28)	16:24	15:52 (28)	
30	05:39		06:16 (12)	06:14		06:51			17:57	22	17:34 (24)	16:16	25	15:32 (28)	16:25	15:53 (28)	
31	05:40		06:15 (12)	06:15		06:52			17:56	21	17:35 (24)	16:15	25	15:33 (28)	16:26	15:54 (28)	
Potential sun hours	472		436			376			341		288			275			
Total, worst case	1071		18			353			596		247			888			
Sun reduction	0.64		0.60			0.54			0.47		0.31			0.33			
Oper. time red.	1.00		1.00			1.00			1.00		1.00			1.00			
Wind dir. red.	0.79		0.70			0.69			0.71		0.79			0.79			
Total reduction	0.51		0.42			0.37			0.33		0.24			0.26			
Total, real	543		8			132			199		60			231			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 216 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (805)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June		
1	07:35	15:20 (28)	07:17		06:36	06:57 (25)	06:39	18:42 (23)	05:48	05:14	05:38 (12)	
	16:26	29	15:49 (28)	17:04		17:43	19:24	19:01 (23)	20:00	20:34	06:25 (12)	
2	07:35		15:20 (28)	07:16		06:34	06:37	18:41 (23)	05:46	05:14	05:37 (12)	
	16:27	30	15:50 (28)	17:06		17:45	19:25	19:02 (23)	20:01	20:35	06:24 (12)	
3	07:35		15:21 (28)	07:15		06:32	06:35	18:40 (23)	05:45	05:13	05:37 (12)	
	16:28	29	15:50 (28)	17:07		17:46	19:26	19:03 (23)	20:02	20:36	06:25 (12)	
4	07:35		15:22 (28)	07:14		06:31	06:33	18:40 (23)	05:43	05:13	05:36 (12)	
	16:29	29	15:51 (28)	17:08		17:48	19:27	19:05 (23)	20:04	20:37	06:25 (12)	
5	07:35		15:22 (28)	07:12		06:29	06:32	18:40 (23)	05:42	05:12	05:36 (12)	
	16:30	29	15:51 (28)	17:10	5	16:44 (24)	17:49	19:06 (23)	20:05	20:38	06:26 (12)	
6	07:35		15:23 (28)	07:11		16:37 (24)	06:27	18:39 (23)	05:40	05:12	05:36 (12)	
	16:31	29	15:52 (28)	17:11	9	16:46 (24)	17:50	19:06 (23)	20:06	20:39	06:27 (12)	
7	07:34		15:24 (28)	07:10		16:35 (24)	06:25	18:39 (23)	05:39	05:11	05:35 (12)	
	16:32	28	15:52 (28)	17:13	12	16:47 (24)	17:52	19:05 (23)	20:07	20:39	06:26 (12)	
8	07:34		15:24 (28)	07:09		16:35 (24)	07:24	18:39 (23)	05:38	05:11	05:35 (12)	
	16:33	28	15:52 (28)	17:14	14	16:49 (24)	18:53	19:04 (23)	20:09	20:40	06:27 (12)	
9	07:34		15:25 (28)	07:07		16:34 (24)	07:22	18:39 (23)	05:36	05:11	05:35 (12)	
	16:34	27	15:52 (28)	17:16	17	16:51 (24)	18:54	19:03 (23)	20:10	20:41	06:27 (12)	
10	07:34		15:26 (28)	07:06		16:33 (24)	07:20	18:41 (23)	05:35	05:11	05:35 (12)	
	16:35	27	15:53 (28)	17:17	19	16:52 (24)	18:55	19:03 (23)	20:11	20:41	06:28 (12)	
11	07:33		15:26 (28)	07:04		16:33 (24)	07:18	18:41 (23)	05:34	05:10	05:34 (12)	
	16:36	26	15:52 (28)	17:18	21	16:54 (24)	18:57	19:01 (23)	20:12	20:42	06:27 (12)	
12	07:33		15:28 (28)	07:03		16:32 (24)	07:16	18:42 (23)	05:33	05:10	05:34 (12)	
	16:37	24	15:52 (28)	17:20	23	16:55 (24)	18:58	18:59 (23)	20:13	20:42	06:28 (12)	
13	07:33		15:28 (28)	07:02		16:32 (24)	07:14	18:44 (23)	05:31	05:10	05:34 (12)	
	16:39	24	15:52 (28)	17:21	25	16:57 (24)	18:59	18:56 (23)	20:15	20:43	06:28 (12)	
14	07:32		15:30 (28)	07:00		16:32 (24)	07:13	18:50 (23)	05:30	05:10	05:34 (12)	
	16:40	22	15:52 (28)	17:23	26	16:58 (24)	19:01	18:51 (23)	20:16	20:44	06:28 (12)	
15	07:32		15:30 (28)	06:59		16:32 (24)	07:11	05:29	05:12	05:10	05:34 (12)	
	16:41	22	15:52 (28)	17:24	27	16:59 (24)	19:02	20:17	06:08 (12)	20:44	06:29 (12)	
16	07:31		15:31 (28)	06:57		16:32 (24)	07:09	05:28	05:50 (12)	05:10	05:34 (12)	
	16:42	20	15:51 (28)	17:25	26	16:58 (24)	19:03	20:18	06:10 (12)	20:45	06:29 (12)	
17	07:30		15:33 (28)	06:56		16:33 (24)	07:07	05:27	05:49 (12)	05:10	05:34 (12)	
	16:44	18	15:51 (28)	17:27	25	16:58 (24)	19:05	20:19	06:12 (12)	20:45	06:29 (12)	
18	07:30		15:35 (28)	06:54		16:33 (24)	07:05	05:26	05:48 (12)	05:10	05:34 (12)	
	16:45	14	15:49 (28)	17:28	24	16:57 (24)	19:06	20:20	06:13 (12)	20:45	06:29 (12)	
19	07:29		15:36 (28)	06:52		16:34 (24)	07:03	05:25	05:47 (12)	05:10	05:35 (12)	
	16:46	12	15:48 (28)	17:30	22	16:56 (24)	19:07	20:21	06:15 (12)	20:46	06:30 (12)	
20	07:28		15:40 (28)	06:51		16:36 (24)	07:01	05:24	05:46 (12)	05:10	05:35 (12)	
	16:48	5	15:45 (28)	17:31	19	16:55 (24)	19:08	20:22	06:16 (12)	20:46	06:31 (12)	
21	07:28			06:49		16:37 (24)	07:00	05:23	05:45 (12)	05:10	05:35 (12)	
	16:49			17:32	17	16:54 (24)	19:10	20:24	06:17 (12)	20:46	06:31 (12)	
22	07:27			06:48		16:39 (24)	06:58	05:22	05:44 (12)	05:11	05:35 (12)	
	16:50			17:34	13	16:52 (24)	19:11	20:25	06:17 (12)	20:46	06:31 (12)	
23	07:26			06:46		16:43 (24)	06:56	05:21	05:44 (12)	05:11	05:35 (12)	
	16:52			17:35	4	16:47 (24)	19:12	20:26	06:19 (12)	20:47	06:30 (12)	
24	07:25			06:44			06:54	05:20	05:43 (12)	05:11	05:36 (12)	
	16:53			17:37			19:13	20:27	06:20 (12)	20:47	06:31 (12)	
25	07:24			06:43			06:52	05:19	05:42 (12)	05:11	05:36 (12)	
	16:54			17:38			19:15	20:28	06:20 (12)	20:47	06:31 (12)	
26	07:23			06:41			06:50	05:18	05:41 (12)	05:12	05:36 (12)	
	16:56			17:39			19:16	20:29	06:21 (12)	20:47	06:31 (12)	
27	07:22			06:39			06:48	05:18	05:41 (12)	05:12	05:37 (12)	
	16:57			17:41			19:17	20:30	06:22 (12)	20:47	06:32 (12)	
28	07:21			06:38		06:58 (25)	06:46	05:17	05:40 (12)	05:13	05:37 (12)	
	16:58			17:42	8	07:06 (25)	19:19	20:31	06:22 (12)	20:47	06:32 (12)	
29	07:20					06:45		05:16	05:39 (12)	05:13	05:38 (12)	
	17:00					19:20		20:32	06:22 (12)	20:47	06:32 (12)	
30	07:19					06:43		05:15	05:39 (12)	05:13	05:38 (12)	
	17:01					19:21		20:33	06:23 (12)	20:47	06:32 (12)	
31	07:18					06:41		05:15	05:38 (12)			
	17:03					19:22		20:34	06:24 (12)			
Potential sun hours	286		291		369		404		459		466	
Total, worst case		472		356		383		288		594		1596
Sun reduction		0.41		0.48		0.51		0.49		0.56		0.59
Oper. time red.		1.00		1.00		1.00		1.00		1.00		1.00
Wind dir. red.		0.79		0.79		0.65		0.70		0.79		0.79
Total reduction		0.32		0.38		0.33		0.34		0.44		0.47
Total, real		152		134		127		99		263		745

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

Jericho_SFA_2015_08_28

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Licensed user:

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US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 217 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (806)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June		
1	07:35	15:17 (28)	07:17		06:36	06:57 (25)	06:39	18:37 (23)	05:48	05:14	05:38 (12)	
	16:26	27	15:44 (28)	17:04		17:43	19:24	19:01 (23)	20:00	20:34	06:35 (12)	
2	07:35		15:17 (28)	07:16	16:36 (24)	06:55 (25)	06:37	18:37 (23)	05:46	05:14	05:37 (12)	
	16:27	28	15:45 (28)	17:06	16:40 (24)	07:15 (25)	19:25	19:02 (23)	20:01	20:35	06:34 (12)	
3	07:35		15:18 (28)	07:15	16:34 (24)	06:53 (25)	06:35	18:36 (23)	05:45	05:13	05:37 (12)	
	16:28	27	15:45 (28)	17:07	16:42 (24)	07:16 (25)	19:26	19:03 (23)	20:02	20:36	06:35 (12)	
4	07:35		15:19 (28)	07:14	16:32 (24)	06:51 (25)	06:33	18:37 (23)	05:43	05:13	05:37 (12)	
	16:29	26	15:45 (28)	17:08	16:42 (24)	07:16 (25)	19:27	19:04 (23)	20:04	20:37	06:35 (12)	
5	07:35		15:20 (28)	07:12	16:31 (24)	06:49 (25)	06:32	18:37 (23)	05:42	05:12	05:37 (12)	
	16:30	26	15:46 (28)	17:10	16:44 (24)	07:16 (25)	19:29	19:03 (23)	20:05	20:38	06:35 (12)	
6	07:35		15:21 (28)	07:11	16:31 (24)	06:50 (25)	06:30	18:37 (23)	05:40	05:12	05:38 (12)	
	16:31	25	15:46 (28)	17:11	16:46 (24)	07:16 (25)	19:30	19:02 (23)	20:06	20:39	06:36 (12)	
7	07:34		15:22 (28)	07:10	16:29 (24)	06:49 (25)	06:28	18:37 (23)	05:39	05:11	05:37 (12)	
	16:32	25	15:47 (28)	17:13	16:47 (24)	07:16 (25)	19:31	19:01 (23)	20:07	20:39	06:35 (12)	
8	07:34		15:22 (28)	07:09	16:29 (24)	07:49 (25)	06:26	18:37 (23)	05:38	05:59 (12)	05:11	
	16:33	24	15:46 (28)	17:14	16:49 (24)	08:15 (25)	19:32	19:00 (23)	20:09	20:40	06:36 (12)	
9	07:34		15:23 (28)	07:07	16:29 (24)	07:49 (25)	06:24	18:38 (23)	05:36	05:58 (12)	05:11	
	16:34	23	15:46 (28)	17:16	16:51 (24)	08:14 (25)	19:34	18:58 (23)	20:10	20:41	06:36 (12)	
10	07:34		15:24 (28)	07:06	16:28 (24)	07:50 (25)	06:23	18:40 (23)	05:35	05:57 (12)	05:11	
	16:35	23	15:47 (28)	17:17	16:52 (24)	08:13 (25)	19:35	18:57 (23)	20:11	20:41	06:37 (12)	
11	07:33		15:25 (28)	07:04	16:29 (24)	07:50 (25)	06:21	18:41 (23)	05:34	05:56 (12)	05:10	
	16:36	21	15:46 (28)	17:18	16:54 (24)	08:12 (25)	19:36	18:54 (23)	20:12	20:42	06:36 (12)	
12	07:33		15:26 (28)	07:03	16:28 (24)	07:52 (25)	06:19	18:45 (23)	05:33	05:54 (12)	05:10	
	16:37	20	15:46 (28)	17:20	16:55 (24)	08:11 (25)	19:37	18:50 (23)	20:13	20:42	06:36 (12)	
13	07:33		15:27 (28)	07:02	16:29 (24)	07:53 (25)	06:17		05:31	05:53 (12)	05:10	
	16:39	18	15:45 (28)	17:21	16:55 (24)	08:09 (25)	19:39		20:15	20:43	06:37 (12)	
14	07:32		15:29 (28)	07:00	16:29 (24)	07:56 (25)	06:15		05:30	05:52 (12)	05:10	
	16:40	16	15:45 (28)	17:23	16:54 (24)	08:06 (25)	19:40		20:16	20:44	06:37 (12)	
15	07:32		15:30 (28)	06:59	16:30 (24)		06:14		05:29	05:51 (12)	05:10	
	16:41	14	15:44 (28)	17:24	16:55 (24)		19:41		20:17	20:44	06:37 (12)	
16	07:31		15:32 (28)	06:57	16:30 (24)		06:12		05:28	05:50 (12)	05:10	
	16:42	10	15:42 (28)	17:25	16:53 (24)		19:42		20:18	20:45	06:37 (12)	
17	07:30			06:56	16:31 (24)		06:10		05:27	05:49 (12)	05:10	
	16:44			17:27	16:53 (24)		19:44		20:19	20:45	06:38 (12)	
18	07:30			06:54	16:32 (24)		06:08		05:26	05:48 (12)	05:10	
	16:45			17:28	16:52 (24)		19:45		20:20	20:45	06:38 (12)	
19	07:29			06:52	16:33 (24)		06:07		05:25	05:47 (12)	05:10	
	16:46			17:30	16:50 (24)		19:46		20:21	20:46	06:39 (12)	
20	07:28			06:51	16:36 (24)		06:05		05:24	05:46 (12)	05:10	
	16:48			17:31	16:48 (24)		19:47		20:22	20:46	06:39 (12)	
21	07:28			06:49	16:40 (24)		06:03		05:23	05:45 (12)	05:10	
	16:49			17:32	16:43 (24)		19:49		20:24	20:46	06:39 (12)	
22	07:27			06:48			06:02		05:22	05:44 (12)	05:11	
	16:50			17:34			19:50		20:25	20:46	06:39 (12)	
23	07:26			06:46			06:00		05:21	05:44 (12)	05:11	
	16:52			17:35			19:51		20:26	20:47	06:39 (12)	
24	07:25			06:44			05:58		05:20	05:43 (12)	05:11	
	16:53			17:37			19:52		20:27	20:47	06:40 (12)	
25	07:24			06:43			05:57		05:19	05:42 (12)	05:11	
	16:54			17:38			19:54		20:28	20:47	06:40 (12)	
26	07:23			06:41	07:02 (25)	06:50		05:18	05:41 (12)	05:12	05:41 (12)	
	16:56			17:39	07:09 (25)	19:16	6	18:53 (23)	19:55	20:29	06:39 (12)	
27	07:22			06:39	07:00 (25)	06:48		05:18	05:41 (12)	05:12	05:42 (12)	
	16:57			17:41	07:11 (25)	19:17	10	18:54 (23)	19:56	20:30	06:33 (12)	
28	07:21			06:38	06:58 (25)	06:46		05:17	05:40 (12)	05:13	05:42 (12)	
	16:58			17:42	07:13 (25)	19:19	13	18:56 (23)	19:57	20:31	06:33 (12)	
29	07:20				06:45			05:16	05:39 (12)	05:13	05:42 (12)	
	17:00				19:20		16	18:57 (23)	19:59	20:32	06:33 (12)	
30	07:19				06:43			05:15	05:39 (12)	05:13	05:42 (12)	
	17:01				19:21		19	18:59 (23)	20:00	20:33	06:34 (12)	
31	07:18				06:41			05:15	05:38 (12)		06:41 (12)	
	17:03				19:22		22	19:00 (23)		20:34	06:34 (12)	
Potential sun hours	286		291		369		404		459		466	
Total, worst case		353		392		393		256		971		1752
Sun reduction		0.41		0.48		0.51		0.49		0.56		0.59
Oper. time red.		1.00		1.00		1.00		1.00		1.00		1.00
Wind dir. red.		0.78		0.78		0.65		0.71		0.79		0.79
Total reduction		0.32		0.37		0.33		0.34		0.44		0.47
Total, real		113		146		131		88		429		816

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
			Minutes with flicker			

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 90

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 217 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (806)****Assumptions for shadow calculations**

Sunshine probability S/50 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:43 (12)	05:42	06:05 (12)	06:18	18:40 (23)	06:54	07:31 (25)	06:34	15:58 (24)	07:14
2	05:15	05:42 (12)	05:43	06:06 (12)	06:19	18:38 (23)	06:55	07:29 (25)	06:35	15:58 (24)	07:15
3	05:15	05:43 (12)	05:44	06:07 (12)	06:20	18:36 (23)	06:56	07:29 (25)	06:37	15:59 (24)	07:16
4	05:16	05:43 (12)	05:45	06:09 (12)	06:22	18:34 (23)	06:58	07:27 (25)	06:38	15:59 (24)	07:17
5	05:16	05:43 (12)	05:46	06:10 (12)	06:23	18:34 (23)	06:59	07:26 (25)	06:40	16:00 (24)	07:18
6	05:17	05:44 (12)	05:47	06:12 (12)	06:24	18:33 (23)	07:00	07:25 (25)	06:41	16:01 (24)	07:19
7	05:18	05:43 (12)	05:48	06:17 (12)	06:25	18:32 (23)	07:01	07:26 (25)	06:42	16:03 (24)	07:20
8	05:18	05:44 (12)	05:50	06:26	06:26	18:31 (23)	07:03	07:25 (25)	06:44	16:04 (24)	07:21
9	05:19	05:45 (12)	05:51	06:27	06:27	18:30 (23)	07:04	07:25 (25)	06:45	16:07 (24)	07:22
10	05:20	05:44 (12)	05:52	06:29	06:29	18:30 (23)	07:05	07:26 (25)	06:46	16:11 (24)	07:23
11	05:21	05:45 (12)	05:53	06:30	06:30	18:30 (23)	07:06	07:28 (25)	06:48	16:16 (24)	07:24
12	05:22	05:46 (12)	05:54	06:31	06:31	18:31 (23)	07:08	07:29 (25)	06:49	16:16 (24)	07:25
13	05:22	05:47 (12)	05:55	06:32	06:32	18:31 (23)	07:09	07:30 (25)	06:50	16:16 (24)	07:26
14	05:23	05:48 (12)	05:57	06:33	06:33	18:31 (23)	07:10	07:32 (25)	06:52	16:16 (24)	07:28
15	05:24	05:49 (12)	05:58	06:35	06:35	18:32 (23)	07:11	07:33 (25)	06:53	16:16 (24)	07:27
16	05:25	05:49 (12)	05:59	06:36	06:36	18:33 (23)	07:13	07:34 (25)	06:55	16:16 (24)	07:28
17	05:26	05:50 (12)	06:00	06:37	06:37	18:35 (23)	07:14	07:38 (25)	06:56	16:16 (24)	07:29
18	05:27	05:51 (12)	06:01	06:38	06:38	18:42 (23)	07:15	07:45 (25)	06:57	16:16 (24)	07:29
19	05:28	05:52 (12)	06:03	06:39	06:39	18:42 (23)	07:17	07:48 (25)	06:59	16:16 (24)	07:30
20	05:29	05:53 (12)	06:04	06:41	06:41	18:42 (23)	07:18	07:50 (25)	07:00	16:16 (24)	07:31
21	05:30	05:54 (12)	06:05	06:42	06:42	18:42 (23)	07:19	17:08 (24)	07:01	16:16 (24)	07:31
22	05:31	05:55 (12)	06:06	06:43	06:43	18:42 (23)	07:21	17:16 (24)	07:02	16:16 (24)	07:32
23	05:32	05:56 (12)	06:07	06:44	06:44	18:42 (23)	07:22	17:19 (24)	07:03	16:16 (24)	07:32
24	05:33	05:57 (12)	06:09	06:45	06:45	18:42 (23)	07:23	17:21 (24)	07:04	16:16 (24)	07:33
25	05:34	05:58 (12)	06:10	06:46	06:46	18:42 (23)	07:25	17:22 (24)	07:05	16:16 (24)	07:33
26	05:35	05:59 (12)	06:11	06:47	06:47	18:42 (23)	07:26	17:23 (24)	07:06	16:16 (24)	07:33
27	05:36	06:00 (12)	06:12	06:48	06:48	18:42 (23)	07:27	17:24 (24)	07:07	16:16 (24)	07:33
28	05:37	06:01 (12)	06:13	06:49	06:49	18:42 (23)	07:28	17:25 (24)	07:08	16:16 (24)	07:33
29	05:38	06:02 (12)	06:14	06:50	06:50	18:42 (23)	07:29	17:26 (24)	07:09	16:16 (24)	07:33
30	05:39	06:03 (12)	06:15	06:51	06:51	18:42 (23)	07:30	17:27 (24)	07:10	16:16 (24)	07:33
31	05:40	06:04 (12)	06:16	06:52	06:52	18:42 (23)	07:31	17:28 (24)	07:11	16:16 (24)	07:33
Potential sun hours	472	436	376	341	288	275	849	849	849	849	849
Total, worst case	1538	113	359	563	208	208	849	849	849	849	849
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.31	0.33	0.33	0.33	0.33	0.33
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.79	0.79	0.70	0.70	0.79	0.79	0.78	0.78	0.78	0.78	0.78
Total reduction	0.51	0.47	0.38	0.33	0.24	0.24	0.26	0.26	0.26	0.26	0.26
Total, real	777	53	136	186	51	219	219	219	219	219	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 91

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 218 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (807)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	15:15 (28)	07:17		06:36		06:57 (25)	06:39	18:40 (23)	05:48		05:14
	16:26	28	15:43 (28)	17:04		17:43	13	07:10 (25)	19:24	21	19:01 (23)	20:00
2	07:35		15:16 (28)	07:16		16:36 (24)	06:34	06:55 (25)	06:37		18:39 (23)	05:46
	16:27	27	15:43 (28)	17:06	4	16:40 (24)	17:45	16	07:11 (25)	19:25	23	19:02 (23)
3	07:35		15:16 (28)	07:15		16:34 (24)	06:32	06:53 (25)	06:35		18:38 (23)	05:45
	16:28	28	15:44 (28)	17:07	8	16:42 (24)	17:46	19	07:12 (25)	19:26	25	19:03 (23)
4	07:35		15:17 (28)	07:14		16:32 (24)	06:31	06:51 (25)	06:33		18:38 (23)	05:43
	16:29	27	15:44 (28)	17:08	10	16:42 (24)	17:48	21	07:12 (25)	19:27	27	19:05 (23)
5	07:35		15:18 (28)	07:12		16:31 (24)	06:29	06:49 (25)	06:32		18:38 (23)	05:42
	16:30	26	15:44 (28)	17:10	13	16:44 (24)	17:49	23	07:12 (25)	19:29	27	19:05 (23)
6	07:35		15:19 (28)	07:11		16:30 (24)	06:27	06:48 (25)	06:30		18:37 (23)	05:40
	16:31	26	15:45 (28)	17:11	16	16:46 (24)	17:50	25	07:13 (25)	19:30	28	19:05 (23)
7	07:34		15:20 (28)	07:10		16:29 (24)	06:25	06:47 (25)	06:28		18:37 (23)	05:39
	16:32	25	15:45 (28)	17:13	18	16:47 (24)	17:52	26	07:13 (25)	19:31	27	19:04 (23)
8	07:34		15:20 (28)	07:09		16:29 (24)	07:24	07:46 (25)	06:26		18:37 (23)	05:38
	16:33	25	15:45 (28)	17:14	20	16:49 (24)	18:53	27	08:13 (25)	19:32	26	19:03 (23)
9	07:34		15:21 (28)	07:07		16:29 (24)	07:22	07:46 (25)	06:24		18:38 (23)	05:36
	16:34	24	15:45 (28)	17:16	22	16:51 (24)	18:54	26	08:12 (25)	19:34	24	19:02 (23)
10	07:34		15:23 (28)	07:06		16:28 (24)	07:20	07:46 (25)	06:23		18:39 (23)	05:35
	16:35	22	15:45 (28)	17:17	24	16:52 (24)	18:55	25	08:11 (25)	19:35	22	19:01 (23)
11	07:33		15:23 (28)	07:04		16:28 (24)	07:18	07:46 (25)	06:21		18:40 (23)	05:34
	16:36	21	15:44 (28)	17:18	26	16:54 (24)	18:57	24	08:10 (25)	19:36	19	18:59 (23)
12	07:33		15:25 (28)	07:03		16:28 (24)	07:16	07:48 (25)	06:19		18:41 (23)	05:33
	16:37	19	15:44 (28)	17:20	27	16:55 (24)	18:58	22	08:10 (25)	19:37	16	18:57 (23)
13	07:33		15:26 (28)	07:02		16:28 (24)	07:14	07:49 (25)	06:17		18:43 (23)	05:31
	16:39	17	15:43 (28)	17:21	28	16:56 (24)	18:59	19	08:08 (25)	19:39	11	18:54 (23)
14	07:32		15:28 (28)	07:00		16:28 (24)	07:13	07:50 (25)	06:15			05:30
	16:40	15	15:43 (28)	17:23	27	16:55 (24)	19:01	16	08:06 (25)	19:40		20:16
15	07:32		15:29 (28)	06:59		16:29 (24)	07:11	07:52 (25)	06:14			05:29
	16:41	13	15:42 (28)	17:24	26	16:55 (24)	19:02	11	08:03 (25)	19:41		20:17
16	07:31		15:31 (28)	06:57		16:29 (24)	07:09		06:12			05:28
	16:42	9	15:40 (28)	17:25	25	16:54 (24)	19:03		19:42			20:18
17	07:30		15:32 (28)	06:56		16:30 (24)	07:07		06:10			05:27
	16:44		17:27	24	16:54 (24)	19:05	19:44		19:44			20:19
18	07:30		15:33 (28)	06:54		16:31 (24)	07:05		06:08			05:26
	16:45		17:28	21	16:52 (24)	19:06	19:45		19:45			20:20
19	07:29		15:34 (28)	06:52		16:33 (24)	07:03		06:07			05:25
	16:46		17:30	19	16:52 (24)	19:07	19:46		19:46			20:21
20	07:28		15:35 (28)	06:51		16:34 (24)	07:01		06:05			05:24
	16:48		17:31	15	16:49 (24)	19:08	19:47		19:47			20:22
21	07:28		15:36 (28)	06:49		16:37 (24)	07:00		06:03			05:23
	16:49		17:32	9	16:46 (24)	19:10	19:49		19:49			20:24
22	07:27		15:37 (28)	06:48		16:38 (24)	06:58		06:02			05:22
	16:50		17:34		19:11	19:50	20:25		20:25			20:25
23	07:26		15:38 (28)	06:46		16:39 (24)	06:56		06:00			05:21
	16:52		17:35		19:12	19:51	20:26		20:26			20:26
24	07:25		15:39 (28)	06:44		16:40 (24)	06:54		05:58			05:20
	16:53		17:37		19:13	19:52	20:27		19:52			20:27
25	07:24		15:40 (28)	06:43		16:41 (24)	06:52		05:57			05:19
	16:54		17:38		19:15	19:54	20:28		19:54			20:28
26	07:23		15:41 (28)	06:41		16:42 (24)	06:50		05:55			05:18
	16:56		17:39		19:16	19:55	20:29		19:55			20:29
27	07:22		15:42 (28)	06:39		16:43 (24)	06:48		05:54			05:18
	16:57		17:41	1	07:02 (25)	19:17	5	18:54 (23)	19:56			20:30
28	07:21		15:43 (28)	06:38		16:44 (24)	06:46		05:52			05:17
	16:58		17:42	9	07:07 (25)	19:19	9	18:56 (23)	19:57			20:31
29	07:20		15:44 (28)	06:36		16:45 (24)	06:45		05:51			05:16
	17:00				19:20	13	18:57 (23)	19:59	20:32			20:32
30	07:19		15:45 (28)	06:34		16:46 (24)	06:43		05:49			05:15
	17:01				19:21	17	18:59 (23)	20:00	20:33			20:33
31	07:18		15:46 (28)	06:31		16:47 (24)	06:41		05:48			05:15
	17:03				19:22	19	19:00 (23)		20:34			20:34
Potential sun hours	286		291		369		404		459			466
Total, worst case		352		392		376		296		900		1673
Sun reduction		0.41		0.48		0.51		0.49		0.56		0.59
Oper. time red.		1.00		1.00		1.00		1.00		1.00		1.00
Wind dir. red.		0.78		0.79		0.65		0.70		0.79		0.79
Total reduction		0.32		0.38		0.33		0.34		0.44		0.47
Total, real		113		148		125		102		398		779

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
	Minutes with flicker					

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 218 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (807)****Assumptions for shadow calculations**

Sunshine probability S/50 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42 (12)	05:42	06:05 (12)	06:18	18:39 (23)	06:54	07:27 (25)	06:34	15:58 (24)	07:14
2	05:15	05:42 (12)	05:43	06:06 (12)	06:19	18:37 (23)	06:55	07:26 (25)	06:35	15:58 (24)	07:15
3	05:15	05:43 (12)	05:44	06:07 (12)	06:20	18:36 (23)	06:56	07:25 (25)	06:37	15:59 (24)	07:16
4	05:16	05:42 (12)	05:45	06:09 (12)	06:22	18:34 (23)	06:58	07:24 (25)	06:38	15:59 (24)	07:17
5	05:16	05:43 (12)	05:46	06:10 (12)	06:23	18:34 (23)	06:59	07:23 (25)	06:40	16:00 (24)	07:18
6	05:17	05:43 (12)	05:47	06:11 (12)	06:24	18:33 (23)	07:00	07:22 (25)	06:41	16:01 (24)	07:19
7	05:18	05:43 (12)	05:48	06:12 (12)	06:25	18:33 (23)	07:01	07:21 (25)	06:42	16:03 (24)	07:20
8	05:18	05:43 (12)	05:50	06:13 (12)	06:26	18:32 (23)	07:03	07:20 (25)	06:44	16:04 (24)	07:21
9	05:19	05:44 (12)	05:51	06:14 (12)	06:27	18:32 (23)	07:04	07:19 (25)	06:45	16:08 (24)	07:22
10	05:20	05:44 (12)	05:52	06:15 (12)	06:29	18:32 (23)	07:05	07:18 (25)	06:46	16:11 (24)	07:23
11	05:21	05:45 (12)	05:53	06:16 (12)	06:30	18:32 (23)	07:06	07:17 (25)	06:48	16:16 (24)	07:24
12	05:22	05:46 (12)	05:54	06:17 (12)	06:31	18:33 (23)	07:08	07:16 (25)	06:49	16:16 (24)	07:25
13	05:22	05:47 (12)	05:55	06:18 (12)	06:32	18:33 (23)	07:09	07:15 (25)	06:50	16:16 (24)	07:26
14	05:23	05:48 (12)	05:57	06:19 (12)	06:33	18:34 (23)	07:10	07:14 (25)	06:52	16:16 (24)	07:27
15	05:24	05:49 (12)	05:58	06:20 (12)	06:34	18:35 (23)	07:11	07:13 (25)	06:53	16:16 (24)	07:28
16	05:25	05:50 (12)	06:00	06:21 (12)	06:35	18:36 (23)	07:12	07:12 (25)	06:54	16:16 (24)	07:29
17	05:26	05:51 (12)	06:01	06:22 (12)	06:36	18:37 (23)	07:13	07:11 (25)	06:55	16:16 (24)	07:30
18	05:27	05:52 (12)	06:02	06:23 (12)	06:37	18:38 (23)	07:14	07:10 (25)	06:56	16:16 (24)	07:31
19	05:28	05:53 (12)	06:03	06:24 (12)	06:38	18:39 (23)	07:15	07:09 (25)	06:57	16:16 (24)	07:32
20	05:29	05:54 (12)	06:04	06:25 (12)	06:39	18:40 (23)	07:16	07:08 (25)	06:58	16:16 (24)	07:33
21	05:30	05:55 (12)	06:05	06:26 (12)	06:40	18:41 (23)	07:17	07:07 (25)	06:59	16:16 (24)	07:34
22	05:31	05:56 (12)	06:06	06:27 (12)	06:41	18:42 (23)	07:18	07:06 (25)	07:00	16:16 (24)	07:35
23	05:32	05:57 (12)	06:07	06:28 (12)	06:42	18:43 (23)	07:19	07:05 (25)	07:01	16:16 (24)	07:36
24	05:33	05:58 (12)	06:08	06:29 (12)	06:43	18:44 (23)	07:20	07:04 (25)	07:02	16:16 (24)	07:37
25	05:34	05:59 (12)	06:09	06:30 (12)	06:44	18:45 (23)	07:21	07:03 (25)	07:03	16:16 (24)	07:38
26	05:35	06:00 (12)	06:10	06:31 (12)	06:45	18:46 (23)	07:22	07:02 (25)	07:04	16:16 (24)	07:39
27	05:36	06:01 (12)	06:11	06:32 (12)	06:46	18:47 (23)	07:23	07:01 (25)	07:05	16:16 (24)	07:40
28	05:37	06:02 (12)	06:12	06:33 (12)	06:47	18:48 (23)	07:24	07:00 (25)	07:06	16:16 (24)	07:41
29	05:38	06:03 (12)	06:13	06:34 (12)	06:48	18:49 (23)	07:25	06:59 (25)	07:07	16:16 (24)	07:42
30	05:39	06:04 (12)	06:14	06:35 (12)	06:49	18:50 (23)	07:26	06:58 (25)	07:08	16:16 (24)	07:43
31	05:40	06:05 (12)	06:15	06:36 (12)	06:50	18:51 (23)	07:27	06:57 (25)	07:09	16:16 (24)	07:44
Potential sun hours	472	436	376	341	288	275	859	203	0.31	0.33	1.00
Total, worst case	1455	115	0.54	0.47	0.31	0.33	1.00	0.79	0.78	0.26	0.735
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.33	1.00	0.79	0.78	0.26	0.735
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.79	0.77	0.70	0.71	0.79	0.78	0.26	0.735	0.735	0.735	0.735
Total reduction	0.51	0.46	0.37	0.33	0.24	0.26	0.735	0.735	0.735	0.735	0.735
Total, real	735	53	141	179	50	222					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 93

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 219 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (808)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:15 (28)	07:17		06:36	06:57 (25)	06:39	18:43 (23)	05:48	05:14	05:38 (12)
	16:26	29	15:44 (28)	17:04		5	07:02 (25)	19:24	18:01 (23)	20:00	20:34
2	07:35	15:15 (28)	07:16		06:34	06:55 (25)	06:37	18:42 (23)	05:46	05:14	05:37 (12)
	16:27	29	15:44 (28)	17:06		10	07:05 (25)	19:25	20	19:02 (23)	20:01
3	07:35	15:16 (28)	07:15		16:39 (24)	06:32	06:53 (25)	06:35	18:41 (23)	05:45	05:13
	16:28	29	15:45 (28)	17:07	3	16:42 (24)	17:46	13	07:06 (25)	19:26	22
4	07:35	15:17 (28)	07:14		16:35 (24)	06:31	06:51 (25)	06:33	18:41 (23)	05:43	05:13
	16:29	28	15:45 (28)	17:08	7	16:42 (24)	17:48	16	07:07 (25)	19:27	24
5	07:35	15:18 (28)	07:12		16:34 (24)	06:29	06:49 (25)	06:32	18:40 (23)	05:42	05:12
	16:30	27	15:45 (28)	17:10	10	16:44 (24)	17:49	19	07:08 (25)	19:29	26
6	07:35	15:18 (28)	07:11		16:33 (24)	06:27	06:48 (25)	06:30	18:39 (23)	05:40	05:12
	16:31	28	15:46 (28)	17:11	13	16:46 (24)	17:50	21	07:09 (25)	19:30	28
7	07:34	15:19 (28)	07:10		16:31 (24)	06:25	06:46 (25)	06:28	18:39 (23)	05:39	05:11
	16:32	27	15:46 (28)	17:13	16	16:47 (24)	17:52	24	07:10 (25)	19:31	28
8	07:34	15:19 (28)	07:09		16:31 (24)	07:24	07:44 (25)	06:26	18:39 (23)	05:38	05:11
	16:33	27	15:46 (28)	17:14	18	16:49 (24)	18:53	25	08:09 (25)	19:32	27
9	07:34	15:21 (28)	07:07		16:31 (24)	07:22	07:43 (25)	06:24	18:39 (23)	05:36	05:11
	16:34	25	15:46 (28)	17:16	20	16:51 (24)	18:54	26	08:09 (25)	19:34	27
10	07:34	15:22 (28)	07:06		16:29 (24)	07:20	07:43 (25)	06:23	18:40 (23)	05:35	05:11
	16:35	24	15:46 (28)	17:17	23	16:52 (24)	18:55	26	08:09 (25)	19:35	26
11	07:33	15:22 (28)	07:04		16:30 (24)	07:18	07:43 (25)	06:21	18:40 (23)	05:34	05:10
	16:36	24	15:46 (28)	17:18	24	16:54 (24)	18:57	25	08:08 (25)	19:36	24
12	07:33	15:24 (28)	07:03		16:29 (24)	07:16	07:44 (25)	06:19	18:40 (23)	05:33	05:10
	16:37	22	15:46 (28)	17:20	26	16:55 (24)	18:58	24	08:08 (25)	19:37	23
13	07:33	15:24 (28)	07:02		16:29 (24)	07:14	07:44 (25)	06:17	18:41 (23)	05:31	05:10
	16:39	21	15:45 (28)	17:21	28	16:57 (24)	18:59	23	08:07 (25)	19:39	20
14	07:32	15:26 (28)	07:00		16:29 (24)	07:13	07:45 (25)	06:15	18:43 (23)	05:30	05:10
	16:40	19	15:45 (28)	17:23	28	16:57 (24)	19:01	20	08:05 (25)	19:40	17
15	07:32	15:27 (28)	06:59		16:30 (24)	07:11	07:46 (25)	06:14	18:45 (23)	05:29	05:11
	16:41	17	15:44 (28)	17:24	27	16:57 (24)	19:02	17	08:03 (25)	19:41	12
16	07:31	15:29 (28)	06:57		16:30 (24)	07:09	07:47 (25)	06:12	05:28	05:50 (12)	05:10
	16:42	14	15:43 (28)	17:25	26	16:56 (24)	19:03	14	08:01 (25)	19:42	20:18
17	07:30	15:32 (28)	06:56		16:31 (24)	07:07	07:51 (25)	06:10	05:27	05:49 (12)	05:10
	16:44	10	15:42 (28)	17:27	25	16:56 (24)	19:05	6	07:57 (25)	19:44	20:19
18	07:30	15:36 (28)	06:54		16:31 (24)	07:05		06:09	05:26	05:48 (12)	05:10
	16:45	2	15:38 (28)	17:28	24	16:55 (24)	19:06		20:20	06:19 (12)	05:45
19	07:29		06:52		16:32 (24)	07:03		19:45	05:25	05:47 (12)	05:10
	16:46		17:30		22	16:54 (24)	19:07		20:21	06:20 (12)	05:46
20	07:28		06:51		16:33 (24)	07:01		19:46	05:24	05:46 (12)	05:10
	16:48		17:31		20	16:53 (24)	19:08		20:22	06:21 (12)	05:46
21	07:28		06:49		16:35 (24)	07:00		19:47	05:23	05:45 (12)	05:10
	16:49		17:32		16	16:51 (24)	19:10		20:24	06:21 (12)	05:46
22	07:27		06:48		16:38 (24)	06:58		19:49	05:22	05:44 (12)	05:11
	16:50		17:34		11	16:49 (24)	19:11		20:25	06:22 (12)	05:47
23	07:26		06:46			06:56			05:21	05:44 (12)	05:11
	16:52		17:35			19:12			20:26	06:23 (12)	05:47
24	07:25		06:44			06:54			05:20	05:43 (12)	05:11
	16:53		17:37			19:13			20:27	06:23 (12)	05:47
25	07:24		06:43			06:52			05:19	05:42 (12)	05:11
	16:54		17:38			19:15			20:28	06:24 (12)	05:47
26	07:23		06:41			06:50			05:18	05:41 (12)	05:12
	16:56		17:39			19:16			20:29	06:24 (12)	05:47
27	07:22		06:39			06:48			05:18	05:41 (12)	05:12
	16:57		17:41			19:17			20:30	06:25 (12)	05:47
28	07:21		06:38			06:46			05:17	05:40 (12)	05:13
	16:58		17:42			19:19			20:31	06:25 (12)	05:47
29	07:20					06:45			05:16	05:39 (12)	05:13
	17:00					19:20	6	18:57 (23)	20:32	06:25 (12)	05:47
30	07:19					06:43			05:15	05:39 (12)	05:13
	17:01					19:21	11	18:59 (23)	20:33	06:26 (12)	05:47
31	07:18					06:41			05:15	05:38 (12)	
	17:03					19:22	15	19:00 (23)	20:34	06:26 (12)	
Potential sun hours	286		291		369		404		459		466
Total, worst case		402		387		346		342		729	1601
Sun reduction		0.41		0.48		0.51		0.49		0.56	0.59
Oper. time red.		1.00		1.00		1.00		1.00		1.00	1.00
Wind dir. red.		0.78		0.79		0.65		0.70		0.79	0.79
Total reduction		0.32		0.38		0.33		0.34		0.44	0.47
Total, real		129		147		115		117		323	747

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
	Minutes with flicker					

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 94

Licensed user:

EDR217 Montgomery St.
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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 219 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (808)****Assumptions for shadow calculations**

Sunshine probability S/50 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:40 (12)	05:42	06:05 (12)	06:18	18:39 (23)	06:54	07:23 (25)	06:34	15:59 (24)	07:14
2	05:15	05:39 (12)	05:43	06:20 (12)	19:35	19:03 (23)	18:39	07:46 (25)	16:46	16:21 (24)	16:17
3	05:15	05:40 (12)	05:44	06:06 (12)	06:19	18:38 (23)	06:55	07:22 (25)	06:35	15:59 (24)	07:15
4	05:16	05:40 (12)	05:45	06:18 (12)	19:33	19:04 (23)	18:37	07:46 (25)	16:45	16:19 (24)	16:17
5	05:16	05:40 (12)	05:45	06:07 (12)	06:20	18:37 (23)	06:56	07:22 (25)	06:37	16:01 (24)	07:16
6	05:17	05:42 (12)	05:47	06:13 (12)	19:31	19:04 (23)	18:35	07:47 (25)	16:43	16:18 (24)	16:17
7	05:18	05:42 (12)	05:48		06:22	18:36 (23)	06:58	07:21 (25)	06:38	16:01 (24)	07:17
8	05:18	05:43 (12)	05:50		06:23	18:36 (23)	06:59	07:20 (25)	06:40	16:03 (24)	07:18
9	05:19	05:44 (12)	05:51		06:24	18:36 (23)	07:00	07:21 (25)	06:41	16:04 (24)	07:19
10	05:20	05:44 (12)	05:52		06:25	18:35 (23)	07:01	07:23 (25)	06:42	16:06 (24)	07:20
11	05:21	05:45 (12)	05:53		06:26	18:35 (23)	07:03	07:24 (25)	06:44	16:09 (24)	07:21
12	05:22	05:46 (12)	05:54		06:27	18:35 (23)	07:04	07:25 (25)	06:45	16:11 (24)	07:22
13	05:22	05:47 (12)	05:55		06:28	18:34 (23)	07:05	07:26 (25)	06:46	16:12 (24)	07:23
14	05:23	05:48 (12)	05:57		06:29	18:34 (23)	07:06	07:27 (25)	06:47	16:13 (24)	07:24
15	05:24	05:49 (12)	05:58		06:30	18:33 (23)	07:07	07:28 (25)	06:48	16:14 (24)	07:25
16	05:25	05:50 (12)	06:00		06:31	18:32 (23)	07:08	07:29 (25)	06:49	16:15 (24)	07:26
17	05:26	05:51 (12)	06:01		06:32	18:31 (23)	07:09	07:30 (25)	06:50	16:16 (24)	07:27
18	05:27	05:52 (12)	06:02		06:33	18:30 (23)	07:10	07:31 (25)	06:51	16:17 (24)	07:28
19	05:28	05:53 (12)	06:03		06:34	18:29 (23)	07:11	07:32 (25)	06:52	16:18 (24)	07:29
20	05:29	05:54 (12)	06:04		06:35	18:28 (23)	07:12	07:33 (25)	06:53	16:19 (24)	07:30
21	05:30	05:55 (12)	06:05		06:36	18:27 (23)	07:13	07:34 (25)	06:54	16:20 (24)	07:31
22	05:31	05:56 (12)	06:06		06:37	18:26 (23)	07:14	07:35 (25)	06:55	16:21 (24)	07:32
23	05:32	05:57 (12)	06:07		06:38	18:25 (23)	07:15	07:36 (25)	06:56	16:22 (24)	07:33
24	05:33	05:58 (12)	06:08		06:39	18:24 (23)	07:16	07:37 (25)	06:57	16:23 (24)	07:34
25	05:34	05:59 (12)	06:09		06:40	18:23 (23)	07:17	07:38 (25)	06:58	16:24 (24)	07:35
26	05:35	06:00 (12)	06:10		06:41	18:22 (23)	07:18	07:39 (25)	06:59	16:25 (24)	07:36
27	05:36	06:01 (12)	06:11		06:42	18:21 (23)	07:19	07:40 (25)	07:00	16:26 (24)	07:37
28	05:37	06:02 (12)	06:12		06:43	18:20 (23)	07:20	07:41 (25)	07:01	16:27 (24)	07:38
29	05:38	06:03 (12)	06:13		06:44	18:19 (23)	07:21	07:42 (25)	07:02	16:28 (24)	07:39
30	05:39	06:04 (12)	06:14		06:45	18:18 (23)	07:22	07:43 (25)	07:03	16:29 (24)	07:40
31	05:40	06:05 (12)	06:15		06:46	18:17 (23)	07:23	07:44 (25)	07:04	16:30 (24)	07:41
Potential sun hours	472	436	376	341	288	275	896	896	896	896	896
Total, worst case	1296	107	372	529	209	896	896	896	896	896	896
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.33	0.33	0.33	0.33	0.33	0.33
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.79	0.73	0.69	0.72	0.79	0.78	0.78	0.78	0.78	0.78	0.78
Total reduction	0.51	0.43	0.37	0.34	0.24	0.26	0.26	0.26	0.26	0.26	0.26
Total, real	656	47	138	180	51	232	232	232	232	232	232

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 95

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 220 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (809)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:11 (28)	07:17		06:36		06:39	18:46 (23)	05:48		05:14
	16:26	28	15:39 (28)	17:04			19:24	19:01 (23)	20:00		06:27 (12)
2	07:35		15:11 (28)	07:16	16:37 (24)	06:34	06:37	18:44 (23)	05:46	20:34	06:27 (12)
	16:27	29	15:40 (28)	17:06	16:40 (24)	17:45	19:25	19:02 (23)	20:01	05:14	05:37 (12)
3	07:35		15:12 (28)	07:15	16:34 (24)	06:32	06:53 (25)	18:42 (23)	05:45	20:35	06:27 (12)
	16:28	28	15:40 (28)	17:07	16:42 (24)	17:46	07:01 (25)	19:03 (23)	20:02	05:13	05:37 (12)
4	07:35		15:13 (28)	07:14	16:31 (24)	06:31	06:51 (25)	18:42 (23)	05:43	20:36	06:27 (12)
	16:29	27	15:40 (28)	17:08	16:42 (24)	17:48	07:03 (25)	19:05 (23)	20:04	05:13	05:36 (12)
5	07:35		15:14 (28)	07:12	16:30 (24)	06:29	06:49 (25)	18:41 (23)	05:42	20:37	06:27 (12)
	16:30	27	15:41 (28)	17:10	16:44 (24)	17:49	07:04 (25)	19:06 (23)	20:05	05:12	05:37 (12)
6	07:35		15:15 (28)	07:11	16:30 (24)	06:27	06:48 (25)	18:40 (23)	05:40	20:38	06:27 (12)
	16:31	26	15:41 (28)	17:11	16:46 (24)	17:50	07:06 (25)	19:07 (23)	20:06	05:12	05:37 (12)
7	07:34		15:16 (28)	07:10	16:28 (24)	06:25	06:46 (25)	18:40 (23)	05:39	20:39	06:28 (12)
	16:32	25	15:41 (28)	17:13	16:47 (24)	17:52	07:06 (25)	19:08 (23)	20:07	05:11	05:36 (12)
8	07:34		15:16 (28)	07:09	16:28 (24)	07:24	07:44 (25)	18:39 (23)	05:38	20:39	06:27 (12)
	16:33	25	15:41 (28)	17:14	16:49 (24)	18:53	08:06 (25)	19:08 (23)	20:09	05:11	05:37 (12)
9	07:34		15:17 (28)	07:07	16:28 (24)	07:22	07:42 (25)	18:39 (23)	05:36	20:40	06:28 (12)
	16:34	24	15:41 (28)	17:16	16:51 (24)	18:54	08:06 (25)	19:08 (23)	20:10	05:11	05:38 (12)
10	07:34		15:19 (28)	07:06	16:27 (24)	07:20	07:41 (25)	18:39 (23)	05:35	20:41	06:29 (12)
	16:35	22	15:41 (28)	17:17	16:52 (24)	18:55	08:06 (25)	19:08 (23)	20:11	05:10	05:37 (12)
11	07:33		15:19 (28)	07:04	16:27 (24)	07:18	07:40 (25)	18:39 (23)	05:34	20:41	06:29 (12)
	16:36	21	15:40 (28)	17:18	16:54 (24)	18:57	08:05 (25)	19:07 (23)	20:12	05:10	05:37 (12)
12	07:33		15:21 (28)	07:03	16:27 (24)	07:16	07:41 (25)	18:39 (23)	05:33	20:42	06:28 (12)
	16:37	19	15:40 (28)	17:20	16:55 (24)	18:58	08:05 (25)	19:06 (23)	20:13	05:10	05:37 (12)
13	07:33		15:22 (28)	07:02	16:27 (24)	07:14	07:41 (25)	18:40 (23)	05:31	20:42	06:29 (12)
	16:39	17	15:39 (28)	17:21	16:56 (24)	18:59	08:05 (25)	19:05 (23)	20:15	05:10	05:38 (12)
14	07:32		15:24 (28)	07:00	16:27 (24)	07:13	07:42 (25)	18:41 (23)	05:30	20:43	06:29 (12)
	16:40	15	15:39 (28)	17:23	16:55 (24)	19:01	08:03 (25)	19:04 (23)	20:16	05:10	05:38 (12)
15	07:32		15:26 (28)	06:59	16:28 (24)	07:11	07:42 (25)	18:42 (23)	05:29	20:44	06:29 (12)
	16:41	11	15:37 (28)	17:24	16:55 (24)	19:02	08:02 (25)	19:02 (23)	20:17	05:10	05:38 (12)
16	07:31		15:29 (28)	06:57	16:27 (24)	07:09	07:43 (25)	18:43 (23)	05:28	20:45	06:29 (12)
	16:42	5	15:34 (28)	17:25	16:55 (24)	19:03	08:00 (25)	19:00 (23)	20:18	05:10	05:39 (12)
17	07:30			06:56	16:29 (24)	07:07	07:45 (25)	18:46 (23)	05:27	20:45	06:29 (12)
	16:44		17:27	25	16:54 (24)	19:05	07:57 (25)	20:19	31	06:20 (12)	05:39 (12)
18	07:30		06:54		16:29 (24)	07:05	07:50 (25)	06:09		05:48 (12)	05:40 (12)
	16:45		17:28	24	16:53 (24)	19:06	07:52 (25)	19:45	20:20	06:21 (12)	05:40 (12)
19	07:29		06:52		16:31 (24)	07:03		06:07	05:25	05:47 (12)	05:40 (12)
	16:46		17:30	22	16:53 (24)	19:07		19:46	20:21	06:22 (12)	05:40 (12)
20	07:28		06:51		16:32 (24)	07:01		06:05	05:24	05:46 (12)	05:40 (12)
	16:48		17:31	19	16:51 (24)	19:08		19:47	20:22	06:22 (12)	05:40 (12)
21	07:28		06:49		16:33 (24)	07:00		06:03	05:23	05:45 (12)	05:40 (12)
	16:49		17:32	16	16:49 (24)	19:10		19:49	20:24	06:23 (12)	05:40 (12)
22	07:27		06:48		16:36 (24)	06:58		06:02	05:22	05:44 (12)	05:40 (12)
	16:50		17:34	11	16:47 (24)	19:11		19:50	20:25	06:23 (12)	05:40 (12)
23	07:26		06:46			06:56		06:00	05:21	05:44 (12)	05:40 (12)
	16:52		17:35			19:12		19:51	20:26	06:24 (12)	05:40 (12)
24	07:25		06:44			06:54		05:58	05:20	05:43 (12)	05:41 (12)
	16:53		17:37			19:13		19:52	20:27	06:24 (12)	05:41 (12)
25	07:24		06:43			06:52		05:57	05:19	05:42 (12)	05:41 (12)
	16:54		17:38			19:15		19:54	20:28	06:25 (12)	05:41 (12)
26	07:23		06:41			06:50		05:55	05:18	05:41 (12)	05:41 (12)
	16:56		17:39			19:16		19:55	20:29	06:25 (12)	05:41 (12)
27	07:22		06:39			06:48		05:54	05:18	05:41 (12)	05:41 (12)
	16:57		17:41			19:17		19:56	20:30	06:26 (12)	05:41 (12)
28	07:21		06:38			06:46		05:52	05:17	05:40 (12)	05:41 (12)
	16:58		17:42			19:19		19:57	20:31	06:26 (12)	05:41 (12)
29	07:20					06:45		05:51	05:16	05:39 (12)	05:42 (12)
	17:00					19:20		19:59	20:32	06:25 (12)	05:42 (12)
30	07:19					06:43	18:52 (23)	05:49	05:15	05:39 (12)	05:42 (12)
	17:01					19:21	18:59 (23)	20:00	20:33	06:26 (12)	05:42 (12)
31	07:18					06:41	18:48 (23)		05:15	05:38 (12)	
	17:03					19:22	19:00 (23)		20:34	06:26 (12)	
Potential sun hours	286		291		369		404		459	466	
Total, worst case		349		424		308		396		792	1519
Sun reduction		0.41		0.48		0.51		0.49		0.56	0.59
Oper. time red.		1.00		1.00		1.00		1.00		1.00	1.00
Wind dir. red.		0.78		0.79		0.65		0.69		0.79	0.79
Total reduction		0.32		0.38		0.33		0.34		0.44	0.47
Total, real		112		161		103		134		350	708

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 220 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (809)****Assumptions for shadow calculations**

Sunshine probability S/50 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42 (12)	05:42	06:05 (12)	06:18	18:38 (23)	06:54	07:20 (25)	06:34	15:57 (24)	07:14
2	05:15	06:33 (12)	05:43	06:25 (12)	19:35	18:37 (23)	06:55	07:44 (25)	16:46	16:21 (24)	16:17
3	05:15	06:33 (12)	05:44	06:23 (12)	19:33	18:37 (23)	06:56	07:44 (25)	16:45	15:57 (24)	16:17
4	05:16	06:33 (12)	05:45	06:21 (12)	19:31	18:37 (23)	06:56	07:44 (25)	16:43	15:58 (24)	16:17
5	05:16	06:33 (12)	05:46	06:19 (12)	19:30	18:36 (23)	06:58	07:44 (25)	16:42	15:58 (24)	16:17
6	05:17	06:34 (12)	05:47	06:10 (12)	19:28	18:37 (23)	06:59	07:44 (25)	16:41	15:58 (24)	16:17
7	05:18	06:34 (12)	05:48	06:15 (12)	19:24	18:36 (23)	07:00	07:44 (25)	16:40	15:58 (24)	16:17
8	05:18	06:34 (12)	05:49	06:10 (12)	19:24	18:36 (23)	07:01	07:44 (25)	16:39	15:58 (24)	16:17
9	05:19	06:34 (12)	05:50	06:09 (12)	19:22	18:36 (23)	07:02	07:44 (25)	16:38	15:58 (24)	16:17
10	05:20	06:34 (12)	05:51	06:09 (12)	19:22	18:36 (23)	07:03	07:44 (25)	16:37	15:58 (24)	16:17
11	05:21	06:34 (12)	05:52	06:09 (12)	19:22	18:36 (23)	07:04	07:44 (25)	16:36	15:58 (24)	16:17
12	05:22	06:34 (12)	05:53	06:09 (12)	19:22	18:36 (23)	07:05	07:44 (25)	16:35	15:58 (24)	16:17
13	05:22	06:34 (12)	05:54	06:09 (12)	19:22	18:36 (23)	07:06	07:44 (25)	16:34	15:58 (24)	16:17
14	05:23	06:34 (12)	05:55	06:09 (12)	19:22	18:36 (23)	07:07	07:44 (25)	16:33	15:58 (24)	16:17
15	05:24	06:34 (12)	05:56	06:09 (12)	19:22	18:36 (23)	07:08	07:44 (25)	16:32	15:58 (24)	16:17
16	05:25	06:34 (12)	05:57	06:09 (12)	19:22	18:36 (23)	07:09	07:44 (25)	16:31	15:58 (24)	16:17
17	05:26	06:34 (12)	05:58	06:09 (12)	19:22	18:36 (23)	07:10	07:44 (25)	16:30	15:58 (24)	16:17
18	05:27	06:34 (12)	05:59	06:09 (12)	19:22	18:36 (23)	07:11	07:44 (25)	16:29	15:58 (24)	16:17
19	05:28	06:34 (12)	06:00	06:09 (12)	19:22	18:36 (23)	07:12	07:44 (25)	16:28	15:58 (24)	16:17
20	05:29	06:34 (12)	06:01	06:09 (12)	19:22	18:36 (23)	07:13	07:44 (25)	16:27	15:58 (24)	16:17
21	05:30	06:34 (12)	06:02	06:09 (12)	19:22	18:36 (23)	07:14	07:44 (25)	16:26	15:58 (24)	16:17
22	05:31	06:34 (12)	06:03	06:09 (12)	19:22	18:36 (23)	07:15	07:44 (25)	16:25	15:58 (24)	16:17
23	05:32	06:34 (12)	06:04	06:09 (12)	19:22	18:36 (23)	07:16	07:44 (25)	16:24	15:58 (24)	16:17
24	05:33	06:34 (12)	06:05	06:09 (12)	19:22	18:36 (23)	07:17	07:44 (25)	16:23	15:58 (24)	16:17
25	05:34	06:34 (12)	06:06	06:09 (12)	19:22	18:36 (23)	07:18	07:44 (25)	16:22	15:58 (24)	16:17
26	05:35	06:34 (12)	06:07	06:09 (12)	19:22	18:36 (23)	07:19	07:44 (25)	16:21	15:58 (24)	16:17
27	05:36	06:34 (12)	06:08	06:09 (12)	19:22	18:36 (23)	07:20	07:44 (25)	16:20	15:58 (24)	16:17
28	05:37	06:34 (12)	06:09	06:09 (12)	19:22	18:36 (23)	07:21	07:44 (25)	16:19	15:58 (24)	16:17
29	05:38	06:34 (12)	06:10	06:09 (12)	19:22	18:36 (23)	07:22	07:44 (25)	16:18	15:58 (24)	16:17
30	05:39	06:34 (12)	06:11	06:09 (12)	19:22	18:36 (23)	07:23	07:44 (25)	16:17	15:58 (24)	16:17
31	05:40	06:34 (12)	06:12	06:09 (12)	19:22	18:36 (23)	07:24	07:44 (25)	16:16	15:58 (24)	16:17
Potential sun hours	472	436	376	341	288	275	881				
Total, worst case	1312	189	379	496	203	881					
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.33					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.79	0.73	0.68	0.73	0.79	0.78					
Total reduction	0.51	0.44	0.37	0.34	0.24	0.26					
Total, real	663	82	140	171	50	227					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 221 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (810)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	14:48 (28)	07:17		06:36	06:39		05:48		18:52 (23)	05:14
	16:26	31	15:19 (28)	17:04		17:43	19:24		20:00	34	19:26 (23)
2	07:35		14:49 (28)	07:16		06:34	06:37		05:46		18:51 (23)
	16:27	30	15:19 (28)	17:06		17:45	19:25		20:01	34	19:25 (23)
3	07:35		14:50 (28)	07:15	16:34 (24)	06:32	06:35		05:45		18:52 (23)
	16:28	29	15:19 (28)	17:07	8	16:42 (24)	17:46		20:02	32	19:24 (23)
4	07:35		14:51 (28)	07:14		16:30 (24)	06:31		05:43		18:52 (23)
	16:29	29	15:20 (28)	17:08	12	16:42 (24)	17:48		20:04	31	19:23 (23)
5	07:35		14:52 (28)	07:12		16:28 (24)	06:29		05:42		18:53 (23)
	16:30	28	15:20 (28)	17:10	16	16:44 (24)	17:49		20:05	29	19:22 (23)
6	07:35		14:53 (28)	07:11		16:27 (24)	06:27		05:40		18:55 (23)
	16:31	27	15:20 (28)	17:11	19	16:46 (24)	17:50		20:06	27	19:22 (23)
7	07:34		14:55 (28)	07:10		16:25 (24)	06:25		05:39		18:56 (23)
	16:32	25	15:20 (28)	17:13	22	16:47 (24)	17:52		20:07	25	19:21 (23)
8	07:34		14:55 (28)	07:09		16:24 (24)	07:24		05:38		18:57 (23)
	16:33	24	15:19 (28)	17:14	25	16:49 (24)	18:53		20:09	22	19:19 (23)
9	07:34		14:57 (28)	07:07		16:24 (24)	07:22		05:36		18:58 (23)
	16:34	22	15:19 (28)	17:16	27	16:51 (24)	18:54		20:10	19	19:17 (23)
10	07:34		14:59 (28)	07:06		16:22 (24)	07:20		05:35		05:57 (12)
	16:35	19	15:18 (28)	17:17	30	16:52 (24)	18:55		20:11	18	19:15 (23)
11	07:33		15:00 (28)	07:04		16:22 (24)	07:18		05:34		05:56 (12)
	16:36	17	15:17 (28)	17:18	32	16:54 (24)	18:57		20:12	15	19:12 (23)
12	07:33		15:03 (28)	07:03		16:21 (24)	07:16		05:33		05:54 (12)
	16:37	13	15:16 (28)	17:20	34	16:55 (24)	18:58		20:13	9	06:03 (12)
13	07:33		15:05 (28)	07:02		16:21 (24)	07:14		05:31		05:53 (12)
	16:39	9	15:14 (28)	17:21	35	16:56 (24)	18:59		20:15	12	06:05 (12)
14	07:32		07:00		16:21 (24)	07:13	06:15	19:06 (23)	05:30		05:52 (12)
	16:40		17:23	35	16:56 (24)	19:01	19:40	11	19:17 (23)	14	06:06 (12)
15	07:32		06:59		16:21 (24)	07:11	06:14		19:02 (23)	05:29	05:51 (12)
	16:41		17:24	36	16:57 (24)	19:02	19:41	16	19:18 (23)	16	06:07 (12)
16	07:31		06:57		16:20 (24)	07:09	06:12		19:00 (23)	05:28	05:50 (12)
	16:42		17:26	37	16:57 (24)	19:03	19:42	19	19:19 (23)	18	06:08 (12)
17	07:30		06:56		16:21 (24)	07:07	06:10		18:59 (23)	05:27	05:49 (12)
	16:44		17:27	36	16:57 (24)	19:05	19:44	21	19:20 (23)	19	06:08 (12)
18	07:30		06:54		16:21 (24)	07:05	06:09		18:57 (23)	05:26	05:48 (12)
	16:45		17:28	36	16:57 (24)	19:06	19:45	24	19:21 (23)	20:20	06:09 (12)
19	07:29		06:53		16:22 (24)	07:03	06:07		18:55 (23)	05:25	05:47 (12)
	16:46		17:30	35	16:57 (24)	19:07	19:46	27	19:22 (23)	20:21	06:09 (12)
20	07:28		06:51		16:22 (24)	07:01	06:05		18:55 (23)	05:24	05:46 (12)
	16:48		17:31	34	16:56 (24)	19:08	19:47	29	19:24 (23)	20:22	06:10 (12)
21	07:28		06:49		16:22 (24)	07:00	06:03		18:53 (23)	05:23	05:45 (12)
	16:49		17:33	33	16:55 (24)	19:10	19:49	32	19:25 (23)	20:24	06:10 (12)
22	07:27		06:48		16:23 (24)	06:58	06:02		18:52 (23)	05:22	05:44 (12)
	16:50		17:34	32	16:55 (24)	19:11	19:50	34	19:26 (23)	20:25	06:10 (12)
23	07:26		06:46		16:24 (24)	06:56	06:00		18:52 (23)	05:21	05:44 (12)
	16:52		17:35	30	16:54 (24)	19:12	19:51	35	19:27 (23)	20:26	06:11 (12)
24	07:25		06:44		16:24 (24)	06:54	05:59		18:51 (23)	05:20	05:43 (12)
	16:53		17:37	28	16:52 (24)	19:14	19:52	36	19:27 (23)	20:27	06:11 (12)
25	07:24		06:43		16:26 (24)	06:52	05:57		18:52 (23)	05:19	05:42 (12)
	16:54		17:38	25	16:51 (24)	19:15	19:54	36	19:28 (23)	20:28	06:11 (12)
26	07:23		06:41		16:28 (24)	06:50	05:55		18:51 (23)	05:18	05:41 (12)
	16:56		17:39	21	16:49 (24)	19:16	19:55	36	19:27 (23)	20:29	06:11 (12)
27	07:22		06:39		16:30 (24)	06:48	05:54		18:51 (23)	05:18	05:41 (12)
	16:57		17:41	16	16:46 (24)	19:17	19:56	37	19:28 (23)	20:30	06:12 (12)
28	07:22		06:38		16:33 (24)	06:46	05:52		18:51 (23)	05:17	05:40 (12)
	16:58		17:42	9	16:42 (24)	19:19	19:57	36	19:27 (23)	20:31	06:12 (12)
29	07:20					06:45	05:51		18:51 (23)	05:16	05:39 (12)
	17:00					19:20	19:59	36	19:27 (23)	20:32	06:12 (12)
30	07:19					06:43	05:49		18:51 (23)	05:15	05:39 (12)
	17:01					19:21	20:00	35	19:26 (23)	20:33	06:12 (12)
31	07:18					06:41				05:15	05:38 (12)
	17:03					19:22				20:34	06:12 (12)
Potential sun hours	286		291		369	404		459		466	
Total, worst case		303		703			500		769		1040
Sun reduction		0.41		0.48			0.49		0.56		0.59
Oper. time red.		1.00		1.00			1.00		1.00		1.00
Wind dir. red.		0.77		0.79			0.65		0.74		0.79
Total reduction		0.32		0.38			0.32		0.41		0.47
Total, real		96		267			158		319		487

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 221 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (810)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:43 (12)	05:42	06:05 (12)	06:18	06:54		06:34		15:52 (24)	07:14
2	05:15	05:42 (12)	05:43	06:06 (12)	06:19	06:55		06:35		15:53 (24)	07:15
3	05:15	05:43 (12)	05:44	06:07 (12)	06:20	06:56		06:37		15:54 (24)	07:16
4	05:16	05:42 (12)	05:45	06:08 (12)	06:22	06:58		06:38		15:55 (24)	07:17
5	05:16	05:43 (12)	05:46	06:09 (12)	06:23	06:59		06:40		15:57 (24)	07:18
6	05:17	05:43 (12)	05:47	06:10 (12)	06:24	07:00		06:41		15:58 (24)	07:19
7	05:18	05:43 (12)	05:48	06:11 (12)	06:25	07:01		06:42		16:01 (24)	07:20
8	05:18	05:43 (12)	05:50	06:12 (12)	06:26	07:03		06:44		16:04 (24)	07:21
9	05:19	05:44 (12)	05:51	06:13 (12)	06:28	07:04		06:45		16:06 (24)	07:22
10	05:20	05:44 (12)	05:52	06:14 (12)	06:29	07:05		06:46		16:08 (24)	07:23
11	05:21	05:45 (12)	05:53	06:15 (12)	06:30	07:06		06:48		16:10 (24)	07:24
12	05:22	05:46 (12)	05:54	06:16 (12)	06:31	07:08		06:49		16:12 (24)	07:25
13	05:22	05:47 (12)	05:56	06:17 (12)	06:32	07:09		06:50		16:14 (24)	07:26
14	05:23	05:48 (12)	05:57	06:18 (12)	06:33	07:10		06:52		16:16 (24)	07:27
15	05:24	05:49 (12)	05:58	06:19 (12)	06:35	07:11		06:53		16:18 (24)	07:28
16	05:25	05:49 (12)	05:59	06:20 (12)	06:36	07:13		06:55		16:20 (24)	07:29
17	05:26	05:50 (12)	06:00	06:21 (12)	06:37	07:14		06:56		16:22 (24)	07:30
18	05:27	05:51 (12)	06:01	06:22 (12)	06:38	07:15		06:57		16:24 (24)	07:31
19	05:28	05:52 (12)	06:03	06:23 (12)	06:39	07:17		06:59		16:26 (24)	07:32
20	05:29	05:53 (12)	06:04	06:24 (12)	06:41	07:18		07:00		16:28 (24)	07:33
21	05:30	05:54 (12)	06:05	06:25 (12)	06:42	07:19		07:01		16:30 (24)	07:34
22	05:31	05:55 (12)	06:06	06:26 (12)	06:43	07:21		07:02		16:32 (24)	07:35
23	05:32	05:56 (12)	06:07	06:27 (12)	06:44	07:22		07:03		16:34 (24)	07:36
24	05:33	05:57 (12)	06:09	06:28 (12)	06:45	07:23		07:04		16:36 (24)	07:37
25	05:34	05:58 (12)	06:10	06:29 (12)	06:46	07:25		07:06		16:38 (24)	07:38
26	05:35	05:59 (12)	06:11	06:30 (12)	06:48	07:26		07:08		16:40 (24)	07:39
27	05:36	06:00 (12)	06:12	06:31 (12)	06:49	07:27		07:09		16:42 (24)	07:40
28	05:37	06:01 (12)	06:13	06:32 (12)	06:50	07:29		07:10		16:44 (24)	07:41
29	05:38	06:02 (12)	06:14	06:33 (12)	06:51	07:30		07:11		16:46 (24)	07:42
30	05:39	06:03 (12)	06:16	06:34 (12)	06:53	07:31		07:12		16:48 (24)	07:43
31	05:40	06:04 (12)	06:17	06:35 (12)	06:54	07:33		07:14		16:50 (24)	07:44
Potential sun hours	472	436		376	341			288		275	
Total, worst case	892	796		556	176			938			
Sun reduction	0.64	0.60		0.47	0.31			0.33			
Oper. time red.	1.00	1.00		1.00	1.00			1.00			
Wind dir. red.	0.79	0.65		0.79	0.79			0.77			
Total reduction	0.51	0.39		0.37	0.24			0.25			
Total, real	453	310		207	43			238			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)		Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 222 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (811)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1 07:35	14:48 (28) 07:17	16:30 (24) 06:36	06:39	05:48	18:50 (23) 05:14	05:39 (12)					
2 07:35	15:14 (28) 07:04	16:38 (24) 17:43	19:24	20:00	19:22 (23) 20:34	06:15 (12)					
3 07:35	14:49 (28) 07:16	16:27 (24) 06:34	06:37	05:46	18:50 (23) 05:14	05:39 (12)					
4 07:35	15:14 (28) 07:06	16:40 (24) 17:45	19:25	20:01	19:20 (23) 20:35	06:15 (12)					
5 07:35	14:50 (28) 07:15	16:26 (24) 06:32	06:35	05:45	18:51 (23) 05:13	05:40 (12)					
6 07:35	15:14 (28) 07:07	16:42 (24) 17:46	19:26	20:02	19:20 (23) 20:36	06:15 (12)					
7 07:35	14:51 (28) 07:14	16:23 (24) 06:31	06:33	05:43	18:51 (23) 05:13	05:39 (12)					
8 07:35	15:14 (28) 07:08	16:42 (24) 17:48	19:27	20:04	19:18 (23) 20:37	06:15 (12)					
9 07:35	14:52 (28) 07:12	16:22 (24) 06:29	06:32	05:42	18:53 (23) 05:12	05:40 (12)					
10 07:35	15:14 (28) 07:10	16:44 (24) 17:49	19:29	20:05	19:17 (23) 20:38	06:15 (12)					
11 07:35	14:54 (28) 07:11	16:22 (24) 06:27	06:30	05:40	18:55 (23) 05:12	05:41 (12)					
12 07:35	15:14 (28) 07:11	16:46 (24) 17:50	19:30	20:06	19:16 (23) 20:39	06:15 (12)					
13 07:35	14:56 (28) 07:10	16:20 (24) 06:25	06:28	05:39	06:01 (12) 05:11	05:40 (12)					
14 07:35	15:14 (28) 07:13	16:47 (24) 17:52	19:31	20:07	19:14 (23) 20:39	06:15 (12)					
15 07:35	14:57 (28) 07:09	16:20 (24) 07:24	06:26	05:38	05:59 (12) 05:11	05:41 (12)					
16 07:35	15:12 (28) 07:14	16:49 (24) 18:53	19:32	20:09	19:11 (23) 20:40	06:15 (12)					
17 07:35	14:59 (28) 07:07	16:20 (24) 07:22	06:24	05:36	05:58 (12) 05:11	05:42 (12)					
18 07:35	15:12 (28) 07:16	16:51 (24) 18:54	19:34	20:10	19:07 (23) 20:41	06:15 (12)					
19 07:35	15:02 (28) 07:06	16:19 (24) 07:20	06:23	05:35	05:57 (12) 05:11	05:42 (12)					
20 07:35	15:10 (28) 07:17	16:52 (24) 18:55	19:35	20:11	06:08 (12) 20:41	06:15 (12)					
21 07:35	07:04	16:19 (24) 07:18	06:21	05:34	05:56 (12) 05:10	05:42 (12)					
22 07:35	17:18	16:54 (24) 18:57	19:36	20:12	06:09 (12) 20:42	06:14 (12)					
23 07:35	07:03	16:18 (24) 07:16	06:19	19:04 (23) 05:33	05:54 (12) 05:10	05:42 (12)					
24 07:35	17:20	16:53 (24) 18:58	19:37	19:14 (23) 20:13	06:09 (12) 20:42	06:15 (12)					
25 07:35	07:02	16:18 (24) 07:14	06:17	19:00 (23) 05:31	05:53 (12) 05:10	05:43 (12)					
26 07:35	17:21	16:54 (24) 18:59	19:39	19:15 (23) 20:15	06:10 (12) 20:43	06:15 (12)					
27 07:35	07:00	16:18 (24) 07:13	06:15	18:58 (23) 05:30	05:52 (12) 05:10	05:43 (12)					
28 07:35	17:23	16:54 (24) 19:01	19:40	19:17 (23) 20:16	06:11 (12) 20:44	06:15 (12)					
29 07:35	06:59	16:18 (24) 07:11	06:14	18:56 (23) 05:29	05:51 (12) 05:10	05:43 (12)					
30 07:35	17:24	16:54 (24) 19:02	19:41	19:18 (23) 20:17	06:12 (12) 20:44	06:15 (12)					
31 07:35	06:57	16:18 (24) 07:09	06:12	18:54 (23) 05:28	05:50 (12) 05:10	05:44 (12)					
32 07:35	17:26	16:54 (24) 19:03	19:42	19:19 (23) 20:18	06:12 (12) 20:45	06:15 (12)					
33 07:35	06:56	16:19 (24) 07:07	06:10	18:54 (23) 05:27	05:49 (12) 05:10	05:44 (12)					
34 07:35	17:27	16:54 (24) 19:05	19:44	19:20 (23) 20:19	06:13 (12) 20:45	06:15 (12)					
35 07:35	06:54	16:19 (24) 07:05	06:09	18:52 (23) 05:26	05:48 (12) 05:10	05:44 (12)					
36 07:35	17:28	16:53 (24) 19:06	19:45	19:21 (23) 20:20	06:13 (12) 20:45	06:15 (12)					
37 07:35	06:53	16:20 (24) 07:03	06:07	18:51 (23) 05:25	05:47 (12) 05:10	05:45 (12)					
38 07:35	17:30	16:53 (24) 19:07	19:46	19:22 (23) 20:21	06:13 (12) 20:46	06:16 (12)					
39 07:35	06:51	16:20 (24) 07:01	06:05	18:51 (23) 05:24	05:46 (12) 05:10	05:45 (12)					
40 07:35	17:31	16:52 (24) 19:08	19:47	19:24 (23) 20:22	06:14 (12) 20:46	06:16 (12)					
41 07:35	06:49	16:20 (24) 07:00	06:03	18:50 (23) 05:23	05:45 (12) 05:10	05:45 (12)					
42 07:35	17:33	16:51 (24) 19:10	19:49	19:25 (23) 20:24	06:14 (12) 20:46	06:16 (12)					
43 07:35	06:48	16:22 (24) 06:58	06:02	18:49 (23) 05:22	05:44 (12) 05:11	05:45 (12)					
44 07:35	17:34	16:50 (24) 19:11	19:50	19:25 (23) 20:25	06:14 (12) 20:47	06:16 (12)					
45 07:35	06:46	16:23 (24) 06:56	06:00	18:49 (23) 05:21	05:44 (12) 05:11	05:45 (12)					
46 07:35	17:35	16:49 (24) 19:12	19:51	19:25 (23) 20:26	06:15 (12) 20:47	06:16 (12)					
47 07:35	06:44	16:24 (24) 06:54	05:59	18:48 (23) 05:20	05:43 (12) 05:11	05:46 (12)					
48 07:35	17:37	16:47 (24) 19:14	19:52	19:25 (23) 20:27	06:15 (12) 20:47	06:17 (12)					
49 07:35	06:43	16:27 (24) 06:52	05:57	18:49 (23) 05:19	05:42 (12) 05:11	05:46 (12)					
50 07:35	17:38	16:45 (24) 19:15	19:54	19:25 (23) 20:28	06:15 (12) 20:47	06:17 (12)					
51 07:35	06:41	16:30 (24) 06:50	05:55	18:48 (23) 05:18	05:41 (12) 05:12	05:46 (12)					
52 07:35	17:39	16:42 (24) 19:16	19:55	19:24 (23) 20:29	06:14 (12) 20:47	06:17 (12)					
53 07:35	06:39		06:48	18:49 (23) 05:18	05:41 (12) 05:12	05:46 (12)					
54 07:35	17:41		19:17	19:24 (23) 20:30	06:15 (12) 20:47	06:18 (12)					
55 07:35	06:38		06:46	18:48 (23) 05:17	05:40 (12) 05:13	05:46 (12)					
56 07:35	17:42		19:19	19:23 (23) 20:31	06:15 (12) 20:47	06:18 (12)					
57 07:35			06:45	18:49 (23) 05:16	05:39 (12) 05:13	05:47 (12)					
58 07:35			19:20	19:23 (23) 20:32	06:15 (12) 20:47	06:19 (12)					
59 07:35			06:43	18:49 (23) 05:15	05:39 (12) 05:14	05:46 (12)					
60 07:35			19:21	19:22 (23) 20:33	06:15 (12) 20:47	06:19 (12)					
61 07:35			06:41		05:38 (12)						
62 07:35			19:22		20:34	06:15 (12)					
Potential sun hours	286	291	369	404	459	466					
Total, worst case		194	708	563	798	978					
Sun reduction	0.41		0.48	0.49	0.56	0.59					
Oper. time red.	1.00		1.00	1.00	1.00	1.00					
Wind dir. red.	0.77		0.79	0.65	0.76	0.79					
Total reduction	0.31		0.38	0.32	0.42	0.47					
Total, real	61		269	180	338	457					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 100

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 222 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (811)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:47 (12)	05:42	06:05 (12)	06:18	06:54		06:34		15:48 (24)	07:14
2	05:15	05:46 (12)	05:43	06:06 (12)	06:19	06:55		06:35		15:49 (24)	07:15
3	05:15	05:47 (12)	05:44	06:07 (12)	06:20	06:56		06:37		15:50 (24)	07:16
4	05:16	05:46 (12)	05:45	06:09 (12)	06:22	06:58		06:38		15:50 (24)	07:17
5	05:16	05:47 (12)	05:46	06:10 (12)	06:23	06:59		06:40		15:52 (24)	07:18
6	05:17	05:47 (12)	05:47	06:11 (12)	06:24	07:00		06:41		15:52 (24)	07:19
7	05:18	05:46 (12)	05:48	06:12 (12)	06:25	07:01		06:42		15:54 (24)	07:20
8	05:18	05:47 (12)	05:50	06:13 (12)	06:26	07:03		06:44		15:56 (24)	07:21
9	05:19	05:47 (12)	05:51	06:14 (12)	06:28	07:04		06:45		15:58 (24)	07:22
10	05:20	05:46 (12)	05:52	06:15 (12)	06:29	07:05		06:46		16:00 (24)	07:23
11	05:21	05:46 (12)	05:53	06:16 (12)	06:30	07:06		06:48		16:02 (24)	07:24
12	05:22	05:47 (12)	05:54	06:17 (12)	06:31	07:08		06:49		16:04 (24)	07:25
13	05:22	05:47 (12)	05:56	06:18 (12)	06:32	07:09		06:50		16:06 (24)	07:26
14	05:23	05:48 (12)	05:57	06:19 (12)	06:33	07:10		06:52		16:08 (24)	07:27
15	05:24	05:49 (12)	05:58	06:20 (12)	06:35	07:11		06:53		16:10 (24)	07:28
16	05:25	05:49 (12)	05:59	06:21 (12)	06:36	07:13		06:55		16:12 (24)	07:29
17	05:26	05:50 (12)	06:00	06:22 (12)	06:37	07:14		06:57		16:14 (24)	07:30
18	05:27	05:51 (12)	06:01	06:23 (12)	06:38	07:15		06:58		16:16 (24)	07:31
19	05:28	05:52 (12)	06:03	06:24 (12)	06:39	07:17		06:59		16:18 (24)	07:32
20	05:29	05:53 (12)	06:04	06:25 (12)	06:41	07:18		07:00		16:20 (24)	07:33
21	05:30	05:54 (12)	06:05	06:26 (12)	06:42	07:19		07:01		16:22 (24)	07:34
22	05:31	05:55 (12)	06:06	06:27 (12)	06:43	07:21		07:02		16:24 (24)	07:35
23	05:32	05:56 (12)	06:07	06:28 (12)	06:44	07:22		07:03		16:26 (24)	07:36
24	05:33	05:57 (12)	06:09	06:29 (12)	06:45	07:23		07:04		16:28 (24)	07:37
25	05:34	05:58 (12)	06:10	06:30 (12)	06:46	07:24		07:05		16:30 (24)	07:38
26	05:35	05:59 (12)	06:11	06:31 (12)	06:47	07:25		07:06		16:32 (24)	07:39
27	05:36	06:00 (12)	06:12	06:32 (12)	06:48	07:26		07:07		16:34 (24)	07:40
28	05:37	06:01 (12)	06:13	06:33 (12)	06:49	07:27		07:08		16:36 (24)	07:41
29	05:38	06:02 (12)	06:14	06:34 (12)	06:50	07:28		07:09		16:38 (24)	07:42
30	05:39	06:03 (12)	06:16	06:35 (12)	06:51	07:30		07:11		16:40 (24)	07:43
31	05:40	06:04 (12)	06:17	06:36 (12)	06:53	07:31		07:12		16:42 (24)	07:44
Potential sun hours	472	436	376	341	502	218	775				
Total, worst case	949	819	502	218	775						
Sun reduction	0.64	0.60	0.47	0.31	0.33						
Oper. time red.	1.00	1.00	1.00	1.00	1.00						
Wind dir. red.	0.79	0.66	0.79	0.79	0.77						
Total reduction	0.51	0.40	0.37	0.25	0.25						
Total, real	481	324	187	54	196						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 101

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 223 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (812)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June						
1	07:35	14:53 (28)	07:17	16:30 (24)	06:36	06:39		05:48		18:53 (23)	05:14	05:39 (12)				
	16:26	27	15:20 (28)	17:04	8	16:38 (24)	17:43	19:24	20:00	16	19:09 (23)	20:34	39	06:18 (12)		
2	07:35		14:54 (28)	07:16		16:28 (24)	06:34	06:37	05:46		18:55 (23)	05:14		05:39 (12)		
	16:27	26	15:20 (28)	17:06	12	16:40 (24)	17:45	19:25	20:01	11	19:06 (23)	20:35	39	06:18 (12)		
3	07:35		14:55 (28)	07:15		16:26 (24)	06:32	06:35	05:45			05:13		05:40 (12)		
	16:28	25	15:20 (28)	17:07	16	16:42 (24)	17:46	19:26	20:02			05:36	38	06:18 (12)		
4	07:35		14:56 (28)	07:14		16:24 (24)	06:31	06:33	05:43			05:13		05:39 (12)		
	16:29	24	15:20 (28)	17:08	18	16:42 (24)	17:48	19:27	20:04			20:37	38	06:17 (12)		
5	07:35		14:58 (28)	07:12		16:23 (24)	06:29	06:32	05:42			05:12		05:40 (12)		
	16:30	22	15:20 (28)	17:10	21	16:44 (24)	17:49	19:29	20:05			20:38	38	06:18 (12)		
6	07:35		14:59 (28)	07:11		16:23 (24)	06:27	06:30	05:40			05:12		05:41 (12)		
	16:31	21	15:20 (28)	17:11	23	16:46 (24)	17:50	19:30	20:06			20:39	37	06:18 (12)		
7	07:34		15:01 (28)	07:10		16:21 (24)	06:25	06:28	05:39			05:11		05:40 (12)		
	16:32	19	15:20 (28)	17:13	26	16:47 (24)	17:52	19:31	20:07	4	06:04 (12)	20:39	37	06:17 (12)		
8	07:34		15:01 (28)	07:09		16:21 (24)	07:24	06:26	19:02 (23)	05:38	05:59 (12)	05:11		05:41 (12)		
	16:33	18	15:19 (28)	17:14	28	16:49 (24)	18:53	19:32	7	19:09 (23)	20:09	8	06:07 (12)	20:40	37	06:18 (12)
9	07:34		15:03 (28)	07:07		16:21 (24)	07:22	06:24	18:58 (23)	05:36	05:58 (12)	05:11		05:42 (12)		
	16:34	15	15:18 (28)	17:16	30	16:51 (24)	18:54	19:34	13	19:11 (23)	20:10	11	06:09 (12)	20:41	36	06:18 (12)
10	07:34		15:06 (28)	07:06		16:20 (24)	07:20	06:23	18:55 (23)	05:35	05:57 (12)	05:11		05:42 (12)		
	16:35	11	15:17 (28)	17:17	32	16:52 (24)	18:55	19:35	17	19:12 (23)	20:11	13	06:10 (12)	20:41	36	06:18 (12)
11	07:33		15:09 (28)	07:04		16:20 (24)	07:18	06:21	18:53 (23)	05:34	05:56 (12)	05:10		05:42 (12)		
	16:36	5	15:14 (28)	17:18	34	16:54 (24)	18:57	19:36	20	19:13 (23)	20:12	15	06:11 (12)	20:42	35	06:17 (12)
12	07:33		07:03			16:19 (24)	07:16	06:19		18:51 (23)	05:33		05:54 (12)	05:10		05:42 (12)
	16:37		17:20	34	16:53 (24)	18:58		19:37	23	19:14 (23)	20:13	18	06:12 (12)	20:42	36	06:18 (12)
13	07:33		07:02			16:20 (24)	07:14	06:17		18:49 (23)	05:31		05:53 (12)	05:10		05:42 (12)
	16:39		17:21	34	16:54 (24)	18:59		19:39	26	19:15 (23)	20:15	20	06:13 (12)	20:43	36	06:18 (12)
14	07:32		07:00			16:19 (24)	07:13	06:15		18:49 (23)	05:30		05:52 (12)	05:10		05:43 (12)
	16:40		17:23	34	16:53 (24)	19:01		19:40	28	19:17 (23)	20:16	21	06:13 (12)	20:44	35	06:18 (12)
15	07:32		06:59			16:20 (24)	07:11	06:14		18:48 (23)	05:29		05:51 (12)	05:10		05:43 (12)
	16:41		17:24	34	16:54 (24)	19:02		19:41	30	19:18 (23)	20:17	23	06:14 (12)	20:44	35	06:18 (12)
16	07:31		06:57			16:20 (24)	07:09	06:12		18:47 (23)	05:28		05:50 (12)	05:10		05:43 (12)
	16:42		17:26	33	16:53 (24)	19:03		19:42	32	19:19 (23)	20:18	25	06:15 (12)	20:45	35	06:18 (12)
17	07:30		06:56			16:21 (24)	07:07	06:10		18:47 (23)	05:27		05:49 (12)	05:10		05:44 (12)
	16:44		17:27	32	16:53 (24)	19:05		19:44	33	19:20 (23)	20:19	26	06:15 (12)	20:45	34	06:18 (12)
18	07:30		06:54			16:21 (24)	07:05	06:09		18:46 (23)	05:26		05:48 (12)	05:10		05:44 (12)
	16:45		17:28	31	16:52 (24)	19:06		19:45	34	19:20 (23)	20:20	28	06:16 (12)	20:45	34	06:18 (12)
19	07:29		06:53			16:22 (24)	07:03	06:07		18:45 (23)	05:25		05:47 (12)	05:10		05:45 (12)
	16:46		17:30	30	16:52 (24)	19:07		19:46	35	19:20 (23)	20:21	29	06:16 (12)	20:46	34	06:19 (12)
20	07:28		06:51			16:23 (24)	07:01	06:05		18:46 (23)	05:24		05:46 (12)	05:10		05:45 (12)
	16:48		17:31	28	16:51 (24)	19:08		19:47	34	19:20 (23)	20:22	30	06:16 (12)	20:46	34	06:19 (12)
21	07:28		06:49			16:23 (24)	07:00	06:03		18:45 (23)	05:23		05:45 (12)	05:10		05:45 (12)
	16:49		17:33	27	16:50 (24)	19:10		19:49	35	19:20 (23)	20:24	31	06:16 (12)	20:46	34	06:19 (12)
22	07:27		06:48			16:25 (24)	06:58	06:02		18:45 (23)	05:22		05:44 (12)	05:11		05:45 (12)
	16:50		17:34	24	16:49 (24)	19:11		19:50	34	19:19 (23)	20:25	32	06:16 (12)	20:47	34	06:19 (12)
23	07:26		06:46			16:27 (24)	06:56	06:00		18:46 (23)	05:21		05:44 (12)	05:11		05:45 (12)
	16:52		17:35	20	16:47 (24)	19:12		19:51	33	19:19 (23)	20:26	33	06:17 (12)	20:47	34	06:19 (12)
24	07:25		06:44			16:28 (24)	06:54	05:59		18:45 (23)	05:20		05:43 (12)	05:11		05:46 (12)
	16:53		17:37	16	16:44 (24)	19:14		19:52	33	19:18 (23)	20:27	34	06:17 (12)	20:47	34	06:20 (12)
25	07:24		06:43			16:33 (24)	06:52	05:57		18:46 (23)	05:19		05:42 (12)	05:11		05:46 (12)
	16:54		17:38	7	16:40 (24)	19:15		19:54	32	19:18 (23)	20:28	35	06:17 (12)	20:47	34	06:20 (12)
26	07:23		06:41				06:50	05:55		18:47 (23)	05:18		05:41 (12)	05:12		05:46 (12)
	16:56		17:39				19:16	19:55	29	19:16 (23)	20:29	36	06:17 (12)	20:47	34	06:20 (12)
27	07:22		06:39				06:48	05:54		18:48 (23)	05:18		05:41 (12)	05:12		05:46 (12)
	16:57		17:41				19:17	19:56	28	19:16 (23)	20:30	37	06:18 (12)	20:47	35	06:21 (12)
28	07:22		06:38				06:46	05:52		18:48 (23)	05:17		05:40 (12)	05:13		05:46 (12)
	16:58		17:42				19:19	19:57	26	19:14 (23)	20:31	38	06:18 (12)	20:47	35	06:21 (12)
29	07:20						06:45	05:51		18:50 (23)	05:16		05:39 (12)	05:13		05:47 (12)
	17:00						19:20	19:59	23	19:13 (23)	20:32	38	06:17 (12)	20:47	35	06:22 (12)
30	07:19						06:43	05:49		18:51 (23)	05:15		05:39 (12)	05:14		05:46 (12)
	17:01						19:21	20:00	20	19:11 (23)	20:33	39	06:18 (12)	20:47	36	06:22 (12)
31	07:18						06:41				05:15		05:38 (12)			
	17:03						19:22				20:34	39	06:17 (12)			
Potential sun hours	286		291			369		404		459			466			
Total, worst case		213		632				625		690			1068			
Sun reduction		0.41		0.48				0.49		0.56			0.59			
Oper. time red.		1.00		1.00				1.00		1.00			1.00			
Wind dir. red.		0.77		0.79				0.66		0.79			0.79			
Total reduction		0.32		0.38				0.33		0.44			0.47			
Total, real		67		240				203		303			498			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 102

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 223 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (812)****Assumptions for shadow calculations**

Sunshine probability S/50 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:47 (12)	05:42	06:05 (12)	06:18	18:52 (23)	06:54	06:34	15:50 (24)	07:14	14:51 (28)
2	05:15	06:23 (12)	05:25	06:22 (12)	19:35	19:12 (23)	18:39	16:46	16:21 (24)	16:17	14:56 (28)
3	05:15	05:47 (12)	05:44	06:07 (12)	06:20	18:55 (23)	06:56	06:37	15:51 (24)	07:16	14:47 (28)
4	05:16	06:23 (12)	05:23	06:19 (12)	19:31	19:08 (23)	18:35	16:43	16:18 (24)	16:17	14:50 (28)
5	05:16	05:46 (12)	05:45	06:09 (12)	06:22	18:59 (23)	06:58	06:38	15:51 (24)	07:17	14:47 (28)
6	05:17	06:23 (12)	05:21	06:16 (12)	19:28	19:06 (23)	18:33	16:42	16:17 (24)	16:16	14:50 (28)
7	05:18	05:47 (12)	05:47	06:10 (12)	06:23	18:31	06:59	06:40	15:53 (24)	07:18	14:46 (28)
8	05:18	06:24 (12)	05:17	06:11 (12)	06:24	18:31	06:59	06:41	15:53 (24)	07:19	14:45 (28)
9	05:19	05:47 (12)	05:51	06:13 (12)	19:26	18:29	07:00	06:42	15:55 (24)	07:20	14:45 (28)
10	05:20	05:46 (12)	05:52	19:09 (23)	06:29	18:22	07:05	06:46	16:01 (24)	07:23	14:44 (28)
11	05:21	06:25 (12)	05:13	19:10 (23)	19:18	18:22	07:06	06:48	16:09 (24)	07:24	14:45 (28)
12	05:22	05:47 (12)	05:54	19:15 (23)	19:17	18:20	07:08	06:49	16:16	07:25	14:45 (28)
13	05:22	05:47 (12)	05:56	19:18 (23)	19:15	18:19	07:09	06:50	16:16	07:26	14:44 (28)
14	05:23	05:48 (12)	05:57	19:20 (23)	19:13	18:17	07:10	06:52	16:16	07:27	14:45 (28)
15	05:24	05:49 (12)	05:58	19:21 (23)	19:11	18:15	07:11	06:53	16:16	07:28	14:45 (28)
16	05:25	05:49 (12)	05:59	19:22 (23)	19:09	18:13	07:13	06:55	16:16	07:29	14:46 (28)
17	05:26	05:50 (12)	06:00	19:23 (23)	19:07	18:12	07:14	06:56	16:16	07:30	14:46 (28)
18	05:27	05:51 (12)	06:01	19:24 (23)	19:05	18:10	07:15	06:57	16:17	07:31	14:47 (28)
19	05:28	05:52 (12)	06:03	19:25 (23)	19:03	18:08	07:17	06:59	16:17	07:32	14:47 (28)
20	05:29	05:53 (12)	06:04	19:26 (23)	19:01	18:07	07:18	07:00	16:18	07:33	14:48 (28)
21	05:30	05:54 (12)	06:05	19:27 (23)	18:59	18:05	07:19	07:01	16:18	07:34	14:48 (28)
22	05:31	05:55 (12)	06:06	19:28 (23)	18:57	18:03	07:21	07:02	16:19	07:35	14:49 (28)
23	05:32	05:56 (12)	06:07	19:29 (23)	18:55	18:02	07:22	07:03	16:20	07:36	14:50 (28)
24	05:33	05:57 (12)	06:09	19:30 (23)	18:53	18:00	07:23	07:04	16:21	07:37	14:51 (28)
25	05:34	05:58 (12)	06:10	19:31 (23)	18:51	17:58	07:24	07:05	16:22	07:38	14:52 (28)
26	05:35	05:59 (12)	06:11	19:32 (23)	18:49	17:57	07:25	07:06	16:23	07:39	14:53 (28)
27	05:36	06:00 (12)	06:12	19:33 (23)	18:47	17:56	07:26	07:07	16:24	07:40	14:54 (28)
28	05:37	06:01 (12)	06:13	19:34 (23)	18:45	17:55	07:27	07:08	16:25	07:41	14:55 (28)
29	05:38	06:02 (12)	06:14	19:35 (23)	18:43	17:54	07:28	07:09	16:26	07:42	14:56 (28)
30	05:39	06:03 (12)	06:15	19:36 (23)	18:41	17:53	07:29	07:10	16:27	07:43	14:57 (28)
31	05:40	06:04 (12)	06:17	19:37 (23)	18:39	17:52	07:30	07:11	16:28	07:44	14:58 (28)
Potential sun hours	472	436	376	341	288	275	790				
Total, worst case	1037	662	57	430	210	790					
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.33					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.79	0.68	0.66	0.79	0.79	0.77					
Total reduction	0.51	0.41	0.36	0.37	0.25	0.25					
Total, real	525	268	20	160	52	201					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 103

Licensed user:

EDR

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US-SYRACUSE, NY 13202

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 224 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (813)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June			
1	07:35	14:54 (28)	07:17	16:19 (24)	06:36	06:39		05:48		05:14	05:46 (12)			
	16:26	17	15:11 (28)	17:04	19	16:38 (24)	17:43	19:24	20:00		20:34	35	06:21 (12)	
2	07:35	14:55 (28)	07:16	16:18 (24)	06:34	06:37		05:46		05:14	05:46 (12)			
	16:27	15	15:10 (28)	17:06	22	16:40 (24)	17:45	19:25	20:01		20:35	35	06:21 (12)	
3	07:35	14:56 (28)	07:15	16:18 (24)	06:32	06:35		05:45		05:13	05:47 (12)			
	16:28	14	15:10 (28)	17:07	24	16:42 (24)	17:46	19:26	20:02	4	06:06 (12)	05:13	05:47 (12)	
4	07:35	14:58 (28)	07:14	16:16 (24)	06:31	06:33		05:43		05:13	05:46 (12)			
	16:29	11	15:09 (28)	17:08	26	16:42 (24)	17:48	19:27	20:04	8	06:12 (12)	20:37	34	06:20 (12)
5	07:35	15:01 (28)	07:12	16:16 (24)	06:29	06:32		05:42		05:12	05:47 (12)			
	16:30	7	15:08 (28)	17:10	28	16:44 (24)	17:49	19:29	20:05	11	06:14 (12)	20:38	34	06:21 (12)
6	07:35		07:11	16:16 (24)	06:27	06:30		18:56 (23)	05:40	06:02 (12)	05:12	05:48 (12)		
	16:31		17:11	16:46 (24)	17:50	19:30	11	19:07 (23)	20:06	13	06:15 (12)	20:39	33	06:21 (12)
7	07:34		07:10	16:15 (24)	06:25	06:28		18:53 (23)	05:39	06:00 (12)	05:11	05:48 (12)		
	16:32		17:13	16:47 (24)	17:52	19:31	15	19:08 (23)	20:07	16	06:16 (12)	20:39	32	06:20 (12)
8	07:34		07:09	16:15 (24)	07:24	06:26		18:50 (23)	05:38	05:59 (12)	05:11	05:49 (12)		
	16:33		17:14	16:49 (24)	18:53	19:32	19	19:09 (23)	20:09	18	06:17 (12)	20:40	31	06:20 (12)
9	07:34		07:07	16:15 (24)	07:22	06:24		18:49 (23)	05:36	05:58 (12)	05:11	05:49 (12)		
	16:34		17:16	16:49 (24)	18:54	19:34	22	19:11 (23)	20:10	20	06:18 (12)	20:41	31	06:20 (12)
10	07:34		07:06	16:15 (24)	07:20	06:23		18:47 (23)	05:35	05:57 (12)	05:11	05:50 (12)		
	16:35		17:17	16:49 (24)	18:55	19:35	25	19:12 (23)	20:11	22	06:19 (12)	20:41	30	06:20 (12)
11	07:33		07:04	16:15 (24)	07:18	06:21		18:46 (23)	05:34	05:56 (12)	05:10	05:50 (12)		
	16:36		17:18	16:49 (24)	18:57	19:36	27	19:13 (23)	20:12	24	06:20 (12)	20:42	29	06:19 (12)
12	07:33		07:03	16:15 (24)	07:16	06:19		18:44 (23)	05:33	05:54 (12)	05:10	05:50 (12)		
	16:37		17:20	16:49 (24)	18:58	19:37	30	19:14 (23)	20:13	26	06:20 (12)	20:42	29	06:19 (12)
13	07:33		07:02	16:16 (24)	07:14	06:17		18:43 (23)	05:31	05:53 (12)	05:10	05:51 (12)		
	16:39		17:21	16:49 (24)	18:59	19:39	32	19:15 (23)	20:15	27	06:20 (12)	20:43	28	06:19 (12)
14	07:32		07:00	16:16 (24)	07:13	06:15		18:43 (23)	05:30	05:52 (12)	05:10	05:51 (12)		
	16:40		17:23	16:48 (24)	19:01	19:40	34	19:17 (23)	20:16	29	06:21 (12)	20:44	29	06:20 (12)
15	07:32		06:59	16:17 (24)	07:11	06:14		18:42 (23)	05:29	05:51 (12)	05:10	05:52 (12)		
	16:41		17:24	16:48 (24)	19:02	19:41	35	19:17 (23)	20:17	30	06:21 (12)	20:44	28	06:20 (12)
16	07:31		06:57	16:17 (24)	07:09	06:12		18:42 (23)	05:28	05:50 (12)	05:10	05:52 (12)		
	16:42		17:26	16:47 (24)	19:03	19:42	35	19:17 (23)	20:18	31	06:21 (12)	20:45	28	06:20 (12)
17	07:30		06:56	16:18 (24)	07:07	06:10		18:42 (23)	05:27	05:49 (12)	05:10	05:52 (12)		
	16:44		17:27	16:47 (24)	19:05	19:44	35	19:17 (23)	20:19	33	06:22 (12)	20:45	28	06:20 (12)
18	07:30		06:54	16:19 (24)	07:05	06:09		18:42 (23)	05:26	05:48 (12)	05:10	05:53 (12)		
	16:45		17:28	16:46 (24)	19:06	19:45	34	19:16 (23)	20:20	34	06:22 (12)	20:45	27	06:20 (12)
19	07:29		06:53	16:20 (24)	07:03	06:07		18:41 (23)	05:25	05:47 (12)	05:10	05:54 (12)		
	16:46		17:30	16:45 (24)	19:07	19:46	35	19:16 (23)	20:21	35	06:22 (12)	20:46	27	06:21 (12)
20	07:28		06:51	16:22 (24)	07:01	06:05		18:42 (23)	05:24	05:46 (12)	05:10	05:54 (12)		
	16:48		17:31	16:43 (24)	19:08	19:47	34	19:16 (23)	20:22	36	06:22 (12)	20:46	27	06:21 (12)
21	07:28		06:49	16:23 (24)	07:00	06:03		18:42 (23)	05:23	05:45 (12)	05:10	05:54 (12)		
	16:49		17:33	16:41 (24)	19:10	19:49	33	19:15 (23)	20:24	37	06:22 (12)	20:46	27	06:21 (12)
22	07:27		06:48	16:27 (24)	06:58	06:02		18:42 (23)	05:22	05:44 (12)	05:11	05:54 (12)		
	16:50		17:34	11	16:38 (24)	19:11	32	19:14 (23)	20:25	38	06:22 (12)	20:47	27	06:21 (12)
23	07:26		06:46		06:56	06:00		18:43 (23)	05:21	05:44 (12)	05:11	05:54 (12)		
	16:52		17:35		19:12	19:51	30	19:13 (23)	20:26	38	06:22 (12)	20:47	27	06:21 (12)
24	07:25		06:44		06:54	05:59		18:43 (23)	05:20	05:43 (12)	05:11	05:55 (12)		
	16:53		17:37		19:14	19:52	29	19:12 (23)	20:27	39	06:22 (12)	20:47	27	06:22 (12)
25	07:24		06:43		06:52	05:57		18:45 (23)	05:19	05:43 (12)	05:11	05:54 (12)		
	16:54		17:38		19:15	19:54	26	19:11 (23)	20:28	39	06:22 (12)	20:47	28	06:22 (12)
26	07:23		06:41		06:50	05:55		18:45 (23)	05:18	05:43 (12)	05:12	05:54 (12)		
	16:56		17:39		19:16	19:55	25	19:10 (23)	20:29	38	06:21 (12)	20:47	28	06:22 (12)
27	07:22		06:39		06:48	05:54		18:47 (23)	05:18	05:44 (12)	05:12	05:55 (12)		
	16:57		17:41		19:17	19:56	21	19:08 (23)	20:30	38	06:22 (12)	20:47	28	06:23 (12)
28	07:22				06:46	05:52		18:48 (23)	05:17	05:44 (12)	05:13	05:54 (12)		
	16:58	3	16:32 (24)	06:38	19:19	19:57	18	19:06 (23)	20:31	38	06:22 (12)	20:47	29	06:23 (12)
29	07:20		16:25 (24)		06:45	05:51		18:51 (23)	05:16	05:44 (12)	05:13	05:55 (12)		
	17:00	9	16:34 (24)		19:20	19:59	13	19:04 (23)	20:32	37	06:21 (12)	20:47	28	06:23 (12)
30	07:19		16:23 (24)		06:43	05:49			05:15	05:45 (12)	05:14	05:54 (12)		
	17:01	13	16:36 (24)		19:21	20:00			20:33	37	06:22 (12)	20:47	29	06:23 (12)
31	07:18		16:20 (24)		06:41				05:15	05:45 (12)				
	17:03	16	16:36 (24)		19:22				20:34	36	06:21 (12)			
Potential sun hours	286		291		369	404		459		466				
Total, worst case		105		608		650		832		887				
Sun reduction	0.41		0.48			0.49		0.56		0.59				
Oper. time red.	1.00		1.00			1.00		1.00		1.00				
Wind dir. red.	0.78		0.79			0.67		0.79		0.79				
Total reduction	0.32		0.38			0.33		0.44		0.46				
Total, real	33		231			214		367		412				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 104

Licensed user:

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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 224 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (813)****Assumptions for shadow calculations**

Sunshine probability S/50 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:55 (12)	05:42	06:05 (12)	06:18	18:45 (23)	06:54	06:34	15:45 (24)	07:14	
2	05:15	06:24 (12)	05:43	06:30 (12)	19:35	19:12 (23)	18:39	16:46	16:19 (24)	16:17	
3	05:15	05:54 (12)	05:43	06:06 (12)	06:19	18:45 (23)	06:55	06:35	15:44 (24)	07:15	
4	05:16	06:24 (12)	05:44	06:29 (12)	19:33	19:10 (23)	18:37	16:45	16:18 (24)	16:17	
5	05:16	05:55 (12)	05:44	06:07 (12)	06:20	18:46 (23)	06:56	06:37	15:45 (24)	07:16	
6	05:17	06:25 (12)	05:45	06:28 (12)	19:31	19:08 (23)	18:35	16:43	16:18 (24)	16:17	
7	05:18	05:54 (12)	05:45	06:09 (12)	06:22	18:47 (23)	06:58	06:38	15:45 (24)	07:17	
8	05:18	06:25 (12)	05:46	06:29 (12)	19:30	19:06 (23)	18:33	16:42	16:17 (24)	16:16	
9	05:19	05:54 (12)	05:46	06:10 (12)	06:23	18:50 (23)	06:59	06:40	15:46 (24)	07:18	
10	05:20	06:26 (12)	05:47	06:27 (12)	19:28	19:05 (23)	18:31	16:41	16:16 (24)	16:16	
11	05:21	05:55 (12)	05:47	06:11 (12)	06:24	18:52 (23)	07:00	06:41	15:46 (24)	07:19	
12	05:22	06:27 (12)	05:48	06:26 (12)	19:26	19:03 (23)	18:29	16:39	16:14 (24)	16:16	
13	05:23	05:54 (12)	05:48	06:12 (12)	06:25		07:01	06:42	15:47 (24)	07:20	14:48 (28)
14	05:24	06:27 (12)	05:49	06:25 (12)	19:24		18:28	16:38	16:13 (24)	16:16	14:55 (28)
15	05:25	05:54 (12)	05:50	06:13 (12)	06:26		07:03	06:44	15:48 (24)	07:21	14:46 (28)
16	05:26	06:27 (12)	05:51	06:23 (12)	19:22		18:26	16:37	16:11 (24)	16:16	14:57 (28)
17	05:27	05:54 (12)	05:51	06:14 (12)	06:28		07:04	06:45	15:49 (24)	07:22	14:46 (28)
18	05:28	06:28 (12)	05:52	06:20 (12)	19:20		18:24	16:36	16:11 (24)	16:16	14:59 (28)
19	05:29	05:53 (12)	05:52	06:15 (12)	06:29		07:05	06:46	15:50 (24)	07:23	14:45 (28)
20	05:30	06:28 (12)	05:53	06:17 (12)	19:18		18:22	16:35	16:09 (24)	16:16	15:00 (28)
21	05:31	05:53 (12)	05:53				07:06	06:48	15:52 (24)	07:24	14:45 (28)
22	05:32	06:29 (12)	05:54		19:15		18:20	16:33	16:08 (24)	16:16	15:02 (28)
23	05:33	05:53 (12)	05:54		06:31		07:08	06:49	15:54 (24)	07:25	14:45 (28)
24	05:34	06:29 (12)	05:55		19:15		18:19	16:32	16:06 (24)	16:16	15:03 (28)
25	05:35	05:53 (12)	05:56	19:02 (23)	06:32		07:09	06:50	15:57 (24)	07:26	14:44 (28)
26	05:36	06:30 (12)	05:57	19:08 (23)	19:13		18:17	16:31	16:06 (24)	16:16	15:03 (28)
27	05:37	05:53 (12)	05:57	18:58 (23)	06:33		07:10	06:52	16:02 (24)	07:26	14:44 (28)
28	05:38	06:30 (12)	05:58	19:12 (23)	19:11		18:15	16:30	16:04 (24)	16:16	15:04 (28)
29	05:39	05:53 (12)	05:58	18:55 (23)	06:35		07:11	06:53		07:27	14:44 (28)
30	05:40	06:31 (12)	05:59	19:14 (23)	19:09		18:13	16:29		16:16	15:05 (28)
31	05:41	05:53 (12)	05:59	18:53 (23)	06:36		07:13	06:55		07:28	14:45 (28)
32	05:42	06:30 (12)	06:00	19:16 (23)	19:07		18:12	16:28		16:16	15:06 (28)
33	05:43	05:53 (12)	06:00	18:52 (23)	06:37		07:14	06:56		07:29	14:44 (28)
34	05:44	06:31 (12)	06:01	19:17 (23)	19:05		18:10	16:27		16:17	15:06 (28)
35	05:45	05:53 (12)	06:01	18:50 (23)	06:38		07:15	06:57		07:29	14:45 (28)
36	05:46	06:31 (12)	06:01	19:17 (23)	19:03		18:08	16:26		16:17	15:07 (28)
37	05:47	05:53 (12)	06:03	18:49 (23)	06:39		07:17	17:03 (24)	06:59		14:45 (28)
38	05:48	06:31 (12)	06:04	19:18 (23)	19:01		18:07	16:25		16:17	15:08 (28)
39	05:49	05:53 (12)	06:04	18:48 (23)	06:41		07:18	16:56 (24)	07:00		14:45 (28)
40	05:50	06:32 (12)	06:05	19:18 (23)	19:00		18:05	16:24		16:18	15:08 (28)
41	05:51	05:54 (12)	06:05	18:47 (23)	06:42		07:19	16:53 (24)	07:01		14:46 (28)
42	05:52	06:32 (12)	06:06	19:20 (23)	18:58		18:03	16:24		16:18	15:09 (28)
43	05:53	05:55 (12)	06:06	18:47 (23)	06:43		07:21	16:52 (24)	07:02		14:46 (28)
44	05:54	06:32 (12)	06:07	19:20 (23)	18:56		18:02	16:23		16:19	15:09 (28)
45	05:55	05:56 (12)	06:07	18:46 (23)	06:44		07:22	16:50 (24)	07:04		14:47 (28)
46	05:56	06:32 (12)	06:08	19:20 (23)	18:54		18:00	16:22		16:19	15:10 (28)
47	05:57	05:57 (12)	06:09	18:45 (23)	06:45		07:23	16:48 (24)	07:05		14:47 (28)
48	05:58	06:32 (12)	06:10	19:20 (23)	18:52		17:58	16:21		16:20	15:10 (28)
49	05:59	05:58 (12)	06:10	18:44 (23)	06:47		07:25	16:47 (24)	07:06		14:48 (28)
50	06:00	06:32 (12)	06:11	19:19 (23)	18:50		17:57	16:21		16:20	15:10 (28)
51	06:01	05:59 (12)	06:11	18:44 (23)	06:48		07:26	16:46 (24)	07:08		14:49 (28)
52	06:02	06:32 (12)	06:12	19:19 (23)	18:48		17:55	16:20		16:21	15:11 (28)
53	06:03	06:00 (12)	06:12	18:44 (23)	06:49		07:27	16:46 (24)	07:09		14:49 (28)
54	06:04	06:32 (12)	06:13	19:18 (23)	18:46		17:54	16:19		16:22	15:11 (28)
55	06:05	06:01 (12)	06:13	18:44 (23)	06:50		07:29	16:45 (24)	07:10		14:50 (28)
56	06:06	06:32 (12)	06:14	19:19 (23)	18:44		17:52	16:19		16:22	15:11 (28)
57	06:07	06:02 (12)	06:14	18:44 (23)	06:51		07:30	16:45 (24)	07:11		14:51 (28)
58	06:08	06:31 (12)	06:14	19:18 (23)	18:43		17:51	16:18		16:23	15:11 (28)
59	06:09	06:03 (12)	06:16	18:44 (23)	06:53		07:31	16:45 (24)	07:12		14:51 (28)
60	06:10	06:31 (12)	06:17	19:16 (23)	18:41		17:49	16:18		16:24	15:11 (28)
61	06:11	06:04 (12)	06:17	18:44 (23)			07:33	16:45 (24)		07:35	14:52 (28)
62	06:12	06:31 (12)	06:18	19:14 (23)			17:48	16:25		16:25	15:11 (28)
Potential sun hours	472	436	376	341	288	275	490				
Total, worst case	1053	695	119	338	320	490					
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.33					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.79	0.70	0.67	0.79	0.79	0.77					
Total reduction	0.50	0.42	0.36	0.37	0.25	0.25					
Total, real	531	291	43	126	79	124					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 105

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 225 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (814)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	07:35	07:17	16:05 (24) 06:36	06:39	05:48	06:09 (12) 05:14
	16:26	17:04	33 16:38 (24) 17:43	19:24	20:00	18 06:27 (12) 20:34
2	07:35	07:16	16:05 (24) 06:34	06:37	18:55 (23) 05:46	06:07 (12) 05:14
	16:27	17:06	34 16:39 (24) 17:45	19:25	4 18:59 (23) 20:01	20 06:27 (12) 20:35
3	07:35	07:15	16:05 (24) 06:32	06:35	18:49 (23) 05:45	06:06 (12) 05:13
	16:28	17:07	35 16:40 (24) 17:46	19:26	14 19:03 (23) 20:02	22 06:28 (12) 20:36
4	07:35	07:14	16:04 (24) 06:31	06:33	18:47 (23) 05:43	06:04 (12) 05:13
	16:29	17:08	35 16:39 (24) 17:48	19:27	18 19:05 (23) 20:04	24 06:28 (12) 20:37
5	07:35	07:12	16:05 (24) 06:29	06:32	18:44 (23) 05:42	06:03 (12) 05:12
	16:30	17:10	35 16:40 (24) 17:49	19:29	22 19:06 (23) 20:05	26 06:29 (12) 20:38
6	07:35	07:11	16:05 (24) 06:27	06:30	18:42 (23) 05:40	06:02 (12) 05:12
	16:31	17:11	35 16:40 (24) 17:50	19:30	25 19:07 (23) 20:06	28 06:30 (12) 20:39
7	07:34	07:10	16:05 (24) 06:25	06:28	18:41 (23) 05:39	06:01 (12) 05:11
	16:32	17:13	34 16:39 (24) 17:52	19:31	27 19:08 (23) 20:07	29 06:30 (12) 20:39
8	07:34	07:09	16:05 (24) 07:24	06:26	18:39 (23) 05:38	05:59 (12) 05:11
	16:33	17:14	35 16:40 (24) 18:53	19:32	30 19:09 (23) 20:09	31 06:30 (12) 20:40
9	07:34	07:07	16:06 (24) 07:22	06:24	18:39 (23) 05:36	05:58 (12) 05:11
	16:34	17:16	34 16:40 (24) 18:54	19:34	32 19:11 (23) 20:10	32 06:30 (12) 20:41
10	07:34	07:06	16:06 (24) 07:20	06:23	18:38 (23) 05:35	05:57 (12) 05:11
	16:35	17:17	33 16:39 (24) 18:55	19:35	34 19:12 (23) 20:11	33 06:30 (12) 20:41
11	07:33	07:04	16:07 (24) 07:18	06:21	18:37 (23) 05:34	05:56 (12) 05:10
	16:36	17:18	32 16:39 (24) 18:57	19:36	35 19:12 (23) 20:12	34 06:30 (12) 20:42
12	07:33	07:03	16:08 (24) 07:16	06:19	18:36 (23) 05:33	05:54 (12) 05:10
	16:37	17:20	29 16:37 (24) 18:58	19:37	36 19:12 (23) 20:13	35 06:29 (12) 20:42
13	07:33	07:02	16:09 (24) 07:14	06:17	18:35 (23) 05:31	05:53 (12) 05:10
	16:39	17:21	28 16:37 (24) 18:59	19:39	37 19:12 (23) 20:15	36 06:29 (12) 20:43
14	07:32	07:00	16:10 (24) 07:13	06:15	18:36 (23) 05:30	05:52 (12) 05:10
	16:40	17:23	25 16:35 (24) 19:01	19:40	36 19:12 (23) 20:16	37 06:29 (12) 20:44
15	07:32	06:59	16:12 (24) 07:11	06:14	18:35 (23) 05:29	05:52 (12) 05:10
	16:41	17:24	23 16:35 (24) 19:02	19:41	37 19:12 (23) 20:17	37 06:29 (12) 20:44
16	07:31	06:57	16:13 (24) 07:09	06:12	18:35 (23) 05:28	05:52 (12) 05:10
	16:42	17:26	19 16:32 (24) 19:03	19:42	36 19:11 (23) 20:18	37 06:29 (12) 20:45
17	07:30	06:56	16:16 (24) 07:07	06:10	18:36 (23) 05:27	05:53 (12) 05:10
	16:44	17:27	14 16:30 (24) 19:05	19:44	35 19:11 (23) 20:19	36 06:29 (12) 20:45
18	07:30	06:54	16:21 (24) 07:05	06:09	18:36 (23) 05:26	05:53 (12) 05:10
	16:45	17:28	4 16:25 (24) 19:06	19:45	34 19:10 (23) 20:20	35 06:28 (12) 20:45
19	07:29	06:53	07:03	06:07	18:36 (23) 05:25	05:53 (12) 05:10
	16:46	17:30	19:07	19:46	33 19:09 (23) 20:21	35 06:28 (12) 20:46
20	07:28	06:51	07:01	06:05	18:37 (23) 05:24	05:54 (12) 05:10
	16:48	17:31	19:08	19:47	32 19:09 (23) 20:22	34 06:28 (12) 20:46
21	07:28	16:15 (24) 06:49	07:00	06:03	18:37 (23) 05:23	05:54 (12) 05:10
	16:49	7 16:22 (24) 17:33	19:10	19:49	30 19:07 (23) 20:24	33 06:27 (12) 20:46
22	07:27	16:13 (24) 06:48	06:58	06:02	18:37 (23) 05:22	05:55 (12) 05:11
	16:50	10 16:23 (24) 17:34	19:11	19:50	29 19:06 (23) 20:25	31 06:26 (12) 20:47
23	07:26	16:11 (24) 06:46	06:56	06:00	18:39 (23) 05:21	05:56 (12) 05:11
	16:52	14 16:25 (24) 17:35	19:12	19:51	26 19:05 (23) 20:26	31 06:27 (12) 20:47
24	07:25	16:10 (24) 06:44	06:54	05:59	18:40 (23) 05:20	05:57 (12) 05:11
	16:53	16 16:26 (24) 17:37	19:14	19:52	23 19:03 (23) 20:27	29 06:26 (12) 20:47
25	07:24	16:09 (24) 06:43	06:52	05:57	18:42 (23) 05:19	05:57 (12) 05:11
	16:54	19 16:28 (24) 17:38	19:15	19:54	19 19:01 (23) 20:28	28 06:25 (12) 20:47
26	07:23	16:08 (24) 06:41	06:50	05:55	06:16 (12) 05:18	05:58 (12) 05:12
	16:56	21 16:29 (24) 17:39	19:16	19:55	15 18:58 (23) 20:29	26 06:24 (12) 20:47
27	07:22	16:07 (24) 06:39	06:48	05:54	06:15 (12) 05:18	05:59 (12) 05:12
	16:57	24 16:31 (24) 17:41	19:17	19:56	11 18:54 (23) 20:30	25 06:24 (12) 20:47
28	07:22	16:07 (24) 06:38	06:46	05:52	06:13 (12) 05:17	06:00 (12) 05:13
	16:58	25 16:32 (24) 17:42	19:19	19:57	10 06:23 (12) 20:31	23 06:23 (12) 20:47
29	07:20	16:06 (24)	06:45	05:51	06:12 (12) 05:16	06:01 (12) 05:13
	17:00	28 16:34 (24)	19:20	19:59	13 06:25 (12) 20:32	21 06:22 (12) 20:47
30	07:19	16:06 (24)	06:43	05:49	06:10 (12) 05:15	06:02 (12) 05:14
	17:01	30 16:36 (24)	19:21	20:00	15 06:25 (12) 20:33	20 06:22 (12) 20:47
31	07:18	16:05 (24)	06:41		05:15	06:03 (12)
	17:03	31 16:36 (24)	19:22		20:34	17 06:20 (12)
Potential sun hours	286	291	369	404	459	466
Total, worst case	225	517		748	903	34
Sun reduction	0.41	0.48		0.49	0.56	0.59
Oper. time red.	1.00	1.00		1.00	1.00	1.00
Wind dir. red.	0.79	0.79		0.69	0.78	0.78
Total reduction	0.33	0.38		0.34	0.44	0.46
Total, real	73	197		253	396	16

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 106

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 225 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (814)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14		05:42	06:05 (12)	06:18	18:36 (23)	06:54		06:34	15:36 (24)	07:14
	20:47		20:25	35	06:40 (12)	19:35	35	19:11 (23)	18:39	16:09 (24)	16:17
2	05:15		05:43		06:06 (12)	06:19		18:36 (23)	06:55	15:35 (24)	07:15
	20:47		20:24	34	06:40 (12)	19:33	34	19:10 (23)	18:37	16:09 (24)	16:17
3	05:15		05:44		06:07 (12)	06:20		18:36 (23)	06:56	15:35 (24)	07:16
	20:47		20:23	33	06:40 (12)	19:31	32	19:08 (23)	18:35	16:09 (24)	16:17
4	05:16		05:45		06:09 (12)	06:22		18:36 (23)	06:58	15:34 (24)	07:17
	20:46		20:21	31	06:40 (12)	19:30	30	19:06 (23)	18:33	16:09 (24)	16:16
5	05:16		05:46		06:10 (12)	06:23		18:38 (23)	06:59	15:35 (24)	07:18
	20:46		20:20	30	06:40 (12)	19:28	27	19:05 (23)	18:31	16:10 (24)	16:16
6	05:17		05:47		06:11 (12)	06:24		18:38 (23)	07:00	15:34 (24)	07:19
	20:46		20:19	29	06:40 (12)	19:26	25	19:03 (23)	18:29	16:09 (24)	16:16
7	05:18		05:48		06:12 (12)	06:25		18:39 (23)	07:01	15:35 (24)	07:20
	20:46		20:17	27	06:39 (12)	19:24	22	19:01 (23)	18:28	16:10 (24)	16:16
8	05:18		05:50		06:13 (12)	06:26		18:41 (23)	07:03	15:35 (24)	07:21
	20:45		20:16	25	06:38 (12)	19:22	18	18:59 (23)	18:26	16:09 (24)	16:16
9	05:19		06:17 (12)	05:51	06:14 (12)	06:28		18:43 (23)	07:04	15:36 (24)	07:22
	20:45	5	06:22 (12)	20:15	24	06:38 (12)	19:20	14	18:57 (23)	16:10 (24)	16:16
10	05:20		06:14 (12)	05:52		06:15 (12)	06:29		18:47 (23)	15:36 (24)	07:23
	20:44	10	06:24 (12)	20:13	22	06:37 (12)	19:18	6	18:53 (23)	16:09 (24)	16:16
11	05:21		06:13 (12)	05:53		06:16 (12)	06:30		18:53 (23)	15:37 (24)	07:24
	20:44	13	06:26 (12)	20:12	20	06:36 (12)	19:17		18:20	16:08 (24)	16:16
12	05:22		06:12 (12)	05:54		06:17 (12)	06:31		18:20	15:37 (24)	07:25
	20:43	16	06:28 (12)	20:10	17	06:34 (12)	19:15		18:19	16:06 (24)	16:16
13	05:22		06:11 (12)	05:56		06:19 (12)	06:32		18:19	15:38 (24)	07:26
	20:43	18	06:29 (12)	20:09	15	06:34 (12)	19:13		18:17	16:06 (24)	16:16
14	05:23		06:10 (12)	05:57		06:20 (12)	06:33		18:17	15:39 (24)	07:26
	20:42	21	06:31 (12)	20:07	12	06:32 (12)	19:11		18:15	16:04 (24)	16:16
15	05:24		06:10 (12)	05:58		06:21 (12)	06:35		18:15	15:40 (24)	07:27
	20:41	22	06:32 (12)	20:06	9	06:30 (12)	19:09		18:13	16:04 (24)	16:16
16	05:25		06:08 (12)	05:59		06:22 (12)	06:36		18:13	15:41 (24)	07:28
	20:41	24	06:32 (12)	20:04	13	19:02 (23)	19:07		18:12	16:02 (24)	16:16
17	05:26		06:08 (12)	06:00		18:50 (23)	06:37		18:12	15:42 (24)	07:29
	20:40	25	06:33 (12)	20:03	16	19:06 (23)	19:05		18:10	16:01 (24)	16:17
18	05:27		06:07 (12)	06:01		18:47 (23)	06:38		18:10	15:44 (24)	07:29
	20:39	27	06:34 (12)	20:01	20	19:07 (23)	19:03		18:08	16:00 (24)	16:17
19	05:28		06:06 (12)	06:03		18:45 (23)	06:39		18:08	15:45 (24)	07:30
	20:38	29	06:35 (12)	19:58	24	19:09 (23)	19:01		18:07	16:00 (24)	16:17
20	05:29		06:06 (12)	06:04		18:44 (23)	06:41		18:07	15:48 (24)	07:31
	20:38	30	06:36 (12)	19:56	26	19:10 (23)	19:00		18:05	16:00 (24)	16:18
21	05:30		06:05 (12)	06:05		18:43 (23)	06:42		18:05	15:50 (24)	07:31
	20:37	32	06:37 (12)	19:54	29	19:12 (23)	18:58		18:03	16:00 (24)	16:18
22	05:31		06:05 (12)	06:06		18:42 (23)	06:43		18:03	15:57 (24)	16:18
	20:36	32	06:37 (12)	19:53	30	19:12 (23)	18:56		18:02	16:00 (24)	16:19
23	05:32		06:05 (12)	06:07		18:40 (23)	06:44		18:02	16:00 (24)	16:19
	20:35	33	06:38 (12)	19:51	33	19:13 (23)	18:54		18:00	16:00 (24)	16:19
24	05:33		06:04 (12)	06:09		18:39 (23)	06:45		18:00	16:00 (24)	16:19
	20:34	34	06:38 (12)	19:49	34	19:13 (23)	18:52		17:58	16:48 (24)	16:21
25	05:34		06:04 (12)	06:10		18:38 (23)	06:47		17:58	16:45 (24)	16:21
	20:33	35	06:39 (12)	19:48	35	19:13 (23)	18:50		17:57	17:01 (24)	16:21
26	05:35		06:03 (12)	06:11		18:38 (23)	06:48		17:57	16:42 (24)	16:21
	20:32	36	06:39 (12)	19:46	35	19:13 (23)	18:48		17:55	17:02 (24)	16:20
27	05:36		06:03 (12)	06:12		18:37 (23)	06:49		17:55	16:41 (24)	16:20
	20:31	36	06:39 (12)	19:44	36	19:13 (23)	18:46		17:54	17:05 (24)	16:19
28	05:37		06:03 (12)	06:13		18:37 (23)	06:50		17:54	16:39 (24)	16:20
	20:30	37	06:40 (12)	19:42	36	19:13 (23)	18:44		17:52	17:05 (24)	16:19
29	05:38		06:03 (12)	06:14		18:37 (23)	06:51		17:52	16:38 (24)	16:20
	20:29	37	06:40 (12)	19:41	36	19:13 (23)	18:43		17:51	17:07 (24)	16:18
30	05:39		06:03 (12)	06:16		18:36 (23)	06:53		17:51	16:37 (24)	16:18
	20:28	37	06:40 (12)	19:39	37	19:13 (23)	18:41		17:49	17:07 (24)	16:18
31	05:40		06:04 (12)	06:17		18:36 (23)			17:48	16:37 (24)	16:18
	20:26	36	06:40 (12)	19:37	36	19:12 (23)			17:48	17:09 (24)	16:18
Potential sun hours	472		436		376		341		288		275
Total, worst case		625		839		243		186		567	
Sun reduction		0.64		0.60		0.54		0.47		0.31	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.78		0.73		0.68		0.79		0.79	
Total reduction		0.50		0.44		0.37		0.37		0.25	
Total, real		313		366		90		69		140	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 227 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (816)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:38 (24)	07:17	37	15:41 (24)	06:36	06:39		05:48	06:09 (12)	05:14
2	07:35	15:38 (24)	07:16	35	15:42 (24)	06:34	06:37	6	18:49 (23)	05:46	05:14
3	07:35	15:38 (24)	07:15	34	15:43 (24)	06:32	06:35	17	18:55 (23)	05:45	05:13
4	07:35	15:38 (24)	07:14	33	15:44 (24)	06:31	06:33	23	18:43 (23)	05:43	05:13
5	07:35	15:38 (24)	07:12	31	15:45 (24)	06:29	06:32	27	19:00 (23)	05:42	05:12
6	07:35	15:38 (24)	07:11	29	15:46 (24)	06:27	06:30	30	19:05 (23)	05:40	05:12
7	07:34	15:37 (24)	07:10	26	15:47 (24)	06:25	06:28	33	19:06 (23)	05:39	05:11
8	07:34	15:37 (24)	07:09	23	15:48 (24)	06:24	06:26	36	18:34 (23)	05:38	05:11
9	07:34	15:37 (24)	07:07	18	15:49 (24)	06:22	06:24	38	19:07 (23)	05:36	05:11
10	07:34	15:37 (24)	07:06	11	15:50 (24)	06:21	06:23	39	19:08 (23)	05:35	05:11
11	07:33	15:36 (24)	07:04		15:51 (24)	06:20	06:22	41	19:09 (23)	05:34	05:10
12	07:33	15:36 (24)	07:03		15:52 (24)	06:19	06:21	42	19:10 (23)	05:33	05:10
13	07:33	15:36 (24)	07:02		15:53 (24)	06:18	06:20	43	19:11 (23)	05:32	05:10
14	07:32	15:35 (24)	07:00		15:54 (24)	06:17	06:19	44	19:12 (23)	05:31	05:10
15	07:32	15:35 (24)	06:59		15:55 (24)	06:16	06:18	45	19:13 (23)	05:30	05:10
16	07:31	15:34 (24)	06:57		15:56 (24)	06:15	06:17	46	19:14 (23)	05:29	05:10
17	07:30	15:33 (24)	06:56		15:57 (24)	06:14	06:16	47	19:15 (23)	05:28	05:10
18	07:30	15:33 (24)	06:54		15:58 (24)	06:13	06:15	48	19:16 (23)	05:27	05:10
19	07:29	15:32 (24)	06:53		15:59 (24)	06:12	06:14	49	19:17 (23)	05:26	05:10
20	07:28	15:31 (24)	06:51		15:59 (24)	06:11	06:13	50	19:18 (23)	05:25	05:10
21	07:28	15:31 (24)	06:49		15:59 (24)	06:10	06:12	51	19:19 (23)	05:24	05:10
22	07:27	15:30 (24)	06:48		15:59 (24)	06:09	06:11	52	19:20 (23)	05:23	05:10
23	07:26	15:29 (24)	06:46		15:59 (24)	06:08	06:10	53	19:21 (23)	05:22	05:10
24	07:25	15:28 (24)	06:44		15:59 (24)	06:07	06:09	54	19:22 (23)	05:21	05:10
25	07:24	15:27 (24)	06:43		15:59 (24)	06:06	06:08	55	19:23 (23)	05:20	05:10
26	07:23	15:26 (24)	06:41		15:59 (24)	06:05	06:07	56	19:24 (23)	05:19	05:10
27	07:23	15:26 (24)	06:39		15:59 (24)	06:04	06:06	57	19:25 (23)	05:18	05:10
28	07:22	15:25 (24)	06:38		15:59 (24)	06:03	06:05	58	19:26 (23)	05:17	05:10
29	07:20	15:23 (24)			15:59 (24)	06:02	06:04	59	19:27 (23)	05:16	05:10
30	07:19	15:22 (24)			15:59 (24)	06:01	06:03	60	19:28 (23)	05:15	05:10
31	07:18	15:21 (24)			15:59 (24)	06:00	06:02		19:29 (23)	05:14	05:10
Potential sun hours	286	291	369	404	459	466					
Total, worst case	1035	277	1219	365							
Sun reduction	0.41	0.48	0.49	0.56							
Oper. time red.	1.00	1.00	1.00	1.00							
Wind dir. red.	0.79	0.79	0.70	0.76							
Total reduction	0.33	0.38	0.35	0.43							
Total, real	339	106	421	158							

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Licensed user:

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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 227 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (816)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42	06:21 (12)	06:18	18:28 (23)	06:54	06:34	15:24 (24)	07:14	15:19 (24)	
2	05:15	05:43	06:39 (12)	19:35	41	19:09 (23)	18:39	16:46	13	15:37 (24)	16:18
3	05:15	05:44	06:40 (12)	19:33	39	18:29 (23)	06:55	06:35	19	15:39 (24)	16:17
4	05:16	05:45	06:41 (12)	19:31	38	19:07 (23)	18:35	16:43	23	15:42 (24)	16:17
5	05:16	05:46	06:42 (12)	19:30	36	19:05 (23)	18:33	16:42	27	15:43 (24)	16:16
6	05:17	05:47	06:43 (12)	19:28	33	19:04 (23)	18:31	16:41	29	15:45 (24)	16:16
7	05:18	05:48	06:44 (12)	19:26	31	19:03 (23)	18:30	16:39	31	15:47 (24)	16:16
8	05:18	05:50	06:45 (12)	19:24	27	19:00 (23)	18:28	16:38	33	15:49 (24)	16:16
9	05:19	05:51	06:46 (12)	19:22	23	18:58 (23)	18:26	16:37	35	15:51 (24)	16:16
10	05:20	05:52	06:47 (12)	19:20	18	18:55 (23)	18:24	16:36	36	15:53 (24)	16:16
11	05:21	05:53	06:48 (12)	19:18	8	18:49 (23)	18:22	16:35	38	15:55 (24)	16:16
12	05:22	05:54	06:49 (12)	19:16			18:20	16:34	38	15:57 (24)	16:16
13	05:22	05:55	06:50 (12)	19:14			18:19	16:33	39	15:59 (24)	16:16
14	05:23	05:56	06:51 (12)	19:12			18:17	16:32	40	16:01 (24)	16:16
15	05:24	05:57	06:52 (12)	19:10			18:15	16:31	40	16:03 (24)	16:16
16	05:25	05:58	06:53 (12)	19:08			18:13	16:30	40	16:05 (24)	16:16
17	05:26	05:59	06:54 (12)	19:06			18:12	16:29	40	16:07 (24)	16:16
18	05:27	06:00	06:55 (12)	19:04			18:10	16:28	40	16:09 (24)	16:16
19	05:28	06:01	06:56 (12)	19:02			18:08	16:27	40	16:11 (24)	16:16
20	05:29	06:02	06:57 (12)	19:00			18:07	16:26	40	16:13 (24)	16:16
21	05:30	06:03	06:58 (12)	18:58			18:05	16:25	40	16:15 (24)	16:16
22	05:31	06:04	06:59 (12)	18:56			18:04	16:24	40	16:17 (24)	16:16
23	05:32	06:05	07:00 (12)	18:54			18:02	16:23	39	16:19 (24)	16:16
24	05:33	06:06	07:01 (12)	18:52			18:01	16:22	38	16:21 (24)	16:16
25	05:34	06:07	07:02 (12)	18:50			18:00	16:21	38	16:23 (24)	16:16
26	05:35	06:08	07:03 (12)	18:48			17:58	16:20	37	16:25 (24)	16:16
27	05:36	06:09	07:04 (12)	18:46			17:57	16:19	37	16:27 (24)	16:16
28	05:37	06:10	07:05 (12)	18:44			17:56	16:18	36	16:29 (24)	16:16
29	05:38	06:11	07:06 (12)	18:42			17:55	16:17	35	16:31 (24)	16:16
30	05:39	06:12	07:07 (12)	18:40			17:54	16:16	34	16:33 (24)	16:16
31	05:40	06:13	07:08 (12)	18:38			17:53	16:15	33	16:35 (24)	16:16
Potential sun hours	472	436	376	341	288	275	553				
Total, worst case	23	1283	294	1048	553						
Sun reduction	0.64	0.60	0.54	0.31	0.33						
Oper. time red.	1.00	1.00	1.00	1.00	1.00						
Wind dir. red.	0.77	0.72	0.68	0.79	0.79						
Total reduction	0.50	0.44	0.37	0.25	0.26						
Total, real	11	559	110	260	146						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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217 Montgomery St.

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 228 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (817)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	15:20 (24)	07:17	15:30 (24)	06:36	06:39	05:48	06:09 (12)	05:14			
	16:26	36	15:56 (24)	17:04	37	16:07 (24)	17:43	19:24	20:00	69	19:09 (23)	20:34
2	07:35	15:20 (24)	07:16	15:32 (24)	06:34	06:37	05:46	06:07 (12)	05:14			
	16:27	36	15:56 (24)	17:06	34	16:06 (24)	17:45	19:25	20:01	69	19:08 (23)	20:35
3	07:35	15:20 (24)	07:15	15:33 (24)	06:32	06:35	05:45	06:08 (12)	05:13			
	16:28	37	15:57 (24)	17:07	33	16:06 (24)	17:46	19:26	20:02	65	19:07 (23)	20:36
4	07:35	15:21 (24)	07:14	15:34 (24)	06:31	06:33	05:43	06:07 (12)	05:13			
	16:29	37	15:58 (24)	17:08	30	16:04 (24)	17:48	19:27	20:04	63	19:05 (23)	20:37
5	07:35	15:21 (24)	07:12	15:36 (24)	06:29	06:32	05:42	06:08 (12)	05:12			
	16:30	38	15:59 (24)	17:10	27	16:03 (24)	17:49	19:29	20:05	60	19:05 (23)	20:38
6	07:35	15:21 (24)	07:11	15:38 (24)	06:27	06:30	18:46 (23)	05:40	06:10 (12)	05:12		
	16:31	39	16:00 (24)	17:11	24	16:02 (24)	17:50	19:30	15	19:01 (23)	20:39	
7	07:34	15:22 (24)	07:10	15:40 (24)	06:25	06:28	18:42 (23)	05:39	06:11 (12)	05:11		
	16:32	39	16:01 (24)	17:13	19	15:59 (24)	17:52	19:31	22	19:04 (23)	20:39	
8	07:34	15:21 (24)	07:09	15:44 (24)	07:24	06:26	18:39 (23)	05:38	06:11 (12)	05:11		
	16:33	40	16:01 (24)	17:14	12	15:56 (24)	18:53	19:32	27	19:06 (23)	20:40	
9	07:34	15:22 (24)	07:07		07:22	06:24	18:37 (23)	05:36				
	16:34	40	16:02 (24)	17:16		18:54	19:34	31	19:08 (23)	20:10	37	18:58 (23)
10	07:34	15:22 (24)	07:06		07:20	06:23	18:35 (23)	05:35				
	16:35	41	16:03 (24)	17:17		18:55	19:35	34	19:09 (23)	20:11	27	18:56 (23)
11	07:33	15:22 (24)	07:04		07:18	06:21	18:33 (23)	05:34				
	16:36	41	16:03 (24)	17:18		18:57	19:36	37	19:10 (23)	20:12	11	18:53 (23)
12	07:33	15:22 (24)	07:03		07:16	06:19	18:31 (23)	05:33				
	16:37	42	16:04 (24)	17:20		18:58	19:37	40	19:11 (23)	20:13		
13	07:33	15:22 (24)	07:02		07:14	06:17	18:30 (23)	05:31				
	16:39	42	16:04 (24)	17:21		18:59	19:39	41	19:11 (23)	20:15		
14	07:32	15:23 (24)	07:00		07:13	06:15	18:30 (23)	05:30				
	16:40	42	16:05 (24)	17:23		19:01	19:40	43	19:13 (23)	20:16		
15	07:32	15:22 (24)	06:59		07:11	06:14	18:28 (23)	05:29				
	16:41	44	16:06 (24)	17:24		19:02	19:41	45	19:13 (23)	20:17		
16	07:31	15:22 (24)	06:57		07:09	06:12	18:27 (23)	05:28				
	16:42	44	16:06 (24)	17:26		19:03	19:42	46	19:13 (23)	20:18		
17	07:30	15:23 (24)	06:56		07:07	06:10	18:27 (23)	05:27				
	16:44	44	16:07 (24)	17:27		19:05	19:44	47	19:14 (23)	20:19		
18	07:30	15:23 (24)	06:54		07:05	06:09	06:29 (12)	05:26				
	16:45	44	16:07 (24)	17:28		19:06	19:45	49	19:14 (23)	20:20		
19	07:29	15:23 (24)	06:53		07:03	06:07	06:27 (12)	05:25				
	16:46	44	16:07 (24)	17:30		19:07	19:46	53	19:13 (23)	20:21		
20	07:28	15:23 (24)	06:51		07:01	06:05	06:26 (12)	05:24				
	16:48	44	16:07 (24)	17:31		19:08	19:47	56	19:14 (23)	20:22		
21	07:28	15:24 (24)	06:49		07:00	06:03	06:24 (12)	05:23				
	16:49	44	16:08 (24)	17:33		19:10	19:49	60	19:14 (23)	20:24		
22	07:27	15:25 (24)	06:48		06:58	06:02	06:22 (12)	05:22				
	16:50	44	16:09 (24)	17:34		19:11	19:50	62	19:13 (23)	20:25		
23	07:26	15:25 (24)	06:46		06:56	06:00	06:21 (12)	05:21				
	16:52	44	16:09 (24)	17:35		19:12	19:51	64	19:13 (23)	20:26		
24	07:25	15:25 (24)	06:44		06:54	05:59	06:19 (12)	05:20				
	16:53	44	16:09 (24)	17:37		19:14	19:53	66	19:13 (23)	20:27		
25	07:24	15:26 (24)	06:43		06:52	05:57	06:18 (12)	05:19				
	16:54	43	16:09 (24)	17:38		19:15	19:54	67	19:13 (23)	20:28		
26	07:23	15:26 (24)	06:41		06:50	05:55	06:16 (12)	05:18				
	16:56	43	16:09 (24)	17:39		19:16	19:55	68	19:12 (23)	20:29		
27	07:23	15:27 (24)	06:39		06:48	05:54	06:15 (12)	05:18				
	16:57	42	16:09 (24)	17:41		19:17	19:56	69	19:12 (23)	20:30		
28	07:22	15:28 (24)	06:38		06:46	05:52	06:13 (12)	05:17				
	16:58	41	16:09 (24)	17:42		19:19	19:57	70	19:11 (23)	20:31		
29	07:20	15:28 (24)			06:45	05:51	06:12 (12)	05:16				
	17:00	40	16:08 (24)		19:20	19:59	70	19:11 (23)	20:32			
30	07:19	15:29 (24)			06:43	05:49	06:10 (12)	05:15				
	17:01	39	16:08 (24)		19:21	20:00	69	19:09 (23)	20:33			
31	07:18	15:29 (24)			06:41				05:15			
	17:03	38	16:07 (24)		19:22				20:34			
Potential sun hours	286		291		369	404		459				466
Total, worst case		1276		216		1251		549				
Sun reduction		0.41		0.48		0.49		0.56				
Oper. time red.		1.00		1.00		1.00		1.00				
Wind dir. red.		0.79		0.79		0.69		0.71				
Total reduction		0.33		0.38		0.34		0.40				
Total, real		419		83		428		222				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 110

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 228 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (817)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14	05:42	06:18	18:32 (23)	06:54	06:34
2	05:47	05:25	19:35	19:09 (23)	18:39	16:46
3	05:15	05:44	06:24 (12)	18:33 (23)	06:55	06:35
4	05:47	05:24	19:07 (23)	18:37	16:45	16:17
5	05:15	05:44	06:24 (12)	18:34 (23)	06:56	06:37
6	05:47	05:23	19:07 (23)	18:35	16:44	15:13 (24)
7	05:16	05:45	06:23 (12)	18:36 (23)	06:58	06:38
8	05:46	05:21	19:10 (23)	18:33	16:42	15:29 (24)
9	05:16	05:46	06:21 (12)	18:39 (23)	06:59	06:40
10	05:46	05:20	19:11 (23)	18:31	16:41	15:32 (24)
11	05:17	05:47	06:20 (12)	18:42 (23)	07:00	06:41
12	05:46	05:19	19:12 (23)	18:30	16:40	15:05 (24)
13	05:18	05:48	06:19 (12)	07:01	06:42	15:33 (24)
14	05:46	05:17	19:14 (23)	18:28	16:38	15:05 (24)
15	05:18	05:50	06:18 (12)	07:03	06:44	15:35 (24)
16	05:45	05:16	19:14 (23)	18:26	16:37	15:03 (24)
17	05:19	05:51	06:17 (12)	07:04	06:45	15:36 (24)
18	05:45	05:20	19:15 (23)	18:24	16:36	15:02 (24)
19	05:19	05:52	06:16 (12)	07:05	06:46	15:37 (24)
20	05:44	05:21	19:16 (23)	18:22	16:35	15:01 (24)
21	05:21	05:53	06:16 (12)	07:06	06:48	15:38 (24)
22	05:44	05:22	19:17 (23)	18:20	16:33	15:01 (24)
23	05:22	05:54	06:17 (12)	07:08	06:49	15:39 (24)
24	05:22	05:56	06:19 (12)	18:19	16:32	15:00 (24)
25	05:23	05:57	06:20 (12)	07:09	06:50	15:39 (24)
26	05:24	05:58	06:21 (12)	18:17	16:31	15:00 (24)
27	05:24	06:00	06:22 (12)	07:10	06:52	15:49 (24)
28	05:25	06:01	06:23 (12)	18:15	16:30	15:41 (24)
29	05:25	06:02	06:24 (12)	07:11	06:53	15:00 (24)
30	05:26	06:03	06:25 (12)	18:13	16:29	15:42 (24)
31	05:26	06:04	06:26 (12)	07:13	06:55	15:49 (24)
32	05:27	06:05	06:27 (12)	18:12	16:28	15:42 (24)
33	05:27	06:06	06:28 (12)	07:14	06:56	15:49 (24)
34	05:28	06:07	06:29 (12)	18:10	16:27	15:42 (24)
35	05:28	06:08	06:30 (12)	07:15	06:57	15:49 (24)
36	05:29	06:09	06:31 (12)	18:08	16:26	15:43 (24)
37	05:29	06:10	06:32 (12)	07:17	06:59	14:59 (24)
38	05:30	06:11	06:33 (12)	18:07	16:25	15:43 (24)
39	05:30	06:12	06:34 (12)	07:18	07:00	15:00 (24)
40	05:31	06:13	06:35 (12)	18:05	16:24	15:44 (24)
41	05:31	06:14	06:36 (12)	07:19	07:01	14:59 (24)
42	05:32	06:15	06:37 (12)	18:03	16:24	15:43 (24)
43	05:32	06:16	06:38 (12)	07:21	07:02	14:59 (24)
44	05:33	06:17	06:39 (12)	18:02	16:23	15:43 (24)
45	05:33	06:18	06:40 (12)	07:22	07:04	15:00 (24)
46	05:34	06:19	06:41 (12)	18:00	16:22	15:44 (24)
47	05:34	06:20	06:42 (12)	07:23	07:05	15:00 (24)
48	05:35	06:21	06:43 (12)	17:58	16:21	15:44 (24)
49	05:35	06:22	06:44 (12)	07:25	07:06	15:01 (24)
50	05:36	06:23	06:45 (12)	17:57	16:21	15:45 (24)
51	05:36	06:24	06:46 (12)	07:26	07:08	15:01 (24)
52	05:37	06:25	06:47 (12)	17:55	16:20	15:45 (24)
53	05:37	06:26	06:48 (12)	07:27	07:09	15:01 (24)
54	05:38	06:27	06:49 (12)	17:54	16:19	15:45 (24)
55	05:38	06:28	06:50 (12)	07:29	07:10	15:02 (24)
56	05:39	06:29	06:51 (12)	17:52	16:19	15:44 (24)
57	05:39	06:30	06:52 (12)	07:30	07:11	15:03 (24)
58	05:40	06:31	06:53 (12)	17:51	16:18	15:45 (24)
59	05:40	06:32	06:54 (12)	07:31	07:12	15:03 (24)
60	05:41	06:33	06:55 (12)	17:49	16:18	15:45 (24)
61	05:41	06:34	06:56 (12)	07:33		07:35
62	05:42	06:35	06:57 (12)	17:48		16:25
63	05:43	06:36	06:58 (12)			15:55 (24)
64	05:43	06:37	06:59 (12)			
65	05:44	06:38	07:00 (12)			
66	05:44	06:39	07:01 (12)			
67	05:45	06:40	07:02 (12)			
68	05:45	06:41	07:03 (12)			
69	05:46	06:42	07:04 (12)			
70	05:46	06:43	07:05 (12)			
71	05:47	06:44	07:06 (12)			
72	05:47	06:45	07:07 (12)			
73	05:48	06:46	07:08 (12)			
74	05:48	06:47	07:09 (12)			
75	05:49	06:48	07:10 (12)			
76	05:49	06:49	07:11 (12)			
77	05:50	06:50	07:12 (12)			
78	05:50	06:51	07:13 (12)			
79	05:51	06:52	07:14 (12)			
80	05:51	06:53	07:15 (12)			
81	05:52	06:54	07:16 (12)			
82	05:52	06:55	07:17 (12)			
83	05:53	06:56	07:18 (12)			
84	05:53	06:57	07:19 (12)			
85	05:54	06:58	07:20 (12)			
86	05:54	06:59	07:21 (12)			
87	05:55	07:00	07:22 (12)			
88	05:55	07:01	07:23 (12)			
89	05:56	07:02	07:24 (12)			
90	05:56	07:03	07:25 (12)			
91	05:57	07:04	07:26 (12)			
92	05:57	07:05	07:27 (12)			
93	05:58	07:06	07:28 (12)			
94	05:58	07:07	07:29 (12)			
95	05:59	07:08	07:30 (12)			
96	05:59	07:09	07:31 (12)			
97	06:00	07:10	07:32 (12)			
98	06:00	07:11	07:33 (12)			
99	06:01	07:12	07:34 (12)			
100	06:01	07:13	07:35 (12)			
101	06:02	07:14	07:36 (12)			
102	06:02	07:15	07:37 (12)			
103	06:03	07:16	07:38 (12)			
104	06:03	07:17	07:39 (12)			
105	06:04	07:18	07:40 (12)			
106	06:04	07:19	07:41 (12)			
107	06:05	07:20	07:42 (12)			
108	06:05	07:21	07:43 (12)			
109	06:06	07:22	07:44 (12)			
110	06:06	07:23	07:45 (12)			
111	06:07	07:24	07:46 (12)			
112	06:07	07:25	07:47 (12)			
113	06:08	07:26	07:48 (12)			
114	06:08	07:27	07:49 (12)			
115	06:09	07:28	07:50 (12)			
116	06:09	07:29	07:51 (12)			
117	06:10	07:30	07:52 (12)			
118	06:10	07:31	07:53 (12)			
119	06:11	07:32	07:54 (12)			
120	06:11	07:33	07:55 (12)			
121	06:12	07:34	07:56 (12)			
122	06:12	07:35	07:57 (12)			
123	06:13	07:36	07:58 (12)			
124	06:13	07:37	07:59 (12)			
125	06:14	07:38	08:00 (12)			
126	06:14	07:39	08:01 (12)			
127	06:15	07:40	08:02 (12)			
128	06:15	07:41	08:03 (12)			
129	06:16	07:42	08:04 (12)			
130	06:16	07:43	08:05 (12)			
131	06:17	07:44	08:06 (12)			
132	06:17	07:45	08:07 (12)			
133	06:18	07:46	08:08 (12)			
134	06:18	07:47	08:09 (12)			
135	06:19	07:48	08:10 (12)			
136	06:19	07:49	08:11 (12)			
137	06:20	07:50	08:12 (12)			
138	06:20	07:51	08:13 (12)			
139	06:21	07:52	08:14 (12)			
140	06:21	07:53	08:15 (12)			
141	06:22	07:54	08:16 (12)			
142	06:22	07:55	08:17 (12)			
143	06:23	07:56	08:18 (12)			
144	06:23	07:57	08:19 (12)			
145	06:24	07:58	08:20 (12)			
146	06:24	07:59	08:21 (12)			
147	06:25	08:00	08:22 (12)			
148	06:25	08:01	08:23 (12)			
149	06:26	08:02	08:24 (12)			
150	06:26	08:03	08:25 (12)			
151	06:27	08:04	08:26 (12)			
152	06:27	08:05	08:27 (12)			
153	06:28	08:06	08:28 (12)			
154	06:28	08:07	08:29 (12)			
155	06:29	08:08	08:30 (12)			
156	06:29	08:09	08:31 (12)			
157	06:30	08:10	08:32 (12)			
158	06:30	08:11	08:33 (12)			
159	06:31	08:12	08:34 (12)			
160	06:31	08:13	08:35 (12)			
161	06:32	08:14	08:36 (12)			
162	06:32	08:15	08:37 (12)			
163	06:33	08:16	08:38 (12)			
164	06:33	08:17	08:39 (12)			
165	06:34	08:18	08:40 (12)			
166	06:34	08:19	08:41 (12)			
167	06:35	08:20	08:42 (12)			
168	06:35	08:21	08:43 (12)			
169	06:36	08:22	08:44 (12)			

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 111

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 229 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (818)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:24 (24)	07:17	15:30 (24)	06:36	06:39		05:48		06:09 (12)	05:14
	16:26	32	15:56 (24)	17:04	42	16:12 (24)	17:43	19:24		20:00	73
2	07:35	15:24 (24)	07:16	15:31 (24)	06:34	06:37		05:46		06:07 (12)	05:14
	16:27	33	15:57 (24)	17:06	41	16:12 (24)	17:45	19:25		20:01	74
3	07:35	15:24 (24)	07:15	15:32 (24)	06:32	06:35		05:45		06:06 (12)	05:13
	16:28	34	15:58 (24)	17:07	39	16:11 (24)	17:46	19:26		20:02	74
4	07:35	15:25 (24)	07:14	15:32 (24)	06:31	06:33		05:43		06:04 (12)	05:13
	16:29	34	15:59 (24)	17:08	38	16:10 (24)	17:48	19:27		20:04	74
5	07:35	15:25 (24)	07:12	15:34 (24)	06:29	06:32		05:42		06:03 (12)	05:12
	16:30	35	16:00 (24)	17:10	36	16:10 (24)	17:49	19:29		20:05	75
6	07:35	15:25 (24)	07:11	15:35 (24)	06:27	06:30		05:40		06:04 (12)	05:12
	16:31	36	16:01 (24)	17:11	34	16:09 (24)	17:50	19:30		20:06	72
7	07:34	15:25 (24)	07:10	15:36 (24)	06:25	06:28		05:39		06:05 (12)	05:12
	16:32	37	16:02 (24)	17:13	31	16:07 (24)	17:52	19:31		20:07	69
8	07:34	15:25 (24)	07:09	15:38 (24)	07:24	06:26		05:38		06:05 (12)	05:11
	16:33	37	16:02 (24)	17:14	28	16:06 (24)	18:53	19:32		20:09	66
9	07:34	15:25 (24)	07:07	15:40 (24)	07:22	06:24		05:36		06:06 (12)	05:11
	16:34	38	16:03 (24)	17:16	25	16:05 (24)	18:54	19:34		20:10	64
10	07:34	15:25 (24)	07:06	15:42 (24)	07:20	06:23		05:35		06:07 (12)	05:11
	16:35	40	16:05 (24)	17:17	20	16:02 (24)	18:55	19:35		20:11	61
11	07:33	15:25 (24)	07:04	15:46 (24)	07:18	06:21		18:53 (23)	05:34	06:09 (12)	05:10
	16:36	40	16:05 (24)	17:18	14	16:00 (24)	18:57	19:36	12	19:05 (23)	20:12
12	07:33	15:25 (24)	07:03	15:47 (24)	07:16	06:19		18:48 (23)	05:33	06:09 (12)	05:10
	16:37	41	16:06 (24)	17:20	18:58	19:37	21	19:09 (23)	20:13	52	19:13 (23)
13	07:33	15:25 (24)	07:02	15:48 (24)	07:14	06:17		18:45 (23)	05:31	06:12 (12)	05:10
	16:39	41	16:06 (24)	17:21	18:59	19:39	26	19:11 (23)	20:15	43	19:12 (23)
14	07:32	15:25 (24)	07:00	15:49 (24)	07:13	06:15		18:43 (23)	05:30	18:38 (23)	05:10
	16:40	43	16:08 (24)	17:23	19:01	19:40	31	19:14 (23)	20:16	33	19:11 (23)
15	07:32	15:25 (24)	06:59	15:50 (24)	07:11	06:14		18:41 (23)	05:29	18:39 (23)	05:10
	16:41	43	16:08 (24)	17:24	19:02	19:41	34	19:15 (23)	20:17	31	19:10 (23)
16	07:31	15:25 (24)	06:57	15:51 (24)	07:09	06:12		18:39 (23)	05:28	18:40 (23)	05:10
	16:42	43	16:08 (24)	17:26	19:03	19:42	37	19:16 (23)	20:18	29	19:09 (23)
17	07:30	15:25 (24)	06:56	15:52 (24)	07:07	06:10		18:38 (23)	05:27	18:42 (23)	05:10
	16:44	44	16:09 (24)	17:27	19:05	19:44	40	19:18 (23)	20:19	25	19:07 (23)
18	07:30	15:25 (24)	06:54	15:53 (24)	07:05	06:09		18:37 (23)	05:26	18:43 (23)	05:10
	16:45	45	16:10 (24)	17:28	19:06	19:45	41	19:18 (23)	20:20	23	19:06 (23)
19	07:29	15:25 (24)	06:53	15:54 (24)	07:03	06:07		18:35 (23)	05:25	18:45 (23)	05:10
	16:46	45	16:10 (24)	17:30	19:07	19:46	43	19:18 (23)	20:21	19	19:04 (23)
20	07:28	15:25 (24)	06:51	15:55 (24)	07:01	06:05		18:35 (23)	05:24	18:48 (23)	05:10
	16:48	45	16:10 (24)	17:31	19:08	19:47	45	19:20 (23)	20:22	13	19:01 (23)
21	07:28	15:26 (24)	06:49	15:56 (24)	07:00	06:03		06:24 (12)	05:23	18:52 (23)	05:10
	16:49	45	16:11 (24)	17:33	19:10	19:49	49	19:20 (23)	20:24	5	18:57 (23)
22	07:27	15:26 (24)	06:48	15:57 (24)	06:58	06:02		06:22 (12)	05:22		05:11
	16:50	46	16:12 (24)	17:34	19:11	19:50	53	19:20 (23)	20:25		20:47
23	07:26	15:26 (24)	06:46	15:58 (24)	06:56	06:00		06:21 (12)	05:21		05:11
	16:52	46	16:12 (24)	17:35	19:12	19:51	56	19:20 (23)	20:26		20:47
24	07:25	15:27 (24)	06:44	15:59 (24)	06:54	05:59		06:19 (12)	05:20		05:11
	16:53	45	16:12 (24)	17:37	19:14	19:53	59	19:20 (23)	20:27		20:47
25	07:24	15:27 (24)	06:43	15:59 (24)	06:52	05:57		06:18 (12)	05:19		05:11
	16:54	45	16:12 (24)	17:38	19:15	19:54	63	19:21 (23)	20:28		20:47
26	07:23	15:27 (24)	06:41	15:59 (24)	06:50	05:55		06:16 (12)	05:18		05:12
	16:56	46	16:13 (24)	17:39	19:16	19:55	65	19:20 (23)	20:29		20:47
27	07:23	15:28 (24)	06:39	15:59 (24)	06:48	05:54		06:15 (12)	05:18		05:12
	16:57	45	16:13 (24)	17:41	19:17	19:56	68	19:21 (23)	20:30		20:47
28	07:22	15:28 (24)	06:38	15:59 (24)	06:46	05:52		06:13 (12)	05:17		05:13
	16:58	45	16:13 (24)	17:42	19:19	19:57	69	19:20 (23)	20:31		20:47
29	07:20	15:29 (24)		15:59 (24)	06:45	05:51		06:12 (12)	05:16		05:13
	17:00	44	16:13 (24)		19:20	19:59	71	19:21 (23)	20:32		20:47
30	07:19	15:29 (24)		15:59 (24)	06:43	05:49		06:10 (12)	05:15		05:14
	17:01	44	16:13 (24)		19:21	20:00	72	19:20 (23)	20:33		20:47
31	07:18	15:29 (24)		15:59 (24)	06:41				05:15		
	17:03	43	16:12 (24)		19:22				20:34		
Potential sun hours	286		291		369	404		459		466	
Total, worst case		1280		348		955		1030			
Sun reduction	0.41		0.48			0.49		0.56			
Oper. time red.	1.00		1.00			1.00		1.00			
Wind dir. red.	0.79		0.79			0.67		0.69			
Total reduction	0.33		0.39			0.34		0.39			
Total, real	422		134			320		403			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 229 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (818)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September		October		November		December	
1	05:14 20:47	05:42 20:25	06:19 (12)	06:18 19:35	18:52 (23)	06:54 18:39	06:34 16:46	15:11 (24)	07:14 16:18	15:07 (24)
2	05:15 20:47	05:43 20:24	53 56	19:24 (23)	19:04 (23)	06:55 18:37	06:35 16:45	22 25	15:33 (24)	15:07 (24)
3	05:15 20:47	05:44 20:23	62	06:18 (12)		06:56 18:35	06:37 16:44	29	15:09 (24)	15:08 (24)
4	05:16 20:46	05:45 20:21	64	06:16 (12)		06:58 18:33	06:38 16:42	31	15:07 (24)	15:10 (24)
5	05:16 20:46	05:46 20:20	68	06:20 (23)		06:59 18:31	06:40 16:41	34	15:06 (24)	15:10 (24)
6	05:17 20:46	05:47 20:19	71	06:14 (12)		07:00 18:30	06:41 16:40	37	15:39 (24)	15:11 (24)
7	05:18 20:46	05:48 20:17	74	15:03 (24)		07:01 18:28	06:42 16:38	38	15:03 (24)	15:12 (24)
8	05:18 20:45	05:50 20:16	74	06:13 (12)		07:03 18:26	06:44 16:37	39	15:41 (24)	15:13 (24)
9	05:19 20:45	05:51 20:15	75	06:16 (12)		07:04 18:24	06:45 16:36	41	15:02 (24)	15:13 (24)
10	05:20 20:44	05:52 20:13	75	15:43 (24)		07:05 18:22	06:46 16:35	42	15:01 (24)	15:14 (24)
11	05:21 20:44	05:53 20:12	73	15:43 (24)		07:06 18:20	06:48 16:33	43	15:01 (24)	15:15 (24)
12	05:22 20:43	05:54 20:10	73	06:17 (12)		07:08 18:19	06:49 16:32	44	15:44 (24)	15:16 (24)
13	05:22 20:43	05:56 20:09	72	06:19 (12)		07:09 18:17	06:50 16:31	44	15:00 (24)	15:16 (24)
14	05:23 20:42	05:57 20:07	70	15:45 (24)		07:10 18:15	06:52 16:30	45	15:01 (24)	15:17 (24)
15	05:24 20:41	05:58 20:06	69	06:20 (12)		07:11 18:13	06:53 16:29	46	15:45 (24)	15:18 (24)
16	05:25 20:41	05:59 20:04	67	15:00 (24)		07:13 18:12	06:55 16:28	46	15:46 (24)	15:19 (24)
17	05:26 20:40	06:00 20:03	64	06:22 (12)		07:14 18:10	06:56 16:27	45	15:00 (24)	15:19 (24)
18	05:27 20:39	06:01 20:01	63	15:45 (24)		07:15 18:08	06:57 16:26	46	15:45 (24)	15:20 (24)
19	05:28 20:38	06:03 19:58	60	06:24 (12)		07:17 18:07	06:59 16:25	46	15:00 (24)	15:21 (24)
20	05:29 20:38	06:04 19:56	57	06:26 (12)		07:18 18:05	07:00 16:24	46	15:46 (24)	15:21 (24)
21	05:30 20:37	06:05 19:54	53	06:28 (12)		07:19 18:03	07:01 16:24	45	15:01 (24)	15:22 (24)
22	05:31 20:36	06:06 19:53	47	06:29 (12)		07:21 18:02	07:02 16:23	45	15:46 (24)	15:22 (24)
23	05:32 20:35	10 19:00 (23) 19:10 (23)	06:07 19:51	18:39 (23)		07:22 18:00	07:04 16:22	45	15:02 (24)	15:23 (24)
24	05:33 20:34	18:57 (23) 19:13 (23)	06:09 19:49	18:39 (23)		07:23 17:58	07:05 16:21	45	15:47 (24)	15:24 (24)
25	05:34 20:33	18:55 (23) 19:15 (23)	06:10 19:48	18:40 (23)		07:25 17:57	07:06 16:21	45	15:04 (24)	15:25 (24)
26	05:35 20:32	18:53 (23) 19:17 (23)	06:11 19:46	18:40 (23)		07:26 17:55	07:08 16:20	43	15:47 (24)	15:24 (24)
27	05:36 20:31	18:52 (23) 19:19 (23)	06:12 19:44	18:41 (23)		07:27 17:54	07:09 16:19	43	15:04 (24)	15:25 (24)
28	05:37 20:30	18:50 (23) 19:20 (23)	06:13 19:42	18:43 (23)		07:29 17:52	07:10 16:19	43	15:47 (24)	15:24 (24)
29	05:38 20:29	18:49 (23) 19:21 (23)	06:14 19:41	18:44 (23)		07:30 17:51	07:11 16:18	41	15:04 (24)	15:24 (24)
30	05:39 20:28	18:48 (23) 19:22 (23)	06:16 19:39	18:46 (23)		07:31 17:49	07:12 16:18	41	15:06 (24)	15:24 (24)
31	05:41 20:26	06:22 (12) 19:23 (23)	06:17 19:37	18:48 (23)		07:33 17:48	15 16:15 (24) 15 16:30 (24)		07:35 16:25	15:24 (24)
Potential sun hours	472	436		376		341	288		275	
Total, worst case	239	1756		12		15	1223		975	
Sun reduction	0.64	0.60		0.54		0.47	0.31		0.33	
Oper. time red.	1.00	1.00		1.00		1.00	1.00		1.00	
Wind dir. red.	0.66	0.68		0.66		0.79	0.79		0.79	
Total reduction	0.43	0.42		0.36		0.38	0.25		0.27	
Total, real	103	732		4		6	305		259	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 230 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (819)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:15 (24)	07:17	15:28 (24)	06:36	06:39		05:48		06:09 (12)	05:14
	16:26	39	15:54 (24)	17:04	34	16:02 (24)	17:43	19:24		19:09 (23)	20:34
2	07:35	15:15 (24)	07:16	15:29 (24)	06:34	06:37		05:46		06:08 (12)	05:14
	16:27	39	15:54 (24)	17:06	32	16:01 (24)	17:45	19:25		19:08 (23)	20:35
3	07:35	15:15 (24)	07:15	15:31 (24)	06:32	06:35		05:45		06:09 (12)	05:13
	16:28	40	15:55 (24)	17:07	30	16:01 (24)	17:46	19:26		19:07 (23)	20:36
4	07:35	15:15 (24)	07:14	15:32 (24)	06:31	06:33		05:43		06:09 (12)	05:13
	16:29	41	15:56 (24)	17:08	27	15:59 (24)	17:48	19:27		19:06 (23)	20:37
5	07:35	15:16 (24)	07:12	15:35 (24)	06:29	06:32		05:42		06:11 (12)	05:12
	16:30	41	15:57 (24)	17:10	22	15:57 (24)	17:49	19:29		19:05 (23)	20:38
6	07:35	15:16 (24)	07:11	15:37 (24)	06:27	06:30		18:45 (23)	05:40	06:12 (12)	05:12
	16:31	42	15:58 (24)	17:11	18	15:55 (24)	17:50	19:30		19:04 (23)	20:39
7	07:34	15:17 (24)	07:10	15:41 (24)	06:25	06:28		18:41 (23)	05:39	06:14 (12)	05:12
	16:32	42	15:59 (24)	17:13	10	15:51 (24)	17:52	19:31		19:03 (23)	20:39
8	07:34	15:16 (24)	07:09		07:24	06:26		18:37 (23)	05:38	06:15 (12)	05:11
	16:33	42	15:58 (24)	17:14		18:53	19:32	28	19:05 (23)	19:01 (23)	20:40
9	07:34	15:17 (24)	07:07		07:22	06:24		18:36 (23)	05:36	06:18 (12)	05:11
	16:34	42	15:59 (24)	17:16		18:54	19:34	32	19:08 (23)	19:00 (23)	20:41
10	07:34	15:17 (24)	07:06		07:20	06:23		18:34 (23)	05:35	18:35 (23)	05:11
	16:35	43	16:00 (24)	17:17		18:55	19:35	35	19:09 (23)	18:58 (23)	20:41
11	07:33	15:17 (24)	07:04		07:18	06:21		18:32 (23)	05:34	18:38 (23)	05:10
	16:36	43	16:00 (24)	17:18		18:57	19:36	38	19:10 (23)	18:56 (23)	20:42
12	07:33	15:18 (24)	07:03		07:16	06:19		18:30 (23)	05:33	18:40 (23)	05:10
	16:37	43	16:01 (24)	17:20		18:58	19:37	40	19:10 (23)	18:52 (23)	20:43
13	07:33	15:17 (24)	07:02		07:14	06:17		18:29 (23)	05:31		05:10
	16:39	44	16:01 (24)	17:21		18:59	19:39	42	19:11 (23)		20:43
14	07:32	15:18 (24)	07:00		07:13	06:15		18:28 (23)	05:30		05:10
	16:40	45	16:03 (24)	17:23		19:01	19:40	44	19:12 (23)		20:44
15	07:32	15:18 (24)	06:59		07:11	06:14		18:27 (23)	05:29		05:10
	16:41	45	16:03 (24)	17:24		19:02	19:41	45	19:12 (23)		20:44
16	07:31	15:18 (24)	06:57		07:09	06:12		18:26 (23)	05:28		05:10
	16:42	45	16:03 (24)	17:26		19:03	19:42	47	19:13 (23)		20:45
17	07:30	15:19 (24)	06:56		07:07	06:10		18:26 (23)	05:27		05:10
	16:44	45	16:04 (24)	17:27		19:05	19:44	47	19:13 (23)		20:45
18	07:30	15:19 (24)	06:54		07:05	06:09		06:29 (12)	05:26		05:10
	16:45	45	16:04 (24)	17:28		19:06	19:45	52	19:13 (23)		20:45
19	07:29	15:19 (24)	06:53		07:03	06:07		06:27 (12)	05:25		05:10
	16:46	45	16:04 (24)	17:30		19:07	19:46	56	19:13 (23)		20:46
20	07:28	15:19 (24)	06:51		07:01	06:05		06:26 (12)	05:24		05:10
	16:48	45	16:04 (24)	17:31		19:08	19:47	60	19:14 (23)		20:46
21	07:28	15:21 (24)	06:49		07:00	06:03		06:24 (12)	05:23		05:10
	16:49	44	16:05 (24)	17:33		19:10	19:49	62	19:13 (23)		20:46
22	07:27	15:21 (24)	06:48		06:58	06:02		06:22 (12)	05:22		05:11
	16:50	44	16:05 (24)	17:34		19:11	19:50	65	19:13 (23)		20:47
23	07:26	15:21 (24)	06:46		06:56	06:00		06:21 (12)	05:21		05:11
	16:52	44	16:05 (24)	17:35		19:12	19:51	67	19:13 (23)		20:47
24	07:25	15:22 (24)	06:44		06:54	05:59		06:19 (12)	05:20		05:11
	16:53	43	16:05 (24)	17:37		19:14	19:53	68	19:12 (23)		20:47
25	07:24	15:22 (24)	06:43		06:52	05:57		06:18 (12)	05:19		05:11
	16:54	43	16:05 (24)	17:38		19:15	19:54	69	19:13 (23)		20:47
26	07:23	15:23 (24)	06:41		06:50	05:55		06:16 (12)	05:18		05:12
	16:56	42	16:05 (24)	17:39		19:16	19:55	71	19:12 (23)		20:47
27	07:23	15:24 (24)	06:39		06:48	05:54		06:15 (12)	05:18		05:12
	16:57	41	16:05 (24)	17:41		19:17	19:56	71	19:12 (23)		20:47
28	07:22	15:24 (24)	06:38		06:46	05:52		06:13 (12)	05:17		05:13
	16:58	41	16:05 (24)	17:42		19:19	19:57	72	19:11 (23)		20:47
29	07:20	15:25 (24)			06:45	05:51		06:12 (12)	05:16		05:13
	17:00	39	16:04 (24)		19:20	19:59		19:11 (23)	20:32		20:47
30	07:19	15:26 (24)			06:43	05:49		06:10 (12)	05:15		05:14
	17:01	38	16:04 (24)		19:21	20:00		19:10 (23)	20:33		20:47
31	07:18	15:27 (24)			06:41				05:15		
	17:03	36	16:03 (24)		19:22				20:34		
Potential sun hours	286		291		369	404		459		466	
Total, worst case		1311		173		1294		565			
Sun reduction		0.41		0.48		0.49		0.56			
Oper. time red.		1.00		1.00		1.00		1.00			
Wind dir. red.		0.79		0.79		0.69		0.71			
Total reduction		0.33		0.38		0.34		0.40			
Total, real		430		66		444		226			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 114

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 230 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (819)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 20:47	05:42 20:25	18:49 (23) 19:04 (23)	06:18 19:35	18:31 (23) 18:39	06:54 16:46
2	05:15 20:47	05:43 20:24	18:46 (23) 19:07 (23)	06:19 19:33	18:32 (23) 18:37	06:55 16:45
3	05:15 20:47	05:44 20:23	18:44 (23) 19:08 (23)	06:20 19:31	18:33 (23) 19:05 (23)	06:56 16:44
4	05:16 20:46	05:45 20:21	06:27 (12) 19:11 (23)	06:22 19:30	18:34 (23) 19:02 (23)	06:58 16:42
5	05:16 20:46	05:46 20:20	06:24 (12) 19:12 (23)	06:23 19:28	18:38 (23) 19:00 (23)	06:59 16:41
6	05:17 20:46	05:47 20:19	06:23 (12) 19:13 (23)	06:24 19:26	18:41 (23) 18:56 (23)	07:00 18:30
7	05:18 20:46	05:48 20:17	06:21 (12) 19:14 (23)	06:25 19:24	07:01 18:28	06:42 16:38
8	05:18 20:45	05:50 20:16	06:20 (12) 19:15 (23)	06:26 19:22	07:03 18:26	06:44 16:37
9	05:19 20:45	05:51 20:15	06:19 (12) 19:16 (23)	06:28 19:20	07:04 18:24	06:45 16:36
10	05:20 20:44	05:52 20:13	06:18 (12) 19:16 (23)	06:29 19:19	07:05 18:22	06:46 16:35
11	05:21 20:44	05:53 20:12	06:17 (12) 19:17 (23)	06:30 19:17	07:06 18:20	06:48 16:33
12	05:22 20:43	05:54 20:10	06:17 (12) 19:17 (23)	06:31 19:15	07:08 18:19	06:49 16:32
13	05:22 20:43	05:56 20:09	06:19 (12) 19:18 (23)	06:32 19:13	07:09 18:17	06:50 16:31
14	05:23 20:42	05:57 20:07	06:20 (12) 19:18 (23)	06:33 19:11	07:10 18:15	06:52 16:30
15	05:24 20:41	05:58 20:06	06:21 (12) 19:19 (23)	06:35 19:09	07:11 18:13	06:53 16:29
16	05:25 20:41	05:59 20:04	06:22 (12) 19:19 (23)	06:36 19:07	07:13 18:12	06:55 16:28
17	05:26 20:40	06:00 20:03	06:23 (12) 19:19 (23)	06:37 19:05	07:14 18:10	06:56 16:27
18	05:27 20:39	06:01 20:01	06:24 (12) 19:18 (23)	06:38 19:03	07:15 18:08	06:57 16:26
19	05:28 20:38	06:03 19:58	06:25 (12) 19:18 (23)	06:39 19:01	07:17 18:07	06:59 16:25
20	05:29 20:38	06:04 19:56	06:26 (12) 19:18 (23)	06:41 19:00	07:18 18:05	07:00 16:24
21	05:30 20:37	06:05 19:54	06:28 (12) 19:19 (23)	06:42 18:58	07:19 18:03	07:01 16:24
22	05:31 20:36	06:06 19:53	06:29 (12) 19:18 (23)	06:43 18:56	07:21 18:02	07:02 16:23
23	05:32 20:35	06:07 19:51	06:30 (12) 19:18 (23)	06:44 18:54	07:22 18:00	07:04 16:22
24	05:33 20:34	06:09 19:49	06:31 (12) 19:17 (23)	06:45 18:52	07:23 17:58	07:05 16:21
25	05:34 20:33	06:10 19:48	06:32 (12) 19:16 (23)	06:47 18:50	07:25 17:57	07:06 16:21
26	05:35 20:32	06:11 19:46	18:28 (23) 19:15 (23)	06:48 18:48	07:26 17:55	07:08 16:20
27	05:36 20:31	06:12 19:44	18:28 (23) 19:14 (23)	06:49 18:46	07:27 17:54	07:09 16:19
28	05:37 20:30	06:13 19:42	18:29 (23) 19:14 (23)	06:50 18:44	07:29 17:52	07:10 16:19
29	05:38 20:29	06:14 19:41	18:29 (23) 19:13 (23)	06:51 18:43	07:30 17:51	07:11 16:18
30	05:39 20:28	06:16 19:39	18:30 (23) 19:12 (23)	06:53 18:41	07:31 17:49	07:12 16:18
31	05:40 20:26	18:54 (23) 18:59 (23)	06:17 19:37	19:10 (23)	07:33 17:48	16:18
Potential sun hours	472	5	436	376	341	288
Total, worst case	5		1700	170	1035	1205
Sun reduction	0.64		0.60	0.54	0.31	0.33
Oper. time red.	1.00		1.00	1.00	1.00	1.00
Wind dir. red.	0.67		0.70	0.67	0.79	0.79
Total reduction	0.44		0.42	0.37	0.25	0.26
Total, real	2		720	63	257	318

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 231 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (820)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:37 (24)	07:17	15:35 (24)	06:36	06:39		05:48		06:09 (12)	05:14
	16:26	19	15:56 (24)	17:04	16:19 (24)	17:43	19:24	20:00	69	19:25 (23)	20:34
2	07:35	15:37 (24)	07:16	15:35 (24)	06:34	06:37		05:46		06:07 (12)	05:14
	16:27	20	15:57 (24)	17:06	16:19 (24)	17:45	19:25	20:01	70	19:24 (23)	20:35
3	07:35	15:36 (24)	07:15	15:36 (24)	06:32	06:35		05:45		06:06 (12)	05:13
	16:28	22	15:58 (24)	17:07	16:20 (24)	17:46	19:26	20:02	71	19:24 (23)	20:36
4	07:35	15:36 (24)	07:14	15:36 (24)	06:31	06:33		05:43		06:04 (12)	05:13
	16:29	23	15:59 (24)	17:08	16:18 (24)	17:48	19:27	20:04	73	19:24 (23)	20:37
5	07:35	15:36 (24)	07:12	15:37 (24)	06:29	06:32		05:42		06:03 (12)	05:12
	16:30	25	16:01 (24)	17:10	16:18 (24)	17:49	19:29	20:05	73	19:24 (23)	20:38
6	07:35	15:36 (24)	07:11	15:38 (24)	06:27	06:30		05:40		06:02 (12)	05:12
	16:31	26	16:02 (24)	17:11	16:18 (24)	17:50	19:30	20:06	74	19:24 (23)	20:39
7	07:34	15:36 (24)	07:10	15:38 (24)	06:25	06:28		05:39		06:01 (12)	05:12
	16:32	28	16:04 (24)	17:13	16:17 (24)	17:52	19:31	20:07	73	19:23 (23)	20:39
8	07:34	15:35 (24)	07:09	15:35 (24)	06:24	06:26		05:38		05:59 (12)	05:11
	16:33	29	16:04 (24)	17:14	16:17 (24)	18:53	19:32	20:09	74	19:22 (23)	20:40
9	07:34	15:35 (24)	07:07	15:41 (24)	07:22	06:24		05:36		06:00 (12)	05:11
	16:34	30	16:05 (24)	17:16	16:16 (24)	18:54	19:34	20:10	72	19:22 (23)	20:41
10	07:34	15:35 (24)	07:06	15:42 (24)	07:20	06:23		05:35		06:01 (12)	05:11
	16:35	32	16:07 (24)	17:17	16:14 (24)	18:55	19:35	20:11	69	19:22 (23)	20:41
11	07:33	15:34 (24)	07:04	15:44 (24)	07:18	06:21		05:34		06:01 (12)	05:10
	16:36	33	16:07 (24)	17:18	16:14 (24)	18:57	19:36	20:12	68	19:21 (23)	20:42
12	07:33	15:35 (24)	07:03	15:45 (24)	07:16	06:19		05:33		06:01 (12)	05:10
	16:37	34	16:09 (24)	17:20	16:11 (24)	18:58	19:37	20:13	65	19:20 (23)	20:43
13	07:33	15:34 (24)	07:02	15:48 (24)	07:14	06:17		05:31		06:02 (12)	05:10
	16:39	35	16:09 (24)	17:21	16:10 (24)	18:59	19:39	20:15	61	19:19 (23)	20:43
14	07:32	15:34 (24)	07:00	15:51 (24)	07:13	06:15	18:57 (23)	05:30		06:04 (12)	05:10
	16:40	37	16:11 (24)	17:23	16:06 (24)	19:01	19:40	20:16	57	19:19 (23)	20:44
15	07:32	15:34 (24)	06:59	15:57 (24)	07:11	06:14	18:53 (23)	05:29		06:05 (12)	05:10
	16:41	37	16:11 (24)	17:24	16:01 (24)	19:02	19:41	20:17	52	19:18 (23)	20:44
16	07:31	15:33 (24)	06:57		07:09	06:12	18:49 (23)	05:28		06:07 (12)	05:10
	16:42	39	16:12 (24)	17:26		19:03	19:42	20:18	46	19:17 (23)	20:45
17	07:30	15:34 (24)	06:56		07:07	06:10	18:48 (23)	05:27		06:11 (12)	05:10
	16:44	39	16:13 (24)	17:27		19:05	19:44	20:19	37	19:16 (23)	20:45
18	07:30	15:33 (24)	06:54		07:05	06:09	18:46 (23)	05:26		18:44 (23)	05:10
	16:45	41	16:14 (24)	17:28		19:06	19:45	20:20	31	19:15 (23)	20:45
19	07:29	15:33 (24)	06:53		07:03	06:07	18:44 (23)	05:25		18:45 (23)	05:10
	16:46	42	16:15 (24)	17:30		19:07	19:46	20:21	29	19:14 (23)	20:46
20	07:28	15:33 (24)	06:51		07:01	06:05	18:43 (23)	05:24		18:46 (23)	05:10
	16:48	42	16:15 (24)	17:31		19:08	19:47	20:22	27	19:13 (23)	20:46
21	07:28	15:33 (24)	06:49		07:00	06:03	18:41 (23)	05:23		18:47 (23)	05:10
	16:49	43	16:16 (24)	17:33		19:10	19:49	20:24	25	19:12 (23)	20:46
22	07:27	15:33 (24)	06:48		06:58	06:02	18:40 (23)	05:22		18:49 (23)	05:11
	16:50	44	16:17 (24)	17:34		19:11	19:50	20:25	21	19:10 (23)	20:47
23	07:26	15:33 (24)	06:46		06:56	06:00	06:21 (12)	05:21		18:52 (23)	05:11
	16:52	44	16:17 (24)	17:35		19:12	19:51	20:26	17	19:09 (23)	20:47
24	07:25	15:33 (24)	06:44		06:54	05:59	06:19 (12)	05:20		18:54 (23)	05:11
	16:53	45	16:18 (24)	17:37		19:14	19:53	20:27	13	19:07 (23)	20:47
25	07:24	15:33 (24)	06:43		06:52	05:57	06:18 (12)	05:19		18:58 (23)	05:11
	16:54	45	16:18 (24)	17:38		19:15	19:54	20:28	5	19:03 (23)	20:47
26	07:23	15:33 (24)	06:41		06:50	05:55	06:16 (12)	05:18			05:12
	16:56	46	16:19 (24)	17:39		19:16	19:55	20:29			20:47
27	07:23	15:34 (24)	06:39		06:48	05:54	06:15 (12)	05:18			05:12
	16:57	45	16:19 (24)	17:41		19:17	19:56	20:30			20:47
28	07:22	15:34 (24)	06:38		06:46	05:52	06:13 (12)	05:17			05:13
	16:58	45	16:19 (24)	17:42		19:19	19:57	20:31			20:47
29	07:20	15:34 (24)			06:45	05:51	06:12 (12)	05:16			05:13
	17:00	46	16:20 (24)		19:20	19:59	19:25 (23)	20:32			20:47
30	07:19	15:35 (24)			06:43	05:49	06:10 (12)	05:15			05:14
	17:01	45	16:20 (24)		19:21	20:00	19:25 (23)	20:33			20:47
31	07:18	15:34 (24)			06:41			05:15			
	17:03	45	16:19 (24)		19:22			20:34			
Potential sun hours	286		291		369	404		459		466	
Total, worst case		1126		495		749		1272			
Sun reduction	0.41		0.48			0.49		0.56			
Oper. time red.	1.00		1.00			1.00		1.00			
Wind dir. red.	0.79		0.79			0.66		0.68			
Total reduction	0.33		0.39			0.33		0.39			
Total, real	372		191			247		495			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 231 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (820)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September/October		November		December	
1	05:14	05:42	06:12 (12)	06:18	06:54	06:34	15:11 (24)	07:14	15:16 (24)
2	05:15	05:43	65 19:31 (23)	19:35	18:39	16:46	33 15:44 (24)	16:18	15:50 (24)
3	05:15	05:44	67 19:31 (23)	19:33	18:37	16:35	35 15:10 (24)	07:15	15:17 (24)
4	05:16	05:45	71 19:32 (23)	19:31	18:35	16:45	38 15:45 (24)	16:17	15:49 (24)
5	05:16	05:46	73 19:33 (23)	19:30	18:33	16:37	39 15:09 (24)	07:16	15:18 (24)
6	05:17	05:47	74 19:33 (23)	19:28	18:31	16:44	40 15:47 (24)	16:17	15:49 (24)
7	05:18	05:48	74 19:33 (23)	19:26	18:30	16:38	41 15:08 (24)	07:17	15:20 (24)
8	05:18	05:50	73 19:33 (23)	19:24	18:28	16:42	39 15:47 (24)	16:16	15:49 (24)
9	05:19	05:51	72 19:33 (23)	19:22	18:26	16:40	40 15:08 (24)	07:18	15:21 (24)
10	05:20	05:52	71 19:33 (23)	19:19	18:22	16:41	40 15:48 (24)	16:16	15:49 (24)
11	05:21	05:53	70 19:33 (23)	19:17	18:20	16:41	40 15:07 (24)	07:19	15:22 (24)
12	05:22	05:54	69 19:33 (23)	19:15	18:19	16:40	41 15:48 (24)	16:16	15:48 (24)
13	05:22	05:56	69 19:33 (23)	19:13	18:17	16:42	42 15:07 (24)	07:20	15:23 (24)
14	05:23	05:57	65 19:33 (23)	19:11	18:15	16:38	42 15:49 (24)	16:16	15:48 (24)
15	05:24	05:58	62 19:32 (23)	19:09	18:13	16:44	42 15:06 (24)	07:21	15:24 (24)
16	05:25	05:59	60 19:32 (23)	19:07	18:12	16:37	43 15:49 (24)	16:16	15:48 (24)
17	05:26	06:00	57 19:31 (23)	19:05	18:10	16:45	44 15:50 (24)	16:16	15:47 (24)
18	05:27	06:01	53 19:30 (23)	19:03	18:08	16:46	45 15:06 (24)	07:22	15:25 (24)
19	05:28	19:05 (23)	49 19:29 (23)	19:01	18:07	16:36	44 15:50 (24)	16:16	15:47 (24)
20	05:29	19:02 (23)	44 19:28 (23)	19:00	18:05	16:40	45 15:51 (24)	16:16	15:47 (24)
21	05:30	19:00 (23)	42 19:28 (23)	18:58	18:03	16:40	45 15:06 (24)	07:23	15:26 (24)
22	05:31	18:59 (23)	41 19:27 (23)	18:56	18:02	16:34	45 15:51 (24)	16:16	15:45 (24)
23	05:32	18:57 (23)	38 19:25 (23)	18:54	18:00	16:35	46 15:52 (24)	16:16	15:45 (24)
24	05:33	18:56 (23)	36 19:24 (23)	18:52	17:58	16:36	46 15:52 (24)	16:16	15:45 (24)
25	05:34	18:55 (23)	33 19:22 (23)	18:50	17:57	16:37	46 15:52 (24)	16:16	15:45 (24)
26	05:35	18:54 (23)	30 19:20 (23)	18:48	17:55	16:38	46 15:52 (24)	16:16	15:45 (24)
27	05:36	18:53 (23)	26 19:18 (23)	18:46	17:54	16:39	46 15:52 (24)	16:16	15:45 (24)
28	05:37	18:52 (23)	20 19:15 (23)	18:44	17:52	16:40	46 15:52 (24)	16:16	15:45 (24)
29	05:38	18:51 (23)	13 19:11 (23)	18:43	17:51	16:41	46 15:52 (24)	16:16	15:45 (24)
30	05:39	18:50 (23)		18:42	17:50	16:42	46 15:52 (24)	16:16	15:45 (24)
31	05:41	18:49 (23)		18:41	17:49	16:43	46 15:52 (24)	16:16	15:45 (24)
Potential sun hours	472	436	376	341	288	275	487		
Total, worst case	451	1588	106	1245	487				
Sun reduction	0.64	0.60	0.47	0.31	0.33				
Oper. time red.	1.00	1.00	1.00	1.00	1.00				
Wind dir. red.	0.67	0.68	0.79	0.79	0.79				
Total reduction	0.43	0.41	0.38	0.25	0.27				
Total, real	196	655	40	311	129				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 232 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (821)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:38 (24)	07:17	15:34 (24)	06:36	06:39		05:48		06:09 (12)	05:14
2	07:35	15:38 (24)	07:16	15:35 (24)	06:34	06:37		05:46		06:07 (12)	05:14
3	07:35	15:37 (24)	07:15	15:35 (24)	06:32	06:35		05:45		06:06 (12)	05:13
4	07:35	15:37 (24)	07:14	15:35 (24)	06:31	06:33		05:43		06:04 (12)	05:13
5	07:35	15:37 (24)	07:12	15:36 (24)	06:29	06:32		05:42		06:03 (12)	05:12
6	07:35	15:37 (24)	07:11	15:37 (24)	06:27	06:30		05:40		06:02 (12)	05:12
7	07:34	15:37 (24)	07:10	15:37 (24)	06:25	06:28		05:39		06:01 (12)	05:12
8	07:34	15:36 (24)	07:09	15:39 (24)	07:24	06:26		05:38		05:59 (12)	05:11
9	07:34	15:36 (24)	07:07	15:40 (24)	07:22	06:24		05:36		05:58 (12)	05:11
10	07:34	15:36 (24)	07:06	15:41 (24)	07:20	06:23		05:35		05:59 (12)	05:11
11	07:33	15:35 (24)	07:04	15:42 (24)	07:18	06:21		05:34		06:00 (12)	05:10
12	07:33	15:35 (24)	07:03	15:43 (24)	07:16	06:19		05:33		06:00 (12)	05:10
13	07:33	15:34 (24)	07:02	15:46 (24)	07:14	06:17		05:31		06:01 (12)	05:10
14	07:32	15:35 (24)	07:00	15:47 (24)	07:13	06:15		05:30		06:02 (12)	05:10
15	07:32	15:34 (24)	06:59	15:51 (24)	07:11	06:14		05:29		06:03 (12)	05:10
16	07:31	15:33 (24)	06:57	16:01 (24)	07:09	06:12		05:28		06:05 (12)	05:10
17	07:30	15:34 (24)	06:56	16:07 (24)	07:07	06:10		05:27		06:07 (12)	05:10
18	07:30	15:33 (24)	06:54	16:14 (24)	07:05	06:09		05:26		06:09 (12)	05:10
19	07:29	15:33 (24)	06:53	16:21 (24)	07:03	06:07		05:25		06:11 (12)	05:10
20	07:28	15:33 (24)	06:51	16:28 (24)	07:01	06:05		05:24		06:13 (12)	05:10
21	07:28	15:33 (24)	06:49	16:35 (24)	06:59	06:03		05:23		06:15 (12)	05:10
22	07:27	15:33 (24)	06:48	16:42 (24)	06:57	06:02		05:22		06:17 (12)	05:11
23	07:26	15:33 (24)	06:46	16:49 (24)	06:55	06:00		05:21		06:19 (12)	05:11
24	07:25	15:33 (24)	06:44	16:56 (24)	06:53	05:59		05:20		06:21 (12)	05:11
25	07:24	15:33 (24)	06:43	17:03 (24)	06:51	05:57		05:19		06:23 (12)	05:11
26	07:23	15:33 (24)	06:41	17:10 (24)	06:49	05:55		05:18		06:25 (12)	05:12
27	07:23	15:33 (24)	06:39	17:17 (24)	06:47	05:53		05:17		06:27 (12)	05:12
28	07:22	15:33 (24)	06:38	17:24 (24)	06:45	05:51		05:16		06:29 (12)	05:13
29	07:20	15:34 (24)		17:31 (24)	06:43	05:49		05:15		06:31 (12)	05:13
30	07:19	15:34 (24)		17:38 (24)	06:41	05:47		05:14		06:33 (12)	05:14
31	07:18	15:34 (24)		17:45 (24)	06:39	05:45		05:13		06:35 (12)	05:14
Potential sun hours	286		291		369	404		459			466
Total, worst case	1119		551			624		1550			
Sun reduction	0.41		0.48			0.49		0.56			
Oper. time red.	1.00		1.00			1.00		1.00			
Wind dir. red.	0.79		0.79			0.66		0.67			
Total reduction	0.33		0.39			0.33		0.38			
Total, real	370		213			205		595			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 232 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (821)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September/October		November		December	
1	05:14	05:42	06:10 (12)	06:18	06:54	06:34	15:10 (24)	07:14	15:17 (24)
2	05:15	05:43	71 19:36 (23)	19:35	18:39	16:46	36 15:46 (24)	16:18	15:49 (24)
3	05:15	05:44	72 19:36 (23)	19:33	18:37	16:35	37 15:09 (24)	07:15	15:18 (24)
4	05:16	05:45	75 19:36 (23)	19:31	18:35	16:45	40 15:46 (24)	16:17	15:49 (24)
5	05:16	05:46	75 19:37 (23)	19:30	18:33	16:37	41 15:08 (24)	07:16	15:19 (24)
6	05:17	05:47	75 19:37 (23)	19:28	18:31	16:44	42 15:48 (24)	16:17	15:48 (24)
7	05:18	05:48	74 19:37 (23)	19:24	18:28	16:38	43 15:07 (24)	07:17	15:21 (24)
8	05:18	05:50	74 19:37 (23)	19:22	18:26	16:41	44 15:49 (24)	16:16	15:49 (24)
9	05:19	05:51	73 19:37 (23)	19:22	18:26	16:40	45 15:07 (24)	07:18	15:22 (24)
10	05:20	05:52	72 19:37 (23)	19:20	18:24	16:41	46 15:49 (24)	16:16	15:48 (24)
11	05:21	05:53	71 19:37 (23)	19:19	18:22	16:41	47 15:06 (24)	07:19	15:23 (24)
12	05:22	05:54	68 19:36 (23)	19:17	18:20	16:40	48 15:49 (24)	16:16	15:48 (24)
13	05:22	05:56	67 19:36 (23)	19:15	18:19	16:42	49 15:06 (24)	07:20	15:24 (24)
14	05:23	05:57	64 19:36 (23)	19:13	18:17	16:38	50 15:50 (24)	16:16	15:47 (24)
15	05:24	05:58	61 19:35 (23)	19:11	18:15	16:44	51 15:05 (24)	07:21	15:25 (24)
16	05:25	05:59	59 19:35 (23)	19:09	18:13	16:37	52 15:50 (24)	16:16	15:47 (24)
17	05:26	06:00	56 19:34 (23)	19:07	18:12	16:45	53 15:06 (24)	07:22	15:26 (24)
18	05:27	06:01	52 19:33 (23)	19:05	18:10	16:36	54 15:51 (24)	16:16	15:46 (24)
19	05:28	06:03	49 19:32 (23)	19:03	18:08	16:46	55 15:05 (24)	07:23	15:28 (24)
20	05:29	06:04	43 19:31 (23)	19:01	18:07	16:39	56 15:52 (24)	16:16	15:46 (24)
21	05:30	06:05	40 19:29 (23)	19:00	18:05	16:45	57 15:06 (24)	07:24	15:29 (24)
22	05:31	06:06	38 19:29 (23)	18:58	18:03	16:38	58 15:52 (24)	16:17	15:44 (24)
23	05:32	06:07	35 19:27 (23)	18:56	18:02	16:46	59 15:07 (24)	07:25	15:31 (24)
24	05:33	06:09	32 19:25 (23)	18:54	18:00	16:39	60 15:52 (24)	16:16	15:44 (24)
25	05:34	06:10	29 19:23 (23)	18:52	17:58	16:47	61 15:06 (24)	07:26	15:33 (24)
26	05:35	06:11	25 19:21 (23)	18:50	17:57	16:40	62 15:52 (24)	16:16	15:43 (24)
27	05:36	06:12	18 19:17 (23)	18:48	17:55	16:46	63 15:07 (24)	07:27	15:35 (24)
28	05:37	06:13	8 19:12 (23)	18:46	17:54	16:39	64 15:52 (24)	16:16	15:43 (24)
29	05:38	06:14	06:50	18:44	17:52	16:40	65 15:08 (24)	07:28	15:36 (24)
30	05:39	06:16	06:51	18:43	17:51	16:42	66 15:52 (24)	16:16	15:44 (24)
31	05:41	06:17	06:53	18:41	17:49	16:34	67 15:07 (24)	07:29	15:37 (24)
Potential sun hours	472	436	376	341	288	275	364		
Total, worst case	712	1477	140	1269	364				
Sun reduction	0.64	0.60	0.47	0.31	0.33				
Oper. time red.	1.00	1.00	1.00	1.00	1.00				
Wind dir. red.	0.66	0.67	0.79	0.79	0.79				
Total reduction	0.43	0.41	0.38	0.25	0.27				
Total, real	306	608	53	317	97				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 233 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (822)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35		07:17		15:39 (24)	06:36	06:39		05:48		06:09 (12)	05:14
	16:26		17:04	46	16:25 (24)	17:43	19:24		20:00	64	19:30 (23)	20:34
2	07:35		07:16		15:39 (24)	06:34	06:37		05:46		06:07 (12)	05:14
	16:27		17:06	46	16:25 (24)	17:45	19:25		20:01	65	19:29 (23)	20:35
3	07:35		07:15		15:40 (24)	06:32	06:35		05:45		06:06 (12)	05:13
	16:28		17:07	45	16:25 (24)	17:46	19:26		20:02	68	19:30 (23)	20:36
4	07:35		07:14		15:39 (24)	06:31	06:33		05:43		06:04 (12)	05:13
	16:29		17:08	46	16:25 (24)	17:48	19:27		20:04	70	19:29 (23)	20:37
5	07:35		07:12		15:40 (24)	06:29	06:32		05:42		06:03 (12)	05:12
	16:30		17:10	45	16:25 (24)	17:49	19:29		20:05	70	19:29 (23)	20:38
6	07:35	15:50 (24)	07:11		15:41 (24)	06:27	06:30		05:40		06:02 (12)	05:12
	16:31	8	15:58 (24)	44	16:25 (24)	17:50	19:30		20:06	72	19:30 (23)	20:39
7	07:34	15:48 (24)	07:10		15:41 (24)	06:25	06:28		05:39		06:01 (12)	05:12
	16:32	13	16:01 (24)	43	16:24 (24)	17:52	19:31		20:07	73	19:30 (23)	20:39
8	07:34	15:46 (24)	07:09		15:42 (24)	07:24	06:26		05:38		05:59 (12)	05:11
	16:33	16	16:02 (24)	42	16:24 (24)	18:53	19:32		20:09	73	19:29 (23)	20:40
9	07:34	15:46 (24)	07:07		15:43 (24)	07:22	06:24		05:36		05:58 (12)	05:11
	16:34	18	16:04 (24)	41	16:24 (24)	18:54	19:34		20:10	74	19:29 (23)	20:41
10	07:34	15:45 (24)	07:06		15:43 (24)	07:20	06:23		05:35		05:57 (12)	05:11
	16:35	21	16:06 (24)	39	16:22 (24)	18:55	19:35		20:11	75	19:29 (23)	20:41
11	07:33	15:44 (24)	07:04		15:45 (24)	07:18	06:21		05:34		05:56 (12)	05:10
	16:36	23	16:07 (24)	37	16:22 (24)	18:57	19:36		20:12	75	19:29 (23)	20:42
12	07:33	15:44 (24)	07:03		15:45 (24)	07:16	06:19		05:33		05:56 (12)	05:10
	16:37	25	16:09 (24)	36	16:21 (24)	18:58	19:37		20:13	73	19:27 (23)	20:43
13	07:33	15:42 (24)	07:02		15:47 (24)	07:14	06:17		05:31		05:57 (12)	05:10
	16:39	28	16:10 (24)	33	16:20 (24)	18:59	19:39		20:15	70	19:27 (23)	20:43
14	07:32	15:42 (24)	07:00		15:48 (24)	07:13	06:15		05:30		05:57 (12)	05:10
	16:40	30	16:12 (24)	30	16:18 (24)	19:01	19:40		20:16	69	19:27 (23)	20:44
15	07:32	15:42 (24)	06:59		15:50 (24)	07:11	06:14		05:29		05:58 (12)	05:10
	16:41	31	16:13 (24)	27	16:17 (24)	19:02	19:41		20:17	67	19:27 (23)	20:44
16	07:31	15:41 (24)	06:57		15:52 (24)	07:09	06:12		05:28		05:59 (12)	05:10
	16:42	33	16:14 (24)	22	16:14 (24)	19:03	19:42		20:18	63	19:26 (23)	20:45
17	07:30	15:41 (24)	06:56		15:56 (24)	07:07	06:10	19:05 (23)	05:27		06:00 (12)	05:10
	16:44	35	16:16 (24)	16	16:12 (24)	19:05	19:44	7	19:12 (23)	61	19:26 (23)	20:45
18	07:30	15:40 (24)	06:54		16:01 (24)	07:05	06:09	18:59 (23)	05:26		06:02 (12)	05:10
	16:45	36	16:16 (24)	4	16:05 (24)	19:06	19:45	18	19:17 (23)	55	19:25 (23)	20:45
19	07:29	15:40 (24)	06:53			07:03	06:07	18:55 (23)	05:25		06:03 (12)	05:10
	16:46	37	16:17 (24)			19:07	19:46	24	19:19 (23)	51	19:24 (23)	20:46
20	07:28	15:39 (24)	06:51			07:01	06:05	18:54 (23)	05:24		06:06 (12)	05:10
	16:48	39	16:18 (24)			19:08	19:47	28	19:22 (23)	45	19:24 (23)	20:46
21	07:28	15:40 (24)	06:49			07:00	06:03	18:51 (23)	05:23		18:47 (23)	05:10
	16:49	40	16:20 (24)			19:10	19:49	32	19:23 (23)	36	19:23 (23)	20:46
22	07:27	15:39 (24)	06:48			06:58	06:02	18:49 (23)	05:22		18:48 (23)	05:11
	16:50	41	16:20 (24)			19:11	19:50	35	19:24 (23)	34	19:22 (23)	20:47
23	07:26	15:39 (24)	06:46			06:56	06:00	18:48 (23)	05:21		18:50 (23)	05:11
	16:52	42	16:21 (24)			19:12	19:51	38	19:26 (23)	32	19:22 (23)	20:47
24	07:25	15:39 (24)	06:44			06:54	05:59	18:47 (23)	05:20		18:50 (23)	05:11
	16:53	43	16:22 (24)			19:14	19:53	39	19:26 (23)	31	19:21 (23)	20:47
25	07:24	15:39 (24)	06:43			06:52	05:57	18:46 (23)	05:19		18:51 (23)	05:11
	16:54	43	16:22 (24)			19:15	19:54	41	19:27 (23)	29	19:20 (23)	20:47
26	07:23	15:39 (24)	06:41			06:50	05:55	06:16 (12)	05:18		18:52 (23)	05:12
	16:56	44	16:23 (24)			19:16	19:55	46	19:28 (23)	27	19:19 (23)	20:47
27	07:23	15:39 (24)	06:39			06:48	05:54	06:15 (12)	05:18		18:54 (23)	05:12
	16:57	44	16:23 (24)			19:17	19:56	52	19:29 (23)	24	19:18 (23)	20:47
28	07:22	15:39 (24)	06:38			06:46	05:52	06:13 (12)	05:17		18:55 (23)	05:13
	16:58	45	16:24 (24)			19:19	19:57	55	19:29 (23)	22	19:17 (23)	20:47
29	07:20	15:39 (24)				06:45	05:51	06:12 (12)	05:16		18:56 (23)	05:13
	17:00	45	16:24 (24)			19:20	19:59	58	19:29 (23)	19	19:15 (23)	20:47
30	07:19	15:39 (24)				06:43	05:49	06:10 (12)	05:15		18:59 (23)	05:14
	17:01	46	16:25 (24)			19:21	20:00	61	19:29 (23)	16	19:15 (23)	20:47
31	07:18	15:38 (24)				06:41			05:15		19:00 (23)	
	17:03	46	16:24 (24)			19:22			20:34	12	19:12 (23)	
Potential sun hours	286		291		369	404		459		466		
Total, worst case		872		642		534		1615		6		
Sun reduction		0.41		0.48		0.49		0.56		0.59		
Oper. time red.		1.00		1.00		1.00		1.00		1.00		
Wind dir. red.		0.79		0.79		0.65		0.68		0.64		
Total reduction		0.33		0.39		0.32		0.38		0.38		
Total, real		288		248		173		622		2		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 120

Licensed user:

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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 233 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (822)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September/October		November		December	
1	05:14	05:42	06:06 (12)	06:18	06:54	06:34	15:13 (24)	07:14	15:26 (24)
2	05:15	05:43	73 19:38 (23)	19:35	18:39	16:46	39 15:52 (24)	16:18	15:50 (24)
3	05:15	05:44	75 19:38 (23)	19:33	18:37	16:35	42 15:53 (24)	16:17	15:49 (24)
4	05:16	05:45	74 19:38 (23)	19:31	18:35	16:37	43 15:54 (24)	16:17	15:47 (24)
5	05:16	05:46	72 19:39 (23)	19:30	18:33	16:38	44 15:54 (24)	16:16	15:47 (24)
6	05:17	05:47	72 19:39 (23)	19:28	18:31	16:40	45 15:55 (24)	16:16	15:46 (24)
7	05:18	05:48	72 19:39 (23)	19:26	18:30	16:41	45 15:55 (24)	16:16	15:46 (24)
8	05:18	05:50	72 19:39 (23)	19:24	18:28	16:42	45 15:55 (24)	16:16	15:46 (24)
9	05:19	05:51	70 19:39 (23)	19:22	18:26	16:44	46 15:55 (24)	16:16	15:46 (24)
10	05:20	05:52	69 19:39 (23)	19:20	18:24	16:45	46 15:56 (24)	16:16	15:46 (24)
11	05:21	05:53	67 19:38 (23)	19:19	18:22	16:46	46 15:56 (24)	16:16	15:46 (24)
12	05:22	05:54	65 19:38 (23)	19:17	18:20	16:48	46 15:56 (24)	16:16	15:46 (24)
13	05:22	19:10 (23) 05:54	62 19:37 (23)	19:15	18:19	16:33	46 15:56 (24)	16:16	15:46 (24)
14	05:23	19:08 (23) 05:56	60 19:38 (23)	19:13	18:17	16:34	46 15:56 (24)	16:16	15:46 (24)
15	05:24	19:06 (23) 05:57	57 19:37 (23)	19:11	18:15	16:35	45 15:56 (24)	16:16	15:46 (24)
16	05:25	19:05 (23) 05:58	54 19:36 (23)	19:09	18:13	16:36	45 15:56 (24)	16:16	15:46 (24)
17	05:26	19:04 (23) 05:59	50 19:35 (23)	19:07	18:12	16:37	44 15:56 (24)	16:16	15:46 (24)
18	05:27	19:03 (23) 06:00	45 19:34 (23)	19:05	18:10	16:38	43 15:56 (24)	16:17	15:46 (24)
19	05:28	19:02 (23) 06:01	41 19:33 (23)	19:03	18:08	16:39	43 15:56 (24)	16:17	15:46 (24)
20	05:29	19:01 (23) 06:02	39 19:32 (23)	19:01	18:07	16:40	42 15:56 (24)	16:17	15:46 (24)
21	05:30	19:00 (23) 06:03	37 19:31 (23)	18:59	18:05	16:41	41 15:56 (24)	16:18	15:46 (24)
22	05:31	18:59 (23) 06:04	35 19:30 (23)	18:58	18:03	16:42	40 15:56 (24)	16:18	15:46 (24)
23	05:32	18:58 (23) 06:05	32 19:29 (23)	18:56	18:02	16:43	39 15:56 (24)	16:19	15:46 (24)
24	05:33	18:57 (23) 06:06	28 19:28 (23)	18:54	18:00	16:44	37 15:56 (24)	16:19	15:46 (24)
25	05:34	18:56 (23) 06:07	23 19:27 (23)	18:52	17:58	16:45	36 15:56 (24)	16:20	15:46 (24)
26	05:35	18:55 (23) 06:08	17 19:26 (23)	18:50	17:57	16:46	35 15:56 (24)	16:20	15:46 (24)
27	05:36	18:54 (23) 06:09	5 19:25 (23)	18:48	17:55	16:47	34 15:56 (24)	16:21	15:46 (24)
28	05:37	18:53 (23) 06:10	06:49	17:54	17:54	16:48	31 15:56 (24)	16:22	15:46 (24)
29	05:38	18:52 (23) 06:11	06:50	17:53	17:53	16:49	30 15:56 (24)	16:22	15:46 (24)
30	05:39	18:51 (23) 06:12	06:51	17:52	17:52	16:50	28 15:56 (24)	16:23	15:46 (24)
31	05:40	18:50 (23) 06:13	06:52	17:51	17:51	16:51	25 15:56 (24)	16:24	15:46 (24)
Potential sun hours	472	436	376	341	288	275	101	0.33	1.00
Total, worst case	799	1369	218	1214	101	0.33	1.00	0.79	0.27
Sun reduction	0.64	0.60	0.47	0.31	0.25	0.27	0.27	0.27	0.27
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.67	0.67	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Total reduction	0.43	0.41	0.38	0.25	0.25	0.25	0.25	0.25	0.25
Total, real	347	561	82	303	27	27	27	27	27

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 234 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (823)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June		
1	07:35		07:17		15:38 (24)	06:36	06:39		05:48		06:09 (12)	05:14	
	16:26		17:04	47	16:25 (24)	17:43	19:24		20:00	61	19:32 (23)	20:34	
2	07:35		07:16		15:39 (24)	06:34	06:37		05:46		06:07 (12)	05:14	
	16:27		17:06	46	16:25 (24)	17:45	19:25		20:01	64	19:32 (23)	20:35	
3	07:35		07:15		15:39 (24)	06:32	06:35		05:45		06:06 (12)	05:13	
	16:28		17:07	47	16:26 (24)	17:46	19:26		20:02	66	19:32 (23)	20:36	
4	07:35		07:14		15:39 (24)	06:31	06:33		05:43		06:04 (12)	05:13	
	16:29		17:08	46	16:25 (24)	17:48	19:27		20:04	68	19:32 (23)	20:37	
5	07:35		07:12		15:39 (24)	06:29	06:32		05:42		06:03 (12)	05:12	
	16:30		17:10	46	16:25 (24)	17:49	19:29		20:05	70	19:32 (23)	20:38	
6	07:35		07:11		15:40 (24)	06:27	06:30		05:40		06:02 (12)	05:12	
	16:31		17:11	46	16:26 (24)	17:50	19:30		20:06	72	19:33 (23)	20:39	
7	07:34	15:50 (24)	07:10		15:40 (24)	06:25	06:28		05:39		06:01 (12)	05:12	
	16:32	9	15:59 (24)	45	16:25 (24)	17:52	19:31		20:07	73	19:33 (23)	20:39	
8	07:34	15:47 (24)	07:09		15:41 (24)	07:24	06:26		05:38		05:59 (12)	05:11	
	16:33	14	16:01 (24)	44	16:25 (24)	18:53	19:32		20:09	73	19:32 (23)	20:40	
9	07:34	15:47 (24)	07:07		15:42 (24)	07:22	06:24		05:36		05:58 (12)	05:11	
	16:34	16	16:03 (24)	43	16:25 (24)	18:54	19:34		20:10	74	19:32 (23)	20:41	
10	07:34	15:46 (24)	07:06		15:42 (24)	07:20	06:23		05:35		05:57 (12)	05:11	
	16:35	20	16:06 (24)	41	16:23 (24)	18:55	19:35		20:11	75	19:32 (23)	20:41	
11	07:33	15:44 (24)	07:04		15:43 (24)	07:18	06:21		05:34		05:56 (12)	05:10	
	16:36	23	16:07 (24)	40	16:23 (24)	18:57	19:36		20:12	76	19:32 (23)	20:42	
12	07:33	15:44 (24)	07:03		15:44 (24)	07:16	06:19		05:33		05:55 (12)	05:10	
	16:37	25	16:09 (24)	38	16:22 (24)	18:58	19:37		20:13	75	19:31 (23)	20:43	
13	07:33	15:43 (24)	07:02		15:46 (24)	07:14	06:17		05:31		05:55 (12)	05:10	
	16:39	27	16:10 (24)	35	16:21 (24)	18:59	19:39		20:15	74	19:31 (23)	20:43	
14	07:32	15:43 (24)	07:00		15:46 (24)	07:13	06:15		05:30		05:56 (12)	05:10	
	16:40	29	16:12 (24)	34	16:20 (24)	19:01	19:40		20:16	73	19:31 (23)	20:44	
15	07:32	15:42 (24)	06:59		15:48 (24)	07:11	06:14		05:29		05:57 (12)	05:10	
	16:41	31	16:13 (24)	31	16:19 (24)	19:02	19:41		20:17	70	19:31 (23)	20:44	
16	07:31	15:41 (24)	06:57		15:50 (24)	07:09	06:12		05:28		05:58 (12)	05:10	
	16:42	32	16:13 (24)	26	16:16 (24)	19:03	19:42		20:18	68	19:31 (23)	20:45	
17	07:30	15:41 (24)	06:56		15:53 (24)	07:07	06:10		05:27		05:59 (12)	05:10	
	16:44	34	16:15 (24)	22	16:15 (24)	19:05	19:44		20:19	64	19:30 (23)	20:45	
18	07:30	15:40 (24)	06:54		15:56 (24)	07:05	06:09		05:26		06:00 (12)	05:10	
	16:45	36	16:16 (24)	15	16:11 (24)	19:06	19:45		20:20	62	19:30 (23)	20:45	
19	07:29	15:40 (24)	06:53			07:03	06:07	19:08 (23)	05:25		06:02 (12)	05:10	
	16:46	37	16:17 (24)			19:07	19:46	5	19:13 (23)	20:21	57	19:30 (23)	20:46
20	07:28	15:39 (24)	06:51			07:01	06:05		05:24		06:03 (12)	05:10	
	16:48	39	16:18 (24)			19:08	19:47	17	19:19 (23)	20:22	53	19:29 (23)	20:46
21	07:28	15:40 (24)	06:49			07:00	06:03		05:23		18:47 (23)	05:10	
	16:49	40	16:20 (24)			19:10	19:49	24	19:22 (23)	20:24	42	19:29 (23)	20:46
22	07:27	15:39 (24)	06:48			06:58	06:02		05:22		18:47 (23)	05:11	
	16:50	41	16:20 (24)			19:11	19:50	28	19:23 (23)	20:25	41	19:26 (23)	20:47
23	07:26	15:39 (24)	06:46			06:56	06:00		05:21		18:49 (23)	05:11	
	16:52	42	16:21 (24)			19:12	19:51	32	19:26 (23)	20:26	39	19:26 (23)	20:47
24	07:25	15:39 (24)	06:44			06:54	05:59		05:20		18:49 (23)	05:11	
	16:53	43	16:22 (24)			19:14	19:53	34	19:26 (23)	20:27	39	19:26 (23)	20:47
25	07:24	15:39 (24)	06:43			06:52	05:57		05:19		18:50 (23)	05:11	
	16:54	43	16:22 (24)			19:15	19:54	37	19:28 (23)	20:28	37	19:27 (23)	20:47
26	07:23	15:38 (24)	06:41			06:50	05:55		05:18		18:50 (23)	05:12	
	16:56	45	16:23 (24)			19:16	19:55	41	19:29 (23)	20:29	36	19:26 (23)	20:47
27	07:23	15:38 (24)	06:39			06:48	05:54		05:18		18:52 (23)	05:12	
	16:57	46	16:24 (24)			19:17	19:56	45	19:30 (23)	20:30	34	19:26 (23)	20:47
28	07:22	15:38 (24)	06:38			06:46	05:52		05:17		18:52 (23)	05:13	
	16:58	46	16:24 (24)			19:19	19:57	50	19:30 (23)	20:31	33	19:25 (23)	20:47
29	07:20	15:38 (24)				06:45	05:51		05:16		18:53 (23)	05:13	
	17:00	47	16:25 (24)			19:20	19:59	54	19:31 (23)	20:32	31	19:24 (23)	20:47
30	07:19	15:39 (24)				06:43	05:49		05:15		18:54 (23)	05:14	
	17:01	46	16:25 (24)			19:21	20:00	58	19:31 (23)	20:33	30	19:24 (23)	20:47
31	07:18	15:38 (24)				06:41			05:15		18:55 (23)		
	17:03	47	16:25 (24)			19:22			20:34	28	19:23 (23)		
Potential sun hours	286		291			369	404		459		466		
Total, worst case		858		692			425		1758			162	
Sun reduction		0.41		0.48			0.49		0.56			0.59	
Oper. time red.		1.00		1.00			1.00		1.00			1.00	
Wind dir. red.		0.79		0.79			0.65		0.67			0.64	
Total reduction		0.33		0.39			0.32		0.38			0.38	
Total, real		283		268			137		671			62	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
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Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 234 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (823)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September/October		November		December	
1	05:14	05:42	06:05 (12)	06:18	06:54	06:34	15:12 (24)	07:14	15:26 (24)
2	05:15	05:43	06:06 (12)	06:19	06:55	06:35	15:11 (24)	07:15	15:28 (24)
3	05:15	19:14 (23) 05:44	06:07 (12)	06:20	06:56	06:37	15:11 (24)	07:16	15:29 (24)
4	05:16	19:18 (23) 05:45	06:09 (12)	06:22	06:58	06:38	15:10 (24)	07:17	15:32 (24)
5	05:16	19:20 (23) 05:46	06:10 (12)	06:23	06:59	06:40	15:10 (24)	07:18	15:35 (24)
6	05:17	19:23 (23) 05:47	06:11 (12)	06:24	07:00	06:41	15:09 (24)	07:19	15:44 (24)
7	05:18	19:24 (23) 05:48	06:12 (12)	06:25	07:01	06:42	15:09 (24)	07:20	15:49 (24)
8	05:18	19:25 (23) 05:50	06:13 (12)	06:26	07:03	06:44	15:09 (24)	07:21	15:52 (24)
9	05:19	19:27 (23) 05:51	06:14 (12)	06:28	07:04	06:45	15:09 (24)	07:22	15:54 (24)
10	05:20	19:28 (23) 05:52	06:15 (12)	06:29	07:05	06:46	15:09 (24)	07:23	15:56 (24)
11	05:21	19:29 (23) 05:53	06:16 (12)	06:30	07:06	06:48	15:10 (24)	07:24	15:57 (24)
12	05:22	19:30 (23) 05:54	06:17 (12)	06:31	07:08	06:49	15:10 (24)	07:25	15:58 (24)
13	05:22	19:31 (23) 05:56	06:19 (12)	06:32	07:09	06:50	15:10 (24)	07:26	15:59 (24)
14	05:23	19:32 (23) 05:57	06:20 (12)	06:33	07:10	06:52	15:10 (24)	07:26	16:00 (24)
15	05:24	19:33 (23) 05:58	06:21 (12)	06:35	07:11	06:53	15:11 (24)	07:27	16:01 (24)
16	05:25	19:34 (23) 05:59	06:22 (12)	06:36	07:13	06:55	15:11 (24)	07:28	16:02 (24)
17	05:26	19:35 (23) 06:00	06:23 (12)	06:37	07:14	06:56	15:12 (24)	07:29	16:03 (24)
18	05:27	19:36 (23) 06:01	06:24 (12)	06:38	07:15	06:57	15:13 (24)	07:29	16:04 (24)
19	05:28	19:37 (23) 06:03	06:25 (12)	06:39	07:17	06:59	15:13 (24)	07:30	16:05 (24)
20	05:29	19:38 (23) 06:04	06:26 (12)	06:41	07:18	07:00	15:14 (24)	07:31	16:06 (24)
21	05:30	19:39 (23) 06:05	06:27 (12)	06:42	07:19	07:01	15:15 (24)	07:31	16:07 (24)
22	05:31	19:40 (23) 06:06	06:28 (12)	06:43	07:21	07:02	15:15 (24)	07:32	16:08 (24)
23	05:32	19:41 (23) 06:07	06:29 (12)	06:44	07:22	07:03	15:16 (24)	07:32	16:09 (24)
24	05:33	19:42 (23) 06:09	06:30 (12)	06:45	07:23	07:04	15:17 (24)	07:33	16:10 (24)
25	05:34	19:43 (23) 06:10	06:31 (12)	06:46	07:24	07:05	15:18 (24)	07:33	16:11 (24)
26	05:35	19:44 (23) 06:11	06:32 (12)	06:47	07:25	07:06	15:19 (24)	07:33	16:12 (24)
27	05:36	19:45 (23) 06:12	06:33 (12)	06:48	07:26	07:07	15:20 (24)	07:33	16:13 (24)
28	05:37	19:46 (23) 06:13	06:34 (12)	06:49	07:27	07:08	15:21 (24)	07:34	16:14 (24)
29	05:38	19:47 (23) 06:14	06:35 (12)	06:50	07:28	07:09	15:22 (24)	07:34	16:15 (24)
30	05:39	19:48 (23) 06:16	06:36 (12)	06:51	07:30	07:10	15:23 (24)	07:34	16:16 (24)
31	05:41	19:49 (23) 06:17	06:37 (12)	06:52	07:31	07:11	15:24 (24)	07:34	16:17 (24)
Potential sun hours	472	436	376	341	288	275			
Total, worst case	1116	1254	258	1226	84				
Sun reduction	0.64	0.60	0.47	0.31	0.33				
Oper. time red.	1.00	1.00	1.00	1.00	1.00				
Wind dir. red.	0.66	0.67	0.79	0.79	0.79				
Total reduction	0.43	0.41	0.38	0.25	0.27				
Total, real	478	512	98	306	22				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 235 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (824)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35		07:17	15:48 (24)	06:36	06:39		05:48		06:09 (12)	05:14
	16:26		17:04	16:33 (24)	17:43	19:24		20:00	36	19:36 (23)	20:34
2	07:35		07:16	15:48 (24)	06:34	06:37		05:46		06:07 (12)	05:14
	16:27		17:06	16:34 (24)	17:45	19:25		20:01	41	19:36 (23)	20:35
3	07:35		07:15	15:48 (24)	06:32	06:35		05:45		06:06 (12)	05:13
	16:28		17:07	16:34 (24)	17:46	19:26		20:02	46	19:38 (23)	20:36
4	07:35		07:14	15:47 (24)	06:31	06:33		05:43		06:04 (12)	05:13
	16:29		17:08	16:34 (24)	17:48	19:27		20:04	50	19:38 (23)	20:37
5	07:35		07:12	15:47 (24)	06:29	06:32		05:42		06:03 (12)	05:12
	16:30		17:10	16:35 (24)	17:49	19:29		20:05	53	19:39 (23)	20:38
6	07:35		07:11	15:48 (24)	06:27	06:30		05:40		06:02 (12)	05:12
	16:31		17:11	16:35 (24)	17:50	19:30		20:06	57	19:40 (23)	20:39
7	07:34		07:10	15:47 (24)	06:25	06:28		05:39		06:01 (12)	05:12
	16:32		17:13	16:35 (24)	17:52	19:31		20:07	60	19:41 (23)	20:39
8	07:34		07:09	15:47 (24)	07:24	06:26		05:38		05:59 (12)	05:11
	16:33		17:14	16:35 (24)	18:53	19:32		20:09	63	19:41 (23)	20:40
9	07:34		07:07	15:48 (24)	07:22	06:24		05:36		05:58 (12)	05:11
	16:34		17:16	16:36 (24)	18:54	19:34		20:10	65	19:41 (23)	20:41
10	07:34		07:06	15:48 (24)	07:20	06:23		05:35		05:57 (12)	05:11
	16:35		17:17	16:35 (24)	18:55	19:35		20:11	67	19:42 (23)	20:41
11	07:33		07:04	15:48 (24)	07:18	06:21		05:34		05:56 (12)	05:10
	16:36		17:18	16:36 (24)	18:57	19:36		20:12	68	19:42 (23)	20:42
12	07:33		07:03	15:48 (24)	07:16	06:19		05:33		05:54 (12)	05:10
	16:37		17:20	16:35 (24)	18:58	19:37		20:13	71	19:42 (23)	20:43
13	07:33		07:02	15:49 (24)	07:14	06:17		05:31		05:53 (12)	05:10
	16:39		17:21	16:35 (24)	18:59	19:39		20:15	72	19:42 (23)	20:43
14	07:32		07:00	15:49 (24)	07:13	06:15		05:30		05:52 (12)	05:10
	16:40		17:23	16:34 (24)	19:01	19:40		20:16	74	19:43 (23)	20:44
15	07:32		06:59	15:50 (24)	07:11	06:14		05:29		05:51 (12)	05:10
	16:41		17:24	16:34 (24)	19:02	19:41		20:17	74	19:43 (23)	20:44
16	07:31		06:57	15:50 (24)	07:09	06:12		05:28		05:50 (12)	05:10
	16:42		17:26	16:33 (24)	19:03	19:42		20:18	75	19:43 (23)	20:45
17	07:30		06:56	15:52 (24)	07:07	06:10		05:27		05:49 (12)	05:10
	16:44		17:27	16:33 (24)	19:05	19:44		20:19	76	19:43 (23)	20:45
18	07:30	16:01 (24)	06:54	15:52 (24)	07:05	06:09		05:26		05:49 (12)	05:10
	16:45	12	16:13 (24)	17:28	16:31 (24)	19:06	19:45	20:20	75	19:43 (23)	20:45
19	07:29		06:53	15:54 (24)	07:03	06:07		05:25		05:50 (12)	05:10
	16:46	17	16:16 (24)	17:30	16:31 (24)	19:07	19:46	20:21	74	19:43 (23)	20:46
20	07:28		06:51	15:55 (24)	07:01	06:05		05:24		05:50 (12)	05:10
	16:48	21	16:18 (24)	17:31	16:29 (24)	19:08	19:47	20:22	73	19:43 (23)	20:46
21	07:28		06:49	15:56 (24)	07:00	06:03		05:23		05:51 (12)	05:10
	16:49	25	16:21 (24)	17:33	16:27 (24)	19:10	19:49	20:24	71	19:43 (23)	20:46
22	07:27		06:48	15:55 (24)	06:58	06:02		05:22		05:52 (12)	05:11
	16:50	27	16:22 (24)	17:34	16:26 (24)	19:11	19:50	20:25	70	19:43 (23)	20:47
23	07:26		06:46	15:54 (24)	06:56	06:00		05:21		05:53 (12)	05:11
	16:52	30	16:24 (24)	17:35	16:23 (24)	19:12	19:51	20:26	68	19:43 (23)	20:47
24	07:25		06:44	15:53 (24)	06:54	05:59		05:20		05:54 (12)	05:11
	16:53	32	16:25 (24)	17:37	16:19 (24)	19:14	19:53	20:27	66	19:43 (23)	20:47
25	07:24		06:43	15:52 (24)	06:43	05:57		05:19		05:55 (12)	05:11
	16:54	35	16:27 (24)	17:38		19:15	19:54	20:28	63	19:43 (23)	20:47
26	07:23		06:41	15:51 (24)	06:41	05:50		05:18		05:56 (12)	05:12
	16:56	37	16:28 (24)	17:39		19:16	19:55	20:29	60	19:42 (23)	20:47
27	07:23		06:39	15:51 (24)	06:39	05:48		05:18		05:59 (12)	05:12
	16:57	38	16:29 (24)	17:41		19:17	19:56	19:27 (23)	56	19:43 (23)	20:47
28	07:22		06:38	15:50 (24)	06:38	05:46		05:17		18:56 (23)	05:13
	16:58	40	16:30 (24)	17:42		19:19	19:57	19:30 (23)	46	19:42 (23)	20:47
29	07:20		06:37	15:50 (24)	06:37	05:45		05:16		18:56 (23)	05:13
	17:00	41	16:31 (24)		06:43	19:20	19:59	19:33 (23)	46	19:42 (23)	20:47
30	07:19		06:36	15:49 (24)	06:36	05:43		05:15		18:57 (23)	05:14
	17:01	43	16:32 (24)		06:43	19:21	20:00	19:34 (23)	45	19:42 (23)	20:47
31	07:18		06:35	15:48 (24)	06:35	05:41		05:15		18:57 (23)	
	17:03	44	16:32 (24)		06:41	19:22		20:34	45	19:42 (23)	
Potential sun hours	286		291		369	404		459		466	
Total, worst case		442		989			91		1906		1146
Sun reduction	0.41		0.48				0.49		0.56		0.59
Oper. time red.	1.00		1.00				1.00		1.00		1.00
Wind dir. red.	0.79		0.79				0.62		0.66		0.62
Total reduction	0.33		0.39				0.31		0.38		0.37
Total, real	146		382			28		720		427	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 124

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 235 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (824)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	19:07 (23)	05:42	06:05 (12)	06:18	06:54		06:34		15:17 (24)	07:14
2	05:15	19:07 (23)	05:43	06:06 (12)	06:19	06:55		06:35		15:17 (24)	07:15
3	05:15	19:07 (23)	05:44	06:07 (12)	06:20	06:56		06:37		15:17 (24)	07:16
4	05:16	19:06 (23)	05:45	06:09 (12)	06:22	06:58		06:38		15:17 (24)	07:17
5	05:16	19:07 (23)	05:46	06:10 (12)	06:23	06:59		06:40		15:17 (24)	07:18
6	05:17	19:07 (23)	05:47	06:11 (12)	06:24	07:00		06:41		15:17 (24)	07:19
7	05:18	19:06 (23)	05:48	06:12 (12)	06:25	07:01		06:42		15:18 (24)	07:20
8	05:18	19:06 (23)	05:50	06:13 (12)	06:26	07:03		06:44		15:18 (24)	07:21
9	05:19	19:06 (23)	05:51	06:14 (12)	06:28	07:04		06:45		15:19 (24)	07:22
10	05:20	19:06 (23)	05:52	06:15 (12)	06:29	07:05		06:46		15:19 (24)	07:23
11	05:21	19:06 (23)	05:53	06:16 (12)	06:30	07:06		06:48		15:20 (24)	07:24
12	05:22	19:06 (23)	05:54	06:17 (12)	06:31	07:08		06:49		15:20 (24)	07:25
13	05:22	19:06 (23)	05:56	06:18 (12)	06:32	07:09		06:50		15:22 (24)	07:26
14	05:23	19:06 (23)	05:57	06:19 (12)	06:33	07:10		06:52		15:22 (24)	07:26
15	05:24	19:06 (23)	05:58	06:20 (12)	06:34	07:11		06:53		15:24 (24)	07:27
16	05:25	19:05 (23)	05:59	06:21 (12)	06:35	07:12		06:55		15:24 (24)	07:28
17	05:26	19:05 (23)	06:00	06:22 (12)	06:36	07:13		06:56		15:25 (24)	07:29
18	05:27	19:05 (23)	06:01	06:23 (12)	06:37	07:14	8	06:58	16:40 (24)	15:25 (24)	07:29
19	05:28	19:05 (23)	06:02	06:24 (12)	06:38	07:15	18	06:59	16:41 (24)	15:26 (24)	07:30
20	05:29	19:05 (23)	06:03	06:25 (12)	06:39	07:16	24	07:00	16:42 (24)	15:27 (24)	07:31
21	05:30	19:05 (23)	06:04	06:26 (12)	06:40	07:17	28	07:01	16:43 (24)	15:28 (24)	07:31
22	05:31	19:05 (23)	06:05	06:27 (12)	06:41	07:18	32	07:02	16:44 (24)	15:29 (24)	07:32
23	05:32	19:05 (23)	06:06	06:28 (12)	06:42	07:19	35	07:03	16:45 (24)	15:30 (24)	07:32
24	05:33	19:05 (23)	06:07	06:29 (12)	06:43	07:20	38	07:04	16:46 (24)	15:31 (24)	07:33
25	05:34	19:05 (23)	06:08	06:30 (12)	06:44	07:21	39	07:05	16:47 (24)	15:32 (24)	07:33
26	05:35	19:05 (23)	06:09	06:31 (12)	06:45	07:22	41	07:06	16:48 (24)	15:33 (24)	07:34
27	05:36	19:05 (23)	06:10	06:32 (12)	06:46	07:23	43	07:07	16:49 (24)	15:34 (24)	07:34
28	05:37	19:05 (23)	06:11	06:33 (12)	06:47	07:24	44	07:08	16:50 (24)	15:35 (24)	07:34
29	05:38	19:05 (23)	06:12	06:34 (12)	06:48	07:25	45	07:09	16:51 (24)	15:36 (24)	07:35
30	05:39	19:05 (23)	06:13	06:35 (12)	06:49	07:26	46	07:10	16:52 (24)	15:37 (24)	07:35
31	05:41	19:05 (23)	06:14	06:36 (12)	06:50	07:27	47	07:11	16:53 (24)	15:38 (24)	07:35
Potential sun hours	472	436	376	341	288	275					
Total, worst case	1740	749	535	912							
Sun reduction	0.64	0.60	0.47	0.31							
Oper. time red.	1.00	1.00	1.00	1.00							
Wind dir. red.	0.65	0.66	0.79	0.79							
Total reduction	0.42	0.40	0.38	0.25							
Total, real	739	300	202	228							

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 125

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 236 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (825)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June					
1	07:35 16:26	07:17 17:04	16:03 (24) 16:37 (24)	06:36 17:43	16:13 (24) 19:24	06:39 20:00	05:48 2	19:26 (23) 19:28 (23)	05:14 20:34	05:50 (12) 64	19:51 (23)
2	07:35 16:27	07:16 17:06	16:02 (24) 16:39 (24)	06:34 17:45	16:19 (24) 19:25	06:37 20:01	05:46 15	19:19 (23) 19:34 (23)	05:14 20:35	05:50 (12) 63	19:51 (23)
3	07:35 16:28	07:15 17:07	16:02 (24) 16:40 (24)	06:32 17:46	16:23 (24) 19:26	06:35 20:02	05:45 21	19:16 (23) 19:37 (23)	05:13 20:36	05:52 (12) 59	19:51 (23)
4	07:35 16:29	07:14 17:08	16:00 (24) 16:40 (24)	06:31 17:48	19:27	06:33 20:04	05:43 26	19:13 (23) 19:39 (23)	05:13 20:37	05:52 (12) 58	19:51 (23)
5	07:35 16:30	07:12 17:10	16:00 (24) 16:42 (24)	06:29 17:49	06:32 19:29	05:42 20:05	05:42 31	06:03 (12) 19:41 (23)	05:12 20:38	05:54 (12) 55	19:51 (23)
6	07:35 16:31	07:11 17:11	16:00 (24) 16:43 (24)	06:27 17:50	06:30 19:30	05:40 20:06	05:40 37	06:02 (12) 19:42 (23)	05:12 20:39	05:57 (12) 49	19:51 (23)
7	07:34 16:32	07:10 17:13	15:58 (24) 16:43 (24)	06:25 17:52	06:28 19:31	05:39 20:07	05:39 42	06:01 (12) 19:44 (23)	05:12 20:39	19:06 (23) 45	19:51 (23)
8	07:34 16:33	07:09 17:14	15:58 (24) 16:44 (24)	07:24 18:53	06:26 19:32	05:38 20:09	05:38 45	05:59 (12) 19:44 (23)	05:11 20:40	19:06 (23) 45	19:51 (23)
9	07:34 16:34	07:07 17:16	15:58 (24) 16:45 (24)	07:22 18:54	06:24 19:34	05:36 20:10	05:36 49	05:58 (12) 19:45 (23)	05:11 20:41	19:07 (23) 44	19:51 (23)
10	07:34 16:35	07:06 17:17	15:58 (24) 16:44 (24)	07:20 18:55	06:23 19:35	05:35 20:11	05:35 53	05:57 (12) 19:46 (23)	05:11 20:41	19:07 (23) 44	19:51 (23)
11	07:33 16:36	07:04 17:18	15:58 (24) 16:45 (24)	07:18 18:57	06:21 19:36	05:34 20:12	05:34 56	05:56 (12) 19:47 (23)	05:10 20:42	19:08 (23) 44	19:52 (23)
12	07:33 16:37	07:03 17:20	15:57 (24) 16:45 (24)	07:16 18:58	06:19 19:37	05:33 20:13	05:33 59	05:54 (12) 19:47 (23)	05:10 20:43	19:07 (23) 44	19:51 (23)
13	07:33 16:39	07:02 17:21	15:58 (24) 16:46 (24)	07:14 18:59	06:17 19:39	05:31 20:15	05:31 61	05:53 (12) 19:47 (23)	05:10 20:43	19:08 (23) 43	19:51 (23)
14	07:32 16:40	07:00 17:23	15:57 (24) 16:45 (24)	07:13 19:01	06:15 19:40	05:30 20:16	05:30 64	05:52 (12) 19:48 (23)	05:10 20:44	19:08 (23) 43	19:51 (23)
15	07:32 16:41	06:59 17:24	15:58 (24) 16:46 (24)	07:11 19:02	06:14 19:41	05:29 20:17	05:29 65	05:51 (12) 19:48 (23)	05:10 20:44	19:09 (23) 42	19:51 (23)
16	07:31 16:42	06:57 17:26	15:57 (24) 16:45 (24)	07:09 19:03	06:12 19:42	05:28 20:18	05:28 67	05:50 (12) 19:49 (23)	05:10 20:45	19:09 (23) 42	19:51 (23)
17	07:30 16:44	06:56 17:27	15:58 (24) 16:45 (24)	07:07 19:05	06:10 19:44	05:27 20:19	05:27 68	05:49 (12) 19:49 (23)	05:10 20:45	19:09 (23) 42	19:51 (23)
18	07:30 16:45	06:54 17:28	15:58 (24) 16:45 (24)	07:05 19:06	06:09 19:45	05:26 20:20	05:26 70	05:48 (12) 19:49 (23)	05:10 20:45	19:09 (23) 43	19:52 (23)
19	07:29 16:46	06:53 17:30	15:59 (24) 16:45 (24)	07:03 19:07	06:07 19:46	05:25 20:21	05:25 72	05:47 (12) 19:50 (23)	05:10 20:46	19:10 (23) 43	19:53 (23)
20	07:28 16:48	06:51 17:31	15:59 (24) 16:44 (24)	07:01 19:08	06:05 19:47	05:24 20:22	05:24 73	05:46 (12) 19:50 (23)	05:10 20:46	19:11 (23) 42	19:53 (23)
21	07:28 16:49	06:49 17:33	16:00 (24) 16:43 (24)	07:00 19:10	06:03 19:49	05:23 20:24	05:23 74	05:45 (12) 19:50 (23)	05:10 20:46	19:11 (23) 42	19:53 (23)
22	07:27 16:50	06:48 17:34	16:01 (24) 16:43 (24)	06:58 19:11	06:02 19:50	05:22 20:25	05:22 74	05:44 (12) 19:50 (23)	05:11 20:47	19:11 (23) 42	19:53 (23)
23	07:26 16:52	06:46 17:35	16:02 (24) 16:41 (24)	06:56 19:12	06:00 19:51	05:21 20:26	05:21 75	05:44 (12) 19:51 (23)	05:11 20:47	19:10 (23) 43	19:53 (23)
24	07:25 16:53	06:44 17:37	16:02 (24) 16:40 (24)	06:54 19:14	05:59 19:53	05:20 20:27	05:20 74	05:44 (12) 19:51 (23)	05:11 20:47	19:11 (23) 43	19:54 (23)
25	07:24 16:54	06:43 17:38	16:04 (24) 16:39 (24)	06:52 19:15	05:57 19:54	05:19 20:28	05:19 74	05:44 (12) 19:50 (23)	05:11 20:47	19:11 (23) 43	19:54 (23)
26	07:23 16:56	16:14 (24) 16:24 (24)	06:41 17:39	06:50 19:16	05:55 19:55	05:18 20:29	05:18 72	05:45 (12) 19:50 (23)	05:12 20:47	19:11 (23) 42	19:53 (23)
27	07:23 16:57	16:11 (24) 16:28 (24)	06:39 17:41	06:48 19:17	05:54 19:56	05:18 20:30	05:18 72	05:46 (12) 19:51 (23)	05:12 20:47	19:12 (23) 42	19:54 (23)
28	07:22 16:58	16:09 (24) 16:31 (24)	06:38 17:42	06:46 19:19	05:52 19:57	05:17 20:31	05:17 71	05:46 (12) 19:51 (23)	05:13 20:47	19:11 (23) 43	19:54 (23)
29	07:20 17:00	16:07 (24) 16:33 (24)		06:45 19:20	05:51 19:59	05:16 20:32	05:16 68	05:47 (12) 19:50 (23)	05:13 20:47	19:12 (23) 43	19:55 (23)
30	07:19 17:01	16:06 (24) 16:35 (24)		06:43 19:21	05:49 20:00	05:15 20:33	05:15 67	05:48 (12) 19:51 (23)	05:14 20:47	19:12 (23) 43	19:55 (23)
31	07:18 17:03	16:04 (24) 16:36 (24)		06:41 19:22		05:15 20:34		05:48 (12) 19:51 (23)			
Potential sun hours	286	291		369	404	459				466	
Total, worst case	136			21		1763				1380	
Sun reduction	0.41			0.51		0.56				0.59	
Oper. time red.	1.00			1.00		1.00				1.00	
Wind dir. red.	0.79			0.79		0.66				0.62	
Total reduction	0.33			0.41		0.38				0.37	
Total, real	45			9		664				513	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 236 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (825)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	19:12 (23)	05:42	06:05 (12)	06:18	06:54		06:34		15:27 (24)	07:14
2	05:15	19:12 (23)	05:43	06:06 (12)	06:19	06:55		06:35		15:27 (24)	07:15
3	05:15	19:12 (23)	05:44	06:07 (12)	06:20	06:56		06:37		15:28 (24)	07:16
4	05:16	19:12 (23)	05:45	06:09 (12)	06:22	06:58		06:38		15:28 (24)	07:17
5	05:16	19:12 (23)	05:46	06:10 (12)	06:23	06:59		06:40		15:29 (24)	07:18
6	05:17	19:12 (23)	05:47	06:11 (12)	06:24	07:00		06:41		15:30 (24)	07:19
7	05:18	19:12 (23)	05:48	06:12 (12)	06:25	07:01		06:42		15:31 (24)	07:20
8	05:18	19:12 (23)	05:49	06:13 (12)	06:26	07:03		06:44		15:32 (24)	07:21
9	05:19	19:12 (23)	05:51	06:14 (12)	06:28	07:04		06:45		15:33 (24)	07:22
10	05:20	19:12 (23)	05:52	06:15 (12)	06:29	07:05		06:46		15:34 (24)	07:23
11	05:21	19:12 (23)	05:53	06:16 (12)	06:30	07:06		06:48		15:36 (24)	07:24
12	05:22	19:12 (23)	05:54	06:17 (12)	06:31	07:08		06:49		15:37 (24)	07:25
13	05:22	19:12 (23)	05:55	06:18 (12)	06:32	07:09		06:50		15:39 (24)	07:26
14	05:23	19:12 (23)	05:56	06:19 (12)	06:33	07:10		06:52		15:41 (24)	07:26
15	05:24	19:12 (23)	05:57	06:20 (12)	06:34	07:11		06:53		15:44 (24)	07:27
16	05:25	19:12 (23)	05:58	06:21 (12)	06:35	07:13		06:55		15:48 (24)	07:28
17	05:26	19:12 (23)	05:59	06:22 (12)	06:36	07:14		06:56		15:51 (24)	07:29
18	05:27	19:12 (23)	06:00	06:23 (12)	06:37	07:15		06:57		15:54 (24)	07:30
19	05:28	19:12 (23)	06:01	06:24 (12)	06:38	07:16		06:58		15:57 (24)	07:31
20	05:29	19:12 (23)	06:02	06:25 (12)	06:39	07:17		06:59		16:00 (24)	07:32
21	05:30	19:12 (23)	06:03	06:26 (12)	06:40	07:18		07:00		16:03 (24)	07:33
22	05:31	19:12 (23)	06:04	06:27 (12)	06:41	07:19		07:01		16:06 (24)	07:34
23	05:32	19:12 (23)	06:05	06:28 (12)	06:42	07:20		07:02		16:09 (24)	07:35
24	05:33	19:12 (23)	06:06	06:29 (12)	06:43	07:21		07:03		16:12 (24)	07:36
25	05:34	19:12 (23)	06:07	06:30 (12)	06:44	07:22		07:04		16:15 (24)	07:37
26	05:35	19:12 (23)	06:08	06:31 (12)	06:45	07:23		07:05		16:18 (24)	07:38
27	05:36	19:12 (23)	06:09	06:32 (12)	06:46	07:24		07:06		16:21 (24)	07:39
28	05:37	19:12 (23)	06:10	06:33 (12)	06:47	07:25		07:07		16:24 (24)	07:40
29	05:38	19:12 (23)	06:11	06:34 (12)	06:48	07:26		07:08		16:27 (24)	07:41
30	05:39	19:12 (23)	06:12	06:35 (12)	06:49	07:27		07:09		16:30 (24)	07:42
31	05:40	19:12 (23)	06:13	06:36 (12)	06:50	07:28		07:10		16:33 (24)	07:43
Potential sun hours	472	436	376	341	288	275					
Total, worst case	1950	419	789	547							
Sun reduction	0.64	0.60	0.47	0.31							
Oper. time red.	1.00	1.00	1.00	1.00							
Wind dir. red.	0.66	0.64	0.79	0.79							
Total reduction	0.43	0.39	0.38	0.25							
Total, real	833	164	298	136							

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 237 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (826)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	07:35 16:26	07:17 17:04	16:11 (24) 16:38 (24)	06:36 17:43	06:39 19:24	05:48 20:00
2	07:35 16:27	07:16 17:06	16:11 (24) 16:40 (24)	06:34 17:45	06:37 19:25	05:46 20:01
3	07:35 16:28	07:15 17:07	16:10 (24) 16:42 (24)	06:32 17:46	06:35 19:26	05:45 20:02
4	07:35 16:29	07:14 17:08	16:09 (24) 16:42 (24)	06:31 17:48	06:33 19:27	05:43 20:04
5	07:35 16:30	07:12 17:10	16:09 (24) 16:44 (24)	06:29 17:49	06:32 19:29	05:42 20:05
6	07:35 16:31	07:11 17:11	16:09 (24) 16:45 (24)	06:27 17:50	06:30 19:30	05:40 20:06
7	07:34 16:32	07:10 17:13	16:08 (24) 16:45 (24)	06:25 17:52	06:28 19:31	05:39 20:07
8	07:34 16:33	07:09 17:14	16:08 (24) 16:46 (24)	07:24 18:53	06:26 19:32	05:38 20:09
9	07:34 16:34	07:07 17:16	16:08 (24) 16:47 (24)	07:22 18:54	06:24 19:34	05:36 20:10
10	07:34 16:35	07:06 17:17	16:07 (24) 16:46 (24)	07:20 18:55	06:23 19:35	05:35 20:11
11	07:33 16:36	07:04 17:18	16:08 (24) 16:47 (24)	07:18 18:57	06:21 19:36	05:34 20:12
12	07:33 16:37	07:03 17:20	16:08 (24) 16:46 (24)	07:16 18:58	06:19 19:37	05:33 20:13
13	07:33 16:39	07:02 17:21	16:08 (24) 16:47 (24)	07:14 18:59	06:17 19:39	05:31 20:15
14	07:32 16:40	07:00 17:23	16:08 (24) 16:46 (24)	07:13 19:01	06:15 19:40	05:30 20:16
15	07:32 16:41	06:59 17:24	16:09 (24) 16:46 (24)	07:11 19:02	06:14 19:41	05:29 20:17
16	07:31 16:42	06:57 17:26	16:09 (24) 16:45 (24)	07:09 19:03	06:12 19:42	05:28 20:18
17	07:30 16:44	06:56 17:27	16:10 (24) 16:45 (24)	07:07 19:05	06:10 19:44	05:27 20:19
18	07:30 16:45	06:54 17:28	16:11 (24) 16:44 (24)	07:05 19:06	06:09 19:45	05:26 20:20
19	07:29 16:46	06:53 17:30	16:12 (24) 16:43 (24)	07:03 19:07	06:07 19:46	05:25 20:21
20	07:28 16:48	06:51 17:31	16:13 (24) 16:42 (24)	07:01 19:08	06:05 19:47	05:24 20:22
21	07:28 16:49	06:49 17:33	16:14 (24) 16:40 (24)	07:00 19:10	06:03 19:49	05:23 20:24
22	07:27 16:50	06:48 17:34	16:17 (24) 16:39 (24)	06:58 19:11	06:02 19:50	05:22 20:25
23	07:26 16:52	06:46 17:35	16:19 (24) 16:36 (24)	06:56 19:12	06:00 19:51	05:21 20:26
24	07:25 16:53	06:44 17:37	16:22 (24) 16:32 (24)	06:54 19:14	05:59 19:52	05:20 20:27
25	07:24 16:54	06:43 17:38		06:52 19:15	05:57 19:54	05:19 20:28
26	07:23 16:56	06:41 17:39		06:50 19:16	05:55 19:55	05:18 20:29
27	07:23 16:57	16:19 (24) 16:31 (24)	06:39 17:41	06:48 19:17	05:54 19:56	05:18 20:30
28	07:22 16:58	16:17 (24) 16:32 (24)	06:38 17:42	06:46 19:19	05:52 19:57	05:17 20:31
29	07:20 17:00	16:15 (24) 16:34 (24)		06:45 19:20	05:51 19:59	05:16 20:32
30	07:19 17:01	16:14 (24) 16:36 (24)		06:43 19:21	05:49 20:00	05:15 20:33
31	07:18 17:03	16:12 (24) 16:36 (24)		06:41 19:22		05:15 20:34
Potential sun hours	286	291	369	404	459	466
Total, worst case	92	775		566	1085	352
Sun reduction	0.41	0.48		0.49	0.56	0.59
Oper. time red.	1.00	1.00		1.00	1.00	1.00
Wind dir. red.	0.79	0.79		0.65	0.74	0.79
Total reduction	0.33	0.38		0.32	0.41	0.47
Total, real	30	296		180	450	164

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 237 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (826)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	06:01 (12)	05:42	06:05 (12)	06:18	06:54		06:34		15:37 (24)	07:14
2	05:15	06:00 (12)	05:43	06:06 (12)	06:19	06:55		06:35		15:37 (24)	07:15
3	05:15	06:00 (12)	05:44	06:07 (12)	06:20	06:56		06:37		15:38 (24)	07:16
4	05:16	06:17 (12)	05:45	06:09 (12)	06:22	06:58		06:38		15:38 (24)	07:17
5	05:16	06:18 (12)	05:46	06:10 (12)	06:23	06:59		06:40		15:39 (24)	07:18
6	05:17	06:19 (12)	05:47	06:11 (12)	06:24	07:00		06:41		15:39 (24)	07:19
7	05:18	06:19 (12)	05:48	06:12 (12)	06:25	07:01		06:42		15:40 (24)	07:20
8	05:18	06:19 (12)	05:50	06:13 (12)	06:26	07:03		06:44		15:40 (24)	07:21
9	05:19	06:20 (12)	05:51	06:14 (12)	06:28	07:04		06:45		15:42 (24)	07:22
10	05:20	06:21 (12)	05:52	06:15 (12)	06:29	07:05		06:46		15:42 (24)	07:23
11	05:21	06:22 (12)	05:53	06:16 (12)	06:30	07:06		06:48		15:44 (24)	07:24
12	05:22	06:23 (12)	05:54	06:17 (12)	06:31	07:08		06:49		15:45 (24)	07:25
13	05:22	06:23 (12)	05:56	06:18 (12)	06:32	07:09		06:50		15:47 (24)	07:26
14	05:23	06:24 (12)	05:57	06:19 (12)	06:33	07:10		06:52		15:49 (24)	07:26
15	05:24	06:25 (12)	05:58	06:20 (12)	06:34	07:11		06:53		15:52 (24)	07:27
16	05:25	06:26 (12)	05:59	06:21 (12)	06:35	07:13		06:55		16:04 (24)	07:28
17	05:26	06:27 (12)	06:00	06:22 (12)	06:36	07:14		06:56		16:06 (24)	07:29
18	05:27	06:28 (12)	06:01	06:23 (12)	06:38	07:15	16:52 (24)	06:57		16:08 (24)	07:30
19	05:28	06:29 (12)	06:03	06:24 (12)	06:39	07:17	17:05 (24)	06:59		16:10 (24)	07:31
20	05:29	06:30 (12)	06:04	06:25 (12)	06:41	07:18	17:08 (24)	07:00		16:12 (24)	07:32
21	05:30	06:31 (12)	06:05	06:26 (12)	06:42	07:19	17:10 (24)	07:01		16:14 (24)	07:33
22	05:31	06:32 (12)	06:06	06:27 (12)	06:44	07:21	17:12 (24)	07:02		16:16 (24)	07:34
23	05:32	06:33 (12)	06:07	06:28 (12)	06:46	07:22	17:14 (24)	07:03		16:18 (24)	07:35
24	05:33	06:34 (12)	06:09	06:29 (12)	06:48	07:23	17:16 (24)	07:04		16:20 (24)	07:36
25	05:34	06:35 (12)	06:10	06:30 (12)	06:50	07:24	17:18 (24)	07:05		16:22 (24)	07:37
26	05:35	06:36 (12)	06:11	06:31 (12)	06:51	07:25	17:20 (24)	07:06		16:24 (24)	07:38
27	05:36	06:37 (12)	06:12	06:32 (12)	06:52	07:26	17:22 (24)	07:07		16:26 (24)	07:39
28	05:37	06:38 (12)	06:13	06:33 (12)	06:53	07:27	17:24 (24)	07:08		16:28 (24)	07:40
29	05:38	06:39 (12)	06:14	06:34 (12)	06:54	07:28	17:26 (24)	07:09		16:30 (24)	07:41
30	05:39	06:40 (12)	06:15	06:35 (12)	06:55	07:29	17:28 (24)	07:10		16:32 (24)	07:42
31	05:40	06:41 (12)	06:16	06:36 (12)	06:56	07:30	17:30 (24)	07:11		16:34 (24)	07:43
Potential sun hours	472	436		376	341		288			275	
Total, worst case	831	1067		440	434		125				
Sun reduction	0.64	0.60		0.47	0.31		0.33				
Oper. time red.	1.00	1.00		1.00	1.00		1.00				
Wind dir. red.	0.78	0.66		0.79	0.79		0.75				
Total reduction	0.50	0.40		0.37	0.25		0.25				
Total, real	418	426		165	107		31				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 238 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (827)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35		07:17	16:03 (24)	06:36	06:39		05:48		06:09 (12)	05:14
	16:26		17:04	16:38 (24)	17:43	19:24		20:00	43	19:20 (23)	20:34
2	07:35		07:16	16:03 (24)	06:34	06:37		05:46		06:07 (12)	05:14
	16:27		17:06	16:39 (24)	17:45	19:25		20:01	44	19:18 (23)	20:35
3	07:35		07:15	16:03 (24)	06:32	06:35		05:45		06:06 (12)	05:13
	16:28		17:07	16:40 (24)	17:46	19:26		20:02	45	19:18 (23)	20:36
4	07:35		07:14	16:02 (24)	06:31	06:33		05:43		06:04 (12)	05:13
	16:29		17:08	16:40 (24)	17:48	19:27		20:04	46	19:16 (23)	20:37
5	07:35		07:12	16:02 (24)	06:29	06:32		05:42		06:03 (12)	05:12
	16:30		17:10	16:41 (24)	17:49	19:29		20:05	47	19:16 (23)	20:38
6	07:35		07:11	16:02 (24)	06:27	06:30		05:40		06:02 (12)	05:12
	16:31		17:11	16:41 (24)	17:50	19:30		20:06	47	19:15 (23)	20:39
7	07:34		07:10	16:02 (24)	06:25	06:28		05:39		06:01 (12)	05:11
	16:32		17:13	16:41 (24)	17:52	19:31		20:07	46	19:14 (23)	20:39
8	07:34		07:09	16:02 (24)	07:24	06:26		05:38		05:59 (12)	05:11
	16:33		17:14	16:41 (24)	18:53	19:32		20:09	43	19:11 (23)	20:40
9	07:34		07:07	16:03 (24)	07:22	06:24		05:36		05:58 (12)	05:11
	16:34		17:16	16:42 (24)	18:54	19:34		20:10	42	19:10 (23)	20:41
10	07:34		07:06	16:03 (24)	07:20	06:23		05:35		05:57 (12)	05:11
	16:35		17:17	16:41 (24)	18:55	19:35		20:11	37	19:07 (23)	20:41
11	07:33		07:04	16:03 (24)	07:18	06:21		19:00 (23)	05:34	05:56 (12)	05:10
	16:36		17:18	16:41 (24)	18:57	19:36	11	19:11 (23)	20:12	06:22 (12)	20:42
12	07:33		07:03	16:03 (24)	07:16	06:19		18:56 (23)	05:33	05:54 (12)	05:10
	16:37		17:20	16:40 (24)	18:58	19:37	18	19:14 (23)	20:13	06:22 (12)	20:43
13	07:33		07:02	16:04 (24)	07:14	06:17		18:53 (23)	05:31	05:53 (12)	05:10
	16:39		17:21	16:40 (24)	18:59	19:39	22	19:15 (23)	20:15	06:22 (12)	20:43
14	07:32		07:00	16:04 (24)	07:13	06:15		18:51 (23)	05:30	05:52 (12)	05:10
	16:40		17:23	16:39 (24)	19:01	19:40	26	19:17 (23)	20:16	06:22 (12)	20:44
15	07:32		06:59	16:06 (24)	07:11	06:14		18:49 (23)	05:29	05:51 (12)	05:10
	16:41		17:24	16:39 (24)	19:02	19:41	29	19:18 (23)	20:17	06:22 (12)	20:44
16	07:31		06:57	16:06 (24)	07:09	06:12		18:48 (23)	05:28	05:50 (12)	05:10
	16:42		17:26	16:38 (24)	19:03	19:42	31	19:19 (23)	20:18	06:22 (12)	20:45
17	07:30		06:56	16:08 (24)	07:07	06:10		18:47 (23)	05:27	05:49 (12)	05:10
	16:44		17:27	16:37 (24)	19:05	19:44	33	19:20 (23)	20:19	06:22 (12)	20:45
18	07:30		06:54	16:09 (24)	07:05	06:09		18:46 (23)	05:26	05:48 (12)	05:10
	16:45		17:28	16:35 (24)	19:06	19:45	35	19:21 (23)	20:20	06:21 (12)	20:45
19	07:29		06:53	16:11 (24)	07:03	06:07		18:45 (23)	05:25	05:49 (12)	05:10
	16:46		17:30	16:34 (24)	19:07	19:46	37	19:22 (23)	20:21	06:21 (12)	20:46
20	07:28		06:51	16:13 (24)	07:01	06:05		18:44 (23)	05:24	05:49 (12)	05:10
	16:48		17:31	16:31 (24)	19:08	19:47	39	19:23 (23)	20:22	06:21 (12)	20:46
21	07:28		06:49	16:16 (24)	07:00	06:03		18:43 (23)	05:23	05:49 (12)	05:10
	16:49		17:33	16:28 (24)	19:10	19:49	40	19:23 (23)	20:24	06:20 (12)	20:46
22	07:27		06:48		06:58	06:02		18:43 (23)	05:22	05:50 (12)	05:11
	16:50	6	16:22 (24)	17:34		19:11	39	19:22 (23)	20:25	06:20 (12)	20:47
23	07:26		06:46		06:56	06:00		18:43 (23)	05:21	05:51 (12)	05:11
	16:52	12	16:25 (24)	17:35		19:12	40	19:23 (23)	20:26	06:20 (12)	20:47
24	07:25		06:44		06:54	05:59		18:42 (23)	05:20	05:51 (12)	05:11
	16:53	16	16:26 (24)	17:37		19:14	40	19:22 (23)	20:27	06:19 (12)	20:47
25	07:24		06:43		06:52	05:57		18:43 (23)	05:19	05:52 (12)	05:11
	16:54	19	16:28 (24)	17:38		19:15	40	19:23 (23)	20:28	06:19 (12)	20:47
26	07:23		06:41		06:50	05:55		18:42 (23)	05:18	05:52 (12)	05:12
	16:56	21	16:29 (24)	17:39		19:16	40	19:22 (23)	20:29	06:18 (12)	20:47
27	07:23		06:39		06:48	05:54		18:43 (23)	05:18	05:54 (12)	05:12
	16:57	24	16:31 (24)	17:41		19:17	39	19:22 (23)	20:30	06:18 (12)	20:47
28	07:22		06:38		06:46	05:52		18:42 (23)	05:17	05:54 (12)	05:13
	16:58	26	16:32 (24)	17:42		19:19	39	19:21 (23)	20:31	06:17 (12)	20:47
29	07:20		06:35		06:45	05:51		18:43 (23)	05:16	05:55 (12)	05:13
	17:00	29	16:34 (24)			19:20	38	19:21 (23)	20:32	06:16 (12)	20:47
30	07:19		06:34		06:43	05:49		06:10 (12)	05:15	05:56 (12)	05:14
	17:01	31	16:36 (24)			19:21	41	19:20 (23)	20:33	06:16 (12)	20:47
31	07:18		06:33		06:41				05:15	05:57 (12)	
	17:03	33	16:36 (24)			19:22			20:34	06:15 (12)	
Potential sun hours	286		291		369	404		459		466	
Total, worst case		217		698		677		1023		43	
Sun reduction		0.41		0.48		0.49		0.56		0.59	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.79		0.79		0.66		0.75		0.78	
Total reduction		0.33		0.38		0.32		0.42		0.47	
Total, real		71		267		219		432		20	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)		Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 130

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 238 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (827)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14		05:42		06:05 (12)	06:18	18:59 (23)	06:54		06:34	15:32 (24)	07:14
	20:47		20:25	27	06:32 (12)	19:35	11 19:10 (23)	18:39		16:46	39 16:11 (24)	16:18
2	05:15		05:43		06:06 (12)	06:19		06:55		06:35	15:32 (24)	07:15
	20:47		20:24	34	19:15 (23)	19:33		18:37		16:45	38 16:10 (24)	16:17
3	05:15		05:44		06:07 (12)	06:20		06:56		06:37	15:32 (24)	07:16
	20:47		20:23	40	19:18 (23)	19:31		18:35		16:43	39 16:11 (24)	16:17
4	05:16		05:45		06:09 (12)	06:22		06:58		06:38	15:32 (24)	07:17
	20:46		20:21	42	19:21 (23)	19:30		18:33		16:42	38 16:10 (24)	16:16
5	05:16		05:46		06:10 (12)	06:23		06:59		06:40	15:32 (24)	07:18
	20:46		20:20	45	19:23 (23)	19:28		18:31		16:41	39 16:11 (24)	16:16
6	05:17		05:47		06:11 (12)	06:24		07:00		06:41	15:32 (24)	07:19
	20:46		20:19	46	19:24 (23)	19:26		18:30		16:39	38 16:10 (24)	16:16
7	05:18		05:48		06:12 (12)	06:25		07:01		06:42	15:33 (24)	07:20
	20:46		20:17	46	19:25 (23)	19:24		18:28		16:38	38 16:11 (24)	16:16
8	05:18		05:50		06:13 (12)	06:26		07:03		06:44	15:33 (24)	07:21
	20:45		20:16	47	19:26 (23)	19:22		18:26		16:37	37 16:10 (24)	16:16
9	05:19		05:51		06:14 (12)	06:28		07:04		06:45	15:34 (24)	07:22
	20:45	8	06:18 (12)	20:15	46	19:26 (23)	19:20	18:24		16:36	36 16:10 (24)	16:16
10	05:20		06:08 (12)	05:52		06:15 (12)	06:29	07:05		06:46	15:34 (24)	07:23
	20:44	11	06:19 (12)	20:13	46	19:27 (23)	19:18	18:22		16:35	35 16:09 (24)	16:16
11	05:21		06:07 (12)	05:53		06:16 (12)	06:30	07:06		06:48	15:35 (24)	07:24
	20:44	14	06:21 (12)	20:12	44	19:27 (23)	19:17	18:20		16:33	33 16:08 (24)	16:16
12	05:22		06:06 (12)	05:54		06:17 (12)	06:31	07:08		06:49	15:36 (24)	07:25
	20:43	16	06:22 (12)	20:10	43	19:28 (23)	19:15	18:19		16:32	30 16:06 (24)	16:16
13	05:22		06:05 (12)	05:56		06:19 (12)	06:32	07:09		06:50	15:37 (24)	07:26
	20:43	19	06:24 (12)	20:09	41	19:29 (23)	19:13	18:17		16:31	29 16:06 (24)	16:16
14	05:23		06:05 (12)	05:57		18:50 (23)	06:33	07:10		06:52	15:38 (24)	07:26
	20:42	20	06:25 (12)	20:07	39	19:29 (23)	19:11	18:15		16:30	26 16:04 (24)	16:16
15	05:24		06:04 (12)	05:58		18:50 (23)	06:35	07:11		06:53	15:40 (24)	07:27
	20:41	22	06:26 (12)	20:06	39	19:29 (23)	19:09	18:13		16:29	24 16:04 (24)	16:16
16	05:25		06:03 (12)	05:59		18:49 (23)	06:36	07:13		06:55	15:41 (24)	07:28
	20:41	23	06:26 (12)	20:04	40	19:29 (23)	19:07	18:12		16:28	21 16:02 (24)	16:16
17	05:26		06:02 (12)	06:00		18:49 (23)	06:37	07:14		06:56	15:42 (24)	07:29
	20:40	25	06:27 (12)	20:03	40	19:29 (23)	19:05	18:10		16:27	19 16:01 (24)	16:17
18	05:27		06:02 (12)	06:01		18:48 (23)	06:38	07:15		06:57	15:44 (24)	07:29
	20:39	26	06:28 (12)	20:01	40	19:28 (23)	19:03	18:08		16:26	16 16:00 (24)	16:17
19	05:28		06:01 (12)	06:03		18:48 (23)	06:39	07:17		06:59	15:47 (24)	07:30
	20:38	28	06:29 (12)	19:58	40	19:28 (23)	19:01	18:07		16:25	12 15:59 (24)	16:17
20	05:29		06:01 (12)	06:04		18:48 (23)	06:41	07:18		07:00	15:51 (24)	07:31
	20:38	28	06:29 (12)	19:56	40	19:28 (23)	19:00	18:05		16:24	6 15:57 (24)	16:18
21	05:30		06:00 (12)	06:05		18:48 (23)	06:42	07:19		07:01		07:31
	20:37	30	06:30 (12)	19:54	40	19:28 (23)	18:58	18:03	14	16:59 (24)	16:24	16:18
22	05:31		06:00 (12)	06:06		18:48 (23)	06:43	07:21		16:43 (24)	07:02	07:32
	20:36	31	06:31 (12)	19:53	39	19:27 (23)	18:56	18:02	20	17:03 (24)	16:23	16:19
23	05:32		06:00 (12)	06:07		18:48 (23)	06:44	07:22		16:40 (24)	07:04	07:32
	20:35	31	06:31 (12)	19:51	38	19:26 (23)	18:54	18:00	24	17:04 (24)	16:22	16:19
24	05:33		05:59 (12)	06:09		18:48 (23)	06:45	07:23		16:38 (24)	07:05	07:33
	20:34	32	06:31 (12)	19:49	38	19:26 (23)	18:52	17:58	27	17:05 (24)	16:21	16:20
25	05:34		05:59 (12)	06:10		18:49 (23)	06:47	07:25		16:37 (24)	07:06	07:33
	20:33	33	06:32 (12)	19:48	35	19:24 (23)	18:50	17:57	30	17:07 (24)	16:21	16:20
26	05:35		05:59 (12)	06:11		18:49 (23)	06:48	07:26		16:36 (24)	07:08	07:33
	20:32	33	06:32 (12)	19:46	33	19:22 (23)	18:48	17:55	32	17:08 (24)	16:20	16:21
27	05:36		06:00 (12)	06:12		18:50 (23)	06:49	07:27		16:35 (24)	07:09	07:34
	20:31	32	06:32 (12)	19:44	30	19:20 (23)	18:46	17:54	34	17:09 (24)	16:19	16:22
28	05:37		06:01 (12)	06:13		18:51 (23)	06:50	07:29		16:34 (24)	07:10	07:34
	20:30	31	06:32 (12)	19:42	28	19:19 (23)	18:44	17:52	35	17:09 (24)	16:19	16:22
29	05:38		06:02 (12)	06:14		18:52 (23)	06:51	07:30		16:34 (24)	07:11	07:34
	20:29	31	06:33 (12)	19:41	26	19:18 (23)	18:43	17:51	36	17:10 (24)	16:18	16:23
30	05:39		06:03 (12)	06:16		18:54 (23)	06:53	07:31		16:33 (24)	07:12	07:34
	20:28	30	06:33 (12)	19:39	22	19:16 (23)	18:41	17:49	37	17:10 (24)	16:18	16:24
31	05:40		06:04 (12)	06:17		18:56 (23)		07:33		16:33 (24)		07:35
	20:26	28	06:32 (12)	19:37	18	19:14 (23)		17:48	38	17:11 (24)		16:25
Potential sun hours	472		436		376		341		288		275	
Total, worst case	582		1172				327		593			
Sun reduction	0.64		0.60		0.54		0.47		0.31			
Oper. time red.	1.00		1.00		1.00		1.00		1.00			
Wind dir. red.	0.78		0.68		0.65		0.79		0.79			
Total reduction	0.50		0.41		0.36		0.37		0.25			
Total, real	294		480		4		123		147			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 131

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 239 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (828)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	14:43 (28)	07:17	16:28 (24)	06:36	06:39		05:48		18:51 (23)	05:14
	16:26	25	15:08 (28)	17:04	16:38 (24)	17:43	19:24	20:00	38	19:29 (23)	20:34
2	07:35		14:44 (28)	07:16	16:25 (24)	06:34	06:37	05:46		18:50 (23)	05:14
	16:27	24	15:08 (28)	17:06	16:40 (24)	17:45	19:25	20:01	38	19:28 (23)	20:35
3	07:35		14:45 (28)	07:15	16:23 (24)	06:32	06:35	05:45		18:51 (23)	05:13
	16:28	23	15:08 (28)	17:07	16:42 (24)	17:46	19:26	20:02	37	19:28 (23)	20:36
4	07:35		14:46 (28)	07:14	16:21 (24)	06:31	06:33	05:43		18:51 (23)	05:13
	16:29	21	15:07 (28)	17:08	16:42 (24)	17:48	19:27	20:04	35	19:26 (23)	20:37
5	07:35		14:48 (28)	07:12	16:20 (24)	06:29	06:32	05:42		18:52 (23)	05:12
	16:30	19	15:07 (28)	17:10	16:44 (24)	17:49	19:29	20:05	34	19:26 (23)	20:38
6	07:35		14:50 (28)	07:11	16:20 (24)	06:27	06:30	05:40		18:52 (23)	05:12
	16:31	17	15:07 (28)	17:11	16:46 (24)	17:50	19:30	20:06	34	19:26 (23)	20:39
7	07:34		14:52 (28)	07:10	16:18 (24)	06:25	06:28	05:39		06:01 (12)	05:11
	16:32	14	15:06 (28)	17:13	16:47 (24)	17:52	19:31	20:07	33	19:25 (23)	20:39
8	07:34		14:53 (28)	07:09	16:18 (24)	07:24	06:26	05:38		05:59 (12)	05:11
	16:33	11	15:04 (28)	17:14	16:49 (24)	18:53	19:32	20:09	36	19:24 (23)	20:40
9	07:34		14:57 (28)	07:07	16:18 (24)	07:22	06:24	05:36		05:58 (12)	05:11
	16:34	5	15:02 (28)	17:16	16:51 (24)	18:54	19:34	20:10	36	19:23 (23)	20:41
10	07:34		07:06		16:16 (24)	07:20	06:23	05:35		05:57 (12)	05:11
	16:35		17:17	36	16:52 (24)	18:55	19:35	20:11	36	19:22 (23)	20:41
11	07:33		07:04		16:17 (24)	07:18	06:21	05:34		05:56 (12)	05:10
	16:36		17:18	36	16:53 (24)	18:57	19:36	20:12	36	19:21 (23)	20:42
12	07:33		07:03		16:16 (24)	07:16	06:19	05:33		05:54 (12)	05:10
	16:37		17:20	37	16:53 (24)	18:58	19:37	20:13	35	19:19 (23)	20:42
13	07:33		07:02		16:16 (24)	07:14	06:17	05:31		05:53 (12)	05:10
	16:39		17:21	38	16:54 (24)	18:59	19:39	20:15	33	19:17 (23)	20:43
14	07:32		07:00		16:15 (24)	07:13	06:15	05:30		05:52 (12)	05:10
	16:40		17:23	38	16:53 (24)	19:01	19:40	20:16	31	19:15 (23)	20:44
15	07:32		06:59		16:16 (24)	07:11	06:14	19:09 (23)	05:29	05:51 (12)	05:10
	16:41		17:24	38	16:54 (24)	19:02	19:41	19:16 (23)	20:17	19:12 (23)	20:44
16	07:31		06:57		16:16 (24)	07:09	06:12	19:04 (23)	05:28	05:50 (12)	05:10
	16:42		17:26	37	16:53 (24)	19:03	19:42	19:19 (23)	20:18	06:11 (12)	20:45
17	07:30		06:56		16:16 (24)	07:07	06:10	19:02 (23)	05:27	05:49 (12)	05:10
	16:44		17:27	38	16:54 (24)	19:05	19:44	19:20 (23)	20:19	06:12 (12)	20:45
18	07:30		06:54		16:16 (24)	07:05	06:09	18:59 (23)	05:26	05:48 (12)	05:10
	16:45		17:28	37	16:53 (24)	19:06	19:45	19:21 (23)	20:20	06:12 (12)	20:45
19	07:29		06:53		16:17 (24)	07:03	06:07	18:57 (23)	05:25	05:47 (12)	05:10
	16:46		17:30	36	16:53 (24)	19:07	19:46	19:22 (23)	20:21	06:12 (12)	20:46
20	07:28		06:51		16:17 (24)	07:01	06:05	18:57 (23)	05:24	05:46 (12)	05:10
	16:48		17:31	35	16:52 (24)	19:08	19:47	19:24 (23)	20:22	06:12 (12)	20:46
21	07:28		06:49		16:18 (24)	07:00	06:03	18:55 (23)	05:23	05:45 (12)	05:10
	16:49		17:33	33	16:51 (24)	19:10	19:49	19:25 (23)	20:24	06:13 (12)	20:46
22	07:27		06:48		16:19 (24)	06:58	06:02	18:54 (23)	05:22	05:44 (12)	05:11
	16:50		17:34	32	16:51 (24)	19:11	19:50	19:26 (23)	20:25	06:13 (12)	20:47
23	07:26		06:46		16:20 (24)	06:56	06:00	18:53 (23)	05:21	05:44 (12)	05:11
	16:52		17:35	29	16:49 (24)	19:12	19:51	19:27 (23)	20:26	06:14 (12)	20:47
24	07:25		06:44		16:21 (24)	06:54	05:59	18:52 (23)	05:20	05:43 (12)	05:11
	16:53		17:37	26	16:47 (24)	19:14	19:52	19:28 (23)	20:27	06:13 (12)	20:47
25	07:24		06:43		16:23 (24)	06:52	05:57	18:52 (23)	05:19	05:42 (12)	05:11
	16:54		17:38	23	16:46 (24)	19:15	19:54	19:29 (23)	20:28	06:13 (12)	20:47
26	07:23		06:41		16:25 (24)	06:50	05:55	18:51 (23)	05:18	05:41 (12)	05:12
	16:56		17:39	19	16:44 (24)	19:16	19:55	19:29 (23)	20:29	06:13 (12)	20:47
27	07:22		06:39		16:28 (24)	06:48	05:54	18:51 (23)	05:18	05:41 (12)	05:12
	16:57		17:41	12	16:40 (24)	19:17	19:56	19:29 (23)	20:30	06:14 (12)	20:47
28	07:22		06:38			06:46	05:52	18:51 (23)	05:17	05:40 (12)	05:13
	16:58		17:42			19:19	19:57	19:29 (23)	20:31	06:13 (12)	20:47
29	07:20					06:45	05:51	18:51 (23)	05:16	05:39 (12)	05:13
	17:00					19:20	19:59	19:29 (23)	20:32	06:13 (12)	20:47
30	07:19					06:43	05:49	18:50 (23)	05:15	05:39 (12)	05:14
	17:01					19:21	20:00	19:28 (23)	20:33	06:14 (12)	20:47
31	07:18					06:41			05:15	05:39 (12)	
	17:03					19:22			20:34	06:13 (12)	
Potential sun hours	286		291		369	404		459		466	
Total, worst case		159		788		473		986		876	
Sun reduction		0.41		0.48		0.49		0.56		0.59	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.76		0.79		0.64		0.73		0.79	
Total reduction		0.31		0.38		0.32		0.41		0.47	
Total, real		50		300		149		403		409	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 239 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (828)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:48 (12)	05:42	06:05 (12)	06:18	06:54		06:34		15:46 (24)	07:14
2	05:15	05:48 (12)	05:43	06:06 (12)	06:19	06:55		06:35	35	16:21 (24)	16:17
3	05:15	05:48 (12)	05:44	06:07 (12)	06:20	06:56		06:37	33	16:19 (24)	16:17
4	05:16	05:47 (12)	05:45	06:09 (12)	06:22	06:58		06:38	30	16:18 (24)	16:17
5	05:16	05:48 (12)	05:46	06:10 (12)	06:23	06:59		06:40	29	16:17 (24)	16:16
6	05:17	05:48 (12)	05:47	06:11 (12)	06:24	07:00		06:41	26	16:16 (24)	16:16
7	05:18	05:47 (12)	05:48	06:12 (12)	06:25	07:01		06:42	24	16:14 (24)	16:16
8	05:18	05:48 (12)	05:50	06:13 (12)	06:26	07:03		06:44	21	16:13 (24)	16:16
9	05:19	05:48 (12)	05:51	06:14 (12)	06:27	07:04		06:45	18	16:11 (24)	16:16
10	05:20	05:47 (12)	05:52	06:15 (12)	06:28	07:05		06:46	15	16:11 (24)	16:16
11	05:21	05:47 (12)	05:53	06:16 (12)	06:29	07:06		06:48	10	16:09 (24)	16:16
12	05:22	05:47 (12)	05:54	06:17 (12)	06:30	07:07		06:49			16:16
13	05:22	05:47 (12)	05:56	06:18 (12)	06:31	07:08		06:50			16:16
14	05:23	05:48 (12)	05:57	06:19 (12)	06:32	07:09		06:51			16:16
15	05:24	05:49 (12)	05:58	06:20 (12)	06:33	07:10	4	17:05 (24)		06:52	16:16
16	05:25	05:49 (12)	05:59	06:21 (12)	06:34	07:11	15	17:09 (24)		06:53	16:16
17	05:26	05:50 (12)	06:00	06:22 (12)	06:35	07:12	21	16:59 (24)		06:54	16:16
18	05:27	05:51 (12)	06:01	06:23 (12)	06:36	07:13	24	17:14 (24)		06:55	16:16
19	05:28	05:52 (12)	06:03	06:24 (12)	06:37	07:14	27	17:16 (24)		06:56	16:16
20	05:29	05:53 (12)	06:04	06:25 (12)	06:38	07:15	30	16:54 (24)		06:57	16:16
21	05:30	05:54 (12)	06:05	06:26 (12)	06:39	07:16	32	17:18 (24)		06:58	16:16
22	05:31	05:55 (12)	06:06	06:27 (12)	06:40	07:17	34	16:52 (24)		06:59	16:16
23	05:32	05:56 (12)	06:07	06:28 (12)	06:41	07:18	35	17:19 (24)		07:00	16:16
24	05:33	05:57 (12)	06:09	06:29 (12)	06:42	07:19	36	17:21 (24)		07:01	16:16
25	05:34	05:58 (12)	06:10	06:30 (12)	06:43	07:20	37	17:22 (24)		07:02	16:16
26	05:35	05:59 (12)	06:11	06:31 (12)	06:44	07:21	38	16:46 (24)		07:03	16:16
27	05:36	06:00 (12)	06:12	06:32 (12)	06:45	07:22	39	16:45 (24)		07:04	16:16
28	05:37	06:01 (12)	06:13	06:33 (12)	06:46	07:23	40	16:44 (24)		07:05	16:16
29	05:38	06:02 (12)	06:14	06:34 (12)	06:47	07:24	41	16:43 (24)		07:06	16:16
30	05:39	06:03 (12)	06:16	06:35 (12)	06:48	07:25	42	16:42 (24)		07:07	16:16
31	05:40	06:04 (12)	06:17	06:36 (12)	06:49	07:26	43	16:41 (24)		07:08	16:16
Potential sun hours	472		436		376	341		288		275	
Total, worst case		940		895		555		241		723	
Sun reduction		0.64		0.60		0.47		0.31		0.33	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.78		0.65		0.79		0.79		0.76	
Total reduction		0.50		0.39		0.37		0.25		0.25	
Total, real		472		350		207		59		182	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 240 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (829)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35		14:43 (28)	07:17		06:36	16:34 (24)	06:39		05:48	18:53 (23)	05:14
	16:26	30	15:13 (28)	17:04		17:43	6	16:40 (24)	19:24		20:00	38
2	07:35		14:44 (28)	07:16		06:34				20:06	19:31 (23)	20:34
	16:27	29	15:13 (28)	17:06		17:45				05:46	18:53 (23)	05:14
3	07:35		14:45 (28)	07:15		06:32				20:01	19:30 (23)	20:35
	16:28	28	15:13 (28)	17:07	11	16:31 (24)	06:32			05:45	18:53 (23)	05:13
4	07:35		14:46 (28)	07:14		16:27 (24)	06:31			20:02	19:30 (23)	20:36
	16:29	27	15:13 (28)	17:08	15	16:42 (24)	17:48			05:43	18:53 (23)	05:13
5	07:35		14:47 (28)	07:12		16:26 (24)	06:29			20:04	19:29 (23)	20:37
	16:30	26	15:13 (28)	17:10	18	16:44 (24)	17:49			05:42	18:53 (23)	05:12
6	07:35		14:49 (28)	07:11		16:25 (24)	06:27			20:05	19:29 (23)	20:38
	16:31	24	15:13 (28)	17:11	21	16:46 (24)	17:50			05:40	18:54 (23)	05:12
7	07:34		14:50 (28)	07:10		16:23 (24)	06:25			20:06	19:29 (23)	20:39
	16:32	23	15:13 (28)	17:13	24	16:47 (24)	17:52			05:39	18:55 (23)	05:11
8	07:34		14:51 (28)	07:09		16:22 (24)	07:24			20:07	19:29 (23)	20:39
	16:33	21	15:12 (28)	17:14	27	16:49 (24)	18:53			05:38	18:55 (23)	05:11
9	07:34		14:53 (28)	07:07		16:22 (24)	07:22			20:09	19:27 (23)	20:40
	16:34	18	15:11 (28)	17:16	29	16:51 (24)	18:54			05:36	05:58 (12)	05:11
10	07:34		14:55 (28)	07:06		16:20 (24)	07:20			20:10	19:27 (23)	20:41
	16:35	16	15:11 (28)	17:17	32	16:52 (24)	18:55			05:35	05:57 (12)	05:11
11	07:33		14:57 (28)	07:04		16:20 (24)	07:18			20:11	19:26 (23)	20:41
	16:36	12	15:09 (28)	17:18	34	16:54 (24)	18:57			05:34	05:56 (12)	05:10
12	07:33		15:01 (28)	07:03		16:19 (24)	07:16			20:12	19:26 (23)	20:42
	16:37	5	15:06 (28)	17:20	36	16:55 (24)	18:58			05:33	05:54 (12)	05:10
13	07:33		07:02			16:19 (24)	07:14			20:13	19:24 (23)	20:42
	16:39		17:21	37	16:56 (24)	18:59				05:32	05:53 (12)	05:10
14	07:32		07:00			16:18 (24)	07:13			20:15	19:23 (23)	20:43
	16:40		17:23	38	16:56 (24)	19:01				05:31	05:52 (12)	05:10
15	07:32		06:59			16:19 (24)	07:11			20:16	19:21 (23)	20:44
	16:41		17:24	37	16:56 (24)	19:02				05:30	05:51 (12)	05:10
16	07:31		06:57			16:18 (24)	07:09			20:17	19:20 (23)	20:44
	16:42		17:26	38	16:56 (24)	19:03				05:29	05:50 (12)	05:10
17	07:30		06:56			16:19 (24)	07:07			20:18	19:18 (23)	20:45
	16:44		17:27	38	16:57 (24)	19:05				05:28	05:51 (12)	05:10
18	07:30		06:54			16:18 (24)	07:05		11	19:20 (23)	19:14 (23)	20:45
	16:45		17:28	38	16:56 (24)	19:06			25	05:27	05:49 (12)	05:10
19	07:29		06:53			16:19 (24)	07:03			05:26	05:48 (12)	05:10
	16:46		17:30	37	16:56 (24)	19:07		16	19:21 (23)	20:20	06:09 (12)	20:45
20	07:28		06:51			16:19 (24)	07:01			05:25	05:47 (12)	05:10
	16:48		17:31	37	16:56 (24)	19:08		20	19:22 (23)	20:21	06:09 (12)	20:46
21	07:28		06:49			16:19 (24)	07:00			05:24	05:46 (12)	05:10
	16:49		17:33	36	16:55 (24)	19:10		23	19:24 (23)	20:22	06:09 (12)	20:46
22	07:27		06:48			16:20 (24)	06:58			05:23	05:45 (12)	05:10
	16:50		17:34	35	16:55 (24)	19:11		26	19:25 (23)	20:24	06:10 (12)	20:46
23	07:26		06:46			16:21 (24)	06:56			05:22	05:44 (12)	05:11
	16:52		17:35	32	16:53 (24)	19:12		25	19:26 (23)	20:25	06:10 (12)	20:47
24	07:25		06:44			16:21 (24)	06:54			05:21	05:44 (12)	05:11
	16:53		17:37	31	16:52 (24)	19:14		26	19:27 (23)	20:26	06:11 (12)	20:47
25	07:24		06:43			16:23 (24)	06:52		30	19:28 (23)	20:27	27
	16:54		17:38	28	16:51 (24)	19:15			05:20	18:56 (23)	05:43 (12)	05:11
26	07:23		06:41			16:24 (24)	06:50		28	19:29 (23)	20:28	28
	16:56		17:39	25	16:49 (24)	19:16		35	19:30 (23)	20:29	06:11 (12)	20:47
27	07:22		06:39			16:26 (24)	06:48			05:19	18:55 (23)	05:19
	16:57		17:41	21	16:47 (24)	19:17		37	19:31 (23)	20:30	06:12 (12)	20:47
28	07:22		06:38			16:28 (24)	06:46		30	19:32 (23)	20:31	30
	16:58		17:42	16	16:44 (24)	19:19			05:18	18:54 (23)	05:18	31
29	07:20					06:45			37	19:33 (23)	20:32	37
	17:00					19:20				05:17	18:53 (23)	05:17
30	07:19					06:43			38	19:34 (23)	20:33	38
	17:01					19:21				05:16	18:54 (23)	05:16
31	07:18					06:41				05:15	18:55 (23)	05:15
	17:03					19:22				05:14	18:56 (23)	05:14
Potential sun hours	286		291		369		404		459		466	
Total, worst case		259		771		6		409		973		953
Sun reduction		0.41		0.48		0.51		0.49		0.56		0.59
Oper. time red.		1.00		1.00		1.00		1.00		1.00		1.00
Wind dir. red.		0.76		0.79		0.79		0.64		0.72		0.79
Total reduction		0.31		0.38		0.40		0.31		0.40		0.47
Total, real		81		294		2		129		391		446

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 240 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (829)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:44 (12)	05:42	06:05 (12)	06:18	06:54		06:34		15:50 (24)	07:14
2	05:15	05:44 (12)	05:43	06:06 (12)	06:19	06:55		06:35		15:50 (24)	07:15
3	05:15	05:44 (12)	05:44	06:07 (12)	06:20	06:56		06:37		15:52 (24)	07:16
4	05:16	05:44 (12)	05:45	06:08 (12)	06:21	06:57		06:38		15:53 (24)	07:17
5	05:16	05:44 (12)	05:46	06:09 (12)	06:22	06:58		06:40		15:55 (24)	07:18
6	05:17	05:44 (12)	05:47	06:10 (12)	06:23	06:59		06:41		15:56 (24)	07:19
7	05:18	05:44 (12)	05:48	06:11 (12)	06:24	07:00		06:42		15:58 (24)	07:20
8	05:18	05:44 (12)	05:50	06:12 (12)	06:25	07:01		06:43		16:00 (24)	07:21
9	05:19	05:44 (12)	05:51	06:13 (12)	06:26	07:02		06:44		16:01 (24)	07:22
10	05:20	05:44 (12)	05:52	06:14 (12)	06:27	07:03		06:45		16:02 (24)	07:23
11	05:21	05:44 (12)	05:53	06:15 (12)	06:28	07:04		06:46		16:03 (24)	07:24
12	05:22	05:44 (12)	05:54	06:16 (12)	06:29	07:05		06:47		16:04 (24)	07:25
13	05:22	05:44 (12)	05:55	06:17 (12)	06:30	07:06		06:48		16:05 (24)	07:26
14	05:23	05:44 (12)	05:56	06:18 (12)	06:31	07:07		06:49		16:06 (24)	07:27
15	05:24	05:44 (12)	05:57	06:19 (12)	06:32	07:08		06:50		16:07 (24)	07:28
16	05:25	05:44 (12)	05:58	06:20 (12)	06:33	07:09		06:51		16:08 (24)	07:29
17	05:26	05:44 (12)	05:59	06:21 (12)	06:34	07:10		06:52		16:09 (24)	07:30
18	05:27	05:44 (12)	06:00	06:22 (12)	06:35	07:11		06:53		16:10 (24)	07:31
19	05:28	05:44 (12)	06:01	06:23 (12)	06:36	07:12		06:54		16:11 (24)	07:32
20	05:29	05:44 (12)	06:02	06:24 (12)	06:37	07:13		06:55		16:12 (24)	07:33
21	05:30	05:44 (12)	06:03	06:25 (12)	06:38	07:14		06:56		16:13 (24)	07:34
22	05:31	05:44 (12)	06:04	06:26 (12)	06:39	07:15		06:57		16:14 (24)	07:35
23	05:32	05:44 (12)	06:05	06:27 (12)	06:40	07:16		06:58		16:15 (24)	07:36
24	05:33	05:44 (12)	06:06	06:28 (12)	06:41	07:17		06:59		16:16 (24)	07:37
25	05:34	05:44 (12)	06:07	06:29 (12)	06:42	07:18		07:00		16:17 (24)	07:38
26	05:35	05:44 (12)	06:08	06:30 (12)	06:43	07:19		07:01		16:18 (24)	07:39
27	05:36	05:44 (12)	06:09	06:31 (12)	06:44	07:20		07:02		16:19 (24)	07:40
28	05:37	05:44 (12)	06:10	06:32 (12)	06:45	07:21		07:03		16:20 (24)	07:41
29	05:38	05:44 (12)	06:11	06:33 (12)	06:46	07:22		07:04		16:21 (24)	07:42
30	05:39	05:44 (12)	06:12	06:34 (12)	06:47	07:23		07:05		16:22 (24)	07:43
31	05:40	05:44 (12)	06:13	06:35 (12)	06:48	07:24		07:06		16:23 (24)	07:44
Potential sun hours	472		436		376	341		288		275	
Total, worst case		948		831		607		179		896	
Sun reduction		0.64		0.60		0.47		0.31		0.33	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.78		0.64		0.79		0.79		0.76	
Total reduction		0.50		0.39		0.37		0.25		0.25	
Total, real		473		322		226		44		227	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 135

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 241 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (830)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June					
1	07:35	14:35 (28)	07:17		06:36	16:25 (24)	06:39		05:48	18:59 (23)	05:14	05:38 (12)				
	16:26	29	15:04 (28)	17:04		17:43	20	16:45 (24)	19:24	20:00	38	19:37 (23)	20:34	32	06:10 (12)	
2	07:35		14:36 (28)	07:16		06:34		16:28 (24)	06:37	05:46		18:58 (23)	05:14		05:37 (12)	
	16:27	28	15:04 (28)	17:06		17:45	13	16:41 (24)	19:25	20:01	39	19:37 (23)	20:35	32	06:09 (12)	
3	07:35		14:38 (28)	07:15		06:32		06:35		05:45		18:58 (23)	05:13		05:38 (12)	
	16:28	26	15:04 (28)	17:07	14	16:42 (24)	17:46	19:26		20:02	39	19:37 (23)	20:36	32	06:10 (12)	
4	07:35		14:39 (28)	07:14		16:25 (24)	06:31	06:33		05:43		18:57 (23)	05:13		05:38 (12)	
	16:29	25	15:04 (28)	17:08	17	16:42 (24)	17:48	19:27		20:04	40	19:37 (23)	20:37	31	06:09 (12)	
5	07:35		14:40 (28)	07:12		16:23 (24)	06:29	06:32		05:42		18:57 (23)	05:12		05:39 (12)	
	16:30	24	15:04 (28)	17:10	21	16:44 (24)	17:49	19:29		20:05	40	19:37 (23)	20:38	30	06:09 (12)	
6	07:35		14:42 (28)	07:11		16:22 (24)	06:27	06:30		05:40		18:57 (23)	05:12		05:39 (12)	
	16:31	22	15:04 (28)	17:11	24	16:46 (24)	17:50	19:30		20:06	40	19:37 (23)	20:39	31	06:10 (12)	
7	07:34		14:43 (28)	07:10		16:20 (24)	06:25	06:28		05:39		18:57 (23)	05:11		05:39 (12)	
	16:32	20	15:03 (28)	17:13	27	16:47 (24)	17:52	19:31		20:07	41	19:38 (23)	20:39	30	06:09 (12)	
8	07:34		14:44 (28)	07:09		16:20 (24)	07:24	06:26		05:38		18:57 (23)	05:11		05:40 (12)	
	16:33	18	15:02 (28)	17:14	29	16:49 (24)	18:53	19:32		20:09	40	19:37 (23)	20:40	29	06:09 (12)	
9	07:34		14:47 (28)	07:07		16:19 (24)	07:22	06:24		05:36		05:58 (12)	05:11		05:40 (12)	
	16:34	14	15:01 (28)	17:16	32	16:51 (24)	18:54	19:34		20:10	41	19:37 (23)	20:41	29	06:09 (12)	
10	07:34		14:50 (28)	07:06		16:18 (24)	07:20	06:23		05:35		05:57 (12)	05:11		05:41 (12)	
	16:35	10	15:00 (28)	17:17	34	16:52 (24)	18:55	19:35		20:11	44	19:37 (23)	20:41	29	06:10 (12)	
11	07:33		07:04			16:17 (24)	07:18	06:21		05:34		05:56 (12)	05:10		05:41 (12)	
	16:36		17:18	37	16:54 (24)	18:57		19:36		20:12	46	19:37 (23)	20:42	29	06:10 (12)	
12	07:33		07:03			16:16 (24)	07:16	06:19		05:33		05:54 (12)	05:10		05:41 (12)	
	16:37		17:20	38	16:54 (24)	18:58		19:37		20:13	48	19:36 (23)	20:42	28	06:09 (12)	
13	07:33		07:02			16:16 (24)	07:14	06:17		05:31		05:53 (12)	05:10		05:41 (12)	
	16:39		17:21	39	16:55 (24)	18:59		19:39		20:15	48	19:35 (23)	20:43	28	06:09 (12)	
14	07:32		07:00			16:16 (24)	07:13	06:15		05:30		05:52 (12)	05:10		05:42 (12)	
	16:40		17:23	39	16:55 (24)	19:01		19:40		20:16	50	19:35 (23)	20:44	27	06:09 (12)	
15	07:32		06:59			16:16 (24)	07:11	06:14		05:29		05:51 (12)	05:10		05:42 (12)	
	16:41		17:24	40	16:56 (24)	19:02		19:41		20:17	51	19:35 (23)	20:44	27	06:09 (12)	
16	07:31		06:57			16:15 (24)	07:09	06:12		05:28		05:50 (12)	05:10		05:43 (12)	
	16:42		17:26	41	16:56 (24)	19:03		19:42		20:18	52	19:34 (23)	20:45	26	06:09 (12)	
17	07:30		06:56			16:16 (24)	07:07	06:10		05:27		05:49 (12)	05:10		05:43 (12)	
	16:44		17:27	40	16:56 (24)	19:05		19:44		20:19	52	19:34 (23)	20:45	26	06:09 (12)	
18	07:30		06:54			16:15 (24)	07:05	06:09		05:26		05:48 (12)	05:10		05:43 (12)	
	16:45		17:28	41	16:56 (24)	19:06		19:45		20:20	52	19:33 (23)	20:45	26	06:09 (12)	
19	07:29		06:53			16:16 (24)	07:03	06:07		05:25		05:47 (12)	05:10		05:44 (12)	
	16:46		17:30	40	16:56 (24)	19:07		19:46		20:21	53	19:33 (23)	20:46	26	06:10 (12)	
20	07:28		06:51			16:16 (24)	07:01	06:05		05:24		05:46 (12)	05:10		05:44 (12)	
	16:48		17:31	39	16:55 (24)	19:08		19:47		20:22	52	19:32 (23)	20:46	26	06:10 (12)	
21	07:28		06:49			16:16 (24)	07:00	06:03		05:23		05:45 (12)	05:10		05:44 (12)	
	16:49		17:33	39	16:55 (24)	19:10		19:49		20:24	51	19:31 (23)	20:46	26	06:10 (12)	
22	07:27		06:48			16:17 (24)	06:58	06:02		05:22		05:44 (12)	05:11		05:44 (12)	
	16:50		17:34	38	16:55 (24)	19:11		19:50	14	19:26 (23)	20:25	50	19:30 (23)	20:47	26	06:10 (12)
23	07:26		06:46			16:17 (24)	06:56	06:00		19:09 (23)	05:21		05:44 (12)	05:11		05:44 (12)
	16:52		17:35	37	16:54 (24)	19:12		19:51	18	19:27 (23)	20:26	49	19:30 (23)	20:47	26	06:10 (12)
24	07:25		06:44			16:18 (24)	06:54	05:59		19:07 (23)	05:20		05:43 (12)	05:11		05:45 (12)
	16:53		17:37	34	16:52 (24)	19:14		19:52	21	19:28 (23)	20:27	48	19:29 (23)	20:47	26	06:11 (12)
25	07:24		06:43			16:19 (24)	06:52	05:57		19:05 (23)	05:19		05:42 (12)	05:11		05:45 (12)
	16:54		17:38	33	16:52 (24)	19:15		19:54	25	19:30 (23)	20:28	46	19:27 (23)	20:47	26	06:11 (12)
26	07:23		06:41			16:20 (24)	06:50	05:55		19:03 (23)	05:18		05:41 (12)	05:12		05:45 (12)
	16:56		17:39	31	16:51 (24)	19:16		19:55	28	19:31 (23)	20:29	45	19:26 (23)	20:47	26	06:11 (12)
27	07:23		06:39			16:21 (24)	06:48	05:54		19:03 (23)	05:18		05:41 (12)	05:12		05:45 (12)
	16:57		17:41	28	16:49 (24)	19:17		19:56	29	19:32 (23)	20:30	42	19:25 (23)	20:47	27	06:12 (12)
28	07:22		06:38			16:22 (24)	06:46	05:52		19:01 (23)	05:17		05:40 (12)	05:13		05:45 (12)
	16:58		17:42	25	16:47 (24)	19:19		19:57	32	19:33 (23)	20:31	38	19:22 (23)	20:47	27	06:12 (12)
29	07:20					06:45		05:51		19:01 (23)	05:16		05:39 (12)	05:13		05:46 (12)
	17:00					19:20		19:59	34	19:35 (23)	20:32	30	06:09 (12)	20:47	27	06:13 (12)
30	07:19					06:43		05:49		18:59 (23)	05:15		05:39 (12)	05:14		05:45 (12)
	17:01					19:21		20:00	36	19:35 (23)	20:33	31	06:10 (12)	20:47	28	06:13 (12)
31	07:18					06:41				05:15			05:38 (12)			
	17:03					19:22				20:34	31	06:09 (12)				
Potential sun hours	286		291		369		404		459		466					
Total, worst case		216		857		33		237		1367		839				
Sun reduction		0.41		0.48		0.51		0.49		0.56		0.59				
Oper. time red.		1.00		1.00		1.00		1.00		1.00		1.00				
Wind dir. red.		0.76		0.79		0.79		0.63		0.69		0.79				
Total reduction		0.31		0.38		0.41		0.31		0.39		0.47				
Total, real		67		327		13		74		527		394				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 136

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 241 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (830)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:46 (12)	05:42	06:05 (12)	06:18	06:54		06:34		15:48 (24)	07:14
2	05:15	05:45 (12)	05:43	06:06 (12)	06:19	06:55		06:35		15:48 (24)	07:15
3	05:15	05:46 (12)	05:44	06:07 (12)	06:20	06:56		06:37		15:50 (24)	07:16
4	05:16	05:45 (12)	05:45	06:07 (12)	06:22	06:58		06:38		15:50 (24)	07:17
5	05:16	05:45 (12)	05:46	06:07 (12)	06:23	06:59		06:40		15:52 (24)	07:18
6	05:17	05:46 (12)	05:47	06:07 (12)	06:24	07:00		06:41		15:53 (24)	07:19
7	05:18	05:45 (12)	05:48	06:07 (12)	06:25	07:01		06:42		15:56 (24)	07:20
8	05:18	05:45 (12)	05:50	06:07 (12)	06:26	07:03		06:44		15:59 (24)	07:21
9	05:19	05:45 (12)	05:51	06:07 (12)	06:28	07:04		06:45		16:01 (24)	07:22
10	05:20	05:45 (12)	05:52	06:07 (12)	06:29	07:05		06:46		16:02 (24)	07:23
11	05:21	05:45 (12)	05:53	06:07 (12)	06:30	07:06		06:48		16:04 (24)	07:24
12	05:22	05:46 (12)	05:54	06:07 (12)	06:31	07:08		06:49		16:05 (24)	07:25
13	05:22	05:47 (12)	05:56	06:07 (12)	06:32	07:09		06:50		16:06 (24)	07:26
14	05:23	05:48 (12)	05:57	06:07 (12)	06:33	07:10		06:52		16:08 (24)	07:27
15	05:24	05:49 (12)	05:58	06:07 (12)	06:35	07:11		06:53		16:10 (24)	07:28
16	05:25	05:49 (12)	05:59	06:07 (12)	06:36	07:13		06:55		16:12 (24)	07:29
17	05:26	05:50 (12)	06:00	06:07 (12)	06:37	07:14		06:56		16:14 (24)	07:30
18	05:27	05:51 (12)	06:01	06:07 (12)	06:38	07:15		06:57		16:16 (24)	07:31
19	05:28	05:52 (12)	06:03	06:07 (12)	06:39	07:17		06:59		16:18 (24)	07:32
20	05:29	05:53 (12)	06:04	06:07 (12)	06:41	07:18		07:00		16:20 (24)	07:33
21	05:30	05:54 (12)	06:05	06:07 (12)	06:42	07:19		07:01		16:22 (24)	07:34
22	05:31	05:55 (12)	06:06	06:07 (12)	06:43	07:21		07:02		16:24 (24)	07:35
23	05:32	05:56 (12)	06:07	06:07 (12)	06:44	07:22		07:03		16:26 (24)	07:36
24	05:33	05:57 (12)	06:09	06:07 (12)	06:45	07:23		07:04		16:28 (24)	07:37
25	05:34	05:58 (12)	06:10	06:07 (12)	06:46	07:24		07:05		16:30 (24)	07:38
26	05:35	05:59 (12)	06:11	06:07 (12)	06:47	07:25		07:06		16:32 (24)	07:39
27	05:36	06:00 (12)	06:12	06:07 (12)	06:48	07:26		07:07		16:34 (24)	07:40
28	05:37	06:01 (12)	06:13	06:07 (12)	06:49	07:27		07:08		16:36 (24)	07:41
29	05:38	06:02 (12)	06:14	06:07 (12)	06:50	07:28		07:09		16:38 (24)	07:42
30	05:39	06:03 (12)	06:15	06:07 (12)	06:51	07:29		07:10		16:40 (24)	07:43
31	05:40	06:04 (12)	06:16	06:07 (12)	06:52	07:30		07:11		16:42 (24)	07:44
Potential sun hours	472		436		376	341		288		275	
Total, worst case		1246		720		706		193		847	
Sun reduction		0.64		0.60		0.47		0.31		0.33	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.73		0.64		0.79		0.79		0.76	
Total reduction		0.47		0.38		0.37		0.25		0.25	
Total, real		588		276		264		48		213	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 242 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (831)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June						
1	07:35		14:57 (28)	07:17		06:36		16:35 (24)	06:39		05:48	18:57 (23)	05:14		05:38 (12)		
	16:26	39	15:36 (28)	17:04		17:43	26	17:01 (24)	19:24		20:00	34	19:31 (23)	20:34	24	06:02 (12)	
2	07:35		14:58 (28)	07:16		06:34		16:36 (24)	06:37		05:46		18:57 (23)	05:14		05:37 (12)	
	16:27	38	15:36 (28)	17:06		17:45	23	16:59 (24)	19:25		20:01	33	19:30 (23)	20:35	25	06:02 (12)	
3	07:35		14:59 (28)	07:15		06:32		16:37 (24)	06:35		05:45		18:57 (23)	05:13		05:37 (12)	
	16:28	38	15:37 (28)	17:07		17:46	20	16:57 (24)	19:26		20:02	33	19:30 (23)	20:36	26	06:03 (12)	
4	07:35		14:59 (28)	07:14		06:31		16:40 (24)	06:33		05:43		18:57 (23)	05:13		05:36 (12)	
	16:29	38	15:37 (28)	17:08		17:48	13	16:53 (24)	19:27		20:04	32	19:29 (23)	20:37	27	06:03 (12)	
5	07:35		15:00 (28)	07:12		06:29			06:32		05:42		18:58 (23)	05:12		05:36 (12)	
	16:30	38	15:38 (28)	17:10		17:49			19:29		20:05	31	19:29 (23)	20:38	28	06:04 (12)	
6	07:35		15:01 (28)	07:11		06:27			06:30		05:40		18:59 (23)	05:12		05:36 (12)	
	16:31	37	15:38 (28)	17:11		17:50			19:30		20:06	30	19:29 (23)	20:39	28	06:04 (12)	
7	07:34		15:02 (28)	07:10		06:25			06:28		05:39		19:00 (23)	05:11		05:35 (12)	
	16:32	37	15:39 (28)	17:13		17:52			19:31		20:07	28	19:28 (23)	20:39	29	06:04 (12)	
8	07:34		15:02 (28)	07:09		07:24			06:26		05:38		19:00 (23)	05:11		05:35 (12)	
	16:33	36	15:38 (28)	17:14		18:53			19:32		20:09	26	19:26 (23)	20:40	29	06:04 (12)	
9	07:34		15:03 (28)	07:07		07:22			06:24		05:36		19:01 (23)	05:11		05:35 (12)	
	16:34	35	15:38 (28)	17:16	5	16:46 (24)	18:54		19:34		20:10	25	19:26 (23)	20:41	30	06:05 (12)	
10	07:34		15:04 (28)	07:06		06:41	07:20		06:23		05:35		19:02 (23)	05:11		05:35 (12)	
	16:35	35	15:39 (28)	17:17	11	16:52 (24)	18:55		19:35		20:11	23	19:25 (23)	20:41	30	06:05 (12)	
11	07:33		15:04 (28)	07:04		06:39	07:18		06:21		05:34		19:04 (23)	05:10		05:34 (12)	
	16:36	34	15:38 (28)	17:18	15	16:54 (24)	18:57		19:36		20:12	19	19:23 (23)	20:42	31	06:05 (12)	
12	07:33		15:06 (28)	07:03		06:37 (24)	07:16		06:19		05:33		19:05 (23)	05:10		05:34 (12)	
	16:37	33	15:39 (28)	17:20	18	16:55 (24)	18:58		19:37		20:13	16	19:21 (23)	20:42	31	06:05 (12)	
13	07:33		15:06 (28)	07:02		06:36 (24)	07:14		06:17		05:31		19:07 (23)	05:10		05:34 (12)	
	16:39	32	15:38 (28)	17:21	21	16:57 (24)	18:59		19:39		20:15	11	19:18 (23)	20:43	31	06:05 (12)	
14	07:32		15:08 (28)	07:00		06:34 (24)	07:13		06:15		05:30			05:10		05:34 (12)	
	16:40	31	15:39 (28)	17:23	24	16:58 (24)	19:01		19:40		20:16			20:44	32	06:06 (12)	
15	07:32		15:08 (28)	06:59		06:34 (24)	07:11		06:14		05:29			05:10		05:34 (12)	
	16:41	30	15:38 (28)	17:24	26	17:00 (24)	19:02		19:41		20:17			20:44	32	06:06 (12)	
16	07:31		15:09 (28)	06:57		06:32 (24)	07:09		06:12		05:28			05:10		05:34 (12)	
	16:42	28	15:37 (28)	17:26	29	17:01 (24)	19:03		19:42		20:18			20:45	32	06:06 (12)	
17	07:30		15:11 (28)	06:56		06:32 (24)	07:07		06:10		05:27			05:10		05:34 (12)	
	16:44	26	15:37 (28)	17:27	31	17:03 (24)	19:05		19:44	9	19:20 (23)	20:19		20:45	32	06:06 (12)	
18	07:30		15:12 (28)	06:54		06:31 (24)	07:05		06:09		19:07 (23)	05:26				05:34 (12)	
	16:45	24	15:36 (28)	17:28	33	17:04 (24)	19:06		19:45	14	19:21 (23)	20:20	1	05:49 (12)	20:45	32	06:06 (12)
19	07:29		15:14 (28)	06:53		06:32 (24)	07:03		06:07		19:05 (23)	05:25		05:47 (12)	05:10		05:35 (12)
	16:46	21	15:35 (28)	17:30	34	17:06 (24)	19:07		19:46	17	19:22 (23)	20:21	5	05:52 (12)	20:46	33	06:08 (12)
20	07:28		15:15 (28)	06:51		06:31 (24)	07:01		06:05		19:04 (23)	05:24		05:46 (12)	05:10		05:35 (12)
	16:48	19	15:34 (28)	17:31	35	17:06 (24)	19:08		19:47	20	19:24 (23)	20:22	7	05:53 (12)	20:46	33	06:08 (12)
21	07:28		15:18 (28)	06:49		06:30 (24)	07:00		06:03		19:02 (23)	05:23		05:45 (12)	05:10		05:35 (12)
	16:49	15	15:33 (28)	17:33	36	17:06 (24)	19:10		19:49	23	19:25 (23)	20:24	9	05:54 (12)	20:46	33	06:08 (12)
22	07:27		15:22 (28)	06:48		06:31 (24)	06:58		06:02		19:00 (23)	05:22		05:44 (12)	05:11		05:35 (12)
	16:50	8	15:30 (28)	17:34	35	17:06 (24)	19:11		19:50	26	19:26 (23)	20:25	11	05:55 (12)	20:47	33	06:08 (12)
23	07:26		16:46			06:31 (24)	06:56		06:00		19:00 (23)	05:21		05:44 (12)	05:11		05:35 (12)
	16:52		17:35	35	17:06 (24)	19:12			19:51	27	19:27 (23)	20:26	13	05:57 (12)	20:47	33	06:08 (12)
24	07:25		16:44			06:31 (24)	06:54		05:59		18:59 (23)	05:20		05:43 (12)	05:11		05:36 (12)
	16:53		17:37	34	17:05 (24)	19:14			19:52	29	19:28 (23)	20:27	15	05:58 (12)	20:47	33	06:09 (12)
25	07:24		16:43			06:32 (24)	06:52		05:57		18:59 (23)	05:19		05:42 (12)	05:11		05:36 (12)
	16:54		17:38	33	17:05 (24)	19:15			19:54	31	19:30 (23)	20:28	16	05:58 (12)	20:47	32	06:08 (12)
26	07:23		16:41			06:32 (24)	06:50		05:55		18:58 (23)	05:18		05:41 (12)	05:12		05:36 (12)
	16:56		17:39	32	17:04 (24)	19:16			19:55	33	19:31 (23)	20:29	18	05:59 (12)	20:47	32	06:08 (12)
27	07:22		16:39			06:32 (24)	06:48		05:54		18:58 (23)	05:18		05:41 (12)	05:12		05:37 (12)
	16:57		17:41	31	17:03 (24)	19:17			19:56	34	19:32 (23)	20:30	19	06:00 (12)	20:47	32	06:09 (12)
28	07:22		16:38			06:33 (24)	06:46		05:52		18:57 (23)	05:17		05:40 (12)	05:13		05:37 (12)
	16:58		17:42	28	17:01 (24)	19:19			19:57	35	19:32 (23)	20:31	20	06:00 (12)	20:47	32	06:09 (12)
29	07:20					06:45			05:51		18:57 (23)	05:16		05:39 (12)	05:13		05:38 (12)
	17:00					19:20			19:59	35	19:32 (23)	20:32	21	06:00 (12)	20:47	32	06:10 (12)
30	07:19					06:43			05:49		18:57 (23)	05:15		05:39 (12)	05:14		05:38 (12)
	17:01					19:21			20:00	34	19:31 (23)	20:33	23	06:02 (12)	20:47	31	06:09 (12)
31	07:18					06:41					05:15			05:38 (12)			
	17:03					19:22					20:34	24	06:02 (12)				
Potential sun hours	286		291		369		82		404		459		466		918		
Total, worst case		672		546		82		367		543		918					
Sun reduction		0.41		0.48		0.51		0.49		0.56		0.59					
Oper. time red.		1.00		1.00		1.00		1.00		1.00		1.00					
Wind dir. red.		0.78		0.79		0.79		0.64		0.70		0.79					
Total reduction		0.32		0.38		0.40		0.32		0.39		0.47					
Total, real		216		207		33		116		213		432					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 242 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (831)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:39 (12)	05:42	19:15 (23)	06:18	06:54		06:34		16:11 (24)	07:14
	20:47	31	06:10 (12)	20:25	17	19:32 (23)	19:35	18:39	10	16:21 (24)	16:17
2	05:15		05:39 (12)	05:43		19:13 (23)	06:19	06:55			07:15
	20:47	31	06:10 (12)	20:24	20	19:33 (23)	19:33	18:37			16:17
3	05:15		05:40 (12)	05:44		19:11 (23)	06:20	06:56			07:16
	20:47	30	06:10 (12)	20:23	24	19:35 (23)	19:31	18:35			16:17
4	05:16		05:40 (12)	05:45		19:11 (23)	06:22	06:58			07:17
	20:46	30	06:10 (12)	20:21	25	19:36 (23)	19:30	18:33			16:16
5	05:16		05:41 (12)	05:46		19:10 (23)	06:23	06:59			07:18
	20:46	29	06:10 (12)	20:20	27	19:37 (23)	19:28	18:31			16:16
6	05:17		05:42 (12)	05:47		19:09 (23)	06:24	07:00			07:19
	20:46	29	06:11 (12)	20:19	29	19:38 (23)	19:26	18:29			16:16
7	05:18		05:42 (12)	05:48		19:08 (23)	06:25	07:01			07:20
	20:46	28	06:10 (12)	20:17	30	19:38 (23)	19:24	18:28			16:16
8	05:18		05:43 (12)	05:50		19:07 (23)	06:26	07:03			07:21
	20:45	27	06:10 (12)	20:16	32	19:39 (23)	19:22	18:26			16:16
9	05:19		05:44 (12)	05:51		19:06 (23)	06:28	07:04			07:22
	20:45	27	06:11 (12)	20:15	33	19:39 (23)	19:20	18:24	9	17:17 (24)	06:45
10	05:20		05:44 (12)	05:52		19:06 (23)	06:29	07:05			07:23
	20:44	26	06:10 (12)	20:13	33	19:39 (23)	19:18	18:22	16	17:29 (24)	06:46
11	05:21		05:45 (12)	05:53		19:05 (23)	06:30	07:06			07:24
	20:44	25	06:10 (12)	20:12	34	19:39 (23)	19:17	18:20	21	17:32 (24)	06:48
12	05:22		05:46 (12)	05:54		19:05 (23)	06:31	07:08			07:25
	20:43	24	06:10 (12)	20:10	34	19:39 (23)	19:15	18:19	25	17:33 (24)	06:49
13	05:22		05:47 (12)	05:56		19:05 (23)	06:32	07:09			07:26
	20:43	23	06:10 (12)	20:09	35	19:40 (23)	19:13	18:17	28	17:34 (24)	06:50
14	05:23		05:48 (12)	05:57		19:05 (23)	06:33	07:10			07:26
	20:42	22	06:10 (12)	20:07	35	19:40 (23)	19:11	18:15	29	17:35 (24)	06:52
15	05:24		05:49 (12)	05:58		19:05 (23)	06:35	07:11			07:27
	20:41	21	06:10 (12)	20:06	34	19:39 (23)	19:09	18:13	32	17:36 (24)	06:53
16	05:25		05:49 (12)	05:59		19:04 (23)	06:36	07:13			07:28
	20:41	20	06:09 (12)	20:04	35	19:39 (23)	19:07	18:12	33	17:36 (24)	06:55
17	05:26		05:50 (12)	06:00		19:04 (23)	06:37	07:14			07:28
	20:40	18	06:08 (12)	20:03	33	19:37 (23)	19:05	18:10	34	17:37 (24)	06:56
18	05:27		05:51 (12)	06:01		19:04 (23)	06:38	07:15			07:29
	20:39	17	06:08 (12)	20:01	31	19:35 (23)	19:03	18:08	34	17:36 (24)	06:57
19	05:28		05:52 (12)	06:03		19:05 (23)	06:39	07:17			07:30
	20:38	16	06:08 (12)	19:58	29	19:34 (23)	19:01	18:07	35	17:37 (24)	06:59
20	05:29		05:53 (12)	06:04		19:05 (23)	06:41	07:18			07:31
	20:38	14	06:07 (12)	19:56	27	19:32 (23)	19:00	18:05	35	17:37 (24)	07:00
21	05:30		05:54 (12)	06:05		19:06 (23)	06:42	07:19			07:31
	20:37	12	06:06 (12)	19:54	25	19:31 (23)	18:58	18:03	35	17:36 (24)	07:01
22	05:31		05:55 (12)	06:06		19:07 (23)	06:43	07:21			07:31
	20:36	10	06:05 (12)	19:53	22	19:29 (23)	18:56	18:02	34	17:36 (24)	07:02
23	05:32		05:56 (12)	06:07		19:08 (23)	06:44	07:22			07:32
	20:35	8	06:04 (12)	19:51	20	19:28 (23)	18:54	18:00	34	17:35 (24)	07:04
24	05:33		05:57 (12)	06:09		19:09 (23)	06:45	07:23			07:33
	20:34	6	06:03 (12)	19:49	17	19:26 (23)	18:52	17:58	32	17:33 (24)	07:05
25	05:34		05:58 (12)	06:10		19:11 (23)	06:47	07:25			07:33
	20:33	3	06:01 (12)	19:48	13	19:24 (23)	18:50	17:57	30	17:32 (24)	07:06
26	05:35			06:11		19:13 (23)	06:48	07:26			07:33
	20:32			19:46	9	19:22 (23)	18:48	17:55	28	17:30 (24)	07:08
27	05:36			06:12			06:49	07:27			07:33
	20:31			19:44			18:46	17:54	25	17:29 (24)	07:09
28	05:37			06:13			06:50	07:29			07:34
	20:30			19:42			18:44	17:52	23	17:27 (24)	07:10
29	05:38			06:14			06:51	07:30			07:34
	20:29			19:41			18:43	17:51	20	17:26 (24)	07:11
30	05:39		19:20 (23)	06:16			06:53	07:31			07:34
	20:28	7	19:27 (23)	19:39			18:41	17:49	17	17:24 (24)	07:12
31	05:40		19:17 (23)	06:17				07:33			07:35
	20:26	13	19:30 (23)	19:37				17:48	14	17:23 (24)	07:18
Potential sun hours	472		436			376	341		288		275
Total, worst case		547		703			623		276		1190
Sun reduction		0.64		0.60			0.47		0.31		0.33
Oper. time red.		1.00		1.00			1.00		1.00		1.00
Wind dir. red.		0.79		0.64			0.79		0.78		0.78
Total reduction		0.51		0.39			0.37		0.24		0.26
Total, real		277		271			231		67		308

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 139

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 243 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (832)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:01 (28)	07:17	06:36	16:36 (24)	06:39	05:48	18:58 (23)	05:14	05:38 (12)	
2	07:35	15:02 (28)	07:16	06:34	16:37 (24)	06:37	05:46	18:58 (23)	05:14	05:37 (12)	
3	07:35	15:02 (28)	07:15	06:32	16:38 (24)	06:35	05:45	18:58 (23)	05:13	05:37 (12)	
4	07:35	15:03 (28)	07:14	06:31	16:40 (24)	06:33	05:43	18:58 (23)	05:13	05:36 (12)	
5	07:35	15:04 (28)	07:12	06:29	16:42 (24)	06:32	05:42	18:59 (23)	05:12	05:36 (12)	
6	07:35	15:05 (28)	07:11	06:27	16:44 (24)	06:30	05:40	19:00 (23)	05:12	05:36 (12)	
7	07:34	15:05 (28)	07:10	06:25	16:46 (24)	06:28	05:39	19:01 (23)	05:11	05:35 (12)	
8	07:34	15:05 (28)	07:09	06:24	16:48 (24)	06:26	05:38	19:02 (23)	05:11	05:35 (12)	
9	07:34	15:06 (28)	07:07	06:22	16:50 (24)	06:24	05:36	19:03 (23)	05:11	05:35 (12)	
10	07:34	15:07 (28)	07:06	06:20	16:52 (24)	06:22	05:35	19:04 (23)	05:11	05:35 (12)	
11	07:33	15:08 (28)	07:04	06:18	16:54 (24)	06:20	05:34	19:05 (23)	05:10	05:34 (12)	
12	07:33	15:09 (28)	07:03	06:16	16:56 (24)	06:18	05:33	19:06 (23)	05:10	05:34 (12)	
13	07:33	15:09 (28)	07:02	06:15	16:58 (24)	06:17	05:31	19:07 (23)	05:10	05:34 (12)	
14	07:32	15:10 (28)	07:00	06:13	17:00 (24)	06:15	05:30	19:08 (23)	05:10	05:34 (12)	
15	07:32	15:11 (28)	06:59	06:12	17:02 (24)	06:14	05:29	19:09 (23)	05:10	05:34 (12)	
16	07:31	15:12 (28)	06:57	06:10	17:04 (24)	06:12	05:28	19:10 (23)	05:10	05:34 (12)	
17	07:30	15:13 (28)	06:56	06:09	17:06 (24)	06:11	05:27	19:11 (23)	05:10	05:34 (12)	
18	07:30	15:14 (28)	06:54	06:08	17:08 (24)	06:10	05:26	19:12 (23)	05:10	05:34 (12)	
19	07:29	15:15 (28)	06:52	06:07	17:10 (24)	06:09	05:25	19:13 (23)	05:10	05:34 (12)	
20	07:28	15:16 (28)	06:51	06:06	17:12 (24)	06:08	05:24	19:14 (23)	05:10	05:34 (12)	
21	07:28	15:17 (28)	06:49	06:05	17:14 (24)	06:07	05:23	19:15 (23)	05:10	05:34 (12)	
22	07:27	15:18 (28)	06:48	06:04	17:16 (24)	06:06	05:22	19:16 (23)	05:10	05:34 (12)	
23	07:26	15:19 (28)	06:46	06:03	17:18 (24)	06:05	05:21	19:17 (23)	05:10	05:34 (12)	
24	07:25	15:20 (28)	06:44	06:02	17:20 (24)	06:04	05:20	19:18 (23)	05:10	05:34 (12)	
25	07:24	15:21 (28)	06:43	06:01	17:22 (24)	06:03	05:19	19:19 (23)	05:10	05:34 (12)	
26	07:23	15:22 (28)	06:41	06:00	17:24 (24)	06:02	05:18	19:20 (23)	05:10	05:34 (12)	
27	07:22	15:23 (28)	06:40	05:59	17:26 (24)	06:01	05:17	19:21 (23)	05:10	05:34 (12)	
28	07:22	15:24 (28)	06:38	05:58	17:28 (24)	06:00	05:16	19:22 (23)	05:10	05:34 (12)	
29	07:20	15:25 (28)	06:36	05:57	17:30 (24)	05:59	05:15	19:23 (23)	05:10	05:34 (12)	
30	07:19	15:26 (28)	06:34	05:56	17:32 (24)	05:58	05:14	19:24 (23)	05:10	05:34 (12)	
31	07:18	15:27 (28)	06:32	05:55	17:34 (24)	05:57	05:13	19:25 (23)	05:10	05:34 (12)	
Potential sun hours	286	291	369	404	459	466	831				
Total, worst case	763	490	108	354	460	831					
Sun reduction	0.41	0.48	0.51	0.49	0.56	0.59					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.78	0.78	0.78	0.64	0.68	0.79					
Total reduction	0.32	0.38	0.40	0.32	0.39	0.47					
Total, real	246	186	43	112	178	391					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 140

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 243 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (832)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:39 (12)	05:42	19:16 (23)	06:18	06:54		06:34		07:14	14:50 (28)
2	05:15	05:39 (12)	05:43	19:14 (23)	06:19	06:55		06:35		07:15	14:50 (28)
3	05:15	05:40 (12)	05:44	19:13 (23)	06:20	06:56		06:37		07:16	14:49 (28)
4	05:16	05:40 (12)	05:45	19:12 (23)	06:22	06:58		06:38		07:17	14:50 (28)
5	05:16	05:41 (12)	05:46	19:11 (23)	06:23	06:59		06:40		07:18	14:51 (28)
6	05:17	05:42 (12)	05:47	19:10 (23)	06:24	07:00		06:41		07:19	14:51 (28)
7	05:18	05:43 (12)	05:50	19:09 (23)	06:25	07:01		06:42		07:20	14:51 (28)
8	05:18	05:44 (12)	05:51	19:08 (23)	06:26	07:03	17:21 (24)	06:44		07:21	14:51 (28)
9	05:19	05:44 (12)	05:51	19:07 (23)	06:28	07:04	17:22 (24)	06:45		07:22	14:52 (28)
10	05:20	05:44 (12)	05:52	19:06 (23)	06:29	07:05	17:23 (24)	06:46		07:23	14:52 (28)
11	05:21	05:45 (12)	05:53	19:05 (23)	06:30	07:06	17:24 (24)	06:48		07:24	14:52 (28)
12	05:22	05:46 (12)	05:54	19:04 (23)	06:31	07:08	17:25 (24)	06:49		07:25	14:53 (28)
13	05:22	05:47 (12)	05:56	19:03 (23)	06:32	07:09	17:26 (24)	06:50		07:26	14:52 (28)
14	05:23	05:48 (12)	05:57	19:02 (23)	06:33	07:10	17:27 (24)	06:52		07:27	14:53 (28)
15	05:24	05:49 (12)	05:58	19:01 (23)	06:35	07:11	17:28 (24)	06:53		07:28	14:54 (28)
16	05:25	05:50 (12)	06:00	19:00 (23)	06:37	07:12	17:29 (24)	06:55		07:29	14:54 (28)
17	05:26	05:51 (12)	06:01	18:59 (23)	06:38	07:13	17:30 (24)	06:56		07:30	14:55 (28)
18	05:27	05:52 (12)	06:03	18:58 (23)	06:40	07:14	17:31 (24)	06:58	15:00 (28)	07:31	14:56 (28)
19	05:28	05:53 (12)	06:04	18:57 (23)	06:41	07:15	17:32 (24)	06:59	15:01 (28)	07:32	14:56 (28)
20	05:29	05:54 (12)	06:05	18:56 (23)	06:42	07:16	17:33 (24)	07:00	15:02 (28)	07:33	14:57 (28)
21	05:30	05:55 (12)	06:06	18:55 (23)	06:43	07:17	17:34 (24)	07:01	15:03 (28)	07:34	14:57 (28)
22	05:31	05:56 (12)	06:07	18:54 (23)	06:44	07:18	17:35 (24)	07:02	15:04 (28)	07:35	14:58 (28)
23	05:32	05:57 (12)	06:08	18:53 (23)	06:45	07:19	17:36 (24)	07:03	15:05 (28)	07:36	14:58 (28)
24	05:33	05:58 (12)	06:09	18:52 (23)	06:46	07:20	17:37 (24)	07:04	15:06 (28)	07:37	14:59 (28)
25	05:34	05:59 (12)	06:10	18:51 (23)	06:47	07:21	17:38 (24)	07:05	15:07 (28)	07:38	14:59 (28)
26	05:35	06:00 (12)	06:11	18:50 (23)	06:48	07:22	17:39 (24)	07:06	15:08 (28)	07:39	15:00 (28)
27	05:36	06:01 (12)	06:12	18:49 (23)	06:49	07:23	17:40 (24)	07:07	15:09 (28)	07:40	15:00 (28)
28	05:37	06:02 (12)	06:13	18:48 (23)	06:50	07:24	17:41 (24)	07:08	15:10 (28)	07:41	15:01 (28)
29	05:38	06:03 (12)	06:14	18:47 (23)	06:51	07:25	17:42 (24)	07:09	15:11 (28)	07:42	15:01 (28)
30	05:39	06:04 (12)	06:15	18:46 (23)	06:52	07:26	17:43 (24)	07:10	15:12 (28)	07:43	15:02 (28)
31	05:40	06:05 (12)	06:16	18:45 (23)	06:53	07:27	17:44 (24)	07:11	15:13 (28)	07:44	15:02 (28)
Potential sun hours	472	431	679	376	341	604	288	344	1202		
Total, worst case						0.47		0.31	0.33		
Sun reduction			0.60			1.00		1.00	1.00		
Oper. time red.			0.64			0.78		0.78	0.78		
Wind dir. red.			0.39			0.37		0.24	0.26		
Total reduction			219			224		84	312		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 141

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 244 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (833)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June						
1	07:35	15:03 (28)	07:17		06:36	16:41 (24)	06:39		05:48	18:56 (23)	05:14	05:38 (12)					
	16:26	36	15:39 (28)	17:04	17:43	10	16:51 (24)	19:24	20:00	19	19:15 (23)	20:34	30	06:08 (12)			
2	07:35		15:04 (28)	07:16	06:34		06:37		05:46		18:57 (23)	05:14		05:37 (12)			
	16:27	35	15:39 (28)	17:06	17:45		19:25		20:01	16	19:13 (23)	20:35	31	06:08 (12)			
3	07:35		15:04 (28)	07:15	06:32		06:35		05:45		19:00 (23)	05:13		05:37 (12)			
	16:28	35	15:39 (28)	17:07	17:46		19:26		20:02	10	19:10 (23)	20:36	32	06:09 (12)			
4	07:35		15:05 (28)	07:14	06:31		06:33		05:43			05:13		05:36 (12)			
	16:29	35	15:40 (28)	17:08	17:48		19:27		20:04			20:37	32	06:08 (12)			
5	07:35		15:06 (28)	07:12	06:29		06:32		05:42			05:12		05:36 (12)			
	16:30	34	15:40 (28)	17:10	17:49		19:29		20:05			20:38	33	06:09 (12)			
6	07:35		15:07 (28)	07:11	06:27		06:30		05:40			05:12		05:36 (12)			
	16:31	34	15:41 (28)	17:11	17:50		19:30		20:06			20:39	34	06:10 (12)			
7	07:34		15:08 (28)	07:10	16:42 (24)	06:25	06:28		05:39			05:11		05:35 (12)			
	16:32	33	15:41 (28)	17:13	16:47 (24)	17:52	19:31		20:07			20:39	34	06:09 (12)			
8	07:34		15:08 (28)	07:09	16:39 (24)	07:24	06:26		05:38			05:11		05:35 (12)			
	16:33	32	15:40 (28)	17:14	16:49 (24)	18:53	19:32		20:09			20:40	35	06:10 (12)			
9	07:34		15:09 (28)	07:07	16:37 (24)	07:22	06:24		05:36			05:11		05:35 (12)			
	16:34	32	15:41 (28)	17:16	16:51 (24)	18:54	19:34		20:10			20:41	35	06:10 (12)			
10	07:34		15:10 (28)	07:06	16:35 (24)	07:20	06:23		19:07 (23)	05:35		05:11		05:35 (12)			
	16:35	31	15:41 (28)	17:17	16:52 (24)	18:55	19:35	5	19:12 (23)	20:11		20:41	36	06:11 (12)			
11	07:33		15:10 (28)	07:04	16:34 (24)	07:18	06:21		19:02 (23)	05:34		05:10		05:34 (12)			
	16:36	31	15:41 (28)	17:18	16:54 (24)	18:57	2	07:38 (25)	19:06	11	19:13 (23)	20:12	36	06:10 (12)			
12	07:33		15:12 (28)	07:03	16:33 (24)	07:16	06:19		18:59 (23)	05:33		05:10		05:34 (12)			
	16:37	29	15:41 (28)	17:20	16:55 (24)	18:58	7	07:44 (25)	19:37	15	19:14 (23)	20:13	37	06:11 (12)			
13	07:33		15:12 (28)	07:02	16:32 (24)	07:14	06:17		18:57 (23)	05:31		05:10		05:34 (12)			
	16:39	28	15:40 (28)	17:21	16:57 (24)	18:59	11	07:46 (25)	19:39	18	19:15 (23)	20:15	37	06:11 (12)			
14	07:32		15:14 (28)	07:00	16:31 (24)	07:13	06:15		18:56 (23)	05:30		05:10		05:34 (12)			
	16:40	27	15:41 (28)	17:23	16:58 (24)	19:01	13	07:46 (25)	19:40	21	19:17 (23)	20:16	37	06:11 (12)			
15	07:32		15:15 (28)	06:59	16:31 (24)	07:11	06:14		18:55 (23)	05:29		05:10		05:34 (12)			
	16:41	25	15:40 (28)	17:24	17:00 (24)	19:02	16	07:47 (25)	19:41	23	19:18 (23)	20:17	37	06:11 (12)			
16	07:31		15:16 (28)	06:57	16:30 (24)	07:09	06:12		18:53 (23)	05:28		05:10		05:34 (12)			
	16:42	23	15:39 (28)	17:26	17:01 (24)	19:03	18	07:47 (25)	19:42	26	19:19 (23)	20:18	3	05:53 (12)	20:45	38	06:12 (12)
17	07:30		15:18 (28)	06:56	16:31 (24)	07:07	06:10		18:53 (23)	05:27		05:49 (12)	05:10		05:34 (12)		
	16:44	21	15:39 (28)	17:27	17:03 (24)	19:05	20	07:47 (25)	19:44	27	19:20 (23)	20:19	7	05:56 (12)	20:45	38	06:12 (12)
18	07:30		15:19 (28)	06:54	16:30 (24)	07:05	06:09		18:52 (23)	05:26		05:48 (12)	05:10		05:34 (12)		
	16:45	19	15:38 (28)	17:28	17:03 (24)	19:06	22	07:47 (25)	19:45	29	19:21 (23)	20:20	9	05:57 (12)	20:45	38	06:12 (12)
19	07:29		15:21 (28)	06:52	16:31 (24)	07:03	06:07		18:51 (23)	05:25		05:47 (12)	05:10		05:35 (12)		
	16:46	15	15:36 (28)	17:30	17:03 (24)	19:07	23	07:46 (25)	19:46	31	19:22 (23)	20:21	12	05:59 (12)	20:46	38	06:13 (12)
20	07:28		15:23 (28)	06:51	16:30 (24)	07:01	06:05		18:51 (23)	05:24		05:46 (12)	05:10		05:35 (12)		
	16:48	11	15:34 (28)	17:31	17:03 (24)	19:08	23	07:47 (25)	19:47	33	19:24 (23)	20:22	14	06:00 (12)	20:46	38	06:13 (12)
21	07:28			06:49	16:30 (24)	07:00	06:03		18:51 (23)	05:23		05:45 (12)	05:10		05:35 (12)		
	16:49		17:33	32	17:02 (24)	19:10	22	07:46 (25)	19:49	32	19:23 (23)	20:24	16	06:01 (12)	20:46	38	06:13 (12)
22	07:27		06:48		16:31 (24)	06:58		07:25 (25)	06:02		18:50 (23)	05:22		05:44 (12)	05:11		05:35 (12)
	16:50		17:34	31	17:02 (24)	19:11	19	07:44 (25)	19:50	33	19:23 (23)	20:25	18	06:02 (12)	20:47	38	06:13 (12)
23	07:26		06:46		16:31 (24)	06:56		07:25 (25)	06:00		18:51 (23)	05:21		05:44 (12)	05:11		05:35 (12)
	16:52		17:35	30	17:01 (24)	19:12	18	07:43 (25)	19:51	32	19:23 (23)	20:26	19	06:03 (12)	20:47	38	06:13 (12)
24	07:25		06:44		16:32 (24)	06:54		07:27 (25)	05:58		18:50 (23)	05:20		05:43 (12)	05:11		05:36 (12)
	16:53		17:37	28	17:00 (24)	19:13	14	07:41 (25)	19:52	32	19:22 (23)	20:27	21	06:04 (12)	20:47	38	06:14 (12)
25	07:24		06:43		16:33 (24)	06:52		07:29 (25)	05:57		18:51 (23)	05:19		05:42 (12)	05:11		05:36 (12)
	16:54		17:38	27	17:00 (24)	19:15	8	07:37 (25)	19:54	31	19:22 (23)	20:28	22	06:04 (12)	20:47	38	06:14 (12)
26	07:23		06:41		16:34 (24)	06:50		05:55		18:51 (23)	05:18		05:41 (12)	05:12		05:36 (12)	
	16:56		17:39	24	16:58 (24)	19:16		19:55	30	19:21 (23)	20:29	24	06:05 (12)	20:47	38	06:14 (12)	
27	07:22		06:39		16:35 (24)	06:48		05:54		18:52 (23)	05:18		05:41 (12)	05:12		05:37 (12)	
	16:57		17:41	21	16:56 (24)	19:17		19:56	28	19:20 (23)	20:30	25	06:06 (12)	20:47	37	06:14 (12)	
28	07:22		06:38		16:37 (24)	06:46		05:52		18:52 (23)	05:17		05:40 (12)	05:13		05:37 (12)	
	16:58		17:42	16	16:53 (24)	19:19		19:57	27	19:19 (23)	20:31	26	06:06 (12)	20:47	37	06:14 (12)	
29	07:20				06:45			05:51		18:54 (23)	05:16		05:39 (12)	05:13		05:38 (12)	
	17:00				19:20			19:59	24	19:18 (23)	20:32	27	06:06 (12)	20:47	37	06:15 (12)	
30	07:19				06:43			05:49		18:54 (23)	05:15		05:39 (12)	05:14		05:38 (12)	
	17:01				19:21			20:00	22	19:16 (23)	20:33	28	06:07 (12)	20:47	37	06:15 (12)	
31	07:18				06:41					05:15		05:38 (12)					
	17:03				19:22					20:34	29	06:07 (12)					
Potential sun hours	286		291		369		404		459		466						
Total, worst case		566		539		246		530		345		1082					
Sun reduction		0.41		0.48		0.51		0.49		0.56		0.59					
Oper. time red.		1.00		1.00		1.00		1.00		1.00		1.00					
Wind dir. red.		0.78		0.79		0.69		0.66		0.78		0.79					
Total reduction		0.32		0.38		0.35		0.32		0.44		0.47					
Total, real		182		204		86		171		150		507					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
	Minutes with flicker					

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 142

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 244 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (833)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:39 (12)	05:42	06:18	19:01 (23)	06:54	07:15 (25)	06:34	16:05 (24)	07:14	14:52 (28)
2	05:15	05:39 (12)	05:43	06:19	19:05 (23)	06:55	07:16 (25)	06:35	16:06 (24)	07:15	14:52 (28)
3	05:15	05:40 (12)	05:44	06:20	19:10 (23)	06:56	07:21 (25)	06:37	16:09 (24)	07:16	14:52 (28)
4	05:16	05:41 (12)	05:45	06:22	19:15 (23)	06:57	07:26 (25)	06:38	16:14 (24)	07:17	14:53 (28)
5	05:16	05:42 (12)	05:46	06:23	19:20 (23)	06:58	07:31 (25)	06:39	16:19 (24)	07:18	14:53 (28)
6	05:17	05:43 (12)	05:47	06:24	19:25 (23)	06:59	07:36 (25)	06:40	16:24 (24)	07:19	14:53 (28)
7	05:18	05:44 (12)	05:48	06:25	19:30 (23)	07:00	07:41 (25)	06:41	16:29 (24)	07:20	14:53 (28)
8	05:18	05:45 (12)	05:49	06:26	19:35 (23)	07:01	07:46 (25)	06:42	16:34 (24)	07:21	14:53 (28)
9	05:19	05:46 (12)	05:50	06:27	19:40 (23)	07:02	07:51 (25)	06:43	16:39 (24)	07:22	14:54 (28)
10	05:20	05:47 (12)	05:51	06:28	19:45 (23)	07:03	07:56 (25)	06:44	16:44 (24)	07:23	14:54 (28)
11	05:21	05:48 (12)	05:52	06:29	19:50 (23)	07:04	08:01 (25)	06:45	16:49 (24)	07:24	14:54 (28)
12	05:22	05:49 (12)	05:53	06:30	19:55 (23)	07:05	08:06 (25)	06:46	16:54 (24)	07:25	14:55 (28)
13	05:22	05:50 (12)	05:54	06:31	20:00 (23)	07:06	08:11 (25)	06:47	16:59 (24)	07:26	14:55 (28)
14	05:23	05:51 (12)	05:55	06:32	20:05 (23)	07:07	08:16 (25)	06:48	17:04 (24)	07:27	14:56 (28)
15	05:24	05:52 (12)	05:56	06:33	20:10 (23)	07:08	08:21 (25)	06:49	17:09 (24)	07:28	14:56 (28)
16	05:25	05:53 (12)	05:57	06:34	20:15 (23)	07:09	08:26 (25)	06:50	17:14 (24)	07:29	14:57 (28)
17	05:26	05:54 (12)	05:58	06:35	20:20 (23)	07:10	08:31 (25)	06:51	17:19 (24)	07:30	14:57 (28)
18	05:27	05:55 (12)	06:00	06:36	20:25 (23)	07:11	08:36 (25)	06:52	17:24 (24)	07:31	14:58 (28)
19	05:28	05:56 (12)	06:01	06:37	20:30 (23)	07:12	08:41 (25)	06:53	17:29 (24)	07:32	14:58 (28)
20	05:29	05:57 (12)	06:02	06:38	20:35 (23)	07:13	08:46 (25)	06:54	17:34 (24)	07:33	14:59 (28)
21	05:30	05:58 (12)	06:03	06:39	20:40 (23)	07:14	08:51 (25)	06:55	17:39 (24)	07:34	14:59 (28)
22	05:31	05:59 (12)	06:04	06:40	20:45 (23)	07:15	08:56 (25)	06:56	17:44 (24)	07:35	14:59 (28)
23	05:32	06:00 (12)	06:05	06:41	20:50 (23)	07:16	09:01 (25)	06:57	17:49 (24)	07:36	15:00 (28)
24	05:33	06:01 (12)	06:06	06:42	20:55 (23)	07:17	09:06 (25)	06:58	17:54 (24)	07:37	15:00 (28)
25	05:34	06:02 (12)	06:07	06:43	21:00 (23)	07:18	09:11 (25)	06:59	17:59 (24)	07:38	15:01 (28)
26	05:35	06:03 (12)	06:08	06:44	21:05 (23)	07:19	09:16 (25)	07:00	18:04 (24)	07:39	15:01 (28)
27	05:36	06:04 (12)	06:09	06:45	21:10 (23)	07:20	09:21 (25)	07:01	18:09 (24)	07:40	15:02 (28)
28	05:37	06:05 (12)	06:10	06:46	21:15 (23)	07:21	09:26 (25)	07:02	18:14 (24)	07:41	15:02 (28)
29	05:38	06:06 (12)	06:11	06:47	21:20 (23)	07:22	09:31 (25)	07:03	18:19 (24)	07:42	15:03 (28)
30	05:39	06:07 (12)	06:12	06:48	21:25 (23)	07:23	09:36 (25)	07:04	18:24 (24)	07:43	15:03 (28)
31	05:40	06:08 (12)	06:13	06:49	21:30 (23)	07:24	09:41 (25)	07:05	18:29 (24)	07:44	15:04 (28)
Potential sun hours	472	436	376	341	288	275	1092	933	833	733	633
Total, worst case	690	565	242	518	240	1092	933	833	733	633	533
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.26	0.21	0.16	0.11	0.06	0.01
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.79	0.66	0.68	0.79	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Total reduction	0.51	0.39	0.37	0.37	0.24	0.26	0.26	0.26	0.26	0.26	0.26
Total, real	351	223	89	192	58	282	833	733	633	533	433

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 245 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (834)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	14:56 (28)	07:17		06:36	06:39		05:48	18:58 (23)	05:14	05:38 (12)
	16:26	29	15:25 (28)	17:04		17:43	19:24		20:00	19:03 (23)	20:34
2	07:35		14:57 (28)	07:16	16:32 (24)	06:34	06:37		05:46		05:37 (12)
	16:27	28	15:25 (28)	17:06	8	16:40 (24)	17:45		20:01		20:35
3	07:35		14:58 (28)	07:15		16:30 (24)	06:32		05:45		05:38 (12)
	16:28	27	15:25 (28)	17:07	12	16:42 (24)	17:46		20:02		20:36
4	07:35		14:59 (28)	07:14		16:27 (24)	06:31		05:43		05:37 (12)
	16:29	26	15:25 (28)	17:08	15	16:42 (24)	17:48		20:04		20:37
5	07:35		15:00 (28)	07:12		16:26 (24)	06:29		05:42		05:38 (12)
	16:30	25	15:25 (28)	17:10	18	16:44 (24)	17:49		20:05		20:38
6	07:35		15:01 (28)	07:11		16:25 (24)	06:27		05:40		05:39 (12)
	16:31	24	15:25 (28)	17:11	21	16:46 (24)	17:50		20:06		20:39
7	07:34		15:03 (28)	07:10		16:24 (24)	06:25	19:04 (23)	05:39		05:38 (12)
	16:32	22	15:25 (28)	17:13	23	16:47 (24)	17:52	19:07 (23)	20:07		20:39
8	07:34		15:03 (28)	07:09		16:24 (24)	07:24	18:58 (23)	05:38	05:59 (12)	05:11
	16:33	21	15:24 (28)	17:14	25	16:49 (24)	18:53	19:09 (23)	20:09	4	06:03 (12)
9	07:34		15:05 (28)	07:07		16:23 (24)	07:22	18:56 (23)	05:36		05:58 (12)
	16:34	19	15:24 (28)	17:16	28	16:51 (24)	18:54	19:11 (23)	20:10	8	06:06 (12)
10	07:34		15:07 (28)	07:06		16:22 (24)	07:20	18:53 (23)	05:35		05:57 (12)
	16:35	17	15:24 (28)	17:17	30	16:52 (24)	18:55	19:12 (23)	20:11	11	06:08 (12)
11	07:33		15:08 (28)	07:04		16:22 (24)	07:18	18:51 (23)	05:34		05:56 (12)
	16:36	14	15:22 (28)	17:18	32	16:54 (24)	18:57	19:13 (23)	20:12	13	06:09 (12)
12	07:33		15:11 (28)	07:03		16:22 (24)	07:16	18:50 (23)	05:33		05:54 (12)
	16:37	10	15:21 (28)	17:20	32	16:54 (24)	18:58	19:14 (23)	20:13	16	06:10 (12)
13	07:33		15:15 (28)	07:02		16:22 (24)	07:14	18:48 (23)	05:31		05:53 (12)
	16:39	2	15:17 (28)	17:21	33	16:55 (24)	18:59	19:15 (23)	20:15	18	06:11 (12)
14	07:32		15:17 (28)	17:21		16:21 (24)	07:13	18:48 (23)	05:30		05:52 (12)
	16:40		17:23	34	16:55 (24)	19:01	19:40	19:17 (23)	20:16	20	06:12 (12)
15	07:32		16:59		16:22 (24)	07:11	06:14	18:47 (23)	05:29		05:51 (12)
	16:41		17:24	33	16:55 (24)	19:02	19:41	19:18 (23)	20:17	22	06:13 (12)
16	07:31		16:57		16:22 (24)	07:09	06:12	18:46 (23)	05:28		05:50 (12)
	16:42		17:26	33	16:55 (24)	19:03	19:42	19:19 (23)	20:18	23	06:13 (12)
17	07:30		16:56		16:23 (24)	07:07	06:10	18:46 (23)	05:27		05:49 (12)
	16:44		17:27	32	16:55 (24)	19:05	19:44	19:20 (23)	20:19	25	06:14 (12)
18	07:30		16:54		16:23 (24)	07:05	06:09	18:46 (23)	05:26		05:48 (12)
	16:45		17:28	31	16:54 (24)	19:06	19:45	19:19 (23)	20:20	26	06:14 (12)
19	07:29		16:52		16:24 (24)	07:03	06:07	18:45 (23)	05:25		05:47 (12)
	16:46		17:30	30	16:54 (24)	19:07	19:46	19:19 (23)	20:21	28	06:15 (12)
20	07:28		16:51		16:24 (24)	07:01	06:05	18:46 (23)	05:24		05:46 (12)
	16:48		17:31	29	16:53 (24)	19:08	19:47	19:19 (23)	20:22	29	06:15 (12)
21	07:28		16:49		16:25 (24)	07:00	06:03	18:45 (23)	05:23		05:45 (12)
	16:49		17:33	26	16:51 (24)	19:10	19:49	19:18 (23)	20:24	30	06:15 (12)
22	07:27		16:48		16:27 (24)	06:58	06:02	18:45 (23)	05:22		05:44 (12)
	16:50		17:34	24	16:51 (24)	19:11	19:50	19:17 (23)	20:25	32	06:16 (12)
23	07:26		16:46		16:28 (24)	06:56	06:00	18:46 (23)	05:21		05:44 (12)
	16:52		17:35	21	16:49 (24)	19:12	19:51	19:17 (23)	20:26	33	06:17 (12)
24	07:25		16:44		16:30 (24)	06:54	05:59	18:46 (23)	05:20		05:43 (12)
	16:53		17:37	16	16:46 (24)	19:14	19:52	19:16 (23)	20:27	34	06:17 (12)
25	07:24		16:43		16:34 (24)	06:52	05:57	18:47 (23)	05:19		05:42 (12)
	16:54		17:38	9	16:43 (24)	19:15	19:54	19:16 (23)	20:28	35	06:17 (12)
26	07:23		16:41		16:30 (24)	06:50	05:55	18:47 (23)	05:18		05:41 (12)
	16:56		17:39		16:30 (24)	06:50	05:55	19:14 (23)	20:29	36	06:17 (12)
27	07:22		16:39		16:28 (24)	06:48	05:54	18:49 (23)	05:18		05:41 (12)
	16:57		17:41		16:27 (24)	06:46	05:52	19:13 (23)	20:30	36	06:17 (12)
28	07:22		16:38		16:27 (24)	06:46	05:52	18:50 (23)	05:17		05:40 (12)
	16:58		17:42		16:27 (24)	06:46	05:52	19:11 (23)	20:31	37	06:17 (12)
29	07:20				16:27 (24)	06:46	05:51	18:52 (23)	05:16		05:39 (12)
	17:00				16:27 (24)	06:46	05:51	19:10 (23)	20:32	38	06:17 (12)
30	07:19				16:27 (24)	06:46	05:49	18:54 (23)	05:15		05:39 (12)
	17:01				16:27 (24)	06:46	05:49	19:07 (23)	20:33	39	06:18 (12)
31	07:18				16:27 (24)	06:46	05:47				
	17:03				16:27 (24)	06:46	05:47				
Potential sun hours	286		291		369	404		459		466	
Total, worst case		264		595		606		637		1152	
Sun reduction		0.41		0.48		0.49		0.56		0.59	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.77		0.79		0.67		0.79		0.79	
Total reduction		0.32		0.38		0.33		0.44		0.47	
Total, real		84		226		198		282		537	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 144

Licensed user:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 245 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (834)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December							
1	05:14		05:44 (12)	05:42		06:05 (12)	06:18		18:50 (23)	06:54		06:34		15:52 (24)	07:14		14:50 (28)	
	20:47	39	06:23 (12)	20:25	15	06:20 (12)	19:35	22	19:12 (23)	18:39		16:46	29	16:21 (24)	16:17	14	15:04 (28)	
2	05:15		05:44 (12)	05:43		06:06 (12)	06:19		18:51 (23)	06:55		06:35		15:52 (24)	07:15		14:49 (28)	
	20:47	39	06:23 (12)	20:24	12	06:18 (12)	19:33	19	19:10 (23)	18:37		16:45	27	16:19 (24)	16:17	17	15:06 (28)	
3	05:15		05:45 (12)	05:44		06:07 (12)	06:20		18:53 (23)	06:56		06:37		15:53 (24)	07:16		14:48 (28)	
	20:47	38	06:23 (12)	20:23	10	06:17 (12)	19:31	15	19:08 (23)	18:35		16:43	25	16:18 (24)	16:17	19	15:07 (28)	
4	05:16		05:44 (12)	05:45		06:09 (12)	06:22		18:55 (23)	06:58		06:38		15:54 (24)	07:17		14:48 (28)	
	20:46	39	06:23 (12)	20:21	7	06:16 (12)	19:30	11	19:06 (23)	18:33		16:42	23	16:17 (24)	16:16	21	15:09 (28)	
5	05:16		05:44 (12)	05:46		06:10 (12)	06:23		19:00 (23)	06:59		06:40		15:55 (24)	07:18		14:48 (28)	
	20:46	40	06:24 (12)	20:20	2	06:12 (12)	19:28	4	19:04 (23)	18:31		16:41	21	16:16 (24)	16:16	22	15:10 (28)	
6	05:17		05:45 (12)	05:47			06:24			07:00		06:41		15:56 (24)	07:19		14:47 (28)	
	20:46	39	06:24 (12)	20:19			19:26			18:29		16:39	18	16:14 (24)	16:16	24	15:11 (28)	
7	05:18		05:44 (12)	05:48			06:25			07:01		06:42		15:58 (24)	07:20		14:47 (28)	
	20:46	40	06:24 (12)	20:17			19:24			18:28		16:38	15	16:13 (24)	16:16	25	15:12 (28)	
8	05:18		05:45 (12)	05:50			06:26			07:03		06:44		16:00 (24)	07:21		14:47 (28)	
	20:45	40	06:25 (12)	20:16			19:22			18:26		16:37	11	16:11 (24)	16:16	26	15:13 (28)	
9	05:19		05:45 (12)	05:51			06:28			07:04		06:45		16:03 (24)	07:22		14:47 (28)	
	20:45	40	06:25 (12)	20:15			19:20			18:24		16:36	8	16:11 (24)	16:16	27	15:14 (28)	
10	05:20		05:44 (12)	05:52			06:29			07:05		06:46			07:23		14:47 (28)	
	20:44	41	06:25 (12)	20:13			19:18			18:22		16:35			16:16	28	15:15 (28)	
11	05:21		05:45 (12)	05:53			06:30			07:06		06:48			07:24		14:47 (28)	
	20:44	40	06:25 (12)	20:12			19:17			18:20		16:33			16:16	29	15:16 (28)	
12	05:22		05:46 (12)	05:54		19:04 (23)	06:31			07:08		06:49			07:25		14:47 (28)	
	20:43	40	06:26 (12)	20:10	8		19:12 (23)	19:15		18:19		16:32			16:16	29	15:16 (28)	
13	05:22		05:47 (12)	05:56		19:01 (23)	06:32			07:09		06:50			07:26		14:47 (28)	
	20:43	39	06:26 (12)	20:09	15	19:16 (23)	19:13			18:17		16:31			16:16	29	15:16 (28)	
14	05:23		05:48 (12)	05:57		18:59 (23)	06:33			07:10		06:52			07:26		14:47 (28)	
	20:42	38	06:26 (12)	20:07	19	19:18 (23)	19:11			18:15		16:30			16:16	30	15:17 (28)	
15	05:24		05:49 (12)	05:58		18:57 (23)	06:35			07:11		06:53			07:27		14:48 (28)	
	20:41	38	06:27 (12)	20:06	22	19:19 (23)	19:09			18:13		16:29			16:16	30	15:18 (28)	
16	05:25		05:49 (12)	05:59		18:55 (23)	06:36			07:13		06:55			07:28		14:48 (28)	
	20:41	37	06:26 (12)	20:04	25	19:20 (23)	19:07			18:12		16:28			16:16	31	15:19 (28)	
17	05:26		05:50 (12)	06:00		18:54 (23)	06:37			07:14	17:04 (24)	06:56			07:29		14:48 (28)	
	20:40	36	06:26 (12)	20:03	27	19:21 (23)	19:05		18:10	12	17:16 (24)	16:27			16:17	31	15:19 (28)	
18	05:27		05:51 (12)	06:01		18:53 (23)	06:38			07:15	17:00 (24)	06:57			07:29		14:49 (28)	
	20:39	35	06:26 (12)	20:01	28	19:21 (23)	19:03		18:08	18	17:18 (24)	16:26			16:17	31	15:20 (28)	
19	05:28		05:52 (12)	06:03		18:52 (23)	06:39			07:17	16:59 (24)	06:59			07:30		14:49 (28)	
	20:38	34	06:26 (12)	19:58	30	19:22 (23)	19:01		18:07	22	17:21 (24)	16:25			16:17	32	15:21 (28)	
20	05:29		05:53 (12)	06:04		18:51 (23)	06:41			07:18	16:57 (24)	07:00			07:31		14:49 (28)	
	20:38	33	06:26 (12)	19:56	31	19:22 (23)	19:00		18:05	24	17:21 (24)	16:24			16:18	32	15:21 (28)	
21	05:30		05:54 (12)	06:05		18:51 (23)	06:42			07:19	16:55 (24)	07:01			07:31		14:50 (28)	
	20:37	32	06:26 (12)	19:54	32	19:23 (23)	18:58		18:03	27	17:22 (24)	16:24			16:18	32	15:22 (28)	
22	05:31		05:55 (12)	06:06		18:50 (23)	06:43			07:21	16:54 (24)	07:02			07:32		14:50 (28)	
	20:36	31	06:26 (12)	19:53	33	19:23 (23)	18:56		18:02	29	17:23 (24)	16:23			16:19	32	15:22 (28)	
23	05:32		05:56 (12)	06:07		18:49 (23)	06:44			07:22	16:53 (24)	07:04			07:32		14:51 (28)	
	20:35	30	06:26 (12)	19:51	34	19:23 (23)	18:54		18:00	31	17:24 (24)	16:22			16:19	32	15:23 (28)	
24	05:33		05:57 (12)	06:09		18:49 (23)	06:45			07:23	16:52 (24)	07:05			07:33		14:51 (28)	
	20:34	29	06:26 (12)	19:49	34	19:23 (23)	18:52		17:58	32	17:24 (24)	16:21			16:20	32	15:23 (28)	
25	05:34		05:58 (12)	06:10		18:48 (23)	06:47			07:25	16:52 (24)	07:06			07:33		14:52 (28)	
	20:33	27	06:25 (12)	19:48	34	19:22 (23)	18:50		17:57	33	17:25 (24)	16:21			16:20	31	15:23 (28)	
26	05:35		05:59 (12)	06:11		18:48 (23)	06:48			07:26	16:51 (24)	07:08			07:33		14:53 (28)	
	20:32	26	06:25 (12)	19:46	34	19:22 (23)	18:48		17:55	33	17:24 (24)	16:20			16:21	31	15:24 (28)	
27	05:36		06:00 (12)	06:12		18:48 (23)	06:49			07:27	16:52 (24)	07:09			07:34		14:53 (28)	
	20:31	24	06:24 (12)	19:44	32	19:20 (23)	18:46		17:54	33	17:25 (24)	16:19			16:22	31	15:24 (28)	
28	05:37		06:01 (12)	06:13		18:49 (23)	06:50			07:29	16:51 (24)	07:10			07:34		14:54 (28)	
	20:30	23	06:24 (12)	19:42	30	19:19 (23)	18:44		17:52	33	17:24 (24)	16:19			16:22	30	15:24 (28)	
29	05:38		06:02 (12)	06:14		18:49 (23)	06:51			07:30	16:52 (24)	07:11		14:56 (28)	07:34		14:54 (28)	
	20:29	21	06:23 (12)	19:41	29	19:18 (23)	18:43		17:51	33	17:25 (24)	16:18		2	14:58 (28)	16:23	30	15:24 (28)
30	05:39		06:03 (12)	06:16		18:49 (23)	06:53			07:31	16:51 (24)	07:12		14:52 (28)	07:34		14:55 (28)	
	20:28	19	06:22 (12)	19:39	27	19:16 (23)	18:41		17:49	33	17:24 (24)	16:18		10	15:02 (28)	16:24	29	15:24 (28)
31	05:40		06:04 (12)	06:17		18:50 (23)				07:33	16:52 (24)				07:35		14:55 (28)	
	20:26	17	06:21 (12)	19:37	24	19:14 (23)			17:48	31	17:23 (24)				16:25	29	15:24 (28)	
Potential sun hours	472		436			376			341		288				275			
Total, worst case	1044		594			71			424		189				866			
Sun reduction	0.64		0.60			0.54			0.47		0.31				0.33			
Oper. time red.	1.00		1.00			1.00			1.00		1.00				1.00			
Wind dir. red.	0.79		0.68			0.67			0.79		0.79				0.77			
Total reduction	0.51		0.41			0.36			0.37		0.24				0.26			
Total, real	528		241			26			158		46				221			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 246 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (835)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	14:50 (24)	07:17	15:15 (24)	06:36	06:39		05:48		06:13 (12)	05:14
2	07:35	14:50 (24)	07:16	15:19 (24)	06:34	06:37		05:46		06:14 (12)	05:14
3	07:35	14:51 (24)	07:15	15:25 (24)	06:32	06:35		05:45		06:15 (12)	05:13
4	07:35	14:51 (24)	07:14	15:30 (24)	06:31	06:34		05:43		06:17 (12)	05:13
5	07:35	14:52 (24)	07:12		06:29	06:32		05:42		06:20 (12)	05:12
6	07:35	14:53 (24)	07:11		06:27	06:30		05:40		18:19 (23)	05:12
7	07:34	14:53 (24)	07:10		06:25	06:28		05:39		18:20 (23)	05:12
8	07:34	14:53 (24)	07:09		06:24	06:27		05:38		18:20 (23)	05:11
9	07:34	14:54 (24)	07:07		06:22	06:24		05:36		18:20 (23)	05:11
10	07:34	14:55 (24)	07:06		06:20	06:23		05:35		18:21 (23)	05:11
11	07:33	14:55 (24)	07:04		06:18	06:21	10	18:58 (23)	20:11	54	19:15 (23)
12	07:33	14:56 (24)	07:03		06:16	06:19	21	18:38 (23)	05:33	54	19:15 (23)
13	07:33	14:56 (24)	07:02		06:14	06:17	27	18:35 (23)	05:31	52	19:13 (23)
14	07:32	14:57 (24)	07:00		06:12	06:15	32	18:33 (23)	05:30	51	19:13 (23)
15	07:32	14:57 (24)	06:59		06:10	06:13	37	18:31 (23)	05:29	49	19:12 (23)
16	07:31	14:57 (24)	06:57		06:08	06:11	40	18:29 (23)	05:27	49	19:12 (23)
17	07:30	14:58 (24)	06:56		06:06	06:09	44	18:27 (23)	05:26	47	19:11 (23)
18	07:30	14:59 (24)	06:54		06:04	06:07	51	18:25 (23)	05:25	45	19:10 (23)
19	07:29	14:59 (24)	06:53		06:02	06:05	55	18:23 (23)	05:24	44	19:10 (23)
20	07:28	15:00 (24)	06:51		06:00	06:03	60	18:21 (23)	05:23	42	19:09 (23)
21	07:28	15:01 (24)	06:49		05:58	06:01	63	18:19 (23)	05:22	40	19:08 (23)
22	07:27	15:02 (24)	06:48		05:56	06:00	67	18:17 (23)	05:21	39	19:07 (23)
23	07:26	15:03 (24)	06:46		05:54	06:02	70	18:15 (23)	05:20	37	19:06 (23)
24	07:25	15:03 (24)	06:44		05:52	06:01	73	18:13 (23)	05:19	35	18:31 (23)
25	07:24	15:04 (24)	06:43		05:50	06:00	75	18:11 (23)	05:18	33	18:32 (23)
26	07:23	15:05 (24)	06:41		05:48	06:00	78	18:09 (23)	05:17	31	18:33 (23)
27	07:23	15:06 (24)	06:41		05:46	06:00	79	18:07 (23)	05:16	28	18:34 (23)
28	07:22	15:07 (24)	06:39		05:44	06:00	81	18:05 (23)	05:15	25	18:37 (23)
29	07:20	15:08 (24)	06:38		05:42	06:00	82	18:03 (23)	05:14	22	18:38 (23)
30	07:19	15:09 (24)	06:37		05:40	06:00	84	18:01 (23)	05:13	19	18:39 (23)
31	07:18	15:10 (24)	06:36		05:38	06:00	81	17:59 (23)	05:12	15	18:40 (23)
Potential sun hours	286	291	369	404	459	466					
Total, worst case	1404	43	1210	1410							
Sun reduction	0.41	0.48	0.49	0.56							
Oper. time red.	1.00	1.00	1.00	1.00							
Wind dir. red.	0.78	0.78	0.68	0.67							
Total reduction	0.33	0.38	0.34	0.38							
Total, real	457	16	411	535							

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 246 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (835)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42	18:32 (23)	06:18	18:41 (23)	06:54	06:34			07:14	14:37 (24)
2	05:15	05:43	18:31 (23)	06:19	18:46 (23)	06:55	06:35			07:15	14:37 (24)
3	05:15	05:44	18:30 (23)	06:20	18:56 (23)	06:56	06:37			07:16	14:37 (24)
4	05:16	05:45	18:31 (23)	06:22		06:58	06:38			07:17	14:38 (24)
5	05:16	05:46	18:30 (23)	06:23		06:59	06:40			07:18	14:38 (24)
6	05:17	05:47	18:29 (23)	06:24		07:00	06:41			07:19	14:39 (24)
7	05:18	05:48	18:29 (23)	06:25		07:01	06:42			07:20	14:39 (24)
8	05:18	05:50	18:28 (12)	06:26		07:03	06:44			07:21	14:39 (24)
9	05:19	05:51	18:28 (12)	06:28		07:04	06:45			07:22	14:40 (24)
10	05:20	05:52	18:26 (12)	06:29		07:05	06:46			07:23	14:40 (24)
11	05:21	05:53	18:26 (12)	06:30		07:06	06:48			07:24	14:41 (24)
12	05:22	05:54	18:25 (12)	06:31		07:08	06:49			07:25	14:42 (24)
13	05:22	05:56	18:25 (12)	06:32		07:09	06:50			07:26	14:41 (24)
14	05:23	05:57	18:24 (12)	06:33		07:10	06:52			07:26	14:42 (24)
15	05:24	05:58	18:24 (12)	06:35		07:11	06:53			07:27	14:43 (24)
16	05:25	05:59	18:23 (12)	06:36		07:13	06:55			07:28	14:43 (24)
17	05:26	06:00	18:23 (12)	06:37		07:14	06:56			07:29	14:43 (24)
18	05:27	06:01	18:23 (12)	06:38		07:15	06:57			07:29	14:44 (24)
19	05:28	06:03	18:23 (12)	06:39		07:17	06:59			07:30	14:45 (24)
20	05:29	06:04	18:22 (12)	06:41		07:18	07:00			07:31	14:45 (24)
21	05:30	06:05	18:22 (12)	06:42		07:19	07:01			07:31	14:46 (24)
22	05:31	06:06	18:22 (12)	06:43		07:21	07:02			07:32	14:46 (24)
23	05:32	06:07	18:21 (12)	06:44		07:22	07:04			07:32	14:47 (24)
24	05:33	06:09	18:21 (12)	06:45		07:23	07:05			07:33	14:47 (24)
25	05:34	06:10	18:21 (12)	06:47		07:25	07:06			07:33	14:47 (24)
26	05:35	06:11	18:21 (12)	06:48		07:26	07:08			07:33	14:48 (24)
27	05:36	06:12	18:21 (12)	06:49		07:27	07:09			07:34	14:48 (24)
28	05:37	06:13	18:21 (12)	06:50		07:29	07:10			07:34	14:49 (24)
29	05:38	06:14	18:21 (12)	06:51		07:30	07:11			07:34	14:49 (24)
30	05:39	06:16	18:21 (12)	06:53		07:31	07:12			07:34	14:49 (24)
31	05:41	06:17	18:21 (12)	06:53		07:31	07:12			07:34	14:49 (24)
Potential sun hours	472	436	376	341	288	275	1552				
Total, worst case	688	1935	30	0.54	0.31	0.33	1.00			0.78	0.26
Sun reduction	0.64	0.60	0.54	0.31	0.33	1.00	0.78			0.26	0.407
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00	0.78			0.26	0.407
Wind dir. red.	0.66	0.68	0.66	0.78	0.78	0.78	0.25			0.26	0.407
Total reduction	0.43	0.41	0.36	0.25	0.25	0.25	0.25			0.25	0.407
Total, real	296	800	11	221	407						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 247 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (836)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:24 (24)	07:17	15:23 (24)	06:36	06:39		05:48		06:09 (12)	05:14
	16:26	29	15:53 (24)	17:04	53	16:16 (24)	17:43	19:24	40	19:31 (23)	20:34
2	07:35		15:24 (24)	07:16		15:23 (24)	06:34	06:37		06:07 (12)	05:14
	16:27	30	15:54 (24)	17:06	53	16:16 (24)	17:45	19:25	45	19:32 (23)	20:35
3	07:35		15:24 (24)	07:15		15:24 (24)	06:32	06:35		06:06 (12)	05:13
	16:28	31	15:55 (24)	17:07	52	16:16 (24)	17:46	19:26	51	19:34 (23)	20:36
4	07:35		15:24 (24)	07:14		15:24 (24)	06:31	06:34		06:04 (12)	05:13
	16:29	32	15:56 (24)	17:08	51	16:15 (24)	17:48	19:27	55	19:35 (23)	20:37
5	07:35		15:24 (24)	07:12		15:24 (24)	06:29	06:32		06:03 (12)	05:12
	16:30	34	15:58 (24)	17:10	51	16:15 (24)	17:49	19:29	60	19:37 (23)	20:38
6	07:35		15:24 (24)	07:11		15:25 (24)	06:27	06:30		06:02 (12)	05:12
	16:31	35	15:59 (24)	17:11	50	16:15 (24)	17:50	19:30	63	19:38 (23)	20:39
7	07:34		15:24 (24)	07:10		15:26 (24)	06:25	06:28		06:01 (12)	05:12
	16:32	36	16:00 (24)	17:13	49	16:15 (24)	17:52	19:31	66	19:39 (23)	20:39
8	07:34		15:23 (24)	07:09		15:27 (24)	07:24	06:26		05:59 (12)	05:11
	16:33	37	16:00 (24)	17:14	47	16:14 (24)	18:53	19:32	69	19:39 (23)	20:40
9	07:34		15:23 (24)	07:07		15:28 (24)	07:22	06:24		05:58 (12)	05:11
	16:34	39	16:02 (24)	17:16	46	16:14 (24)	18:54	19:34	71	19:40 (23)	20:41
10	07:34		15:23 (24)	07:06		15:28 (24)	07:20	06:23		05:57 (12)	05:11
	16:35	40	16:03 (24)	17:17	45	16:13 (24)	18:55	19:35	73	19:41 (23)	20:41
11	07:33		15:23 (24)	07:04		15:30 (24)	07:18	06:21		05:58 (12)	05:10
	16:36	41	16:04 (24)	17:18	42	16:12 (24)	18:57	19:36	74	19:42 (23)	20:42
12	07:33		15:23 (24)	07:03		15:30 (24)	07:16	06:19		05:57 (12)	05:10
	16:37	42	16:05 (24)	17:20	41	16:11 (24)	18:58	19:37	74	19:42 (23)	20:43
13	07:33		15:22 (24)	07:02		15:32 (24)	07:14	06:17		05:58 (12)	05:10
	16:39	43	16:05 (24)	17:21	38	16:10 (24)	18:59	19:39	72	19:42 (23)	20:43
14	07:32		15:23 (24)	07:00		15:33 (24)	07:13	06:15		05:59 (12)	05:10
	16:40	44	16:07 (24)	17:23	35	16:08 (24)	19:01	19:40	71	19:43 (23)	20:44
15	07:32		15:22 (24)	06:59		15:36 (24)	07:11	06:14		06:01 (12)	05:10
	16:41	45	16:07 (24)	17:24	31	16:07 (24)	19:02	19:41	69	19:43 (23)	20:44
16	07:31		15:22 (24)	06:57		15:37 (24)	07:09	06:12		06:03 (12)	05:10
	16:42	46	16:08 (24)	17:26	28	16:05 (24)	19:03	19:42	67	19:44 (23)	20:45
17	07:30		15:22 (24)	06:56		15:40 (24)	07:07	06:10		06:05 (12)	05:10
	16:44	47	16:09 (24)	17:27	23	16:03 (24)	19:05	19:44	62	19:44 (23)	20:45
18	07:30		15:22 (24)	06:54		15:44 (24)	07:05	06:09		18:49 (23)	05:10
	16:45	48	16:10 (24)	17:28	15	15:59 (24)	19:06	19:45	55	19:44 (23)	20:45
19	07:29		15:21 (24)	06:53		17:03	06:07	06:07		18:48 (23)	05:10
	16:46	49	16:10 (24)	17:30		19:07	19:46	19:46	57	19:45 (23)	20:46
20	07:28		15:21 (24)	06:51		17:01	06:05	06:05		18:48 (23)	05:10
	16:48	50	16:11 (24)	17:31		19:08	19:48	19:48	57	19:45 (23)	20:46
21	07:28		15:22 (24)	06:49		17:00	06:03	06:03		18:48 (23)	05:10
	16:49	50	16:12 (24)	17:33		19:10	19:49	19:49	57	19:45 (23)	20:46
22	07:27		15:22 (24)	06:48		17:06	06:02	06:02		18:48 (23)	05:11
	16:50	51	16:13 (24)	17:34		19:11	19:50	19:50	57	19:45 (23)	20:47
23	07:26		15:22 (24)	06:46		17:06	06:00	06:00		18:49 (23)	05:11
	16:52	51	16:13 (24)	17:35		19:12	19:51	19:51	57	19:46 (23)	20:47
24	07:25		15:22 (24)	06:44		17:06	05:59	05:59		18:49 (23)	05:11
	16:53	52	16:14 (24)	17:37		19:14	19:53	19:53	57	19:46 (23)	20:47
25	07:24		15:22 (24)	06:43		17:06	05:57	05:57		18:48 (23)	05:11
	16:54	52	16:14 (24)	17:38		19:15	19:54	19:54	58	19:46 (23)	20:47
26	07:23		15:22 (24)	06:41		17:06	05:55	05:55		18:48 (23)	05:12
	16:56	53	16:15 (24)	17:39		19:16	19:55	19:55	58	19:46 (23)	20:47
27	07:23		15:22 (24)	06:39		17:06	05:54	05:54		18:49 (23)	05:12
	16:57	53	16:15 (24)	17:41		19:17	19:56	19:56	5	06:20 (12)	20:30
28	07:22		15:22 (24)	06:38		17:06	05:52	05:52		18:49 (23)	05:13
	16:58	53	16:15 (24)	17:42		19:19	19:57	19:57	8	06:21 (12)	20:31
29	07:20		15:22 (24)			17:06	05:51	05:51		18:49 (23)	05:13
	17:00	54	16:16 (24)			19:20	19:59	19:59	22	19:24 (23)	20:32
30	07:19		15:23 (24)			17:06	05:49	05:49		18:50 (23)	05:14
	17:01	53	16:16 (24)			19:21	20:00	20:00	33	19:28 (23)	20:33
31	07:18		15:22 (24)			17:06	05:41	05:41		18:49 (23)	
	17:03	53	16:15 (24)			19:22			57	19:46 (23)	
Potential sun hours	286		291		369	404		459		466	
Total, worst case		1373		750		70		1878		1627	
Sun reduction		0.41		0.48		0.49		0.56		0.59	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.79		0.79		0.70		0.65		0.62	
Total reduction		0.33		0.39		0.35		0.37		0.37	
Total, real		456		292		25		696		608	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 148

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 247 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (836)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	18:58 (23)	05:42	06:08 (12)	06:18	06:54		06:34		14:58 (24)	07:14
2	05:15	18:57 (23)	05:43	06:07 (12)	06:19	06:55		06:35		14:56 (24)	07:15
3	05:15	18:58 (23)	05:44	06:07 (12)	06:20	06:56		06:37		14:56 (24)	07:16
4	05:16	18:57 (23)	05:45	06:09 (12)	06:22	06:58		06:38		14:55 (24)	07:17
5	05:16	18:58 (23)	05:46	06:10 (12)	06:23	06:59		06:40		14:55 (24)	07:18
6	05:17	18:58 (23)	05:47	06:11 (12)	06:24	07:00		06:41		14:54 (24)	07:19
7	05:18	18:57 (23)	05:48	06:12 (12)	06:25	07:01		06:42		14:54 (24)	07:20
8	05:18	18:58 (23)	05:50	06:13 (12)	06:26	07:03		06:44		14:54 (24)	07:21
9	05:19	18:58 (23)	05:51	06:14 (12)	06:28	07:04		06:45		14:54 (24)	07:22
10	05:20	18:57 (23)	05:52	06:15 (12)	06:29	07:05		06:46		14:54 (24)	07:23
11	05:21	18:58 (23)	05:53	06:16 (12)	06:30	07:06		06:48		14:54 (24)	07:24
12	05:22	18:58 (23)	05:54	06:17 (12)	06:31	07:08		06:49		14:54 (24)	07:25
13	05:22	18:58 (23)	05:56	06:19 (12)	06:32	07:09		06:50		14:54 (24)	07:26
14	05:23	18:58 (23)	05:57	06:20 (12)	06:33	07:10		06:52		14:54 (24)	07:26
15	05:24	18:58 (23)	05:58	06:21 (12)	06:35	07:11		06:53		14:55 (24)	07:27
16	05:25	18:58 (23)	05:59	06:22 (12)	06:36	07:13		06:55		14:55 (24)	07:28
17	05:26	18:58 (23)	06:00	06:23 (12)	06:37	07:14		06:56		14:55 (24)	07:29
18	05:27	18:58 (23)	06:01	06:25 (12)	06:38	07:15		06:57		14:56 (24)	07:29
19	05:28	18:58 (23)	06:03	06:26 (12)	06:39	07:17		06:59		14:56 (24)	07:30
20	05:29	18:58 (23)	06:04	06:27 (12)	06:41	07:18		07:00		14:57 (24)	07:31
21	05:30	18:58 (23)	06:05	06:28 (12)	06:42	07:19		07:01		14:57 (24)	07:31
22	05:31	18:59 (23)	06:06	06:29 (12)	06:43	07:21		07:02		14:57 (24)	07:32
23	05:32	18:59 (23)	06:07	06:30 (12)	06:44	07:22		07:04		14:58 (24)	07:32
24	05:33	18:59 (23)	06:09	06:31 (12)	06:45	07:23		07:05		14:59 (24)	07:33
25	05:34	18:59 (23)	06:10	06:32 (12)	06:46	07:25		07:06		15:00 (24)	07:33
26	05:35	18:59 (23)	06:11	06:33 (12)	06:47	07:26		07:08		15:01 (24)	07:33
27	05:36	18:59 (23)	06:12	06:34 (12)	06:48	07:27		07:09		15:01 (24)	07:34
28	05:37	18:59 (23)	06:13	06:35 (12)	06:49	07:29		07:10		15:02 (24)	07:34
29	05:38	18:59 (23)	06:14	06:36 (12)	06:50	07:30		07:11		15:03 (24)	07:34
30	05:39	18:59 (23)	06:15	06:37 (12)	06:51	07:31		07:12		15:04 (24)	07:34
31	05:41	18:59 (23)	06:17	06:38 (12)	06:53	07:33		07:14		15:04 (24)	07:35
Potential sun hours	472	436	376	341	288	275					
Total, worst case	1802	788	263	1490	875						
Sun reduction	0.64	0.60	0.47	0.31	0.33						
Oper. time red.	1.00	1.00	1.00	1.00	1.00						
Wind dir. red.	0.63	0.67	0.79	0.79	0.79						
Total reduction	0.41	0.41	0.38	0.25	0.27						
Total, real	739	327	100	374	234						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 149

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 248 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (837)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35		07:17	15:23 (24)	06:36	06:39	05:48			06:09 (12)	05:14
	16:26		17:04	16:22 (24)	17:43	19:24	20:00			06:12 (12)	20:34
2	07:35		07:16	15:24 (24)	06:34	06:37	05:46			06:07 (12)	05:14
	16:27		17:06	16:23 (24)	17:45	19:25	20:01			06:13 (12)	20:35
3	07:35		07:15	15:24 (24)	06:32	06:35	05:45			06:06 (12)	05:13
	16:28		17:07	16:24 (24)	17:46	19:26	20:02			06:14 (12)	20:36
4	07:35		07:14	15:23 (24)	06:31	06:34	05:43			06:04 (12)	05:13
	16:29		17:08	16:23 (24)	17:48	19:27	20:04			06:14 (12)	20:37
5	07:35	15:43 (24)	07:12	15:23 (24)	06:29	06:32	05:42			06:03 (12)	05:12
	16:30	3	15:46 (24)	16:24 (24)	17:49	19:29	20:05			06:14 (12)	20:38
6	07:35	15:39 (24)	07:11	15:24 (24)	06:27	06:30	05:40			06:02 (12)	05:12
	16:31	12	15:51 (24)	16:24 (24)	17:50	19:30	20:06			06:15 (12)	20:39
7	07:34	15:38 (24)	07:10	15:24 (24)	06:25	06:28	05:39			06:01 (12)	05:12
	16:32	16	15:54 (24)	16:25 (24)	17:52	19:31	20:07			06:16 (12)	20:39
8	07:34	15:36 (24)	07:09	15:24 (24)	07:24	06:26	05:38			05:59 (12)	05:11
	16:33	19	15:55 (24)	16:24 (24)	18:53	19:32	20:09			06:15 (12)	20:40
9	07:34	15:35 (24)	07:07	15:25 (24)	07:22	06:24	05:36			05:58 (12)	05:11
	16:34	23	15:58 (24)	16:24 (24)	18:54	19:34	20:10			06:15 (12)	20:41
10	07:34	15:34 (24)	07:06	15:24 (24)	07:20	06:23	05:35			05:57 (12)	05:11
	16:35	26	16:00 (24)	16:24 (24)	18:55	19:35	20:11			06:15 (12)	20:41
11	07:33	15:33 (24)	07:04	15:25 (24)	07:18	06:21	05:34			05:56 (12)	05:10
	16:36	28	16:01 (24)	16:24 (24)	18:57	19:36	20:12			06:15 (12)	20:42
12	07:33	15:32 (24)	07:03	15:25 (24)	07:16	06:19	05:33			05:54 (12)	05:10
	16:37	31	16:03 (24)	16:23 (24)	18:58	19:37	20:13			06:14 (12)	20:43
13	07:33	15:31 (24)	07:02	15:26 (24)	07:14	06:17	05:31			05:53 (12)	05:10
	16:39	33	16:04 (24)	16:23 (24)	18:59	19:39	20:15			06:14 (12)	20:43
14	07:32	15:31 (24)	07:00	15:26 (24)	07:13	06:15	05:30			05:52 (12)	05:10
	16:40	35	16:06 (24)	16:22 (24)	19:01	19:40	20:16			06:14 (12)	20:44
15	07:32	15:30 (24)	06:59	15:27 (24)	07:11	06:14	05:29			05:51 (12)	05:10
	16:41	37	16:07 (24)	16:22 (24)	19:02	19:41	20:17			06:13 (12)	20:44
16	07:31	15:29 (24)	06:57	15:27 (24)	07:09	06:12	05:28			05:51 (12)	05:10
	16:42	39	16:08 (24)	16:21 (24)	19:03	19:42	20:18			06:13 (12)	20:45
17	07:30	15:29 (24)	06:56	15:29 (24)	07:07	06:10	05:27			05:52 (12)	05:10
	16:44	41	16:10 (24)	16:21 (24)	19:05	19:44	20:19			06:12 (12)	20:45
18	07:30	15:28 (24)	06:54	15:29 (24)	07:05	06:09	05:26			05:53 (12)	05:10
	16:45	43	16:11 (24)	16:20 (24)	19:06	19:45	20:20			06:11 (12)	20:45
19	07:29	15:27 (24)	06:53	15:31 (24)	07:03	06:07	05:25			05:54 (12)	05:10
	16:46	45	16:12 (24)	16:19 (24)	19:07	19:46	20:21			06:10 (12)	20:46
20	07:28	15:27 (24)	06:51	15:32 (24)	07:01	06:05	05:24			05:55 (12)	05:10
	16:48	46	16:13 (24)	16:18 (24)	19:08	19:48	20:22			19:46 (23)	20:46
21	07:28	15:27 (24)	06:49	15:33 (24)	07:00	06:03	05:23			05:57 (12)	05:10
	16:49	48	16:15 (24)	16:16 (24)	19:10	19:49	20:24			19:49 (23)	20:46
22	07:27	15:26 (24)	06:48	15:35 (24)	06:58	06:02	05:22			05:59 (12)	05:11
	16:50	50	16:16 (24)	16:15 (24)	19:11	19:50	20:25			19:51 (23)	20:47
23	07:26	15:26 (24)	06:46	15:36 (24)	06:56	06:00	05:21			19:27 (23)	05:11
	16:52	50	16:16 (24)	16:13 (24)	19:12	19:51	20:26			19:54 (23)	20:47
24	07:25	15:26 (24)	06:44	15:38 (24)	06:54	05:59	05:20			19:25 (23)	05:11
	16:53	51	16:17 (24)	16:11 (24)	19:14	19:53	20:27			19:55 (23)	20:47
25	07:24	15:25 (24)	06:43	15:41 (24)	06:52	05:57	05:19			19:24 (23)	05:11
	16:54	53	16:18 (24)	16:09 (24)	19:15	19:54	20:28			19:57 (23)	20:47
26	07:23	15:25 (24)	06:41	15:44 (24)	06:50	05:55	05:18			19:22 (23)	05:12
	16:56	54	16:19 (24)	16:06 (24)	19:16	19:55	20:29			19:58 (23)	20:47
27	07:23	15:25 (24)	06:39	15:49 (24)	06:48	05:54	05:18			19:22 (23)	05:12
	16:57	55	16:20 (24)	16:01 (24)	19:17	19:56	20:30			19:59 (23)	20:47
28	07:22	15:24 (24)	06:38		06:46	05:52	05:17			19:21 (23)	05:13
	16:58	56	16:20 (24)	17:42	19:19	19:57	20:31			20:00 (23)	20:47
29	07:20	15:24 (24)			06:45	05:51	05:16			19:20 (23)	05:13
	17:00	57	16:21 (24)		19:20	19:59	20:32			20:01 (23)	20:47
30	07:19	15:24 (24)			06:43	05:49	05:15			19:20 (23)	05:14
	17:01	58	16:22 (24)		19:21	20:00	20:33			20:02 (23)	20:47
31	07:18	15:23 (24)			06:41		05:15			19:19 (23)	
	17:03	59	16:22 (24)		19:22		20:34			20:02 (23)	
Potential sun hours	286		291		369		404			459	
Total, worst case		1068		1350					709		1554
Sun reduction		0.41		0.48					0.56		0.59
Oper. time red.		1.00		1.00					1.00		1.00
Wind dir. red.		0.79		0.79					0.67		0.58
Total reduction		0.33		0.39					0.39		0.35
Total, real		356		526					274		542

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 150

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 248 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (837)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	19:21 (23)	05:42	20	06:05 (12)	06:18	06:54	59	16:46	14:54 (24)	07:14
2	05:15	19:21 (23)	05:43	19	06:06 (12)	06:19	06:55	60	16:45	14:53 (24)	07:15
3	05:15	19:22 (23)	05:44	18	06:07 (12)	06:20	06:56	60	16:44	14:54 (24)	07:16
4	05:16	19:22 (23)	05:45	17	06:09 (12)	06:22	06:58	60	16:43	14:53 (24)	07:17
5	05:16	19:23 (23)	05:46	15	06:10 (12)	06:23	06:59	60	16:41	14:54 (24)	07:18
6	05:17	19:24 (23)	05:47	14	06:11 (12)	06:24	07:00	60	16:40	14:53 (24)	07:19
7	05:18	19:23 (23)	05:49	13	06:12 (12)	06:25	07:01	60	16:42	14:54 (24)	07:20
8	05:18	19:24 (23)	05:50	11	06:13 (12)	06:26	07:03	60	16:38	14:54 (24)	07:21
9	05:19	19:25 (23)	05:51	9	06:14 (12)	06:28	07:04	59	16:37	14:53 (24)	07:22
10	05:20	19:25 (23)	05:52	7	06:15 (12)	06:29	07:05	60	16:36	14:54 (24)	07:23
11	05:21	19:26 (23)	05:53	5	06:16 (12)	06:30	07:06	59	16:35	14:55 (24)	07:24
12	05:22	19:27 (23)	05:54	2	06:17 (12)	06:31	07:08	58	16:33	14:56 (24)	07:25
13	05:22	19:28 (23)	05:56		06:19 (12)	06:32	07:09	58	16:32	14:56 (24)	07:26
14	05:23	19:29 (23)	05:57			06:33	07:10	57	16:31	14:56 (24)	07:26
15	05:24	19:30 (23)	05:58			06:35	07:11	56	16:30	14:57 (24)	07:27
16	05:25	19:30 (23)	05:59			06:36	07:13	55	16:29	14:58 (24)	07:28
17	05:26	19:31 (23)	06:00			06:37	07:14	54	16:28	14:58 (24)	07:29
18	05:27	19:32 (23)	06:01			06:38	07:15	53	16:27	14:59 (24)	07:29
19	05:28	19:33 (23)	06:03			06:39	07:17	51	16:26	15:00 (24)	07:30
20	05:29	19:34 (23)	06:04			06:41	07:18	50	16:25	15:01 (24)	07:31
21	05:30	19:35 (23)	06:05			06:42	07:19	49	16:24	15:02 (24)	07:31
22	05:31	19:36 (23)	06:06			06:43	07:21	48	16:23	15:03 (24)	07:32
23	05:32	19:37 (23)	06:07			06:44	07:22	47	16:22	15:04 (24)	07:32
24	05:33	19:38 (23)	06:09			06:45	07:23	46	16:21	15:05 (24)	07:33
25	05:34	19:39 (23)	06:10			06:46	07:24	45	16:20	15:06 (24)	07:33
26	05:35	19:40 (23)	06:11			06:47	07:25	44	16:19	15:07 (24)	07:33
27	05:36	19:41 (23)	06:12			06:48	07:26	43	16:18	15:08 (24)	07:33
28	05:37	19:42 (23)	06:13			06:49	07:27	42	16:17	15:09 (24)	07:34
29	05:38	19:43 (23)	06:14			06:50	07:28	41	16:16	15:10 (24)	07:34
30	05:39	19:44 (23)	06:15			06:51	07:29	40	16:15	15:11 (24)	07:34
31	05:41	19:45 (23)	06:17			06:53	07:31	39	16:14	15:12 (24)	07:34
Potential sun hours	472	436		376	341			288		275	
Total, worst case	1128	150		768				1537		129	
Sun reduction	0.64	0.60		0.47				0.31		0.33	
Oper. time red.	1.00	1.00		1.00				1.00		1.00	
Wind dir. red.	0.61	0.78		0.79				0.79		0.79	
Total reduction	0.40	0.48		0.38				0.25		0.27	
Total, real	451	72		293				387		35	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 249 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (838)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:17 (24)	07:17	15:12 (24)	06:36	06:39		05:48		06:09 (12)	05:14
	16:26	32	15:49 (24)	17:04	63	16:15 (24)	17:43	19:24		20:00	7
2	07:35		15:16 (24)	07:16		15:12 (24)	06:34	06:37		05:46	
	16:27	34	15:50 (24)	17:06	63	16:15 (24)	17:45	19:25		20:01	9
3	07:35		15:16 (24)	07:15		15:13 (24)	06:32	06:35		05:45	
	16:28	35	15:51 (24)	17:07	63	16:16 (24)	17:46	19:26		20:02	11
4	07:35		15:16 (24)	07:14		15:12 (24)	06:31	06:34		05:43	
	16:29	36	15:52 (24)	17:08	63	16:15 (24)	17:48	19:27		20:04	13
5	07:35		15:16 (24)	07:12		15:13 (24)	06:29	06:32		05:42	
	16:30	37	15:53 (24)	17:10	62	16:15 (24)	17:49	19:29		20:05	14
6	07:35		15:16 (24)	07:11		15:14 (24)	06:27	06:30		05:40	
	16:31	39	15:55 (24)	17:11	62	16:16 (24)	17:50	19:30		20:06	15
7	07:34		15:16 (24)	07:10		15:14 (24)	06:25	06:28		05:39	
	16:32	40	15:56 (24)	17:13	62	16:16 (24)	17:52	19:31		20:07	17
8	07:34		15:15 (24)	07:09		15:14 (24)	07:24	06:26		05:38	
	16:33	42	15:57 (24)	17:14	61	16:15 (24)	18:53	19:32		20:09	18
9	07:34		15:15 (24)	07:07		15:15 (24)	07:22	06:24		05:36	
	16:34	43	15:58 (24)	17:16	60	16:15 (24)	18:54	19:34		20:10	19
10	07:34		15:15 (24)	07:06		15:15 (24)	07:20	06:23		05:35	
	16:35	44	15:59 (24)	17:17	59	16:14 (24)	18:55	19:35		20:11	20
11	07:33		15:15 (24)	07:04		15:16 (24)	07:18	06:21		05:34	
	16:36	45	16:00 (24)	17:18	58	16:14 (24)	18:57	19:36		20:12	20
12	07:33		15:15 (24)	07:03		15:16 (24)	07:16	06:19		05:33	
	16:37	46	16:01 (24)	17:20	57	16:13 (24)	18:58	19:37		20:13	21
13	07:33		15:14 (24)	07:02		15:17 (24)	07:14	06:17		05:31	
	16:39	48	16:02 (24)	17:21	56	16:13 (24)	18:59	19:39		20:15	22
14	07:32		15:14 (24)	07:00		15:18 (24)	07:13	06:15		05:30	
	16:40	50	16:04 (24)	17:23	54	16:12 (24)	19:01	19:40		20:16	20
15	07:32		15:14 (24)	06:59		15:19 (24)	07:11	06:14		05:29	
	16:41	50	16:04 (24)	17:24	53	16:12 (24)	19:02	19:41		20:17	18
16	07:31		15:13 (24)	06:57		15:20 (24)	07:09	06:12		05:28	
	16:42	52	16:05 (24)	17:26	50	16:10 (24)	19:03	19:42		20:18	16
17	07:30		15:14 (24)	06:56		15:22 (24)	07:07	06:10		05:27	
	16:44	52	16:06 (24)	17:27	48	16:10 (24)	19:05	19:44		20:19	14
18	07:30		15:13 (24)	06:54		15:23 (24)	07:05	06:09		05:26	
	16:45	54	16:07 (24)	17:28	45	16:08 (24)	19:06	19:45		20:20	10
19	07:29		15:13 (24)	06:53		15:25 (24)	07:03	06:07		05:25	
	16:46	54	16:07 (24)	17:30	42	16:07 (24)	19:07	19:46		20:21	4
20	07:28		15:12 (24)	06:51		15:26 (24)	07:01	06:05		05:24	
	16:48	56	16:08 (24)	17:31	39	16:05 (24)	19:08	19:48		20:22	
21	07:28		15:13 (24)	06:49		15:28 (24)	07:00	06:03		05:23	
	16:49	57	16:10 (24)	17:33	35	16:03 (24)	19:10	19:49		20:24	
22	07:27		15:13 (24)	06:48		15:31 (24)	06:58	06:02		05:22	
	16:50	57	16:10 (24)	17:34	31	16:02 (24)	19:11	19:50		20:25	9
23	07:26		15:13 (24)	06:46		15:33 (24)	06:56	06:00		05:21	
	16:52	58	16:11 (24)	17:35	26	15:59 (24)	19:12	19:51		20:26	17
24	07:25		15:12 (24)	06:44		15:37 (24)	06:54	05:59		05:20	
	16:53	59	16:11 (24)	17:37	17	15:54 (24)	19:14	19:53		20:27	22
25	07:24		15:12 (24)	06:43			06:52	05:57		05:19	
	16:54	60	16:12 (24)	17:38			19:15	19:54		20:28	26
26	07:23		15:12 (24)	06:41			06:50	05:55		05:18	
	16:56	61	16:13 (24)	17:39			19:16	19:55		20:29	30
27	07:23		15:12 (24)	06:39			06:48	05:54		05:18	
	16:57	61	16:13 (24)	17:41			19:17	19:56		20:30	32
28	07:22		15:12 (24)	06:38			06:46	05:52		05:17	
	16:58	62	16:14 (24)	17:42			19:19	19:57		20:31	35
29	07:20		15:12 (24)				06:45	05:51		05:16	
	17:00	62	16:14 (24)				19:20	19:59	2	06:14 (12)	05:16
30	07:19		15:13 (24)				06:43	05:49		05:15	
	17:01	62	16:15 (24)				19:21	20:00	5	06:15 (12)	05:15
31	07:18		15:12 (24)				06:41			05:15	
	17:03	62	16:14 (24)				19:22			20:34	40
Potential sun hours	286		291		369	404		459			466
Total, worst case	1550		1229			7		573			1522
Sun reduction	0.41		0.48			0.49		0.56			0.59
Oper. time red.	1.00		1.00			1.00		1.00			1.00
Wind dir. red.	0.79		0.79			0.78		0.68			0.57
Total reduction	0.33		0.39			0.39		0.39			0.35
Total, real	516		479			3		223			528

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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EDR

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 249 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (838)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	19:22 (23)	05:42	06:05 (12)	06:18	06:54		06:34		14:45 (24)	07:14
	20:47	51	20:13 (23)	20:25	21	06:26 (12)	19:35	18:39		16:46	59
2	05:15		19:22 (23)	05:43		06:06 (12)	06:19	06:55		16:35	
	20:47	50	20:12 (23)	20:24	20	06:26 (12)	19:33	18:37		16:45	60
3	05:15		19:23 (23)	05:44		06:07 (12)	06:20	06:56		16:37	
	20:47	50	20:13 (23)	20:23	19	06:26 (12)	19:32	18:35		16:44	61
4	05:16		19:23 (23)	05:45		06:09 (12)	06:22	06:58		16:38	
	20:46	49	20:12 (23)	20:20	18	06:27 (12)	19:30	18:33		16:42	62
5	05:16		19:24 (23)	05:46		06:10 (12)	06:23	06:59		16:40	
	20:46	48	20:12 (23)	20:20	17	06:27 (12)	19:28	18:31		16:41	62
6	05:17		19:24 (23)	05:47		06:11 (12)	06:24	07:00		16:41	
	20:46	48	20:12 (23)	20:19	16	06:27 (12)	19:26	18:30		16:40	62
7	05:18		19:24 (23)	05:49		06:12 (12)	06:25	07:01		16:42	
	20:46	47	20:11 (23)	20:17	15	06:27 (12)	19:24	18:28		16:38	63
8	05:18		19:25 (23)	05:50		06:13 (12)	06:26	07:03		16:44	
	20:45	46	20:11 (23)	20:16	14	06:27 (12)	19:22	18:26		16:37	62
9	05:19		19:26 (23)	05:51		06:14 (12)	06:28	07:04		16:45	
	20:45	45	20:11 (23)	20:15	12	06:26 (12)	19:20	18:24		16:36	63
10	05:20		19:26 (23)	05:52		06:15 (12)	06:29	07:05		16:46	
	20:44	44	20:10 (23)	20:13	10	06:25 (12)	19:19	18:22		16:35	63
11	05:21		19:27 (23)	05:53		06:16 (12)	06:30	07:06		16:48	
	20:44	43	20:10 (23)	20:12	8	06:24 (12)	19:17	18:20		16:33	62
12	05:22		19:28 (23)	05:54		06:17 (12)	06:31	07:08		16:49	
	20:43	41	20:09 (23)	20:10	6	06:23 (12)	19:15	18:19		16:32	63
13	05:22		19:30 (23)	05:56		06:19 (12)	06:32	07:09		16:50	
	20:43	39	20:09 (23)	20:09	4	06:23 (12)	19:13	18:17		16:31	62
14	05:23		19:31 (23)	05:57		06:20 (12)	06:33	07:10		16:52	
	20:42	37	20:08 (23)	20:07	1	06:21 (12)	19:11	18:15		16:30	62
15	05:24		19:32 (23)	05:58		06:35	07:11			16:53	
	20:41	36	20:08 (23)	20:06		19:09	18:13			16:29	61
16	05:25		19:32 (23)	05:59		06:36	07:13			16:55	
	20:41	34	20:06 (23)	20:04		19:07	18:12			16:28	61
17	05:26		19:34 (23)	06:00		06:37	07:14			16:56	
	20:40	31	20:05 (23)	20:03		19:05	18:10	9	16:22 (24)	16:27	60
18	05:27		19:36 (23)	06:01		06:38	07:15			16:57	
	20:39	27	20:03 (23)	20:01		19:03	18:08	20	16:27 (24)	16:26	59
19	05:28		19:38 (23)	06:03		06:39	07:17			16:59	
	20:39	24	20:02 (23)	19:58		19:01	18:07	27	16:31 (24)	16:25	58
20	05:29		19:40 (23)	06:04		06:41	07:18			17:00	
	20:38	20	20:00 (23)	19:56		19:00	18:05	33	16:33 (24)	16:24	57
21	05:30		19:43 (23)	06:05		06:42	07:19			17:01	
	20:37	14	19:57 (23)	19:54		18:58	18:03	36	16:34 (24)	16:24	57
22	05:31		06:06			06:43	07:21			17:02	
	20:36		19:53			18:56	18:02	40	16:36 (24)	16:23	56
23	05:32		06:07			06:44	07:22			17:04	
	20:35		19:51			18:54	18:00	43	16:37 (24)	16:22	55
24	05:33		06:09			06:45	07:23			17:05	
	20:34		19:49			18:52	17:58	46	16:39 (24)	16:21	54
25	05:34		06:11 (12)	06:10		06:47	07:25			17:06	
	20:33	7	06:18 (12)	19:48		18:50	17:57	49	16:40 (24)	16:21	52
26	05:35		06:09 (12)	06:11		06:48	07:26			17:08	
	20:32	12	06:21 (12)	19:46		18:48	17:55	51	16:40 (24)	16:20	52
27	05:36		06:07 (12)	06:12		06:49	07:27			17:09	
	20:31	15	06:22 (12)	19:44		18:46	17:54	53	16:42 (24)	16:19	50
28	05:37		06:06 (12)	06:13		06:50	07:29			17:10	
	20:30	17	06:23 (12)	19:42		18:44	17:52	55	16:42 (24)	16:19	50
29	05:38		06:05 (12)	06:14		06:51	07:30			17:11	
	20:29	19	06:24 (12)	19:41		18:43	17:51	56	16:43 (24)	16:18	48
30	05:39		06:04 (12)	06:16		06:53	07:31			17:12	
	20:28	21	06:25 (12)	19:39		18:41	17:49	57	16:43 (24)	16:18	47
31	05:41		06:04 (12)	06:17			07:33			17:13	
	20:26	21	06:25 (12)	19:37			17:48	58	16:44 (24)		
Potential sun hours	472		436			376	341		288		275
Total, worst case		936		181			633		1743		974
Sun reduction	0.64		0.60				0.47		0.31		0.33
Oper. time red.	1.00		1.00				1.00		1.00		1.00
Wind dir. red.	0.60		0.78				0.79		0.79		0.79
Total reduction	0.39		0.48				0.38		0.25		0.27
Total, real	368		87				242		439		261

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 153

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 250 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (839)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:39 (24)	07:17	15:31 (24)	06:36	06:39		05:48		06:09 (12)	05:14
	16:26	12	15:51 (24)	17:04	16:21 (24)	17:43	19:24	20:00	54	19:34 (23)	20:34
2	07:35		15:38 (24)	07:16	15:31 (24)	06:34	06:37	05:46		06:07 (12)	05:14
	16:27	15	15:53 (24)	17:06	16:21 (24)	17:45	19:25	20:01	57	19:34 (23)	20:35
3	07:35		15:37 (24)	07:15	15:32 (24)	06:32	06:35	05:45		06:06 (12)	05:13
	16:28	18	15:55 (24)	17:07	16:21 (24)	17:46	19:26	20:02	61	19:35 (23)	20:36
4	07:35		15:37 (24)	07:14	15:31 (24)	06:31	06:33	05:43		06:04 (12)	05:13
	16:29	19	15:56 (24)	17:08	16:21 (24)	17:48	19:27	20:04	63	19:35 (23)	20:37
5	07:35		15:36 (24)	07:12	15:32 (24)	06:29	06:32	05:42		06:03 (12)	05:12
	16:30	22	15:58 (24)	17:10	16:21 (24)	17:49	19:29	20:05	67	19:36 (23)	20:38
6	07:35		15:36 (24)	07:11	15:33 (24)	06:27	06:30	05:40		06:02 (12)	05:12
	16:31	24	16:00 (24)	17:11	16:21 (24)	17:50	19:30	20:06	69	19:37 (23)	20:39
7	07:34		15:36 (24)	07:10	15:33 (24)	06:25	06:28	05:39		06:01 (12)	05:12
	16:32	25	16:01 (24)	17:13	16:20 (24)	17:52	19:31	20:07	71	19:38 (23)	20:39
8	07:34		15:34 (24)	07:09	15:34 (24)	07:24	06:26	05:38		05:59 (12)	05:11
	16:33	28	16:02 (24)	17:14	16:20 (24)	18:53	19:32	20:09	74	19:38 (23)	20:40
9	07:34		15:34 (24)	07:07	15:35 (24)	07:22	06:24	05:36		05:58 (12)	05:11
	16:34	30	16:04 (24)	17:16	16:20 (24)	18:54	19:34	20:10	75	19:38 (23)	20:41
10	07:34		15:34 (24)	07:06	15:35 (24)	07:20	06:23	05:35		05:57 (12)	05:11
	16:35	31	16:05 (24)	17:17	16:19 (24)	18:55	19:35	20:11	77	19:39 (23)	20:41
11	07:33		15:33 (24)	07:04	15:36 (24)	07:18	06:21	05:34		05:56 (12)	05:10
	16:36	33	16:06 (24)	17:18	16:18 (24)	18:57	19:36	20:12	78	19:39 (23)	20:42
12	07:33		15:33 (24)	07:03	15:37 (24)	07:16	06:19	05:33		05:56 (12)	05:10
	16:37	34	16:07 (24)	17:20	16:17 (24)	18:58	19:37	20:13	76	19:38 (23)	20:43
13	07:33		15:33 (24)	07:02	15:39 (24)	07:14	06:17	05:31		05:57 (12)	05:10
	16:39	35	16:08 (24)	17:21	16:16 (24)	18:59	19:39	20:15	76	19:39 (23)	20:43
14	07:32		15:33 (24)	07:00	15:40 (24)	07:13	06:15	05:30		05:57 (12)	05:10
	16:40	37	16:10 (24)	17:23	16:15 (24)	19:01	19:40	20:16	75	19:39 (23)	20:44
15	07:32		15:32 (24)	06:59	15:42 (24)	07:11	06:14	05:29		05:58 (12)	05:10
	16:41	38	16:10 (24)	17:24	16:14 (24)	19:02	19:41	20:17	73	19:39 (23)	20:44
16	07:31		15:31 (24)	06:57	15:43 (24)	07:09	06:12	05:28		06:00 (12)	05:10
	16:42	40	16:11 (24)	17:26	16:12 (24)	19:03	19:42	20:18	70	19:39 (23)	20:45
17	07:30		15:32 (24)	06:56	15:46 (24)	07:07	06:10	05:27		06:01 (12)	05:10
	16:44	41	16:13 (24)	17:27	16:10 (24)	19:05	19:44	20:19	68	19:39 (23)	20:45
18	07:30		15:31 (24)	06:54	15:49 (24)	07:05	06:09	05:26		06:03 (12)	05:10
	16:45	42	16:13 (24)	17:28	16:06 (24)	19:06	19:45	20:20	64	19:39 (23)	20:45
19	07:29		15:31 (24)	06:53	15:55 (24)	07:03	06:07	05:25		06:06 (12)	05:10
	16:46	43	16:14 (24)	17:30	16:01 (24)	19:07	19:46	20:21	58	19:39 (23)	20:46
20	07:28		15:30 (24)	06:51		07:01	06:05	05:24		18:46 (23)	05:10
	16:48	45	16:15 (24)	17:31		19:08	19:47	20:22	53	19:39 (23)	20:46
21	07:28		15:31 (24)	06:49		07:00	06:03	05:23		18:46 (23)	05:10
	16:49	45	16:16 (24)	17:33		19:10	19:49	20:24	53	19:39 (23)	20:46
22	07:27		15:31 (24)	06:48		06:58	06:02	05:22		18:46 (23)	05:11
	16:50	46	16:17 (24)	17:34		19:11	19:50	20:25	53	19:39 (23)	20:47
23	07:26		15:31 (24)	06:46		06:56	06:00	05:21		18:47 (23)	05:11
	16:52	46	16:17 (24)	17:35		19:12	19:51	20:26	53	19:40 (23)	20:47
24	07:25		15:30 (24)	06:44		06:54	05:59	05:20		18:47 (23)	05:11
	16:53	48	16:18 (24)	17:37		19:14	19:53	20:27	52	19:39 (23)	20:47
25	07:24		15:30 (24)	06:43		06:52	05:57	05:19		18:48 (23)	05:11
	16:54	49	16:19 (24)	17:38		19:15	19:54	20:28	51	19:39 (23)	20:47
26	07:23		15:30 (24)	06:41		06:50	05:55	06:16 (12)		18:48 (23)	05:12
	16:56	49	16:19 (24)	17:39		19:16	19:55	20:29	51	19:39 (23)	20:47
27	07:23		15:30 (24)	06:39		06:48	05:54	06:15 (12)		18:49 (23)	05:12
	16:57	50	16:20 (24)	17:41		19:17	19:56	20:30	50	19:39 (23)	20:47
28	07:22		15:30 (24)	06:38		06:46	05:52	06:13 (12)		18:49 (23)	05:13
	16:58	50	16:20 (24)	17:42		19:19	19:57	20:31	50	19:39 (23)	20:47
29	07:20		15:31 (24)			06:45	05:51	06:12 (12)		18:49 (23)	05:13
	17:00	50	16:21 (24)			19:20	19:59	20:32	49	19:38 (23)	20:47
30	07:19		15:31 (24)			06:43	05:49	06:10 (12)		18:50 (23)	05:14
	17:01	50	16:21 (24)			19:21	20:00	20:33	49	19:39 (23)	20:47
31	07:18		15:30 (24)			06:41		05:15		18:50 (23)	
	17:03	50	16:20 (24)			19:22		20:34	48	19:38 (23)	
Potential sun hours	286		291		369	404		459		466	
Total, worst case		1145		740		202		1918		1251	
Sun reduction		0.41		0.48		0.49		0.56		0.59	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.79		0.79		0.65		0.66		0.63	
Total reduction		0.33		0.39		0.33		0.37		0.38	
Total, real		379		287		66		719		472	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

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Licensed user:

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 250 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (839)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September/October		November		December	
1	05:14	19:00 (23)	05:42	06:06 (12)	06:18	06:54	06:34	15:05 (24)	07:14
2	05:15	18:59 (23)	05:43	06:06 (12)	06:19	06:55	06:35	15:03 (24)	07:15
3	05:15	19:00 (23)	05:44	06:07 (12)	06:20	06:56	06:37	15:03 (24)	07:16
4	05:16	18:59 (23)	05:45	06:09 (12)	06:22	06:58	06:38	15:02 (24)	07:17
5	05:16	18:59 (23)	05:46	06:10 (12)	06:23	06:59	06:40	15:02 (24)	07:18
6	05:17	19:00 (23)	05:47	06:11 (12)	06:24	07:00	06:41	15:02 (24)	07:19
7	05:18	18:59 (23)	05:48	06:12 (12)	06:25	07:01	06:42	15:02 (24)	07:20
8	05:18	18:59 (23)	05:50	06:13 (12)	06:26	07:03	06:44	15:01 (24)	07:21
9	05:19	18:59 (23)	05:51	06:14 (12)	06:28	07:04	06:45	15:02 (24)	07:22
10	05:20	18:58 (23)	05:52	06:15 (12)	06:29	07:05	06:46	15:01 (24)	07:23
11	05:21	18:58 (23)	05:53	06:16 (12)	06:30	07:06	06:48	15:02 (24)	07:24
12	05:22	18:58 (23)	05:54	06:17 (12)	06:31	07:08	06:49	15:02 (24)	07:25
13	05:22	18:58 (23)	05:56	06:19 (12)	06:32	07:09	06:50	15:02 (24)	07:26
14	05:23	18:57 (23)	05:57	06:20 (12)	06:33	07:10	06:52	15:02 (24)	07:26
15	05:24	18:58 (23)	05:58	06:21 (12)	06:35	07:11	06:53	15:03 (24)	07:27
16	05:25	18:57 (23)	05:59	06:22 (12)	06:36	07:13	06:55	15:03 (24)	07:28
17	05:26	18:57 (23)	06:00	06:23 (12)	06:37	07:14	06:56	15:03 (24)	07:29
18	05:27	18:57 (23)	06:01	06:24 (12)	06:38	07:15	06:57	15:04 (24)	07:29
19	05:28	18:57 (23)	06:03	06:25 (12)	06:39	07:17	06:59	15:05 (24)	07:30
20	05:29	18:57 (23)	06:04	06:26 (12)	06:41	07:18	07:00	15:06 (24)	07:31
21	05:30	18:57 (23)	06:05	06:27 (12)	06:42	07:19	07:01	15:06 (24)	07:31
22	05:31	18:57 (23)	06:06	06:28 (12)	06:43	07:21	07:02	15:06 (24)	07:32
23	05:32	18:57 (23)	06:07	06:29 (12)	06:44	07:22	16:22 (24)	15:08 (24)	07:32
24	05:33	18:57 (23)	06:09	06:30 (12)	06:45	07:23	16:18 (24)	15:08 (24)	07:33
25	05:34	18:57 (23)	06:10	06:31 (12)	06:46	07:24	16:15 (24)	15:10 (24)	07:33
26	05:35	18:57 (23)	06:11	06:32 (12)	06:47	07:25	16:12 (24)	15:10 (24)	07:33
27	05:36	18:57 (23)	06:12	06:33 (12)	06:48	07:26	16:12 (24)	15:10 (24)	07:33
28	05:37	18:57 (23)	06:13	06:34 (12)	06:49	07:27	16:11 (24)	15:11 (24)	07:34
29	05:38	18:57 (23)	06:14	06:35 (12)	06:50	07:29	16:09 (24)	15:12 (24)	07:34
30	05:39	18:57 (23)	06:15	06:36 (12)	06:51	07:30	16:08 (24)	15:14 (24)	07:34
31	05:41	18:57 (23)	06:17	06:37 (12)	06:53	07:31	16:06 (24)	15:14 (24)	07:34
Potential sun hours	472	436	376	341	276	1374	288	275	288
Total, worst case	1648	1012	768	688	544	2752	1152	1056	1152
Sun reduction	0.64	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.64	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Total reduction	0.42	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Total, real	687	415	456	400	328	1680	704	640	704

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 155

Licensed user:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 251 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (840)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35		07:17	16:15 (Alt 5)	06:36		07:17 (Alt 9)	06:39	05:48		05:14	19:34 (36)
	16:26		17:04	23	16:38 (Alt 5)	17:44	62	08:19 (Alt 9)	19:24	20:00	20:35	26
2	07:35		07:16		16:16 (Alt 5)	06:34		07:16 (Alt 9)	06:37	05:46	05:14	19:34 (36)
	16:27		17:06	24	16:40 (Alt 5)	17:45	63	08:19 (Alt 9)	19:25	20:01	20:35	25
3	07:35		07:15		16:17 (Alt 5)	06:33		07:16 (Alt 9)	06:35	05:45	05:13	19:35 (36)
	16:28		17:07	24	16:41 (Alt 5)	17:46	63	08:19 (Alt 9)	19:26	20:03	20:36	24
4	07:35		07:14		16:18 (Alt 5)	06:31		07:15 (Alt 9)	06:34	05:43	05:13	19:36 (36)
	16:29		17:09	22	16:40 (Alt 5)	17:48	63	08:18 (Alt 9)	19:28	20:04	20:37	23
5	07:35		07:13		16:18 (Alt 5)	06:29		07:16 (Alt 9)	06:32	05:42	05:12	19:36 (36)
	16:30		17:10	21	16:39 (Alt 5)	17:49	63	08:19 (Alt 9)	19:29	20:05	20:38	22
6	07:35		07:11		16:20 (Alt 5)	06:27		07:15 (Alt 9)	06:30	05:41	05:12	19:37 (36)
	16:31		17:11	18	16:38 (Alt 5)	17:50	63	08:18 (Alt 9)	19:30	20:06	20:39	21
7	07:35		07:10		16:21 (Alt 5)	06:25		07:15 (Alt 9)	06:28	05:39	05:12	19:37 (36)
	16:32		17:13	17	16:38 (Alt 5)	17:52	63	08:18 (Alt 9)	19:31	20:07	5	19:44 (36)
8	07:34		07:09		16:23 (Alt 5)	07:24		08:14 (Alt 9)	06:26	05:38	19:37 (36)	05:11
	16:33		17:14	12	16:35 (Alt 5)	18:53	63	09:17 (Alt 9)	19:33	20:09	7	19:44 (36)
9	07:34		07:07		16:26 (Alt 5)	07:22		08:14 (Alt 9)	06:25	05:37	19:35 (36)	05:11
	16:34		17:16	7	16:33 (Alt 5)	18:54	63	09:17 (Alt 9)	19:34	20:10	11	19:46 (36)
10	07:34		07:06			07:20		08:14 (Alt 9)	06:23	05:35	19:34 (36)	05:11
	16:35		17:17			18:56	62	09:16 (Alt 9)	19:35	20:11	13	19:47 (36)
11	07:33		07:05			07:18		08:15 (Alt 9)	06:21	05:34	19:33 (36)	05:11
	16:36		17:19			18:57	61	09:16 (Alt 9)	19:36	20:12	15	19:48 (36)
12	07:33		07:03			07:16		08:15 (Alt 9)	06:19	05:33	19:33 (36)	05:10
	16:38		17:20			18:58	60	09:15 (Alt 9)	19:38	20:13	16	19:49 (36)
13	07:33		07:02		07:44 (Alt 9)	07:15		08:15 (Alt 9)	06:17	05:32	19:31 (36)	05:10
	16:39		17:21	11	07:55 (Alt 9)	19:00	59	09:14 (Alt 9)	19:39	20:15	19	19:50 (36)
14	07:32		07:00		07:38 (Alt 9)	07:13		08:15 (Alt 9)	06:16	05:30	19:31 (36)	05:10
	16:40		17:23	21	07:59 (Alt 9)	19:01	58	09:13 (Alt 9)	19:40	20:16	20	19:51 (36)
15	07:32		06:59		07:35 (Alt 9)	07:11		08:15 (Alt 9)	06:14	05:29	19:31 (36)	05:10
	16:41		17:24	28	08:03 (Alt 9)	19:02	56	09:11 (Alt 9)	19:41	20:17	21	19:52 (36)
16	07:31		06:57		07:32 (Alt 9)	07:09		08:16 (Alt 9)	06:12	05:28	19:30 (36)	05:10
	16:42		17:26	33	08:05 (Alt 9)	19:03	54	09:10 (Alt 9)	19:43	20:18	23	19:53 (36)
17	07:31		06:56		07:31 (Alt 9)	07:07		08:16 (Alt 9)	06:10	05:27	19:30 (36)	05:10
	16:44		17:27	37	08:08 (Alt 9)	19:05	53	09:09 (Alt 9)	19:44	20:19	24	19:54 (36)
18	07:30		06:54		07:28 (Alt 9)	07:05		08:18 (Alt 9)	06:09	05:26	19:30 (36)	05:10
	16:45		17:28	41	08:09 (Alt 9)	19:06	50	09:08 (Alt 9)	19:45	20:20	25	19:55 (36)
19	07:29		06:53		07:27 (Alt 9)	07:03		08:19 (Alt 9)	06:07	05:25	19:30 (36)	05:10
	16:46		17:30	45	08:12 (Alt 9)	19:07	47	09:06 (Alt 9)	19:46	20:21	26	19:56 (36)
20	07:29		16:19 (Alt 5)		07:25 (Alt 9)	07:02		08:20 (Alt 9)	06:05	05:24	19:30 (36)	05:10
	16:48	2	16:21 (Alt 5)	17:31	48	08:13 (Alt 9)	19:09	44	09:04 (Alt 9)	19:48	20:23	27
21	07:28		16:18 (Alt 5)	06:49		07:24 (Alt 9)	07:00		08:21 (Alt 9)	06:04	05:23	19:30 (36)
	16:49	4	16:22 (Alt 5)	17:33	49	08:13 (Alt 9)	19:10	41	09:02 (Alt 9)	19:49	20:24	28
22	07:27		16:17 (Alt 5)	06:48		07:23 (Alt 9)	06:58		08:22 (Alt 9)	06:02	05:22	19:31 (36)
	16:50	7	16:24 (Alt 5)	17:34	52	08:15 (Alt 9)	19:11	37	08:59 (Alt 9)	19:50	20:25	29
23	07:26		16:16 (Alt 5)	06:46		07:22 (Alt 9)	06:56		08:24 (Alt 9)	06:00	05:21	19:31 (36)
	16:52	9	16:25 (Alt 5)	17:35	54	08:16 (Alt 9)	19:12	33	08:57 (Alt 9)	19:51	20:26	30
24	07:25		16:16 (Alt 5)	06:45		07:20 (Alt 9)	06:54		08:26 (Alt 9)	05:59	05:20	19:31 (36)
	16:53	10	16:26 (Alt 5)	17:37	56	08:16 (Alt 9)	19:14	27	08:53 (Alt 9)	19:53	20:27	30
25	07:24		16:15 (Alt 5)	06:43		07:20 (Alt 9)	06:52		08:29 (Alt 9)	05:57	05:19	19:31 (36)
	16:54	13	16:28 (Alt 5)	17:38	57	08:17 (Alt 9)	19:15	20	08:49 (Alt 9)	19:54	20:28	29
26	07:24		16:15 (Alt 5)	06:41		07:19 (Alt 9)	06:50		08:35 (Alt 9)	05:55	05:18	19:31 (36)
	16:56	14	16:29 (Alt 5)	17:40	59	08:18 (Alt 9)	19:16	7	08:42 (Alt 9)	19:55	20:29	29
27	07:23		16:15 (Alt 5)	06:39		07:18 (Alt 9)	06:48			05:54	05:18	19:32 (36)
	16:57	16	16:31 (Alt 5)	17:41	60	08:18 (Alt 9)	19:17			19:56	20:30	29
28	07:22		16:15 (Alt 5)	06:38		07:17 (Alt 9)	06:47			05:52	05:17	19:32 (36)
	16:59	17	16:32 (Alt 5)	17:42	61	08:18 (Alt 9)	19:19			19:58	20:31	28
29	07:21		16:15 (Alt 5)				06:45			05:51	05:16	19:33 (36)
	17:00	19	16:34 (Alt 5)				19:20			19:59	20:32	28
30	07:20		16:16 (Alt 5)				06:43			05:49	05:16	19:33 (36)
	17:01	20	16:36 (Alt 5)				19:21			20:00	20:33	27
31	07:18		16:16 (Alt 5)				06:41				05:15	19:33 (36)
	17:03	21	16:37 (Alt 5)				19:22				20:34	26
Potential sun hours	286		291				369		404	459		466
Total, worst case		152		880			1335			565		480
Sun reduction		0.41		0.48			0.51			0.56		0.59
Oper. time red.		1.00		1.00			1.00			1.00		1.00
Wind dir. red.		0.79		0.64			0.61			0.60		0.60
Total reduction		0.33		0.31			0.31			0.34		0.36
Total, real		50		274			416			191		171

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Licensed user:

EDR

217 Montgomery St.

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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 251 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (840)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	19:45 (36)	05:42	19:43 (36)	06:18	06:54	07:54 (Alt 9)	06:34		07:14	
2	05:15	19:44 (36)	05:43	19:44 (36)	06:19	06:55	07:53 (Alt 9)	06:36	15:55 (Alt 5)	07:15	
3	05:15	19:44 (36)	05:44	19:45 (36)	06:21	06:56	07:53 (Alt 9)	06:37	15:52 (Alt 5)	07:16	
4	05:16	19:43 (36)	05:45	19:46 (36)	06:22	06:58	07:52 (Alt 9)	06:38	15:51 (Alt 5)	07:17	
5	05:17	19:43 (36)	05:46	19:48 (36)	06:23	06:59	07:51 (Alt 9)	06:40	15:49 (Alt 5)	07:18	
6	05:17	19:43 (36)	05:47	19:50 (36)	06:24	07:00	07:50 (Alt 9)	06:41	15:48 (Alt 5)	07:19	
7	05:18	19:42 (36)	05:49	19:53 (36)	06:25	07:01	07:51 (Alt 9)	06:42	15:48 (Alt 5)	07:20	
8	05:19	19:42 (36)	05:50		06:26	07:03	07:50 (Alt 9)	06:44	15:47 (Alt 5)	07:21	
9	05:19	19:42 (36)	05:51		06:28	07:04	07:50 (Alt 9)	06:45	15:47 (Alt 5)	07:22	
10	05:20	19:42 (36)	05:52		06:29	07:05	07:50 (Alt 9)	06:46	15:46 (Alt 5)	07:23	
11	05:21	19:41 (36)	05:53		06:30	07:06	07:50 (Alt 9)	06:48	15:47 (Alt 5)	07:24	
12	05:22	19:41 (36)	05:54		06:31	07:08	07:50 (Alt 9)	06:49	15:46 (Alt 5)	07:25	
13	05:23	19:41 (36)	05:56		06:32	07:09	07:51 (Alt 9)	06:51	15:47 (Alt 5)	07:26	
14	05:23	19:41 (36)	05:57		06:34	07:10	07:51 (Alt 9)	06:52	15:47 (Alt 5)	07:27	
15	05:24	19:41 (36)	05:58		06:35	07:12	07:51 (Alt 9)	06:53	15:48 (Alt 5)	07:27	
16	05:25	19:41 (36)	05:59		06:36	07:13	07:52 (Alt 9)	06:55	15:48 (Alt 5)	07:28	
17	05:26	19:40 (36)	06:00		06:37	07:14	07:52 (Alt 9)	06:56	15:49 (Alt 5)	07:29	
18	05:27	19:40 (36)	06:02		06:38	07:15	07:52 (Alt 9)	06:57	15:50 (Alt 5)	07:29	
19	05:28	19:40 (36)	06:03		06:39	07:17	07:53 (Alt 9)	06:59	15:50 (Alt 5)	07:30	
20	05:29	19:40 (36)	06:04		06:41	07:18	07:54 (Alt 9)	07:00	15:52 (Alt 5)	07:31	
21	05:30	19:40 (36)	06:05		06:42	07:19	07:55 (Alt 9)	07:01	15:53 (Alt 5)	07:31	
22	05:31	19:40 (36)	06:06		06:43	07:21	07:56 (Alt 9)	07:03	15:55 (Alt 5)	07:32	
23	05:32	19:40 (36)	06:07		06:44	07:22	07:57 (Alt 9)	07:04	15:57 (Alt 5)	07:32	
24	05:33	19:40 (36)	06:09		06:45	07:23	07:59 (Alt 9)	07:05		07:33	
25	05:34	19:40 (36)	06:10		06:47	07:25	08:01 (Alt 9)	07:06		07:33	
26	05:35	19:40 (36)	06:11		06:48	07:26	08:02 (Alt 9)	07:08		07:33	
27	05:36	19:41 (36)	06:12		06:49	07:27	08:06 (Alt 9)	07:09		07:34	
28	05:37	19:41 (36)	06:13		06:50	07:29	08:09 (Alt 9)	07:10		07:34	
29	05:38	19:41 (36)	06:15		06:52	07:30	08:15 (Alt 9)	07:11		07:34	
30	05:40	19:42 (36)	06:16		06:53	07:31	08:22 (Alt 9)	07:13		07:35	
31	05:41	19:42 (36)	06:17		06:54	07:33		07:14		07:35	
Potential sun hours	472		436		376	341		288		275	
Total, worst case		756		61	565	1502		322			
Sun reduction		0.64		0.60	0.54	0.47		0.31			
Oper. time red.		1.00		1.00	1.00	1.00		1.00			
Wind dir. red.		0.60		0.60	0.61	0.61		0.79			
Total reduction		0.39		0.36	0.33	0.29		0.25			
Total, real		292		22	187	432		80			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

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217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 257 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (846)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:32 (Alt 9)	07:17	15:48 (Alt 9)	06:36	06:39	07:16 (24)	05:48		05:14	05:46 (23)
2	07:35	15:31 (Alt 9)	07:16	15:50 (Alt 9)	06:34	06:37	07:18 (24)	05:46		05:14	05:46 (23)
3	07:35	15:32 (Alt 9)	07:15	15:53 (Alt 9)	06:33	06:35	07:20 (24)	05:45		05:13	05:46 (23)
4	07:35	15:32 (Alt 9)	07:14	16:06 (Alt 9)	07:46	06:34	07:30 (24)	05:43		05:13	05:46 (23)
5	07:35	15:32 (Alt 9)	07:13		06:29	06:32		05:42		05:12	05:47 (23)
6	07:35	15:33 (Alt 9)	07:11		06:27	06:30		05:41		05:12	05:47 (23)
7	07:34	15:33 (Alt 9)	07:10		06:25	06:28		05:39		05:12	05:47 (23)
8	07:34	15:33 (Alt 9)	07:09		07:24	06:26		05:38		05:11	05:48 (23)
9	07:34	15:33 (Alt 9)	07:07		07:22	06:24		05:36		05:11	05:48 (23)
10	07:34	15:34 (Alt 9)	07:06		07:20	06:23		05:35		05:11	05:49 (23)
11	07:33	15:34 (Alt 9)	07:05		07:18	06:21		05:34		05:11	05:50 (23)
12	07:33	15:34 (Alt 9)	07:03		07:16	06:19		05:33		05:10	05:49 (23)
13	07:33	15:34 (Alt 9)	07:02		07:15	06:17		05:31	05:53 (23)	05:10	05:49 (23)
14	07:32	15:35 (Alt 9)	07:00		07:13	06:16		05:30	05:52 (23)	05:10	05:50 (23)
15	07:32	15:35 (Alt 9)	06:59		07:11	06:14		05:29	05:51 (23)	05:10	05:50 (23)
16	07:31	15:35 (Alt 9)	06:57		07:09	06:12		05:28	05:50 (23)	05:10	05:51 (23)
17	07:31	15:36 (Alt 9)	06:56		07:07	06:10		05:27	05:49 (23)	05:10	05:51 (23)
18	07:30	15:36 (Alt 9)	06:54		07:05	06:09		05:26	05:48 (23)	05:10	05:51 (23)
19	07:29	15:36 (Alt 9)	06:53		07:03	06:07		05:25	05:47 (23)	05:10	05:52 (23)
20	07:29	15:36 (Alt 9)	06:51		07:02	06:05		05:24	05:46 (23)	05:10	05:52 (23)
21	07:28	15:38 (Alt 9)	06:49		07:00	06:04		05:23	05:45 (23)	05:10	05:52 (23)
22	07:27	15:38 (Alt 9)	06:48		06:58	06:02		05:22	05:46 (23)	05:11	05:52 (23)
23	07:26	15:39 (Alt 9)	06:46		06:56	06:00		05:21	05:45 (23)	05:11	05:52 (23)
24	07:25	15:39 (Alt 9)	06:44		06:54	05:59		05:20	05:45 (23)	05:11	05:53 (23)
25	07:24	15:40 (Alt 9)	06:43		06:52	05:57		05:19	05:45 (23)	05:12	05:53 (23)
26	07:24	15:41 (Alt 9)	06:41		06:50	05:55		05:18	05:44 (23)	05:12	05:53 (23)
27	07:23	15:42 (Alt 9)	06:39		06:48	05:54		05:18	05:44 (23)	05:12	05:53 (23)
28	07:22	15:43 (Alt 9)	06:38		06:47	05:52		05:17	05:43 (23)	05:13	05:53 (23)
29	07:21	15:44 (Alt 9)			06:45	05:51		05:16	05:43 (23)	05:13	05:53 (23)
30	07:20	15:45 (Alt 9)			06:43	05:49		05:16	05:43 (23)	05:14	05:53 (23)
31	07:18	15:46 (Alt 9)			06:41	05:47		05:15	05:43 (23)	05:14	05:53 (23)
Potential sun hours	286	291	369	404	459	466					
Total, worst case	1035	53	316	46	444	712					
Sun reduction	0.41	0.48	0.51	0.49	0.56	0.59					
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00					
Wind dir. red.	0.79	0.79	0.70	0.70	0.79	0.79					
Total reduction	0.33	0.38	0.36	0.34	0.44	0.47					
Total, real	337	20	113	16	197	333					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 257 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (846)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:54 (23)	05:42	06:18		06:54	06:34			07:14	15:16 (Alt 9)
2	05:15	05:53 (23)	05:43	06:19		06:55	06:35			07:15	15:16 (Alt 9)
3	05:15	05:54 (23)	05:44	06:20		06:56	06:37			07:16	15:18 (Alt 9)
4	05:16	05:53 (23)	05:45	06:22		06:58	06:38			07:17	15:18 (Alt 9)
5	05:16	05:53 (23)	05:46	06:23		06:59	06:40			07:18	15:18 (Alt 9)
6	05:17	05:54 (23)	05:47	06:24		07:00	06:41			07:19	15:19 (Alt 9)
7	05:18	05:53 (23)	05:49	06:25		07:01	06:42			07:20	15:20 (Alt 9)
8	05:19	05:53 (23)	05:50	06:26		07:03	06:44			07:21	15:20 (Alt 9)
9	05:19	05:54 (23)	05:51	06:28		07:04	06:45			07:22	15:21 (Alt 9)
10	05:20	05:54 (23)	05:52	06:29		07:11 (24)	07:05			07:23	15:21 (Alt 9)
11	05:21	05:53 (23)	05:53	06:30		07:10 (24)	07:06			07:24	15:22 (Alt 9)
12	05:22	05:53 (23)	05:54	06:31		07:08 (24)	07:08			07:25	15:23 (Alt 9)
13	05:23	05:54 (23)	05:56	06:32		07:06 (24)	07:09			07:26	15:23 (Alt 9)
14	05:23	05:54 (23)	05:57	06:34		07:05 (24)	07:10			07:27	15:24 (Alt 9)
15	05:24	05:54 (23)	05:58	06:35		07:04 (24)	07:11			07:27	15:24 (Alt 9)
16	05:25	05:53 (23)	05:59	06:36		07:03 (24)	07:13			07:28	15:25 (Alt 9)
17	05:26	05:54 (23)	06:00	06:37		07:03 (24)	07:14			07:29	15:25 (Alt 9)
18	05:27	05:54 (23)	06:02	06:38		07:03 (24)	07:15			07:29	15:26 (Alt 9)
19	05:28	05:54 (23)	06:03	06:39		07:03 (24)	07:17			07:30	15:27 (Alt 9)
20	05:29	05:55 (23)	06:04	06:41		07:03 (24)	07:18			07:31	15:27 (Alt 9)
21	05:30	05:55 (23)	06:05	06:42		07:03 (24)	07:19			07:31	15:28 (Alt 9)
22	05:31	05:55 (23)	06:06	06:43		07:04 (24)	07:21			07:32	15:28 (Alt 9)
23	05:32	05:56 (23)	06:07	06:44		07:05 (24)	07:22			07:32	15:29 (Alt 9)
24	05:33	05:57 (23)	06:09	06:45		07:07 (24)	07:23			07:33	15:29 (Alt 9)
25	05:34	05:58 (23)	06:10	06:47		07:08 (24)	07:25			07:33	15:29 (Alt 9)
26	05:35	05:59 (23)	06:11	06:48		07:08 (24)	07:26			07:33	15:30 (Alt 9)
27	05:36	06:00 (23)	06:12	06:49		07:09	07:27			07:34	15:30 (Alt 9)
28	05:37	06:01 (23)	06:13	06:50		07:10	07:29			07:34	15:30 (Alt 9)
29	05:38	06:02 (23)	06:15	06:51		07:11	07:31			07:34	15:31 (Alt 9)
30	05:39	06:03 (23)	06:16	06:53		07:12	07:31			07:34	15:31 (Alt 9)
31	05:41	06:05 (23)	06:17	06:53		07:14	07:33			07:35	15:32 (Alt 9)
Potential sun hours	472		436	376		341	288			275	
Total, worst case	743			366			764			793	
Sun reduction	0.64			0.54			0.31			0.33	
Oper. time red.	1.00			1.00			1.00			1.00	
Wind dir. red.	0.79			0.70			0.79			0.79	
Total reduction	0.51			0.38			0.25			0.26	
Total, real	376			139			188			208	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 258 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (847)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:40 (Alt 9)	07:17	06:36		06:39	05:48			05:14	05:56 (23)
	16:26	18	15:58 (Alt 9)	17:04	17:44		19:24	20:00		20:34	06:27 (23)
2	07:35	15:40 (Alt 9)	07:16	06:34		06:37	05:46			05:14	05:56 (23)
	16:27	18	15:58 (Alt 9)	17:06	17:45	12	07:09 (24)	19:25	20:01	20:35	06:27 (23)
3	07:35	15:40 (Alt 9)	07:15	06:33		06:35	05:45			05:13	05:57 (23)
	16:28	19	15:59 (Alt 9)	17:07	17:46	17	07:11 (24)	19:26	20:03	20:36	06:27 (23)
4	07:35	15:40 (Alt 9)	07:14	06:31		06:34	05:43			05:13	05:57 (23)
	16:29	20	16:00 (Alt 9)	17:08	17:48	22	07:13 (24)	19:27	20:04	20:37	06:26 (23)
5	07:35	15:41 (Alt 9)	07:13	06:29		06:32	05:42		06:09 (23)	05:12	05:58 (23)
	16:30	20	16:01 (Alt 9)	17:10	17:49	25	07:15 (24)	19:29	20:05	3	06:12 (23)
6	07:35	15:41 (Alt 9)	07:11	06:27		06:30	05:40		06:04 (23)	05:12	05:59 (23)
	16:31	22	16:03 (Alt 9)	17:11	17:50	27	07:16 (24)	19:30	20:06	13	06:17 (23)
7	07:34	15:42 (Alt 9)	07:10	06:25		06:28	05:39		06:02 (23)	05:12	05:58 (23)
	16:32	22	16:04 (Alt 9)	17:13	17:52	28	07:16 (24)	19:31	20:07	18	06:20 (23)
8	07:34	15:42 (Alt 9)	07:09	07:24		06:26	05:38		06:00 (23)	05:11	05:59 (23)
	16:33	22	16:04 (Alt 9)	17:14	18:53	30	08:17 (24)	19:32	20:09	21	06:21 (23)
9	07:34	15:42 (Alt 9)	07:07	07:22		06:24	05:36		05:59 (23)	05:11	06:00 (23)
	16:34	24	16:06 (Alt 9)	17:16	18:54	31	08:17 (24)	19:34	20:10	23	06:22 (23)
10	07:34	15:43 (Alt 9)	07:06	07:20		06:23	05:35		05:58 (23)	05:11	06:01 (23)
	16:35	25	16:08 (Alt 9)	17:17	18:56	32	08:17 (24)	19:35	20:11	25	06:23 (23)
11	07:33	15:43 (Alt 9)	07:05	07:18		06:21	05:34		05:57 (23)	05:10	06:01 (23)
	16:36	25	16:08 (Alt 9)	17:19	18:57	32	08:17 (24)	19:36	20:12	27	06:24 (23)
12	07:33	15:44 (Alt 9)	07:03	07:24 (28)	07:16		06:19	05:33	05:56 (23)	05:10	06:01 (23)
	16:38	26	16:10 (Alt 9)	17:20	9	07:33 (28)	18:58	32	08:17 (24)	19:38	20:13
13	07:33	15:44 (Alt 9)	07:02	07:23 (28)	07:15		06:17	05:31	05:55 (23)	05:10	06:01 (23)
	16:39	27	16:11 (Alt 9)	17:21	13	07:36 (28)	18:59	31	08:16 (24)	19:39	20:15
14	07:32	15:45 (Alt 9)	07:00	07:21 (28)	07:13		06:16	05:30	05:54 (23)	05:10	06:02 (23)
	16:40	28	16:13 (Alt 9)	17:23	16	07:37 (28)	19:01	30	08:15 (24)	19:40	20:16
15	07:32	15:45 (Alt 9)	06:59	07:20 (28)	07:11		06:14	05:29	05:54 (23)	05:10	06:02 (23)
	16:41	28	16:13 (Alt 9)	17:24	19	07:39 (28)	19:02	29	08:14 (24)	19:41	20:17
16	07:31	15:45 (Alt 9)	06:57	07:18 (28)	07:09		06:12	05:28	05:54 (23)	05:10	06:03 (23)
	16:42	29	16:14 (Alt 9)	17:26	21	07:39 (28)	19:03	28	08:13 (24)	19:43	20:18
17	07:31	15:46 (Alt 9)	06:56	07:17 (28)	07:07		06:10	05:27	05:53 (23)	05:10	06:03 (23)
	16:44	29	16:15 (Alt 9)	17:27	23	07:40 (28)	19:05	27	08:12 (24)	19:44	20:19
18	07:30	15:47 (Alt 9)	06:54	07:16 (28)	07:05		06:09	05:26	05:53 (23)	05:10	06:03 (23)
	16:45	28	16:15 (Alt 9)	17:28	24	07:40 (28)	19:06	24	08:10 (24)	19:45	20:20
19	07:29	15:47 (Alt 9)	06:53	07:16 (28)	07:03		06:07	05:25	05:53 (23)	05:10	06:04 (23)
	16:46	28	16:15 (Alt 9)	17:30	25	07:41 (28)	19:07	21	08:09 (24)	19:46	20:21
20	07:29	15:48 (Alt 9)	06:51	07:16 (28)	07:02		06:05	05:24	05:53 (23)	05:10	06:05 (23)
	16:48	26	16:14 (Alt 9)	17:31	25	07:41 (28)	19:08	17	08:07 (24)	19:48	20:23
21	07:28	15:49 (Alt 9)	06:49	07:16 (28)	07:00		06:04	05:23	05:53 (23)	05:10	06:05 (23)
	16:49	26	16:15 (Alt 9)	17:33	24	07:40 (28)	19:10	10	08:03 (24)	19:49	20:24
22	07:27	15:50 (Alt 9)	06:48	07:16 (28)	06:58		06:02	05:22	05:54 (23)	05:11	06:05 (23)
	16:50	24	16:14 (Alt 9)	17:34	24	07:40 (28)	19:11		19:50	20:25	34
23	07:26	15:51 (Alt 9)	06:46	07:17 (28)	06:56		06:00	05:21	05:54 (23)	05:11	06:05 (23)
	16:52	23	16:14 (Alt 9)	17:35	22	07:39 (28)	19:12		19:51	20:26	34
24	07:25	15:52 (Alt 9)	06:44	07:17 (28)	06:54		05:59	05:20	05:54 (23)	05:11	06:05 (23)
	16:53	21	16:13 (Alt 9)	17:37	21	07:38 (28)	19:14		19:53	20:27	34
25	07:24	15:54 (Alt 9)	06:43	07:18 (28)	06:52		05:57	05:19	05:54 (23)	05:12	06:05 (23)
	16:54	18	16:12 (Alt 9)	17:38	20	07:38 (28)	19:15		19:54	20:28	34
26	07:24	15:56 (Alt 9)	06:41	07:19 (28)	06:50		05:55	05:18	05:54 (23)	05:12	06:05 (23)
	16:56	15	16:11 (Alt 9)	17:39	17	07:36 (28)	19:16		19:55	20:29	33
27	07:23	15:58 (Alt 9)	06:39	07:21 (28)	06:48		05:54	05:18	05:54 (23)	05:12	06:06 (23)
	16:57	11	16:09 (Alt 9)	17:41	12	07:33 (28)	19:17		19:56	20:30	34
28	07:22		06:38	07:25 (28)	06:47		05:52	05:17	05:54 (23)	05:13	06:05 (23)
	16:59		17:42	3	07:28 (28)	19:19		19:58	20:31	33	06:27 (23)
29	07:21				06:45		05:51	05:16	05:54 (23)	05:13	06:06 (23)
	17:00				19:20		19:59	20:32	33	06:27 (23)	20:47
30	07:19				06:43		05:49	05:16	05:55 (23)	05:14	06:05 (23)
	17:01				19:21		20:00	20:33	32	06:27 (23)	20:47
31	07:18				06:41			05:15	05:55 (23)		
	17:03				19:22			20:34	32	06:27 (23)	
Potential sun hours	286		291		369		404	459		466	
Total, worst case		622		318		505		789		732	
Sun reduction	0.41		0.48		0.51			0.56		0.59	
Oper. time red.	1.00		1.00		1.00			1.00		1.00	
Wind dir. red.	0.79		0.61		0.65			0.79		0.79	
Total reduction	0.32		0.29		0.33			0.44		0.46	
Total, real	202		93		166			347		339	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

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US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 258 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (847)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July	August	September	October	November	December
1 05:14	06:06 (23) 05:42	06:06 (23) 06:18	06:54	07:24 (24) 06:34	07:14
2 05:15	06:05 (23) 05:43	06:07 (23) 06:19	06:55	07:23 (24) 06:35	16:18
3 05:15	06:05 (23) 05:44	06:09 (23) 06:20	06:56	07:24 (24) 06:37	16:17
4 05:16	06:05 (23) 05:45	06:10 (23) 06:22	06:58	07:23 (24) 06:38	16:17
5 05:16	06:05 (23) 05:46	06:11 (23) 06:23	06:59	07:23 (24) 06:40	16:17
6 05:17	06:05 (23) 05:47	06:13 (23) 06:24	07:00	07:23 (24) 06:41	16:16
7 05:18	06:04 (23) 05:49	06:15 (23) 06:25	07:01	07:24 (24) 06:42	16:16
8 05:19	06:04 (23) 05:50	06:16 (23) 06:26	07:03	07:25 (24) 06:44	16:16
9 05:19	06:04 (23) 05:51	06:17 (23) 06:27	07:04	07:25 (24) 06:45	16:16
10 05:20	06:05 (23) 05:52	06:18 (23) 06:28	07:05	07:26 (24) 06:46	16:16
11 05:21	06:05 (23) 05:53	06:19 (23) 06:29	07:06	07:27 (24) 06:47	16:16
12 05:22	06:06 (23) 05:54	06:20 (23) 06:30	07:08	07:28 (24) 06:49	16:16
13 05:23	06:06 (23) 05:55	06:21 (23) 06:31	07:09	07:29 (24) 06:51	16:16
14 05:23	06:06 (23) 05:56	06:22 (23) 06:32	07:10	07:30 (24) 06:52	16:16
15 05:24	06:07 (23) 05:57	06:23 (23) 06:33	07:11	07:31 (24) 06:53	16:16
16 05:25	06:07 (23) 05:58	06:24 (23) 06:34	07:12	07:32 (24) 06:54	16:16
17 05:26	06:08 (23) 05:59	06:25 (23) 06:35	07:13	07:33 (24) 06:55	16:16
18 05:27	06:08 (23) 06:00	06:26 (23) 06:36	07:14	07:34 (24) 06:56	16:16
19 05:28	06:09 (23) 06:01	06:27 (23) 06:37	07:15	07:35 (24) 06:57	16:16
20 05:29	06:09 (23) 06:02	06:28 (23) 06:38	07:16	07:36 (24) 06:58	16:16
21 05:30	06:10 (23) 06:03	06:29 (23) 06:39	07:17	07:37 (24) 06:59	16:16
22 05:31	06:10 (23) 06:04	06:30 (23) 06:40	07:18	07:38 (24) 07:00	16:16
23 05:32	06:11 (23) 06:05	06:31 (23) 06:41	07:19	07:39 (24) 07:01	16:16
24 05:33	06:11 (23) 06:06	06:32 (23) 06:42	07:20	07:40 (24) 07:02	16:16
25 05:34	06:12 (23) 06:07	06:33 (23) 06:43	07:21	07:41 (24) 07:03	16:16
26 05:35	06:12 (23) 06:08	06:34 (23) 06:44	07:22	07:42 (24) 07:04	16:16
27 05:36	06:13 (23) 06:09	06:35 (23) 06:45	07:23	07:43 (24) 07:05	16:16
28 05:37	06:13 (23) 06:10	06:36 (23) 06:46	07:24	07:44 (24) 07:06	16:16
29 05:38	06:14 (23) 06:11	06:37 (23) 06:47	07:25	07:45 (24) 07:07	16:16
30 05:39	06:14 (23) 06:12	06:38 (23) 06:48	07:26	07:46 (24) 07:08	16:16
31 05:41	06:15 (23) 06:13	06:39 (23) 06:49	07:27	07:47 (24) 07:09	16:16
Potential sun hours	472	436	376	341	288
Total, worst case	966	150	214	633	389
Sun reduction	0.64	0.60	0.54	0.47	0.31
Oper. time red.	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.79	0.79	0.65	0.63	0.79
Total reduction	0.50	0.47	0.35	0.29	0.25
Total, real	485	71	75	186	95

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

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EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 314 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (899)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	07:17	15:32 (25)	06:36	15:27 (25)	06:39	05:48	19:08 (12)	05:14		
	16:26	17:04	47	16:19 (25)	17:43	58	16:25 (25)	19:24	20:00	19:37 (12)	20:34
2	07:35	07:16	15:31 (25)	06:34	15:29 (25)	06:37	05:46	19:08 (12)	05:14		
	16:27	17:05	50	16:21 (25)	17:45	56	16:25 (25)	19:25	20:01	19:36 (12)	20:35
3	07:35	07:15	15:31 (25)	06:32	15:30 (25)	06:35	05:45	19:09 (12)	05:13		
	16:28	17:07	51	16:22 (25)	17:46	53	16:23 (25)	19:26	20:02	19:36 (12)	20:36
4	07:35	07:14	15:29 (25)	06:31	15:31 (25)	06:33	05:43	19:09 (12)	05:13		
	16:29	17:08	54	16:23 (25)	17:47	51	16:22 (25)	19:27	20:04	19:35 (12)	20:37
5	07:35	07:12	15:29 (25)	06:29	15:32 (25)	06:32	05:42	19:10 (12)	05:12		
	16:30	17:10	55	16:24 (25)	17:49	48	16:20 (25)	19:29	20:05	19:34 (12)	20:38
6	07:34	07:11	15:28 (25)	06:27	15:34 (25)	06:30	05:40	19:12 (12)	05:12		
	16:31	17:11	57	16:25 (25)	17:50	45	16:19 (25)	19:30	20:06	19:33 (12)	20:38
7	07:34	07:10	15:27 (25)	06:25	15:36 (25)	06:28	05:39	19:12 (12)	05:11		
	16:32	17:13	58	16:25 (25)	17:51	41	16:17 (25)	19:31	20:07	19:31 (12)	20:39
8	07:34	07:08	15:27 (25)	07:23	16:37 (25)	06:26	05:38	19:14 (12)	05:11		
	16:33	17:14	60	16:27 (25)	18:53	38	17:15 (25)	19:32	20:08	19:30 (12)	20:40
9	07:34	07:07	15:27 (25)	07:22	16:39 (25)	06:24	05:36	19:16 (12)	05:11		
	16:34	17:15	61	16:28 (25)	18:54	34	17:13 (25)	19:34	20:10	19:27 (12)	20:41
10	07:34	07:06	15:26 (25)	07:20	16:42 (25)	06:22	05:35		05:11		
	16:35	17:17	62	16:28 (25)	18:55	28	17:10 (25)	19:35	20:11		20:41
11	07:33	07:04	15:26 (25)	07:18	16:46 (25)	06:21	05:34		05:10		
	16:36	17:18	63	16:29 (25)	18:57	19	17:05 (25)	19:36	20:12		20:42
12	07:33	07:03	15:25 (25)	07:16	16:54 (25)	06:19	05:33		05:10		
	16:37	17:20	64	16:29 (25)	18:58	4	16:58 (25)	19:37	20:13		20:42
13	07:32	07:02	15:25 (25)	07:14		06:17	05:31		05:10		
	16:39	17:21	64	16:29 (25)	18:59		19:39		20:14		20:43
14	07:32	07:00	15:24 (25)	07:13		06:15	05:30		05:10		
	16:40	17:23	65	16:29 (25)	19:01		19:40		20:16		20:43
15	07:31	06:59	15:24 (25)	07:11		06:14	05:29		05:10		
	16:41	17:24	66	16:30 (25)	19:02		19:41		20:17		20:44
16	07:31	06:57	15:24 (25)	07:09		06:12	05:28		05:10		
	16:42	17:25	66	16:30 (25)	19:03		19:42		20:18		20:44
17	07:30	06:56	15:24 (25)	07:07		06:10	05:27		05:10		
	16:44	17:27	67	16:31 (25)	19:04		19:44		20:19		20:45
18	07:30	06:54	15:24 (25)	07:05		06:08	19:17 (12)	05:26	05:10		
	16:45	17:28	66	16:30 (25)	19:06		19:45	4	19:21 (12)	20:20	20:45
19	07:29	06:52	15:23 (25)	07:03		06:07	19:14 (12)	05:25	05:10		
	16:46	17:30	67	16:30 (25)	19:07		19:46	8	19:22 (12)	20:21	20:46
20	07:28	06:51	15:24 (25)	07:01		06:05	19:12 (12)	05:24	05:10		
	16:47	17:31	66	16:30 (25)	19:08		19:47	11	19:23 (12)	20:22	20:46
21	07:28	06:49	15:24 (25)	06:59		06:03	19:12 (12)	05:23	05:10		
	16:49	17:32	66	16:30 (25)	19:10		19:49	13	19:25 (12)	20:23	20:46
22	07:27	06:48	15:25 (25)	06:58		06:02	19:10 (12)	05:22	05:11		
	16:50	17:34	65	16:30 (25)	19:11		19:50	16	19:26 (12)	20:25	20:46
23	07:26	06:46	15:25 (25)	06:56		06:00	19:10 (12)	05:21	05:11		
	16:51	17:35	64	16:29 (25)	19:12		19:51	17	19:27 (12)	20:26	20:47
24	07:25	06:44	15:25 (25)	06:54		05:58	19:09 (12)	05:20	05:11		
	16:53	16:02 (25)	17:37	64	16:29 (25)	19:13	19:52	19	19:28 (12)	20:27	20:47
25	07:24	15:43 (25)	06:43	15:25 (25)	06:52		05:57	19:09 (12)	05:19		05:11
	16:54	16:06 (25)	17:38	63	16:28 (25)	19:15	19:54	21	19:30 (12)	20:28	20:47
26	07:23	15:41 (25)	06:41	15:26 (25)	06:50		05:55	19:08 (12)	05:18		05:12
	16:56	16:08 (25)	17:39	62	16:28 (25)	19:16	19:55	23	19:31 (12)	20:29	20:47
27	07:22	15:39 (25)	06:39	15:26 (25)	06:48		05:54	19:07 (12)	05:17		05:12
	16:57	16:11 (25)	17:41	61	16:27 (25)	19:17	19:56	24	19:31 (12)	20:30	20:47
28	07:21	15:37 (25)	06:38	15:27 (25)	06:46		05:52	19:08 (12)	05:17		05:12
	16:58	16:13 (25)	17:42	59	16:26 (25)	19:18	19:57	25	19:33 (12)	20:31	20:47
29	07:20	15:36 (25)		06:45		05:51	19:07 (12)	05:16	05:13		
	17:00	16:15 (25)		19:20		19:59	19:34 (12)	20:32	20:47		
30	07:19	15:34 (25)		06:43		05:49	19:08 (12)	05:15	05:13		
	17:01	16:16 (25)		19:21		20:00	19:35 (12)	20:33	20:47		
31	07:18	15:33 (25)		06:41				05:15			
	17:03	16:18 (25)		19:22				20:33			
Potential sun hours	286		291		369		404		459		466
Total, worst case		260	1713		475		235		201		
Sun reduction	0.41		0.48		0.51		0.49		0.56		
Oper. time red.	1.00		1.00		1.00		1.00		1.00		
Wind dir. red.	0.79		0.79		0.79		0.64		0.64		
Total reduction	0.33		0.38		0.41		0.31		0.36		
Total, real	85		656		193		74		72		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 162

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 314 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (899)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42		06:18	06:54			06:34		14:55 (25)	07:13
2	05:14	05:43		06:19	06:55			16:27 (25)	06:35	15:57 (25)	16:17
3	05:15	05:44		06:20	06:56			16:42 (25)	06:35	14:55 (25)	16:17
4	05:16	05:45		06:22	06:57			16:21 (25)	06:37	14:57 (25)	16:16
5	05:16	05:46	7	19:28 (12)	06:20	06:56		16:46 (25)	16:43	15:56 (25)	16:17
6	05:17	05:47	13	19:35 (12)	19:31	18:35	25	16:46 (25)	16:43	14:57 (25)	16:17
7	05:18	05:48	20	19:41 (12)	19:28	18:31	31	16:49 (25)	16:42	15:55 (25)	16:16
8	05:18	05:50	22	19:24 (12)	06:23	06:59		16:15 (25)	06:39	14:58 (25)	16:18
9	05:19	05:51	24	19:41 (12)	19:28	18:31	36	16:51 (25)	16:41	15:55 (25)	16:16
10	05:20	05:52	25	19:22 (12)	06:24	07:00		16:12 (25)	06:41	14:59 (25)	16:19
11	05:21	05:53	27	19:42 (12)	19:26	18:29	40	16:52 (25)	16:39	15:54 (25)	16:16
12	05:22	05:54	28	19:21 (12)	06:25	07:01		16:11 (25)	06:42	15:00 (25)	16:20
13	05:22	05:55	28	19:43 (12)	19:24	18:28	43	16:54 (25)	16:38	15:53 (25)	16:16
14	05:23	05:57	26	19:20 (12)	06:26	07:02		16:08 (25)	06:44	15:01 (25)	16:21
15	05:24	05:58	25	19:44 (12)	19:22	18:26	47	16:55 (25)	16:37	15:52 (25)	16:16
16	05:25	05:59	24	19:19 (12)	06:27	07:04		16:06 (25)	06:45	15:02 (25)	16:22
17	05:26	06:00	22	19:44 (12)	19:20	18:24	50	16:56 (25)	16:36	15:51 (25)	16:16
18	05:27	06:01	20	19:18 (12)	06:29	07:05		16:04 (25)	06:46	15:03 (25)	16:23
19	05:28	06:03	19	19:45 (12)	19:18	18:22	53	16:57 (25)	16:34	15:50 (25)	16:16
20	05:29	06:04	17	19:17 (12)	06:30	07:06		16:03 (25)	06:48	15:05 (25)	16:24
21	05:30	06:05	15	19:45 (12)	19:17	18:20	55	16:58 (25)	16:33	15:49 (25)	16:16
22	05:31	06:06	12	19:16 (12)	06:31	07:07		16:02 (25)	06:49	15:06 (25)	16:25
23	05:32	06:07	11	19:44 (12)	19:15	18:19	56	16:58 (25)	16:32	15:48 (25)	16:16
24	05:33	06:08	8	19:15 (12)	06:32	07:09		16:00 (25)	06:50	15:08 (25)	16:26
25	05:34	06:10	4	19:43 (12)	19:13	18:17	59	16:59 (25)	16:31	15:47 (25)	16:16
26	05:35	06:11		19:16 (12)	06:33	07:10		16:00 (25)	06:52	15:09 (25)	16:26
27	05:36	06:12		19:42 (12)	19:11	18:15	60	17:00 (25)	16:30	15:45 (25)	16:16
28	05:37	06:13		19:15 (12)	06:35	07:11		15:58 (25)	06:53	15:11 (25)	16:27
29	05:38	06:14		19:40 (12)	19:09	18:13	62	17:00 (25)	16:29	15:43 (25)	16:16
30	05:39	06:16		19:15 (12)	06:36	07:13		15:57 (25)	06:54	15:14 (25)	16:28
31	05:40	06:17		19:39 (12)	19:07	18:12	63	17:00 (25)	16:28	15:41 (25)	16:16
	05:41	06:18		19:15 (12)	06:37	07:14		15:57 (25)	06:56	15:16 (25)	16:29
	05:42	06:19		19:37 (12)	19:05	18:10	63	17:00 (25)	16:27	15:39 (25)	16:17
	05:43	06:20		19:15 (12)	06:38	07:15		15:56 (25)	06:57	15:21 (25)	16:29
	05:44	06:21		19:35 (12)	19:03	18:08	64	17:00 (25)	16:26	15:36 (25)	16:17
	05:45	06:22		19:15 (12)	06:39	07:17		15:55 (25)	06:58		16:30
	05:46	06:23		19:34 (12)	19:01	18:06	65	17:00 (25)	16:25		16:17
	05:47	06:24		19:15 (12)	06:40	07:18		15:55 (25)	07:00	07:31	13:38 (32)
	05:48	06:25		19:32 (12)	18:59	18:05	66	17:01 (25)	16:24	16:18	2 13:40 (32)
	05:49	06:26		19:16 (12)	06:42	07:19		15:54 (25)	07:01	07:31	13:38 (32)
	05:50	06:27		19:31 (12)	18:58	18:03	66	17:00 (25)	16:23	16:18	4 13:42 (32)
	05:51	06:28		19:17 (12)	06:43	07:20		15:55 (25)	07:02	07:32	4 13:38 (32)
	05:52	06:29		19:29 (12)	18:56	18:02	66	17:01 (25)	16:23	16:19	4 13:42 (32)
	05:53	06:30		19:17 (12)	06:44	07:22		15:54 (25)	07:04	07:32	13:39 (32)
	05:54	06:31		19:28 (12)	18:54	18:00	66	17:00 (25)	16:22	16:19	3 13:42 (32)
	05:55	06:32		19:18 (12)	06:45	07:23		15:53 (25)	07:05	07:33	
	05:56	06:33		19:26 (12)	18:52	17:58	67	17:00 (25)	16:21	16:20	
	05:57	06:34		19:20 (12)	06:46	07:24		15:54 (25)	07:06	07:33	
	05:58	06:35		19:24 (12)	18:50	17:57	66	17:00 (25)	16:21	16:20	
	05:59	06:36			06:48	07:26		15:53 (25)	07:07	07:33	
	06:00	06:37			18:48	17:55	66	16:59 (25)	16:20	16:21	
	06:01	06:38			06:49	07:27		15:54 (25)	07:09	07:34	
	06:02	06:39			18:46	17:54	66	17:00 (25)	16:19	16:22	
	06:03	06:40			06:50	07:29		15:54 (25)	07:10	07:34	
	06:04	06:41			18:44	17:52	65	16:59 (25)	16:19	16:22	
	06:05	06:42			06:51	07:30		15:55 (25)	07:11	07:34	
	06:06	06:43			18:42	17:51	64	16:59 (25)	16:18	16:23	
	06:07	06:44			06:53	07:31		15:54 (25)	07:12	07:34	
	06:08	06:45			18:41	17:49	64	16:58 (25)	16:18	16:24	
	06:09	06:46				07:33		15:54 (25)		07:34	
	06:10	06:47				17:48	63	16:57 (25)		16:25	
Potential sun hours	472	436		376	341		288			275	
Total, worst case		442			1672		810			13	
Sun reduction		0.60			0.47		0.31			0.33	
Oper. time red.		1.00			1.00		1.00			1.00	
Wind dir. red.		0.64			0.79		0.79			0.70	
Total reduction		0.38			0.37		0.25			0.23	
Total, real		170			627		200			3	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 163

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 315 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (900)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June
1	07:35	14:30 (29)	07:17	14:37 (29)	06:36	06:39	18:41 (21)	05:48	05:14		
	16:26	50	15:20 (29)	17:04	58	15:35 (29)	17:43	19:24	19	19:00 (21)	20:00
2	07:35	14:30 (29)	07:16	14:38 (29)	06:34	06:37	18:39 (21)	05:46	05:14		
	16:27	51	15:21 (29)	17:06	57	15:35 (29)	17:45	19:25	21	19:00 (21)	20:01
3	07:35	14:30 (29)	07:15	14:39 (29)	06:32	06:35	18:38 (21)	05:45	05:13		
	16:28	52	15:22 (29)	17:07	56	15:35 (29)	17:46	19:26	23	19:01 (21)	20:02
4	07:35	14:31 (29)	07:14	14:39 (29)	06:31	06:33	18:38 (21)	05:43	05:13		
	16:29	51	15:22 (29)	17:08	55	15:34 (29)	17:47	19:27	24	19:02 (21)	20:04
5	07:35	14:31 (29)	07:12	14:40 (29)	06:29	06:32	18:37 (21)	05:42	05:12		
	16:30	52	15:23 (29)	17:10	54	15:34 (29)	17:49	19:29	25	19:02 (21)	20:05
6	07:35	14:31 (29)	07:11	14:41 (29)	06:27	06:30	18:36 (21)	05:40	05:12		
	16:31	53	15:24 (29)	17:11	53	15:34 (29)	17:50	19:30	26	19:02 (21)	20:06
7	07:34	14:32 (29)	07:10	14:41 (29)	06:25	06:28	18:35 (21)	05:39	05:11		
	16:32	53	15:25 (29)	17:13	51	15:32 (29)	17:51	19:31	26	19:01 (21)	20:07
8	07:34	14:31 (29)	07:09	14:43 (29)	07:24	06:26	18:35 (21)	05:38	05:11		
	16:33	54	15:25 (29)	17:14	49	15:32 (29)	18:53	19:32	26	19:01 (21)	20:09
9	07:34	14:32 (29)	07:07	14:45 (29)	07:22	06:24	18:35 (21)	05:36	05:11		
	16:34	54	15:26 (29)	17:16	47	15:32 (29)	18:54	19:34	25	19:00 (21)	20:10
10	07:34	14:32 (29)	07:06	14:45 (29)	07:20	06:23	18:36 (21)	05:35	05:11		
	16:35	55	15:27 (29)	17:17	45	15:30 (29)	18:55	19:35	24	19:00 (21)	20:11
11	07:33	14:32 (29)	07:04	14:47 (29)	07:18	06:21	18:36 (21)	05:34	05:10		
	16:36	56	15:28 (29)	17:18	42	15:29 (29)	18:57	19:36	22	18:58 (21)	20:12
12	07:33	14:32 (29)	07:03	14:48 (29)	07:16	06:19	18:37 (21)	05:33	05:10		
	16:37	57	15:29 (29)	17:20	40	15:28 (29)	18:58	19:37	20	18:57 (21)	20:13
13	07:33	14:32 (29)	07:02	14:51 (29)	07:14	06:17	18:38 (21)	05:31	05:10		
	16:39	57	15:29 (29)	17:21	36	15:27 (29)	18:59	19:39	17	18:55 (21)	20:15
14	07:32	14:33 (29)	07:00	14:53 (29)	07:13	06:15	18:40 (21)	05:30	05:10		
	16:40	57	15:30 (29)	17:23	31	15:24 (29)	19:01	19:40	14	18:54 (21)	20:16
15	07:32	14:32 (29)	06:59	14:56 (29)	07:11	06:14	18:43 (21)	05:29	05:10		
	16:41	58	15:30 (29)	17:24	26	15:22 (29)	19:02	19:41	7	18:50 (21)	20:17
16	07:31	14:32 (29)	06:57	14:59 (29)	07:09	06:12		05:28		05:10	
	16:42	59	15:31 (29)	17:25	20	15:19 (29)	19:03	19:42		20:18	20:45
17	07:30	14:33 (29)	06:56	15:06 (29)	07:07	06:10		05:27		05:10	
	16:44	59	15:32 (29)	17:27	7	15:13 (29)	19:05	19:44		20:19	20:45
18	07:30	14:33 (29)	06:54		07:05	06:08		05:26		05:10	
	16:45	59	15:32 (29)	17:28		19:06		19:45		20:20	20:45
19	07:29	14:33 (29)	06:52		07:03	06:07		05:25		05:10	
	16:46	59	15:32 (29)	17:30		19:07		19:46		20:21	20:46
20	07:28	14:33 (29)	06:51		07:01	06:05		05:24		05:10	
	16:47	60	15:33 (29)	17:31		19:08		19:47		20:22	20:46
21	07:28	14:34 (29)	06:49		07:00	06:03		05:23		05:10	
	16:49	60	15:34 (29)	17:32		19:10		19:49		20:24	20:46
22	07:27	14:34 (29)	06:48		06:58	06:02		05:22		05:11	
	16:50	60	15:34 (29)	17:34		19:11		19:50		20:25	20:47
23	07:26	14:34 (29)	06:46		06:56	06:00		05:21		05:11	
	16:52	60	15:34 (29)	17:35		19:12		19:51		20:26	20:47
24	07:25	14:34 (29)	06:44		06:54	05:58		05:20		05:11	
	16:53	61	15:35 (29)	17:37		19:13		19:52		20:27	20:47
25	07:24	14:34 (29)	06:43		06:52	05:57		05:19		05:11	
	16:54	61	15:35 (29)	17:38		19:15		19:54		20:28	20:47
26	07:23	14:35 (29)	06:41		06:50	05:55		05:18		05:12	
	16:56	60	15:35 (29)	17:39		19:16		19:55		20:29	20:47
27	07:22	14:35 (29)	06:39		06:48	05:54		05:18		05:12	
	16:57	60	15:35 (29)	17:41		19:17		19:56		20:30	20:47
28	07:21	14:35 (29)	06:38		06:46	05:52		05:17		05:13	
	16:58	61	15:36 (29)	17:42		19:19		19:57		20:31	20:47
29	07:20	14:36 (29)			06:45	05:51		05:16		05:13	
	17:00	60	15:36 (29)		19:20	19:59		20:32		20:47	
30	07:19	14:37 (29)			06:43	18:46 (21)	05:49	05:15		05:13	
	17:01	59	15:36 (29)		19:21	10	18:56 (21)	20:00		20:33	20:47
31	07:18	14:36 (29)			06:41	18:43 (21)		05:15			
	17:03	59	15:35 (29)		19:22	15	18:58 (21)			20:34	
Potential sun hours	286		291		369		404		459		466
Total, worst case	1767		727		25		319				
Sun reduction	0.41		0.48		0.51		0.49				
Oper. time red.	1.00		1.00		1.00		1.00				
Wind dir. red.	0.78		0.78		0.70		0.70				
Total reduction	0.32		0.37		0.36		0.34				
Total, real	563		271		9		110				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 164

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 315 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (900)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:42		06:18	18:35 (21)	06:54		06:34	14:15 (29)	07:14	14:14 (29)
	20:47	20:25		19:35	18:57 (21)	18:39		16:46	45	15:00 (29)	15:10 (29)
2	05:15	05:43		06:19	18:34 (21)	06:55		06:35		14:13 (29)	14:14 (29)
	20:47	20:24		19:33	18:58 (21)	18:37		16:45	48	15:01 (29)	15:10 (29)
3	05:15	05:44		06:20	18:33 (21)	06:56		06:37		14:13 (29)	14:15 (29)
	20:47	20:23		19:31	18:58 (21)	18:35		16:43	49	15:02 (29)	15:09 (29)
4	05:16	05:45		06:22	18:32 (21)	06:58		06:38		14:11 (29)	14:16 (29)
	20:46	20:21		19:30	18:58 (21)	18:33		16:42	51	15:02 (29)	15:10 (29)
5	05:16	05:46		06:23	18:33 (21)	06:59		06:39		14:11 (29)	14:17 (29)
	20:46	20:20		19:28	18:58 (21)	18:31		16:41	53	15:04 (29)	15:10 (29)
6	05:17	05:47		06:24	18:32 (21)	07:00		06:41		14:10 (29)	14:17 (29)
	20:46	20:19		19:26	18:58 (21)	18:29		16:39	54	15:04 (29)	15:10 (29)
7	05:18	05:48		06:25	18:32 (21)	07:01		06:42		14:10 (29)	14:18 (29)
	20:46	20:17		19:24	18:57 (21)	18:28		16:38	55	15:05 (29)	15:10 (29)
8	05:18	05:50		06:26	18:32 (21)	07:02		06:44		14:09 (29)	14:19 (29)
	20:45	20:16		19:22	18:56 (21)	18:26		16:37	56	15:05 (29)	15:11 (29)
9	05:19	05:51		06:27	18:32 (21)	07:04		06:45		14:09 (29)	14:19 (29)
	20:45	20:15		19:20	18:55 (21)	18:24		16:36	57	15:06 (29)	15:11 (29)
10	05:20	05:52		06:29	18:32 (21)	07:05		06:46		14:08 (29)	14:20 (29)
	20:44	20:13		19:18	18:54 (21)	18:22		16:35	58	15:06 (29)	15:11 (29)
11	05:21	05:53		06:30	18:33 (21)	07:06		06:48		14:08 (29)	14:21 (29)
	20:44	20:12		19:17	18:52 (21)	18:20		16:33	59	15:07 (29)	15:11 (29)
12	05:22	05:54		06:31	18:35 (21)	07:08		06:49		14:07 (29)	14:22 (29)
	20:43	20:10		19:15	18:51 (21)	18:19		16:32	60	15:07 (29)	15:12 (29)
13	05:22	05:55		06:32	18:37 (21)	07:09		06:50		14:08 (29)	14:22 (29)
	20:43	20:09		19:13	18:48 (21)	18:17		16:31	60	15:08 (29)	15:11 (29)
14	05:23	05:57		06:33		07:10		06:52		14:07 (29)	14:22 (29)
	20:42	20:07		19:11		18:15		16:30	61	15:08 (29)	15:11 (29)
15	05:24	05:58		06:35		07:11		06:53		14:08 (29)	14:23 (29)
	20:41	20:06		19:09		18:13		16:29	60	15:08 (29)	15:12 (29)
16	05:25	05:59		06:36		07:13		06:55		14:08 (29)	14:24 (29)
	20:41	20:04		19:07		18:12		16:28	60	15:08 (29)	15:12 (29)
17	05:26	06:00		06:37		07:14		06:56		14:07 (29)	14:24 (29)
	20:40	20:03		19:05		18:10		16:27	61	15:08 (29)	15:12 (29)
18	05:27	06:01		06:38		07:15		06:57		14:08 (29)	14:25 (29)
	20:39	20:01		19:03		18:08		16:26	61	15:09 (29)	15:13 (29)
19	05:28	06:03		06:39		07:17		06:59		14:08 (29)	14:26 (29)
	20:38	19:58		19:01		18:07		16:25	60	15:08 (29)	15:13 (29)
20	05:29	06:04		06:41		07:18		07:00		14:09 (29)	14:26 (29)
	20:38	19:56		19:00		18:05		16:24	60	15:09 (29)	15:13 (29)
21	05:30	06:05		06:42		07:19		07:01		14:09 (29)	14:27 (29)
	20:37	19:54		18:58		18:03		16:24	60	15:09 (29)	15:14 (29)
22	05:31	06:06		06:43		07:21		07:02		14:09 (29)	14:27 (29)
	20:36	19:53		18:56		18:02		16:23	60	15:09 (29)	15:14 (29)
23	05:32	06:07		06:44		07:22		07:04		14:10 (29)	14:28 (29)
	20:35	19:51		18:54		18:00		16:22	59	15:09 (29)	15:15 (29)
24	05:33	06:08		06:45		07:23		07:05		14:10 (29)	14:28 (29)
	20:34	19:49		18:52		17:58		16:21	59	15:09 (29)	15:15 (29)
25	05:34	06:10		06:47		07:25	15:33 (29)	07:06		14:10 (29)	14:28 (29)
	20:33	19:48		18:50		17:57	15:45 (29)	16:21	59	15:09 (29)	15:16 (29)
26	05:35	06:11		06:48		07:26	15:28 (29)	07:08		14:11 (29)	14:29 (29)
	20:32	19:46		18:48		17:55	15:49 (29)	16:20	59	15:10 (29)	15:17 (29)
27	05:36	06:12		06:49		07:27	15:25 (29)	07:09		14:11 (29)	14:29 (29)
	20:31	19:44		18:46		17:54	15:53 (29)	16:19	58	15:09 (29)	15:17 (29)
28	05:37	06:13	18:43 (21)	06:50		07:29	15:22 (29)	07:10		14:12 (29)	14:29 (29)
	20:30	19:42	8	18:51 (21)	18:44	17:52	15:54 (29)	16:19	57	15:09 (29)	15:18 (29)
29	05:38	06:14	18:41 (21)	06:51		07:30	15:20 (29)	07:11		14:13 (29)	14:29 (29)
	20:29	19:40	14	18:55 (21)	18:42	17:51	15:57 (29)	16:18	57	15:10 (29)	15:18 (29)
30	05:39	06:16	18:39 (21)	06:53		07:31	15:18 (29)	07:12		14:13 (29)	14:30 (29)
	20:28	19:39	17	18:56 (21)	18:41	17:49	15:58 (29)	16:18	57	15:10 (29)	15:19 (29)
31	05:40	06:17	18:37 (21)			07:33	15:17 (29)			07:35	14:30 (29)
	20:26	19:37	20	18:57 (21)		17:48	15:59 (29)			16:25	15:19 (29)
Potential sun hours	472	436		376		341		288		275	
Total, worst case		59		288		212		1713		1546	
Sun reduction		0.60		0.54		0.47		0.31		0.33	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.70		0.70		0.78		0.78		0.78	
Total reduction		0.42		0.38		0.37		0.24		0.26	
Total, real		25		109		77		413		397	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 165

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 317 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (902)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	07:17		06:36		15:58 (11)	06:39		05:48		05:14
	16:26	17:04		17:43	53	16:51 (11)	19:24		20:00		20:34
2	07:35	07:16		06:34		15:58 (11)	06:37		05:46		05:14
	16:27	17:06		17:45	52	16:50 (11)	19:25		20:01		20:35
3	07:35	07:15		06:32		15:59 (11)	06:35		05:45		05:13
	16:28	17:07		17:46	50	16:49 (11)	19:26		20:02		20:36
4	07:35	07:14	16:19 (11)	06:31		15:59 (11)	06:33		05:43		05:13
	16:29	17:08	12	16:31 (11)	49	16:48 (11)	19:27		20:04		20:37
5	07:35	07:12		16:14 (11)		16:00 (11)	06:32	18:51 (19)	05:42		05:12
	16:30	17:10	20	16:34 (11)	46	16:46 (11)	19:29	19:06 (19)	20:05		20:38
6	07:35	07:11		16:12 (11)		16:01 (11)	06:30	18:48 (19)	05:40		05:12
	16:31	17:11	25	16:37 (11)	45	16:46 (11)	19:30	19:07 (19)	20:06		20:39
7	07:34	07:10		16:10 (11)		16:02 (11)	06:28	18:45 (19)	05:39		05:11
	16:32	17:13	30	16:40 (11)	43	16:45 (11)	19:31	19:08 (19)	20:07		20:39
8	07:34	07:09		16:08 (11)		17:03 (11)	06:26	18:43 (19)	05:38		05:11
	16:33	17:14	33	16:41 (11)	40	17:43 (11)	19:32	19:09 (19)	20:09		20:40
9	07:34	07:07		16:07 (11)		17:05 (11)	06:24	18:41 (19)	05:36		05:11
	16:34	17:16	36	16:43 (11)	36	17:41 (11)	19:34	19:10 (19)	20:10		20:41
10	07:34	07:06		16:05 (11)		17:06 (11)	06:23	18:41 (19)	05:35		05:11
	16:35	17:17	39	16:44 (11)	33	17:39 (11)	19:35	19:12 (19)	20:11		20:41
11	07:33	07:05		16:04 (11)		17:08 (11)	06:21	18:40 (19)	05:34		05:10
	16:36	17:18	42	16:46 (11)	28	17:36 (11)	19:36	19:13 (19)	20:12		20:42
12	07:33	07:03		16:02 (11)		17:12 (11)	06:19	18:38 (19)	05:33		05:10
	16:37	17:20	45	16:47 (11)	22	17:34 (11)	19:37	19:14 (19)	20:13		20:43
13	07:33	07:02		16:02 (11)		17:17 (11)	06:17	18:37 (19)	05:31		05:10
	16:39	17:21	46	16:48 (11)	12	17:29 (11)	19:39	19:14 (19)	20:15		20:43
14	07:32	07:00		16:01 (11)		06:15		18:37 (19)	05:30		05:10
	16:40	17:23	48	16:49 (11)		19:40	38	19:15 (19)	20:16		20:44
15	07:32	06:59		16:00 (11)		06:14		18:37 (19)	05:29		05:10
	16:41	17:24	50	16:50 (11)		19:41	37	19:14 (19)	20:17		20:44
16	07:31	06:57		15:59 (11)		06:12		18:36 (19)	05:28		05:10
	16:42	17:25	51	16:50 (11)		19:43	38	19:14 (19)	20:18		20:45
17	07:31	06:56		15:59 (11)		06:10		18:36 (19)	05:27		05:10
	16:44	17:27	52	16:51 (11)		19:44	38	19:14 (19)	20:19		20:45
18	07:30	06:54		15:58 (11)		06:08		18:36 (19)	05:26		05:10
	16:45	17:28	53	16:51 (11)		19:45	38	19:14 (19)	20:20		20:45
19	07:29	06:53		15:58 (11)		06:07		18:36 (19)	05:25		05:10
	16:46	17:30	54	16:52 (11)		19:46	37	19:13 (19)	20:21		20:46
20	07:29	06:51		15:58 (11)		06:05		18:36 (19)	05:24	19:56 (18)	05:10
	16:47	17:31	54	16:52 (11)		19:48	37	19:13 (19)	20:23	19:57 (18)	20:46
21	07:28	06:49		15:57 (11)		06:03		18:36 (19)	05:23	19:54 (18)	05:10
	16:49	17:32	55	16:52 (11)		19:49	36	19:12 (19)	20:24	19:58 (18)	20:46
22	07:27	06:48		15:57 (11)		06:02		18:36 (19)	05:22	19:53 (18)	05:11
	16:50	17:34	56	16:53 (11)		19:50	35	19:11 (19)	20:25	19:59 (18)	20:47
23	07:26	06:46		15:57 (11)		06:00		18:37 (19)	05:21	19:52 (18)	05:11
	16:52	17:35	55	16:52 (11)		19:51	34	19:11 (19)	20:26	20:01 (18)	20:47
24	07:25	06:44		15:57 (11)		05:58		18:37 (19)	05:20	19:51 (18)	05:11
	16:53	17:37	55	16:52 (11)		19:53	32	19:09 (19)	20:27	20:01 (18)	20:47
25	07:24	06:43		15:57 (11)		05:57		18:39 (19)	05:19	19:51 (18)	05:11
	16:54	17:38	56	16:53 (11)		19:54	30	19:09 (19)	20:28	20:02 (18)	20:47
26	07:24	06:41		15:57 (11)		05:55		18:39 (19)	05:18	19:50 (18)	05:12
	16:56	17:39	55	16:52 (11)		19:55	28	19:07 (19)	20:29	20:03 (18)	20:47
27	07:23	06:39		15:57 (11)		05:54		18:40 (19)	05:18	19:50 (18)	05:12
	16:57	17:41	54	16:51 (11)		19:56	25	19:05 (19)	20:30	20:04 (18)	20:47
28	07:22	06:38		15:57 (11)		05:52		18:42 (19)	05:17	19:50 (18)	05:13
	16:58	17:42	54	16:51 (11)		19:58	22	19:04 (19)	20:31	20:05 (18)	20:47
29	07:21			06:45		05:51		18:44 (19)	05:16	19:49 (18)	05:13
	17:00			19:20		19:59	18	19:02 (19)	20:32	20:05 (18)	20:47
30	07:19			06:43		05:49		18:46 (19)	05:15	19:49 (18)	05:13
	17:01			19:21		20:00	13	18:59 (19)	20:33	20:07 (18)	20:47
31	07:18			06:41					05:15	19:49 (18)	
	17:03			19:22					20:34	20:07 (18)	
Potential sun hours	286	291		369		404		459		466	
Total, worst case		1130		509		785		135		738	
Sun reduction		0.48		0.51		0.49		0.56		0.59	
Oper. time red.		1.00		1.00		1.00		1.00		1.00	
Wind dir. red.		0.79		0.79		0.68		0.57		0.57	
Total reduction		0.38		0.41		0.34		0.32		0.34	
Total, real		435		208		264		44		253	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 166

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 317 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (902)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14		19:55 (18)	05:42		06:18	18:39 (19)	06:54	16:52 (11)	06:34	15:35 (11)	07:14
	20:47	25	20:20 (18)	20:25		19:35	33	19:12 (19)	18:39	19	17:11 (11)	16:46
2	05:15		19:55 (18)	05:43		06:19		18:39 (19)	06:55		16:48 (11)	06:35
	20:47	24	20:19 (18)	20:24		19:33	31	19:10 (19)	18:37	26	17:14 (11)	16:45
3	05:15		19:55 (18)	05:44		06:20		18:39 (19)	06:56		16:46 (11)	06:37
	20:47	24	20:19 (18)	20:23		19:32	29	19:08 (19)	18:35	30	17:16 (11)	16:43
4	05:16		19:55 (18)	05:45		06:22		18:40 (19)	06:58		16:43 (11)	06:38
	20:47	24	20:19 (18)	20:22		19:30	26	19:06 (19)	18:33	35	17:18 (11)	16:42
5	05:16		19:55 (18)	05:46		06:23		18:42 (19)	06:59		16:41 (11)	06:40
	20:46	24	20:19 (18)	20:20		19:28	23	19:05 (19)	18:31	38	17:19 (11)	16:41
6	05:17		19:56 (18)	05:47		06:24		18:44 (19)	07:00		16:39 (11)	06:41
	20:46	23	20:19 (18)	20:19		19:26	19	19:03 (19)	18:29	41	17:20 (11)	16:39
7	05:18		19:55 (18)	05:48		06:25		18:46 (19)	07:01		16:38 (11)	06:42
	20:46	23	20:18 (18)	20:17		19:24	15	19:01 (19)	18:28	43	17:21 (11)	16:38
8	05:18		19:56 (18)	05:50		06:26			07:03		16:36 (11)	06:44
	20:45	22	20:18 (18)	20:16		19:22			18:26	46	17:22 (11)	16:37
9	05:19		19:56 (18)	05:51		06:27			07:04		16:34 (11)	06:45
	20:45	22	20:18 (18)	20:15		19:20			18:24	48	17:22 (11)	16:36
10	05:20		19:56 (18)	05:52		06:29			07:05		16:33 (11)	06:46
	20:44	20	20:16 (18)	20:13		19:19			18:22	49	17:22 (11)	16:35
11	05:21		19:56 (18)	05:53		06:30			07:06		16:33 (11)	06:48
	20:44	20	20:16 (18)	20:12		19:17			18:20	50	17:23 (11)	16:33
12	05:22		19:57 (18)	05:54		18:58 (19)	06:31		07:08		16:31 (11)	06:49
	20:43	19	20:16 (18)	20:10	5	19:03 (19)	19:15		18:19	52	17:23 (11)	16:32
13	05:22		19:58 (18)	05:55		18:54 (19)	06:32		07:09		16:30 (11)	06:51
	20:43	18	20:16 (18)	20:09	14	19:08 (19)	19:13		18:17	53	17:23 (11)	16:31
14	05:23		19:58 (18)	05:57		18:51 (19)	06:33		07:10		16:30 (11)	06:52
	20:42	17	20:15 (18)	20:07	20	19:11 (19)	19:11		18:15	54	17:24 (11)	16:30
15	05:24		19:58 (18)	05:58		18:49 (19)	06:35		07:11		16:29 (11)	06:53
	20:42	16	20:14 (18)	20:06	23	19:12 (19)	19:09		18:13	55	17:24 (11)	16:29
16	05:25		19:58 (18)	05:59		18:47 (19)	06:36		07:13		16:28 (11)	06:55
	20:41	15	20:13 (18)	20:04	26	19:13 (19)	19:07		18:12	55	17:23 (11)	16:28
17	05:26		19:59 (18)	06:00		18:46 (19)	06:37		07:14		16:29 (11)	06:56
	20:40	14	20:13 (18)	20:03	28	19:14 (19)	19:05		18:10	55	17:24 (11)	16:27
18	05:27		20:00 (18)	06:01		18:44 (19)	06:38		07:15		16:28 (11)	06:57
	20:39	12	20:12 (18)	20:01	31	19:15 (19)	19:03		18:08	55	17:23 (11)	16:26
19	05:28		20:01 (18)	06:03		18:43 (19)	06:39		07:17		16:28 (11)	06:59
	20:39	10	20:11 (18)	19:58	32	19:15 (19)	19:01		18:07	56	17:24 (11)	16:25
20	05:29		20:01 (18)	06:04		18:42 (19)	06:41		07:18		16:28 (11)	07:00
	20:38	10	20:11 (18)	19:56	34	19:16 (19)	19:00		18:05	55	17:23 (11)	16:24
21	05:30		20:03 (18)	06:05		18:42 (19)	06:42		07:19		16:28 (11)	07:01
	20:37	7	20:10 (18)	19:54	35	19:17 (19)	18:58		18:03	54	17:22 (11)	16:24
22	05:31		20:04 (18)	06:06		18:41 (19)	06:43		07:21		16:28 (11)	07:03
	20:36	5	20:09 (18)	19:53	36	19:17 (19)	18:56		18:02	55	17:23 (11)	16:23
23	05:32		20:05 (18)	06:07		18:40 (19)	06:44		07:22		16:28 (11)	07:04
	20:35	3	20:08 (18)	19:51	37	19:17 (19)	18:54		18:00	54	17:22 (11)	16:22
24	05:33			06:09		18:39 (19)	06:45		07:23		16:29 (11)	07:05
	20:34			19:49	38	19:17 (19)	18:52		17:58	53	17:22 (11)	16:21
25	05:34			06:10		18:39 (19)	06:47		07:25		16:29 (11)	07:06
	20:33			19:48	38	19:17 (19)	18:50		17:57	52	17:21 (11)	16:21
26	05:35			06:11		18:38 (19)	06:48		07:26		16:29 (11)	07:08
	20:32			19:46	38	19:16 (19)	18:48		17:55	51	17:20 (11)	16:20
27	05:36			06:12		18:38 (19)	06:49		07:27		16:30 (11)	07:09
	20:31			19:44	38	19:16 (19)	18:46		17:54	49	17:19 (11)	16:19
28	05:37			06:13		18:39 (19)	06:50		07:29		16:30 (11)	07:10
	20:30			19:42	37	19:16 (19)	18:44		17:52	48	17:18 (11)	16:19
29	05:38			06:14		18:38 (19)	06:51		07:30		16:32 (11)	07:11
	20:29			19:41	37	19:15 (19)	18:43		17:51	46	17:18 (11)	16:18
30	05:39			06:16		18:38 (19)	06:53		17:00 (11)	07:31	16:32 (11)	07:12
	20:28			19:39	37	19:15 (19)	18:41	4	17:04 (11)	17:49	44	17:16 (11)
31	05:40			06:17		18:38 (19)			07:33		16:34 (11)	
	20:26			19:37	36	19:14 (19)			17:48	42	17:16 (11)	
Potential sun hours	472			436		376		341		288		275
Total, worst case		397		620		180		1463		192		
Sun reduction		0.64		0.60		0.54		0.47		0.31		
Oper. time red.		1.00		1.00		1.00		1.00		1.00		
Wind dir. red.		0.57		0.68		0.68		0.79		0.79		
Total reduction		0.37		0.41		0.37		0.38		0.25		
Total, real		147		255		67		551		48		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 167

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 325 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (910)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:07 (17)	07:17	15:07 (17)	06:36	07:45 (23)	06:39		05:48	18:18 (16)	05:14
	16:26	43	15:50 (17)	17:04	63	16:10 (17)	17:44		20:00	19:17 (16)	20:35
2	07:35		15:07 (17)	07:16		15:07 (17)	06:34		05:46	18:17 (16)	05:14
	16:27	44	15:51 (17)	17:06	63	16:10 (17)	17:45		20:01	19:16 (16)	20:35
3	07:35		15:06 (17)	07:15		07:42 (23)	06:33		05:45	18:18 (16)	05:13
	16:28	45	15:51 (17)	17:07	73	16:11 (17)	17:46		20:03	19:16 (16)	20:36
4	07:35		15:06 (17)	07:14		07:39 (23)	06:31		05:43	18:19 (16)	05:13
	16:29	46	15:52 (17)	17:08	80	16:11 (17)	17:48	19	19:03 (16)	19:15 (16)	20:37
5	07:35		15:07 (17)	07:13		07:36 (23)	06:29		05:42	18:19 (16)	05:12
	16:30	46	15:53 (17)	17:10	83	16:10 (17)	17:49	27	19:06 (16)	19:14 (16)	20:38
6	07:35		15:07 (17)	07:11		07:35 (23)	06:27		05:40	18:20 (16)	05:12
	16:31	47	15:54 (17)	17:11	85	16:10 (17)	17:50	31	19:07 (16)	19:14 (16)	20:39
7	07:34		15:07 (17)	07:10		07:34 (23)	06:25		05:39	18:21 (16)	05:12
	16:32	48	15:55 (17)	17:13	87	16:10 (17)	17:52	35	19:08 (16)	19:13 (16)	20:39
8	07:34		15:06 (17)	07:09		07:33 (23)	07:24		05:38	05:59 (21)	05:11
	16:33	49	15:55 (17)	17:14	88	16:09 (17)	18:53	38	19:09 (16)	19:12 (16)	20:40
9	07:34		15:06 (17)	07:07		07:32 (23)	07:22		05:36	05:58 (21)	05:11
	16:34	51	15:57 (17)	17:16	89	16:09 (17)	18:54	41	19:11 (16)	19:11 (16)	20:41
10	07:34		15:07 (17)	07:06		07:31 (23)	07:20		05:35	05:57 (21)	05:11
	16:35	51	15:58 (17)	17:17	89	16:08 (17)	18:56	44	19:12 (16)	19:11 (16)	20:41
11	07:33		15:06 (17)	07:05		07:30 (23)	07:18		05:34	05:56 (21)	05:10
	16:36	52	15:58 (17)	17:18	91	16:08 (17)	18:57	47	19:13 (16)	19:10 (16)	20:42
12	07:33		15:07 (17)	07:03		07:29 (23)	07:16		05:33	05:54 (21)	05:10
	16:37	53	16:00 (17)	17:20	90	16:07 (17)	18:58	49	19:14 (16)	19:08 (16)	20:43
13	07:33		15:06 (17)	07:02		07:29 (23)	07:14		05:31	05:53 (21)	05:10
	16:39	54	16:00 (17)	17:21	89	16:06 (17)	18:59	52	19:16 (16)	19:07 (16)	20:43
14	07:32		15:06 (17)	07:00		07:29 (23)	07:13		05:30	05:52 (21)	05:10
	16:40	55	16:01 (17)	17:23	86	16:05 (17)	19:01	54	19:17 (16)	19:06 (16)	20:44
15	07:32		15:06 (17)	06:59		07:29 (23)	07:11		05:29	05:51 (21)	05:10
	16:41	56	16:02 (17)	17:24	85	16:05 (17)	19:02	57	19:18 (16)	19:05 (16)	20:44
16	07:31		15:05 (17)	06:57		07:28 (23)	07:09		05:28	05:50 (21)	05:10
	16:42	57	16:02 (17)	17:26	84	16:03 (17)	19:03	58	19:18 (16)	19:04 (16)	20:45
17	07:31		15:06 (17)	06:56		07:29 (23)	07:07		05:27	05:49 (21)	05:10
	16:44	58	16:04 (17)	17:27	79	16:02 (17)	19:05	59	19:19 (16)	19:03 (16)	20:45
18	07:30		15:06 (17)	06:54		07:29 (23)	07:05		05:26	05:48 (21)	05:10
	16:45	58	16:04 (17)	17:28	76	16:00 (17)	19:06	60	19:19 (16)	19:01 (16)	20:45
19	07:29		15:05 (17)	06:53		07:29 (23)	07:03		05:25	05:47 (21)	05:10
	16:46	59	16:04 (17)	17:30	72	15:59 (17)	19:07	61	19:19 (16)	18:59 (16)	20:46
20	07:29		15:05 (17)	06:51		07:29 (23)	07:02		05:24	05:46 (21)	05:10
	16:48	60	16:05 (17)	17:31	66	15:56 (17)	19:08	61	19:19 (16)	18:57 (16)	20:46
21	07:28		15:06 (17)	06:49		07:29 (23)	07:00		05:23	05:45 (21)	05:10
	16:49	60	16:06 (17)	17:33	60	15:53 (17)	19:10	61	19:19 (16)	18:55 (16)	20:46
22	07:27		15:06 (17)	06:48		07:31 (23)	06:58		05:22	05:45 (21)	05:11
	16:50	61	16:07 (17)	17:34	50	15:50 (17)	19:11	62	19:19 (16)	18:52 (16)	20:47
23	07:26		15:06 (17)	06:46		07:31 (23)	06:56		05:21	05:44 (21)	05:11
	16:52	61	16:07 (17)	17:35	32	08:03 (23)	19:12	62	19:19 (16)	05:48 (21)	20:47
24	07:25		15:06 (17)	06:44		07:31 (23)	06:54		05:20	05:43 (21)	05:11
	16:53	62	16:08 (17)	17:37	30	08:01 (23)	19:14	62	19:19 (16)	06:07 (21)	20:47
25	07:24		15:06 (17)	06:43		07:33 (23)	06:52		05:19	05:42 (21)	05:11
	16:54	62	16:08 (17)	17:38	28	08:01 (23)	19:15	62	19:19 (16)	06:07 (21)	20:47
26	07:24		15:06 (17)	06:41		07:34 (23)	06:50		05:18	05:41 (21)	05:12
	16:56	63	16:09 (17)	17:39	25	07:59 (23)	19:16	61	19:18 (16)	06:07 (21)	20:47
27	07:23		15:06 (17)	06:39		07:36 (23)	06:48		05:18	05:42 (21)	05:12
	16:57	63	16:09 (17)	17:41	20	07:56 (23)	19:17	62	19:19 (16)	06:07 (21)	20:47
28	07:22		15:06 (17)	06:38		07:38 (23)	06:47		05:17	05:42 (21)	05:13
	16:59	63	16:09 (17)	17:42	15	07:53 (23)	19:19	61	19:18 (16)	06:07 (21)	20:47
29	07:21		15:06 (17)			06:45			05:16	05:42 (21)	05:13
	17:00	64	16:10 (17)			19:20			05:15	06:06 (21)	20:47
30	07:20		15:07 (17)			06:43			05:16	05:43 (21)	05:14
	17:01	63	16:10 (17)			19:21			05:15	06:06 (21)	20:47
31	07:18		15:06 (17)			06:41			05:15	05:43 (21)	
	17:03	64	16:10 (17)			19:22			20:34	06:06 (21)	
Potential sun hours	286		291		369		404		459		466
Total, worst case	1718		1878		2		1407		1347		179
Sun reduction	0.41		0.48		0.51		0.49		0.56		0.59
Oper. time red.	1.00		1.00		1.00		1.00		1.00		1.00
Wind dir. red.	0.79		0.71		0.58		0.67		0.71		0.79
Total reduction	0.33		0.34		0.30		0.33		0.40		0.47
Total, real	562		642		1		467		540		84

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker		(WTG causing flicker first time)	
	Sun set (hh:mm)		Last time (hh:mm) with flicker		(WTG causing flicker last time)	
		Minutes with flicker				

Project:

Jericho_SFA_2015_08_28

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Licensed user:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 325 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (910)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14	05:58 (21)	05:42	06:05 (21)	06:18	18:25 (16)	06:54	06:34	07:01 (23)	07:14	14:48 (17)
2	05:15	05:56 (21)	05:43	06:06 (21)	06:19	18:26 (16)	06:55	06:35	07:02 (23)	07:15	14:49 (17)
3	05:15	05:56 (21)	05:44	06:08 (21)	06:20	18:27 (16)	06:56	06:37	07:02 (23)	07:16	14:50 (17)
4	05:16	05:57 (21)	05:45	06:09 (21)	06:22	18:29 (16)	06:58	06:38	07:03 (23)	07:17	14:51 (17)
5	05:16	05:57 (21)	05:46	06:10 (21)	06:23	18:30 (16)	06:59	06:40	07:05 (23)	07:18	14:52 (17)
6	05:17	05:58 (21)	05:47	06:11 (21)	06:24	18:31 (16)	07:00	06:41	07:06 (23)	07:19	14:53 (17)
7	05:18	05:59 (21)	05:48	06:12 (21)	06:25	18:32 (16)	07:01	06:42	07:07 (23)	07:20	14:54 (17)
8	05:19	05:59 (21)	05:50	06:13 (21)	06:26	18:33 (16)	07:02	06:43	07:08 (23)	07:21	14:55 (17)
9	05:19	05:59 (21)	05:51	06:14 (21)	06:27	18:34 (16)	07:03	06:44	07:09 (23)	07:22	14:56 (17)
10	05:20	05:59 (21)	05:52	06:15 (21)	06:28	18:35 (16)	07:04	06:45	07:10 (23)	07:23	14:57 (17)
11	05:21	05:59 (21)	05:53	06:16 (21)	06:29	18:36 (16)	07:05	06:46	07:11 (23)	07:24	14:58 (17)
12	05:22	05:59 (21)	05:54	06:17 (21)	06:30	18:37 (16)	07:06	06:47	07:12 (23)	07:25	14:59 (17)
13	05:22	05:59 (21)	05:56	06:18 (21)	06:31	18:38 (16)	07:07	06:48	07:13 (23)	07:26	15:00 (17)
14	05:23	05:59 (21)	05:57	06:19 (21)	06:32	18:39 (16)	07:08	06:49	07:14 (23)	07:27	15:01 (17)
15	05:24	05:59 (21)	05:58	06:20 (21)	06:33	18:40 (16)	07:09	06:50	07:15 (23)	07:28	15:02 (17)
16	05:25	05:59 (21)	05:59	06:21 (21)	06:34	18:41 (16)	07:10	06:51	07:16 (23)	07:29	15:03 (17)
17	05:26	05:59 (21)	06:00	06:22 (21)	06:35	18:42 (16)	07:11	06:52	07:17 (23)	07:30	15:04 (17)
18	05:27	05:59 (21)	06:01	06:23 (21)	06:36	18:43 (16)	07:12	06:53	07:18 (23)	07:31	15:05 (17)
19	05:28	05:59 (21)	06:03	06:24 (21)	06:37	18:44 (16)	07:13	06:54	07:19 (23)	07:32	15:06 (17)
20	05:29	05:59 (21)	06:04	06:25 (21)	06:38	18:45 (16)	07:14	06:55	07:20 (23)	07:33	15:07 (17)
21	05:30	05:59 (21)	06:05	06:26 (21)	06:39	18:46 (16)	07:15	06:56	07:21 (23)	07:34	15:08 (17)
22	05:31	05:59 (21)	06:06	06:27 (21)	06:40	18:47 (16)	07:16	06:57	07:22 (23)	07:35	15:09 (17)
23	05:32	05:59 (21)	06:07	06:28 (21)	06:41	18:48 (16)	07:17	06:58	07:23 (23)	07:36	15:10 (17)
24	05:33	05:59 (21)	06:09	06:29 (21)	06:42	18:49 (16)	07:18	06:59	07:24 (23)	07:37	15:11 (17)
25	05:34	05:59 (21)	06:10	06:30 (21)	06:43	18:50 (16)	07:19	07:00	07:25 (23)	07:38	15:12 (17)
26	05:35	05:59 (21)	06:11	06:31 (21)	06:44	18:51 (16)	07:20	07:01	07:26 (23)	07:39	15:13 (17)
27	05:36	05:59 (21)	06:12	06:32 (21)	06:45	18:52 (16)	07:21	07:02	07:27 (23)	07:40	15:14 (17)
28	05:37	05:59 (21)	06:13	06:33 (21)	06:46	18:53 (16)	07:22	07:03	07:28 (23)	07:41	15:15 (17)
29	05:38	05:59 (21)	06:15	06:34 (21)	06:47	18:54 (16)	07:23	07:04	07:29 (23)	07:42	15:16 (17)
30	05:39	05:59 (21)	06:16	06:35 (21)	06:48	18:55 (16)	07:24	07:05	07:30 (23)	07:43	15:17 (17)
31	05:41	05:59 (21)	06:17	06:36 (21)	06:49	18:56 (16)	07:25	07:06	07:31 (23)	07:44	15:18 (17)
Potential sun hours	472	436	376	341	288	275	1995	1314	881	604	426
Total, worst case	881	1790	285	1112	695	481	1995	1314	881	604	426
Sun reduction	0.64	0.60	0.54	0.47	0.31	0.26	0.64	0.60	0.54	0.47	0.31
Oper. time red.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Wind dir. red.	0.75	0.67	0.67	0.68	0.77	0.79	0.75	0.79	0.75	0.79	0.75
Total reduction	0.48	0.41	0.37	0.32	0.24	0.26	0.48	0.41	0.37	0.32	0.26
Total, real	426	730	104	358	481	346	1995	1314	881	604	426

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 169

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 329 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (914)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:35	07:17	06:36	06:39	05:48	05:14	05:58 (22)	05:42	06:03 (22)	05:42	06:15 (22)	06:18
	16:26	17:04	17:44	19:24	20:00	20:35	07:03 (22)	20:47	07:09 (22)	20:25	07:03 (22)	18:39
2	07:35	07:16	06:34	06:37	05:46	05:14	05:57 (22)	05:45	06:03 (22)	05:43	06:16 (22)	06:19
	16:27	17:06	17:45	19:25	20:01	20:35	07:02 (22)	20:47	07:09 (22)	20:24	07:02 (22)	18:37
3	07:35	07:15	06:33	06:35	05:45	05:13	05:58 (22)	05:45	06:04 (22)	05:44	06:18 (22)	06:21
	16:28	17:07	17:46	19:26	20:03	20:36	07:03 (22)	20:47	07:09 (22)	20:23	07:01 (22)	18:32
4	07:35	07:14	06:31	06:34	05:43	05:13	05:57 (22)	05:46	06:03 (22)	05:45	06:19 (22)	06:22
	16:29	17:08	17:48	19:28	20:04	20:37	07:02 (22)	20:47	07:09 (22)	20:22	07:00 (22)	18:30
5	07:35	07:13	06:29	06:32	05:42	05:12	05:58 (22)	05:46	06:04 (22)	05:46	06:20 (22)	06:23
	16:30	17:10	17:49	19:29	20:05	20:38	07:03 (22)	20:46	07:09 (22)	20:20	06:58 (22)	18:28
6	07:35	07:11	06:27	06:30	05:40	05:12	05:58 (22)	05:47	06:04 (22)	05:47	06:22 (22)	06:24
	16:31	17:11	17:50	19:30	20:06	20:39	07:04 (22)	20:46	07:10 (22)	20:19	06:56 (22)	18:26
7	07:35	07:10	06:25	06:28	05:39	05:12	05:58 (22)	05:48	06:04 (22)	05:49	06:24 (22)	06:25
	16:32	17:13	17:52	19:31	20:08	20:40	07:03 (22)	20:46	07:09 (22)	20:18	06:54 (22)	18:24
8	07:34	07:09	07:24	06:26	05:38	05:11	05:58 (22)	05:49	06:04 (22)	05:50	06:26 (22)	06:26
	16:33	17:14	18:53	19:33	20:09	20:40	07:04 (22)	20:45	07:10 (22)	20:16	06:52 (22)	18:22
9	07:34	07:07	07:22	06:24	05:36	05:11	05:58 (22)	05:49	06:05 (22)	05:51	06:29 (22)	06:28
	16:34	17:16	18:54	19:34	20:10	20:41	07:04 (22)	20:45	07:10 (22)	20:15	06:48 (22)	18:20
10	07:34	07:06	07:20	06:23	05:35	05:11	05:59 (22)	05:20	06:05 (22)	05:52	06:34 (22)	06:29
	16:35	17:17	18:56	19:35	20:11	20:41	07:04 (22)	20:44	07:11 (22)	20:13	06:42 (22)	18:19
11	07:34	07:05	07:18	06:21	05:34	05:10	05:59 (22)	05:21	06:05 (22)	05:53	06:30 (22)	06:29
	16:36	17:19	18:57	19:36	20:12	20:42	07:05 (22)	20:44	07:11 (22)	20:12	06:40 (22)	18:17
12	07:33	07:03	07:16	06:19	05:33	05:10	05:58 (22)	05:22	06:05 (22)	05:54	06:31 (22)	06:28
	16:37	17:20	18:58	19:38	20:14	20:43	07:04 (22)	20:43	07:10 (22)	20:10	06:40 (22)	18:15
13	07:33	07:02	07:15	06:17	05:31	05:10	05:59 (22)	05:22	06:06 (22)	05:56	06:32 (22)	06:29
	16:39	17:21	19:00	19:39	20:15	20:43	07:04 (22)	20:43	07:10 (22)	20:09	06:40 (22)	18:13
14	07:32	07:00	07:13	06:16	05:30	05:10	05:59 (22)	05:23	06:06 (22)	05:57	06:34 (22)	06:28
	16:40	17:23	19:01	19:40	20:16	20:44	07:05 (22)	20:42	07:11 (22)	20:07	06:40 (22)	18:11
15	07:32	06:59	07:11	06:14	05:29	05:10	05:59 (22)	05:24	06:07 (22)	05:58	06:35 (22)	06:27
	16:41	17:24	19:02	19:41	20:17	20:44	07:05 (22)	20:42	07:11 (22)	20:06	06:40 (22)	18:09
16	07:31	06:57	07:09	06:12	05:28	05:10	05:59 (22)	05:25	06:06 (22)	05:59	06:36 (22)	06:26
	16:42	17:26	19:03	19:43	20:18	20:45	07:05 (22)	20:41	07:10 (22)	20:04	06:40 (22)	18:07
17	07:31	06:56	07:07	06:10	05:27	05:10	06:00 (22)	05:26	06:06 (22)	06:00	06:37 (22)	06:25
	16:44	17:27	19:05	19:44	20:19	20:45	07:05 (22)	20:40	07:10 (22)	20:03	06:40 (22)	18:05
18	07:30	06:54	07:05	06:09	05:26	05:10	06:00 (22)	05:27	06:07 (22)	06:01	06:38 (22)	06:24
	16:45	17:28	19:06	19:45	20:20	20:46	07:05 (22)	20:39	07:10 (22)	20:01	06:40 (22)	18:03
19	07:29	06:53	07:03	06:07	05:25	05:10	06:01 (22)	05:28	06:07 (22)	06:03	06:39 (22)	06:23
	16:46	17:30	19:07	19:46	20:22	20:46	07:06 (22)	20:39	07:10 (22)	19:58	06:40 (22)	18:01
20	07:29	06:51	07:02	06:05	05:24	05:10	06:01 (22)	05:29	06:08 (22)	06:04	06:41 (22)	06:21
	16:48	17:31	19:09	19:48	20:23	20:46	07:06 (22)	20:38	07:10 (22)	19:56	06:40 (22)	18:00
21	07:28	06:49	07:00	06:04	05:23	05:10	06:01 (22)	05:30	06:08 (22)	06:05	06:42 (22)	06:19
	16:49	17:33	19:10	19:49	20:24	20:46	07:06 (22)	20:37	07:10 (22)	19:55	06:40 (22)	18:00
22	07:27	06:48	06:58	06:02	05:22	05:11	06:01 (22)	05:31	06:09 (22)	06:06	06:43 (22)	06:18
	16:50	17:34	19:11	19:50	20:25	20:47	07:06 (22)	20:36	07:09 (22)	19:53	06:40 (22)	18:00
23	07:26	06:46	06:56	06:00	05:21	05:11	06:01 (22)	05:32	06:09 (22)	06:07	06:44 (22)	06:17
	16:52	17:35	19:12	19:51	20:26	20:47	07:06 (22)	20:35	07:09 (22)	19:51	06:40 (22)	18:00
24	07:25	06:45	06:54	05:59	05:20	05:11	06:02 (22)	05:33	06:10 (22)	06:09	06:45 (22)	06:15
	16:53	17:37	19:14	19:53	20:27	20:47	07:07 (22)	20:34	07:09 (22)	19:49	06:40 (22)	18:00
25	07:25	06:43	06:52	05:57	05:19	05:11	06:02 (22)	05:34	06:10 (22)	06:10	06:47 (22)	06:13
	16:54	17:38	19:15	19:54	20:28	20:47	07:07 (22)	20:33	07:08 (22)	19:48	06:40 (22)	18:00
26	07:24	06:41	06:50	05:55	05:18	05:12	06:01 (22)	05:35	06:11 (22)	06:11	06:48 (22)	06:11
	16:56	17:39	19:16	19:55	20:29	20:47	07:07 (22)	20:32	07:08 (22)	19:46	06:40 (22)	18:00
27	07:23	06:39	06:48	05:54	05:18	05:12	06:02 (22)	05:36	06:11 (22)	06:12	06:49 (22)	06:10
	16:57	17:41	19:17	19:56	20:30	20:47	07:01 (22)	20:31	07:07 (22)	19:44	06:40 (22)	18:00
28	07:22	06:38	06:47	05:52	05:17	05:13	06:02 (22)	05:37	06:12 (22)	06:13	06:50 (22)	06:09
	16:59	17:42	19:19	19:58	20:31	20:47	07:01 (22)	20:30	07:07 (22)	19:42	06:40 (22)	18:00
29	07:21		06:45	05:51	05:16	05:13	06:03 (22)	05:38	06:12 (22)	06:15	06:52 (22)	06:07
	17:00		19:20	19:59	20:32	20:47	07:01 (22)	20:29	07:06 (22)	19:41	06:40 (22)	18:00
30	07:20		06:43	05:49	05:16	05:14	06:03 (22)	05:39	06:13 (22)	06:16	06:53 (22)	06:06
	17:01		19:21	20:00	20:33	20:47	07:02 (22)	20:28	07:05 (22)	19:39	06:40 (22)	18:00
31	07:18		06:41		05:15	05:17	07:08 (22)	20:27	06:14 (22)	06:17	06:53 (22)	06:05
	17:03		19:22		20:34	20:47	07:02 (22)	20:27	07:04 (22)	19:37	06:40 (22)	18:00
Potential sun hours	286	291	369	404	459	466	472	436	376	341	288	275
Total, worst case					1488	1961	1918	333				
Sun reduction					0.56	0.59	0.64	0.60				
Oper. time red.					1.00	1.00	1.00	1.00				
Wind dir. red.					0.78	0.78	0.78	0.78				
Total reduction					0.44	0.46	0.50	0.47				
Total, real					653	907	962	157				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 170

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 471 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (952)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	07:17	15:31 (3)	06:36	15:27 (3)	06:39		05:48		18:41 (27)	05:14
	16:26	17:04	45	16:16 (3)	17:44	56	16:23 (3)	19:24	45	19:26 (27)	20:35
2	07:35	07:16	15:30 (3)	06:34	15:28 (3)	06:37		05:46		18:41 (27)	05:14
	16:27	17:06	47	16:17 (3)	17:45	54	16:22 (3)	19:25	45	19:26 (27)	20:36
3	07:35	07:15	15:30 (3)	06:33	15:28 (3)	06:35		05:45		18:41 (27)	05:13
	16:28	17:07	49	16:19 (3)	17:46	52	16:20 (3)	19:26	45	19:26 (27)	20:36
4	07:35	07:14	15:29 (3)	06:31	15:29 (3)	06:34		05:43		18:41 (27)	05:13
	16:29	17:08	51	16:20 (3)	17:48	50	16:19 (3)	19:28	44	19:25 (27)	20:37
5	07:35	07:13	15:27 (3)	06:29	15:32 (3)	06:32		05:42		18:41 (27)	05:12
	16:30	17:10	54	16:21 (3)	17:49	46	16:18 (3)	19:29	44	19:25 (27)	20:38
6	07:35	07:11	15:27 (3)	06:27	15:33 (3)	06:30		05:40		18:42 (27)	05:12
	16:31	17:11	55	16:22 (3)	17:50	43	16:16 (3)	19:30	43	19:25 (27)	20:39
7	07:35	07:10	15:27 (3)	06:25	15:34 (3)	06:28		05:39		18:41 (27)	05:11
	16:32	17:13	56	16:23 (3)	17:52	40	16:14 (3)	19:31	43	19:24 (27)	20:40
8	07:34	07:09	15:25 (3)	07:24	16:36 (3)	06:26		05:38		18:42 (27)	05:11
	16:33	17:14	58	16:23 (3)	18:53	36	17:12 (3)	19:33	41	19:23 (27)	20:40
9	07:34	07:07	15:25 (3)	07:22	16:39 (3)	06:24		05:36		18:43 (27)	05:11
	16:34	17:16	60	16:25 (3)	18:54	30	17:09 (3)	19:34	40	19:23 (27)	20:41
10	07:34	07:06	15:24 (3)	07:20	16:41 (3)	06:23		05:35		18:44 (27)	05:11
	16:35	17:17	61	16:25 (3)	18:56	25	17:06 (3)	19:35	39	19:23 (27)	20:42
11	07:34	07:05	15:24 (3)	07:18	16:47 (3)	06:21		05:34		18:45 (27)	05:10
	16:36	17:18	62	16:26 (3)	18:57	15	17:02 (3)	19:36	37	19:22 (27)	20:42
12	07:33	07:03	15:24 (3)	07:16	06:19			05:33		18:45 (27)	05:10
	16:37	17:20	63	16:27 (3)	18:58			05:31		19:20 (27)	20:43
13	07:33	07:02	15:23 (3)	07:15	06:17			05:31		18:46 (27)	05:10
	16:39	17:21	64	16:27 (3)	18:59			05:30		19:20 (27)	20:43
14	07:32	07:00	15:24 (3)	07:13	06:15		19:04 (27)	05:30		18:47 (27)	05:10
	16:40	17:23	63	16:27 (3)	19:01		19:40	20:16	32	19:19 (27)	20:44
15	07:32	06:59	15:23 (3)	07:11	06:14		18:58 (27)	05:29		18:48 (27)	05:10
	16:41	17:24	64	16:27 (3)	19:02		19:41	20:17	30	19:18 (27)	20:44
16	07:31	06:57	15:22 (3)	07:09	06:12		18:55 (27)	05:28		18:49 (27)	05:10
	16:42	17:26	65	16:27 (3)	19:03		19:43	20:18	28	19:17 (27)	20:45
17	07:31	06:56	15:23 (3)	07:07	06:10		18:53 (27)	05:27		18:50 (27)	05:10
	16:44	17:27	65	16:28 (3)	19:05		19:44	20:19	26	19:16 (27)	20:45
18	07:30	06:54	15:22 (3)	07:05	06:09		18:51 (27)	05:26		18:52 (27)	05:10
	16:45	17:28	65	16:27 (3)	19:06		19:45	20:20	22	19:14 (27)	20:46
19	07:29	06:53	15:23 (3)	07:03	06:07		18:49 (27)	05:25		18:53 (27)	05:10
	16:46	17:30	65	16:28 (3)	19:07		19:46	20:22	20	19:13 (27)	20:46
20	07:29	06:51	15:23 (3)	07:02	06:05		18:48 (27)	05:24		18:55 (27)	05:10
	16:47	17:31	64	16:27 (3)	19:09		19:48	20:23	16	19:11 (27)	20:46
21	07:28	06:49	15:23 (3)	07:00	06:03		18:46 (27)	05:23		18:58 (27)	05:10
	16:49	17:33	64	16:27 (3)	19:10		19:49	20:24	10	19:08 (27)	20:47
22	07:27	06:48	15:23 (3)	06:58	06:02		18:45 (27)	05:22			05:11
	16:50	17:34	64	16:27 (3)	19:11		19:50	20:25	39	19:24 (27)	20:47
23	07:26	06:46	15:23 (3)	06:56	06:00		18:45 (27)	05:21			05:11
	16:52	17:35	64	16:27 (3)	19:12		19:51	20:26	40	19:25 (27)	20:47
24	07:25	15:50 (3)	06:45	15:23 (3)	06:54		05:59	18:43 (27)	05:20		05:11
	16:53	4	15:54 (3)	17:37	16:26 (3)	19:14	19:53	19:25 (27)	20:27		20:47
25	07:25	15:44 (3)	06:43	15:25 (3)	06:52		05:57	18:43 (27)	05:19		05:11
	16:54	17	16:01 (3)	17:38	16:26 (3)	19:15	19:54	19:26 (27)	20:28		20:47
26	07:24	15:41 (3)	06:41	15:25 (3)	06:50		05:55	18:42 (27)	05:18		05:12
	16:56	23	16:04 (3)	17:39	16:25 (3)	19:16	19:55	19:26 (27)	20:29		20:47
27	07:23	15:39 (3)	06:39	15:25 (3)	06:48		05:54	18:42 (27)	05:18		05:12
	16:57	28	16:07 (3)	17:41	16:24 (3)	19:17	19:56	19:27 (27)	20:30		20:47
28	07:22	15:37 (3)	06:38	15:25 (3)	06:47		05:52	18:41 (27)	05:17		05:12
	16:58	32	16:09 (3)	17:42	16:23 (3)	19:19	19:58	19:26 (27)	20:31		20:47
29	07:21	15:35 (3)		06:45			05:51	18:42 (27)	05:16		05:13
	17:00	36	16:11 (3)	19:20			19:59	19:27 (27)	20:32		20:47
30	07:20	15:34 (3)		06:43			05:49	18:41 (27)	05:15		05:13
	17:01	39	16:13 (3)	19:21			20:00	19:26 (27)	20:33		20:47
31	07:19	15:33 (3)		06:41					05:15		
	17:03	42	16:15 (3)	19:22					20:34		
Potential sun hours	286		291	369		404		459		466	
Total, worst case		221		1669		447		597		719	
Sun reduction	0.41			0.48		0.51		0.49		0.56	
Oper. time red.	1.00			1.00		1.00		1.00		1.00	
Wind dir. red.	0.79			0.79		0.79		0.64		0.64	
Total reduction	0.33			0.38		0.41		0.32		0.37	
Total, real	73			642		183		191		263	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 171

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 471 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (952)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 20:47	05:42 20:25	18:55 (27) 19:31 (27)	06:18 19:35	06:54 18:39	06:34 16:46
2	05:14 20:47	05:43 20:24	18:54 (27) 19:32 (27)	06:19 19:33	06:55 18:37	16:46 16:37 (3)
3	05:15 20:47	05:44 20:23	18:53 (27) 19:32 (27)	06:20 19:32	06:56 18:35	16:36 16:43 (3)
4	05:16 20:47	05:45 20:22	18:53 (27) 19:34 (27)	06:22 19:30	06:58 18:33	16:38 16:46 (3)
5	05:16 20:46	05:46 20:20	18:53 (27) 19:34 (27)	06:23 19:28	06:59 18:31	16:40 16:48 (3)
6	05:17 20:46	05:47 20:19	18:52 (27) 19:34 (27)	06:24 19:26	07:00 18:30	16:41 16:49 (3)
7	05:18 20:46	05:48 20:18	18:51 (27) 19:34 (27)	06:25 19:24	07:01 18:28	16:42 16:51 (3)
8	05:18 20:45	05:50 20:16	18:51 (27) 19:35 (27)	06:26 19:22	07:03 18:26	16:44 16:52 (3)
9	05:19 20:45	05:51 20:15	18:50 (27) 19:35 (27)	06:28 19:20	07:04 18:24	16:45 16:53 (3)
10	05:20 20:45	05:52 20:13	18:50 (27) 19:34 (27)	06:29 19:19	07:05 18:22	16:46 16:55 (3)
11	05:21 20:44	05:53 20:12	18:49 (27) 19:34 (27)	06:30 19:17	07:06 18:20	16:47 16:55 (3)
12	05:22 20:44	05:54 20:10	18:49 (27) 19:34 (27)	06:31 19:15	07:08 18:19	16:49 16:55 (3)
13	05:22 20:43	05:55 20:09	18:50 (27) 19:35 (27)	06:32 19:13	07:09 18:17	16:51 16:57 (3)
14	05:23 20:42	05:57 20:07	18:49 (27) 19:34 (27)	06:33 19:11	07:10 18:15	16:52 16:58 (3)
15	05:24 20:42	05:58 20:06	18:49 (27) 19:34 (27)	06:35 19:09	07:12 18:13	16:53 16:57 (3)
16	05:25 20:41	05:59 20:04	18:49 (27) 19:33 (27)	06:36 19:07	07:13 18:12	16:55 16:58 (3)
17	05:26 20:40	06:00 20:03	18:49 (27) 19:33 (27)	06:37 19:05	07:14 18:10	16:56 16:58 (3)
18	05:27 20:40	06:01 20:01	18:49 (27) 19:32 (27)	06:38 19:03	07:15 18:08	16:57 16:57 (3)
19	05:28 20:39	06:03 20:00	18:49 (27) 19:31 (27)	06:39 19:02	07:17 18:07	16:59 16:58 (3)
20	05:29 20:38	06:04 19:56	18:49 (27) 19:30 (27)	06:41 19:00	07:18 18:05	17:00 16:58 (3)
21	05:30 20:37	06:05 19:55	18:51 (27) 19:30 (27)	06:42 18:58	07:19 18:03	17:01 16:57 (3)
22	05:31 20:36	19:13 (27) 19:14 (27)	06:06 19:53	06:43 18:56	07:21 18:02	17:03 16:58 (3)
23	05:32 20:35	1 19:07 (27)	19:53 19:51	18:57 18:54	07:22 18:00	16:23 16:57 (3)
24	05:33 20:34	13 19:05 (27)	06:07 19:49	06:44 18:52	07:23 17:58	17:04 16:58 (3)
25	05:34 20:33	17 19:22 (27)	06:09 19:48	06:45 18:50	07:25 17:57	17:05 16:57 (3)
26	05:35 20:32	21 19:03 (27)	06:10 19:48	06:47 18:50	07:26 17:55	17:07 16:58 (3)
27	05:36 20:31	24 19:02 (27)	06:11 19:46	06:48 18:48	07:26 17:55	17:08 16:58 (3)
28	05:37 20:30	27 19:27 (27)	06:12 19:44	06:49 18:46	07:27 17:54	17:09 16:57 (3)
29	05:38 20:29	28 18:59 (27)	06:13 19:42	06:50 18:44	07:29 17:52	17:10 16:56 (3)
30	05:39 20:28	29 19:28 (27)	17 19:42	17:17 18:44	17:52 17:50	17:19 16:53 (3)
31	05:40 20:27	31 18:57 (27)	4 19:10 (27)	18:43 18:41	17:51 17:49	17:18 16:55 (3)
Potential sun hours	472	19:31 (27)	19:37	17:48	16:55 (3)	16:25
Total, worst case	231	436	376	341	288	274
Sun reduction	0.64	1097		1612	751	
Oper. time red.	1.00	0.60		0.47	0.31	
Wind dir. red.	0.64	1.00		1.00	1.00	
Total reduction	0.42	0.64		0.79	0.79	
Total, real	96	0.39		0.38	0.25	
		429		607	186	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 596 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (964)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	15:06 (16)	07:17	06:36	07:16 (21)	06:39	05:48	06:09 (20)	05:14	06:09 (20)	
	16:26	8 15:14 (16)	17:04	17:44	25 07:41 (21)	19:24	20:00	06:39 (20)	20:35	25 06:34 (20)	
2	07:35	15:09 (16)	07:16	06:34	07:17 (21)	06:37	05:46	06:07 (20)	05:14	06:09 (20)	
	16:27	4 15:13 (16)	17:06	17:45	22 07:39 (21)	19:25	20:01	06:39 (20)	20:35	24 06:33 (20)	
3	07:35		07:15	06:33	07:19 (21)	06:35	05:45	06:06 (20)	05:13	06:11 (20)	
	16:28		17:07	17:46	18 07:37 (21)	19:26	20:03	06:40 (20)	20:36	22 06:33 (20)	
4	07:35		07:14	06:31	07:21 (21)	06:34	05:43	06:05 (20)	05:13	06:11 (20)	
	16:29		17:08	17:48	13 07:34 (21)	19:27	20:04	06:41 (20)	20:37	21 06:32 (20)	
5	07:35		07:13	16:36 (15)	06:29	06:32	05:42	06:03 (20)	05:12	06:13 (20)	
	16:30		17:10	8 16:44 (15)	17:49	19:29	20:05	06:41 (20)	20:38	18 06:31 (20)	
6	07:35		07:11	16:34 (15)	06:27	06:30	05:40	06:02 (20)	05:12	06:14 (20)	
	16:31		17:11	12 16:46 (15)	17:50	19:30	20:06	06:41 (20)	20:39	17 06:31 (20)	
7	07:35		07:10	16:32 (15)	06:25	06:28	05:39	06:01 (20)	05:12	06:15 (20)	
	16:32		17:13	16 16:48 (15)	17:52	19:31	20:07	06:42 (20)	20:39	14 06:29 (20)	
8	07:34		07:09	16:30 (15)	07:24	06:26	05:38	06:00 (20)	05:11	06:16 (20)	
	16:33		17:14	19 16:49 (15)	18:53	19:32	20:09	06:41 (20)	20:40	13 06:29 (20)	
9	07:34		07:07	16:29 (15)	07:22	06:24	05:36	06:00 (20)	05:11	06:18 (20)	
	16:34		17:16	22 16:51 (15)	18:54	19:34	20:10	06:42 (20)	20:41	10 06:28 (20)	
10	07:34		07:06	16:28 (15)	07:20	06:23	05:35	06:00 (20)	05:11	06:20 (20)	
	16:35		17:17	24 16:52 (15)	18:56	19:35	20:11	06:42 (20)	20:41	6 06:26 (20)	
11	07:33		07:05	07:27 (21)	07:18	06:21	05:34	06:00 (20)	05:10		
	16:36		17:18	33 16:54 (15)	18:57	19:36	20:12	06:42 (20)	20:42		
12	07:33		07:03	07:24 (21)	07:16	06:19	05:33	05:59 (20)	05:10		
	16:37		17:20	41 16:55 (15)	18:58	19:38	20:13	06:41 (20)	20:43		
13	07:33		07:02	07:23 (21)	07:14	06:17	05:31	05:59 (20)	05:10		
	16:39		17:21	47 16:57 (15)	18:59	19:39	20:15	06:41 (20)	20:43		
14	07:32		07:00	07:21 (21)	07:13	06:16	05:30	05:59 (20)	05:10		
	16:40		17:23	52 16:58 (15)	19:01	19:40	20:16	06:41 (20)	20:44		
15	07:32		06:59	07:20 (21)	07:11	06:14	05:29	05:59 (20)	05:10		
	16:41		17:24	56 16:59 (15)	19:02	19:41	20:17	06:41 (20)	20:44		
16	07:31		06:57	07:18 (21)	07:09	06:12	05:28	05:59 (20)	05:10		
	16:42		17:26	59 16:59 (15)	19:03	19:43	20:18	06:41 (20)	20:45		
17	07:31		06:56	07:17 (21)	07:07	06:10	05:27	06:00 (20)	05:10		
	16:44		17:27	62 17:00 (15)	19:05	19:44	20:19	06:41 (20)	20:45		
18	07:30		06:54	07:15 (21)	07:05	06:09	05:26	06:00 (20)	05:10		
	16:45		17:28	63 16:59 (15)	19:06	19:45	20:20	06:41 (20)	20:45		
19	07:29		06:53	07:14 (21)	07:03	06:07	05:25	06:00 (20)	05:10		
	16:46		17:30	66 16:59 (15)	19:07	19:46	20:21	06:40 (20)	20:46		
20	07:29		06:51	07:14 (21)	07:01	06:05	05:24	06:01 (20)	05:10		
	16:48		17:31	65 16:59 (15)	19:08	19:48	20:23	06:40 (20)	20:46		
21	07:28		06:49	07:13 (21)	07:00	06:03	05:23	06:01 (20)	05:10		
	16:49		17:33	65 16:58 (15)	19:10	19:49	20:24	06:39 (20)	20:46		
22	07:27		06:48	07:13 (21)	06:58	06:02	05:22	06:01 (20)	05:11		
	16:50		17:34	64 16:58 (15)	19:11	19:50	20:25	06:39 (20)	20:47		
23	07:26		06:46	07:13 (21)	06:56	06:00	05:21	06:03 (20)	05:11		
	16:52		17:35	62 16:57 (15)	19:12	19:51	20:26	06:39 (20)	20:47		
24	07:25		06:44	07:13 (21)	06:54	05:59	05:20	06:03 (20)	05:11		
	16:53		17:37	59 16:55 (15)	19:14	19:53	20:27	06:39 (20)	20:47		
25	07:24		06:43	07:14 (21)	06:52	05:57	05:19	06:03 (20)	05:11		
	16:54		17:38	57 16:55 (15)	19:15	19:54	06:29 (20)	20:28	35 06:38 (20)	20:47	
26	07:24		06:41	07:14 (21)	06:50	05:55	06:16 (20)	05:18	06:04 (20)	05:12	
	16:56		17:39	52 16:53 (15)	19:16	19:55	06:32 (20)	20:29	33 06:37 (20)	20:47	
27	07:23		06:39	07:14 (21)	06:48	05:54	06:15 (20)	05:18	06:05 (20)	05:12	
	16:57		17:41	47 16:50 (15)	19:17	19:56	06:34 (20)	20:30	32 06:37 (20)	20:47	
28	07:22		06:38	07:14 (21)	06:47	05:52	06:13 (20)	05:17	06:05 (20)	05:13	
	16:59		17:42	40 16:47 (15)	19:19	19:58	06:35 (20)	20:31	31 06:36 (20)	20:47	
29	07:21				06:45	05:51	06:12 (20)	05:16	06:06 (20)	05:13	
	17:00				19:20	19:59	06:37 (20)	20:32	30 06:36 (20)	20:47	
30	07:20				06:43	05:49	06:10 (20)	05:15	06:07 (20)	05:14	
	17:01				19:21	20:00	06:38 (20)	20:33	29 06:36 (20)	20:47	
31	07:18				06:41			05:15	06:08 (20)		
	17:03				19:22			20:34	27 06:35 (20)		
Potential sun hours	286		291		369		404		459		466
Total, worst case	12		1091		78		121		1153		170
Sun reduction	0.41		0.48		0.51		0.49		0.56		0.59
Oper. time red.	1.00		1.00		1.00		1.00		1.00		1.00
Wind dir. red.	0.77		0.71		0.61		0.78		0.78		0.78
Total reduction	0.31		0.34		0.31		0.38		0.43		0.46
Total, real	4		372		24		46		500		78

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

Project:

Jericho_SFA_2015_08_28

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8/28/2015 2:48 PM / 173

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar**Shadow receptor: 596 - Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (964)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 20:47	05:42 20:25	06:09 (20) 06:52 (20)	06:18 19:35	06:54 18:39	06:34 16:46
2	05:15 20:47	06:26 (20) 06:29 (20)	05:43 20:24	43 06:09 (20) 43 06:52 (20)	06:19 19:33	06:55 18:37
3	05:15 20:47	06:24 (20) 06:32 (20)	05:44 20:23	42 06:09 (20) 42 06:51 (20)	06:20 19:32	06:56 18:35
4	05:16 20:47	06:22 (20) 06:33 (20)	05:45 20:22	42 06:10 (20) 42 06:52 (20)	06:22 19:30	06:58 18:33
5	05:16 20:46	06:21 (20) 06:35 (20)	05:46 20:20	42 06:10 (20) 42 06:52 (20)	06:23 19:28	06:59 18:31
6	05:17 20:46	06:21 (20) 06:37 (20)	05:47 20:19	40 06:11 (20) 40 06:51 (20)	07:00 19:26	06:41 18:30
7	05:18 20:46	06:19 (20) 06:37 (20)	05:49 20:18	39 06:12 (20) 39 06:51 (20)	07:01 19:24	06:42 18:28
8	05:18 20:45	06:19 (20) 06:39 (20)	05:50 20:16	37 06:13 (20) 37 06:50 (20)	07:03 19:22	06:44 18:26
9	05:19 20:45	06:19 (20) 06:40 (20)	05:51 20:15	35 06:14 (20) 35 06:49 (20)	07:04 19:20	06:45 18:24
10	05:20 20:44	06:17 (20) 06:40 (20)	05:52 20:13	34 06:15 (20) 34 06:49 (20)	07:05 19:19	06:46 18:22
11	05:21 20:44	06:17 (20) 06:41 (20)	05:53 20:12	32 06:16 (20) 32 06:48 (20)	07:06 19:17	06:48 18:20
12	05:22 20:43	06:16 (20) 06:42 (20)	05:54 20:10	29 06:17 (20) 29 06:46 (20)	07:08 19:15	07:08 18:19
13	05:22 20:43	06:16 (20) 06:44 (20)	05:56 20:09	27 06:19 (20) 27 06:46 (20)	07:09 19:13	07:09 18:17
14	05:23 20:42	06:16 (20) 06:45 (20)	05:57 20:07	25 06:20 (20) 25 06:45 (20)	07:10 19:11	07:10 18:15
15	05:24 20:42	06:15 (20) 06:45 (20)	05:58 20:06	22 06:21 (20) 22 06:43 (20)	07:11 19:09	07:11 18:13
16	05:25 20:41	06:14 (20) 06:45 (20)	05:59 20:04	19 06:22 (20) 19 06:41 (20)	07:13 19:07	07:13 18:12
17	05:26 20:40	06:13 (20) 06:46 (20)	06:00 20:03	15 06:23 (20) 15 06:38 (20)	07:14 19:05	07:14 18:10
18	05:27 20:39	06:13 (20) 06:47 (20)	06:01 20:01	10 06:24 (20) 10 06:34 (20)	07:15 19:03	07:15 18:08
19	05:28 20:39	06:13 (20) 06:48 (20)	06:03 19:58	06:39 19:02	07:17 18:07	07:17 17:28
20	05:29 20:38	06:12 (20) 06:48 (20)	06:04 19:56	06:41 19:00	07:18 18:05	07:18 17:28
21	05:30 20:37	06:12 (20) 06:49 (20)	06:05 19:54	06:42 18:58	07:19 18:03	07:19 17:28
22	05:31 20:36	06:12 (20) 06:50 (20)	06:06 19:53	06:43 18:56	07:21 18:02	07:21 17:29
23	05:32 20:35	06:11 (20) 06:50 (20)	06:07 19:51	06:44 18:54	07:22 18:00	07:22 17:29
24	05:33 20:34	06:11 (20) 06:51 (20)	06:09 19:49	06:45 18:52	07:23 17:58	07:23 17:30
25	05:34 20:33	06:11 (20) 06:51 (20)	06:10 19:48	06:47 18:50	07:25 17:57	07:25 17:29
26	05:35 20:32	06:10 (20) 06:51 (20)	06:11 19:46	06:48 18:48	07:26 17:55	07:26 17:28
27	05:36 20:31	06:10 (20) 06:52 (20)	06:12 19:44	06:49 18:46	07:27 17:54	07:27 17:29
28	05:37 20:30	06:10 (20) 06:52 (20)	06:13 19:42	06:50 18:44	07:29 17:52	07:31 17:27
29	05:38 20:29	06:10 (20) 06:52 (20)	06:15 19:41	06:51 18:43	07:30 17:51	07:31 17:26
30	05:39 20:28	06:10 (20) 06:52 (20)	06:16 19:39	06:53 18:41	07:31 17:49	07:31 17:24
31	05:41 20:27	06:09 (20) 06:52 (20)	06:17 19:37	07:33 17:48	07:59 (21) 17:23 (15)	07:59 (21) 17:23 (15)
Potential sun hours	472	436	376	341	288	275
Total, worst case	886	576	1080	99	307	
Sun reduction	0.64	0.60	0.47	0.31	0.33	
Oper. time red.	1.00	1.00	1.00	1.00	1.00	
Wind dir. red.	0.78	0.78	0.70	0.79	0.77	
Total reduction	0.50	0.46	0.33	0.24	0.25	
Total, real	439	268	353	24	78	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)		Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 1

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 1 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (87)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	07:35 15:18-15:52/34 16:26 15:51-15:58/7 27:03 15:18-15:52/34 16:27 15:51-15:59/8	07:18 15:51-16:30/39 17:04 16:30-16:38/8 07:16 15:52-16:30/38 17:06 16:30-16:40/10	06:36 16:59-17:21/22 17:44 06:34 16:57-17:22/25 17:45	06:39 06:59-07:29/30 19:24 18:30-19:01/31 06:37 06:58-07:26/28 19:25 18:32-19:02/30	05:48 06:17-07:05/48 20:00 18:48-19:32/44 05:46 06:16-07:04/48 20:01 18:49-19:38/49	05:14 06:37-06:45/8 20:35 19:27-19:51/24 05:14 19:27-19:50/23 20:36 19:50-20:04/14
2	07:35 15:19-15:52/33 16:28 15:51-16:00/9 07:35 15:20-15:52/32 16:30 15:51-16:01/10	07:15 15:54-16:29/35 17:07 16:29-16:41/12 07:14 15:55-16:29/34 17:09 16:29-16:42/13	06:33 16:56-17:23/27 17:46 06:31 16:55-17:24/29 17:48	06:35 06:59-07:21/22 19:26 18:35-19:04/29 06:34 06:59-07:20/21 19:28 18:34-19:05/31	05:45 06:17-07:05/48 20:03 18:51-19:39/48 05:43 06:17-07:05/48 20:04 18:53-19:41/48	05:13 19:27-19:50/23 20:36 19:50-20:04/14 05:13 19:27-19:48/21 20:37 19:48-20:04/16
3	07:35 15:20-15:52/32 16:30 15:51-16:01/10 07:35 15:21-15:52/31 16:31 15:51-16:02/11	07:13 15:56-16:28/32 17:10 16:28-16:41/13 07:11 15:58-16:27/29 17:11 16:27-16:41/14	06:29 16:55-17:26/31 17:49 06:27 16:54-17:28/34 17:50	06:32 06:59-07:19/20 19:29 18:33-19:06/33 06:30 07:00-07:18/18 19:30 18:32-19:07/35	05:42 06:16-07:04/48 20:05 18:55-19:41/46 05:41 06:16-07:04/48 20:06 19:00-19:43/43	05:12 19:28-19:48/20 20:38 19:48-20:04/16 05:12 19:28-19:47/19 20:39 19:47-20:05/18
4	07:35 15:22-15:53/31 16:32 15:52-16:04/12 07:35 15:23-15:53/30 16:33 15:52-16:05/13	07:10 16:01-16:26/25 17:13 16:26-16:41/15 07:09 16:03-16:24/21 17:14 16:24-16:40/16	06:26 16:53-17:29/36 17:52 07:24 17:53-18:30/37 18:53	06:28 07:01-07:16/15 19:31 18:31-19:08/37 06:26 07:03-07:14/11 19:33 18:31-19:09/38	05:39 06:16-07:05/49 20:08 19:06-19:44/38 05:38 06:16-07:04/48 20:09 19:07-19:23/16	05:12 19:28-19:44/16 20:40 19:44-20:04/20 05:11 19:29-20:04/35 20:40
5	07:34 15:23-15:52/29 16:34 15:51-16:06/15 07:34 15:24-15:53/29 16:35 15:52-16:07/15	07:08 16:06-16:22/16 17:16 16:22-16:40/18 07:06 16:07-16:18/11 17:17 16:18-16:40/22	17:52 17:52-18:31/39 18:54 07:20 17:52-18:31/39 18:56	06:25 18:31-19:11/40 19:34 06:23 18:30-19:12/42 19:35	05:36 06:16-07:04/48 20:10 19:10-19:21/11 05:35 06:16-07:04/48 20:11 19:23-19:47/24	05:10 19:29-20:05/36 20:41 05:11 19:30-20:05/35 20:42
6	16:35 15:52-16:07/15 16:40 15:51-16:12/21 07:32 15:30-15:50/20 16:41 15:49-16:13/24	17:19 17:23 07:00 16:12-16:36/24 17:23	18:57 19:01 17:54-18:27/33 19:02	06:21 18:30-19:13/43 19:36 06:19 18:30-19:14/44 19:38	05:34 06:17-07:03/46 20:12 19:23-19:48/25 05:33 06:17-07:03/46 20:14 19:22-19:50/28	05:10 19:30-20:05/35 20:42 05:10 19:30-20:04/34 20:43
7	07:32 15:30-15:50/20 16:41 15:49-16:13/24 07:31 15:32-15:50/18 16:42 15:49-16:15/26	17:20 17:24 07:02 16:10-16:37/27 17:21	18:58 19:00 17:53-18:29/36 19:00	06:17 18:31-19:16/45 19:39 06:16 18:31-19:17/46 19:40	05:31 06:17-07:02/45 20:15 19:22-19:50/28 05:30 06:17-07:02/45 20:16 19:22-19:51/29	05:10 19:30-20:04/34 20:43 05:10 19:31-20:05/34 20:44
8	07:32 15:30-15:50/20 16:41 15:49-16:13/24 07:31 15:32-15:50/18 16:42 15:49-16:15/26	17:20 17:24 07:02 16:10-16:37/27 17:21	18:58 19:00 17:53-18:29/36 19:00	06:14 18:31-19:18/47 19:41 06:12 18:31-19:19/48 19:43	05:29 06:18-07:01/43 20:17 19:22-19:52/30 05:28 06:18-07:01/43 20:18 19:22-19:53/31	05:10 19:31-20:05/34 20:44 05:10 19:31-20:05/34 20:45
9	07:31 15:34-15:48/14 16:44 15:47-16:16/29 07:30 15:35-15:45/10 16:45 15:45-16:17/32	06:56 16:21-16:26/5 17:27 06:54 17:58-18:23/25 19:06 18:32-18:44/12	17:27 18:56 19:06 18:32-18:44/12 19:07 17:59-18:21/22	06:10 18:32-19:21/49 19:44 06:09 06:36-06:51/15 19:45 18:33-19:21/48	05:27 06:19-07:00/41 20:19 19:22-19:54/32 05:26 06:19-06:59/40 20:21 19:22-19:55/33	05:10 19:32-20:05/33 20:45 05:10 19:33-20:06/33 20:46
10	07:29 15:36-16:18/42 16:46 07:29 15:37-16:21/44 16:48	06:53 17:30 06:51 17:31	18:30-18:45/15 19:07 17:59-18:21/22 07:02 07:22-07:34/12 19:09 18:02-18:17/15	06:07 06:32-06:54/22 19:46 18:33-19:22/49 06:05 06:30-06:57/27 19:48 18:35-19:24/49	05:25 06:20-06:59/39 20:22 19:23-19:56/33 05:24 06:20-06:58/38 20:23 19:23-19:56/33	05:10 19:33-20:06/33 20:46 05:10 19:33-20:06/33 20:46
11	07:28 15:38-16:22/44 16:49 07:27 15:39-16:23/44 16:50	06:50 17:33 06:48 17:34	18:28-18:47/19 19:10 18:06-18:12/6 06:58 07:18-07:36/18 19:11 18:27-18:49/22	06:04 06:27-06:58/31 19:49 18:36-19:25/49 06:02 06:25-06:59/34 19:50 18:38-19:26/48	05:23 06:21-06:57/36 20:24 19:23-19:55/32 05:22 06:23-06:57/34 20:25 19:24-19:54/30	05:10 19:33-20:06/33 20:47 05:11 19:33-20:06/33 20:47
12	07:26 15:41-16:25/44 16:52 07:26 15:42-16:26/44 16:53	06:46 17:35 06:45 17:37	18:26-18:50/24 19:12 18:26-18:50/24 06:54 07:14-07:36/22 19:14 18:26-18:51/25	06:00 06:24-07:01/37 19:52 18:42-19:27/45 05:59 06:22-07:01/39 19:53 18:44-19:28/44	05:21 06:24-06:56/32 20:26 19:25-19:53/28 05:20 06:24-06:55/31 20:27 19:25-19:51/26	05:11 19:33-20:06/33 20:47 05:11 19:34-20:07/33 20:47
13	07:25 15:44-16:27/43 16:54 07:24 15:46-16:29/43 16:56	06:43 17:09-17:15/6 17:38 06:41 17:05-17:16/11 17:40	18:25-18:52/27 19:15 18:25-18:53/28 06:49 07:09-07:36/27 19:16 18:25-18:53/28	05:57 06:22-07:02/40 19:54 18:45-19:30/45 05:55 06:20-07:03/43 19:55 18:45-19:31/46	05:19 06:25-06:54/29 20:28 19:25-19:54/29 05:18 06:26-06:53/27 20:29 19:25-19:54/29	05:11 19:34-20:07/33 20:47 05:12 19:33-20:07/34 20:47
14	07:23 15:48-16:30/42 16:57 07:22 15:49-16:31/41 16:59	06:40 17:02-17:17/15 17:41 06:38 17:01-17:20/19 17:42	18:26-18:55/29 19:17 18:26-18:55/29 06:45 07:05-07:34/29 19:19 18:26-18:56/30	05:54 06:20-07:04/44 19:57 18:45-19:32/47 05:52 06:19-07:04/45 19:58 18:46-19:33/47	05:18 06:28-06:53/25 20:30 19:26-19:54/28 05:17 06:29-06:51/22 20:31 19:26-19:53/27	05:12 19:34-20:08/34 20:47 05:13 19:34-20:08/34 20:48
15	07:21 15:50-16:31/41 17:00 07:20 15:50-16:31/41 17:01	17:42 17:30 16:31-16:34/3 16:31-16:35/4	18:56-18:56/30 19:20 18:27-18:57/30 06:43 07:03-07:33/30 19:21 18:27-18:59/32	05:51 06:19-07:04/45 19:59 18:47-19:33/46 05:49 06:17-07:04/47 20:00 18:47-19:32/45	05:16 06:30-06:50/20 20:32 19:26-19:52/26 05:16 06:32-06:49/17 20:33 19:26-19:52/26	05:13 19:34-20:08/34 20:47 05:14 19:34-20:08/34 20:47
16	07:19 15:51-16:31/40 17:03 16:31-16:37/6	17:42 17:30 16:31-16:37/6	18:57-18:57/30 19:23 18:28-19:00/32	19:51 18:47-19:33/46 20:04 18:47-19:32/45 19:51 18:47-19:33/46 20:04 18:47-19:32/45	19:52 19:26-19:52/26 19:51 19:26-19:52/26 19:51 19:26-19:52/26 19:51 19:26-19:52/26	05:14 19:34-20:08/34 20:47 05:14 19:34-20:08/34 20:47
Potential sun hours	286	291	369	404	459	466
Sum of minutes with flicker	1326	623	1272	1910	2319	1044

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 2

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 1 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (87)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 19:35-20:09/34 20:47	05:42 06:27-07:13/46 20:26 19:33-19:59/26	06:18 18:29-19:12/43 19:35	06:54 17:32-18:09/37 18:39	06:34 15:36-15:48/12 16:46 15:48-16:09/21	07:14 15:07-15:34/27 16:18 15:33-15:50/17
2	05:15 19:34-20:09/35 20:47	05:43 06:26-07:13/47 20:24 19:33-19:57/24	06:19 18:28-19:10/42 19:34	06:55 17:31-18:09/38 18:37	06:36 15:35-15:52/17 16:45 15:52-16:10/18	07:15 15:07-15:36/29 16:17 15:35-15:50/15
3	05:15 19:35-20:10/35 20:47	05:44 06:27-07:14/47 19:34-19:57/23 20:23 19:24-19:28/4	06:21 18:28-19:08/40 19:32	06:57 17:31-18:09/38 18:35	06:37 15:33-15:54/21 16:44 15:54-16:10/16	07:16 15:07-15:36/29 16:17 15:35-15:50/15
4	05:16 19:34-20:09/35 20:47	05:45 06:26-07:14/48 19:34-19:56/22 20:22 19:19-19:32/13	06:22 07:00-07:11/11 19:30 18:29-19:07/38	06:58 17:30-18:09/39 18:33	06:38 15:31-15:56/25 16:42 15:56-16:11/15	07:17 15:07-15:37/30 16:17 15:36-15:49/13
5	05:16 19:34-20:10/36 20:47	05:46 06:26-07:14/48 19:35-19:55/20 20:20 19:17-19:34/17	06:23 06:58-07:13/15 19:28 18:28-19:05/37	06:59 17:30-18:08/38 18:32	06:40 15:28-15:57/29 16:41 15:57-16:11/14	07:18 15:07-15:38/31 16:16 15:37-15:49/12
6	05:17 19:35-19:52/17 20:46 19:52-20:11/19	05:47 06:26-07:14/48 20:19 19:15-19:53/38	06:24 06:56-07:14/18 19:26 18:28-19:03/35	07:00 17:30-18:06/36 18:30	06:41 15:27-15:58/31 16:40 15:58-16:12/14	07:19 15:07-15:38/31 16:16 15:37-15:48/11
7	05:18 19:34-19:53/19 20:46 19:53-20:10/17	05:49 06:26-07:14/48 20:18 19:07-19:52/45	06:25 06:54-07:14/20 19:24 18:28-19:01/33	07:01 17:30-18:04/34 18:28	06:43 15:25-15:59/34 16:38 15:59-16:12/13	07:20 15:07-15:39/32 16:16 15:38-15:48/10
8	05:19 19:34-19:55/21 20:45 19:55-20:11/16	05:50 06:25-07:14/49 20:16 19:03-19:50/47	06:26 06:53-07:14/21 19:22 18:28-18:59/31	07:03 17:30-18:02/32 18:26	06:44 15:25-16:00/35 16:37 16:00-16:12/12	07:21 15:07-15:40/33 16:16 15:39-15:48/9
9	05:19 19:35-19:57/22 20:45 19:57-20:12/15	05:51 06:25-07:14/49 20:15 19:01-19:49/48	06:28 06:52-07:14/22 19:21 18:28-18:57/29	07:04 17:29-18:00/31 18:24	06:45 15:23-16:01/38 16:36 16:01-16:10/9	07:22 15:07-15:40/33 16:16 15:39-15:48/9
10	05:20 19:35-19:58/23 20:45 19:58-20:12/14	05:52 06:25-07:13/48 20:13 18:59-19:47/48	06:29 06:52-07:20/28 19:19 18:25-18:55/30	07:05 17:31-17:59/28 18:22	06:47 15:23-16:02/39 16:35 16:02-16:10/8	07:23 15:07-15:41/34 16:16 15:40-15:48/8
11	05:21 06:46-06:50/4 19:58-20:12/14 20:44 19:34-19:58/24	05:53 06:25-07:13/48 19:41-19:46/5 20:12 18:57-19:39/42	06:30 06:52-07:22/30 19:17 18:23-18:54/31	07:07 17:31-17:57/26 18:21	06:48 15:22-16:02/40 16:33 16:02-16:08/6	07:24 15:08-15:42/34 16:16 15:41-15:48/7
12	05:22 06:43-06:54/11 19:59-20:12/13 20:44 19:34-19:59/25	05:54 06:26-07:13/47 20:11 18:57-19:41/44	06:31 06:53-07:23/30 19:15 18:21-18:52/31	07:08 17:31-17:55/24 18:19	06:49 15:21-16:02/41 16:32 16:02-16:06/4	07:25 15:08-15:42/34 16:16 15:41-15:48/7
13	05:22 06:41-06:56/15 20:00-20:13/13 20:43 19:35-20:00/25	05:56 06:26-07:13/47 20:09 18:55-19:41/46	06:32 06:54-07:24/30 19:13 18:19-18:50/31	07:09 17:33-17:53/20 18:17	06:51 15:21-16:03/42 16:31 16:03-16:06/3	07:26 15:09-15:43/34 16:16 15:42-15:48/6
14	05:23 06:40-06:58/18 20:01-20:13/12 20:42 19:35-20:01/26	05:57 06:26-07:12/46 20:08 18:54-19:41/47	06:34 06:55-07:24/29 19:11 18:17-18:48/31	07:10 17:34-17:51/17 18:15	06:52 15:21-16:02/41 16:30 16:02-16:04/2	07:27 15:09-15:44/35 16:16 15:43-15:48/5
15	05:24 06:39-07:00/21 20:02-20:13/11 20:42 19:35-20:02/27	05:58 06:27-07:11/44 20:06 18:53-19:40/47	06:35 06:56-07:24/28 19:09 18:16-18:46/30	07:12 17:35-17:49/14 18:14	06:53 15:21-16:03/42 16:29	07:28 15:09-15:43/34 16:16 15:42-15:48/6
16	05:25 06:38-07:02/24 20:02-20:13/11 20:41 19:34-20:02/28	05:59 06:27-07:10/43 20:04 18:52-19:39/47	06:36 06:57-07:24/27 19:07 18:15-18:44/29	07:13 17:38-17:48/10 18:12	06:55 15:19-16:02/43 16:28	07:28 15:10-15:44/34 16:16 15:43-15:48/5
17	05:26 06:36-07:02/26 20:03-20:13/10 20:40 19:35-20:03/28	06:00 06:27-07:09/42 20:03 18:51-19:37/46	06:37 06:59-07:25/26 19:05 18:15-18:43/28	07:14 17:42-17:46/4 18:10	06:56 15:18-16:01/43 16:27	07:29 15:10-15:45/35 16:17 15:44-15:49/5
18	05:27 06:35-07:03/28 20:04-20:12/8 20:40 19:35-20:04/29	06:02 06:28-07:08/40 20:01 18:50-19:35/45	06:38 07:00-07:24/24 19:04 18:14-18:41/27	07:16 18:08	06:57 15:16-16:00/44 16:26	07:30 15:10-15:45/35 16:17 15:44-15:48/4
19	05:28 06:34-07:04/30 19:58-20:11/13 20:39 19:35-19:59/24	06:03 06:28-07:07/39 20:00 18:50-19:34/44	06:40 07:01-07:23/22 19:02 18:13-18:39/26	07:17 18:07	06:59 15:16-16:00/44 16:25	07:30 15:11-15:45/34 16:17 15:45-15:49/4
20	05:29 06:33-07:05/32 20:01-20:11/10 20:38 19:34-20:02/28	06:04 06:30-07:06/36 19:56 18:47-19:33/46	06:41 07:02-07:22/20 19:00 18:13-18:36/23	07:18 18:05	07:00 15:14-15:58/44 16:24	07:31 15:12-15:46/34 16:18 15:46-15:50/4
21	05:30 06:33-07:06/33 20:03-20:10/7 20:37 19:34-20:04/30	06:05 06:31-07:04/33 19:55 18:44-19:31/47	06:42 07:03-07:21/18 18:58 18:12-18:34/22	07:19 18:03	07:01 15:13-15:57/44 16:24	07:31 15:12-15:46/34 16:18 15:46-15:50/4
22	05:31 06:32-07:07/35 20:04-20:09/5 20:36 19:34-20:05/31	06:06 06:32-07:03/31 19:53 18:41-19:29/48	06:43 07:04-07:20/16 18:56 18:12-18:32/20	07:21 18:02	07:03 15:14-15:57/43 16:23	07:32 15:13-15:47/34 16:19 15:47-15:51/4
23	05:32 06:31-07:08/37 20:06-20:08/2 20:35 19:33-20:06/33	06:07 06:34-07:00/26 19:51 18:39-19:28/49	06:44 07:06-07:19/13 18:13-18:31/18 18:54 17:47-18:01/14	07:22 18:00	07:04 15:13-15:55/42 16:22	07:33 15:13-15:47/34 16:19 15:47-15:51/4
24	05:33 06:31-07:09/38 20:34 19:33-20:07/34	06:09 06:36-06:57/21 19:50 18:37-19:26/49	06:46 07:07-07:16/9 18:14-18:29/15 18:52 17:43-18:03/20	07:23 17:59	07:05 15:12-15:22/10 16:21 15:22-15:54/32	07:33 15:13-15:47/34 16:20 15:47-15:51/4
25	05:34 06:30-07:10/40 20:33 19:33-20:06/33	06:10 06:39-06:54/15 19:48 18:35-19:24/49	06:47 07:08-07:12/4 18:14-18:27/13 18:50 17:41-18:05/24	07:25 16:49-16:58/9 17:57	07:07 15:12-15:26/14 16:21 15:25-15:54/29	07:33 15:14-15:48/34 16:20 15:48-15:52/4
26	05:35 06:30-07:10/40 20:32 19:33-20:05/32	06:11 18:34-19:22/48 19:46	06:48 17:38-18:06/28 18:48 18:15-18:25/10	07:26 16:46-17:02/16 17:55	07:08 15:10-15:28/18 16:20 15:27-15:53/26	07:34 15:14-15:49/35 16:21 15:48-15:53/5
27	05:36 06:29-07:11/42 20:31 19:33-20:04/31	06:12 18:34-19:21/47 19:44	06:49 17:36-18:07/31 18:46 18:16-18:23/7	07:28 16:43-17:04/21 17:54	07:09 15:09-15:29/20 16:20 15:28-15:52/24	07:34 15:14-15:49/35 16:22 15:48-15:53/5
28	05:37 06:28-07:11/43 20:30 19:33-20:03/30	06:13 18:32-19:20/48 19:43	06:50 17:36-18:08/32 18:45 18:19-18:22/3	07:29 16:40-17:05/25 17:52	07:10 15:09-15:32/23 16:19 15:31-15:52/21	07:35 15:15-15:49/34 16:22 15:48-15:53/5
29	05:38 06:28-07:12/44 20:29 19:33-20:02/29	06:15 18:31-19:18/47 19:41	06:52 17:34-18:09/35 18:43	07:30 16:39-17:07/28 17:51	07:12 15:08-15:32/24 16:18 15:31-15:51/20	07:35 15:16-15:51/35 16:23 15:50-15:55/5
30	05:39 06:27-07:12/45 20:28 19:33-20:01/28	06:16 18:31-19:16/45 19:39	06:53 17:33-18:09/36 18:41	07:32 16:38-17:07/29 17:49	07:13 15:07-15:33/26 16:18 15:32-15:51/19	07:35 15:17-15:51/34 16:24 15:50-15:56/6
31	05:41 06:27-07:13/46 20:27 19:33-20:00/27	06:17 18:30-19:14/44 19:37		07:33 16:37-17:09/32 17:48		07:35 15:17-15:51/34 16:25 15:50-15:57/7
Potential sun hours	472	436	376	341	288	274
Sum of minutes with flicker	1737	2391	1434	626	1290	1231

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 3

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 10 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (96)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January			February			March			April			May			June			
1	07:35	08:56-09:33/37	15:26-15:58/32	07:17	07:42-08:10/28	06:36	06:39					05:48	06:15-06:53/38	05:14	05:43-06:13/30			
	16:26	14:37-14:56/19		17:04		17:44	19:24					20:00	19:03-19:32/29	20:35	19:45-20:09/24			
2	07:35	08:57-09:33/36	15:27-15:58/31	07:16	07:42-08:10/28	06:34	06:37					05:46	06:14-06:52/38	05:14	05:43-06:13/30			
	16:27	14:39-14:56/17		17:06		17:45	19:25					20:01	19:03-19:31/28	20:35	19:45-20:09/24			
3	07:35	08:58-09:33/35	15:27-15:59/32	07:15	07:42-08:11/29	06:33	06:35					05:45	06:15-06:51/36	05:13	05:44-06:14/30			
	16:28	14:41-14:55/14		17:07		17:46	19:26					20:03	19:04-19:31/27	20:36	19:45-20:10/25			
4	07:35	08:58-09:32/34	15:27-15:58/31	07:14	07:42-08:11/29	06:31	06:34					05:43	06:16-06:51/35	05:13	05:43-06:13/30			
	16:29	14:42-14:53/11		17:08		17:48	19:28					20:04	19:04-19:29/25	20:37	19:45-20:09/24			
5	07:35	08:59-09:33/34	15:27-15:59/32	07:13	07:42-08:11/29	06:29	06:32					05:42	06:15-06:49/34	05:12	05:44-06:13/29			
	16:30	14:45-14:52/7		17:10		17:49	19:29					20:05	19:05-19:29/24	20:38	19:46-20:09/23			
6	07:35	09:00-09:33/33		07:11	07:42-08:11/29	06:27	06:30					05:40	06:16-06:48/32	05:12	05:45-06:14/29			
	16:31	15:28-15:59/31		17:11		17:50	19:30					20:06	19:07-19:28/21	20:39	19:47-20:10/23			
7	07:35	09:01-09:33/32		07:10	07:43-08:11/28	06:25	06:28					05:39	06:17-06:47/30	05:12	05:44-06:13/29			
	16:32	15:29-16:00/31		17:13		17:52	19:31					20:08	19:08-19:27/19	20:39	19:47-20:09/22			
8	07:34	09:03-09:32/29		07:09	07:43-08:10/27	06:24	06:26					05:38	06:17-06:45/28	05:11	05:45-06:13/28			
	16:33	15:29-16:00/31		17:14		18:53	19:33					20:09	19:09-19:24/15	20:40	19:47-20:09/22			
9	07:34	09:03-09:31/28		07:07	07:44-08:10/26	06:22	06:24					05:36	06:19-06:42/23	05:11	05:45-06:14/29			
	16:34	15:30-16:00/30		17:16		18:54	19:34					20:10	19:12-19:22/10	20:41	19:48-20:09/21			
10	07:34	09:05-09:31/26		07:06	07:45-08:10/25	06:20	06:23					05:35	06:20-06:39/19	05:11	05:46-06:14/28			
	16:35	15:31-16:01/30		17:17		18:56	19:35					20:11		20:41	19:49-20:09/20			
11	07:34	09:06-09:30/24		07:05	07:45-08:09/24	06:18	06:21					05:34	06:22-06:37/15	05:10	05:46-06:14/28			
	16:36	15:31-16:01/30		17:18		18:57	19:36					20:12		20:42	19:49-20:09/20			
12	07:33	09:08-09:29/21		07:03	07:47-08:08/21	06:16	06:19					05:33	05:55-06:00/5	05:10	05:46-06:13/27			
	16:37	15:32-16:01/29		17:20		18:58	19:38					20:14	06:24-06:35/11	20:43	19:49-20:08/19			
13	07:33	09:10-09:27/17		07:02	07:48-08:06/18	06:15	06:17					05:31	05:53-06:03/10	05:10	05:46-06:13/27			
	16:39	15:32-16:01/29		17:21		19:00	19:39					20:15	19:48-19:50/2	20:43	19:50-20:08/18			
14	07:32	09:13-09:26/13		07:00	07:51-08:04/13	06:13	06:16					05:30	05:52-06:05/13	05:10	05:47-06:14/27			
	16:40	15:33-16:01/28		17:23		19:01	19:40					20:16	19:47-19:51/4	20:44	19:50-20:08/18			
15	07:32	09:19-09:20/1		06:59	07:54-08:00/6	07:11	06:14	06:34-06:47/13				05:29	05:51-06:06/15	05:10	05:47-06:14/27			
	16:41	15:34-16:01/27		17:24		19:02	19:41					20:17	19:46-19:52/6	20:44	19:51-20:08/17			
16	07:31	15:35-16:02/27		06:57		07:09	06:12	06:32-06:49/17				05:28	05:50-06:07/17	05:10	05:47-06:14/27			
	16:42			17:26		19:03	19:43					20:18	19:45-19:53/8	20:45	19:51-20:08/17			
17	07:31	15:36-16:01/25		06:56		07:07	06:10	06:31-06:52/21				05:27	05:49-06:08/19	05:10	05:47-06:14/27			
	16:44			17:27		19:05	19:44	19:14-19:20/6				20:19	19:44-19:54/10	20:45	19:51-20:08/17			
18	07:30	15:36-16:00/24		06:54		07:05	06:09	06:29-06:52/23				05:26	05:48-06:09/21	05:10	05:48-06:14/26			
	16:45			17:28		19:06	19:45	19:11-19:21/10				20:20	19:44-19:55/11	20:46	19:51-20:08/17			
19	07:29	15:37-16:00/23		06:53		07:03	06:07	06:27-06:53/26				05:25	05:47-06:10/23	05:10	05:49-06:15/26			
	16:46			17:30		19:07	19:46	19:09-19:22/13				20:22	19:43-19:56/13	20:46	19:53-20:09/16			
20	07:29	15:39-16:00/21		06:51		07:02	06:05	06:26-06:54/28				05:24	05:46-06:10/24	05:10	05:49-06:15/26			
	16:48			17:31		19:09	19:48	19:08-19:24/16				20:23	19:43-19:57/14	20:46	19:53-20:09/16			
21	07:28	15:41-15:59/18		06:49		07:00	06:04	06:24-06:54/30				05:23	05:45-06:11/26	05:10	05:49-06:15/26			
	16:49			17:33		19:10	19:49	19:06-19:25/19				20:24	19:43-19:58/15	20:46	19:53-20:09/16			
22	07:27	15:43-15:57/14		06:48		06:58	06:02	06:22-06:54/32				05:22	05:45-06:12/27	05:11	05:49-06:15/26			
	16:50			17:34		19:11	19:50	19:05-19:26/21				20:25	19:42-19:59/17	20:47	19:53-20:09/16			
23	07:26	07:51-07:57/6		06:46		06:56	06:00	06:21-06:55/34				05:21	05:44-06:12/28	05:11	05:49-06:15/26			
	16:52	15:45-15:55/10		17:35		19:12	19:51	19:05-19:27/22				20:26	19:43-20:01/18	20:47	19:53-20:09/16			
24	07:25	07:48-08:00/12		06:45		06:54	05:59	06:19-06:55/36				05:20	05:43-06:12/29	05:11	05:50-06:16/26			
	16:53			17:37		19:14	19:53	19:04-19:28/24				20:27	19:43-20:01/18	20:47	19:54-20:10/16			
25	07:25	07:47-08:03/16		06:43		06:52	05:57	06:18-06:55/37				05:19	05:42-06:12/30	05:11	05:49-06:16/27			
	16:54			17:38		19:15	19:54	19:04-19:30/26				20:28	19:43-20:02/19	20:47	19:53-20:10/17			
26	07:24	07:46-08:04/18		06:41		06:50	05:55	06:16-06:55/39				05:18	05:42-06:12/30	05:12	05:49-06:16/27			
	16:56			17:39		19:16	19:55	19:03-19:31/28				20:29	19:43-20:03/20	20:47	19:53-20:10/17			
27	07:23	07:45-08:06/21		06:39		06:48	05:54	06:16-06:55/39				05:18	05:43-06:13/30	05:12	05:50-06:17/27			
	16:57			17:41		19:17	19:56	19:03-19:32/29				20:30	19:43-20:04/21	20:47	19:54-20:11/17			
28	07:22	07:44-08:07/23		06:38		06:47	05:52	06:15-06:54/39				05:17	05:42-06:13/31	05:13	05:50-06:17/27			
	16:59			17:42		19:19	19:58	19:03-19:33/30				20:31	19:43-20:05/22	20:47	19:53-20:11/18			
29	07:21	07:43-08:08/25				06:45	05:51	06:15-06:54/39				05:16	05:42-06:13/31	05:13	05:50-06:18/28			
	17:00					19:20	19:59	19:03-19:33/30				20:32	19:43-20:05/22	20:47	19:54-20:12/18			
30	07:20	07:43-08:09/26				06:43	05:49	06:15-06:53/38				05:16	05:43-06:13/30	05:14	05:50-06:17/27			
	17:01					19:21	20:00	19:03-19:32/29				20:33	19:44-20:07/23	20:47	19:53-20:12/19			
31	07:19	07:43-08:10/27				06:41						05:15	05:42-06:13/31					
	17:03					19:22						20:34	19:44-20:07/23					
Potential sun hours	286			291			369			404			459			466		
Sum of minutes with flicker	1258			360			0			794			1293			1400		

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 4

Licensed user:

EDR217 Montgomery St.
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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 10 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (96)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14	05:51-06:18/27	05:42	06:33-06:45/12	06:18	06:54			06:34	07:14-07:39/25	07:14	08:48-09:12/24
	20:47	19:54-20:13/19	20:25		19:35	18:39			16:46		16:18	15:13-15:43/30
2	05:15	05:50-06:18/28	05:43	06:31-06:47/16	06:19	06:55			06:36	07:13-07:40/27	07:15	08:48-09:14/26
	20:47	19:53-20:13/20	20:24		19:33	18:37			16:45		16:17	15:13-15:43/30
3	05:15	05:51-06:19/28	05:44	06:30-06:51/21	06:20	06:56			06:37	07:13-07:40/27	07:16	08:48-09:15/27
	20:47	19:53-20:14/21	20:23	19:25-19:28/3	19:32	18:35			16:44		16:17	15:14-15:44/30
4	05:16	05:50-06:19/29	05:45	06:29-06:54/25	06:22	06:58			06:38	07:13-07:41/28	07:17	08:47-09:16/29
	20:47	19:53-20:14/21	20:22	19:21-19:33/12	19:30	18:33			16:42		16:17	15:14-15:45/31
5	05:16	05:50-06:19/29	05:46	06:28-06:56/28	06:23	06:59			06:40	07:12-07:41/29	07:18	08:46-09:18/32
	20:46	19:53-20:15/22	20:20	19:19-19:35/16	19:28	18:31			16:41		16:16	15:14-15:45/31
6	05:17	05:51-06:20/29	05:47	06:27-06:57/30	06:24	07:00			06:41	07:13-07:42/29	07:19	08:46-09:19/33
	20:46	19:53-20:16/23	20:19	19:17-19:37/20	19:26	18:30			16:40		16:16	15:14-15:46/32
7	05:18	05:50-06:20/30	05:49	06:26-06:58/32	06:25	07:01			06:42	07:12-07:41/29	07:20	08:46-09:20/34 15:15-15:46/31
	20:46	19:52-20:15/23	20:18	19:16-19:38/22	19:24	18:28			16:38		16:16	14:32-14:39/7
8	05:18	05:51-06:20/29	05:50	06:25-06:59/34	06:26	07:03			06:44	07:13-07:42/29	07:21	08:46-09:20/34 15:15-15:46/31
	20:45	19:53-20:16/23	20:16	19:15-19:38/23	19:22	18:26			16:37		16:16	14:30-14:41/11
9	05:19	05:51-06:21/30	05:51	06:24-07:00/36	06:28	07:04			06:45	07:13-07:41/28	07:22	08:46-09:21/35 15:15-15:47/32
	20:45	19:53-20:17/24	20:15	19:14-19:39/25	19:20	18:24			16:36		16:16	14:29-14:43/14
10	05:20	05:51-06:21/30	05:52	06:24-07:00/36	06:29	07:05			06:47	07:13-07:40/27	07:23	08:46-09:22/36 15:16-15:47/31
	20:44	19:52-20:16/24	20:13	19:13-19:40/27	19:19	18:22			16:35		16:16	14:28-14:45/17
11	05:21	05:50-06:21/31	05:53	06:23-07:01/38	06:30	07:06			06:48	07:14-07:41/27	07:24	08:46-09:23/37 15:16-15:48/32
	20:44	19:52-20:16/24	20:12	19:12-19:40/28	19:17	18:21			16:33		16:16	14:28-14:46/18
12	05:22	05:51-06:21/30	05:54	06:24-07:02/38	06:31	07:08			06:49	07:14-07:40/26	07:25	08:46-09:24/38 15:17-15:48/31
	20:43	19:52-20:16/24	20:10	19:11-19:40/29	19:15	18:19			16:32		16:16	14:27-14:48/21
13	05:22	05:51-06:22/31	05:56	06:23-07:02/39	06:32	07:09			06:51	07:15-07:40/25	07:26	08:47-09:25/38 15:18-15:48/30
	20:43	19:52-20:16/24	20:09	19:11-19:41/30	19:13	18:17			16:31		16:16	14:27-14:49/22
14	05:23	05:51-06:22/31	05:57	06:23-07:02/39	06:34	07:10			06:52	07:16-07:39/23	07:27	08:30-08:34/4 14:26-14:49/23
	20:42	19:53-20:15/22	20:07	19:11-19:41/30	19:11	18:15			16:30		16:16	08:46-09:25/39 15:17-15:47/30
15	05:24	05:52-06:22/30	05:58	06:23-07:02/39	06:35	07:12			06:53	07:18-07:38/20	07:27	08:30-08:36/6 14:27-14:50/23
	20:42	19:53-20:15/22	20:06	19:10-19:40/30	19:09	18:13			16:29		16:16	08:47-09:26/39 15:18-15:48/30
16	05:25	05:51-06:21/30	05:59	06:23-07:02/39	06:36	07:13			06:55	07:19-07:37/18	07:28	08:30-08:37/7 14:27-14:51/24
	20:41	19:52-20:13/21	20:04	19:10-19:39/29	19:07	18:12			16:28		16:16	08:47-09:27/40 15:19-15:48/29
17	05:26	05:51-06:21/30	06:00	06:23-07:02/39	06:37	07:14			06:56	07:21-07:36/15	07:29	08:30-08:38/8 14:27-14:52/25
	20:40	19:52-20:13/21	20:03	19:10-19:37/27	19:05	18:10			16:27		16:17	08:48-09:28/40 15:19-15:49/30
18	05:27	05:51-06:22/31	06:01	06:24-07:01/37	06:38	07:15			06:57	07:22-07:34/12	07:30	08:29-08:39/10 14:27-14:52/25
	20:39	19:52-20:12/20	20:01	19:10-19:35/25	19:03	18:08			16:26		16:17	08:48-09:27/39 15:19-15:48/29
19	05:28	05:52-06:22/30	06:03	06:25-07:01/36	06:39	07:17			06:59	07:25-07:31/6	07:30	08:30-08:40/10 14:28-14:53/25
	20:39	19:52-20:11/19	19:58	19:09-19:34/25	19:02	18:07			16:25	15:19-15:29/10	16:17	08:48-09:28/40 15:20-15:49/29
20	05:29	05:53-06:22/29	06:04	06:27-07:01/34	06:41	07:18			07:00	15:18-15:32/14	07:31	08:29-08:40/11 14:27-14:53/26
	20:38	19:53-20:11/18	19:56	19:10-19:32/22	19:00	18:05			16:24		16:18	08:48-09:28/40 15:20-15:49/29
21	05:30	05:54-06:21/27	06:05	06:28-07:00/32	06:42	07:19			07:01	15:16-15:34/18	07:31	08:30-08:41/11 14:28-14:54/26
	20:37	19:53-20:10/17	19:55	19:11-19:31/20	18:58	18:03			16:24		16:18	08:49-09:29/40 15:21-15:50/29
22	05:31	05:55-06:21/26	06:06	06:29-06:59/30	06:43	07:21			07:03	15:15-15:36/21	07:32	08:30-08:41/11 14:28-14:54/26
	20:36	19:53-20:09/16	19:53	19:11-19:29/18	18:56	18:02			16:23		16:19	08:49-09:29/40 15:21-15:50/29
23	05:32	05:56-06:21/25	06:07	06:30-06:58/28	06:44	07:22			07:04	15:14-15:37/23	07:32	08:31-08:42/11 14:29-14:55/26
	20:35	19:53-20:08/15	19:51	19:12-19:28/16	18:54	18:00			16:22		16:19	08:50-09:30/40 15:22-15:51/29
24	05:33	05:57-06:20/23	06:09	06:31-06:57/26	06:45	07:23			07:05	15:13-15:37/24	07:33	08:32-08:42/10 14:30-14:55/25
	20:34	19:54-20:07/13	19:49	19:13-19:26/13	18:52	17:58			16:21		16:20	08:50-09:30/40 15:22-15:51/29
25	05:34	05:58-06:20/22	06:10	06:32-06:55/23	06:47	07:25			07:06	15:14-15:39/25	07:33	08:33-08:43/10 14:31-14:56/25
	20:33	19:54-20:06/12	19:48	19:14-19:24/10	18:50	17:57			16:21		16:20	08:51-09:31/40 15:23-15:52/29
26	05:35	05:59-06:19/20	06:11	06:33-06:53/20	06:48	07:26			07:08	15:13-15:40/27	07:34	08:34-08:43/9 14:31-14:56/25
	20:32	19:55-20:05/10	19:46	19:16-19:22/6	18:48	17:55			16:20		16:21	08:52-09:32/40 15:23-15:53/30
27	05:36	06:00-06:18/18	06:12	06:35-06:52/17	06:49	07:27 08:22-08:31/9			07:09	15:13-15:40/27	07:34	08:34-08:42/8 14:32-14:56/24
	20:31	19:55-20:04/9	19:44		18:46	17:54			16:19		16:22	08:52-09:32/40 15:24-15:53/29
28	05:37	06:01-06:17/16	06:13	06:36-06:49/13	06:50	07:29 08:19-08:34/15			07:10	08:53-09:05/12	07:34	08:35-08:42/7 14:32-14:56/24
	20:30	19:56-20:03/7	19:42		18:45	17:52			16:19	15:13-15:41/28	16:22	08:52-09:32/40 15:24-15:54/30
29	05:38	06:02-06:16/14	06:15		06:52	07:30 08:17-08:36/19			07:11	08:51-09:08/17	07:34	08:38-08:42/4 14:33-14:56/23
	20:29	19:57-20:02/5	19:41		18:43	17:51			16:18	15:13-15:42/29	16:23	08:54-09:33/39 15:24-15:54/30
30	05:39	06:03-06:15/12	06:16		06:53	07:31 08:15-08:37/22			07:13	08:49-09:10/21	07:35	08:55-09:33/38 15:25-15:56/31
	20:28	19:58-20:01/3	19:39		18:41	17:49			16:18	15:13-15:42/29	16:24	14:35-14:57/22
31	05:41	06:04-06:12/8	06:17			07:33 08:15-08:39/24					07:35	08:55-09:33/38 15:26-15:57/31
	20:27	06:36-06:42/6	19:37			17:48					16:25	14:36-14:57/21
Potential sun hours	472		436		376		341		288		275	
Sum of minutes with flicker	1351		1343		0		89		775		2754	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 5

Licensed user:

EDR

217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 11 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (97)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	14:05-15:01/56	07:17	14:58-15:19/21	06:36	07:21-07:40/19	06:39	07:31-07:47/16	05:48	06:14-06:46/32	05:14	19:34-20:09/35
	16:26	15:01-15:27/26	17:04		17:43	15:58-16:51/53	19:24		20:00		20:35	
2	07:35	14:05-15:02/57	07:16	15:02-15:16/14	06:34	07:23-07:37/14	06:37	07:35-07:42/7	05:46	06:13-06:44/31	05:14	19:33-20:09/36
	16:27	15:02-15:27/25	17:06		17:45	15:58-16:50/52	19:25		20:01		20:35	
3	07:35	14:05-15:01/56	07:15		06:32	07:27-07:33/6	06:35		05:45	06:14-06:43/29	05:13	19:33-20:10/37
	16:28	15:01-15:27/26	17:07		17:46	15:59-16:49/50	19:26		20:03		20:36	
4	07:35	14:06-15:01/55	07:14	16:19-16:31/12	06:31	15:59-16:48/49	06:34		05:43	06:15-06:42/27	05:13	05:36-05:37/1
	16:29	15:01-15:27/26	17:08		17:48		19:27		20:04		20:37	19:33-20:10/37
5	07:35	14:07-15:02/55	07:13	16:14-16:34/20	06:29	16:00-16:46/46	06:32		05:42	06:15-06:40/25	05:12	05:36-05:40/4
	16:30	15:02-15:28/26	17:10		17:49		19:29		20:05		20:38	19:33-20:11/38
6	07:35	14:08-15:02/54	07:11	16:12-16:37/25	06:27	16:01-16:46/45	06:30		05:40	06:16-06:38/22	05:12	05:36-05:42/6
	16:31	15:02-15:28/26	17:11		17:50		19:30		20:06	06:38-06:39/1	20:39	19:33-20:12/39
7	07:34	14:09-15:02/53	07:10	16:10-16:40/30	06:25	16:02-16:45/43	06:28		05:39	06:18-06:38/20	05:11	05:35-05:42/7
	16:32	15:02-15:29/27	17:13		17:52		19:31		20:07		20:39	19:33-20:12/39
8	07:34	14:09-15:02/53	07:09	16:08-16:41/33	07:24	17:03-17:43/40	06:26		05:38	06:18-06:36/18	05:11	05:35-05:44/9
	16:33	15:02-15:28/26	17:14		18:53		19:32		20:09		20:40	19:33-20:13/40
9	07:34	14:10-15:02/52	07:07	16:07-16:43/36	07:22	17:05-17:41/36	06:24		05:36	06:20-06:34/14	05:11	05:35-05:45/10
	16:34	15:02-15:29/27	17:16		18:54		19:34		20:10		20:41	19:33-20:14/41
10	07:34	14:11-15:03/52	07:06	16:05-16:44/39	07:20	17:06-17:39/33	06:23		05:35	06:23-06:31/8	05:11	05:35-05:46/11
	16:35	15:03-15:30/27	17:17		18:55		19:35		20:11		20:41	19:34-20:15/41
11	07:33	14:12-15:02/50	07:05	07:27-07:36/9	07:18	07:40-07:52/12	06:21		05:34		05:10	05:35-05:47/12
	16:36	15:02-15:30/28	17:18	16:04-16:46/42	18:57	17:08-17:36/28	19:36		20:12		20:42	19:33-20:15/42
12	07:33	14:13-15:02/49	07:03	07:24-07:39/15	07:16	07:37-07:55/18	06:19		05:33		05:10	05:34-05:47/13
	16:37	15:02-15:30/28	17:20	16:02-16:47/45	18:58	17:12-17:34/22	19:38		20:13		20:43	19:33-20:15/42
13	07:33	14:14-15:02/48	07:02	07:23-07:41/18	07:14	07:35-07:57/22	06:17		05:31		05:10	05:34-05:47/13
	16:39	15:02-15:30/28	17:21	16:02-16:48/46	18:59	17:17-17:29/12	19:39		20:15		20:43	19:34-20:15/41
14	07:32	14:15-15:02/47	07:00	07:21-07:42/21	07:13	07:33-07:58/25	06:15	06:36-06:43/7	05:30		05:10	05:34-05:48/14
	16:40	15:02-15:31/29	17:23	16:01-16:49/48	19:01		19:40		20:16		20:44	19:34-20:16/42
15	07:32	14:16-15:01/45	06:59	07:20-07:44/24	07:11	07:31-07:59/28	06:14	06:34-06:45/11	05:29		05:10	05:34-05:48/14
	16:41	15:01-15:30/29	17:24	16:00-16:50/50	19:02		19:41		20:17		20:44	19:34-20:16/42
16	07:31	14:17-15:00/43	06:57	07:18-07:45/27	07:09	07:29-08:00/31	06:12	06:32-06:46/14	05:28		05:10	05:34-05:49/15
	16:42	15:00-15:30/30	17:26	15:59-16:50/51	19:03		19:43		20:18		20:45	19:34-20:16/42
17	07:31	14:19-15:01/42	06:56	07:18-07:46/28	07:07	07:27-08:00/33	06:10	06:31-06:48/17	05:27	19:46-19:54/8	05:10	05:34-05:49/15
	16:44	15:01-15:31/30	17:27	15:59-16:51/52	19:05		19:44		20:19		20:45	19:34-20:16/42
18	07:30	14:20-15:00/40	06:54	07:17-07:46/29	07:05	07:26-08:00/34	06:09	06:29-06:49/20	05:26	19:43-19:55/12	05:10	05:34-05:49/15
	16:45	15:00-15:30/30	17:28	15:58-16:51/53	19:06		19:45		20:20		20:45	19:34-20:17/43
19	07:29	14:22-14:59/37	06:53	07:17-07:47/30	07:03	07:26-08:01/35	06:07	06:27-06:49/22	05:25	19:41-19:56/15	05:10	05:35-05:50/15
	16:46	14:59-15:30/31	17:30	15:58-16:52/54	19:07		19:46		20:21		20:46	19:34-20:17/43
20	07:29	14:23-14:58/35	06:51	07:17-07:47/30	07:01	07:26-08:01/35	06:05	06:26-06:50/24	05:24	19:40-19:57/17	05:10	05:35-05:51/16
	16:48	14:58-15:30/32	17:31	15:58-16:52/54	19:08		19:48		20:23		20:46	19:36-20:18/42
21	07:28	14:26-14:57/31	06:49	07:16-07:46/30	07:00	07:25-08:01/36	06:03	06:24-06:50/26	05:23	19:38-19:58/20	05:10	05:35-05:51/16
	16:49	14:57-15:30/33	17:33	15:57-16:52/55	19:10		19:49		20:24		20:46	19:36-20:18/42
22	07:27	14:28-14:56/28	06:48	07:17-07:47/30	06:58	07:25-08:01/36	06:02	06:22-06:50/28	05:22	19:37-19:59/22	05:11	05:35-05:51/16
	16:50	14:56-15:30/34	17:34	15:57-16:53/56	19:11		19:50		20:25		20:47	19:36-20:18/42
23	07:26	14:31-14:54/23	06:46	07:16-07:46/30	06:56	07:24-08:00/36	06:00	06:21-06:50/29	05:21	19:37-20:01/24	05:11	05:35-05:50/15
	16:52	14:54-15:29/35	17:35	15:57-16:52/55	19:12		19:51		20:26		20:47	19:35-20:18/43
24	07:25	14:34-14:51/17	06:44	07:16-07:45/29	06:54	07:24-07:59/35	05:59	06:19-06:50/31	05:20	19:36-20:01/25	05:11	05:36-05:51/15
	16:53	14:51-15:29/38	17:37	15:57-16:52/55	19:14		19:53		20:27		20:47	19:36-20:19/43
25	07:24	14:45-15:28/43	06:43	07:17-07:45/28	06:52	07:24-07:58/34	05:57	06:18-06:50/32	05:19	19:35-20:02/27	05:11	05:36-05:51/15
	16:54		17:38	15:57-16:53/56	19:15		19:54		20:28		20:47	19:36-20:18/42
26	07:24	14:46-15:28/42	06:41	07:18-07:44/26	06:50	07:24-07:57/33	05:55	06:16-06:49/33	05:18	19:35-20:03/28	05:12	05:36-05:51/15
	16:56		17:39	15:57-16:52/55	19:16		19:55		20:29		20:47	19:36-20:18/42
27	07:23	14:48-15:27/39	06:39	07:18-07:43/25	06:48	07:25-07:57/32	05:54	06:15-06:49/34	05:18	19:35-20:04/29	05:12	05:37-05:51/14
	16:57		17:41	15:57-16:51/54	19:17		19:56		20:30		20:47	19:37-20:19/42
28	07:22	14:49-15:26/37	06:38	07:19-07:41/22	06:46	07:26-07:56/30	05:52	06:13-06:48/35	05:17	19:34-20:05/31	05:13	05:37-05:51/14
	17:00		17:42	15:57-16:51/54	19:19		19:58		20:31		20:47	19:37-20:19/42
29	07:21	14:51-15:25/34			06:45	07:27-07:54/27	05:51	06:13-06:48/35	05:16	19:34-20:05/31	05:13	05:38-05:51/13
	17:01				19:20		19:59		20:32		20:47	19:38-20:20/42
30	07:19	14:53-15:24/31			06:43	07:28-07:52/24	05:49	06:13-06:47/34	05:15	19:34-20:07/33	05:13	05:38-05:51/13
	17:03				19:21		20:00		20:33		20:47	19:37-20:19/42
31	07:18	14:55-15:21/26			06:41	07:29-07:50/21			05:15	19:33-20:07/34		
	Potential sun hours	286			19:22				20:34			
	Sum of minutes with flicker	2027	291	1616	369	1165	404	455	583	1562		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 6

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 11 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (97)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14	05:39-05:51/12	05:42		06:18		06:54	07:15-07:35/20	06:34	15:35-16:14/39	07:14	13:54-14:44/50
	20:47	19:38-20:20/42	20:25		19:35		18:39	16:52-17:11/19	16:46		16:17	14:44-15:12/28
2	05:15	05:39-05:50/11	05:43		06:19		06:55	07:16-07:32/16	06:35	15:37-16:13/36	07:15	13:54-14:45/51
	20:47	19:38-20:19/41	20:24		19:33		18:37	16:48-17:14/26	16:45		16:17	14:45-15:12/27
3	05:15	05:40-05:50/10	05:44	06:32-06:42/10	06:20		06:56	07:22-07:27/5	06:37	15:38-16:11/33	07:16	13:54-14:46/52
	20:47	19:39-20:19/40	20:23		19:32		18:35	16:46-17:16/30	16:43		16:17	14:46-15:13/27
4	05:16	05:40-05:49/9	05:45	06:30-06:45/15	06:22		06:58	16:43-17:18/35	06:38	15:39-16:09/30	07:17	13:54-14:47/53
	20:47	19:38-20:19/41	20:22		19:30		18:33		16:42		16:16	14:47-15:14/27
5	05:16	05:41-05:49/8	05:46	06:28-06:47/19	06:23		06:59	16:41-17:19/38	06:40	15:42-16:07/25	07:18	13:54-14:47/53
	20:46	19:39-20:19/40	20:20		19:28		18:31		16:41		16:16	14:47-15:14/27
6	05:17	05:42-05:49/7	05:47	06:27-06:48/21	06:24		07:00	16:39-17:20/41	06:41	15:45-16:04/19	07:19	13:54-14:48/54
	20:46	19:40-20:19/39	20:19		19:26		18:30		16:39		16:16	14:48-15:14/26
7	05:18	05:42-05:47/5	05:48	06:26-06:48/22	06:25		07:01	16:38-17:21/43	06:42	15:50-16:00/10	07:20	13:54-14:49/55
	20:46	19:39-20:18/39	20:18	06:48-06:49/1	19:24		18:28		16:38		16:16	14:49-15:15/26
8	05:18	05:43-05:46/3	05:50	06:24-06:50/26	06:26		07:03	16:36-17:22/46	06:44		07:21	13:54-14:49/55
	20:45	19:40-20:18/38	20:16		19:22		18:26		16:37		16:16	14:49-15:15/26
9	05:19	19:40-20:18/38	05:51	06:23-06:51/28	06:28		07:04	16:34-17:22/48	06:45	14:32-14:47/15	07:22	13:54-14:50/56
	20:45		20:15		19:20		18:24		16:36		16:16	14:50-15:16/26
10	05:20	19:40-20:16/36	05:52	06:23-06:52/29	06:29	07:29-07:34/5	07:05	16:33-17:22/49	06:46	14:28-14:50/22	07:23	13:54-14:51/57
	20:44		20:13		19:19		18:22		16:35		16:16	14:51-15:16/25
11	05:21	19:41-20:16/35	05:53	06:22-06:53/31	06:30	07:24-07:40/16	07:06	07:59-08:09/10	06:48	14:26-14:53/27	07:24	13:55-14:51/56
	20:44		20:12		19:17		18:20	16:33-17:23/50	16:33		16:16	14:51-15:17/26
12	05:22	19:41-20:16/35	05:54	06:21-06:54/33	06:31	07:21-07:42/21	07:08	07:55-08:12/17	06:49	14:24-14:55/31	07:25	13:55-14:52/57
	20:43		20:10		19:15		18:19	16:31-17:23/52	16:32		16:16	14:52-15:17/25
13	05:22	19:42-20:16/34	05:55	06:22-06:55/33	06:32	07:19-07:43/24	07:09	07:54-08:14/20	06:51	14:23-14:57/34	07:26	13:56-14:53/57
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14	05:23	19:43-20:15/32	05:57	06:21-06:56/35	06:33	07:17-07:44/27	07:10	07:52-08:15/23	06:52	14:21-14:58/37	07:27	13:55-14:53/58
	20:42		20:07		19:11		18:15	16:30-17:24/54	16:30		16:16	14:53-15:17/24
15	05:24	19:42-20:14/32	05:58	06:21-06:56/35	06:35	07:15-07:45/30	07:11	07:50-08:16/26	06:53	14:21-15:00/39	07:27	13:56-14:53/57
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16	05:25	19:43-20:13/30	05:59	06:22-06:56/34	06:36	07:14-07:45/31	07:13	07:50-08:17/27	06:55	14:19-15:01/42	07:28	13:56-14:54/58
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17	05:26	19:44-20:13/29	06:00	06:23-06:56/33	06:37	07:13-07:46/33	07:14	07:49-08:17/28	06:56	14:18-15:01/43	07:29	13:56-14:54/58
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30	05:39		06:16		06:53	07:14-07:37/23	07:31	07:54-08:08/14	07:12	13:54-14:43/49	07:35	14:02-15:00/58
	20:28		19:39		18:41	17:00-17:04/4	17:49	16:32-17:16/44	16:18	14:43-15:11/28	16:24	15:00-15:25/25
31	05:40		06:17				07:33	07:58-08:05/7			07:35	14:04-15:01/57
	20:27		19:37				17:48	16:34-17:16/42			16:25	15:01-15:26/25
Potential sun hours	472		436		376		341		288		275	
Sum of minutes with flicker	870		663		616		1998		1373		2533	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 7

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 12 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (98)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	07:35	08:28-09:00/32	15:13-15:38/25	07:17		06:36	16:43-17:06/23	06:39		05:48	06:09-06:48/39		05:14	05:38-06:28/50				
	16:26	09:07-09:18/11		17:04		17:43		19:24		20:00	19:08-19:37/29		20:34	06:19-06:36/17				
2	07:35	08:29-09:00/31	15:14-15:38/24	07:16		06:34	16:44-17:06/22	06:37		05:46	06:07-06:47/40		05:14	05:37-06:28/51				
	16:27	09:08-09:17/9		17:06		17:45		19:25		20:01	19:08-19:37/29		20:35	06:19-06:36/17				
3	07:35	08:30-09:00/30	15:15-15:39/24	07:15		06:32	16:45-17:04/19	06:35		05:45	06:06-06:46/40	19:37-19:39/2	05:13	05:37-06:28/51				
	16:28	09:11-09:15/4		17:07		17:46		19:26		20:02	19:09-19:37/28		20:36	06:19-06:36/17				
4	07:35	08:31-09:00/29		07:14		06:31	16:46-17:02/16	06:33		05:43	06:04-06:45/41	19:36-19:39/3	05:13	05:36-06:28/52				
	16:29	15:16-15:39/23		17:08		17:47		19:27		20:04	19:09-19:36/27		20:37	06:18-06:36/18				
5	07:35	08:31-09:01/30		07:12		06:29	16:49-16:59/10	06:32		05:42	06:03-06:44/41	19:35-19:41/6	05:12	05:36-06:28/52				
	16:30	15:17-15:39/22		17:10		17:49		19:29		20:05	19:10-19:35/25		20:38	06:19-06:37/18				
6	07:35	08:32-09:01/29		07:11		06:27		06:30		05:40	06:02-06:43/41	19:34-19:42/8	05:12	05:36-06:29/53				
	16:31	15:18-15:40/22		17:11		17:50		19:30		20:06	19:12-19:34/22		20:38	06:19-06:38/19				
7	07:34	08:33-09:01/28		07:10		06:25		06:28		05:39	06:00-06:43/43	19:32-19:43/11	05:11	05:35-06:29/54				
	16:32	15:19-15:40/21		17:13		17:51		19:31		20:07	19:12-19:32/20		20:39	06:19-06:37/18				
8	07:34	08:34-09:01/27		07:09		07:24		06:26		05:38	05:59-06:40/41	19:31-19:44/13	05:11	05:35-06:29/54				
	16:33	15:19-15:39/20		17:14		18:53		19:32		20:09	19:14-19:31/17		20:40	06:19-06:38/19				
9	07:34	08:35-09:01/26		07:07		07:22		06:24		05:36	05:58-06:39/41	19:28-19:46/18	05:11	05:35-06:29/54				
	16:34	15:20-15:39/19		17:16		18:54		19:34		20:10	19:16-19:28/12		20:41	06:19-06:38/19				
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	16:35	15:22-15:40/18		17:17		18:55		19:35		20:11	06:28-06:37/9		20:41	06:21-06:39/18				
11	07:33	08:37-09:00/23		07:04		07:18		06:21		05:34	05:56-06:29/33	19:26-19:45/19	05:10	05:34-06:29/55				
	16:36	15:22-15:39/17		17:18		18:57		19:36		20:12	06:27-06:34/7		20:42	06:20-06:38/18				
12	07:33	08:38-09:00/22		07:03		07:16		06:19		05:33	05:54-06:26/32	06:25-06:29/4	05:10	05:34-06:30/56				
	16:37	15:24-15:39/15		17:20		18:58		19:37		20:13	06:21-06:22/1	19:27-19:44/17	20:42	06:20-06:39/19				
13	07:33	08:39-08:59/20		07:02		07:14		06:17		05:31	05:53-06:25/32	06:24-06:29/5	05:10	05:34-06:30/56				
	16:39	15:25-15:37/12		17:21		18:59		19:39		20:14	06:21-06:22/1	19:29-19:43/14	20:43	06:20-06:39/19				
14	07:32	08:41-08:59/18		07:00	16:50-16:55/5	07:13		06:15	06:36-06:41/5	05:30	05:52-06:24/32	06:24-06:29/5	05:10	05:34-06:30/56				
	16:40	15:28-15:36/8		17:23		19:01		19:40		20:16	06:20-06:22/2	19:31-19:41/10	20:44	06:19-06:39/20				
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17	07:30	08:49-08:52/3		06:56	16:43-16:58/15	07:07		06:10	06:31-06:37/6	05:27	05:49-06:24/35		05:10	05:34-06:31/57				
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29	07:20					06:45		05:51	06:12-06:49/37	05:16	05:39-06:26/47		05:13	05:38-06:34/56				
	17:00					19:20		19:59	19:07-19:34/27	20:32	06:18-06:34/16		20:47	06:24-06:43/19				
30	07:19					06:43		05:49	06:10-06:48/38	05:15	05:39-06:27/48		05:13	05:38-06:34/56				
	17:01					19:21		20:00	19:08-19:35/27	20:33	06:19-06:35/16		20:47	06:24-06:43/19				
31	07:18					06:41				05:15	05:38-06:27/49							
	17:03					19:22				20:34	06:18-06:35/17							
Potential sun hours	286			291		369		404		459			466					
Sum of minutes with flicker	692			342		90		664		1710			1937					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 8

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 12 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (98)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14 05:39-06:35/56	05:42 06:05-06:37/32	19:38-19:55/17	06:18 06:54	06:34	07:14 08:19-08:42/23					
2	20:47 06:25-06:43/18	20:25 06:36-06:40/4		19:35 18:39	16:46	16:17 15:04-15:21/17					
3	05:15 05:39-06:34/55	05:43 06:06-06:38/32	19:36-19:56/20	06:19 06:55	06:35	07:15 08:18-08:43/25					
4	20:47 06:25-06:43/18	20:24 06:36-06:45/9		19:33 18:37	16:45	16:17 15:04-15:22/18					
5	05:15 05:40-06:34/54	05:44 06:07-06:47/40	19:36-19:56/20	06:20 06:56	06:37	07:16 08:18-08:44/26					
6	20:47 06:24-06:44/20	20:23 19:28-19:36/8		19:31 18:35	16:43	16:17 15:03-15:22/19					
7	05:16 05:40-06:34/54	05:45 06:09-06:50/41	19:39-19:55/16	06:22 06:58	06:38	07:17 08:19-08:46/27					
8	20:46 06:24-06:43/19	20:21 19:25-19:39/14		19:30 18:33	16:42	16:16 15:04-15:24/20					
9	05:16 05:41-06:35/54	05:46 06:10-06:51/41	19:42-19:54/12	06:23 06:59	06:39	07:18 08:19-08:46/27					
10	20:46 06:25-06:43/18	20:20 19:24-19:42/18		19:28 18:31	16:41	16:16 15:04-15:25/21					
11	05:17 05:42-06:35/53	05:47 06:11-06:52/41	19:43-19:53/10	06:24 07:00	06:41	07:19 08:19-08:47/28					
12	20:46 06:25-06:44/19	20:19 19:22-19:43/21		19:26 18:29	16:39	16:16 15:04-15:26/22					
13	05:18 05:42-06:35/53	05:48 06:12-06:53/41	19:44-19:52/8	06:25 07:01	06:42	07:20 08:19-08:48/29					
14	20:46 06:25-06:43/18	20:17 19:21-19:44/23		19:24 18:28	16:38	16:16 15:04-15:26/22					
15	05:18 05:43-06:35/52	05:50 06:13-06:54/41	19:45-19:50/5	06:26 07:02	17:27-17:33/6	06:44	07:21 08:19-08:48/29				
16	20:45 06:26-06:44/18	20:16 19:20-19:45/25		19:22 18:26	16:37	16:16 15:04-15:27/23					
17	05:19 05:44-06:35/51	05:51 06:14-06:55/41	19:45-19:49/4	06:27 07:04	17:22-17:36/14	06:45	07:22 08:19-08:49/30	15:04-15:28/24			
18	20:45 06:26-06:44/18	20:15 19:19-19:45/26		19:20 18:24	16:36	16:16 09:01-09:03/2					
19	05:20 05:44-06:35/51	05:52 06:15-06:55/40	19:46-19:47/1	06:29 07:05	17:20-17:37/17	06:46	07:23 08:19-08:50/31	15:04-15:29/25			
20	20:44 06:26-06:43/17	20:13 19:18-19:46/28		19:18 18:22	16:35	16:16 08:59-09:07/8					
21	05:21 05:45-06:35/50	05:53 06:16-06:55/39		06:30 07:06	17:19-17:39/20	06:48	07:24 08:19-08:51/32	15:04-15:29/25			
22	20:44 06:27-06:43/16	20:12 19:17-19:46/29		19:17 18:20	16:33	16:16 08:58-09:09/11					
23	05:22 05:46-06:35/49	05:54 06:17-06:56/39		06:31 07:08	17:17-17:39/22	06:49	07:25 08:20-08:51/31	15:05-15:30/25			
24	20:43 06:27-06:43/16	20:10 19:16-19:44/28		19:15 18:19	16:32	16:16 08:57-09:10/13					
25	05:22 05:47-06:35/48	05:55 06:19-06:57/38		06:32 07:09	17:16-17:39/23	06:50	07:26 08:19-08:51/32	15:04-15:30/26			
26	20:43 06:27-06:43/16	20:09 19:15-19:43/28		19:13 18:17	16:31	16:16 08:56-09:11/15					
27	05:23 05:48-06:35/47	05:57 06:20-06:57/37		06:33 07:10	17:15-17:40/25	06:52	07:26 08:20-08:52/32	15:05-15:30/25			
28	20:42 06:27-06:43/16	20:07 19:16-19:42/26		19:11 18:15	16:30	16:16 08:56-09:12/16					
29	05:24 05:49-06:36/47	05:58 06:21-06:57/36		06:35 07:11	17:13-17:40/27	06:53	07:27 08:20-08:53/33	15:05-15:31/26			
30	20:41 06:28-06:43/15	20:06 19:15-19:40/25		19:09 18:13	16:29	16:16 08:56-09:13/17					
31	05:25 05:49-06:35/46	05:59 06:22-06:56/34		06:36 07:13	17:12-17:40/28	06:54	07:28 08:21-08:53/32	15:06-15:32/26			
32	20:41 06:27-06:42/15	20:04 19:15-19:39/24		19:07 18:12	16:28	16:16 08:57-09:14/17					
33	05:26 05:50-06:36/46	06:00 06:23-06:56/33		06:37 07:14	17:12-17:40/28	06:56	07:29 08:21-08:53/32	15:06-15:32/26			
34	20:40 06:28-06:42/14	20:03 19:15-19:37/22		19:05 18:10	16:27	16:17 08:56-09:15/19					
35	05:27 05:51-06:36/45	06:01 06:24-06:56/32		06:38 07:15	17:11-17:39/28	06:57	07:29 08:22-08:54/32	15:07-15:33/26			
36	20:39 06:27-06:42/15	20:01 19:15-19:35/20		19:03 18:08	16:26	16:17 08:57-09:16/19					
37	05:28 05:52-06:35/43	06:03 06:25-06:55/30		06:39 07:17	17:10-17:38/28	06:58	07:30 08:22-08:55/33	15:07-15:34/27			
38	20:38 06:27-06:41/14	19:58 19:15-19:34/19		19:01 18:07	16:25	16:17 08:57-09:17/20					
39	05:29 05:53-06:35/42	06:04 06:26-06:55/29		06:41 07:18	17:11-17:38/27	07:00	07:31 08:22-08:55/33	15:07-15:33/26			
40	20:38 06:27-06:41/14	19:56 19:15-19:32/17		19:00 18:05	16:24	16:18 08:57-09:17/20					
41	05:30 05:54-06:36/42	06:05 06:28-06:55/27		06:42 07:19	17:10-17:36/26	07:01	07:31 08:23-08:56/33	15:08-15:34/26			
42	20:37 06:27-06:41/14	19:54 19:16-19:31/15		18:58 18:03	16:24	16:18 08:58-09:18/20					
43	05:31 05:55-06:32/37	06:06 06:29-06:54/25		06:43 07:21	17:11-17:36/25	07:02	07:32 08:23-08:56/33	15:08-15:34/26			
44	20:36 06:17-06:40/23	19:53 19:17-19:29/12		18:56 18:02	16:23	16:19 08:58-09:18/20					
45	05:32 05:56-06:33/37	06:07 06:30-06:53/23		06:44 07:22	17:11-17:34/23	07:04	07:32 08:24-08:57/33	15:09-15:35/26			
46	20:35 06:19-06:40/21	19:51 19:17-19:28/11		18:54 18:00	16:22	16:19 08:59-09:19/20					
47	05:33 05:57-06:33/36	06:08 06:31-06:52/21		06:45 07:23	17:12-17:32/20	07:05	07:33 08:24-08:57/33	15:09-15:36/27			
48	20:34 06:21-06:40/19	19:49 19:18-19:26/8		18:52 17:58	16:21	16:20 08:59-09:19/20					
49	05:34 05:58-06:34/36	06:10 06:32-06:50/18		06:47 07:25	17:13-17:32/19	07:06	08:28-08:30/2	15:10-15:36/26			
50	20:33 06:24-06:39/15	19:48 19:20-19:24/4		18:50 17:57	16:21	16:20 08:59-09:19/20					
51	05:35 05:59-06:34/35	06:11 06:33-06:38/5		06:48 07:26	17:14-17:30/16	07:08	08:24-08:34/10	15:11-15:37/26			
52	20:32 06:26-06:39/13	19:46 06:38-06:49/11		18:48 17:55	16:20	16:21 09:01-09:20/19					
53	05:36 06:00-06:35/35	06:12 06:34-06:36/2		06:49 07:27	17:17-17:28/11	07:09	08:22-08:36/14	15:11-15:37/26			
54	20:31 06:26-06:39/11	19:44 06:36-06:47/11		18:46 17:54	16:19	16:22 09:01-09:19/18					
55	05:37 06:01-06:34/33	06:13 06:36-06:45/9		06:50 07:29		07:10 08:20-08:38/18	07:34 08:26-08:59/33	15:11-15:37/26			
56	20:30 06:29-06:40/11	19:42		18:44 17:52	16:19	15:07-15:15/8	16:22 09:02-09:19/17				
57	05:38 06:02-06:34/32	19:43-19:50/7	06:14 06:37-06:42/5	06:51 07:30		07:11 08:20-08:40/20	07:34 08:27-08:59/32	15:12-15:37/25			
58	20:29 06:30-06:40/10	19:40		18:42 17:51	16:18	15:07-15:18/11	16:23 09:03-09:19/16				
59	05:39 06:03-06:35/32	06:34-06:40/6	06:16	06:53 07:31		07:12 08:19-08:41/22	07:34 08:27-08:59/32	15:12-15:38/26			
60	20:28 06:31-06:33/2	19:41-19:52/11	19:39	18:41 17:49		16:18 15:05-15:20/15	16:24 09:04-09:19/15				
61	05:40 06:04-06:36/32	06:35-06:40/5	06:17		07:33		07:35 08:28-08:59/31	15:13-15:38/25			
62	20:26 06:31-06:32/1	19:39-19:54/15	19:37		17:48		16:25 09:05-09:19/14				
Potential sun hours		472		376	341	288	120	2084			
Sum of minutes with flicker		1637	1468	0	433						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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Licensed user:

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 13 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (99)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	08:51-09:07/16	07:17	07:57-08:43/46	06:36	06:39	07:47-08:19/32	05:48	06:18-06:50/32	05:14	05:45-06:36/51	
	16:26		17:04		17:44		19:24	20:00	06:50-07:32/42	20:35	06:36-06:46/10	
2	07:35	08:52-09:07/15	07:16	07:57-08:44/47	06:34	06:37	07:48-08:17/29	05:46	06:17-06:49/32	06:51-07:30/39	05:14	05:45-06:36/51
	16:27		17:06		17:45		19:25	20:01	06:49-06:50/1	20:35	06:36-06:45/9	
3	07:35	08:54-09:07/13	07:15	07:57-08:45/48	06:33	06:35	07:11-07:27/16	05:45	06:18-06:49/31	05:13	05:45-06:37/52	
	16:28		17:07		17:46		19:26	07:51-08:15/24	20:03	06:52-07:29/37	20:36	06:37-06:46/9
4	07:35	08:54-09:05/11	07:14	07:57-08:46/49	06:31	06:34	07:07-07:30/23	05:43	06:18-06:48/30	05:13	05:44-06:37/53	
	16:29		17:09		17:48		19:28	07:54-08:11/17	20:04	06:54-07:28/34	20:37	06:37-06:45/8
5	07:35	08:57-09:04/7	07:13	07:56-08:46/50	06:29	07:04-07:20/16	06:32	07:04-07:32/28	05:42	06:12-06:46/34	05:12	05:44-06:38/54
	16:30		17:10		17:49		19:29	08:00-08:03/3	20:05	06:54-07:26/32	20:38	06:38-06:46/8
6	07:35		07:11	07:56-08:47/51	06:27	07:00-07:24/24	06:30	07:01-07:34/33	05:41	06:09-06:46/37	05:12	05:45-06:39/54
	16:31		17:11		17:50		19:30	20:06	06:56-07:25/29	20:39	06:39-06:46/7	
7	07:35		07:10	07:56-08:47/51	06:25	06:57-07:26/29	06:28	06:59-07:35/36	05:39	06:07-06:45/38	05:12	05:44-06:38/54
	16:32		17:13		17:52		19:31	20:08	06:58-07:23/25	20:39	06:38-06:46/8	
8	07:34		07:09	07:55-08:47/52	06:24	07:55-08:27/32	06:26	06:57-07:36/39	05:38	06:04-06:43/39	05:11	05:44-06:39/55
	16:33		17:14		18:53		19:33	20:09	06:59-07:20/21	20:40	06:39-06:46/7	
9	07:34		07:07	07:56-08:47/51	06:22	07:53-08:29/36	06:24	06:56-07:38/42	05:36	06:03-06:42/39	05:11	05:45-06:39/54
	16:34		17:16		18:54		19:34	20:10	07:02-07:18/16	20:41	06:39-06:47/8	
10	07:34		07:06	07:55-08:47/52	06:20	07:51-08:30/39	06:23	06:55-07:38/43	05:35	06:02-06:41/39	05:11	05:45-06:40/55
	16:35		17:17		18:56		19:35	20:11	07:07-07:13/6	20:41	06:40-06:47/7	
11	07:34		07:05	07:56-08:47/51	06:18	07:50-08:31/41	06:21	06:53-07:39/46	05:34	06:01-06:40/39	05:10	05:45-06:40/55
	16:36		17:19		18:57		19:36	20:12		20:42	06:40-06:47/7	
12	07:33		07:03	07:56-08:48/52	06:16	07:49-08:32/43	06:19	06:52-07:39/47	05:33	06:00-06:38/38	05:10	05:44-06:40/56
	16:38		17:20		18:58		19:38	20:14	06:38-06:39/1	20:43	06:40-06:46/6	
13	07:33		07:02	07:56-08:47/51	06:15	07:48-08:32/44	06:17	06:41-06:47/6	05:31	05:58-06:39/41	05:10	05:44-06:40/56
	16:39		17:21		19:00		19:39	06:52-07:40/48	20:15		20:43	06:40-06:47/7
14	07:32		07:00	07:57-08:47/50	06:13	07:46-08:33/47	06:16	06:37-07:40/63	05:30	05:57-06:40/43	05:10	05:45-06:41/56
	16:40		17:23		19:01		19:40	20:16		20:44	06:41-06:47/6	
15	07:32		06:59	07:56-08:46/50	06:11	07:45-08:33/48	06:14	06:34-07:40/66	05:29	05:57-06:13/16	05:10	05:45-06:41/56
	16:41		17:24		19:02		19:41	20:17	06:13-06:40/27	20:44	06:41-06:47/6	
16	07:31		06:57	07:56-08:45/49	06:09	07:45-08:33/48	06:12	06:32-07:40/68	05:28	05:56-06:18/22	05:10	05:45-06:41/56
	16:42		17:26		19:03		19:43	20:18	06:18-06:41/23	20:45	06:41-06:47/6	
17	07:31		06:56	07:57-08:45/48	06:07	07:44-08:33/49	06:10	06:31-07:40/69	05:27	05:56-06:21/25	05:10	05:45-06:41/56
	16:44		17:27		19:05		19:44	20:19	06:21-06:42/21	20:45	06:41-06:47/6	
18	07:30		06:54	07:57-08:44/47	06:05	07:44-08:34/50	06:09	06:29-06:40/11	05:26	05:55-06:23/28	05:10	05:46-06:43/57
	16:45		17:28		19:06		19:45	06:40-07:40/60	20:20	06:23-06:42/19	20:46	06:43-06:48/5
19	07:29	08:12-08:22/10	06:53	07:59-08:44/45	06:03	07:43-08:33/50	06:07	06:27-06:43/16	05:25	05:54-06:24/30	05:10	05:46-06:43/57
	16:46		17:30		19:07		19:46	06:43-07:39/56	20:22	06:24-06:42/18	20:46	06:43-06:48/5
20	07:29	08:10-08:27/17	06:51	07:59-08:43/44	06:02	07:43-08:33/50	06:05	06:26-06:46/20	05:24	05:52-06:26/34	05:10	05:46-06:43/57
	16:48		17:31		19:09		19:48	06:46-07:40/54	20:23	06:26-06:43/17	20:46	06:43-06:48/5
21	07:28	08:08-08:29/21	06:49	08:00-08:41/41	06:00	07:43-08:32/49	06:04	06:24-06:47/23	05:23	05:51-06:27/36	05:10	05:46-06:43/57
	16:49		17:33		19:10		19:49	06:47-07:39/52	20:24	06:27-06:43/16	20:46	06:43-06:48/5
22	07:27	08:06-08:31/25	06:48	08:01-08:40/39	06:58	07:42-08:32/50	06:02	06:22-06:49/27	05:22	05:51-06:29/38	05:11	05:46-06:43/57
	16:50		17:34		19:11		19:50	06:48-07:38/50	20:25	06:29-06:44/15	20:47	06:43-06:48/5
23	07:26	08:04-08:33/29	06:46	08:02-08:38/36	06:56	07:42-08:31/49	06:00	06:21-06:50/29	05:21	05:50-06:30/40	05:11	05:46-06:43/57
	16:52		17:35		19:12		19:51	06:49-07:38/49	20:26	06:30-06:44/14	20:47	06:43-06:48/5
24	07:25	08:03-08:35/32	06:45	08:03-08:36/33	06:54	07:42-08:30/48	05:59	06:20-06:50/30	05:20	05:49-06:31/42	05:11	05:47-06:44/57
	16:53		17:37		19:14		19:53	06:49-07:37/48	20:27	06:31-06:44/13	20:47	06:44-06:49/5
25	07:25	08:02-08:36/34	06:43	08:06-08:35/29	06:52	07:42-08:29/47	05:57	06:19-06:51/32	05:19	05:48-06:31/43	05:12	05:47-06:43/56
	16:54		17:38		19:15		19:54	06:50-07:37/47	20:28	06:31-06:44/13	20:47	06:43-06:49/6
26	07:24	08:01-08:37/36	06:41	08:08-08:32/24	06:50	07:42-08:28/46	05:55	06:18-06:51/33	05:18	05:47-06:32/45	05:12	05:47-06:43/56
	16:56		17:40		19:16		19:55	06:50-07:36/46	20:29	06:32-06:44/12	20:47	06:43-06:49/6
27	07:23	08:00-08:39/39	06:39	08:10-08:28/18	06:48	07:43-08:28/45	05:54	06:18-06:51/33	05:18	05:47-06:33/46	05:12	05:48-06:44/56
	16:57		17:41		19:17		19:56	06:50-07:36/46	20:30	06:33-06:45/12	20:47	06:44-06:50/6
28	07:22	08:00-08:40/40	06:38	08:17-08:21/4	06:47	07:44-08:26/42	05:52	06:18-06:51/33	05:17	05:46-06:34/48	05:13	05:48-06:44/56
	16:59		17:42		19:19		19:58	06:50-07:35/45	20:31	06:34-06:45/11	20:47	06:44-06:50/6
29	07:21	07:59-08:41/42			06:45	07:44-08:25/41	05:51	06:18-06:51/33	05:16	05:46-06:34/48	05:13	05:48-06:44/56
	17:00				19:20		19:59	06:50-07:34/44	20:32	06:34-06:45/11	20:47	06:44-06:51/7
30	07:20	07:59-08:42/43			06:43	07:45-08:23/38	05:49	06:17-06:51/34	05:16	05:46-06:35/49	05:14	05:48-06:44/56
	17:01				19:21		20:00	06:50-07:33/43	20:33	06:35-06:45/10	20:47	06:44-06:50/6
31	07:19	07:58-08:43/45			06:41	07:46-08:21/35			05:15	05:45-06:35/50		
	17:03				19:22				20:34	06:35-06:45/10		
Potential sun hours	286		291		369		404		459		466	
Sum of minutes with flicker	475		1208		1136		1764		1697		1856	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 10

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 13 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (99)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December		
1	05:14	05:49-06:45/56	05:42	06:10-06:48/38	06:18	06:52-07:38/46	06:54	07:27-08:11/44	06:34	07:25-08:17/52	07:14		
	20:47	06:45-06:51/6	20:25		19:35		18:39		16:46		16:18		
2	05:15	05:49-06:44/55	05:43	06:11-06:51/40	06:19	06:53-07:36/43	06:55	07:28-08:10/42	06:36	07:25-08:17/52	07:15		
	20:47	06:44-06:51/7	20:24		19:33		18:37		16:45		16:17		
3	05:15	05:50-06:45/55	05:44	06:13-06:52/39	06:21	06:53-07:35/42	06:56	07:29-08:09/40	06:37	07:25-08:17/52	07:16		
	20:47	06:45-06:52/7	20:23	07:15-07:26/11	19:32		18:35		16:44		16:17		
4	05:16	05:49-06:44/55	05:45	06:14-06:53/39	06:22	06:55-07:34/39	06:58	07:30-08:07/37	06:38	07:26-08:17/51	07:17		
	20:47	06:44-06:51/7	20:22	07:11-07:29/18	19:30		18:33		16:42		16:17		
5	05:16	05:50-06:44/54	05:46	06:15-06:54/39	06:23	06:56-07:32/36	06:59	07:31-08:05/34	06:40	07:26-08:16/50	07:18		
	20:46	06:44-06:52/8	20:20	07:09-07:32/23	19:28		18:31		16:41		16:16		
6	05:17	05:51-06:45/54	05:47	06:17-06:55/38	06:24	06:57-07:30/33	07:00	07:32-08:03/31	06:41	07:27-08:17/50	07:19		
	20:46	06:45-06:53/8	20:19	07:07-07:34/27	19:26		18:30		16:40		16:16		
7	05:18	05:51-06:44/53	05:49	06:19-06:56/37	06:25	06:59-07:28/29	07:01	07:35-08:01/26	06:42	07:27-08:16/49	07:20	08:44-08:50/6	
	20:46	06:44-06:52/8	20:18	07:05-07:35/30	19:24		18:28		16:38		16:16		
8	05:19	05:51-06:44/53	05:50	06:23-06:56/33	06:26	07:01-07:25/24	07:03	07:37-07:57/20	06:44	07:27-08:15/48	07:21	08:43-08:53/10	
	20:45	06:44-06:53/9	20:16	07:03-07:36/33	19:22	07:48-08:05/17	18:26		16:37		16:16		
9	05:19	05:52-06:45/53	05:51	06:27-06:57/30	06:28	07:04-07:20/16	07:04	07:41-07:52/11	06:45	07:28-08:15/47	07:22	08:42-08:54/12	
	20:45	06:45-06:53/8	20:15	07:02-07:37/35	19:21	07:44-08:08/24	18:24		16:36		16:16		
10	05:20	05:53-06:45/52	05:52	06:26-06:57/31	07:00-07:38/38	06:29	07:42-08:10/28	07:05	06:47	07:28-08:14/46	07:23	08:41-08:56/15	
	20:44	06:45-06:54/9	20:13	06:57-06:58/1		19:19		18:22	16:35		16:16		
11	05:21	05:52-06:44/52	05:53	06:26-06:58/32		06:30	07:40-08:12/32	07:06	06:48	07:29-08:14/45	07:24	08:41-08:57/16	
	20:44	06:44-06:53/9	20:12	06:58-07:39/41		19:17		18:21	16:33		16:16		
12	05:22	05:53-06:44/51	05:54	06:26-06:58/32		06:31	07:38-08:13/35	07:08	06:49	07:30-08:13/43	07:25	08:41-08:58/17	
	20:43	06:44-06:53/9	20:10	06:58-07:41/43		19:15		18:19	16:32		16:16		
13	05:23	05:54-06:44/50	05:56	06:26-06:58/32		06:32	07:36-08:14/38	07:09	06:51	07:31-08:13/42	07:26	08:41-09:00/19	
	20:43	06:44-06:54/10	20:09	06:58-07:41/43		19:13		18:17	16:31		16:16		
14	05:23	05:55-06:43/48	05:57	06:25-06:59/34		06:34	07:35-08:15/40	07:10	08:46-08:58/12	06:52	07:32-08:12/40	07:27	08:40-09:00/20
	20:42	06:43-06:54/11	20:07	06:58-07:42/44		19:11		18:15	16:30		16:16		
15	05:24	05:55-06:43/48	05:58	06:25-06:59/34		06:35	07:33-08:15/42	07:12	08:41-09:02/21	06:53	07:33-08:12/39	07:27	08:41-09:01/20
	20:42	06:43-06:54/11	20:06	06:58-07:42/44		19:09		18:14	16:29		16:16		
16	05:25	05:56-06:43/47	05:59	06:25-06:58/33		06:36	07:32-08:16/44	07:13	08:39-09:05/26	06:55	07:34-08:10/36	07:28	08:41-09:02/21
	20:41	06:43-06:54/11	20:04	06:57-07:43/46		19:07		18:12	16:28		16:16		
17	05:26	05:56-06:42/46	06:00	06:25-06:57/32		06:37	07:32-08:17/45	07:14	08:36-09:07/31	06:56	07:36-08:10/34	07:29	08:42-09:03/21
	20:40	06:42-06:54/12	20:03	06:56-07:43/47		19:05		18:10	16:27		16:17		
18	05:27	05:57-06:41/44	06:02	06:25-06:57/32		06:38	07:30-08:17/47	07:15	08:34-09:08/34	06:57	07:37-08:09/32	07:30	08:41-09:03/22
	20:39	06:41-06:54/13	20:01	06:56-07:43/47		19:03		18:08	16:26		16:17		
19	05:28	05:58-06:40/42	06:03	06:26-06:56/30		06:39	07:29-08:17/48	07:17	08:33-09:10/37	06:59	07:38-08:07/29	07:30	08:42-09:04/22
	20:39	06:40-06:54/14	19:58	06:55-07:43/48		19:02		18:07	16:25		16:17		
20	05:29	05:59-06:40/41	06:04	06:27-06:56/29		06:41	07:29-08:17/48	07:18	08:31-09:11/40	07:00	07:41-08:06/25	07:31	08:42-09:04/22
	20:38	06:40-06:54/14	19:56	06:55-07:44/49		19:00		18:05	16:24		16:18		
21	05:30	06:00-06:39/39	06:05	06:28-06:53/25		06:42	07:28-08:17/49	07:19	08:30-09:12/42	07:01	07:43-08:04/21	07:31	08:43-09:05/22
	20:37	06:39-06:54/15	19:55	06:53-07:44/51		18:58		18:03	16:24		16:18		
22	05:31	06:01-06:38/37	06:06	06:29-06:51/22		06:43	07:27-08:17/50	07:21	08:29-09:13/44	07:03	07:46-08:03/17	07:32	08:43-09:05/22
	20:36	06:38-06:54/16	19:53	06:51-07:44/53		18:56		18:02	16:23		16:19		
23	05:32	06:02-06:37/35	06:07	06:30-06:50/20		06:44	07:27-08:17/50	07:22	08:28-09:14/46	07:04	07:49-07:59/10	07:32	08:44-09:06/22
	20:35	06:37-06:53/16	19:51	06:50-07:43/53		18:54		18:00	16:22		16:19		
24	05:33	06:04-06:36/32	06:09	06:32-06:47/15		06:45	07:27-08:17/50	07:23	08:28-09:15/47	07:05		07:33	08:44-09:06/22
	20:34	06:36-06:53/17	19:49	06:47-07:43/56		18:52		17:58	16:21		16:20		
25	05:34	06:05-06:34/29	06:10	06:32-06:43/11		06:47	07:26-08:16/50	07:25	08:27-09:15/48	07:06		07:33	08:45-09:07/22
	20:33	06:34-06:53/19	19:48	06:43-07:43/60		18:50		17:57	16:21		16:20		
26	05:35	06:06-06:32/26	06:11	06:33-07:42/69		06:48	07:26-08:15/49	07:26	08:27-09:16/49	07:08		07:34	08:45-09:07/22
	20:32	06:32-06:52/20	19:46			18:48		17:55	16:20		16:21		
27	05:36	06:07-06:30/23	06:12	06:35-07:42/67		06:49	07:26-08:15/49	07:27	08:26-09:16/50	07:09		07:34	08:46-09:07/21
	20:31	06:30-06:52/22	19:44			18:46		17:54	16:20		16:22		
28	05:37	06:07-06:27/20	06:13	06:36-07:42/66		06:50	07:27-08:15/48	07:29	08:25-09:16/51	07:10		07:34	08:46-09:07/21
	20:30	06:27-06:51/24	19:42			18:45		17:52	16:19		16:22		
29	05:38	06:08-06:51/43	06:15	06:38-06:51/13		06:52	07:27-08:14/47	07:30	08:25-09:17/52	07:11		07:34	08:47-09:07/20
	20:29		19:41	06:52-07:41/49		18:43		17:51	16:18		16:23		
30	05:39	06:08-06:50/42	06:16	06:42-06:47/5		06:53	07:27-08:12/45	07:31	08:25-09:16/51	07:13		07:35	08:49-09:08/19
	20:28		19:39	06:52-07:40/48		18:41		17:49	16:18		16:24		
31	05:41	06:09-06:46/37	06:17	06:52-07:39/47				07:33	08:25-09:17/52			07:35	08:50-09:07/17
	20:27	06:46-06:49/3	19:37					17:48				16:25	
Potential sun hours	472		436		376		341		288		275		
Sum of minutes with flicker	1715		2075		1283		1018		910		473		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 11

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 14 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (100)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January	February	March	April	May	June
07:35 08:32-09:24/52 14:50-15:29/39 16:26 12:42-13:36/54 15:43-15:58/15 2 07:35 08:32-09:24/52 14:50-15:29/39 16:27 12:43-13:36/53 15:43-15:58/15 3 07:35 08:33-09:25/52 14:51-15:30/39 16:28 12:44-13:36/52 15:43-16:00/17 4 07:35 08:33-09:25/52 14:52-15:30/38 16:29 12:46-13:36/50 15:43-16:01/18 5 07:35 08:34-09:26/52 14:52-15:29/37 16:30 12:46-13:35/49 15:42-16:01/19 6 07:35 08:19-08:28/9 12:47-13:35/48 15:42-16:02/20 16:31 08:33-09:26/53 14:53-15:30/37 7 07:35 08:18-08:31/13 12:49-13:35/46 15:42-16:04/22 16:32 08:34-09:26/52 14:54-15:30/36 8 07:35 08:17-08:33/16 12:50-13:35/45 15:42-16:05/23 16:33 08:35-09:27/52 14:55-15:30/35 9 07:34 08:15-09:27/72 14:55-15:30/35 16:34 12:51-13:34/43 15:42-16:05/23 10 07:34 08:14-09:27/73 14:56-15:30/34 16:35 12:53-13:34/41 15:42-16:07/25 11 07:34 08:14-09:28/74 14:58-15:30/32 16:36 12:56-13:33/37 15:42-16:09/27 12 07:33 08:13-09:28/75 14:58-15:30/32 16:37 12:57-13:32/35 15:42-16:09/27 13 07:33 08:13-09:29/76 15:00-15:30/30 16:39 13:00-13:31/31 15:42-16:11/29 14 07:32 08:12-09:29/77 15:01-15:29/28 16:40 13:02-13:29/27 15:42-16:12/30 15 07:32 08:11-09:28/77 15:02-15:28/26 16:41 13:05-13:26/21 15:41-16:13/32 16 07:31 08:11-09:29/78 15:04-15:28/24 16:42 13:10-13:23/13 15:42-16:15/33 17 07:31 08:10-09:29/79 15:42-16:16/34 16:44 15:06-15:26/20 18 07:30 08:09-09:29/80 15:42-16:17/35 16:45 15:07-15:25/18 19 07:30 08:10-09:30/80 15:43-16:19/36 16:46 15:11-15:23/12 20 07:29 08:09-09:29/80 16:19-16:21/2 16:48 15:42-16:20/38 21 07:28 08:09-09:29/80 16:19-16:22/3 16:49 15:43-16:20/37 22 07:27 08:08-09:29/81 16:19-16:23/4 16:50 15:43-16:20/37 23 07:26 08:08-09:28/80 16:19-16:24/5 16:52 15:43-16:20/37 24 07:26 08:07-09:28/81 16:19-16:26/7 16:53 15:43-16:20/37 25 07:25 08:07-09:27/80 16:19-16:27/8 16:54 15:43-16:20/37 26 07:24 08:07-09:27/80 16:18-16:29/11 16:56 15:44-16:19/35 27 07:23 08:07-09:26/79 16:18-16:30/12 16:57 15:44-16:19/35 28 07:22 08:07-09:26/79 16:17-16:32/15 16:59 15:45-16:18/33 29 07:21 08:07-09:25/78 16:17-16:34/17 17:00 15:46-16:18/32 30 07:20 08:07-09:24/77 16:16-16:35/19 17:01 15:46-16:17/31 31 07:19 08:07-09:22/75 16:14-16:35/21 17:03 15:47-16:15/28	07:18 07:54-08:05/11 15:48-16:13/25 17:04 08:08-09:21/73 16:12-16:35/23 2 07:16 07:50-09:18/88 17:06 15:49-16:35/46 3 07:15 07:48-08:56/68 15:50-16:35/45 17:07 08:58-09:15/17 4 07:14 07:47-08:57/70 15:52-16:35/43 17:09 09:04-09:11/7 16:42-16:43/1 5 07:13 07:46-08:57/71 16:40-16:44/4 17:10 15:52-16:34/42 6 07:12 07:44-08:56/72 16:39-16:46/7 17:11 15:55-16:33/38 7 07:10 07:44-08:56/72 16:38-16:48/10 17:13 15:58-16:33/35 8 07:09 07:42-08:55/73 16:37-16:49/12 17:14 16:01-16:32/31 9 07:08 07:42-08:55/73 16:37-16:51/14 17:16 16:06-16:31/25 10 07:06 07:30-07:38/8 16:08-16:30/22 17:17 07:42-08:55/73 16:37-16:53/16 11 07:05 07:27-07:41/14 16:10-16:28/18 17:19 07:41-08:54/73 16:36-16:54/18 12 07:03 07:26-07:44/18 16:13-16:25/12 17:20 07:43-08:53/70 16:36-16:56/20 13 07:02 07:24-07:45/21 16:36-16:57/21 17:21 07:44-08:52/68 14 07:00 07:24-07:38/14 16:37-16:59/22 17:23 07:36-08:51/75 15 06:59 07:21-07:40/19 16:36-17:00/24 17:24 07:38-08:49/71 16 06:57 07:20-07:37/17 16:37-17:01/24 17:26 07:33-08:48/75 17 06:56 07:18-07:34/16 16:38-17:00/22 17:27 07:28-08:46/78 18 06:54 07:16-07:36/20 16:38-16:59/21 17:28 07:31-08:43/72 19 06:53 07:15-07:39/24 08:24-08:40/16 17:30 07:34-08:20/46 16:40-16:58/18 20 06:51 07:13-07:40/27 16:41-16:56/15 17:31 07:35-08:19/44 21 06:50 07:12-07:41/29 16:45-16:54/9 17:33 07:36-08:19/43 22 06:48 07:10-07:42/32 17:34 07:37-08:18/41 23 06:46 07:08-07:41/33 17:35 07:37-08:17/40 24 06:45 07:06-07:42/36 17:37 07:38-08:16/38 25 06:43 07:04-07:41/37 17:38 07:37-08:14/37 26 06:41 07:02-07:40/38 17:40 07:37-08:12/35 27 06:40 07:01-07:39/38 17:41 07:36-08:10/34 28 06:38 07:00-07:40/40 17:42 07:39-08:08/29 29 06:45 19:19 30 06:43 19:20 31 06:41 19:21	06:36 06:59-07:38/39 17:44 07:37-08:04/27 06:34 06:58-07:36/38 17:45 07:35-07:56/21 06:33 06:57-07:34/37 17:46 07:33-07:54/21 06:31 06:57-07:32/35 17:48 07:32-07:53/21 06:29 06:56-07:29/33 17:49 07:29-07:51/22 06:27 06:55-07:28/33 17:50 07:31-07:48/17 06:26 06:55-07:26/31 17:52 07:34-07:44/10 07:24 07:55-08:23/28 18:53 08:22-08:24/2 07:22 07:55-08:21/26 18:54 08:21-08:23/2 07:20 07:56-08:21/25 18:56 08:21-08:22/1 07:18 07:57-08:19/22 18:57 07:16 07:57-08:17/20 18:58 07:15 07:59-08:15/16 19:00 07:13 08:01-08:12/11 19:01 07:11 19:02 07:09 19:03 07:07 19:05 07:05 19:06 07:04 19:07 07:02 19:09 07:00 19:10 06:58 19:11 06:56 19:12 06:54 19:14 06:52 19:15 06:50 19:16 06:49 19:18 06:47 19:19 06:45 19:20 06:43 19:21 06:41 19:23	06:39 05:48 05:14 20:00 20:00 20:35 06:37 05:46 05:14 19:25 20:02 20:36 06:35 05:45 05:13 19:26 20:03 20:37 06:34 05:43 05:13 19:28 20:04 20:37 06:32 05:42 05:12 19:29 20:05 20:38 06:30 05:40 05:12 19:30 20:06 20:39 06:28 05:39 05:12 19:31 20:08 20:40 06:26 05:38 05:11 19:33 20:09 20:40 06:25 05:36 05:11 19:34 20:10 20:41 06:23 05:35 05:11 19:35 20:11 20:42 06:21 05:34 05:10 19:36 20:13 20:42 06:19 05:33 05:10 19:38 20:14 20:43 06:17 05:31 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19:35 20:11 20:42 06:21 05:34 05:10 19:36 20:13 20:42 06:19 05:33 05:10 19:38 20:14 20:43 06:17 05:31 05:10 19:39 20:15 20:43 06:16 05:30 05:10 19:40 20:16 20:44 06:14 05:29 05:10 19:42 20:17 20:44 06:12 05:28 05:10 19:43 20:18 20:45 06:10 05:27 05:10 19:44 20:20 20:45 06:09 05:26 05:10 19:45 20:21 20:46 06:07 05:25 05:10 19:47 20:22 20:46 06:05 05:24 05:10 19:48 20:23 20:46 06:04 05:23 05:10 19:49 20:24 20:47 06:02 05:22 05:11 19:50 20:25 20:47 06:00 05:21 05:11 19:52 20:26 20:47 05:59 05:20 05:11 19:53 20:27 20:47 05:57 05:19 05:11 19:54 20:28 20:47 05:55 05:18 05:12 19:55 20:29 20:48 05:54 05:18 05:12 19:57 20:30 20:48 05:52 05:17 05:13 19:58 20:31 20:48 05:51 05:16 05:13 19:59 20:32 20:48 05:49 05:15 05:14 20:00 20:33 20:47 05:15 05:15 20:34	
Potential sun hours 286	291	369	404	459	466
Sum of minutes with flicker 4492	2857	534	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 12

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 14 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (100)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 20:47	05:42 20:26	06:18 19:35	06:54 18:39	06:34 16:46	07:14 16:18
2	05:15 20:47	05:43 20:24	06:19 19:34	06:55 18:37	06:36 16:45	07:15 16:17
3	05:15 20:47	05:44 20:23	06:21 19:32	06:57 18:35	06:37 16:44	07:16 16:17
4	05:16 20:47	05:45 20:22	06:22 19:30	06:58 18:33	06:38 16:42	07:17 16:17
5	05:16 20:47	05:46 20:20	06:23 19:28	06:59 18:32	06:40 16:41	07:18 16:16
6	05:17 20:46	05:47 20:19	06:24 19:26	07:00 18:30	06:41 16:40	07:19 16:16
7	05:18 20:46	05:49 20:18	06:25 19:24	07:02 18:28	06:43 16:38	07:20 16:16
8	05:18 20:46	05:50 20:16	06:26 19:22	07:03 18:26	06:44 16:37	07:21 16:16
9	05:19 20:45	05:51 20:15	06:28 19:21	07:04 18:24	06:45 16:36	07:22 16:16
10	05:20 20:45	05:52 20:14	06:29 19:19	07:05 18:22	06:47 16:35	07:23 16:16
11	05:21 20:44	05:53 20:12	06:30 19:17	07:07 18:21	06:48 16:33	07:24 16:16
12	05:22 20:44	05:54 20:11	06:31 19:15	07:08 18:19	06:49 16:32	07:25 16:16
13	05:22 20:43	05:56 20:09	06:32 19:13	07:09 18:17	06:51 16:31	07:26 16:16
14	05:23 20:42	05:57 20:08	06:34 19:11	07:10 18:15	06:52 16:30	07:27 16:16
15	05:24 20:42	05:58 20:06	06:35 19:09	07:12 18:14	06:54 16:29	07:28 16:16
16	05:25 20:41	05:59 20:04	06:36 19:07	07:13 18:12	06:55 16:28	07:28 16:16
17	05:26 20:40	06:00 20:03	06:37 19:05	07:14 18:10	06:56 16:27	07:29 16:17
18	05:27 20:40	06:02 20:01	06:38 19:04	07:16 18:08	06:58 16:26	07:30 16:17
19	05:28 20:39	06:03 20:00	06:40 19:02	07:17 18:07	06:59 16:25	07:30 16:17
20	05:29 20:38	06:04 19:56	06:41 19:00	07:18 18:05	07:00 16:24	07:31 16:18
21	05:30 20:37	06:05 19:55	06:42 18:58	07:20 18:03	07:02 16:24	07:32 16:18
22	05:31 20:36	06:06 19:53	06:43 18:56	07:21 18:02	07:03 16:23	07:32 16:19
23	05:32 20:35	06:07 19:51	06:44 18:54	07:22 18:00	07:04 16:22	07:33 16:19
24	05:33 20:34	06:09 19:50	06:46 18:52	07:24 17:58	07:05 16:21	07:33 16:20
25	05:34 20:33	06:10 19:48	06:47 18:50	07:25 17:57	07:07 16:21	07:33 16:20
26	05:35 20:32	06:11 19:46	06:48 18:48	07:26 17:55	07:08 16:20	07:34 16:21
27	05:36 20:31	06:12 19:44	06:49 18:46	07:28 17:54	07:09 16:19	07:34 16:22
28	05:37 20:30	06:13 19:43	06:50 18:45	07:29 17:53	07:10 16:19	07:34 16:22
29	05:38 20:29	06:15 19:41	06:52 18:43	07:30 17:51	07:12 16:18	07:35 16:23
30	05:39 20:28	06:16 19:39	06:53 18:41	07:32 17:49	07:13 16:18	07:35 16:24
31	05:41 20:27	06:17 19:37		07:33 17:48		
Potential sun hours	472	436	376	341	288	274
Sum of minutes with flicker	0	0	22	2212	3884	5024

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 13

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 15 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (101)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June			
1	07:35	15:28-15:57/29	07:17	15:53-16:20/27	06:36	06:57-07:20/23		06:39	07:02-07:26/24	18:51-19:01/10	05:48		05:14	19:34-20:09/35
	16:26		17:04	16:23-16:38/15	17:44			19:24	18:11-18:51/40		20:00		20:35	
2	07:35	15:28-15:59/31	07:16	15:54-16:20/26	06:34	06:57-07:20/23		06:37	07:02-07:25/23	18:50-19:02/12	05:46		05:14	19:33-20:09/36
	16:27		17:06	16:22-16:40/18	17:45			19:25	18:11-18:50/39		20:01		20:35	
3	07:35	15:27-15:59/32	07:15	15:55-16:19/24	06:33	06:56-07:19/23		06:35	07:03-07:25/22	18:49-19:03/14	05:45		05:13	19:34-20:10/36
	16:28		17:07	16:21-16:42/21	17:46			19:26	18:12-18:49/37		20:03		20:36	
4	07:35	15:28-15:59/31	07:14	15:57-16:19/22	06:31	06:56-07:19/23		06:34	07:03-07:24/21	18:48-19:05/17	05:43		05:13	19:34-20:09/35
	16:29	15:59-16:00/1	17:08	16:20-16:43/23	17:48			19:27	18:13-18:48/35		20:04		20:37	20:09-20:10/1
5	07:35	15:28-16:00/32	07:13	15:58-16:16/18	06:29	06:56-07:19/23		06:32	07:04-07:22/18	18:47-19:06/19	05:42		05:12	19:35-20:10/35
	16:30	16:00-16:01/1	17:10	16:19-16:44/25	17:49			19:29	18:14-18:47/33		20:05		20:38	20:10-20:11/1
6	07:35	15:29-16:01/32	07:11	16:01-16:15/14	06:27	06:56-07:19/23		06:30	07:05-07:20/15	18:45-19:07/22	05:40		05:12	19:36-20:10/34
	16:31	16:01-16:03/2	17:11	16:18-16:46/28	17:50			19:30	18:15-18:45/30		20:06		20:39	20:10-20:12/2
7	07:35	15:30-16:02/32	07:10	16:05-16:11/6	06:25	06:57-07:17/20		06:28	07:07-07:18/11	18:43-19:08/25	05:39		05:12	19:35-20:09/34
	16:32	16:02-16:04/2	17:13	16:18-16:48/30	17:52			19:31	18:16-18:43/27		20:07		20:39	20:09-20:12/3
8	07:34	15:29-16:01/32	07:09	16:17-16:49/32	07:24	07:57-08:16/19		06:26	18:18-18:40/22		05:38	19:41-19:44/3	05:11	19:36-20:10/34
	16:33	16:01-16:04/3	17:14		18:53			19:33	18:40-19:09/29		20:09		20:40	20:10-20:13/3
9	07:34	15:30-16:02/32	07:07	16:17-16:51/34	07:22	07:58-08:14/16		06:24	18:21-18:38/17		05:36	19:40-19:46/6	05:11	19:36-20:10/34
	16:34	16:02-16:06/4	17:16		18:54			19:34	18:38-19:11/33		20:10		20:41	20:10-20:14/4
10	07:34	15:31-16:03/32	07:06	16:16-16:52/36	07:20	08:00-08:12/12		06:23	18:26-18:32/6		05:35	19:38-19:47/9	05:11	19:37-20:10/33
	16:35	16:03-16:07/4	17:17		18:56			19:35	18:32-19:10/38		20:11		20:41	20:10-20:15/5
11	07:33	15:31-16:03/32	07:05	16:17-16:54/37	07:18			06:21	18:31-19:10/39		05:34	19:37-19:48/11	05:10	19:38-20:10/32
	16:36	16:03-16:08/5	17:19		18:57			19:36			20:12		20:42	20:10-20:15/5
12	07:33	15:31-16:04/33	07:03	16:16-16:55/39	07:16			06:19	18:31-19:09/38		05:33	19:35-19:48/13	05:10	19:37-20:09/32
	16:38	16:04-16:10/6	17:20		18:58			19:38			20:13		20:43	20:09-20:15/6
13	07:33	15:31-16:03/32	07:02	16:17-16:57/40	07:15			06:17	18:30-19:08/38		05:31	19:35-19:50/15	05:10	19:38-20:09/31
	16:39	16:03-16:11/8	17:21		18:59			19:39			20:15		20:43	20:09-20:16/7
14	07:32	15:32-16:04/32	07:00	16:16-16:58/42	07:13			06:16	18:32-19:08/36		05:30	19:34-19:51/17	05:10	19:38-20:10/32
	16:40	16:04-16:12/8	17:23		19:01			19:40			20:16		20:44	20:10-20:16/6
15	07:32	15:33-16:04/31	06:59	16:17-16:59/42	07:11	18:30-18:39/9		06:14	18:32-19:06/34		05:29	19:33-19:52/19	05:10	19:38-20:10/32
	16:41	16:04-16:13/9	17:24		19:02			19:41			20:17		20:44	20:10-20:17/7
16	07:31	15:33-16:04/31	06:57	16:17-16:59/42	07:09	18:26-18:41/15		06:12	18:32-19:05/33		05:28	19:33-19:53/20	05:10	19:39-20:10/31
	16:42	16:04-16:14/10	17:26		19:03			19:43			20:18		20:45	20:10-20:17/7
17	07:31	15:34-16:05/31	06:56	16:18-17:00/42	07:07	18:23-18:42/19		06:10	18:34-19:04/30		05:27	19:33-19:54/21	05:10	19:39-20:10/31
	16:44	16:05-16:16/11	17:27		19:05			19:44			20:19		20:45	20:10-20:17/7
18	07:30	15:34-16:04/30	06:54	16:19-16:59/40	07:05	18:21-18:43/22		06:09	18:34-19:03/29		05:26	19:32-19:55/23	05:10	19:39-20:10/31
	16:45	16:04-16:17/13	17:28		19:06			19:45			20:20		20:45	20:10-20:18/8
19	07:29	15:35-16:04/29	06:53	16:20-16:59/39	07:03	18:20-18:45/25		06:07	18:35-19:01/26		05:25	19:32-19:56/24	05:10	19:40-20:11/31
	16:46	16:04-16:19/15	17:30		19:07			19:46			20:21		20:46	20:11-20:19/8
20	07:29	15:35-16:04/29	06:51	16:21-16:59/38	07:02	18:18-18:46/28		06:05	18:38-18:59/21		05:24	19:32-19:57/25	05:10	19:40-20:11/31
	16:48	16:04-16:19/15	17:31		19:09			19:48			20:23		20:46	20:11-20:19/8
21	07:28	15:37-16:04/27	06:49	16:22-16:58/36	07:00	18:16-18:47/31		06:04	18:39-18:56/17		05:23	19:31-19:58/27	05:10	19:40-20:11/31
	16:49	16:04-16:21/17	17:33		19:10			19:49			20:24		20:46	20:11-20:19/8
22	07:27	15:38-16:04/26	06:48	16:24-16:58/34	06:58	18:15-18:49/34		06:02	18:43-18:52/9		05:22	19:31-19:59/28	05:11	19:40-20:11/31
	16:50	16:04-16:21/17	17:34		19:11			19:50			20:25		20:47	20:11-20:19/8
23	07:26	15:39-16:03/24	06:46	16:26-16:57/31	06:56	18:14-18:50/36		06:00			05:21	19:32-20:01/29	05:11	19:40-20:11/31
	16:52	16:03-16:21/18	17:35		19:12			19:51			20:26		20:47	20:11-20:19/8
24	07:25	15:40-16:02/22	06:45	07:05-07:12/7	06:54	07:14-07:20/6		05:59			05:20	19:32-20:01/29	05:11	19:41-20:12/31
	16:53	16:02-16:22/20	17:37	16:28-16:55/27	19:14	18:13-18:51/38		19:53			20:27		20:47	20:12-20:20/8
25	07:24	15:42-16:01/19	06:43	07:04-07:16/12	06:52	07:12-07:23/11		05:57			05:19	19:32-20:02/30	05:11	19:41-20:12/31
	16:54	16:01-16:22/21	17:38	16:29-16:55/26	19:15	18:12-18:52/40		19:54			20:28		20:47	20:12-20:19/7
26	07:24	15:44-16:00/16	06:41	07:02-07:17/15	06:50	07:10-07:24/14		05:55			05:18	19:32-20:03/31	05:12	19:41-20:12/31
	16:56	16:00-16:22/22	17:39	16:31-16:53/22	19:16	18:12-18:53/41		19:55			20:29		20:47	20:12-20:19/7
27	07:23	15:46-15:58/12	06:39	07:00-07:18/18	06:48	07:09-07:26/17	18:54-18:55/1	05:54			05:18	19:32-20:04/32	05:12	19:42-20:13/31
	16:57	15:58-16:22/24	17:41	16:32-16:50/18	19:17	18:12-18:54/42		19:56			20:30		20:47	20:13-20:20/7
28	07:22	15:50-16:22/32	06:38	06:58-07:18/20	06:47	07:07-07:26/19	18:54-18:56/2	05:52			05:17	19:32-20:05/33	05:13	19:41-20:13/32
	16:59		17:42	16:35-16:47/12	19:19	18:12-18:54/42		19:58			20:31		20:47	20:13-20:19/6
29	07:21	15:51-16:22/31			06:45	07:05-07:27/22	18:54-18:57/3	05:51			05:16	19:32-20:05/33	05:13	19:42-20:13/31
	17:00				19:20	18:11-18:54/43		19:59			20:32		20:47	20:13-20:20/7
30	07:20	15:52-16:22/30			06:43	07:03-07:27/24	18:53-18:59/6	05:49			05:16	19:33-20:07/34	05:14	19:41-20:13/32
	17:01	16:28-16:36/8			19:21	18:11-18:53/42		20:00			20:33		20:47	20:13-20:19/6
31	07:18	15:52-16:21/29			06:41	07:03-07:26/23	18:52-19:00/8				05:15	19:33-20:07/34		
	17:03	16:24-16:36/12			19:22	18:11-18:52/41					20:34			
32	286		291		369			404			459		466	
33	1169		1078		909			989			546		1132	

Project:

Jericho_SFA_2015_08_28

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 15 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (101)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14	19:42-20:14/32	05:42	19:46-19:59/13	06:18	18:30-19:09/39	06:54		06:34	15:46-16:21/35	07:14	15:13-15:45/32
	20:47	20:14-20:20/6	20:25		19:35		18:39		16:46		16:18	15:45-15:50/5
2	05:15	19:41-20:14/33	05:43	19:47-19:57/10	06:19	18:24-18:30/6	06:55		06:36	15:47-16:20/33	07:15	15:13-15:45/32
	20:47	20:14-20:19/5	20:24		19:33	18:30-19:08/38	18:37		16:45		16:17	15:45-15:50/5
3	05:15	19:42-20:15/33	05:44	19:48-19:56/8	06:20	18:18-18:35/17	06:56	07:40-07:49/9	06:37	15:47-16:18/31	07:16	15:14-15:46/32
	20:47	20:15-20:19/4	20:23		19:32	18:35-19:08/33	18:35		16:44		16:17	15:46-15:50/4
4	05:16	19:41-20:15/34	05:45	19:51-19:56/5	06:22	18:16-18:38/22	06:58	07:37-07:51/14	06:38	15:33-15:41/8	07:17	15:14-15:46/32
	20:47	20:15-20:19/4	20:22		19:30	18:38-19:07/29	18:33		16:42	15:47-16:17/30	16:17	15:46-15:49/3
5	05:16	19:42-20:15/33	05:46	19:53-19:54/1	06:23	07:04-07:14/10	06:59	07:35-07:52/17	06:40	15:30-15:45/15	07:18	15:15-15:47/32
	20:46	20:15-20:19/4	20:20		19:28	18:13-18:40/27	18:31		16:41	15:48-16:16/28	16:16	15:47-15:49/2
6	05:17	19:42-20:16/34	05:47		06:24	07:01-07:16/15	07:00	07:33-07:53/20	06:41	15:28-15:47/19	07:19	15:15-15:47/32
	20:46	20:16-20:19/3	20:19		19:26	18:11-18:41/30	18:30		16:40	15:49-16:14/25	16:16	15:47-15:49/2
7	05:18	19:41-20:16/35	05:49		06:25	06:59-07:17/18	07:01	07:32-07:54/22	06:42	15:27-15:49/22	07:20	15:15-15:47/32
	20:46	20:16-20:18/2	20:18		19:24	18:09-18:42/33	18:28		16:38	15:50-16:13/23	16:16	15:47-15:48/1
8	05:19	19:41-20:17/36	05:50		06:26	06:58-07:18/20	07:03	07:31-07:54/23	06:44	15:25-15:49/24	07:21	15:16-15:47/31
	20:45	20:17-20:18/1	20:16		19:22	18:08-18:42/34	18:26		16:37	15:51-16:11/20	16:16	15:47-15:48/1
9	05:19	19:42-20:17/35	05:51		06:28	06:56-07:18/22	07:04	07:30-07:54/24	06:45	15:25-15:51/26	07:22	15:17-15:48/31
	20:45	20:17-20:18/1	20:15		19:20	18:06-18:43/37	18:24		16:36	15:53-16:10/17	16:16	
10	05:20	19:42-20:17/35	05:52		06:29	06:55-07:18/23	07:05	07:31-07:54/23	06:46	15:23-15:51/28	07:23	15:17-15:48/31
	20:44		20:13		19:19	18:05-18:43/38	18:22		16:35	15:54-16:09/15	16:16	
11	05:21	19:41-20:16/35	05:53		06:30	06:56-07:19/23	07:06	07:30-07:54/24	06:48	15:23-15:53/30	07:24	15:18-15:47/29
	20:44		20:12		19:17	18:05-18:44/39	18:21		16:33	15:57-16:08/11	16:16	
12	05:22	19:41-20:16/35	05:54		06:31	06:55-07:18/23	07:08	07:30-07:53/23	06:49	15:23-15:53/30	07:25	15:18-15:48/30
	20:43		20:10		19:15	18:03-18:44/41	18:19		16:32	15:59-16:06/7	16:16	
13	05:22	19:41-20:15/34	05:56		06:32	06:55-07:18/23	07:09	07:31-07:53/22	06:51	15:23-15:54/31	07:26	15:19-15:48/29
	20:43		20:09		19:13	18:03-18:44/41	18:17	17:12-17:16/4	16:31		16:16	
14	05:23	19:42-20:15/33	05:57		06:34	06:55-07:17/22	07:10	07:32-07:51/19	06:52	15:22-15:54/32	07:27	15:19-15:48/29
	20:42		20:07		19:11	18:02-18:44/42	18:15	17:07-17:21/14	16:30		16:16	
15	05:24	19:42-20:15/33	05:58		06:35	06:56-07:16/20	07:12	07:33-07:50/17	06:53	15:19-15:31/12	07:27	15:20-15:48/28
	20:42		20:06		19:09	18:01-18:43/42	18:13	17:04-17:23/19	16:29	15:31-15:55/24	16:16	
16	05:25	19:41-20:13/32	05:59		06:36	06:57-07:15/18	07:13	07:35-07:49/14	06:55	15:17-15:33/16	07:28	15:20-15:48/28
	20:41		20:04		19:07	18:00-18:43/43	18:12	17:01-17:25/24	16:28	15:33-15:55/22	16:16	
17	05:26	19:41-20:13/32	06:00		06:37	06:59-07:14/15	07:14	07:36-07:46/10	06:56	15:16-15:35/19	07:29	15:21-15:49/28
	20:40		20:03		19:05	18:00-18:41/41	18:10	17:00-17:26/26	16:27	15:35-15:56/21	16:17	
18	05:27	19:41-20:12/31	06:01		06:38	07:00-07:12/12	07:15	16:59-17:27/28	06:57	15:14-15:36/22	07:29	15:21-15:49/28
	20:39		20:01		19:03	18:01-18:41/40	18:08		16:26	15:36-15:56/20	16:17	
19	05:28	19:41-20:11/30	06:03		06:39	07:01-07:08/7	07:17	16:57-17:28/31	06:59	15:13-15:37/24	07:30	15:22-15:49/27
	20:39		19:58		19:02	18:00-18:39/39	18:07		16:25	15:37-15:55/18	16:17	
20	05:29	19:42-20:11/29	06:04		06:41	18:00-18:36/36	07:18	16:54-17:28/34	07:00	15:13-15:39/26	07:31	15:22-15:49/27
	20:38		19:56		19:00		18:05		16:24	15:39-15:56/17	16:18	
21	05:30	19:42-20:10/28	06:05	18:48-18:58/10	06:42	18:00-18:34/34	07:19	16:52-17:28/36	07:01	15:12-15:39/27	07:31	15:23-15:50/27
	20:37		19:54		18:58		18:03		16:24	15:39-15:56/17	16:18	
22	05:31	19:42-20:09/27	06:06	18:44-19:01/17	06:43	18:01-18:32/31	07:21	16:51-17:29/38	07:03	15:13-15:41/28	07:32	15:23-15:50/27
	20:36		19:53		18:56		18:02		16:23	15:41-15:56/15	16:19	
23	05:32	19:42-20:08/26	06:07	18:41-19:03/22	06:44	18:01-18:30/29	07:22	16:49-17:29/40	07:04	15:12-15:41/29	07:32	15:24-15:51/27
	20:35		19:51		18:54		18:00		16:22	15:41-15:56/15	16:19	
24	05:33	19:42-20:07/25	06:09	18:39-19:05/26	06:45	18:03-18:29/26	07:23	16:49-17:30/41	07:05	15:11-15:41/30	07:33	15:24-15:51/27
	20:34		19:49		18:52		17:58		16:21	15:41-15:55/14	16:20	
25	05:34	19:43-20:06/23	06:10	18:37-19:06/29	06:47	18:03-18:27/24	07:25	16:48-17:29/41	07:06	15:12-15:43/31	07:33	15:24-15:51/27
	20:33		19:48		18:50		17:57		16:21	15:43-15:54/11	16:20	
26	05:35	19:43-20:05/22	06:11	18:35-19:06/31	06:48	18:05-18:25/20	07:26	16:47-17:28/41	07:08	15:12-15:43/31	07:34	15:25-15:53/28
	20:32		19:46		18:48		17:55		16:20	15:43-15:53/10	16:21	
27	05:36	19:43-20:04/21	06:12	18:34-19:07/33	06:49	18:06-18:23/17	07:27	16:47-17:29/42	07:09	15:12-15:43/31	07:34	15:25-15:53/28
	20:31		19:44		18:46		17:54		16:20	15:43-15:52/9	16:22	
28	05:37	19:44-20:03/19	06:13	18:34-19:08/34	06:50	18:09-18:21/12	07:29	16:46-17:27/41	07:10	15:13-15:44/31	07:34	15:26-15:54/28
	20:30		19:42		18:44		17:52		16:19	15:44-15:53/9	16:22	
29	05:38	19:44-20:02/18	06:15	18:32-19:09/37	06:51		07:30	16:46-17:26/40	07:11	15:12-15:44/32	07:34	15:26-15:54/28
	20:29		19:41		18:43		17:51		16:18	15:44-15:52/8	16:23	
30	05:39	19:45-20:01/16	06:16	18:31-19:09/38	06:53		07:31	16:46-17:24/38	07:13	15:13-15:45/32	07:35	15:26-15:55/29
	20:28		19:39		18:41		17:49		16:18	15:45-15:51/6	16:24	
31	05:41	19:45-20:00/15	06:17	18:30-19:09/39			07:33	16:47-17:23/36			07:35	15:27-15:57/30
	20:27		19:37				17:48				16:25	
Potential sun hours	472		436		376		341		288		275	
Sum of minutes with flicker	934		353		1392		895		1197		929	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 15

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 16 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (102)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	07:35	15:06-15:14/8		07:17	15:37-16:20/43		06:36			06:39	18:12-18:58/46		05:48	18:18-19:18/60		05:14		
	16:26	15:36-15:58/22		17:04	16:20-16:38/18		17:44			19:24			20:00	19:18-19:23/5		20:35		
2	07:35	15:09-15:13/4		07:16	15:38-16:20/42		06:34			06:37	18:12-18:57/45		05:46	18:17-19:17/60		05:14		
	16:27	15:36-15:59/23		17:06	16:20-16:40/20		17:45			19:25			20:01	19:17-19:22/5		20:35		
3	07:35	15:35-15:59/24		07:15	15:38-16:20/42		06:33			06:35	18:12-18:57/45		05:45	18:18-19:17/59		05:13		
	16:28			17:07	16:20-16:42/22		17:46			19:26			20:03	19:17-19:21/4		20:36		
4	07:35	15:35-16:00/25		07:14	15:40-16:19/39		06:31			06:34	18:12-19:03/51		05:43	18:19-19:16/57		05:13		
	16:29			17:08	16:19-16:43/24		17:48			19:27			20:04	19:16-19:19/3		20:37		
5	07:35	15:35-16:01/26		07:13	15:40-16:18/38		06:29			06:32	18:12-19:06/54		05:42	18:19-19:15/56		05:12		
	16:30			17:10	16:18-16:44/26		17:49			19:29			20:05	19:15-19:17/2		20:38		
6	07:35	15:35-16:03/28		07:11	15:41-16:18/37		06:27			06:30	18:13-19:07/54		05:40	18:20-19:15/55		05:12		
	16:31			17:11	16:18-16:46/28		17:50			19:30			20:06			20:39		
7	07:35	15:35-16:04/29		07:10	15:43-16:17/34		06:25			06:28	18:13-19:08/55		05:39	18:21-19:13/52		05:12		
	16:32			17:13	16:17-16:47/30		17:52			19:31			20:07			20:39		
8	07:34	15:34-16:04/30		07:09	15:43-16:15/32		07:24			06:26	18:13-19:09/56		05:38	18:21-19:12/51		05:11		
	16:33			17:14	16:15-16:47/32		18:53			19:33			20:09			20:40		
9	07:34	15:35-16:06/31		07:07	15:45-16:15/30		07:22			06:24	18:15-19:11/56		05:36	18:22-19:11/49		05:11		
	16:34			17:16	16:15-16:48/33		18:54			19:34			20:10			20:41		
10	07:34	15:35-16:07/32		07:06	15:46-16:12/26		07:20			06:23	18:16-19:12/56		05:35	18:23-19:11/48		05:11		
	16:35			17:17	16:12-16:47/35		18:56			19:35			20:11			20:41		
11	07:33	15:34-16:08/34		07:05	15:49-16:11/22		07:18			06:21	18:17-19:13/56		05:34	18:24-19:10/46		05:10		
	16:36			17:19	16:11-16:48/37		18:57			19:36			20:12			20:42		
12	07:33	15:34-16:10/36		07:03	15:52-16:07/15		07:16			06:19	18:18-19:14/56		05:33	18:24-19:08/44		05:10		
	16:38			17:20	16:07-16:47/40		18:58			19:38			20:13			20:43		
13	07:33	15:34-16:11/37		07:02	16:04-16:48/44		07:15			06:17	18:19-19:16/57		05:31	18:25-19:07/42		05:10		
	16:39			17:21			18:59			19:39			20:15			20:43		
14	07:32	15:34-16:12/38		07:00	16:04-16:47/43		07:13			06:16	18:22-19:17/55		05:30	18:26-19:06/40		05:10		
	16:40			17:23			19:01			19:40			20:16			20:44		
15	07:32	15:34-16:13/39		06:59	16:04-16:48/44		07:11			06:14	18:21-19:18/57		05:29	18:28-19:05/37		05:10		
	16:41			17:24			19:02			19:41			20:17			20:44		
16	07:31	15:33-16:13/40		06:57	16:04-16:47/43		07:09			06:12	18:20-19:19/59		05:28	18:29-19:04/35		05:10		
	16:42			17:26			19:03			19:43			20:18			20:45		
17	07:31	15:34-16:14/40		06:56	16:05-16:47/42		07:07	18:33-18:42/9		06:10	18:20-19:20/60		05:27	18:31-19:03/32		05:10		
	16:44			17:27			19:05			19:44			20:19			20:45		
18	07:30	15:34-16:15/41		06:54	16:05-16:46/41		07:05	18:29-18:43/14		06:09	18:19-19:20/61		05:26	18:32-19:01/29		05:10		
	16:45			17:28			19:06			19:45	19:20-19:21/1		20:20			20:45		
19	07:29	15:34-16:15/41		06:53	16:07-16:46/39		07:03	18:26-18:45/19		06:07	18:18-19:20/62		05:25	18:34-18:59/25		05:10		
	16:46			17:30			19:07			19:46	19:20-19:22/2		20:21			20:46		
20	07:29	15:33-16:16/43		06:51	16:07-16:44/37		07:02	18:24-18:46/22		06:05	18:18-19:20/62		05:24	18:36-18:57/21		05:10		
	16:48			17:31			19:09			19:48	19:20-19:24/4		20:23			20:46		
21	07:28	15:34-16:17/43		06:49	16:08-16:43/35		07:00	18:22-18:47/25		06:04	18:18-19:20/62		05:23	18:39-18:55/16		05:10		
	16:49			17:33			19:10			19:49	19:20-19:25/5		20:24			20:46		
22	07:27	15:34-16:17/43		06:48	16:10-16:42/32		06:58	18:20-18:49/29		06:02	18:17-19:20/63		05:22	18:43-18:52/9		05:11		
	16:50			17:34			19:11			19:50	19:20-19:26/6		20:25			20:47		
23	07:26	15:34-16:18/44		06:46	16:11-16:41/30		06:56	18:19-18:50/31		06:00	18:17-19:20/63		05:21			05:11		
	16:52			17:35			19:12			19:51	19:20-19:27/7		20:26			20:47		
24	07:25	15:34-16:18/44		06:44	16:12-16:38/26		06:54	18:17-18:51/34		05:59	18:17-19:20/63		05:20			05:11		
	16:53			17:37			19:14			19:53	19:20-19:28/8		20:27			20:47		
25	07:24	15:34-16:18/44		06:43	16:15-16:37/22		06:52	18:16-18:52/36		05:57	18:17-19:20/63		05:19			05:12		
	16:54	16:19-16:27/8		17:38			19:15			19:54	19:20-19:28/8		20:28			20:47		
26	07:24	15:35-16:20/45		06:41	16:18-16:33/15		06:50	18:15-18:53/38		05:55	18:17-19:19/62		05:18			05:12		
	16:56	16:20-16:29/9		17:39			19:16			19:55	19:19-19:27/8		20:29			20:47		
27	07:23	15:35-16:20/45		06:39			06:48	18:15-18:55/40		05:54	18:17-19:20/63		05:18			05:12		
	16:57	16:20-16:31/11		17:41			19:17			19:56	19:20-19:27/7		20:30			20:47		
28	07:22	15:35-16:20/45		06:38			06:47	18:14-18:56/42		05:52	18:17-19:19/62		05:17			05:13		
	16:59	16:20-16:32/12		17:42			19:19			19:58	19:19-19:26/7		20:31			20:47		
29	07:21	15:36-16:20/44					06:45	18:13-18:57/44		05:51	18:17-19:19/62		05:16			05:13		
	17:00	16:20-16:34/14					19:20			19:59	19:19-19:26/7		20:32			20:47		
30	07:20	15:36-16:21/45					06:43	18:13-18:59/46		05:49	18:17-19:18/61		05:16			05:14		
	17:01	16:21-16:36/15					19:21			20:00	19:18-19:24/6		20:33			20:47		
31	07:18	15:36-16:20/44					06:41	18:12-18:58/46					05:15					
	17:03	16:20-16:36/16					19:22						20:34					
Potential sun hours	286			291			369			404			459			466		
Sum of minutes with flicker	1242			1238			475			1803			942			0		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 16

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 16 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (102)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14 20:47	05:42 18:34-19:19/45 20:25	06:18 18:15-19:12/57 19:35	06:54 18:39	06:34 15:16-15:42/26 16:46 15:42-16:17/35	07:14 15:16-15:50/34 16:18					
2	05:15 20:47	05:43 18:33-19:20/47 20:24	06:19 18:14-19:10/56 19:33	06:55 18:37	06:36 15:15-15:45/30 16:45 15:45-16:17/32	07:15 15:17-15:50/33 16:17					
3	05:15 20:47	05:44 18:33-19:22/49 20:23	06:20 18:12-19:08/56 19:32	06:56 18:35	06:37 15:13-15:45/32 16:44 15:45-16:17/32	07:16 15:19-15:50/31 16:17					
4	05:16 20:47	05:45 18:32-19:22/50 20:22	06:22 18:11-19:07/56 19:30	06:58 18:33	06:38 15:11-15:46/35 16:42 15:46-16:16/30	07:17 15:19-15:49/30 16:17					
5	05:16 20:46	05:46 18:31-19:23/52 20:20	06:23 18:10-19:05/55 19:28	06:59 18:31	06:40 15:11-15:48/37 16:41 15:48-16:16/28	07:18 15:20-15:49/29 16:16					
6	05:17 20:46	05:47 18:30-19:23/53 20:19	06:24 18:09-19:03/54 19:26	07:00 18:30	06:41 15:09-15:48/39 16:40 15:48-16:14/26	07:19 15:21-15:49/28 16:16					
7	05:18 20:46	05:49 18:29-19:25/56 20:18	06:25 18:08-19:01/53 19:24	07:01 18:28	06:42 15:09-15:49/40 16:38 15:49-16:13/24	07:20 15:22-15:48/26 16:16					
8	05:19 20:45	05:50 18:28-19:25/57 20:16	06:26 18:07-18:57/50 19:22	07:03 18:26	06:44 15:08-15:49/41 16:37 15:49-16:11/22	07:21 15:23-15:48/25 16:16					
9	05:19 20:45	05:51 18:27-19:25/58 20:15	06:28 18:06-18:49/43 19:20	07:04 18:24	06:45 15:08-15:51/43 16:36 15:51-16:10/19	07:22 15:24-15:48/24 16:16					
10	05:20 20:44	05:52 18:27-19:25/58 20:13	06:29 18:05-18:51/46 19:19	07:05 18:22	06:46 15:08-15:51/43 16:35 15:51-16:09/18	07:23 14:58-15:01/3 16:16					
11	05:21 20:44	05:53 18:26-19:26/60 20:12	06:30 18:05-18:51/46 19:17	07:06 18:21	06:48 15:08-15:52/44 16:33 15:52-16:08/16	07:24 14:57-15:04/7 16:16					
12	05:22 20:43	05:54 18:25-19:26/61 20:10	06:31 18:05-18:51/46 19:15	07:08 18:19	06:49 15:07-15:51/44 16:32 15:51-16:06/15	07:25 14:56-15:06/10 16:16					
13	05:23 20:43	05:56 18:25-19:27/62 20:09	06:32 18:04-18:50/46 19:13	07:09 18:17	06:51 15:08-15:52/44 16:31 15:52-16:06/14	07:26 14:56-15:07/11 16:16					
14	05:23 20:42	05:57 18:25-19:27/62 20:07	06:34 18:04-18:48/44 19:11	07:10 18:15	06:52 15:07-15:52/45 16:30 15:52-16:04/12	07:27 14:54-15:08/14 16:16					
15	05:24 20:42	05:58 18:24-19:26/62 20:06	06:35 18:03-18:46/43 19:09	07:12 16:53-17:02/9 18:13	06:53 15:08-15:53/45 16:29 15:53-16:04/11	07:27 14:55-15:09/14 16:16					
16	05:25 20:41	05:59 18:24-19:26/62 20:04	06:36 18:03-18:44/41 19:07	07:13 16:48-17:06/18 18:12	06:55 15:08-15:53/45 16:28 15:53-16:02/9	07:28 14:55-15:10/15 16:16					
17	05:26 20:40	06:00 18:23-19:26/63 20:03	06:37 18:03-18:42/39 19:05	07:14 16:46-17:09/23 18:10	06:56 15:08-15:53/45 16:27 15:53-16:00/7	07:29 14:54-15:10/16 16:17					
18	05:27 20:39	06:01 18:23-19:26/63 20:01	06:38 18:04-18:41/37 19:03	07:15 16:43-17:11/28 18:08	06:57 15:08-15:52/44 16:26	07:29 14:55-15:11/16 16:17					
19	05:28 20:39	06:03 18:22-19:25/63 19:58	06:39 18:04-18:39/35 19:02	07:17 16:42-17:13/31 18:07	06:59 15:08-15:52/44 16:25	07:30 14:56-15:12/16 16:17					
20	05:29 20:38	06:04 18:23-19:26/63 19:56	06:41 18:05-18:36/31 19:00	07:18 16:40-17:13/33 18:05	07:00 15:09-15:52/43 16:24	07:31 14:55-15:12/17 16:18					
21	05:30 20:37	06:05 18:23-19:25/62 19:54	06:42 18:05-18:34/29 18:58	07:19 16:38-17:14/36 18:03	07:01 15:09-15:52/43 16:24	07:31 14:56-15:13/17 16:18					
22	05:31 18:51-19:03/12 20:36	06:06 18:22-19:25/63 19:53	06:43 18:06-18:32/26 18:56	07:21 16:37-17:15/38 18:02	07:03 15:10-15:53/43 16:23	07:32 14:56-15:13/17 16:19					
23	05:32 18:48-19:07/19 20:35	06:07 18:22-19:24/62 19:51	06:44 18:07-18:30/23 18:54	07:22 16:36-17:15/39 18:00	07:04 15:11-15:52/41 16:22	07:32 14:57-15:14/17 16:19					
24	05:33 18:46-19:09/23 20:34	06:09 18:22-19:23/61 19:49	06:45 18:09-18:29/20 18:52	07:23 16:36-17:17/41 17:58	07:05 15:11-15:52/41 16:21	07:33 14:57-15:14/17 16:20					
25	05:34 18:44-19:11/27 20:33	06:10 18:22-19:23/61 19:48	06:47 18:11-18:27/16 18:50	07:25 16:35-17:17/42 17:57	07:06 15:12-15:53/41 16:21	07:33 14:58-15:14/16 16:20					
26	05:35 18:42-19:12/30 20:32	06:11 18:22-19:22/60 19:46	06:48 18:14-18:25/11 18:48	07:26 16:34-17:16/42 17:55	07:08 15:12-15:52/40 16:20	07:33 14:59-15:15/16 16:21					
27	05:36 18:40-19:14/34 20:31	06:12 18:22-19:20/58 19:44	06:49 18:46	07:27 16:34-17:17/43 17:54	07:09 15:13-15:52/39 16:20	07:34 15:00-15:15/15 16:22					
28	05:37 18:39-19:15/36 20:30	06:13 18:23-19:19/56 19:42	06:50 18:44	07:29 16:33-17:17/44 17:52	07:10 15:13-15:51/38 16:19	07:34 15:00-15:15/15 16:22					
29	05:38 18:38-19:16/38 20:29	06:15 18:23-19:18/55 19:41	06:51 18:43	07:30 16:26-16:32/6 17:51	07:11 15:15-15:52/37 16:18	07:34 15:01-15:15/14 16:23					
30	05:39 18:36-19:17/41 20:28	06:16 18:20-19:16/56 19:39	06:53 18:41	07:31 16:21-16:38/17 17:49	07:12 15:16-15:51/35 16:18	07:35 15:02-15:15/13 16:24					
31	05:41 18:35-19:18/43 20:27	06:17 18:18-19:14/56 19:37		07:33 16:18-16:41/23 17:48		07:35 15:04-15:15/11 16:25					
Potential sun hours		472	436	376	341	288	275				
Sum of minutes with flicker		303	1895	1061	633	1557	964				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 17

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 17 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (103)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35 15:07-15:51/44 16:26 15:51-15:58/7	07:17 15:07-16:11/64 17:04 16:11-16:21/10	06:36 16:30-17:13/43 17:44	06:39 17:44	05:48 18:47-19:32/45 20:00	05:14 05:41-05:54/13 20:35					
2	07:35 15:07-15:52/45 16:27 15:52-15:59/7	07:16 15:07-16:11/64 17:06 16:11-16:21/10	06:34 16:30-17:13/43 17:45	06:37 17:45	05:46 18:46-19:31/45 20:01	05:14 05:39-05:55/16 20:35					
3	07:35 15:06-15:52/46 16:28 15:52-15:59/7	07:15 15:08-16:12/64 17:07 16:12-16:21/9	06:33 16:30-17:12/42 17:46	06:35 17:46	05:45 18:47-19:32/45 20:03	05:13 05:39-05:57/18 20:36					
4	07:35 15:06-15:53/47 16:29 15:53-16:00/7	07:14 15:08-16:12/64 17:08 16:12-16:21/9	06:31 16:30-17:11/41 17:48	06:34 17:48	05:43 18:47-19:32/45 20:04	05:13 05:39-05:58/19 20:37					
5	07:35 15:07-15:54/47 16:30 15:54-16:01/7	07:13 15:08-16:11/63 17:10 16:11-16:20/9	06:29 16:30-17:10/40 17:49	06:32 17:49	05:42 18:46-19:31/45 20:05	05:12 05:38-05:58/20 20:38					
6	07:35 15:07-15:55/48 16:31 15:55-16:03/8	07:11 15:09-16:11/62 17:11 16:11-16:19/8	06:27 16:31-17:10/39 17:50	06:30 17:50	05:41 18:47-19:31/44 20:06	05:12 05:38-05:59/21 20:39					
7	07:35 15:07-15:56/49 16:32 15:56-16:04/8	07:10 15:10-16:11/61 17:13 16:11-16:19/8	06:25 16:32-17:09/37 17:52	06:28 17:52	05:39 18:47-19:31/44 20:07	05:12 05:37-05:59/22 20:39					
8	07:34 15:06-15:56/50 16:33 15:56-16:04/8	07:09 15:10-16:10/60 17:14 16:10-16:18/8	07:24 17:33-18:07/34 18:53	06:26 18:53	05:38 18:47-19:30/43 20:09	05:11 05:37-06:00/23 20:40					
9	07:34 15:06-15:58/52 16:34 15:58-16:06/8	07:07 15:11-16:10/59 17:16 16:10-16:17/7	07:22 17:34-18:05/31 18:54	06:24 18:54	05:36 18:47-19:30/43 20:10	05:11 05:37-06:00/23 20:41					
10	07:34 15:07-15:59/52 16:35 15:59-16:07/8	07:06 15:11-16:09/58 17:17 16:09-16:15/6	07:20 17:35-18:03/28 18:56	06:23 19:35	05:35 18:48-19:29/41 20:11	05:11 05:37-06:01/24 20:41					
11	07:33 15:06-15:59/53 16:36 15:59-16:08/9	07:05 15:12-16:09/57 17:19 16:09-16:15/6	07:18 17:38-18:02/24 18:57	06:21 19:36	05:34 18:49-19:29/40 20:12	05:10 05:37-06:02/25 20:42					
12	07:33 15:07-16:01/54 16:38 16:01-16:10/9	07:03 15:13-16:08/55 17:20 16:08-16:12/4	07:16 17:40-17:59/19 18:58	06:19 19:38	05:33 18:48-19:28/40 20:13	05:10 05:37-06:02/25 20:43					
13	07:33 15:06-16:01/55 16:39 16:01-16:11/10	07:02 15:14-16:07/53 17:21 16:07-16:11/4	07:15 17:44-17:54/10 18:59	06:17 19:39	05:31 18:49-19:27/38 20:15	05:10 05:36-06:02/26 20:43					
14	07:32 15:06-16:02/56 16:40 16:02-16:12/10	07:00 15:15-16:06/51 17:23 16:06-16:07/1	07:13 16:42-16:58/16 19:01	06:16 19:40	05:30 18:50-19:26/36 20:16	05:10 05:36-06:02/26 20:44					
15	07:32 15:06-16:03/57 16:41 16:03-16:13/10	06:59 15:17-16:05/48 17:24 16:40-17:00/20	07:11 19:02	06:14 19:41	05:29 18:51-19:26/35 20:17	05:10 05:36-05:48/12 20:44					
16	07:31 15:05-16:03/58 16:42 16:03-16:14/11	06:57 15:17-16:03/46 17:26 16:38-17:01/23	07:09 19:03	06:12 19:07-19:16/9 19:43	05:28 18:52-19:25/33 20:18	05:10 05:37-05:49/12 20:45					
17	07:31 15:06-16:05/59 16:44 16:05-16:15/10	06:56 15:20-16:02/42 17:27 16:37-17:03/26	07:07 19:05	06:10 19:03-19:20/17 19:44	05:27 18:53-19:24/31 20:19	05:10 05:37-05:50/13 20:45					
18	07:30 15:06-16:05/59 16:45 16:05-16:16/11	06:54 15:21-16:00/39 17:28 16:35-17:04/29	07:05 19:06	06:09 19:00-19:21/21 19:45	05:26 18:54-19:23/29 20:20	05:10 05:38-05:51/13 20:45					
19	07:29 15:05-16:05/60 16:46 16:05-16:16/11	06:53 15:24-15:59/35 17:30 16:34-17:06/32	07:03 19:07	06:07 18:57-19:22/25 19:46	05:25 18:55-19:22/27 20:21	05:10 05:38-05:52/14 20:46					
20	07:29 15:05-16:06/61 16:48 16:06-16:17/11	06:51 15:26-15:56/30 17:31 16:33-17:07/34	07:02 19:09	06:05 18:56-19:24/28 19:48	05:24 18:56-19:21/25 20:23	05:10 05:38-05:52/14 20:46					
21	07:28 15:06-16:07/61 16:49 16:07-16:18/11	06:49 15:28-15:53/25 17:33 16:32-17:09/37	07:00 19:10	06:04 18:54-19:25/31 19:49	05:23 18:58-19:19/21 20:24	05:10 05:38-05:52/14 20:46					
22	07:27 15:06-16:08/62 16:50 16:08-16:19/11	06:48 15:33-15:50/17 17:34 16:32-17:11/39	06:58 19:11	06:02 18:52-19:26/34 19:50	05:22 19:00-19:19/19 20:25	05:11 05:38-05:52/14 20:47					
23	07:26 15:06-16:08/62 16:52 16:08-16:19/11	06:46 16:31-17:12/41 17:35	06:56 19:12	06:00 18:52-19:27/35 19:51	05:21 19:02-19:17/15 20:26	05:11 05:39-05:53/14 20:47					
24	07:25 15:06-16:09/63 16:53 16:09-16:19/10	06:44 16:30-17:13/43 17:37	06:54 19:14	05:59 18:50-19:28/38 19:53	05:20 19:05-19:14/9 20:27	05:11 05:39-05:52/13 20:47					
25	07:24 15:06-16:09/63 16:54 16:09-16:20/11	06:43 16:30-17:14/44 17:38	06:52 19:15	05:57 18:50-19:30/40 19:54	05:19 20:28	05:12 05:39-05:52/13 20:47					
26	07:24 15:06-16:10/64 16:56 16:10-16:20/10	06:41 16:30-17:14/44 17:39	06:50 19:16	05:55 18:49-19:31/42 19:55	05:18 20:29	05:12 05:39-05:51/12 20:47					
27	07:23 15:06-16:10/64 16:57 16:10-16:21/11	06:39 16:29-17:13/44 17:41	06:48 19:17	05:54 18:49-19:32/43 19:56	05:18 20:30	05:12 05:40-05:51/11 20:47					
28	07:22 15:06-16:10/64 16:59 16:10-16:21/11	06:38 16:29-17:13/44 17:42	06:47 19:19	05:52 18:48-19:31/43 19:58	05:17 20:31	05:13 05:39-05:50/11 20:47					
29	07:21 15:06-16:11/65 17:00 16:11-16:21/10		06:45 19:20	05:51 18:48-19:32/44 19:59	05:16 20:32	05:13 05:40-06:06/26 20:47					
30	07:20 15:07-16:11/64 17:01 16:11-16:21/10		06:43 19:21	05:49 18:47-19:32/45 20:00	05:16 05:44-05:51/7 20:33	05:14 05:40-06:06/26 20:47					
31	07:18 15:06-16:11/65 17:03 16:11-16:21/10		06:41 19:22		05:15 05:41-05:52/11 20:34						
Potential sun hours											
Sum of minutes with flicker											
286		291	369	404	459	466					
2042		1744	431	495	856	722					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 18

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 17 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (103)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14	05:41-06:06/25	05:42	18:59-19:38/39	06:18		06:54	17:20-17:36/16	06:34	14:41-15:39/58	07:14	14:48-15:41/53
	20:47		20:25		19:35		18:39		16:46	15:39-15:45/6	16:18	15:41-15:50/9
2	05:15	05:41-06:05/24	05:43	18:58-19:39/41	06:19		06:55	17:16-17:39/23	06:35	14:40-15:40/60	07:15	14:49-15:41/52
	20:47		20:24		19:33		18:37		16:45	15:40-15:47/7	16:17	15:41-15:50/9
3	05:15	05:42-06:06/24	05:44	18:58-19:40/42	06:20		06:56	17:14-17:41/27	06:37	14:39-15:40/61	07:16	14:50-15:42/52
	20:47		20:23		19:32		18:35		16:44	15:40-15:48/8	16:17	15:42-15:50/8
4	05:16	05:42-06:05/23	05:45	18:58-19:40/42	06:22		06:58	17:12-17:42/30	06:38	14:39-15:40/61	07:17	14:51-15:41/50
	20:47		20:22		19:30		18:33		16:42	15:40-15:48/8	16:17	15:41-15:49/8
5	05:16	05:43-06:05/22	05:46	18:57-19:40/43	06:23		06:59	17:10-17:43/33	06:40	14:39-15:41/62	07:18	14:52-15:41/49
	20:46		20:20		19:28		18:31		16:41	15:41-15:49/8	16:16	15:41-15:49/8
6	05:17	05:44-06:05/21	05:47	18:57-19:41/44	06:24		07:00	17:08-17:44/36	06:41	14:38-15:41/63	07:19	14:53-15:41/48
	20:46		20:19		19:26		18:30		16:40	15:41-15:50/9	16:16	15:41-15:49/8
7	05:18	05:44-06:04/20	05:49	18:56-19:41/45	06:25		07:01	17:08-17:45/37	06:42	14:38-15:42/64	07:20	14:54-15:41/47
	20:46		20:18		19:24		18:28		16:38	15:42-15:51/9	16:16	15:41-15:48/7
8	05:19	05:45-06:04/19	05:50	18:56-19:41/45	06:26		07:03	17:06-17:45/39	06:44	14:38-15:41/63	07:21	14:54-15:41/47
	20:45		20:16		19:22		18:26		16:37	15:41-15:51/10	16:16	15:41-15:48/7
9	05:19	05:46-06:04/18	05:51	18:55-19:40/45	06:28		07:04	17:05-17:46/41	06:45	14:38-15:42/64	07:22	14:55-15:41/46
	20:45		20:15		19:20		18:24		16:36	15:42-15:52/10	16:16	15:41-15:48/7
10	05:20	05:47-06:04/17	05:52	18:55-19:40/45	06:29		07:05	17:05-17:47/42	06:46	14:37-15:42/65	07:23	14:56-15:41/45
	20:44		20:13		19:19		18:22		16:35	15:42-15:52/10	16:16	15:41-15:48/7
11	05:21	05:47-06:02/15	05:53	18:55-19:40/45	06:30		07:06	17:04-17:46/42	06:48	14:38-15:43/65	07:24	14:57-15:41/44
	20:44		20:12		19:17		18:21		16:33	15:43-15:52/9	16:16	15:41-15:48/7
12	05:22	05:49-06:01/12	05:54	18:55-19:40/45	06:31		07:08	17:03-17:46/43	06:49	14:38-15:42/64	07:25	14:58-15:41/43
	20:43		20:10		19:15		18:19		16:32	15:42-15:52/10	16:16	15:41-15:48/7
13	05:23	05:51-06:00/9	05:56	18:55-19:40/45	06:32		07:09	17:02-17:46/44	06:51	14:38-15:43/65	07:26	14:59-15:41/42
	20:43		20:09		19:13		18:17		16:31	15:43-15:53/10	16:16	15:41-15:47/6
14	05:23	05:54-05:57/3	05:57	18:55-19:40/45	06:34		07:10	17:02-17:46/44	06:52	14:38-15:42/64	07:27	14:59-15:41/42
	20:42		20:07		19:11		18:15		16:30	15:42-15:53/11	16:16	15:41-15:48/7
15	05:24		05:58	18:55-19:39/44	06:35		07:11	17:02-17:46/44	06:53	14:39-15:43/64	07:27	15:00-15:41/41
	20:42		20:06		19:09		18:13		16:29	15:43-15:54/11	16:16	15:41-15:48/7
16	05:25		05:59	18:55-19:38/43	06:36		07:13	17:01-17:45/44	06:55	14:39-15:43/64	07:28	15:01-15:42/41
	20:41		20:04		19:07		18:12		16:28	15:43-15:53/10	16:16	15:42-15:48/6
17	05:26		06:00	18:56-19:37/41	06:37		07:14	17:02-17:45/43	06:56	14:39-15:42/63	07:29	15:01-15:41/40
	20:40		20:03		19:05		18:10		16:27	15:42-15:53/11	16:17	15:41-15:48/7
18	05:27		06:01	18:56-19:35/39	06:38		07:15	17:02-17:44/42	06:57	14:40-15:43/63	07:29	15:02-15:42/40
	20:39		20:01		19:03		18:08		16:26	15:43-15:53/10	16:17	15:42-15:49/7
19	05:28	19:17-19:20/3	06:03	18:56-19:34/38	06:39		07:17	16:09-16:16/7	06:59	14:40-15:42/62	07:30	15:03-15:43/40
	20:39		19:58		19:02		18:07	17:02-17:43/41	16:25	15:42-15:53/11	16:17	15:43-15:49/6
20	05:29	19:13-19:25/12	06:04	18:58-19:33/35	06:41		07:18	16:02-16:22/20	07:00	14:41-15:43/62	07:31	15:03-15:42/39
	20:38		19:56		19:00		18:05	17:02-17:41/39	16:24	15:43-15:54/11	16:18	15:42-15:49/7
21	05:30	19:11-19:27/16	06:05	18:58-19:31/33	06:42		07:19	15:58-16:24/26	07:01	14:41-15:42/61	07:31	15:04-15:43/39
	20:37		19:54		18:58		18:03	17:03-17:39/36	16:24	15:42-15:53/11	16:18	15:43-15:50/7
22	05:31	19:09-19:29/20	06:06	18:59-19:29/30	06:43		07:21	15:55-16:27/32	07:03	14:42-15:43/61	07:32	15:04-15:43/39
	20:36		19:53		18:56		18:02	17:04-17:37/33	16:23	15:43-15:54/11	16:19	15:43-15:50/7
23	05:32	19:07-19:31/24	06:07	19:00-19:28/28	06:44		07:22	15:53-16:29/36	07:04	14:42-15:42/60	07:32	15:05-15:44/39
	20:35		19:51		18:54		18:00	17:04-17:35/31	16:22	15:42-15:53/11	16:19	15:44-15:51/7
24	05:33	19:06-19:32/26	06:09	19:01-19:26/25	06:45		07:23	15:51-16:31/40	07:05	14:43-15:42/59	07:33	15:05-15:44/39
	20:34		19:49		18:52		17:58	17:06-17:34/28	16:21	15:42-15:53/11	16:20	15:44-15:51/7
25	05:34	19:05-19:33/28	06:10	19:03-19:24/21	06:47		07:25	15:49-16:32/43	07:06	14:44-15:43/59	07:33	15:05-15:45/40
	20:33		19:48		18:50		17:57	17:07-17:32/25	16:21	15:43-15:54/11	16:20	15:45-15:52/7
26	05:35	19:04-19:34/30	06:11	19:05-19:22/17	06:48		07:26	15:47-16:33/46	07:08	14:45-15:42/57	07:33	15:06-15:46/40
	20:32		19:46		18:48		17:55	17:08-17:30/22	16:20	15:42-15:53/11	16:21	15:46-15:53/7
27	05:36	19:03-19:35/32	06:12	19:10-19:18/8	06:49		07:27	15:46-16:34/48	07:09	14:45-15:42/57	07:34	15:06-15:46/40
	20:31		19:44		18:46		17:54	17:10-17:29/19	16:20	15:42-15:52/10	16:22	15:46-15:53/7
28	05:37	19:02-19:36/34	06:13		06:50		07:29	15:44-16:36/52 17:12-17:27/15	07:10	14:45-15:41/56	07:34	15:06-15:47/41
	20:30		19:42		18:44		17:52	16:36-16:38/2	16:19	15:41-15:52/11	16:22	15:47-15:54/7
29	05:38	19:01-19:37/36	06:15		06:51		07:30	15:44-16:37/53 17:16-17:26/10	07:11	14:47-15:42/55	07:34	15:06-15:48/42
	20:29		19:41		18:43		17:51	16:37-16:41/4	16:18	15:42-15:52/10	16:23	15:48-15:54/6
30	05:39	19:00-19:37/37	06:16		06:53 17:28-17:30/2		07:31	15:42-16:38/56	07:12	14:48-15:42/54	07:35	15:06-15:48/42
	20:28		19:39		18:41		17:49	16:38-16:42/4	16:18	15:42-15:51/9	16:24	15:48-15:55/7
31	05:41	19:00-19:38/38	06:17				07:33	15:42-16:39/57			07:35	15:07-15:50/43
	20:27		19:37				17:48	16:39-16:45/6			16:25	15:50-15:57/7
Potential sun hours	472		436		376		341		288		275	
Sum of minutes with flicker	588		1013		2		1501		2131		1566	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 19

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 18 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (104)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	08:12-08:54/42	07:17	08:30-08:53/23	06:36	07:28-07:38/10	06:39		05:48	19:09-19:37/28	05:14	19:07-19:42/35
	16:26		17:04		17:44		19:24		20:00		20:35	19:27-20:09/42
2	07:35	08:12-08:54/42	07:16	08:32-08:52/20	06:34		06:37		05:46	19:07-19:37/30	05:14	19:07-19:42/35
	16:27		17:06		17:45		19:25		20:01		20:35	19:27-20:09/42
3	07:35	08:12-08:55/43	07:15	08:36-08:49/13	06:33		06:35		05:45	19:06-19:39/33	05:13	19:08-19:42/34
	16:28		17:07		17:46		19:26		20:03		20:36	19:28-20:10/42
4	07:35	08:12-08:55/43	07:14		06:31		06:34		05:43	19:05-19:40/35	05:13	19:08-19:41/33
	16:29		17:08		17:48		19:27		20:04		20:37	19:28-20:10/42
5	07:35	08:12-08:55/43	07:13		06:29		06:32		05:42	19:04-19:41/37	05:12	19:09-19:41/32
	16:30		17:10		17:49		19:29		20:05		20:38	19:29-20:11/42
6	07:35	08:13-08:56/43	07:11		06:27		06:30		05:40	19:04-19:42/38	05:12	19:10-19:41/31
	16:31		17:11		17:50		19:30		20:06		20:39	19:30-20:12/42
7	07:35	08:13-08:57/44	07:10		06:25		06:28		05:39	19:02-19:43/41	05:11	19:10-19:40/30
	16:32		17:13		17:52		19:31		20:07		20:39	19:30-20:12/42
8	07:34	08:13-08:57/44	07:09		07:24		06:26		05:38	19:02-19:44/42	05:11	19:11-19:40/29
	16:33		17:14		18:53		19:33		20:09		20:40	19:31-20:13/42
9	07:34	08:14-08:58/44	07:07	07:29-07:40/11	07:22		06:24		05:36	19:02-19:46/44	05:11	19:12-19:40/28
	16:34		17:16		18:54		19:34		20:10	19:45-19:46/1	20:41	19:32-20:14/42
10	07:34	08:14-08:59/45	07:06	07:27-07:42/15	07:20		06:23		05:35	19:02-19:47/45	05:11	19:13-19:40/27
	16:35		17:17		18:56		19:35		20:11	19:46-19:47/1	20:41	19:33-20:15/42
11	07:33	08:14-08:58/44	07:05	07:26-07:44/18	07:18		06:21		05:34	19:02-19:47/45	05:10	19:13-19:39/26
	16:36		17:18		18:57		19:36		20:12	19:46-19:48/2	20:42	19:32-20:15/43
12	07:33	08:15-08:59/44	07:03	07:25-07:46/21	07:16		06:19		05:33	19:01-19:46/45	05:10	19:13-19:39/26
	16:37		17:20		18:58		19:38		20:13	19:45-19:49/4	20:43	19:33-20:15/42
13	07:33	08:15-08:59/44	07:02	07:23-07:47/24	07:14		06:17		05:31	19:01-19:47/46	05:10	19:14-19:39/25
	16:39		17:21		18:59		19:39		20:15	19:46-19:50/4	20:43	19:34-20:16/42
14	07:32	08:16-09:00/44	07:00	07:22-07:48/26	07:13		06:15		05:30	19:01-19:47/46	05:10	19:15-19:39/24
	16:40		17:23		19:01		19:40		20:16	19:46-19:51/5	20:44	19:34-20:16/42
15	07:32	08:16-09:00/44	06:59	07:20-07:48/28	07:11		06:14		05:29	19:01-19:47/46	05:10	19:15-19:39/24
	16:41		17:24		19:02		19:41		20:17	19:46-19:52/6	20:44	19:35-20:17/42
16	07:31	08:17-09:01/44	06:57	07:19-07:48/29	07:09		06:12		05:28	19:01-19:47/46	05:10	19:16-19:39/23
	16:42		17:26		19:03		19:43		20:18	19:46-19:53/7	20:45	19:36-20:17/41
17	07:31	08:17-09:01/44	06:56	07:19-07:49/30	07:07		06:10		05:27	19:01-19:47/46	05:10	19:16-19:39/23
	16:44		17:27		19:05		19:44		20:19	19:46-19:54/8	20:45	19:36-20:17/41
18	07:30	08:17-09:01/44	06:54	07:18-07:49/31	07:05		06:09		05:26	19:01-19:47/46	05:10	19:16-19:39/23
	16:45		17:28		19:06		19:45		20:20	19:46-19:55/9	20:45	19:36-20:18/42
19	07:29	08:17-09:01/44	06:53	07:19-07:50/31	07:03		06:07		05:25	19:01-19:47/46	05:10	19:16-19:51/35
	16:46		17:30		19:07		19:46		20:22	19:46-19:56/10	20:46	19:52-20:18/26
20	07:29	08:19-09:01/42	06:51	07:18-07:49/31	07:01		06:05		05:24	19:01-19:45/44	05:10	19:18-19:52/34
	16:48		17:31		19:08		19:48		20:23	19:23-19:57/34	20:46	19:53-20:19/26
21	07:28	08:19-09:01/42	06:49	07:18-07:49/31	07:00		06:03		05:23	19:01-19:44/43	05:10	19:18-19:52/34
	16:49		17:33		19:10		19:49		20:24	19:23-19:58/35	20:46	19:53-20:19/26
22	07:27	08:20-09:01/41	06:48	07:19-07:49/30	06:58		06:02		05:22	19:02-19:44/42	05:11	19:18-19:52/34
	16:50		17:34		19:11		19:50		20:25	19:23-19:59/36	20:47	19:53-20:19/26
23	07:26	08:20-09:01/41	06:46	07:19-07:48/29	06:56		06:00		05:21	19:03-19:45/42	05:11	19:17-19:52/35
	16:52		17:35		19:12		19:51		20:26	19:24-20:01/37	20:47	19:53-20:19/26
24	07:25	08:21-09:00/39	06:44	07:19-07:47/28	06:54		05:59		05:20	19:03-19:44/41	05:11	19:18-19:53/35
	16:53		17:37		19:14		19:53		20:27	19:24-20:01/37	20:47	19:54-20:20/26
25	07:24	08:22-09:00/38	06:43	07:21-07:46/25	06:52		05:57		05:19	19:03-19:44/41	05:11	19:18-19:41/23
	16:54		17:38		19:15		19:54		20:28	19:24-20:02/38	20:47	19:38-20:20/42
26	07:24	08:22-09:00/38	06:41	07:21-07:45/24	06:50		05:55		05:18	19:03-19:43/40	05:12	19:18-19:41/23
	16:56		17:39		19:16		19:55		20:29	19:24-20:03/39	20:47	19:38-20:19/41
27	07:23	08:23-08:59/36	06:39	07:22-07:43/21	06:48		05:54	19:20-19:30/10	05:18	19:04-19:44/40	05:12	19:18-19:42/24
	16:57		17:41		19:17		19:56		20:30	19:25-20:04/39	20:47	19:38-20:20/42
28	07:22	08:25-08:59/34	06:38	07:24-07:40/16	06:47		05:52	19:15-19:33/18	05:17	19:05-19:43/38	05:13	19:18-19:42/24
	16:58		17:42		19:19		19:58		20:31	19:25-20:05/40	20:47	19:38-20:20/42
29	07:21	08:26-08:58/32			06:45		05:51	19:13-19:35/22	05:16	19:05-19:43/38	05:13	19:18-19:43/25
	17:00				19:20		19:59		20:32	19:25-20:05/40	20:47	19:38-20:20/42
30	07:20	08:27-08:57/30			06:43		05:49	19:11-19:35/24	05:15	19:06-19:43/37	05:13	19:18-19:43/25
	17:01				19:21		20:00		20:33	19:26-20:07/41	20:47	19:37-20:19/42
31	07:18	08:29-08:56/27			06:41				05:15	19:06-19:42/36		
	17:03				19:22				20:34	19:26-20:07/41		
Potential sun hours	286		291		369		404		459		466	
Sum of minutes with flicker	1269		555		10		74		1554		1852	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 20

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 18 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (104)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14	19:18-19:44/26	05:42	19:11-19:57/46	06:18	06:54			06:34	06:57-07:11/14	07:14	07:56-08:40/44
	20:47	19:38-20:20/42	20:25	19:56-19:59/3	19:35	18:39			16:46		16:17	
2	05:15	19:17-19:44/27	05:43	19:11-19:56/45	06:19	06:55			06:36	06:59-07:09/10	07:15	07:56-08:41/45
	20:47	19:37-20:19/42	20:24	19:55-19:57/2	19:33	18:37			16:45		16:17	
3	05:15	19:17-19:45/28	05:44	19:11-19:56/45	06:20	06:56			06:37		07:16	07:58-08:42/44
	20:47	19:37-20:19/42	20:23	19:55-19:56/1	19:32	18:35			16:44		16:17	
4	05:16	19:17-19:45/28	05:45	19:13-19:56/43	06:22	06:58			06:38		07:17	07:58-08:42/44
	20:47	19:36-20:19/43	20:22	19:55-19:56/1	19:30	18:33			16:42		16:16	
5	05:16	19:17-19:46/29	05:46	19:13-19:54/41	06:23	06:59			06:40		07:18	07:58-08:42/44
	20:46	19:36-20:19/43	20:20		19:28	18:31			16:41		16:16	
6	05:17	19:17-19:47/30	05:47	19:13-19:53/40	06:24	07:00			06:41		07:19	07:59-08:42/43
	20:46	19:37-20:19/42	20:19		19:26	18:30			16:39		16:16	
7	05:18	19:16-19:47/31	05:48	19:14-19:52/38	06:25	07:01			06:42		07:20	07:59-08:43/44
	20:46	19:36-20:18/42	20:18		19:24	18:28			16:38		16:16	
8	05:18	19:16-19:48/32	05:50	19:14-19:50/36	06:26	07:03			06:44	08:05-08:19/14	07:21	08:00-08:43/43
	20:45	19:36-20:18/42	20:16		19:22	18:26			16:37		16:16	
9	05:19	19:16-19:49/33	05:51	19:15-19:49/34	06:28	07:04			06:45	08:03-08:23/20	07:22	08:00-08:43/43
	20:45	19:36-20:18/42	20:15		19:20	18:24			16:36		16:16	
10	05:20	19:15-19:49/34	05:52	19:15-19:47/32	06:29	07:05			06:46	08:01-08:24/23	07:23	08:01-08:44/43
	20:44	19:35-20:16/41	20:13		19:19	18:22			16:35		16:16	
11	05:21	19:15-19:50/35	05:53	19:16-19:46/30	06:30	07:06			06:48	08:00-08:27/27	07:24	08:02-08:44/42
	20:44	19:35-20:16/41	20:12		19:17	18:20			16:33		16:16	
12	05:22	19:15-19:50/35	05:54	19:17-19:44/27	06:31	07:08	08:05-08:07/2		06:49	07:58-08:28/30	07:25	08:02-08:44/42
	20:43	19:35-20:16/41	20:10		19:15	18:19			16:32		16:16	
13	05:22	19:14-19:51/37	05:56	19:20-19:44/24	06:32	07:09	08:00-08:13/13		06:51	07:58-08:30/32	07:26	08:03-08:45/42
	20:43	19:35-20:16/41	20:09		19:13	18:17			16:31		16:16	
14	05:23	19:14-19:52/38	05:57	19:21-19:42/21	06:33	07:10	07:57-08:15/18		06:52	07:56-08:31/35	07:27	08:03-08:44/41
	20:42	19:34-20:15/41	20:07		19:11	18:15			16:30		16:16	
15	05:24	19:13-19:51/38	05:58	19:24-19:40/16	06:35	07:11	07:54-08:16/22		06:53	07:56-08:32/36	07:27	08:03-08:45/42
	20:42	19:33-20:14/41	20:06		19:09	18:13			16:29		16:16	
16	05:25	19:13-19:52/39	05:59	19:28-19:35/7	06:36	07:13	07:53-08:18/25		06:55	07:55-08:33/38	07:28	08:04-08:46/42
	20:41	19:33-20:13/40	20:04		19:07	18:12			16:28		16:16	
17	05:26	19:13-19:53/40	06:00		06:37	07:14	07:52-08:18/26		06:56	07:56-08:34/38	07:29	08:05-08:46/41
	20:40	19:33-20:13/40	20:03		19:05	18:10			16:27		16:17	
18	05:27	19:13-19:53/40	06:01		06:38	07:15	07:50-08:18/28		06:57	07:55-08:34/39	07:29	08:05-08:46/41
	20:39	19:33-20:12/39	20:01		19:03	18:08			16:26		16:17	
19	05:28	19:13-19:54/41	06:03		06:39	07:17	07:50-08:20/30		06:59	07:54-08:35/41	07:30	08:06-08:47/41
	20:39	19:33-20:11/38	19:58		19:02	18:07			16:25		16:17	
20	05:29	19:12-19:54/42	06:04		06:41	07:18	07:49-08:19/30		07:00	07:55-08:36/41	07:31	08:06-08:47/41
	20:38	19:33-20:11/38	19:56		19:00	18:05			16:24		16:18	
21	05:30	19:12-19:54/42	06:05		06:42	07:19	07:49-08:19/30		07:01	07:54-08:36/42	07:31	08:07-08:48/41
	20:37	19:33-20:10/37	19:54		18:58	18:03			16:24		16:18	
22	05:31	19:12-19:55/43	06:06		06:43	07:21	07:49-08:20/31		07:03	07:55-08:37/42	07:32	08:07-08:48/41
	20:36	19:33-20:09/36	19:53		18:56	18:02			16:23		16:19	
23	05:32	19:12-19:55/43	06:07		06:44	07:22	07:48-08:19/31		07:04	07:54-08:38/44	07:32	08:08-08:49/41
	20:35	19:33-20:08/35	19:51		18:54	18:00			16:22		16:19	
24	05:33	19:12-19:57/45	06:09		06:45	07:23	07:49-08:20/31		07:05	07:54-08:38/44	07:33	08:08-08:49/41
	20:34	19:56-20:06/10	19:49		18:52	17:58			16:21		16:20	
25	05:34	19:12-19:57/45	06:10		06:47	07:25	07:49-08:19/30		07:06	07:55-08:39/44	07:33	08:09-08:50/41
	20:33	19:56-20:06/10	19:48		18:50	17:57			16:21		16:20	
26	05:35	19:11-19:57/46	06:11		06:48	07:26	07:49-08:18/29		07:08	07:55-08:39/44	07:34	08:09-08:50/41
	20:32	19:56-20:05/9	19:46		18:48	17:55			16:20		16:21	
27	05:36	19:11-19:58/47	06:12		06:49	07:27	07:50-08:18/28		07:09	07:55-08:39/44	07:34	08:09-08:51/42
	20:31	19:57-20:04/7	19:44		18:46	17:54			16:19		16:22	
28	05:37	19:11-19:58/47	06:13		06:50	07:29	07:51-08:17/26		07:10	07:56-08:40/44	07:34	08:09-08:51/42
	20:30	19:57-20:03/6	19:42		18:44	17:52			16:19		16:22	
29	05:38	19:11-19:57/46	06:14		06:51	07:30	07:53-08:16/23		07:11	07:56-08:40/44	07:34	08:10-08:51/41
	20:29	19:56-20:02/6	19:41		18:43	17:51			16:18		16:23	
30	05:39	19:11-19:57/46	06:16		06:53	07:31	07:54-08:15/21		07:13	07:56-08:40/44	07:35	08:11-08:53/42
	20:28	19:56-20:01/5	19:39		18:41	17:49			16:18		16:24	
31	05:40	19:11-19:57/46	06:17			07:33	07:56-08:14/18				07:35	08:11-08:53/42
	20:27	19:56-20:00/4	19:37			17:48					16:25	
Potential sun hours	472		436		376		341		288		275	
Sum of minutes with flicker	1831		528		0		492		874		1307	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 21

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 19 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (105)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35 16:26	07:17 17:04	15:40-16:27/47	06:36 17:43	15:37-16:32/55	06:39 19:24	07:16-08:03/47 17:51-18:33/42	05:48 20:00		05:14 20:35	05:46-06:37/51
2	07:35 16:27	07:16 17:06	15:39-16:28/49	06:34 17:45	15:38-16:31/53	06:37 19:25	07:16-08:03/47 17:53-18:31/38	05:46 20:01		05:14 20:35	05:46-06:37/51
3	07:35 16:28	07:15 17:07	15:39-16:30/51	06:32 17:46	15:39-16:29/50	06:35 19:26	07:15-08:02/47 17:55-18:29/34	05:45 20:03		05:13 20:36	05:46-06:38/52
4	07:35 16:29	07:14 17:08	15:38-16:31/53	06:31 17:48	15:40-16:28/48	06:34 19:27	07:16-08:03/47 17:59-18:27/28	05:43 20:04		05:13 20:37	05:45-06:38/53
5	07:35 16:30	07:13 17:10	15:37-16:31/54	06:29 17:49	15:41-16:26/45	06:32 19:29	07:16-08:02/46 18:51-19:06/15	05:42 20:05		05:12 20:38	05:46-06:39/53
6	07:35 16:31	07:11 17:11	15:37-16:32/55	06:27 17:50	15:44-16:25/41	06:30 19:30	07:16-08:01/45 18:48-19:07/19	05:40 20:06		05:12 20:39	05:46-06:39/53
7	07:35 16:32	07:10 17:13	15:36-16:34/58	06:25 17:52	15:45-16:23/38	06:28 19:31	07:16-08:00/44 18:45-19:08/23	05:39 20:07		05:11 20:39	05:45-06:39/54
8	07:34 16:33	07:09 17:14	15:35-16:34/59	07:24 18:53	16:47-17:20/33	06:26 19:32	07:16-07:58/42 18:43-19:09/26	05:38 20:09		05:11 20:40	05:45-06:39/54
9	07:34 16:34	07:07 17:16	15:35-16:35/60	07:22 18:54	16:50-17:17/27	06:24 19:34	07:17-07:58/41 18:41-19:10/29	05:36 20:10		05:11 20:41	05:46-06:40/54
10	07:34 16:35	07:06 17:17	15:34-16:35/61	07:20 18:56	16:54-17:13/19	06:23 19:35	07:18-07:57/39 18:41-19:12/31	05:35 20:11		05:11 20:41	05:46-06:41/55
11	07:33 16:36	07:05 17:18	15:34-16:36/62	07:18 18:57	17:53-18:31/38	06:21 19:36	07:18-07:55/37 18:40-19:13/33	05:34 20:12		05:10 20:42	05:46-06:41/55
12	07:33 16:37	07:03 17:20	15:33-16:36/63	07:16 18:58	17:53-18:33/40	06:19 19:38	07:19-07:53/34 18:38-19:14/36	05:33 20:13		05:10 20:43	05:46-06:40/54
13	07:33 16:39	07:02 17:21	15:33-16:37/64	07:14 18:59	17:51-18:34/43	06:17 19:39	07:20-07:51/31 18:37-19:14/37	05:31 20:15		05:10 20:43	05:46-06:41/55
14	07:32 16:40	07:00 17:23	15:33-16:36/63	07:13 19:01	17:50-18:34/44	06:15 19:40	07:22-07:50/28 18:37-19:15/38	05:30 20:16	06:02-06:17/15	05:10 20:44	05:46-06:41/55
15	07:32 16:41	06:59 17:24	15:33-16:37/64	07:11 19:02	17:49-18:35/46	06:14 19:41	07:23-07:47/24 18:37-19:14/37	05:29 20:17	05:59-06:21/22	05:10 20:44	05:46-06:41/55
16	07:31 16:42	06:57 17:26	15:32-16:37/65	07:09 19:03	17:48-18:35/47	06:12 19:43	07:26-07:43/17 18:36-19:14/38	05:28 20:18	05:57-06:23/26	05:10 20:45	05:46-06:42/56
17	07:31 16:44	06:56 17:27	15:33-16:37/64	07:07 19:05	17:47-18:35/48	06:10 19:44	07:31-07:39/8 18:36-19:14/38	05:27 20:19	05:56-06:25/29	05:10 20:45	05:46-06:42/56
18	07:30 16:45	06:54 17:28	15:32-16:37/65	07:05 19:06	07:37-07:51/14	06:09 19:45	18:36-19:14/38	05:26 20:20	05:54-06:26/32	05:10 20:45	05:46-06:42/56
19	07:29 16:46	06:53 17:30	15:33-16:38/65	07:03 19:07	07:34-07:56/22	06:07 19:46	18:36-19:13/37	05:25 20:21	05:53-06:27/34	05:10 20:46	05:48-06:43/55
20	07:29 16:48	06:51 17:31	15:33-16:37/64	07:01 19:08	07:31-07:58/27	06:05 19:48	18:36-19:13/37	05:24 20:23	05:52-06:28/36	05:10 20:46	05:48-06:43/55
21	07:28 16:49	06:49 17:33	15:33-16:36/63	07:00 19:10	07:28-07:59/31	06:03 19:49	18:36-19:12/36	05:23 20:24	05:51-06:29/38	05:10 20:46	05:48-06:43/55
22	07:27 16:50	06:48 17:34	15:34-16:37/63	06:58 19:11	07:26-08:01/35	06:02 19:50	18:36-19:11/35	05:22 20:25	05:50-06:30/40	05:11 20:47	05:48-06:43/55
23	07:26 16:52	06:46 17:35	15:34-16:36/62	06:56 19:12	07:24-08:02/38	06:00 19:51	18:37-19:11/34	05:21 20:26	05:50-06:32/42	05:11 20:47	05:48-06:43/55
24	07:25 16:53	06:44 17:37	15:34-16:35/61	06:54 19:14	07:23-08:02/39	05:59 19:53	18:37-19:09/32	05:20 20:27	05:49-06:33/44	05:11 20:47	05:48-06:44/56
25	07:24 16:54	06:43 17:38	15:35-16:35/60	06:52 19:15	07:21-08:03/42	05:57 19:54	18:39-19:09/30	05:19 20:28	05:48-06:33/45	05:11 20:47	05:48-06:44/56
26	07:24 16:56	06:41 17:39	15:35-16:34/59	06:50 19:16	07:20-08:03/43	05:55 19:55	18:39-19:07/28	05:18 20:29	05:47-06:33/46	05:12 20:47	05:48-06:44/56
27	07:23 16:57	06:39 17:41	15:35-16:33/58	06:48 19:17	07:20-08:04/44	05:54 19:56	18:40-19:05/25	05:18 20:30	05:48-06:35/47	05:12 20:47	05:49-06:44/55
28	07:22 16:58	06:38 17:42	15:36-16:32/56	06:47 19:19	07:19-08:04/45	05:52 19:58	18:42-19:04/22	05:17 20:31	05:47-06:35/48	05:13 20:47	05:49-06:44/55
29	07:21 17:00		15:44-16:22/38		07:18-08:04/46	05:51 19:59	18:44-19:02/18	05:16 20:32	05:46-06:35/49	05:13 20:47	05:50-06:45/55
30	07:20 17:01		15:43-16:24/41		07:17-08:04/47	05:49 20:00	18:46-18:59/13	05:15 20:33	05:47-06:36/49	05:13 20:47	05:50-06:45/55
31	07:18 17:03		15:41-16:25/44		07:17-08:04/47			05:15 20:34	05:46-06:36/50		
Potential sun hours		286		291		369		404		459	
Sum of minutes with flicker		255		1668		2112		1581		692	
										1635	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 22

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 19 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (105)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14 05:50-06:45/55 20:47	05:42 20:25		06:18 07:17-07:54/37 19:35 18:39-19:12/33		06:54 17:31-18:12/41 18:39 18:12-18:14/2		06:34 15:04-16:04/60 16:46		07:14 16:17	
2	05:15 05:50-06:45/55 20:47	05:43 20:24		06:19 07:16-07:55/39 19:33 18:39-19:10/31		06:55 17:31-18:11/40 18:37		06:35 15:05-16:04/59 16:45		07:15 16:17	
3	05:15 05:51-06:45/54 20:47	05:44 20:23		06:20 07:14-07:55/41 19:32 18:39-19:08/29		06:56 16:35-16:49/14 18:35 17:33-18:09/36		06:37 15:05-16:03/58 16:43		07:16 16:17	
4	05:16 05:51-06:45/54 20:47	05:45 20:22		06:22 07:14-07:56/42 19:30 18:40-19:06/26		06:58 16:29-16:53/24 18:33 17:34-18:07/33		06:38 15:05-16:02/57 16:42		07:17 16:16	
5	05:16 05:51-06:45/54 20:46	05:46 20:20		06:23 07:13-07:57/44 19:28 18:42-19:05/23		06:59 16:26-16:56/30 18:31 17:35-18:04/29		06:40 15:06-16:02/56 16:41		07:18 16:16	
6	05:17 05:52-06:46/54 20:46	05:47 20:19		06:24 07:12-07:57/45 19:26 18:05-18:16/11	18:44-19:03/19	07:00 16:22-16:58/36 18:30 17:37-18:02/25		06:41 15:07-16:01/54 16:39		07:19 16:16	
7	05:18 05:52-06:45/53 20:46	05:48 20:18		06:25 07:11-07:57/46 19:24 18:01-18:19/18	18:46-19:01/15	07:01 16:21-17:00/39 18:28 17:40-17:59/19		06:42 15:08-16:01/53 16:38		07:20 16:16	
8	05:18 05:52-06:45/53 20:45	05:50 20:16		06:26 07:10-07:57/47 19:22 17:53-18:21/28		07:03 16:18-17:01/43 18:26 17:45-17:53/8		06:44 15:09-15:59/50 16:37		07:21 16:16	
9	05:19 05:53-06:45/52 20:45	05:51 20:15		06:28 07:10-07:56/46 19:20 17:49-18:23/34		07:04 16:16-17:02/46 18:24		06:45 15:10-15:59/49 16:36		07:22 16:16	
10	05:20 05:53-06:45/52 20:44	05:52 20:13		06:29 07:09-07:56/47 19:19 17:46-18:24/38		07:05 16:15-17:04/49 18:22		06:46 15:11-15:57/46 16:35		07:23 16:16	
11	05:21 05:53-06:45/52 20:44	05:53 20:12		06:30 07:09-07:57/48 19:17 17:44-18:25/41		07:06 16:13-17:04/51 18:20		06:48 15:13-15:57/44 16:33		07:24 16:16	
12	05:22 05:54-06:45/51 20:43	05:54 18:58-19:03/5 20:10		06:31 07:09-07:56/47 19:15 17:42-18:26/44		07:08 16:11-17:05/54 18:19		06:49 15:14-15:55/41 16:32		07:25 16:16	
13	05:22 05:55-06:45/50 20:43	05:56 18:54-19:08/14 20:09		06:32 07:09-07:55/46 19:13 17:40-18:27/47		07:09 16:09-17:05/56 18:17		06:51 15:16-15:54/38 16:31		07:26 16:16	
14	05:23 05:55-06:45/50 20:42	05:57 18:51-19:11/20 20:07		06:33 07:08-07:55/47 19:11 17:39-18:27/48		07:10 16:09-17:06/57 18:15		06:52 15:17-15:52/35 16:30		07:27 16:16	
15	05:24 05:56-06:45/49 20:42	05:58 18:49-19:12/23 20:06		06:35 07:08-07:54/46 19:09 17:37-18:27/50		07:11 16:07-17:06/59 18:13		06:53 15:20-15:51/31 16:29		07:27 16:16	
16	05:25 05:56-06:43/47 20:41	05:59 18:47-19:13/26 20:04		06:36 07:08-07:53/45 19:07 17:36-18:27/51		07:13 16:06-17:06/60 18:12		06:55 15:22-15:49/27 16:28		07:28 16:16	
17	05:26 05:56-06:43/47 20:40	06:00 18:46-19:14/28 20:03		06:37 07:08-07:52/44 19:05 17:34-18:27/53		07:14 16:06-17:07/61 18:10		06:56 15:25-15:47/22 16:27		07:29 16:17	
18	05:27 05:57-06:43/46 20:39	06:01 18:44-19:15/31 20:01		06:38 07:10-07:51/41 19:03 17:34-18:27/53		07:15 16:05-17:07/62 18:08		06:57 15:28-15:44/16 16:26		07:29 16:17	
19	05:28 05:58-06:42/44 20:39	06:03 18:43-19:15/32 19:58		06:39 07:10-07:50/40 19:02 17:33-18:27/54		07:17 16:05-17:08/63 18:07		06:59 15:28-15:44/16 16:25		07:30 16:17	
20	05:29 05:59-06:42/43 20:38	06:04 18:42-19:16/34 19:56		06:41 07:11-07:48/37 19:00 17:32-18:27/55		07:18 16:04-17:07/63 18:05		07:00 15:28-15:44/16 16:24		07:31 16:18	
21	05:30 06:00-06:41/41 20:37	06:05 18:42-19:17/35 19:54		06:42 07:11-07:46/35 18:58 17:31-18:26/55		07:19 16:03-17:07/64 18:03		07:01 15:28-15:44/16 16:24		07:31 16:18	
22	05:31 06:01-06:40/39 20:36	06:06 18:41-19:17/36 19:53		06:43 07:12-07:44/32 18:56 17:31-18:25/54		07:21 16:03-17:08/65 18:02		07:03 15:28-15:44/16 16:23		07:32 16:19	
23	05:32 06:02-06:40/38 20:35	06:07 18:40-19:17/37 19:51		06:44 07:14-07:42/28 18:54 17:30-18:24/54		07:22 16:03-17:07/64 18:00		07:04 15:28-15:44/16 16:22		07:32 16:19	
24	05:33 06:03-06:39/36 20:34	06:09 18:39-19:17/38 19:49		06:45 07:16-07:40/24 18:52 17:30-18:24/54		07:23 16:03-17:08/65 17:58		07:05 15:28-15:44/16 16:21		07:33 16:20	
25	05:34 06:04-06:37/33 20:33	06:10 18:39-19:17/38 19:48		06:47 07:19-07:36/17 18:50 17:30-18:23/53		07:25 16:02-17:07/65 17:57		07:06 15:28-15:44/16 16:21		07:33 16:20	
26	05:35 06:05-06:36/31 20:32	06:11 07:32-07:42/10 19:46 18:38-19:16/38		06:48 17:30-18:18/48 18:48 18:18-18:22/4		07:26 16:02-17:06/64 17:55		07:08 15:28-15:44/16 16:20		07:33 16:21	
27	05:36 06:07-06:34/27 20:31	06:12 07:27-07:46/19 19:44 18:38-19:16/38		06:49 17:29-18:17/48 18:46 18:17-18:21/4		07:27 16:03-17:07/64 17:54		07:09 15:28-15:44/16 16:19		07:34 16:22	
28	05:37 06:09-06:33/24 20:30	06:13 07:25-07:49/24 19:42 18:39-19:16/37		06:50 17:29-18:15/46 18:44 18:15-18:19/4		07:29 16:02-17:06/64 17:52		07:10 15:28-15:44/16 16:19		07:34 16:22	
29	05:38 06:11-06:30/19 20:29	06:14 07:23-07:51/28 19:41 18:38-19:15/37		06:51 17:30-18:15/45 18:43 18:15-18:18/3		07:30 16:03-17:06/63 17:51		07:11 15:28-15:44/16 16:18		07:34 16:23	
30	05:39 06:15-06:26/11 20:28	06:16 07:21-07:52/31 19:39 18:38-19:15/37		06:53 17:31-18:14/43 18:41 18:14-18:16/2		07:31 16:03-17:05/62 17:49		07:12 15:28-15:44/16 16:18		07:35 16:24	
31	05:40 20:27	06:17 07:19-07:53/34 19:37 18:38-19:14/36				07:33 16:04-17:05/61 17:48				07:35 16:25	
Potential sun hours		472		376		341		288		275	
Sum of minutes with flicker		1314	766	2329		1801		796		0	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 23

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 2 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (88)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	08:10-08:51/41	07:18	08:21-08:35/14	06:36	06:39			05:48	19:21-19:37/16	05:14	05:38-05:59/21
	16:26	08:56-09:15/19	17:04		17:44	19:24			20:00		20:35	05:59-06:04/5
2	07:35	08:10-08:52/42	07:16	08:23-08:32/9	06:34	06:37			05:46	19:21-19:38/17	05:14	05:37-05:59/22
	16:27	08:57-09:15/18	17:06		17:45	19:25			20:02		20:36	05:59-06:04/5
3	07:35	08:10-08:52/42	07:15		06:33	06:35			05:45	19:23-19:39/16	05:13	05:37-06:00/23
	16:28	08:58-09:15/17	17:07		17:46	19:26			20:03		20:37	06:00-06:05/5
4	07:35	08:10-08:53/43	07:14		06:31	06:34			05:43	19:25-19:41/16	05:13	05:36-05:59/23
	16:29	08:59-09:15/16	17:09		17:48	19:28			20:04		20:37	05:59-06:04/5
5	07:35	08:10-08:54/44	07:13		06:29	06:32			05:42	19:28-19:41/13	05:12	05:36-06:00/24
	16:30	09:01-09:14/13	17:10		17:49	19:29			20:05		20:38	06:00-06:05/5
6	07:35	08:09-08:53/44	07:11		06:27	06:30			05:40	19:31-19:43/12	05:12	05:36-06:01/25
	16:31	09:02-09:12/10	17:11		17:50	19:30			20:06		20:39	06:01-06:05/4
7	07:35	08:09-08:54/45	07:10		06:26	06:28			05:39	19:31-19:44/13	05:12	05:35-06:00/25
	16:32	09:05-09:11/6	17:13		17:52	19:31			20:08		20:40	06:00-06:05/5
8	07:35	08:10-08:55/45	07:09		07:24	06:26			05:38	19:31-19:44/13	05:11	05:35-06:01/26
	16:33		17:14		18:53	19:33			20:09		20:40	06:01-06:05/4
9	07:34	08:09-08:54/45	07:08		07:22	06:25			05:36	19:31-19:46/15	05:11	05:35-06:01/26
	16:34		17:16		18:54	19:34			20:10		20:41	06:01-06:05/4
10	07:34	08:09-08:55/46	07:06		07:20	06:23			05:35	19:32-19:47/15	05:11	05:35-06:02/27
	16:35		17:17		18:56	19:35			20:11		20:42	06:02-06:06/4
11	07:34	08:10-08:56/46	07:05		07:18	06:21			05:34	19:32-19:48/16	05:10	05:35-06:02/27
	16:36		17:19		18:57	19:36			20:13		20:42	06:02-06:06/4
12	07:33	08:09-08:55/46	07:03		07:16	06:19			05:33	19:32-19:49/17	05:10	05:34-06:01/27
	16:37		17:20		18:58	19:38			20:14		20:43	06:01-06:05/4
13	07:33	08:10-08:56/46	07:02		07:15	06:17			05:31	19:33-19:50/17	05:10	05:35-06:02/27
	16:39		17:21		19:00	19:39			20:15		20:43	06:02-06:05/3
14	07:32	08:09-08:56/47	07:00		07:13	06:16			05:30	19:34-19:51/17	05:10	05:35-06:02/27
	16:40		17:23		19:01	19:40			20:16		20:44	06:02-06:06/4
15	07:32	08:09-08:55/46	06:59		07:11	06:14			05:29	19:35-19:52/17	05:10	05:35-06:02/27
	16:41		17:24		19:02	19:41			20:17		20:44	06:02-06:06/4
16	07:31	08:10-08:56/46	06:57		07:09	06:12	19:17-19:19/2		05:28	19:36-19:50/14	05:10	05:35-06:02/27
	16:42		17:26		19:03	19:43			20:18		20:45	06:02-06:06/4
17	07:31	08:10-08:55/45	06:56		07:07	06:10	19:17-19:21/4		05:27	05:49-05:53/4	05:10	05:36-06:03/27
	16:44		17:27		19:05	19:44			20:19	19:38-19:49/11	20:45	06:03-06:06/3
18	07:30	08:10-08:55/45	06:54		07:05	06:09	19:16-19:21/5		05:26	05:48-05:56/8	05:10	05:37-06:04/27
	16:45		17:28		19:06	19:45			20:21	19:41-19:46/5	20:46	06:04-06:07/3
19	07:30	08:11-08:55/44	06:53		07:04	06:07	19:15-19:22/7		05:25	05:47-05:57/10	05:10	05:37-06:04/27
	16:46		17:30		19:07	19:47			20:22		20:46	06:04-06:07/3
20	07:29	08:11-08:54/43	06:51		07:02	06:05	19:15-19:24/9		05:24	05:46-05:58/12	05:10	05:37-06:04/27
	16:48		17:31		19:09	19:48			20:23		20:46	06:04-06:07/3
21	07:28	08:11-08:54/43	06:50		07:00	06:04	19:14-19:25/11		05:23	05:45-05:59/14	05:10	05:37-06:04/27
	16:49		17:33		19:10	19:49			20:24		20:47	06:04-06:07/3
22	07:27	08:11-08:52/41	06:48		06:58	06:02	19:14-19:26/12		05:22	05:45-05:51/6	05:11	05:37-06:04/27
	16:50		17:34		19:11	19:50			20:25	05:51-06:01/10	20:47	06:04-06:07/3
23	07:26	08:12-08:51/39	06:46		06:56	06:00	19:14-19:28/14		05:21	05:44-05:52/8	05:11	05:37-06:04/27
	16:52		17:35		19:12	19:52			20:26	05:52-06:01/9	20:47	06:04-06:07/3
24	07:26	08:12-08:49/37	06:45		06:54	05:59	19:14-19:28/14		05:20	05:43-05:54/11	05:11	05:38-06:05/27
	16:53		17:37		19:14	19:53			20:27	05:54-06:02/8	20:47	06:05-06:08/3
25	07:25	08:13-08:40/27	06:43		06:52	05:57	19:15-19:30/15		05:19	05:42-05:54/12	05:11	05:38-06:05/27
	16:54	08:43-08:44/1	17:38		19:15	19:54			20:28	05:54-06:02/8	20:47	06:05-06:08/3
26	07:24	08:13-08:40/27	06:41		06:50	05:55	19:15-19:31/16		05:18	05:41-05:55/14	05:12	05:37-06:04/27
	16:56		17:40		19:16	19:55			20:29	05:55-06:02/7	20:47	06:04-06:08/4
27	07:23	08:14-08:40/26	06:40		06:49	05:54	19:17-19:32/15		05:18	05:41-05:56/15	05:12	05:38-06:05/27
	16:57		17:41		19:18	19:57			20:30	05:56-06:03/7	20:48	06:05-06:09/4
28	07:22	08:15-08:39/24	06:38		06:47	05:52	19:18-19:33/15		05:17	05:40-05:57/17	05:13	05:38-06:05/27
	16:59		17:42		19:19	19:58			20:31	05:57-06:03/6	20:48	06:05-06:09/4
29	07:21	08:16-08:39/23			06:45	05:51	19:20-19:35/15		05:16	05:39-05:57/18	05:13	05:39-06:06/27
	17:00				19:20	19:59			20:32	05:57-06:03/6	20:48	06:06-06:09/3
30	07:20	08:17-08:38/21			06:43	05:49	19:20-19:35/15		05:15	05:39-05:58/19	05:14	05:39-06:06/27
	17:01				19:21	20:00			20:33	05:58-06:04/6	20:47	06:06-06:09/3
31	07:19	08:19-08:37/18			06:41				05:15	05:38-05:58/20		
	17:03				19:23				20:34	05:58-06:04/6		
Potential sun hours	286		291		369		404		459		466	
Sum of minutes with flicker	1317		23		0		169		521		896	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 24

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 2 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (88)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November		December	
1	05:14	05:39-06:06/27	05:42	19:42-19:59/17	06:18	06:54	06:34			07:14	07:52-08:38/46
	20:47	06:06-06:10/4	20:26		19:35	18:39	16:46			16:18	
2	05:15	05:39-06:06/27	05:43	19:42-19:58/16	06:19	06:55	06:36			07:15	07:52-08:38/46
	20:47	06:06-06:10/4	20:24		19:34	18:37	16:45			16:17	
3	05:15	05:40-06:06/26	05:44	19:41-19:56/15	06:21	06:57	06:37			07:16	07:53-08:38/45
	20:47	06:06-06:10/4	20:23		19:32	18:35	16:44			16:17	
4	05:16	05:40-06:06/26	05:45	19:41-19:56/15	06:22	06:58	06:38			07:17	07:54-08:39/45
	20:47	06:06-06:10/4	20:22		19:30	18:33	16:42			16:17	
5	05:16	05:41-06:07/26	05:46	19:41-19:55/14	06:23	06:59	06:40			07:18	07:54-08:39/45
	20:47	06:07-06:11/4	20:20		19:28	18:32	16:41			16:16	08:50-08:55/5
6	05:17	05:42-06:07/25	05:47	19:41-19:53/12	06:24	07:00	06:41			07:19	07:55-08:39/44
	20:46	06:07-06:11/4	20:19		19:26	18:30	16:40			16:16	08:48-08:58/10
7	05:18	05:42-06:06/24	05:49	19:41-19:52/11	06:25	07:02	06:43			07:20	07:56-08:40/44
	20:46	06:06-06:11/5	20:18		19:24	18:28	16:38			16:16	08:47-09:00/13
8	05:18	05:43-06:07/24	05:50	19:36-19:50/14	06:26	07:03	06:44			07:21	07:57-08:40/43
	20:46	06:07-06:12/5	20:16		19:22	18:26	16:37			16:16	08:47-09:01/14
9	05:19	05:44-06:07/23	05:51	19:33-19:49/16	06:28	07:04	06:45	07:54-08:03/9		07:22	07:58-08:40/42
	20:45	06:07-06:12/5	20:15		19:21	18:24	16:36			16:16	08:46-09:03/17
10	05:20	05:45-06:07/22	05:52	19:31-19:47/16	06:29	07:05	06:47	07:52-08:06/14		07:23	07:59-08:41/42
	20:45	06:07-06:12/5	20:14		19:19	18:22	16:35			16:16	08:46-09:04/18
11	05:21	05:45-06:07/22	05:53	19:30-19:46/16	06:30	07:07	06:48	07:50-08:08/18		07:24	08:00-08:41/41
	20:44	06:07-06:12/5	20:12		19:17	18:21	16:33			16:16	08:46-09:05/19
12	05:22	05:46-06:07/21	05:54	19:28-19:44/16	06:31	07:08	06:49	07:49-08:10/21		07:25	08:01-08:42/41
	20:44	06:07-06:12/5	20:11		19:15	18:19	16:32			16:16	08:46-09:06/20
13	05:22	05:47-06:07/20	05:56	19:28-19:44/16	06:32	07:09	06:51	07:48-08:11/23		07:26	08:02-08:43/41
	20:43	06:07-06:12/5	20:09		19:13	18:17	16:31			16:16	08:46-09:07/21
14	05:23	05:48-06:07/19	05:57	19:27-19:42/15	06:34	07:10	06:52	07:47-08:11/24		07:27	08:04-08:43/39
	20:42	06:07-06:13/6	20:08		19:11	18:15	16:30			16:16	08:46-09:08/22
15	05:24	05:49-06:06/17	05:58	19:25-19:40/15	06:35	07:12	06:54	07:47-08:13/26		07:28	08:04-08:43/39
	20:42	06:06-06:13/7	20:06		19:09	18:14	16:29			16:16	08:46-09:08/22
16	05:25	05:50-06:06/16	05:59	19:23-19:39/16	06:36	07:13	06:55	07:46-08:13/27		07:28	08:05-08:43/38
	20:41	06:06-06:13/7	20:04		19:07	18:12	16:28			16:16	08:46-09:09/23
17	05:26	05:50-06:05/15	06:00	19:22-19:37/15	06:37	07:14	06:56	07:46-08:14/28		07:29	08:06-08:44/38
	20:40	06:05-06:12/7	20:03		19:05	18:10	16:27	08:17-08:19/2		16:17	08:47-09:10/23
18	05:27	05:51-06:04/13	06:02	19:21-19:35/14	06:38	07:16	06:58	07:46-08:23/37		07:30	08:08-08:45/37
	20:40	06:04-06:12/8	20:01		19:04	18:08	16:26			16:17	08:47-09:11/24
19	05:28	05:52-06:04/12	06:03	19:20-19:34/14	06:40	07:17	06:59	07:47-08:26/39		07:30	08:08-08:45/37
	20:39	06:04-06:11/7	20:00		19:02	18:07	16:25			16:17	08:47-09:11/24
20	05:29	05:53-06:03/10	06:04	19:20-19:33/13	06:41	07:18	07:00	07:46-08:27/41		07:31	08:09-08:46/37
	20:38	06:03-06:11/8	19:56		19:00	18:05	16:24			16:18	08:48-09:12/24
21	05:30	05:54-06:01/7	06:05	19:19-19:31/12	06:42	07:20	07:02	07:46-08:29/43		07:32	08:09-08:46/37
	20:37	06:01-06:11/10	19:55		18:58	18:03	16:24			16:18	08:48-09:12/24
22	05:31	05:55-05:59/4	06:06	19:19-19:30/11	06:43	07:21	07:03	07:47-08:30/43		07:32	08:10-08:47/37
	20:36	05:59-06:10/11	19:53		18:56	18:02	16:23			16:19	08:49-09:13/24
23	05:32	05:56-06:09/13	06:07	19:19-19:28/9	06:44	07:22	07:04	07:47-08:31/44		07:33	08:10-08:47/37
	20:35		19:51		18:54	18:00	16:22			16:19	08:49-09:13/24
24	05:33	05:57-06:08/11	06:09	19:18-19:26/8	06:46	07:23	07:05	07:48-08:33/45		07:33	08:10-08:47/37
	20:34		19:50		18:52	17:58	16:21			16:20	08:49-09:13/24
25	05:34	05:58-06:07/9	06:10	19:19-19:24/5	06:47	07:25	07:07	07:48-08:33/45		07:33	08:11-08:48/37
	20:33		19:48		18:50	17:57	16:21			16:20	08:50-09:14/24
26	05:35	05:59-06:05/6	06:11	19:19-19:22/3	06:48	07:26	07:08	07:48-08:34/46		07:34	08:11-08:48/37
	20:32	19:50-19:58/8	19:46		18:48	17:55	16:20			16:21	08:51-09:14/23
27	05:36	06:00-06:01/1	06:12	19:19-19:20/1	06:49	07:28	07:09	07:49-08:35/46		07:34	08:10-08:48/38
	20:31	19:48-20:00/12	19:44		18:46	17:54	16:19			16:22	08:51-09:14/23
28	05:37	19:46-20:02/16	06:13		06:50	07:29	07:10	07:50-08:36/46		07:34	08:11-08:50/39
	20:30		19:43		18:45	17:52	16:19			16:22	08:53-09:15/22
29	05:38	19:45-20:02/17	06:15		06:52	07:30	07:12	07:50-08:36/46		07:35	08:11-08:50/39
	20:29		19:41		18:43	17:51	16:18			16:23	08:53-09:15/22
30	05:39	19:44-20:01/17	06:16		06:53	07:32	07:13	07:50-08:36/46		07:35	08:11-08:50/39
	20:28		19:39		18:41	17:49	16:18			16:24	08:54-09:15/21
31	05:41	19:43-20:00/17	06:17			07:33				07:35	08:10-08:51/41
	20:27		19:37			17:48				16:25	08:55-09:15/20
Potential sun hours	472		436		376	341	288			274	
Sum of minutes with flicker		683		345	0	0	759			1798	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 25

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 20 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (106)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	07:35 08:01-08:24/23 16:26 08:26-08:42/16	07:17 08:16-08:27/11 17:04	06:36 07:00-07:34/34 17:43 16:51-17:19/28	06:39 06:59-07:56/57 19:24	05:48 06:09-06:40/31 20:00 06:40-06:51/11	05:14 06:09-06:34/25 20:34 19:36-20:09/33
2	07:35 08:01-08:25/24 16:27 08:27-08:42/15	07:16 17:06	06:34 06:59-07:34/35 17:45 16:49-17:20/31	06:37 06:57-07:55/58 19:25	05:46 06:07-06:40/33 20:01 06:40-06:51/11	05:14 06:09-06:33/24 20:35 19:36-20:09/33
3	07:35 08:00-08:24/24 16:28 08:27-08:41/14	07:15 17:07	06:32 06:59-07:33/34 17:46 16:48-17:21/33	06:35 06:55-07:53/58 19:26	05:45 06:06-06:41/35 20:03 06:41-06:51/10	05:13 06:11-06:33/22 20:36 19:37-20:10/33
4	07:35 08:00-08:25/25 16:29 08:28-08:41/13	07:14 17:08	06:31 06:59-07:31/32 17:48 16:46-17:22/36	06:34 06:54-07:52/58 19:27	05:43 06:05-06:42/37 20:04 06:42-06:51/9	05:13 06:11-06:32/21 20:37 19:36-20:10/34
5	07:35 08:00-08:26/26 16:30 08:30-08:41/11	07:13 17:10	06:29 07:00-07:31/31 17:49 16:45-17:22/37	06:32 06:53-07:50/57 19:29	05:42 06:03-06:42/39 20:05 06:42-06:50/8	05:12 06:13-06:31/18 20:38 19:37-20:11/34
6	07:35 08:01-08:27/26 16:31 08:31-08:40/9	07:11 17:11	06:27 07:00-07:29/29 17:50 16:45-17:24/39	06:30 06:52-07:48/56 19:30	05:40 06:02-06:42/40 20:06 06:42-06:50/8	05:12 06:14-06:31/17 20:39 19:37-20:12/35
7	07:34 08:01-08:28/27 16:32 08:34-08:39/5	07:10 17:13	06:25 07:00-07:27/27 17:52 16:44-17:24/40	06:28 06:51-07:44/53 19:31	05:39 06:01-06:43/42 20:07 06:43-06:50/7	05:11 06:15-06:29/14 20:39 19:37-20:12/35
8	07:34 08:00-08:28/28 16:33	07:09 17:14	07:24 08:01-08:25/24 18:53 17:43-18:24/41	06:26 06:50-07:40/50 19:32	05:38 06:00-06:42/42 20:09 06:42-06:49/7	05:11 06:16-06:29/13 20:40 19:38-20:13/35
9	07:34 08:01-08:29/28 16:34	07:07 17:16	07:22 08:02-08:20/18 17:43-18:23/40 18:54 08:20-08:23/3	06:24 06:51-07:32/41 19:34	05:36 06:00-06:43/43 20:10 06:43-06:49/6	05:11 06:18-06:28/10 20:41 19:38-20:14/36
10	07:34 08:01-08:30/29 16:35	07:06 17:17	07:20 08:03-08:21/18 18:56 17:42-18:23/41	06:23 06:50-07:32/42 19:35	05:35 06:00-06:43/43 20:11 06:43-06:49/6	05:11 06:20-06:26/6 20:41 19:39-20:15/36
11	07:33 08:01-08:30/29 16:36	07:05 17:18	07:18 08:06-08:19/13 18:57 17:42-18:23/41	06:21 06:50-07:31/41 19:36	05:34 06:00-06:43/43 20:12 06:43-06:48/5	05:10 19:38-20:15/37 20:42
12	07:33 08:02-08:32/30 16:37	07:03 17:20	07:16 17:43-18:23/40 18:58	06:19 06:50-07:30/40 19:38	05:33 05:59-06:42/43 20:13 06:42-06:47/5	05:10 19:39-20:15/36 20:43
13	07:33 08:01-08:32/31 16:39	07:02 17:21	07:14 07:39-07:49/10 18:59 17:42-18:23/41	06:17 06:49-07:29/40 19:39	05:31 05:59-06:42/43 20:15 06:42-06:47/5	05:10 19:39-20:16/37 20:43
14	07:32 08:02-08:33/31 16:40	07:00 17:23	07:13 07:35-07:53/18 19:01 17:42-18:22/40	06:15 06:50-07:29/39 19:40	05:30 05:59-06:42/43 20:16 06:42-06:46/4	05:10 19:39-20:16/37 20:44
15	07:32 08:02-08:33/31 16:41	06:59 17:24	07:11 07:31-07:55/24 19:02 17:43-18:21/38	06:14 06:50-07:28/38 19:41	05:29 05:59-06:42/43 19:46-19:51/5 20:17 06:42-06:45/3	05:10 19:40-20:17/37 20:44
16	07:31 08:02-08:33/31 16:42	06:57 17:26	07:09 07:29-07:57/28 19:03 17:43-18:20/37	06:12 06:51-07:27/36 19:43	05:28 05:59-06:42/43 19:43-19:53/10 20:18 06:42-06:44/2	05:10 19:40-20:17/37 20:45
17	07:31 08:03-08:34/31 16:44	06:56 07:20-07:21/1 17:27	07:07 07:27-07:58/31 19:05 17:43-18:19/36	06:10 06:52-07:26/34 19:44	05:27 06:00-06:42/42 19:41-19:54/13 20:19 06:42-06:44/2	05:10 19:40-20:17/37 20:45
18	07:30 08:03-08:34/31 16:45	06:54 07:15-07:27/12 17:28	07:05 07:25-07:59/34 19:06 17:44-18:17/33	06:09 06:30-06:35/5 19:45	05:26 06:00-06:42/42 19:40-19:55/15 20:20 06:42-06:43/1	05:10 19:40-20:18/38 20:45
19	07:29 08:03-08:34/31 16:46	06:53 07:14-07:30/16 17:30	07:03 07:25-08:00/35 19:07 17:45-18:15/30	06:07 06:27-06:40/13 19:46	05:25 06:00-06:41/41 20:21 19:39-19:56/17	05:10 19:40-20:18/38 20:46
20	07:29 08:04-08:35/31 16:48	06:51 07:12-07:31/19 17:31	07:01 07:23-08:01/38 19:08 17:47-18:15/28	06:05 06:26-06:43/17 19:48	05:24 06:01-06:40/39 20:23 19:38-19:57/19	05:10 19:41-20:19/38 20:46
21	07:28 08:04-08:35/31 16:49	06:49 07:10-07:32/22 17:33	07:00 07:22-08:01/39 19:10 17:49-18:12/23	06:03 06:24-06:45/21 19:49	05:23 06:01-06:39/38 20:24 19:37-19:58/21	05:10 19:41-20:19/38 20:46
22	07:27 08:05-08:35/30 16:50	06:48 07:09-07:33/24 17:34	06:58 07:21-08:01/40 19:11 17:51-18:09/18	06:02 06:22-06:46/24 19:50	05:22 06:01-06:39/38 20:25 19:37-19:59/22	05:11 19:41-20:19/38 20:47
23	07:26 08:05-08:35/30 16:52	06:46 07:07-07:34/27 17:35	06:56 07:20-08:01/41 19:12 17:55-18:05/10	06:00 06:21-06:47/26 19:51	05:21 06:03-06:39/36 20:26 19:37-20:01/24	05:11 19:41-20:19/38 20:47
24	07:25 08:06-08:35/29 16:53	06:44 07:05-07:34/29 17:37	06:54 07:20-08:01/41 19:14	05:59 06:19-06:48/29 19:53	05:20 06:03-06:39/36 20:27 19:37-20:01/24	05:11 19:42-20:20/38 20:47
25	07:24 08:06-08:35/29 16:54	06:43 07:04-07:35/31 17:38	06:52 07:19-08:01/42 19:15	05:57 06:18-06:30/12 19:54	05:19 06:03-06:38/35 20:28 19:36-20:02/26	05:11 19:42-20:19/37 20:47
26	07:24 08:07-08:34/27 16:56	06:41 07:02-07:35/33 17:39	06:50 07:19-08:00/41 19:16	05:55 06:16-06:33/17 19:55	05:18 06:04-06:37/33 20:29 19:36-20:03/27	05:12 19:42-20:19/37 20:47
27	07:23 08:08-08:34/26 16:57	06:39 07:00-07:34/34 17:41	06:48 07:11-08:01/50 19:17	05:54 06:15-06:35/20 19:56	05:18 06:05-06:37/32 20:30 19:36-20:04/28	05:12 19:43-20:20/37 20:47
28	07:22 08:09-08:33/24 16:58	06:38 06:59-07:34/35 17:42	06:46 07:07-08:00/53 19:19	05:52 06:13-06:36/23 19:58	05:17 06:05-06:36/31 20:31 19:36-20:05/29	05:13 19:42-20:19/37 20:47
29	07:21 08:10-08:33/23 17:00	17:00	06:45 07:05-07:59/54 19:20	05:51 06:12-06:38/26 19:59	05:16 06:06-06:36/30 20:32 19:35-20:05/30	05:13 19:43-20:20/37 20:47
30	07:19 08:12-08:32/20 17:01	17:01	06:43 07:03-07:58/55 19:21	05:49 06:10-06:39/29 20:00	05:15 06:07-06:36/29 20:33 19:36-20:07/31	05:13 19:43-20:19/36 20:47
31	07:18 08:14-08:30/16 17:03	17:03	06:41 07:01-07:57/56 19:22	19:22	05:15 06:08-06:35/27 20:34 19:36-20:07/31	20:47
Potential sun hours	286	291	369	404	459	466
Sum of minutes with flicker	935	352	1809	1293	1654	1259

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 26

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 20 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (106)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14 19:43-20:20/37 20:47	05:42 06:09-06:53/44 20:25 06:53-06:58/5	06:18 06:49-07:30/41 19:35	06:54 17:21-18:02/41 18:39	06:34 16:46	07:14 07:43-08:13/30 16:17					
2	05:15 06:26-06:29/3 20:47 19:43-20:19/36	05:43 06:09-06:53/44 20:24 06:53-06:58/5	06:19 06:48-07:30/42 19:33	06:55 07:45-07:55/10 18:37 17:21-18:01/40	06:35 16:45	07:15 07:43-08:12/29 16:17					
3	05:15 06:24-06:32/8 20:47 19:43-20:19/36	05:44 06:09-06:52/43 20:23 06:52-06:59/7	06:20 06:48-07:29/41 19:32	06:56 07:43-07:59/16 18:35 17:21-18:02/41	06:37 16:43	07:16 07:45-08:13/28 16:17					
4	05:16 06:22-06:33/11 20:47 19:43-20:19/36	05:45 06:10-06:53/43 20:22 06:53-07:00/7	06:22 06:48-07:38/50 19:30	06:58 07:40-08:00/20 18:33 17:20-18:01/41	06:38 16:42	07:17 07:45-08:13/28 16:16					
5	05:16 06:21-06:35/14 20:46 19:43-20:19/36	05:46 06:10-06:53/43 20:20 06:53-07:00/7	06:23 06:48-07:41/53 19:28	06:59 07:38-08:00/22 17:20-18:00/40 18:31 08:00-08:01/1	06:40 16:41	07:18 07:46-08:13/27 16:16 08:19-08:24/5					
6	05:17 06:21-06:37/16 20:46 19:44-20:19/35	05:47 06:11-06:52/41 20:19 06:52-07:00/8	06:24 06:48-07:44/56 19:26	07:00 07:36-08:02/26 18:30 17:20-18:00/40	06:41 16:39	07:19 07:47-08:13/26 16:16 08:18-08:26/8					
7	05:18 06:19-06:37/18 20:46 19:43-20:18/35	05:48 06:12-06:52/40 20:17 06:52-07:00/8	06:25 06:48-07:45/57 19:24	07:01 07:36-08:04/28 18:28 17:20-18:00/40	06:42 16:38	07:20 07:47-08:13/26 16:16 08:17-08:28/11					
8	05:18 06:19-06:39/20 20:45 19:44-20:18/34	05:50 06:13-06:51/38 20:16 06:51-07:00/9	06:26 06:48-07:46/58 19:22	07:03 07:35-08:05/30 18:26 17:20-17:58/38	06:44 16:37	07:21 07:48-08:13/25 16:16 08:16-08:29/13					
9	05:19 06:19-06:40/21 20:45 19:44-20:18/34	05:51 06:14-06:50/36 20:15 06:50-07:00/10	06:28 06:49-07:47/58 19:20	07:04 07:34-08:06/32 18:24 17:21-17:57/36	06:45 07:51-07:54/3 16:36	07:22 07:49-08:13/24 16:16 08:16-08:30/14					
10	05:20 06:17-06:40/23 20:44 19:43-20:16/33	05:52 06:15-06:50/35 20:13 06:50-06:59/9	06:29 06:50-07:48/58 19:19	07:05 07:34-08:07/33 18:22 17:21-17:56/35	06:46 07:46-07:58/12 16:35	07:23 07:50-08:14/24 16:16 08:16-08:31/15					
11	05:21 06:17-06:41/24 20:44 19:44-20:16/32	05:53 06:16-06:49/33 20:12 06:49-06:59/10	06:30 06:52-07:49/57 19:17	07:06 07:33-08:07/34 18:20 17:22-17:55/33	06:48 07:45-08:01/16 16:33	07:24 07:51-08:14/23 16:16 08:16-08:32/16					
12	05:22 06:16-06:42/26 20:43 19:44-20:16/32	05:54 06:17-06:47/30 20:10 06:47-06:59/12	06:31 06:53-07:49/56 19:15	07:08 07:32-08:07/35 18:19 17:23-17:53/30	06:49 07:43-08:03/20 16:32	07:25 07:51-08:14/23 16:16 08:16-08:33/17					
13	05:22 06:16-06:44/28 20:43 19:44-20:16/32	05:56 06:19-06:47/28 20:09 06:47-06:59/12	06:32 06:54-07:49/55 19:13	07:09 07:32-08:07/35 18:17 17:24-17:51/27	06:51 07:42-08:05/23 16:31	07:26 07:52-08:14/22 16:16 08:16-08:34/18					
14	05:23 06:16-06:45/29 20:42 19:45-20:15/30	05:57 06:20-06:46/26 20:07 06:46-06:59/13	06:33 06:55-07:49/54 19:11	07:10 07:33-08:07/34 18:15 17:26-17:50/24	06:52 07:41-08:05/24 16:30	07:27 07:52-08:14/22 16:16 08:16-08:34/18					
15	05:24 06:15-06:45/30 20:42 19:44-20:14/30	05:58 06:21-06:44/23 20:06 06:44-06:58/14	06:35 06:56-07:49/53 19:09	07:11 07:33-08:07/34 18:13 17:28-17:46/18	06:53 07:41-08:07/26 16:29	07:27 07:53-08:14/21 16:16 08:16-08:35/19					
16	05:25 06:14-06:45/31 20:41 19:44-20:13/29	05:59 06:22-06:42/20 20:04 06:42-06:57/15	06:36 06:58-07:49/51 19:07	07:13 07:35-08:07/32 18:12 17:32-17:42/10	06:55 07:40-08:07/27 16:28	07:28 07:54-08:15/21 16:16 08:17-08:36/19					
17	05:26 06:13-06:46/33 20:40 19:45-20:13/28	06:00 06:23-06:39/16 20:03 06:39-06:56/17	06:37 07:07-07:49/42 19:05	07:14 07:36-08:06/30 18:10	06:56 07:40-08:09/29 16:27	07:29 07:55-08:15/20 16:17 08:17-08:37/20					
18	05:27 06:13-06:47/34 20:39 19:45-20:12/27	06:01 06:24-06:35/11 20:01 06:35-06:55/20	06:38 07:07-07:49/42 19:03	07:15 07:37-08:05/28 18:08	06:57 07:40-08:09/29 16:26	07:29 07:55-08:15/20 16:17 08:17-08:37/20					
19	05:28 06:13-06:48/35 20:39 19:46-20:11/25	06:03 06:25-06:54/29 19:58	06:39 07:07-07:48/41 19:01	07:17 07:39-08:05/26 18:07	06:59 07:39-08:09/30 16:25	07:30 07:56-08:16/20 16:17 08:18-08:38/20					
20	05:29 06:12-06:48/36 20:38 19:46-20:11/25	06:04 06:27-06:53/26 19:56 07:06-07:20/14	06:41 07:07-07:48/41 19:00 17:43-17:50/7	07:18 07:40-08:04/24 18:05	07:00 07:40-08:10/30 16:24	07:31 07:56-08:15/19 16:18 08:18-08:38/20					
21	05:30 06:12-06:49/37 20:37 19:47-20:10/23	06:05 06:28-06:51/23 19:54 07:03-07:23/20	06:42 07:07-07:47/40 18:58 17:37-17:54/17	07:19 07:41-08:02/21 18:03	07:01 07:39-08:10/31 16:24	07:31 07:57-08:16/19 16:18 08:19-08:39/20					
22	05:31 06:12-06:50/38 20:36 19:47-20:09/22	06:06 06:29-06:49/20 19:53 07:01-07:24/23	06:43 07:07-07:46/39 18:56 17:34-17:56/22	07:21 07:43-08:01/18 18:02	07:03 07:40-08:11/31 16:23	07:32 07:57-08:16/19 16:19 08:19-08:39/20					
23	05:32 06:11-06:50/39 20:35 19:48-20:08/20	06:07 06:30-06:47/17 19:51 06:58-07:26/28	06:44 07:07-07:45/38 18:54 17:31-17:58/27	07:22 07:44-07:59/15 18:00	07:04 07:40-08:11/31 16:22	07:32 07:58-08:17/19 16:19 08:20-08:40/20					
24	05:33 06:11-06:51/40 20:34 19:49-20:07/18	06:09 06:31-06:44/13 19:49 06:57-07:27/30	06:45 07:08-07:44/36 18:52 17:30-18:00/30	07:23 07:46-07:56/10 17:58	07:05 07:40-08:11/31 16:21	07:33 07:58-08:17/19 16:20 08:20-08:40/20					
25	05:34 06:11-06:52/41 19:50-20:06/16 20:33 06:52-06:53/1	06:10 06:35-06:36/1 19:48 06:55-07:28/33	06:47 07:08-07:43/35 18:50 17:28-18:00/32	07:25 07:25 17:57	07:06 07:41-08:12/31 16:21	07:33 07:58-08:18/20 16:20 08:21-08:41/20					
26	05:35 06:10-06:52/42 19:51-20:05/14 20:32 06:52-06:54/2	06:11 06:54-07:28/34 19:46	06:48 07:09-07:41/32 18:48 17:26-18:01/35	07:26 07:26 17:55	07:08 07:41-08:12/31 16:20	07:33 07:59-08:19/20 16:21 08:21-08:41/20					
27	05:36 06:10-06:53/43 19:52-20:04/12 20:31 06:53-06:55/2	06:12 06:52-07:29/37 19:44	06:49 07:10-07:39/29 18:46 17:25-18:01/36	07:27 07:27 17:54	07:09 07:41-08:12/31 16:19	07:34 07:59-08:19/20 16:22 08:22-08:41/19					
28	05:37 06:10-06:53/43 19:55-20:03/8 20:30 06:53-06:55/2	06:13 06:52-07:30/38 19:42	06:50 07:11-07:36/25 18:44 17:23-18:01/38	07:29 07:29 17:52	07:10 07:42-08:13/31 16:19	07:34 07:59-08:20/21 16:22 08:22-08:41/19					
29	05:38 06:10-06:53/43 20:29 06:53-06:56/3	06:14 06:51-07:30/39 19:41	06:51 07:14-07:35/21 18:43 17:23-18:02/39	07:30 07:30 17:51	07:11 07:42-08:13/31 16:18	07:34 07:59-08:20/21 16:23 08:23-08:41/18					
30	05:39 06:10-06:53/43 20:28 06:53-06:57/4	06:16 06:50-07:30/40 19:39	06:53 07:17-07:31/14 18:41 17:22-18:02/40	07:31 07:31 17:49	07:12 07:43-08:13/30 16:18	07:34 08:00-08:22/22 16:24 08:24-08:42/18					
31	05:40 06:09-06:53/44 20:26 06:53-06:57/4	06:17 06:50-07:30/40 19:37	 	07:33 17:48	 	07:35 08:00-08:23/23 16:25 08:25-08:42/17					
hrs	472	436	376	341	288	275					
ker	1686	1287	1638	1128	578	1165					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 27

Licensed user:

EDR

217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 21 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (107)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	07:35 08:00-08:06/6	07:17 07:42-08:22/40	06:36 07:16-07:41/25	06:39 06:59-07:34/35	18:46-19:00/14	05:48
	16:26	17:04	17:43	19:24 17:54-18:48/54	20:00	20:34 06:07-06:13/6
2	07:35 08:00-08:08/8	07:16 07:42-08:21/39	06:34 07:17-07:39/22	06:37 06:57-07:33/36	18:45-19:00/15	05:46
	16:27	17:06	17:45	19:25 17:54-18:48/54	20:01	20:35 06:06-06:12/6
3	07:35 07:59-08:09/10	07:15 07:42-08:19/37	06:32 07:19-07:37/18	06:35 06:55-07:32/37	18:43-19:01/18	05:45
	16:28	17:07	17:46	19:26 17:53-18:46/53	20:02	20:36 06:06-06:12/6
4	07:35 07:59-08:10/11	07:14 07:43-08:15/32	06:31 07:21-07:34/13	06:34 06:54-07:31/37	18:42-19:03/21	05:43
	16:29	17:08	17:48	19:27 17:54-18:45/51	20:04	20:37 06:05-06:11/6
5	07:35 07:59-08:12/13	07:12 07:42-08:12/30	06:29	06:32 06:52-07:29/37	18:39-19:04/25	05:42
	16:30	17:10	17:49	19:29 17:54-18:41/47	20:05	20:38 06:05-06:11/6
6	07:35 07:59-08:13/14	07:11 07:43-08:12/29	06:27	06:30 06:50-07:27/37	19:03-19:04/1	05:40
	16:31	17:11	17:50	19:30 17:54-19:03/69	20:06	06:02-06:05/3
7	07:34 07:59-08:14/15	07:10 07:44-08:12/28	06:25	06:28 06:48-07:24/36	19:02-19:05/3	05:39
	16:32	17:13	17:52	19:31 17:55-19:02/67	20:07	06:01-06:07/6
8	07:34 07:58-08:15/17	07:09 07:30-07:38/8	07:24	06:26 06:46-07:17/31	19:02-19:04/2	05:38
	16:33	17:14 07:44-08:11/27	18:53	19:32 17:55-19:02/67	20:09	05:59-06:01/2
9	07:34 07:58-08:16/18	07:07 07:29-07:42/13	07:22	06:24 06:45-07:18/33	18:31-19:01/30	05:36
	16:34	17:16 07:45-08:11/26	18:54	19:34 17:55-18:34/39	19:01-19:04/3	05:11
10	07:34 07:58-08:18/20	07:06 07:27-07:43/16	07:20	06:23 06:45-07:17/32	18:32-19:01/29	05:10
	16:35	17:17 07:46-08:09/23	18:55	19:35 17:57-18:33/36	19:01-19:05/4	06:03-06:09/6
11	07:33 07:57-08:18/21	07:05 07:26-07:34/8	07:18	06:21 06:44-07:16/32	18:32-18:59/27	05:11
	16:36	17:18 07:34-07:45/11	18:57	19:36 17:58-18:32/34	18:59-19:04/5	05:51-06:02/11
12	07:33 07:57-08:19/22	07:03 07:24-07:37/13	07:16	06:19 06:44-07:15/31	18:33-18:58/25	05:10
	16:37	17:20 07:37-07:46/9	18:58	19:37 17:59-18:30/31	18:58-19:03/5	06:06-06:11/6
13	07:33 07:56-08:20/24	07:02 07:23-07:40/17	07:14	06:17 06:44-07:14/30	18:35-18:56/21	05:10
	16:39	17:21 07:40-07:47/7	18:59	19:39 18:00-18:28/28	18:56-19:02/6	05:53-06:06/13
14	07:32 07:56-08:21/25	07:00 07:21-07:41/20	07:13	06:15 06:46-07:13/27	18:38-18:55/17	05:11
	16:40	17:23 07:41-07:48/7	19:01	19:40 18:03-18:26/23	18:55-19:02/7	05:52-06:07/15
15	07:32 07:55-08:22/27	06:59 07:20-07:43/23	07:11	06:14 06:46-07:12/26	18:39-18:51/12	20:16
	16:41	17:24 07:43-07:49/6	19:02	19:41 18:05-18:23/18	18:51-19:01/10	06:07-06:12/5
16	07:31 07:55-08:22/27	06:57 07:18-07:44/26	07:09	06:12 06:47-07:10/23	18:40-18:59/19	05:29
	16:42	17:26 07:44-07:49/5	19:03	19:43 18:09-18:17/8		05:51-06:07/16
17	07:30 07:55-08:23/28	06:56 07:17-07:45/28	07:07	06:10 06:49-07:09/20		06:08-06:13/5
	16:44	17:27 07:45-07:50/5	19:05	19:44 18:42-18:58/16		05:49-06:08/19
18	07:30 07:55-08:24/29	06:54 07:15-07:45/30	07:05	06:09 06:50-07:06/16		05:10
	16:45	17:28 07:45-07:49/4	19:06	19:45 18:44-18:55/11		05:53-06:09/16
19	07:29 07:55-08:24/29	06:53 07:14-07:47/33	07:03	06:07 06:53-07:02/9		20:45
	16:46	17:30 07:47-07:50/3	19:07	19:46		05:48-06:08/20
20	07:28 07:51-08:24/33	06:51 07:14-07:46/32	07:01	06:05		06:08-06:14/6
	16:48	17:31 07:46-07:49/3	19:08	19:48		05:25 05:47-06:08/21
21	07:28 07:51-08:25/34	06:49 07:13-07:46/33	07:00	06:03		06:08-06:14/6
	16:49	17:33 07:46-07:49/3	19:10	19:49		05:23 05:45-06:08/23
22	07:27 07:50-08:25/35	06:48 07:13-07:47/34	06:58	06:02		05:10
	16:50	17:34 07:47-07:49/2	19:11	19:50		06:08-06:13/5
23	07:26 07:49-08:26/37	06:46 07:13-07:46/33	06:56	06:00		05:22 05:44-06:09/25
	16:52	17:35 07:46-07:48/2	19:12	19:51		06:09-06:14/5
24	07:25 07:48-08:26/38	06:44 07:13-07:46/33	06:54	05:59		05:20 05:43-06:08/25
	16:53	17:37 07:46-07:47/1	19:14	19:53		06:08-06:14/6
25	07:24 07:47-08:26/39	06:43 07:14-07:46/32	06:52	05:57		05:19 05:42-06:08/26
	16:54	17:38	19:15	19:54		06:08-06:14/6
26	07:23 07:46-08:26/40	06:41 07:14-07:45/31	06:50	05:55		05:18 05:41-06:08/27
	16:56	17:39	19:16	19:55		06:08-06:13/5
27	07:23 07:45-08:26/41	06:39 07:14-07:43/29	06:48	05:54		05:18 05:42-06:08/26
	16:57	17:41	19:17	19:56		06:08-06:14/6
28	07:22 07:44-08:25/41	06:38 07:14-07:42/28	06:46	05:52		05:17 05:42-06:08/26
	16:58	17:42	19:19	19:58		06:08-06:13/5
29	07:21 07:43-08:25/42		06:45	05:51		05:16 05:42-06:07/25
	17:00		19:20	19:59		06:07-06:13/6
30	07:19 07:43-08:25/42		06:43	05:49		05:15 05:43-06:07/24
	17:01		19:21	20:00		06:07-06:13/6
31	07:18 07:42-08:23/41		06:41			05:15 05:43-06:07/24
	17:03		19:22			06:07-06:12/5
Potential sun hours	286	291	369	404	459	466
Sum of minutes with flicker	827	955	1028	1575	599	562

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 28

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 21 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (107)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 05:55-06:06/11 20:47 06:06-06:14/8	05:42 06:05-06:16/11 20:25 06:16-06:22/6	06:18 06:43-07:15/32 18:31-18:58/27	06:54 18:39	06:34 06:57-07:13/16 16:46 07:15-07:39/24	07:14 07:39-08:00/21 16:17
2	05:15 05:55-06:06/11 20:47 06:06-06:14/8	05:43 06:06-06:15/9 20:24 06:15-06:21/6	06:19 06:43-07:15/32 18:30-18:59/29	06:55 18:37	06:35 06:59-07:11/12 16:45 07:15-07:40/25	07:15 07:40-08:00/20 16:17
3	05:15 05:55-06:08/13 20:47 06:08-06:15/7	05:44 06:07-06:14/7 20:23 06:14-06:20/6	06:20 06:42-07:15/33 18:29-18:59/30	06:56 18:35	06:37 07:00-07:07/7 16:43 07:14-07:41/27	07:16 07:42-08:00/18 16:17
4	05:16 05:54-06:08/14 20:46 06:08-06:15/7	05:45 06:09-06:13/4 20:21 06:13-06:20/7	06:22 06:44-07:15/31 18:59-19:02/3	06:58 18:33	06:38 07:13-07:41/28 16:42	07:17 07:43-08:00/17 16:16
5	05:16 05:54-06:09/15 20:46 06:09-06:16/7	05:46 06:10-06:18/8 20:20	06:23 06:45-07:21/36 18:59-19:02/3	06:59 18:31	06:40 07:13-07:42/29 16:41	07:18 07:44-08:00/16 16:16
6	05:17 05:54-06:11/17 20:46 06:11-06:17/6	05:47 06:11-06:16/5 20:19	06:24 06:46-07:23/37 18:59-19:01/2	07:00 18:30	06:41 07:12-07:42/30 16:39	07:19 07:45-07:59/14 16:16
7	05:18 05:53-06:11/18 20:46 06:11-06:17/6	05:48 06:12-06:14/2 20:17	06:25 06:47-07:24/37 18:34-18:59/25	07:01 18:28	06:42 07:13-07:46/33 16:38	07:20 07:46-07:59/13 16:16
8	05:18 05:53-06:12/19 20:45 06:12-06:18/6	05:50 20:16	06:26 06:48-07:25/37 18:36-18:58/22	07:03 18:26	06:44 07:12-07:49/37 16:37	07:21 07:47-07:58/11 16:16
9	05:19 05:53-06:13/20 20:45 06:13-06:19/6	05:51 20:15	06:28 06:49-07:26/37 18:37-18:56/19	07:04 07:58-08:06/8 18:24	06:45 07:13-07:52/39 16:36	07:22 07:48-07:58/10 16:16
10	05:20 05:53-06:14/21 20:44 06:14-06:20/6	05:52 20:13	06:29 06:50-07:26/36 18:38-18:54/16	07:05 07:55-08:10/15 18:22	06:46 07:13-07:53/40 16:35	07:23 07:49-07:57/8 16:16
11	05:21 05:52-06:14/22 20:44 06:14-06:20/6	05:53 20:12	06:30 06:52-07:27/35 18:38-18:52/14	07:06 07:52-08:12/20 18:20	06:48 07:14-07:55/41 16:33	07:24 07:50-07:56/6 16:16
12	05:22 05:52-06:15/23 20:43 06:15-06:20/5	05:54 20:10	06:31 06:53-07:27/34 18:39-18:51/12	07:08 07:50-08:13/23 18:19	06:49 07:13-07:56/43 16:32	07:25 07:51-07:57/4 16:16
13	05:22 05:52-06:15/23 20:43 06:15-06:21/6	05:56 20:09	06:32 06:54-07:27/33 18:39-18:48/9	07:09 07:48-08:14/26 18:17	06:51 07:15-07:57/42 16:31	07:26 07:52-07:58/1 16:16
14	05:23 05:52-06:16/24 20:42 06:16-06:22/6	05:57 20:07	06:33 06:55-07:27/32 18:39-18:45/6	07:10 07:47-08:15/28 18:15	06:52 07:16-07:57/41 16:30	07:26 07:53-07:59/1 16:16
15	05:24 05:52-06:17/25 20:41 06:17-06:22/5	05:58 20:06	06:35 06:56-07:26/30 18:38-18:43/5	07:11 07:46-08:16/30 18:13	06:53 07:18-07:59/41 16:29	07:27 07:54-07:59/1 16:16
16	05:25 05:50-06:16/26 20:41 06:16-06:22/6	05:59 20:04	06:36 06:57-07:26/29 18:38-18:41/3	07:13 07:45-08:17/32 18:12	06:55 07:19-07:59/40 16:28	07:28 07:55-07:59/1 16:16
17	05:26 05:50-06:17/27 20:40 06:17-06:22/5	06:00 20:03	06:37 06:58-07:25/27 18:37-18:38/1	07:14 07:45-08:18/33 18:10	06:56 07:21-08:00/39 16:27	07:29 07:56-07:59/1 16:17
18	05:27 05:51-06:17/26 20:39 06:17-06:23/6	06:01 20:01	06:38 07:00-07:25/25 19:03	07:15 07:44-08:17/33 18:08	06:57 07:22-08:00/38 16:26	07:29 07:57-07:59/1 16:17
19	05:28 05:52-06:18/26 20:39 06:18-06:23/5	06:03 19:58	06:39 07:01-07:23/22 19:01	07:17 07:45-08:18/33 18:07	06:59 07:23-08:00/37 16:25	07:30 07:58-07:59/1 16:17
20	05:29 05:53-06:18/25 20:38 06:18-06:24/6	06:04 19:56	06:41 07:02-07:22/20 19:00	07:18 07:44-08:17/33 18:05	07:00 07:25-08:00/35 16:24	07:31 07:59-07:59/1 16:18
21	05:30 05:54-06:18/24 20:37 06:18-06:24/6	06:05 19:54	06:42 07:03-07:20/17 18:58	07:19 07:44-08:17/33 18:03	07:01 07:26-08:00/34 16:24	07:32 07:59-07:59/1 16:18
22	05:31 05:55-06:19/24 20:36 06:19-06:24/5	06:06 19:53	06:43 07:04-07:18/14 18:56	07:21 07:44-08:17/33 18:02	07:03 07:28-08:01/33 16:23	07:33 07:59-07:59/1 16:19
23	05:32 05:56-06:19/23 20:35 06:19-06:24/5	06:07 19:51	06:44 07:05-07:16/11 18:54	07:22 07:44-08:16/32 18:00	07:04 07:32-08:01/29 16:22	07:34 07:59-07:59/1 16:19
24	05:33 05:57-06:19/22 20:34 06:19-06:24/5	06:09 06:56-07:07/11 19:49	06:45 07:07-07:13/6 18:52	07:23 07:46-08:16/30 17:58	07:05 07:32-08:01/29 16:21	07:35 07:59-07:59/1 16:20
25	05:34 05:58-06:19/21 20:33 06:19-06:24/5	06:10 06:53-07:09/16 19:48	06:47 17:55-18:16/21 18:50	07:25 07:47-08:15/28 17:57	07:06 07:34-08:01/27 16:21	07:36 07:59-07:59/1 16:20
26	05:35 05:59-06:19/20 20:32 06:19-06:24/5	06:11 06:51-07:11/20 19:46	06:48 17:59-18:10/11 18:48	07:26 07:48-08:13/25 17:55	07:08 07:34-08:01/27 16:20	07:37 07:59-07:59/1 16:21
27	05:36 06:00-06:18/18 20:31 06:18-06:24/6	06:12 06:49-07:12/23 18:42-19:01/19	06:49 18:03-18:11/8 18:46	07:27 07:50-08:13/23 17:54	07:09 07:34-08:01/27 16:19	07:38 07:59-07:59/1 16:22
28	05:37 06:01-06:18/17 20:30 06:18-06:24/6	06:13 06:48-07:14/26 18:40-18:52/12	06:50 18:44	07:29 07:51-08:11/20 17:52	07:10 07:36-08:01/25 16:19	07:39 07:59-07:59/1 16:23
29	05:38 06:02-06:18/16 20:29 06:18-06:23/5	06:14 06:47-07:14/27 18:39-18:56/17	06:51 18:43	07:30 07:53-08:09/16 17:51	07:11 07:37-08:01/24 16:18	07:40 07:59-07:59/1 16:24
30	05:39 06:03-06:17/14 20:28 06:17-06:23/6	06:16 06:45-07:15/30 18:35-18:57/22	06:53 18:41	07:31 07:54-08:06/12 17:49	07:12 07:38-08:01/23 16:18	07:41 07:59-07:59/1 16:25
31	05:40 06:04-06:17/13 20:26 06:17-06:22/5	06:17 06:44-07:15/31 18:33-18:58/25	06:54 17:48	07:33 07:56-08:01/5 17:48	07:13 07:39-08:01/22 16:18	07:42 07:59-07:59/1 16:26
Potential sun hours	472	436	376	341	288	275
Sum of minutes with flicker	800	516	2116	703	1022	154

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 29

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 22 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (108)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June		
1	07:35 16:26	07:17 17:04			06:36 17:44	16:31-17:11/40	06:39 19:24	07:01-08:03/62	05:48 20:00	06:23-07:24/61 18:36-19:09/33	05:14 20:35	05:58-07:04/66 07:04-07:26/22	
2	07:35 16:27	07:16 17:06			06:34 17:45	16:30-17:12/42	06:37 19:25	07:00-08:02/62	05:46 20:01	06:22-07:24/62 18:36-19:08/32	05:14 20:35	05:57-07:03/66 07:03-07:25/22	
3	07:35 16:28	07:15 17:07			06:33 17:46	16:29-17:12/43	06:35 19:26	07:00-08:02/62 08:02-08:03/1	05:45 20:03	06:21-06:37/16 06:37-07:25/48	18:38-19:07/29	05:13 20:36	05:58-07:04/66 07:04-07:25/21
4	07:35 16:29	07:14 17:08			06:31 17:48	16:28-17:13/45	06:34 19:28	06:55-08:01/66 08:01-08:03/2	05:43 20:04	06:19-06:42/23 06:42-07:26/44	18:39-19:05/26	05:13 20:37	05:57-07:03/66 07:03-07:25/22
5	07:35 16:30	07:13 17:10			06:29 17:49	06:52-06:55/3 16:28-17:14/46	06:32 19:29	06:52-08:00/68 08:00-08:02/2	05:42 20:05	06:15-06:44/29 06:44-07:26/42	18:40-19:03/23	05:12 20:38	05:58-07:04/66 07:04-07:25/21
6	07:35 16:31	07:11 17:11			06:27 17:50	06:48-06:59/11 16:27-17:14/47	06:30 19:30	06:50-07:59/69 07:59-08:02/3	05:40 20:06	06:13-06:46/33 06:46-07:26/40	18:43-19:01/18	05:12 20:39	05:58-07:05/67 07:05-07:25/20
7	07:35 16:32	07:10 17:13			06:25 17:52	06:46-07:00/14 16:26-17:14/48	06:28 19:31	06:48-07:57/69 07:57-08:01/4	05:39 20:07	06:12-06:48/36 06:48-07:27/39	18:46-18:59/13	05:12 20:39	05:58-07:04/66 07:04-07:24/20
8	07:34 16:33	07:09 17:14			07:24 18:53	07:44-08:01/17 17:26-18:13/47	06:26 19:33	06:47-07:55/68 07:55-08:00/5	05:38 20:09	06:09-06:49/40 06:49-07:26/37		05:11 20:40	05:58-07:05/67 07:05-07:25/20
9	07:34 16:34	07:07 17:16			07:22 18:54	07:42-08:02/20 17:25-18:13/48	06:24 19:34	06:46-07:54/68 07:54-08:00/6	05:36 20:10	06:08-06:51/43 06:51-07:27/36		05:11 20:41	05:58-07:05/67 07:05-07:25/20
10	07:34 16:35	07:06 17:17			07:20 18:56	07:40-08:02/22 17:25-18:13/48	06:23 19:35	06:46-07:52/66 07:52-07:59/7	05:35 20:11	06:07-06:52/45 06:52-07:27/35		05:11 20:41	05:59-07:05/66 07:05-07:25/20
11	07:33 16:36	07:05 17:18			07:18 18:57	07:40-08:03/23 17:26-18:13/47	06:21 19:36	06:45-07:49/64 07:49-07:58/9	05:34 20:12	06:06-06:54/48 06:54-07:27/33		05:10 20:42	05:59-07:06/67 07:06-07:25/19
12	07:33 16:37	07:03 17:20			07:16 18:58	07:40-08:03/23 17:25-18:13/48	06:19 19:38	06:44-07:45/61 07:45-07:57/12	05:33 20:13	06:05-06:55/50 06:55-07:27/32		05:10 20:43	05:58-07:05/67 07:05-07:24/19
13	07:33 16:39	07:02 17:21			07:15 18:59	07:39-08:02/23 17:25-18:12/47	06:17 19:39	06:45-07:56/71 18:37-19:14/37	05:31 20:15	06:03-06:55/52 06:55-07:27/32		05:10 20:43	05:59-07:05/66 07:05-07:24/19
14	07:32 16:40	07:00 17:23			07:13 19:01	07:39-08:02/23 17:25-18:11/46	06:16 19:40	06:44-07:55/71 18:37-19:15/38	05:30 20:16	06:02-06:56/54 06:56-07:27/31		05:10 20:44	05:59-07:06/67 07:06-07:25/19
15	07:32 16:41	06:59 17:24			07:11 19:02	07:39-07:48/9 07:48-08:01/13	06:14 19:41	06:44-07:53/69 18:35-19:15/40	05:29 20:17	06:02-06:57/55 06:57-07:27/30		05:10 20:44	05:59-07:06/67 07:06-07:25/19
16	07:31 16:42	06:57 17:26			07:09 19:03	07:38-07:55/17 07:55-08:00/5	06:12 19:43	06:44-07:08/24 07:13-07:52/39	05:28 20:18	06:01-06:57/56 06:57-07:27/30		05:10 20:45	05:59-07:06/67 07:06-07:25/19
17	07:31 16:44	06:56 17:27			07:07 19:05	07:34-07:58/24 17:26-18:08/42	06:10 19:44	06:46-07:08/22 07:15-07:51/36	05:27 20:19	06:00-06:58/58 06:58-07:27/29		05:10 20:45	06:00-07:06/66 07:06-07:25/19
18	07:30 16:45	06:54 17:28			07:05 19:06	07:32-08:00/28 17:27-18:07/40	06:09 19:45	06:46-07:06/20 07:15-07:49/34	05:26 20:20	06:00-06:58/58 06:58-07:27/29		05:10 20:45	06:00-07:06/66 07:06-07:25/19
19	07:29 16:46	06:53 17:30			07:03 19:07	07:30-08:01/31 17:29-18:06/37	06:07 19:46	06:44-07:07/23 07:17-07:46/29	05:25 20:22	05:59-06:59/60 06:59-07:27/28		05:10 20:46	06:01-07:07/66 07:07-07:26/19
20	07:29 16:48	06:51 17:31			07:02 19:09	07:28-08:02/34 17:30-18:04/34	06:05 19:48	06:41-07:11/30 07:19-07:44/25	05:24 20:23	05:59-06:59/60 06:59-07:27/28		05:10 20:46	06:01-07:07/66 07:07-07:26/19
21	07:28 16:49	06:49 17:33			07:00 19:10	07:26-08:03/37 17:31-18:02/31	06:04 19:49	06:38-07:13/35 07:21-07:41/20	05:23 20:24	05:58-07:00/62 07:00-07:26/26		05:10 20:46	06:01-07:07/66 07:07-07:26/19
22	07:27 16:50	06:48 17:34	16:49-16:55/6		06:58 19:11	07:25-08:04/39 17:33-18:00/27	06:02 19:50	06:35-07:14/39 07:24-07:37/13	05:22 20:25	05:59-07:01/62 07:01-07:27/26		05:11 20:47	06:01-07:07/66 07:07-07:26/19
23	07:26 16:52	06:46 17:35	16:43-17:00/17		06:56 19:12	07:24-08:04/40 17:35-17:57/22	06:00 19:51	06:34-07:17/43 18:32-19:15/43	05:21 20:26	05:58-07:01/63 07:01-07:27/26		05:11 20:47	06:01-07:07/66 07:07-07:26/19
24	07:25 16:53	06:45 17:37	16:39-17:03/24		06:54 19:14	07:22-08:04/42 17:38-17:53/15	05:59 19:53	06:31-07:18/47 18:32-19:14/42	05:20 20:27	05:58-07:01/63 07:01-07:26/25		05:11 20:47	06:02-07:08/66 07:08-07:27/19
25	07:25 16:54	06:43 17:38	16:38-17:06/28		06:52 19:15	07:20-08:04/44 17:12-08:04/52	05:57 19:54	06:30-07:19/49 18:33-19:14/41	05:19 20:28	05:58-07:01/63 07:01-07:26/25		05:11 20:47	06:02-07:08/66 07:08-07:27/19
26	07:24 16:56	06:41 17:39	16:35-17:08/33		06:50 19:16	07:12-08:04/52 17:10-08:05/55	05:55 19:55	06:28-07:20/52 18:33-19:13/40	05:18 20:29	05:57-07:01/64 07:01-07:26/25		05:12 20:47	06:01-07:08/67 07:08-07:27/19
27	07:23 16:57	06:39 17:41	16:33-17:09/36		06:48 19:17	07:10-08:05/55 17:10-08:05/58	05:54 19:56	06:27-07:22/55 18:33-19:13/40	05:18 20:30	05:58-07:02/64 07:02-07:26/24		05:12 20:47	06:02-07:09/67 07:09-07:28/19
28	07:22 16:59	06:38 17:42	16:32-17:10/38		06:47 19:19	07:07-08:05/58 17:10-08:04/59	05:52 19:58	06:26-07:22/56 18:33-19:12/39	05:17 20:31	05:57-07:02/65 07:02-07:26/24		05:13 20:47	06:02-07:09/67 07:09-07:28/19
29	07:21 17:00				06:45 19:20	07:05-08:04/59 17:10-08:04/60	05:51 19:59	06:25-07:23/58 18:34-19:12/38	05:16 20:32	05:57-07:02/65 07:02-07:25/23		05:13 20:47	06:03-07:09/66 07:09-07:29/20
30	07:20 17:01				06:43 19:21	07:04-08:04/60 17:02-08:03/61	05:49 20:00	06:24-07:23/59 18:35-19:10/35	05:16 20:33	05:57-07:03/66 07:03-07:26/23		05:14 20:47	06:03-07:09/66 07:09-07:28/19
31	07:18 17:03				06:41 19:22				05:15 20:34	05:57-07:03/66 07:03-07:25/22			
Potential sun hours	286	291			369		404		459		466		
Sum of minutes with flicker	0	182			1864		2743		2708		2580		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 30

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 22 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (108)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14	06:03-07:10/67	05:42	06:15-07:04/49		06:18	06:44-07:48/64	18:39-19:11/32	06:54	07:18-07:41/23	06:34	07:14
	20:47	07:10-07:29/19	20:25	07:04-07:37/33		19:35	07:48-07:57/9		18:39	17:04-17:51/47	16:46	16:18
2	05:15	06:03-07:10/67	05:43	06:16-07:03/47		06:19	06:44-07:50/66	18:40-19:09/29	06:55	07:18-07:41/23	06:36	07:15
	20:47	07:10-07:29/19	20:24	07:03-07:37/34		19:33	07:50-07:57/7		18:37	17:03-17:51/48	16:45	16:17
3	05:15	06:04-07:10/66	05:44	06:18-07:02/44		06:20	06:44-07:51/67	18:41-19:07/26	06:56	07:19-07:41/22	06:37	07:16
	20:47	07:10-07:30/20	20:23	07:02-07:38/36		19:32	07:51-07:57/6		18:35	17:04-17:51/47	16:44	16:17
4	05:16	06:03-07:10/67	05:45	06:19-07:01/42		06:22	06:45-07:53/68	18:44-19:06/22	06:58	07:19-07:40/21	06:38	07:17
	20:47	07:10-07:30/20	20:22	07:01-07:37/36		19:30	07:53-07:58/5		18:33	17:03-17:51/48	16:42	16:17
5	05:16	06:04-07:10/66	05:46	06:20-06:59/39	18:59-19:06/7	06:23	06:45-07:54/69	18:47-19:02/15	06:59	07:20-07:39/19	06:40	07:18
	20:46	07:10-07:31/21	20:20	06:59-07:37/38		19:28	07:54-07:58/4		18:31	17:02-17:50/48	16:41	16:16
6	05:17	06:04-07:11/67	05:47	06:22-06:57/35	18:54-19:10/16	06:24	06:46-07:55/69		07:00	07:21-07:37/16	06:41	07:19
	20:46	07:11-07:31/20	20:19	06:57-07:36/39		19:26	07:55-07:58/3		18:30	17:02-17:50/48	16:40	16:16
7	05:18	06:04-07:10/66	05:49	06:24-06:55/31	18:52-19:12/20	06:25	06:47-07:55/68		07:01	07:23-07:36/13	06:42	07:20
	20:46	07:10-07:31/21	20:18	06:55-07:36/41		19:24	07:55-07:57/2		18:28	17:03-17:50/47	16:38	16:16
8	05:18	06:04-07:11/67	05:50	06:26-06:53/27	18:50-19:13/23	06:26	06:48-07:55/67		07:03	07:24-07:32/8	06:44	07:21
	20:45	07:11-07:32/21	20:16	06:53-07:35/42		19:22	07:55-07:57/2		18:26	17:02-17:49/47	16:37	16:16
9	05:19	06:05-07:11/66	05:51	06:29-06:49/20	18:48-19:15/27	06:28	06:53-07:56/63		07:04	17:02-17:48/46	06:45	07:22
	20:45	07:11-07:32/21	20:15	06:49-07:34/45		19:20			18:24		16:36	16:16
10	05:20	06:05-07:12/67	05:52	06:30-06:43/13	18:46-19:16/30	06:29	06:53-07:56/63		07:05	17:03-17:48/45	06:47	07:23
	20:44	07:12-07:33/21	20:13	06:43-07:34/51		19:19			18:22		16:35	16:16
11	05:21	06:05-07:11/66	05:53	06:30-07:33/63		06:30	06:54-07:56/62		07:06	17:03-17:46/43	06:48	07:24
	20:44	07:11-07:33/22	20:12	18:45-19:17/32		19:17			18:21		16:33	16:16
12	05:22	06:05-07:11/66	05:54	06:32-07:33/61		06:31	06:54-07:55/61		07:08	17:04-17:45/41	06:49	07:25
	20:43	07:11-07:33/22	20:10	18:43-19:17/34		19:15			18:19		16:32	16:16
13	05:22	06:06-07:11/65	05:56	06:32-07:32/60		06:32	06:55-07:55/60		07:09	17:05-17:44/39	06:51	07:26
	20:43	07:11-07:34/23	20:09	18:43-19:19/36		19:13			18:17		16:31	16:16
14	05:23	06:06-07:12/66	05:57	06:33-07:31/58		06:34	06:55-07:55/60		07:10	17:06-17:42/36	06:52	07:27
	20:42	07:12-07:35/23	20:07	18:42-19:19/37		19:11			18:15		16:30	16:16
15	05:24	06:07-07:12/65	05:58	06:34-07:30/56		06:35	06:56-07:54/58		07:12	17:06-17:40/34	06:53	07:27
	20:42	07:12-07:35/23	20:06	18:41-19:20/39		19:09			18:13		16:29	16:16
16	05:25	06:06-07:11/65	05:59	06:34-07:28/54		06:36	06:57-07:53/56		07:13	17:08-17:39/31	06:55	07:28
	20:41	07:11-07:35/24	20:04	18:40-19:20/40		19:07			18:12		16:28	16:16
17	05:26	06:06-07:11/65	06:00	06:35-07:27/52		06:37	07:00-07:53/53		07:14	17:10-17:37/27	06:56	07:29
	20:40	07:11-07:35/24	20:03	18:39-19:20/41		19:05			18:10		16:27	16:17
18	05:27	06:07-07:11/64	06:01	06:36-07:25/49		06:38	07:08-07:53/45		07:15	17:12-17:34/22	06:57	07:30
	20:39	07:11-07:35/24	20:01	18:38-19:20/42		19:03			18:08		16:26	16:17
19	05:28	06:07-07:11/64	06:03	06:37-07:23/46		06:39	07:09-07:52/43		07:17	17:16-17:31/15	06:59	07:30
	20:39	07:11-07:36/25	19:58	18:38-19:20/42		19:02	17:27-17:40/13		18:07		16:25	16:17
20	05:29	06:08-07:11/63	06:04	06:40-07:22/42		06:41	07:10-07:51/41		07:18		07:00	07:31
	20:38	07:11-07:36/25	19:56	18:37-19:20/43		19:00	17:22-17:43/21		18:05		16:24	16:18
21	05:30	06:08-07:11/63	06:05	06:41-07:20/39	18:38-19:21/43	06:42	07:10-07:49/39		07:19		07:01	07:31
	20:37	07:11-07:36/25	19:54	07:29-07:43/14		18:58	17:19-17:45/26		18:03		16:24	16:18
22	05:31	06:09-07:10/61	06:06	06:43-07:17/34	18:37-19:20/43	06:43	07:11-07:48/37		07:21		07:03	07:32
	20:36	07:10-07:37/27	19:53	07:25-07:46/21		18:56	17:16-17:46/30		18:02		16:23	16:19
23	05:32	06:09-07:10/61	06:07	06:46-07:14/28	18:37-19:20/43	06:44	07:12-07:47/35		07:22		07:04	07:32
	20:35	07:10-07:37/27	19:51	07:23-07:49/26		18:54	17:14-17:47/33		18:00		16:22	16:19
24	05:33	06:10-07:10/60	06:09	06:49-07:10/21	18:36-19:19/43	06:45	07:13-07:45/32		07:23		07:05	07:33
	20:34	07:10-07:37/27	19:49	07:20-07:50/30		18:52	17:13-17:49/36		17:58		16:21	16:20
25	05:34	06:10-07:09/59	06:10	06:49-07:09/20	18:36-19:19/43	06:47	07:14-07:43/29		07:25		07:06	07:33
	20:33	07:09-07:37/28	19:48	07:18-07:52/34		18:50	17:11-17:50/39		17:57		16:21	16:20
26	05:35	06:11-07:09/58	06:11	06:47-07:10/23	18:36-19:18/42	06:48	07:16-07:40/24		07:26		07:08	07:34
	20:32	07:09-07:37/28	19:46	07:16-07:53/37		18:48	17:09-17:50/41		17:55		16:20	16:21
27	05:36	06:11-07:08/57	06:12	06:47-07:11/24	18:36-19:17/41	06:49	07:18-07:38/20	17:08-17:51/43	07:27		07:09	07:34
	20:31	07:08-07:38/30	19:44	07:15-07:54/39		18:46	07:38-07:41/3		17:54		16:19	16:22
28	05:37	06:12-07:08/56	06:13	06:46-07:55/69		06:50	07:21-07:34/13	17:06-17:51/45	07:29		07:10	07:34
	20:30	07:08-07:38/30	19:42	18:37-19:17/40		18:44	07:34-07:42/8		17:52		16:19	16:22
29	05:38	06:12-07:07/55	06:15	06:45-07:56/71		06:51	07:20-07:42/22		07:30		07:11	07:34
	20:29	07:07-07:38/31	19:41	18:37-19:16/39		18:43	17:06-17:52/46		17:51		16:18	16:23
30	05:39	06:13-07:06/53	06:16	06:45-07:56/71		06:53	07:19-07:42/23		07:31		07:13	07:35
	20:28	07:06-07:37/31	19:39	18:38-19:15/37		18:41	17:05-17:52/47		17:49		16:18	16:24
31	05:41	06:14-07:05/51	06:17	06:44-07:45/61	18:38-19:13/35				07:33			07:35
	20:27	07:05-07:37/32	19:37	07:45-07:57/12					17:48			16:25
Potential sun hours	472		436			376			341		288	275
Sum of minutes with flicker	2703		2915			2070			904		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 31

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 23 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (109)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	07:35 08:04-08:30/26 15:17-15:41/24 16:26 13:15-14:18/63	07:17 07:47-08:46/59 17:04	06:36 07:45-07:47/2 17:44 07:53-08:25/32	06:39 18:21-19:01/40 19:24 18:59-19:01/2	05:48 06:24-07:18/54 19:35-19:37/2 20:00 18:19-19:37/78	05:14 05:46-06:28/42 18:50-20:08/78 20:34 06:28-07:22/54
2	07:35 08:04-08:31/27 15:17-15:42/25 16:27 13:15-14:17/62	07:16 07:47-08:46/59 17:06	06:34 07:55-08:22/27 17:45	06:37 18:21-19:02/41 19:25 18:56-19:02/6	05:46 06:22-07:19/57 19:35-19:37/2 20:01 18:18-19:37/79	05:14 05:46-06:28/42 18:50-20:09/79 20:35 06:28-07:21/53
3	07:35 08:03-08:31/28 15:18-15:42/24 16:28 13:16-14:17/61	07:15 07:42-07:53/11 17:07 07:53-08:46/53	06:32 07:57-08:19/22 17:46	06:35 18:20-19:03/43 19:26 19:01-19:03/2	05:45 06:21-07:20/59 19:36-19:37/1 20:02 18:19-19:39/80	05:13 05:46-06:28/42 18:51-20:10/79 20:36 06:28-07:22/54
4	07:35 08:03-08:32/29 15:18-15:43/25 16:29 13:17-14:17/60	07:14 07:39-07:57/18 17:08 07:57-08:46/49	06:31 08:01-08:14/13 17:48	06:34 18:21-19:05/44 19:27	05:43 06:21-07:21/60 19:36-19:39/3 20:04 18:18-19:39/81	05:13 05:46-06:27/41 18:50-20:10/80 20:37 06:27-07:21/54
5	07:35 08:03-08:33/30 15:19-15:43/24 16:30 13:18-14:18/60	07:12 07:36-07:58/22 17:10 07:58-08:44/46	06:29 17:49	06:32 18:20-19:06/46 19:29	05:42 06:09-06:12/3 18:19-19:41/82 20:05 06:20-07:20/60	05:12 05:47-06:27/40 18:51-20:11/80 20:38 06:27-07:21/54
6	07:35 08:03-08:35/32 15:20-15:44/24 16:31 13:19-14:18/59	07:11 07:35-08:00/25 17:11 08:00-08:44/44	06:27 17:50	06:30 18:20-19:07/47 19:30 19:02-19:07/5	05:40 06:04-06:17/13 18:19-19:42/83 20:06 06:19-07:21/62	05:12 05:47-06:28/41 18:52-20:12/80 20:39 06:28-07:22/54
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Potential sun hours	286	291	369	404	459	466
Sum of minutes with flicker	2755	1824	337	2077	5358	5218

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 32

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 23 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (109)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 05:54-06:31/37 18:58-20:20/82 20:47 06:31-07:26/55	05:42 06:05-06:36/31 18:32-19:57/85 20:25 06:36-07:32/56	06:18 18:21-19:12/51 19:35 19:02-19:12/10	06:54 18:39 19:35 19:02-19:12/10	06:34 07:01-07:34/33 16:46 07:34-08:08/34	07:14 07:44-08:21/37 15:05-15:26/21 16:18 13:06-13:59/53
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21	05:30 05:55-06:39/44 18:40-20:10/90 20:37 06:39-07:33/54	06:05 06:46-07:09/23 19:24-19:31/7 19:54 18:28-19:31/63	06:42 18:22-18:36/14 18:58 18:58	07:19 08:00-08:36/36 18:03 08:36-09:06/30	07:01 07:38-08:21/43 16:24 13:16-13:45/29	07:31 08:01-08:22/21 15:12-15:37/25 16:18 13:08-14:13/65
22	05:31 05:55-06:39/44 18:39-20:09/90 20:36 06:39-07:33/54	06:06 06:51-07:04/13 19:22-19:29/7 19:53 18:28-19:29/61	06:43 18:22-18:36/14 18:56 18:56	07:21 08:00-08:37/37 18:02 08:37-09:08/31	07:02 07:39-08:22/43 16:23 13:14-13:47/33	07:32 08:01-08:22/21 15:12-15:37/25 16:19 13:08-14:13/65
23	05:32 05:56-06:39/43 18:39-20:08/89 20:35 06:39-07:33/54	06:07 06:52-07:05/13 19:22-19:29/7 19:51 18:28-19:29/61	06:44 18:22-18:36/14 18:54 18:54	07:22 07:59-08:37/38 18:00 08:37-09:07/30	07:04 07:39-08:21/42 16:22 13:13-13:49/36	07:32 08:02-08:23/21 15:13-15:38/25 16:19 13:10-14:14/64
24	05:33 05:57-06:39/42 18:38-20:07/89 20:34 06:39-07:33/54	06:09 06:53-07:06/13 19:22-19:29/7 19:49 18:28-19:26/58	06:45 18:22-18:36/14 18:52 18:52	07:23 07:59-08:37/38 17:58 08:37-09:08/31	07:05 07:39-08:21/42 15:11-15:16/5 16:21 13:11-13:51/40	07:33 08:02-08:23/21 15:13-15:38/25 16:20 13:10-14:14/64
25	05:34 05:58-06:39/41 18:37-20:06/89 20:33 06:39-07:33/54	06:10 06:54-07:07/13 19:22-19:29/7 19:48 18:28-19:24/56	06:47 18:22-18:36/14 18:50 18:50	07:25 07:59-08:37/38 17:57 08:37-09:08/31	07:06 07:41-08:22/41 15:09-15:20/11 16:21 13:10-13:53/43	07:33 08:02-08:24/22 15:13-15:38/25 16:20 13:10-14:14/64
26	05:35 05:59-06:39/40 18:36-20:05/89 20:32 06:39-07:33/54	06:11 06:55-07:08/13 19:22-19:29/7 19:46 18:28-19:22/54	06:48 18:22-18:36/14 18:48 18:48	07:26 07:58-08:36/38 17:55 08:36-09:08/32	07:08 07:41-08:21/40 15:08-15:21/13 16:20 13:09-13:54/45	07:33 08:03-08:25/22 15:14-15:40/26 16:21 13:11-14:15/64
27	05:36 06:00-06:38/38 18:35-20:04/89 20:31 06:38-07:33/55	06:12 06:56-07:09/13 19:22-19:29/7 19:44 18:28-19:20/52	06:49 18:22-18:36/14 18:46 18:46	07:27 07:59-08:37/38 17:54 08:37-09:09/32	07:09 07:41-08:21/39 15:07-15:22/15 16:19 13:08-13:55/47	07:34 08:03-08:26/23 15:15-15:40/25 16:22 13:11-14:16/65
28	05:37 06:01-06:38/37 18:34-20:03/89 20:30 06:38-07:33/55	06:13 06:57-07:10/13 19:22-19:29/7 19:42 18:29-19:19/50	06:50 18:22-18:36/14 18:44 18:44	07:29 07:58-08:36/38 17:52 08:36-09:08/32	07:10 07:42-08:21/39 15:06-15:23/17 16:19 13:07-13:56/49	07:34 08:03-08:26/23 15:15-15:40/25 16:22 13:12-14:16/64
29	05:38 06:02-06:38/36 18:34-20:02/88 20:29 06:38-07:33/55	06:15 06:58-07:11/13 19:22-19:29/7 19:41 18:29-19:18/51	06:51 18:22-18:36/14 18:43 18:43	07:30 07:59-08:36/37 17:51 08:36-09:09/33	07:11 07:43-08:21/38 15:06-15:25/19 16:18 13:07-13:58/51	07:34 08:03-08:27/24 15:15-15:40/25 16:23 13:12-14:16/64
30	05:39 06:03-06:37/34 18:33-20:01/88 20:28 06:37-07:33/56	06:16 06:59-07:12/13 19:22-19:29/7 19:39 18:29-19:16/77	06:53 18:22-18:36/14 18:41 18:41	07:31 07:59-08:35/36 17:49 08:35-09:08/33	07:12 07:44-08:21/37 15:06-15:26/20 16:18 13:06-13:59/53	07:34 08:03-08:27/24 15:16-15:41/25 16:24 13:13-14:16/63
31	05:41 06:04-06:36/32 18:32-20:00/88 20:26 06:36-07:33/57	06:17 06:59-07:12/13 19:22-19:29/7 19:37 18:23-19:14/51	06:54 18:22-18:36/14 18:41 18:41	07:32 07:59-08:35/36 17:48 08:35-09:08/33	07:13 07:45-08:21/38 15:07-15:27/21 16:19 13:07-13:59/53	07:35 08:04-08:29/25 15:16-15:41/25 16:25 13:13-14:16/63
Potential sun hours	472	436	376	341	288	275
Sum of minutes with flicker	5587	3405	771	1288	2162	3485

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 33

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 24 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (110)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	07:35	08:07-08:45/38	15:52-15:56/4	07:17	08:13-08:56/43	16:23-16:38/15	06:36	15:52-17:09/77		06:39	07:14-07:36/22	05:48		05:14	05:59-06:55/56			
	16:26	14:50-15:57/67		17:04	15:12-16:29/77		17:44	16:52-17:21/29		19:24	07:43-08:47/64	20:00		20:34				
2	07:35	08:06-08:44/38	15:55-15:57/2	07:16	08:14-08:56/42	16:22-16:40/18	06:34	06:57-07:09/12		06:37	07:15-07:34/19	05:46		05:14	05:59-06:54/55			
	16:27	14:50-15:58/68		17:06	15:12-16:31/79		17:45	15:53-17:22/89		19:25	07:43-08:46/63	20:01		20:35				
3	07:35	08:06-08:45/39	15:56-15:58/2	07:15	08:16-08:56/40	16:22-16:42/20	06:32	06:54-07:11/17		06:35	07:19-07:30/11	05:45		05:13	05:59-06:55/56			
	16:28	14:51-15:59/68		17:07	15:13-16:31/78		17:46	15:54-17:23/89		19:26	07:43-08:45/62	20:02		20:36				
4	07:35	08:06-08:46/40	15:57-15:59/2	07:14	08:17-08:55/38	16:22-16:42/20	06:31	06:51-07:13/22	15:55-17:24/89	06:34	07:44-08:44/60	05:43		05:13	05:59-06:55/56			
	16:29	14:51-16:00/69		17:08	15:12-16:36/84		17:48	07:18-07:29/11		19:27		20:04		20:37				
5	07:35	08:07-08:47/40	15:59-16:01/2	07:12	08:17-08:54/37	16:22-16:44/22	06:29	06:50-07:16/26	15:56-17:26/90	06:32	07:44-08:43/59	05:42	06:21-06:31/10	05:12	05:59-06:55/56			
	16:30	14:52-16:01/69		17:10	15:13-16:38/85		17:49	07:16-07:35/19		19:29		20:05		20:38				
6	07:35	08:07-08:48/41	16:01-16:02/1	07:11	08:19-08:53/34	16:22-16:46/24	06:27	06:49-07:17/28	15:58-17:28/90	06:30	07:45-08:41/56	05:40	06:17-06:36/19	05:12	06:00-06:56/56			
	16:31	14:53-16:03/70		17:11	15:14-16:42/88		17:50	07:17-07:39/22		19:30		20:06		20:39				
7	07:34	08:07-08:49/42	16:02-16:04/2	07:10	08:20-08:52/32	16:21-16:47/26	06:25	06:48-07/1729	16:00-17:27/87	06:28	07:45-08:40/55	05:39	06:14-06:39/25	05:12	05:59-06:55/56			
	16:32	14:53-16:04/71		17:13	15:14-16:43/89		17:52	07:17-07:42/25		19:31		20:07		20:39				
8	07:34	08:07-08:49/42	16:03-16:04/1	07:09	08:22-08:49/27	16:21-16:49/28	06:24	07:47-08:18/31	17:02-18:27/85	06:26	07:46-08:38/52	05:38	06:11-06:40/29	05:11	06:00-06:56/56			
	16:33	14:53-16:04/71		17:14	15:14-16:44/90		18:53	08:18-08:43/25		19:32		20:09		20:40				
9	07:34	08:07-08:50/43		07:07	08:24-08:48/24	16:21-16:51/30	07:22	07:46-08:18/32	17:04-18:27/83	06:24	07:47-08:37/50	05:36	06:10-06:42/32	05:11	06:00-06:56/56			
	16:34	14:54-16:06/72		17:16	15:15-16:44/89		18:54	08:18-08:45/27		19:34		20:10		20:41				
10	07:34	08:08-08:51/43		07:06	08:26-08:45/19	16:20-16:52/32	07:20	07:45-08:18/33	17:08-18:26/78	06:23	07:48-08:35/47	05:35	06:08-06:43/35	05:11	06:00-06:56/56			
	16:35	14:55-16:07/72		17:17	15:15-16:46/91		18:56	08:18-08:46/28		19:35		20:11		20:41				
11	07:33	08:07-08:51/44		07:04	08:30-08:41/11	16:19-16:54/35	07:18	07:45-08:18/33	17:17-18:26/69	06:21	07:49-08:33/44	05:34	06:07-06:45/38	05:10	06:01-06:57/56			
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	16:37	14:56-16:10/74		17:20	16:18-16:55/37		18:58	08:18-08:49/31		19:37		20:13		20:43				
13	07:33	08:07-08:53/46	16:09-16:10/1	07:02	08:34-08:44/12	16:17-16:40/83	07:14	07:45-08:17/32	17:21-18:26/65	06:17	07:51-08:28/37	05:31	06:04-06:46/42	05:10	06:00-06:56/56			
	16:39	14:56-16:11/75		17:21	16:17-16:57/40		18:59	08:17-08:50/33		19:39		20:15		20:43				
14	07:32	08:08-08:54/46	16:11-16:12/1	07:00	08:36-08:46/13	16:18-16:32/74	07:13	07:45-08:16/31	17:24-18:25/61	06:15	07:54-08:26/32	05:30	06:03-06:47/44	05:10	06:01-06:56/55			
	16:40	14:57-16:13/76		17:23	16:16-16:58/42		19:01	08:16-08:51/35		19:40		20:16		20:44				
15	07:32	08:08-08:54/46	16:11-16:13/2	06:59	08:38-08:48/14	16:19-16:48/74	07:11	07:45-08:15/30	17:27-18:24/57	06:14	07:56-08:22/26	05:29	06:03-06:48/45	05:10	06:01-06:57/56			
	16:41	14:57-16:13/76		17:24	16:15-17:00/45		19:02	08:15-08:51/36		19:41		20:17		20:44				
16	07:31	08:08-08:54/46	16:12-16:14/2	06:57	08:39-08:49/15	16:20-16:49/75	07:09	07:45-08:14/29	17:42-18:22/40	06:12	07:59-08:18/19	05:28	06:02-06:49/47	05:10	06:01-06:57/56			
	16:42	14:57-16:14/77		17:26	16:13-17:01/48		19:03	08:14-08:52/38		19:43		20:18		20:45				
17	07:30	08:08-08:55/47	16:14-16:16/2	06:56	08:40-08:55/16	16:21-16:50/75	07:07	07:45-08:13/28	17:47-18:21/34	06:10	07:57-08:26/32	05:27	06:01-06:49/48	05:10	06:01-06:57/56			
	16:44	14:58-16:16/78		17:27	16:11-17:03/52		19:05	08:13-08:52/39		19:44		20:19		20:45				
18	07:30	08:08-08:56/48	16:14-16:17/3	06:54	08:41-08:51/17	16:22-16:51/76	07:05	07:26-07:35/9	08:11-08:52/41	06:09	07:59-08:26/32	05:26	06:01-06:50/49	05:10	06:02-06:57/55			
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	16:59	15:08-16:25/77		17:42	16:54-17:19/25		19:19	07:43-08:51/68		19:58		20:31		20:47				
29	07:21	08:12-08:58/46	16:22-16:34/12				06:45	07:13-07:40/27		05:51	07:59-08:26/32	05:16	05:58-06:53/55	05:13	06:05-07:00/55			
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	17:01	15:12-16:28/76					19:21	07:43-08:49/66		20:00		20:33		20:47				
31	07:18	08:13-08:57/44	16:21-16:36/15				06:41	07:13-07:38/25			07:59-08:26/32	05:15	05:58-06:54/56					
	17:03	15:12-16:28/76					19:22	07:43-08:48/65			07:59-08:26/32	20:34						

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 34

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 24 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (110)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December			
1	05:14 20:47	06:05-07:01/56	05:42 20:25	06:16-06:55/39	06:18 19:35	07:48-08:32/44	06:54 18:39	07:24-07:56/32 07:56-08:28/32	16:59-18:05/66	06:34 16:46	07:55-08:15/20 14:45-16:16/91	15:50-16:21/31	07:14 16:18	07:49-08:33/44 14:37-15:50/73
2	05:15 20:47	06:05-07:00/55	05:43 20:24	06:17-06:54/37	06:19 19:33	07:46-08:33/47	06:55 18:37	07:23-07:56/33 07:56-08:27/31	16:57-18:04/67	06:35 16:45	07:53-08:18/25 14:44-16:13/89	15:50-16:19/29	07:15 16:17	07:50-08:33/43 14:37-15:50/73
3	05:15 20:47	06:05-07:01/56	05:44 20:23	06:19-06:54/35	06:20 19:32	07:44-08:34/50	06:56 18:35	07:24-07:56/32 07:56-08:26/30	16:49-18:05/76	06:37 16:44	07:51-08:20/29 14:44-16:14/90	15:51-16:18/27	07:16 16:17	07:51-08:34/43 14:37-15:49/72
4	05:16 20:46	06:05-07:01/56	05:45 20:21	06:21-06:52/31	06:22 19:30	07:44-08:36/52	06:58 18:33	07:23-07:55/32 07:55-08:24/29	16:43-18:04/81	06:38 16:42	07:49-08:21/32 14:43-16:13/90	15:51-16:17/26	07:17 16:17	07:52-08:34/42 14:38-15:50/72
5	05:16 20:46	06:05-07:01/56	05:46 20:20	06:22-06:50/28	06:23 19:28	07:42-08:37/55	06:59 18:31	07:23-07:55/32 07:55-08:21/26	16:40-18:04/84	06:40 16:41	07:48-08:23/35 14:47-08:23/36	15:52-16:16/24	07:18 16:16	07:52-08:34/42 14:38-15:49/71
6	05:17 20:46	06:06-07:02/56	05:47 20:19	06:24-06:47/23	06:24 19:26	07:41-08:37/56	07:00 18:30	07:23-07:53/30 07:53-08:18/25	16:36-18:03/87	06:41 16:40	07:47-08:23/36 14:43-16:08/85	15:52-16:14/22	07:19 16:16	07:53-08:34/41 14:39-15:49/70
7	05:18 20:46	06:05-07:01/56	05:49 20:17	06:27-06:44/17	06:25 19:24	07:39-08:38/59	07:01 18:28	07:24-07:53/29 07:53-08:16/23	16:35-18:03/88	06:42 16:38	07:47-08:25/38 14:43-16:06/83	15:52-16:13/21	07:20 16:16	07:54-08:34/40 14:39-15:48/69
8	05:19 20:45	06:06-07:02/56	05:50 20:16	06:33-06:38/5	06:26 19:22	07:38-08:38/60	07:03 18:26	07:25-07:51/26 07:51-08:13/22	16:32-18:02/90	06:44 16:37	07:45-08:26/41 14:43-16:01/78	15:52-16:11/19	07:21 16:16	07:54-08:34/40 14:39-15:48/69
9	05:19 20:45	06:06-07:02/56	05:51 20:15		06:28 19:20	07:12-07:24/12 07:37-08:39/62	07:04 18:24	07:25-07:50/25 07:50-08:08/18	16:30-18:00/90	06:45 16:36	07:45-08:27/42 14:43-16:02/79	15:53-16:11/18	07:22 16:16	07:55-08:34/39 14:40-15:48/68
10	05:20 20:44	06:07-07:03/56	05:52 20:13		06:29 19:19	07:09-07:26/17 07:36-08:39/63	07:05 18:22	07:27-07:47/20 16:28-17:58/90		06:46 16:35	07:44-08:27/43 14:43-16:00/77	15:54-16:09/15	07:23 16:16	07:56-08:34/38 14:40-15:48/68
11	05:21 20:44	06:06-07:02/56	05:53 20:12		06:30 19:17	07:07-07:29/22 07:35-08:39/64	07:06 18:20	07:29-07:45/16 16:28-17:57/89		06:48 16:33	07:44-08:29/45 14:44-16:00/76	15:54-16:08/14	07:24 16:16	07:57-08:35/38 14:41-15:48/67
12	05:22 20:43	06:07-07:02/55	05:54 20:10		06:31 19:15	07:06-07:30/24 07:35-08:40/65	07:08 18:19	07:32-07:40/8 16:26-17:55/89		06:49 16:32	07:44-08:29/45 14:43-15:59/76	15:54-16:06/12	07:25 16:16	07:58-08:35/37 14:42-15:48/66
13	05:22 20:43	06:07-07:03/56	05:56 20:09		06:32 19:13	07:04-07:30/26 07:34-08:40/66	07:09 18:17	07:24-17:45/81 17:26-17:52/26		06:50 16:31	07:44-08:30/46 14:42-15:59/77	15:54-16:06/12	07:26 16:16	07:57-08:34/37 14:41-15:47/66
14	05:23 20:42	06:08-07:03/55	05:57 20:07		06:33 19:11	07:03-07:30/27 07:33-08:40/67	07:10 18:15	07:24-17:47/83 17:29-17:51/22		06:52 16:30	07:43-08:30/47 14:40-15:57/77	15:53-16:04/11	07:26 16:16	07:58-08:35/37 14:42-15:47/65
15	05:24 20:41	06:08-07:03/55	05:58 20:06		06:35 19:09	07:02-07:30/28 07:33-08:40/67	07:11 18:13	07:19-16:36/17 16:36-17:49/73		06:53 16:29	07:44-08:31/47 14:40-15:58/78	15:54-16:04/10	07:27 16:16	07:59-08:35/36 14:43-15:47/64
16	05:25 20:41	06:07-07:02/55	05:59 20:04		06:36 19:07	07:01-07:30/29 07:32-08:40/68	07:13 18:12	07:14-16:41/27 16:40-17:47/67		06:55 16:28	07:43-08:31/48 14:38-15:57/79	15:53-16:02/9	07:28 16:16	08:00-08:36/36 14:43-15:48/65
17	05:26 20:40	06:08-07:02/54	06:00 20:03		06:37 19:05	07:01-07:30/29 07:31-08:39/68	07:14 18:10	07:12-16:24/12 16:23-17:46/83		06:56 16:27	07:43-08:31/48 14:37-15:56/79	15:53-16:01/8	07:29 16:17	08:00-08:35/35 14:43-15:46/63
18	05:27 20:39	06:08-07:02/54	06:01 20:01		06:38 19:03	07:01-07:30/29 07:32-08:40/68	07:15 18:08	07:15-07:16/29/22 16:28-17:44/76		06:57 16:26	07:44-08:32/48 14:37-15:57/80	15:53-16:00/7	07:29 16:17	08:01-08:36/35 14:44-15:47/63
19	05:28 20:39	06:08-07:02/54	06:03 19:58		06:39 19:01	07:01-07:29/28 07:31-08:39/68	07:17 18:07	16:04-16:34/30 16:32-17:43/71		06:59 16:25	07:44-08:32/48 14:37-15:56/79	15:52-15:59/7	07:30 16:17	08:02-08:37/35 14:45-15:47/62
20	05:29 20:38	06:09-07:02/53	06:04 19:56		06:41 19:00	07:02-07:28/26 07:31-08:39/68	07:18 18:05	16:00-16:37/37 16:34-17:41/67		07:00 16:24	07:44-08:32/48 14:37-15:56/79	15:53-15:59/6	07:31 16:18	08:02-08:37/35 14:45-15:47/62
21	05:30 20:38	06:09-07:02/53	06:05 19:54		06:42 18:58	07:03-07:27/24 07:31-08:38/67	07:19 18:03	15:58-16:38/40 16:35-17:39/64		07:01 16:24	07:44-08:32/48 14:36-15:55/79	15:52-15:57/5	07:31 16:18	08:03-08:38/35 14:46-15:48/62
22	05:31 20:36	06:10-07:02/52	06:06 19:53		06:43 18:56	07:04-07:26/22 07:30-07:47/17	07:21 18:02	15:56-16:40/44 16:37-17:37/60		07:02 16:23	07:44-08:32/48 14:36-15:54/78	15:52-15:54/2	07:32 16:19	08:03-08:38/35 14:46-15:48/62
23	05:32 20:35	06:10-07:02/52	06:07 19:51		06:44 18:54	07:05-07:24/19 07:30-07:51/21	07:22 18:00	15:54-16:39/45 16:34-17:35/61		07:04 16:22	07:45-08:33/48 14:36-15:54/78	15:52-15:54/2	07:32 16:19	08:04-08:39/35 14:47-15:49/62
24	05:33 20:34	06:11-07:01/50	06:09 19:49		06:45 18:52	07:07-07:23/16 07:31-07:53/22	07:23 17:58	15:53-16:45/52 16:40-17:33/53		07:05 16:21	07:45-08:33/48 14:36-15:53/77	15:51-15:54/3	07:33 16:20	08:04-08:39/35 14:47-15:49/62
25	05:34 20:33	06:11-07:01/50	06:10 19:48		06:47 18:50	07:08-07:20/12 07:30-07:54/24	07:25 17:57	15:51-16:47/56 16:41-17:32/51		07:06 16:21	07:46-08:33/47 14:36-15:54/78	15:52-15:55/3	07:33 16:20	08:04-08:39/35 14:47-15:49/62
26	05:35 20:32	06:12-07:00/48	06:11 19:46	08:09-08:13/4	06:48 18:48	07:28-07:55/27 07:55-08:35/40	07:26 17:55	15:49-16:54/65 16:43-17:30/47		07:08 16:20	07:47-08:33/46 14:36-15:53/77	15:51-15:53/2	07:33 16:21	08:05-08:40/35 14:48-15:51/63
27	05:36 20:31	06:12-07:00/48	06:12 19:44	08:01-08:20/19	06:49 18:46	07:27-07:56/29 07:56-08:33/37	07:27 17:54	15:49-16:56/67 16:45-17:29/44		07:09 16:19	07:47-08:33/46 14:36-15:53/77	15:51-15:52/1	07:34 16:22	08:05-08:41/36 14:49-15:52/64
28	05:37 20:30	06:13-06:59/46	06:13 19:42	07:58-08:24/26	06:50 18:44	07:25-07:56/31 07:56-08:32/36	07:29 17:52	16:45-17:29/44 16:47-17:27/41		07:10 16:19	07:47-08:33/46 14:36-15:52/76	15:50-15:51/1	07:34 16:22	08:05-08:41/36 14:49-15:53/64
29	05:38 20:29	06:14-06:58/44	06:15 19:41	07:55-08:27/32	06:51 18:43	07:25-07:57/32 07:57-08:32/35	07:30 17:51	15:47-17:10/83 16:47-17:26/39		07:11 16:18	07:48-08:34/46 14:37-15:52/75	15:50-15:51/1	07:34 16:23	08:05-08:42/37 14:49-15:54/65
30	05:39 20:28	06:14-06:57/43	06:16 19:39	07:52-08:29/37	06:53 18:41	07:24-07:57/33 07:57-08:30/33	07:31 17:49	15:46-17:15/89 16:48-17:24/36		07:12 16:18	07:49-08:33/44 14:37-15:51/74		07:34 16:24	08:05-08:42/37 14:49-15:55/66
31	05:41 20:26	06:15-06:56/41	06:17 19:37	07:50-08:30/40	06:17 19:37		07:33 17:48	08:59-09:12/13 15:46-17:15/89	16:49-17:23/34	16:18			07:35 16:25	08:06-08:43/37 14:49-15:56/67
Potential sun hours	472		436		376		341		288		275			
Sum of minutes with flicker	1633		373		2638		3409		3800		3244			

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 35

Licensed user:

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 25 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (111)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	07:17	15:32-16:22/50	06:36	06:57-07:32/35	06:39	07:12-07:35/23	05:48		05:14	
	16:26	17:04	16:22-16:30/8	17:43	15:27-16:25/58	19:24	17:44-18:23/39	20:00		20:34	
2	07:35	07:16	15:31-16:21/50	06:34	06:55-07:31/36	06:37	07:13-07:33/20	05:46		05:14	
	16:27	17:06	16:21-16:31/10	17:45	15:29-16:25/56	19:25	17:45-18:21/36	20:01		20:35	
3	07:35	07:15	15:31-16:22/51	06:32	06:53-07:31/38	06:35	07:14-07:31/17	05:45		05:13	
	16:28	17:07	16:21-16:31/10	17:46	15:30-16:23/53	19:26	17:47-18:19/32	20:02		20:36	
4	07:35	07:14	15:29-16:21/52	06:31	06:51-07:30/39	06:33	07:17-07:29/12	05:43		05:13	
	16:29	17:08	16:19-16:32/13	17:47	15:31-16:22/51	19:27	17:48-18:17/29	20:04		20:37	
5	07:35	07:12	15:29-16:20/51	06:29	06:49-07:29/40	06:32	17:51-18:15/24	05:42		05:12	
	16:30	17:10	16:18-16:35/17	17:49	15:32-16:20/48	19:29		20:05		20:38	
6	07:35	07:11	15:28-16:18/50	06:27	06:48-07:29/41	06:30	17:54-18:11/17	05:40		05:12	
	16:31	17:11	16:16-16:36/20	17:50	15:34-16:19/45	19:30		20:06		20:38	
7	07:34	07:10	15:27-16:30/63	06:25	06:46-07:28/42	06:28	18:00-18:04/4	05:39		05:11	
	16:32	17:13	16:30-16:37/7	17:51	15:36-16:17/41	19:31		20:07		20:39	
8	07:34	07:09	15:27-16:30/63	07:23	07:44-08:27/43	06:26		05:38		05:11	
	16:33	17:14	16:30-16:38/8	18:53	16:37-17:15/38	19:32		20:08		20:40	
9	07:34	07:07	15:27-16:30/63	07:22	07:42-08:25/43	06:24		05:36		05:11	
	16:34	17:16	16:30-16:39/9	18:54	16:39-17:13/34	19:34		20:10		20:41	
10	07:34	07:06	15:26-16:28/62	07:20	07:40-08:23/43	06:23		05:35		05:11	
	16:35	17:17	16:28-16:39/11	18:55	16:42-17:10/28	19:35		20:11		20:41	
11	07:33	07:04	15:26-16:27/61	07:18	07:38-08:21/43	06:21		05:34		05:10	
	16:36	17:18	16:26-16:40/14	18:57	16:46-17:05/19	19:36		20:12		20:42	
12	07:33	07:03	15:25-16:24/59	07:16	07:37-08:19/42	06:19		05:33		05:10	
	16:37	17:20	16:23-16:40/17	18:58	16:54-16:58/4	19:37		20:13		20:42	
13	07:32	07:02	15:25-16:40/75	07:14	07:35-08:00/25	06:17		05:31		05:10	
	16:39	17:21		18:59	07:47-08:16/29	19:39		20:14		20:43	
14	07:32	07:00	15:24-16:40/76	07:13	07:33-08:00/27	06:15		05:30		05:10	
	16:40	17:23		19:01	07:47-08:15/28	19:40		20:16		20:44	
15	07:32	06:59	15:24-16:40/76	07:11	07:31-08:01/30	06:14		05:29		05:10	
	16:41	17:24		19:02	07:48-08:14/26	19:41		20:17		20:44	
16	07:31	06:57	15:24-16:39/75	07:09	07:29-08:01/32	06:12		05:28		05:10	
	16:42	17:25		19:03	07:48-08:12/24	19:42		20:18		20:44	
17	07:30	06:56	15:24-16:39/75	07:07	07:27-08:01/34	06:10		05:27		05:10	
	16:44	17:27		19:05	07:48-08:10/22	19:44		20:19		20:45	
18	07:30	06:54	15:24-16:38/74	07:05	07:25-08:00/35	06:08		05:26		05:10	
	16:45	17:28		19:06	07:48-08:08/20	19:45		20:20		20:45	
19	07:29	06:52	15:23-16:37/74	07:03	07:23-07:59/36	06:07		05:25		05:10	
	16:46	17:30		19:07	07:47-08:05/18	19:46		20:21		20:46	
20	07:28	06:51	15:24-16:36/72	07:01	07:22-07:59/37	06:05		05:24		05:10	
	16:47	17:31		19:08	07:48-08:04/16	19:47		20:22		20:46	
21	07:28	06:49	07:11-07:23/12	07:00	07:20-07:59/39	06:03		05:23		05:10	
	16:49	17:32	15:24-16:33/69	19:10	07:47-08:03/16	19:49		20:23		20:46	
22	07:27	06:48	07:09-07:26/17	06:58	07:18-07:54/36	06:02		05:22		05:11	
	16:50	17:34	15:25-16:30/65	19:11	07:45-08:02/17	19:50		20:25		20:46	
23	07:26	06:46	07:07-07:28/21	06:56	07:16-07:51/35	06:00		05:21		05:11	
	16:52	17:35	15:25-16:29/64	19:12	07:44-08:01/17	19:51		20:26		20:47	
24	07:25	06:44	07:05-07:29/24	06:54	07:14-07:49/35	05:58		05:20		05:11	
	16:53	17:37	15:25-16:29/64	19:13	07:42-07:59/17	19:52		20:27		20:47	
25	07:24	06:43	07:03-07:30/27	06:52	07:12-07:45/33	05:57		05:19		05:11	
	16:54	17:38	15:25-16:28/63	19:15	07:38-07:57/19	19:54		20:28		20:47	
26	07:23	06:41	07:02-07:31/29	06:50	07:11-07:49/38	05:55		05:18		05:12	
	16:56	17:39	15:26-16:28/62	19:16	07:44-07:54/10	19:55		20:29		20:47	
27	07:22	06:39	07:00-07:31/31	06:48	07:11-07:45/34	05:54		05:18		05:12	
	16:57	17:41	15:26-16:27/61	19:17	07:40-07:50/10	19:56		20:30		20:47	
28	07:21	06:38	06:58-07:31/33	06:46	07:11-07:40/29	05:52		05:17		05:13	
	16:58	17:42	15:27-16:26/59	19:19	17:41-18:27/46	19:57		20:31		20:47	
29	07:20	06:45		06:45	07:11-07:39/28	05:51		05:16		05:13	
	17:00			19:20	17:42-18:27/45	19:59		20:32		20:47	
30	07:19	06:43		06:43	07:11-07:38/27	05:49		05:15		05:13	
	17:01			19:21	17:43-18:26/43	20:00		20:33		20:47	
31	07:18	06:41		06:41	07:11-07:37/26			05:15			
	17:03			19:22	17:44-18:24/40			20:33			
Potential sun hours	286	291	2110	369	2813	404		459	466	0	0
Sum of minutes with flicker	565				253			0			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 36

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 25 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (111)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 20:47	05:42 20:25	06:18 19:35	06:54 18:39	14:55-15:58/63 15:58-16:09/11	07:13 16:17
2	05:15 20:47	05:43 20:24	06:19 19:33	06:55 18:37	14:55-15:59/64 15:59-16:08/9	07:15 16:17
3	05:15 20:47	05:44 20:23	06:20 19:31	06:56 18:35	14:57-16:00/63 16:00-16:08/8	07:16 16:17
4	05:16 20:46	05:45 20:21	06:22 19:30	06:57 18:33	14:57-16:00/63 16:00-16:07/7	07:17 16:16
5	05:16 20:46	05:46 20:20	06:23 19:28	06:59 18:31	14:58-15:48/50 15:46-16:06/20	07:18 16:16
6	05:17 20:46	05:47 20:19	06:24 19:26	07:00 18:29	14:59-15:50/51 15:48-16:04/16	07:19 16:16
7	05:18 20:45	05:48 20:17	06:25 19:24	07:01 18:28	15:00-15:52/52 15:50-16:03/13	07:20 16:16
8	05:18 20:45	05:50 20:16	06:26 19:22	07:02 18:26	15:01-15:52/51 16:08-16:55/47	07:21 16:16
9	05:19 20:45	05:51 20:15	06:27 19:20	07:04 18:24	15:01-16:01/10 16:06-16:56/50	07:22 16:16
10	05:20 20:44	05:52 20:13	06:29 19:18	07:05 18:22	15:02-15:52/50 16:04-16:57/53	07:23 16:16
11	05:21 20:44	05:53 20:12	06:30 19:17	07:06 18:20	15:03-15:53/50 16:04-16:58/55	07:24 16:16
12	05:22 20:43	05:54 20:10	06:31 19:15	07:08 18:19	15:04-16:01/7 16:02-16:58/56	07:25 16:16
13	05:22 20:43	05:55 20:09	06:32 19:13	07:09 18:17	15:04-16:01/7 16:03-16:59/59	07:26 16:16
14	05:23 20:42	05:57 20:07	06:33 19:11	07:10 18:15	15:05-15:55/46 16:00-17:00/60	07:26 16:16
15	05:24 20:41	05:58 20:06	06:35 19:09	07:11 18:13	15:05-15:54/43 15:58-17:00/62	07:27 16:16
16	05:25 20:41	05:59 20:04	06:36 19:07	07:13 18:12	15:14-15:55/41 15:57-17:00/63	07:28 16:16
17	05:26 20:40	06:00 20:02	06:37 19:05	07:14 18:10	15:14-15:55/41 15:57-17:00/63	07:29 16:17
18	05:27 20:39	06:01 20:01	06:38 19:03	07:15 18:08	15:15-15:58/3 15:56-17:00/64	07:29 16:17
19	05:28 20:38	06:03 19:58	06:39 19:01	07:17 18:06	15:15-15:57/2 15:55-17:00/65	07:30 16:17
20	05:29 20:38	06:04 19:56	06:40 18:59	07:18 18:05	15:15-15:54/23 15:55-17:03/68	07:31 16:18
21	05:30 20:37	06:05 19:54	06:42 18:58	07:19 18:03	15:15-15:53/22 15:54-17:05/71	07:31 16:18
22	05:31 20:36	06:06 19:53	06:43 18:56	07:20 18:02	15:15-15:53/21 15:54-17:07/72	07:32 16:19
23	05:32 20:35	06:07 19:51	06:44 18:54	07:22 18:00	15:15-15:53/20 15:54-17:07/73	07:32 16:19
24	05:33 20:34	06:08 19:49	06:45 18:52	07:23 17:58	15:15-15:52/18 15:54-17:09/75	07:33 16:20
25	05:34 20:33	06:10 19:47	06:46 18:50	07:24 17:57	15:15-15:51/16 15:53-17:09/76	07:33 16:20
26	05:35 20:32	06:11 19:46	06:48 18:48	07:26 17:55	15:15-15:51/14 15:54-17:10/76	07:33 16:21
27	05:36 20:31	06:12 19:44	06:49 18:46	07:27 17:54	15:15-15:50/12 15:54-17:10/76	07:34 16:22
28	05:37 20:30	06:13 19:42	06:50 18:44	07:29 17:52	15:15-15:48/8 15:54-17:10/76	07:34 16:22
29	05:38 20:29	06:14 19:40	06:51 18:42	07:30 17:51	15:15-15:48/8 15:54-16:54/60	07:34 16:23
30	05:39 20:28	06:16 19:39	06:53 18:41	07:31 17:49	15:15-15:48/8 15:54-16:57/63	07:34 16:24
31	05:40 20:26	06:17 19:37		07:33 17:48	15:15-15:48/8 15:54-16:57/63	07:35 16:25
Potential sun hours	472	436	376	341	288	275
Sum of minutes with flicker	0	0	1910	2699	1227	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 37

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 26 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (112)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:35 08:31-08:55/24 13:16-14:22/66 16:26 09:00-09:14/14	07:17 08:00-08:24/24 17:04	06:36 06:39 17:44	06:39 06:39 19:24	05:48 05:48 20:00	05:14 05:14 20:34	05:14 05:14 20:47	05:42 05:42 20:25	06:18 06:18 19:35	06:54 06:54 18:39	06:34 06:34 16:46	07:14 07:39-07:59/20 16:18 13:08-14:04/56
2	07:35 08:32-08:55/23 13:17-14:22/65 16:27 09:01-09:14/13	07:16 08:02-08:23/21 17:06	06:34 06:37 17:45	06:37 06:37 19:25	05:46 05:46 20:01	05:14 05:14 20:35	05:15 05:15 20:47	05:43 05:43 20:24	06:19 06:19 19:33	06:55 06:55 18:37	06:35 06:35 16:45	07:15 07:40-07:58/18 13:07-14:05/58 16:17 08:25-08:33/8
3	07:35 08:32-08:54/22 13:18-14:22/64 16:28 09:02-09:12/10	07:15 08:03-08:22/19 17:07	06:32 06:35 17:46	06:35 06:35 19:26	05:45 05:45 20:02	05:13 05:13 20:36	05:15 05:15 20:47	05:44 05:44 20:23	06:20 06:20 19:32	06:56 06:56 18:35	06:37 06:37 16:44	07:16 07:42-07:59/17 13:08-14:07/59 16:17 08:24-08:36/12
4	07:35 08:00-08:06/6 09:06-09:09/3 16:29 08:33-08:54/21 13:19-14:22/63	07:14 08:05-08:21/16 17:08	06:31 06:34 17:48	06:34 06:34 19:27	05:43 05:43 20:04	05:13 05:13 20:37	05:16 05:16 20:46	05:45 05:45 20:21	06:22 06:22 19:30	06:58 06:58 18:33	06:38 06:38 16:42	07:17 07:43-07:58/15 13:08-14:08/60 16:17 08:23-08:38/15
5	07:35 07:59-08:08/9 13:20-14:23/63 16:30 08:34-08:54/20	07:12 08:07-08:18/11 17:10	06:29 06:32 17:49	06:32 06:30 19:29	05:42 05:42 20:05	05:12 05:12 20:38	05:16 05:16 20:46	05:46 05:46 20:20	06:23 06:23 19:28	06:59 06:59 18:31	06:40 06:40 16:41	07:18 07:44-07:57/13 13:07-14:08/61 16:16 08:22-08:39/17
6	07:35 07:59-08:10/11 13:21-14:23/62 16:31 08:36-08:54/18	07:11 07:11 17:50	06:27 06:30 17:50	06:30 06:28 19:30	05:41 05:41 20:06	05:12 05:12 20:39	05:17 05:17 20:46	05:47 05:47 20:19	06:24 06:24 19:26	07:00 07:00 18:30	06:41 06:41 16:40	07:37-07:48/11 16:16 08:22-08:40/18
7	07:34 07:59-08:12/13 13:22-14:23/61 16:32 08:37-08:54/17	07:10 07:10 17:52	06:25 06:28 17:52	06:28 06:27 19:31	05:39 05:39 20:07	05:12 05:12 20:39	05:18 05:18 20:46	05:49 05:49 20:17	06:25 06:25 19:24	07:01 07:01 18:28	06:42 06:42 16:38	07:35-07:51/16 16:16 08:21-08:41/20
8	07:34 07:58-08:13/15 13:22-14:22/60 16:33 08:38-08:53/15	07:09 07:09 17:14	06:24 06:26 17:53	06:26 06:26 19:32	05:38 05:38 20:09	05:11 05:11 20:40	05:19 05:19 20:45	05:50 05:50 20:16	06:26 06:26 19:22	07:03 07:03 18:26	06:44 06:44 16:37	07:33-07:52/19 16:16 08:21-08:42/21 13:07-14:10/63
9	07:34 07:58-08:15/17 13:24-14:23/59 16:34 08:40-08:52/12	07:07 07:07 17:16	06:22 06:24 17:54	06:24 06:24 19:34	05:36 05:36 20:10	05:11 05:11 20:41	05:19 05:19 20:45	05:51 05:51 20:15	06:28 06:28 19:20	07:04 07:04 18:24	06:45 06:45 16:36	07:32-07:54/22 16:16 08:52-09:00/8
10	07:34 07:58-08:16/18 13:25-14:23/58 16:35 08:42-08:51/9	07:06 07:06 17:17	06:20 06:23 17:56	06:23 06:23 19:35	05:35 05:35 20:11	05:11 05:11 20:41	05:20 05:20 20:44	05:52 05:52 20:13	06:29 06:29 19:19	07:05 07:05 18:22	06:46 06:46 16:35	07:31-07:55/24 16:16 08:50-09:02/12
11	07:33 07:57-08:17/20 16:36 13:26-14:22/56	07:05 07:05 17:19	06:18 06:21 17:57	06:21 06:21 19:36	05:34 05:34 20:12	05:11 05:11 20:42	05:21 05:21 20:44	05:53 05:53 20:12	06:30 06:30 19:17	07:06 07:06 18:21	06:48 06:48 16:33	07:31-07:56/25 16:16 08:50-09:04/14
12	07:33 07:57-08:18/21 16:38 13:27-14:23/56	07:03 07:03 17:20	06:16 06:19 17:58	06:19 06:19 19:38	05:33 05:33 20:13	05:10 05:10 20:43	05:22 05:22 20:43	05:54 05:54 20:10	06:31 06:31 19:15	07:08 07:08 18:19	06:49 06:49 16:32	07:30-07:57/27 16:16 08:50-09:06/16
13	07:33 07:56-08:19/23 16:39 13:28-14:22/54	07:02 07:02 17:21	06:14 06:17 17:59	06:17 06:17 19:39	05:31 05:31 20:15	05:10 05:10 20:43	05:23 05:23 20:43	05:56 05:56 20:09	06:32 06:32 19:13	07:09 07:09 18:17	06:51 06:51 16:31	07:30-07:58/28 16:16 08:48-09:06/18
14	07:32 07:56-08:20/24 16:40 13:30-14:22/52	07:00 07:00 17:23	06:13 06:16 18:01	06:16 06:16 19:40	05:30 05:30 20:16	05:10 05:10 20:44	05:23 05:23 20:42	05:57 05:57 20:07	06:33 06:33 19:11	07:10 07:10 18:15	06:52 06:52 16:30	07:29-07:58/29 16:16 08:49-09:07/18
15	07:32 07:55-08:21/26 16:41 13:31-14:21/50	06:59 06:59 17:24	06:11 06:14 18:02	06:14 06:14 19:41	05:29 05:29 20:17	05:10 05:10 20:44	05:24 05:24 20:41	05:58 05:58 20:06	06:35 06:35 19:09	07:11 07:11 18:13	06:53 06:53 16:29	07:30-07:59/29 16:16 08:49-09:08/16
16	07:31 07:55-08:21/26 16:42 13:32-14:20/48	06:57 06:57 17:26	06:09 06:12 18:03	06:12 06:12 19:43	05:28 05:28 20:18	05:10 05:10 20:45	05:25 05:25 20:41	05:59 05:59 20:04	06:36 06:36 19:07	07:13 07:13 18:12	06:55 06:55 16:28	07:29-07:59/30 16:16 13:09-14:16/67
17	07:30 07:55-08:23/28 16:44 13:34-14:20/46	06:56 06:56 17:27	06:07 06:10 18:05	06:10 06:10 19:44	05:27 05:27 20:19	05:10 05:10 20:45	05:26 05:26 20:40	06:00 06:00 20:03	06:37 06:37 19:05	07:14 07:14 18:10	06:56 06:56 16:27	07:30-08:00/30 16:17 08:49-09:09/20
18	07:30 07:55-08:23/28 16:45 13:36-14:19/43	06:54 06:54 17:28	06:05 06:09 18:06	06:09 06:09 19:45	05:26 05:26 20:20	05:10 05:10 20:45	05:27 05:27 20:39	06:01 06:01 20:01	06:38 06:38 19:03	07:15 07:15 18:08	06:57 06:57 16:26	07:30-08:00/30 16:17 13:09-14:16/67
19	07:29 07:55-08:23/28 16:46 13:37-14:18/41	06:53 06:53 17:30	06:06 06:07 18:07	06:07 06:07 19:46	05:25 05:25 20:21	05:10 05:10 20:46	05:28 05:28 20:39	06:03 06:03 19:58	06:39 06:39 19:02	07:17 07:17 18:07	06:58 06:58 16:25	07:30-08:00/30 16:17 13:10-14:17/67
20	07:28 07:55-08:24/29 16:48 13:39-14:16/37	06:51 06:51 17:31	06:05 06:05 18:08	06:05 06:05 19:48	05:24 05:24 20:23	05:10 05:10 20:46	05:29 05:29 20:38	06:04 06:04 19:56	06:41 06:41 19:00	07:18 07:18 18:05	07:00 07:00 16:24	07:30-08:00/30 16:18 13:10-14:17/67
21	07:28 07:55-08:25/30 16:49 13:43-14:16/33	06:49 06:49 17:33	06:04 06:04 18:09	06:04 06:04 19:49	05:23 05:23 20:24	05:10 05:10 20:46	05:30 05:30 20:37	06:05 06:05 19:54	06:42 06:42 18:58	07:19 07:19 18:03	07:01 07:01 16:24	07:30-08:00/30 16:18 13:11-14:18/67
22	07:27 07:55-08:25/30 16:50 13:45-14:14/29	06:48 06:48 17:34	06:02 06:02 18:10	06:02 06:02 19:50	05:22 05:22 20:25	05:11 05:11 20:47	05:31 05:31 20:36	06:06 06:06 19:53	06:43 06:43 18:56	07:21 07:21 18:02	07:03 07:03 16:23	07:32-08:01/29 16:19 13:11-14:18/67
23	07:26 07:56-08:26/30 16:52 13:49-14:11/22	06:46 06:46 17:35	06:00 06:00 18:12	06:00 06:00 19:51	05:21 05:21 20:26	05:11 05:11 20:47	05:32 05:32 20:35	06:07 06:07 19:51	06:44 06:44 18:54	07:22 07:22 18:00	07:04 07:04 16:22	07:32-08:00/28 16:19 13:12-14:19/67
24	07:25 07:56-08:26/30 16:53 13:53-14:07/14	06:44 06:44 17:37	05:59 05:59 18:14	05:59 05:59 19:53	05:20 05:20 20:27	05:11 05:11 20:47	05:33 05:33 20:34	06:09 06:09 19:49	06:45 06:45 18:52	07:23 07:23 17:58	07:05 07:05 16:21	07:32-08:00/28 16:20 13:12-14:19/67
25	07:24 07:56-08:26/30 16:54 13:54-14:07/14	06:43 06:43 17:38	05:57 05:57 18:15	05:57 05:57 19:54	05:19 05:19 20:28	05:12 05:12 20:47	05:34 05:34 20:33	06:10 06:10 19:48	06:47 06:47 18:50	07:25 07:25 17:57	07:06 07:06 16:21	07:33-08:01/28 16:20 13:12-14:19/67
26	07:23 07:56-08:26/30 16:55 13:55-14:07/14	06:41 06:41 17:39	05:55 05:55 18:16	05:55 05:55 19:55	05:18 05:18 20:29	05:12 05:12 20:47	05:35 05:35 20:32	06:11 06:11 19:46	06:48 06:48 18:48	07:26 07:26 17:55	07:08 07:08 16:20	07:34-08:00/26 16:21 13:13-14:20/67
27	07:23 07:57-08:26/29 16:57 13:57-14:07/14	06:39 06:39 17:41	05:54 05:54 18:17	05:54 05:54 19:56	05:18 05:18 20:30	05:12 05:12 20:47	05:36 05:36 20:31	06:12 06:12 19:44	06:49 06:49 18:46	07:27 07:27 17:54	07:09 07:09 16:22	07:34-08:00/26 16:22 13:14-14:20/66
28	07:22 07:57-08:26/29 16:59 13:59-14:07/14	06:38 06:38 17:42	05:52 05:52 18:18	05:52 05:52 19:58	05:17 05:17 20:31	05:13 05:13 20:47	05:37 05:37 20:30	06:13 06:13 19:42	06:50 06:50 18:44	07:29 07:29 17:52	07:10 07:10 16:23	07:35-07:59/24 16:23 13:09-14:01/52
29	07:21 07:58-08:26/28 17:00 13:58-14:07/14	06:37 06:37 17:43	05:51 05:51 18:19	05:51 05:51 19:59	05:16 05:16 20:32	05:13 05:13 20:47	05:38 05:38 20:29	06:15 06:15 19:41	06:51 06:51 18:43	07:30 07:30 17:51	07:11 07:11 16:24	07:37-08:00/23 16:23 13:11-14:18/67
30	07:19 07:59-08:26/27 17:01 13:59-14:07/14	06:36 06:36 17:44	05:49 05:49 18:20	05:49 05:49 19:59	05:16 05:16 20:33	05:14 05:14 20:47	05:39 05:39 20:28	06:16 06:16 19:39	06:53 06:53 18:41	07:31 07:31 17:49	07:12 07:12 16:24	07:38-07:59/21 16:24 08:29-08:54/25 13:15-14:21/66
31	07:18 07:59-08:24/25 17:03 13:59-14:07/14	06:35 06:35 17:45	05:48 05:48 18:21	05:48 05:48 19:59	05:15 05:15 20:34	05:15 05:15 20:47	05:41 05:41 20:26	06:17 06:17 19:37	06:54 06:54 17:48	07:32 07:32 17:50	07:13 07:13 16:25	07:39-07:59/20 16:25 08:58-09:15/17
Potential sun hours	286	291	369	404	459	466	472	436	376	341	288	275
Sum of minutes with flicker	2083	91	0	0	0	0	0	0	0	0	1168	3262

Table layout: For each day in each month the following matrix apply

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 38

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 27 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (113)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	07:35 08:48-10:51/123 16:26 15:25-15:53/28	07:17 09:06-09:52/46 17:04 15:36-16:01/25	06:36 07:12-08:00/48 17:44	06:39 07:04-08:01/57 18:36-19:01/25 19:24 18:33-18:45/12	05:48 06:13-07:29/76 19:22-19:26/4 20:00 18:41-19:22/41	05:14 05:38-05:55/17 20:35
2	07:35 08:49-10:51/122 16:27 15:25-15:54/29	07:16 09:07-09:51/44 17:06 15:38-16:00/22	06:34 07:10-08:01/51 17:45	06:37 07:02-08:01/59 18:36-18:41/5 19:25 18:35-19:02/27	05:46 06:13-07:27/74 19:20-19:26/6 20:01 18:41-19:20/39	05:14 05:37-05:55/18 20:36
3	07:35 08:49-10:52/123 16:28 15:25-15:55/30	07:15 09:09-09:49/40 17:07 15:40-15:59/19	06:33 07:09-08:01/52 17:46	06:35 06:59-08:01/62 19:26 18:34-19:03/29	05:45 06:13-07:26/73 19:20-19:26/6 20:03 18:41-19:20/39	05:13 05:37-05:56/19 20:36
4	07:35 08:50-10:52/122 16:29 15:25-15:55/30	07:14 09:11-09:48/37 17:08 15:43-15:57/14	06:31 07:08-08:01/53 17:48	06:34 06:55-08:00/65 19:28 18:34-19:05/31	05:43 06:14-07:25/71 19:18-19:25/7 20:04 18:41-19:18/37	05:13 05:36-05:56/20 20:37
5	07:35 08:49-10:51/122 16:30 15:25-15:55/30	07:13 09:12-09:45/33 17:10 15:48-15:51/3	06:29 07:08-08:02/54 17:49	06:32 06:52-07:59/67 19:29 18:33-19:06/33	05:42 06:13-07:22/69 19:17-19:25/8 20:05 18:41-19:17/36	05:12 05:36-05:56/20 20:38
6	07:35 08:50-10:52/122 16:31 15:25-15:56/31	07:11 09:15-09:43/28 17:11	06:27 07:07-08:02/55 17:50	06:30 06:50-07:58/68 19:30 18:32-19:07/35	05:40 06:14-07:20/66 19:16-19:25/9 20:06 18:42-19:16/34	05:12 05:36-05:57/21 20:39
7	07:35 08:51-10:52/121 16:32 15:25-15:57/32	07:10 09:18-09:41/23 17:13	06:25 07:06-08:02/56 17:52	06:28 06:48-07:57/69 19:31 18:32-19:07/35	05:39 06:14-06:55/41 18:41-19:14/33 20:08 06:58-07:18/20 19:14-19:24/10	05:11 05:35-05:57/22 20:40
8	07:34 08:51-10:53/122 16:33 15:26-15:58/32	07:09 09:22-09:35/13 17:14	07:24 08:06-09:02/56 18:53	06:26 06:46-07:56/70 19:33 18:32-19:07/35	05:38 06:14-06:48/34 18:42-19:12/30 20:09 07:00-07:14/14 19:12-19:23/11	05:11 05:35-05:57/22 20:40
9	07:34 08:51-10:52/121 16:34 15:25-15:58/33	07:07 17:16	07:22 08:05-09:02/57 18:54	06:24 06:45-07:55/70 19:34 18:32-19:07/35	05:36 06:15-06:47/32 19:09-19:23/14 20:10 18:43-19:09/26	05:11 05:35-05:58/23 20:41
10	07:34 08:52-10:53/121 16:35 15:26-16:00/34	07:06 17:17	07:20 08:04-09:02/58 18:56	06:23 06:43-07:54/71 19:35 18:32-19:06/34	05:35 06:16-06:47/31 20:11 18:44-19:23/39	05:11 05:35-05:58/23 20:42
11	07:34 08:52-10:52/120 16:36 15:25-16:00/35	07:05 17:18	07:18 08:05-09:02/57 18:57	06:21 06:41-07:52/71 19:36 18:32-19:04/32	05:34 06:17-06:46/29 20:12 18:45-19:22/37	05:10 05:35-05:58/23 20:42
12	07:33 08:53-10:52/119 16:37 15:26-16:01/35	07:03 17:20	07:16 08:05-09:02/57 18:58	06:19 06:39-07:50/71 19:03-19:13/10 19:38 18:33-19:03/30	05:33 06:17-06:44/27 20:14 18:45-19:20/35	05:10 05:34-05:58/24 20:43
13	07:33 08:53-10:52/119 16:39 15:25-16:01/36	07:02 17:21	07:15 08:04-09:01/57 19:00	06:17 06:38-07:49/71 19:01-19:15/14 19:39 18:33-19:01/28	05:31 06:18-06:43/25 20:15 18:46-19:20/34	05:10 05:34-05:58/24 20:43
14	07:32 08:54-10:52/118 16:40 15:26-16:02/36	07:00 17:23	07:13 08:04-09:00/56 19:01	06:16 06:36-07:46/70 18:59-19:17/18 19:40 18:35-18:59/24	05:30 06:19-06:42/23 20:16 18:47-19:19/32	05:10 05:34-05:58/24 20:44
15	07:32 08:54-10:52/118 16:41 15:26-16:02/36	06:59 17:24	07:11 08:04-08:59/55 19:02	06:14 06:34-07:43/69 19:41 18:36-19:18/42	05:29 06:21-06:41/20 20:17 18:48-19:18/30	05:10 05:34-05:59/25 20:44
16	07:31 08:55-10:52/117 16:42 15:27-16:03/36	06:57 17:26	07:09 08:04-08:58/54 19:03	06:12 06:32-07:39/67 19:43 18:38-19:19/41	05:28 06:22-06:39/17 20:18 18:49-19:17/28	05:10 05:34-05:59/25 20:45
17	07:31 08:55-10:51/116 16:44 15:27-16:03/36	06:56 17:27	07:07 07:35-07:49/14 19:05 08:04-08:57/53	06:10 06:32-07:39/67 18:52-19:21/29 19:44 18:42-18:50/8	05:27 06:25-06:37/12 20:19 18:50-19:16/26	05:10 05:34-05:59/25 20:45
18	07:30 08:55-10:51/116 16:45 15:27-16:04/37	06:54 17:28	07:05 07:32-07:54/22 18:42-18:43/1 19:06 08:05-08:57/52	06:09 06:29-07:39/70 19:45 18:50-19:21/31	05:26 06:29-06:32/3 20:21 18:52-19:14/22	05:10 05:34-05:59/25 20:46
19	07:29 08:56-10:50/114 16:46 15:27-16:04/37	06:53 17:30	07:03 07:29-07:56/27 18:38-18:45/7 19:07 08:06-08:56/50	06:07 06:27-07:38/71 19:46 18:49-19:22/33	05:25 18:53-19:13/20 20:22	05:10 05:35-06:00/25 20:46
20	07:29 08:57-10:50/113 16:48 15:28-16:05/37	06:51 17:31	07:02 07:26-07:57/31 18:35-18:46/11 19:09 08:06-08:55/49	06:05 06:26-07:38/72 19:48 18:48-19:24/36	05:24 18:55-19:11/16 20:23	05:10 05:35-06:00/25 20:46
21	07:28 08:57-10:49/112 16:49 15:28-16:05/37	06:49 07:28-07:44/16 17:33	07:00 07:24-07:59/35 18:33-18:47/14 19:10 08:06-08:53/47	06:03 06:24-07:37/73 19:49 18:46-19:24/38	05:23 18:58-19:08/10 20:24	05:10 05:35-06:00/25 20:47
22	07:27 08:58-10:48/110 16:50 15:28-16:05/37	06:48 07:25-07:49/24 17:34	06:58 07:22-08:00/38 18:32-18:49/17 19:11 08:07-08:51/44	06:02 06:22-07:36/74 19:50 18:45-19:24/39	05:22 05:44-05:45/1 20:25	05:11 05:35-06:00/25 20:47
23	07:26 08:58-10:47/109 16:52 15:29-16:05/36	06:46 07:21-07:51/30 17:35	06:56 07:21-08:00/39 18:31-18:50/19 19:12 08:08-08:49/41	06:00 06:21-07:36/75 19:51 18:45-19:25/40	05:21 05:44-05:48/4 20:26	05:11 05:35-06:00/25 20:47
24	07:26 08:59-10:46/107 16:53 15:29-16:05/36	06:45 07:19-07:53/34 17:37	06:54 07:17-08:01/44 18:30-18:51/21 19:14 08:09-08:47/38	05:59 06:19-07:35/76 19:24-19:25/1 19:53 18:43-19:24/41	05:20 05:43-05:49/6 20:27	05:11 05:36-06:01/25 20:47
25	07:25 09:00-09:57/57 15:30-16:05/35 16:54 09:59-10:45/46	06:43 07:18-07:55/37 17:38	06:52 07:15-08:01/46 18:29-18:52/23 19:15 08:10-08:45/35	05:57 06:18-07:35/77 19:25-19:26/1 19:54 18:43-19:25/42	05:19 05:42-05:50/8 20:28	05:11 05:36-06:01/25 20:47
26	07:24 09:00-09:56/56 15:30-16:05/35 16:56 10:01-10:43/42	06:41 07:16-07:57/41 17:39	06:50 07:12-08:02/50 18:29-18:53/24 19:16 08:12-08:42/30	05:55 06:16-07:34/78 19:24-19:26/2 19:55 18:42-19:24/42	05:18 05:41-05:51/10 20:29	05:12 05:36-06:01/25 20:47
27	07:23 09:01-09:56/55 15:31-16:05/34 16:57 10:03-10:42/39	06:40 07:14-07:58/44 17:41	06:48 07:11-08:03/52 18:30-18:55/25 19:17 08:15-08:40/25 18:54-18:55/1	05:54 06:15-07:33/78 19:24-19:27/3 19:56 18:42-19:24/42	05:18 05:41-05:52/11 20:30	05:12 05:37-06:02/25 20:47
28	07:22 09:02-09:56/54 15:32-16:04/32 16:58 10:05-10:39/34	06:38 07:13-07:59/46 17:42	06:47 07:09-08:03/54 18:30-18:55/25 19:19 08:18-08:36/18 18:53-18:56/3	05:52 06:14-07:32/78 19:23-19:26/3 19:58 18:41-19:23/42	05:17 05:40-05:53/13 20:31	05:13 05:37-06:02/25 20:47
29	07:21 09:03-09:55/52 15:33-16:04/31 17:00 10:08-10:37/29		06:45 07:08-08:03/55 18:52-18:57/5 19:20 18:30-18:54/24	05:51 06:14-07:31/77 19:23-19:27/4 19:59 18:42-19:23/41	05:16 05:39-05:53/14 20:32	05:13 05:38-06:02/24 20:47
30	07:20 09:04-09:54/50 15:34-16:03/29 17:01 10:11-10:34/23		06:43 07:07-08:02/55 18:40-18:59/19 19:21 18:31-18:50/19	05:49 06:13-07:30/77 19:22-19:26/4 20:00 18:41-19:22/41	05:15 05:39-05:54/15 20:33	05:13 05:38-06:02/24 20:47
31	07:19 09:06-09:54/48 15:36-16:03/27 17:03 10:16-10:28/12		06:41 07:05-08:02/57 18:38-19:00/22 19:23 18:32-18:48/16		05:15 05:38-05:54/16 20:34	
Potential sun hours	286	291	369	404	459	466
Sum of minutes with flicker	4463	619	2258	3244	1574	698

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 39

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdoc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 27 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (113)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 05:39-06:03/24	05:42 06:27-06:55/28	06:18 06:40-07:51/71	06:54 07:43-08:40/57	06:34	07:14 08:34-10:34/120
2	20:47	20:25 18:55-19:31/36	19:35 18:31-19:03/32	18:39	16:46	16:17 15:07-15:42/35
3	05:15 05:39-06:02/23	05:43 06:26-06:56/30	06:19 06:41-07:52/71	06:55 07:43-08:40/57	06:36	07:15 08:35-10:36/121
4	20:47	20:24 18:54-19:32/38	19:33 18:30-19:04/34	18:37	16:45	16:17 15:09-15:43/34
5	05:15 05:40-06:03/23	05:44 06:25-06:56/31	06:20 06:42-07:52/70	06:56 07:43-08:40/57	06:37 08:51-09:06/15	07:16 08:35-10:36/121
6	20:47	20:23 18:53-19:32/39	19:32 18:29-19:04/35	18:35	16:44	16:17 15:09-15:43/34
7	05:16 05:40-06:02/22	05:45 06:25-06:58/33	18:53-19:21/28	06:22 06:44-07:54/70	06:58 07:43-08:40/57	06:38 08:48-09:11/23
8	20:46	20:22 07:14-07:22/8	19:21-19:34/13	19:30 18:30-19:04/34	18:33	16:42
9	05:16 05:41-06:03/22	05:46 06:24-07:02/38	18:53-19:23/30	06:23 06:45-07:54/69	06:59 07:42-08:39/57	06:40 08:44-09:13/29
10	20:46	20:20 07:09-07:26/17	19:23-19:34/11	19:28 18:29-19:04/35	18:31	16:41
11	05:17 05:42-06:03/21	05:47 06:24-07:05/41	18:52-19:25/33	06:24 06:46-07:54/68	07:00 07:43-08:39/56	06:41 08:43-09:16/33
12	20:46	20:19 07:06-07:29/23	19:25-19:34/9	19:26 18:28-19:03/35	18:30	16:40 15:17-15:23/6
13	05:18 05:42-06:03/21	05:48 06:23-07:31/68	19:26-19:34/8	06:25 06:47-07:54/67	07:01 07:43-08:38/55	06:42 08:41-09:18/37
14	20:46	20:18 18:51-19:26/35	19:24 18:28-19:01/33	18:28	16:38	15:13-15:27/14
15	05:18 05:43-06:03/20	05:50 06:23-07:32/69	19:27-19:35/8	06:26 06:49-07:54/65	07:03 07:43-08:37/54	06:44 08:40-09:20/40
16	20:45	20:16 18:51-19:27/36	19:22 18:28-18:59/31	18:26	16:37	15:11-15:30/19
17	05:19 05:44-06:03/19	05:51 06:22-07:34/72	19:28-19:35/7	06:28 06:52-07:54/62	07:04 07:42-08:36/54	06:45 08:38-09:22/44
18	20:45	20:15 18:50-19:28/38	19:21 18:28-18:57/29	18:24	16:36	15:09-15:31/22
19	05:20 05:44-06:02/18	05:52 06:22-07:35/73	19:29-19:34/5	06:29 06:55-07:54/59	07:05 07:44-08:36/52	06:47 08:38-09:24/46
20	20:45	20:13 18:50-19:29/39	19:19 18:28-18:55/27	18:22	16:35	15:07-15:32/25
21	05:21 05:45-06:03/18	05:53 06:21-07:36/75	19:29-19:34/5	06:30 06:57-07:55/58	07:06 07:44-08:35/51	06:48 08:36-09:24/48
22	20:44	20:12 18:49-19:29/40	19:17 18:26-18:37/11	18:21	16:33	09:47-10:00/13
23	05:22 05:46-06:03/17	05:54 06:21-07:37/76	19:30-19:34/4	06:31 06:57-07:54/57	07:08 07:44-08:33/49	06:49 08:35-09:25/50
24	20:44	20:10 18:49-19:30/41	19:15 18:24-18:40/16	18:19	16:32	09:42-10:05/23
25	05:22 05:47-06:03/16	05:56 06:22-07:38/76	19:31-19:35/4	06:32 06:58-07:54/56	07:09 07:45-08:33/48	06:51 08:35-09:27/52
26	20:43	20:09 18:50-19:31/41	19:13 18:22-18:41/19	18:17	16:31	09:39-10:09/30
27	05:23 05:48-06:02/14	05:57 06:22-07:39/77	19:31-19:34/3	06:34 06:58-07:53/55	07:10 07:46-08:31/45	06:52 08:34-09:27/53
28	20:42	20:07 18:49-19:31/42	19:11 18:20-18:44/24	18:15	16:30	09:37-10:12/35
29	05:24 05:49-06:02/13	05:58 06:22-07:40/78	19:31-19:34/3	06:35 06:59-07:52/53	07:12 07:47-08:29/42	06:53 08:34-09:29/55
30	20:42	20:06 18:49-19:31/42	19:09 08:08-08:24/16	18:13	16:29	09:35-10:15/40
31	05:25 05:49-06:01/12	05:59 06:22-07:40/78	19:31-19:33/2	06:36 06:59-07:51/52	07:13 07:49-08:28/39	06:55 08:33-09:29/56
32	20:41	20:04 18:49-19:31/42	19:07 08:04-08:28/24	18:12	16:28	09:34-10:16/42
33	05:26 05:50-06:00/10	06:00 06:23-07:40/77	19:31-19:33/2	06:37 07:01-07:50/49	07:14 07:50-08:26/36	06:56 08:34-09:31/57
34	20:40	20:03 18:49-19:31/42	19:05 08:01-08:30/29	18:10	16:27	09:33-10:19/46
35	05:27 05:51-06:00/9	06:01 06:24-07:41/77	19:30-19:32/2	06:38 07:02-07:50/48	07:15 07:51-08:24/33	06:57 08:33-10:20/107
36	20:40	20:01 18:49-19:30/41	19:03 07:59-08:33/34	18:08	16:26	15:03-15:39/36
37	05:28 05:52-05:59/7	06:03 06:25-07:41/76	19:30-19:31/1	06:39 07:04-07:49/45	07:17 07:54-08:22/28	06:59 08:33-10:22/109
38	20:39	20:00 18:49-19:30/41	19:02 07:57-08:34/37	18:07	16:25	15:04-15:40/36
39	05:29 05:53-05:58/5	06:04 06:27-07:42/75	06:41 07:07-07:47/40	18:17-18:36/19	07:18 07:56-08:18/22	07:00 08:33-10:23/110
40	20:38	19:56 18:49-19:30/41	19:00 07:55-08:35/40	18:05	16:24	15:03-15:40/37
41	05:30 05:54-05:56/2	06:05 06:28-07:42/74	06:42 07:07-07:45/38	18:17-18:34/17	07:19 08:01-08:14/13	07:01 08:32-10:24/112
42	20:37	19:55 18:51-19:30/39	18:58 07:53-08:36/43	18:03	16:24	15:03-15:40/37
43	05:31 19:13-19:14/1	06:06 06:29-07:42/73	06:43 07:08-07:44/36	18:18-18:32/14	07:21	07:03 08:33-10:26/113
44	20:36	19:53 18:51-19:29/38	18:56 07:51-08:37/46	18:02	16:23	15:04-15:41/37
45	05:32 19:07-19:20/13	06:07 06:30-07:42/72	06:44 07:10-07:42/32	18:18-18:30/12	07:22	07:04 08:33-10:27/114
46	20:35	19:51 18:52-19:27/35	18:54 07:51-08:39/48	18:00	16:22	15:04-15:41/37
47	05:33 19:05-19:22/17	06:09 06:31-07:42/71	06:45 07:11-07:40/29	18:21-18:29/8	07:23	07:05 08:32-10:28/116
48	20:34	19:49 18:53-19:26/33	18:52 07:49-08:39/50	17:58	16:21	15:04-15:41/37
49	05:34 19:03-19:24/21	06:10 06:32-07:41/69	06:47 07:13-07:37/24	18:23-18:27/4	07:25	07:07 08:33-10:29/116
50	20:33	19:48 18:53-19:24/31	18:50 07:48-08:39/51	17:57	16:21	15:05-15:41/36
51	05:35 06:37-06:45/8	06:11 06:34-07:41/67	18:54-19:22/28	06:48 07:16-07:33/17	07:26	07:08 08:33-10:30/117
52	20:32 19:02-19:26/24	19:46 18:43-18:52/9	18:48 07:47-08:40/53	17:55	16:20	15:05-15:41/36
53	05:36 06:34-06:48/14	06:12 06:34-07:42/68	06:49 07:23-07:25/2	17:54	07:27	07:09 08:33-10:31/118
54	20:31 19:00-19:27/27	19:44 18:39-19:20/41	18:46 07:46-08:40/54	17:54	16:19	15:05-15:41/36
55	05:37 06:32-06:50/18	06:13 06:36-07:46/70	06:50 07:46-08:41/55	17:52	07:29	07:10 08:34-10:32/118
56	20:30 18:59-19:28/29	19:42 18:38-19:20/42	18:45	17:52	16:19	15:06-15:42/36
57	05:38 06:31-06:52/21	06:15 06:37-07:47/70	19:00-19:18/18	06:52 07:45-08:41/56	07:30	07:11 08:34-10:33/119
58	20:29 18:58-19:29/31	19:41 18:36-19:00/24	18:43	17:51	16:18	15:06-15:42/36
59	05:39 06:29-06:53/24	06:16 06:38-07:49/71	19:02-19:16/14	06:53 07:44-08:40/56	07:32	07:13 08:34-10:33/119
60	20:28 18:57-19:30/33	19:39 18:34-19:02/28	18:41	17:49	16:18	15:07-15:42/35
61	05:40 06:28-06:54/26	06:17 06:39-07:50/71	19:03-19:13/10		07:33	
62	20:27 18:56-19:31/35	19:37 18:33-19:03/30			17:48	
Potential sun hours	472	436	376	341	288	274
Sum of minutes with flicker	678	3344	2699	962	3137	4657

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 40

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 28 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (114)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January	February	March	April	May	June
---------	----------	-------	-------	-----	------

1	07:35	08:12-08:45/33	15:26-15:57/31	07:17	07:47-08:07/20	15:54-16:15/21	06:36		06:39	07:19-07:56/37	05:48	05:14
	16:26	14:00-15:47/107		17:04	15:16-15:51/35	16:05-16:34/29	17:44		19:24		20:00	20:34
2	07:35	08:12-08:44/32	15:26-15:58/32	07:16	07:45-08:09/24	15:58-16:20/22	06:34		06:37	07:19-07:55/36	05:46	05:14
	16:27	14:01-15:47/106		17:06	15:17-15:50/33	16:14-16:34/20	17:45		19:25		20:01	20:35
3	07:35	08:13-08:45/32	15:26-15:59/33	07:15	07:44-08:11/27	16:00-16:21/21	06:32		06:35	07:19-07:54/35	05:45	05:13
	16:28	14:02-15:47/105		17:07	15:19-15:49/30	16:16-16:35/19	17:46		19:26		20:02	20:36
4	07:35	08:13-08:45/32	15:26-16:00/34	07:14	07:43-08:13/30	16:02-16:18/16	06:31		06:34	07:20-07:54/34	05:43	05:13
	16:29	14:03-15:47/104		17:08	15:21-15:47/26	16:13-16:34/21	17:48		19:27		20:04	20:37
5	07:35	08:14-08:46/32	15:26-16:01/35	07:12	07:41-08:13/32	16:05-16:19/14	06:29		06:32	07:21-07:52/31	05:42	05:12
	16:30	14:05-15:47/102		17:10	15:23-15:46/23	16:15-16:34/19	17:49		19:29		20:05	20:38
6	07:35	08:15-08:46/31	15:26-16:03/37	07:11	07:41-08:15/34	16:06-16:19/13	06:27		06:30	07:22-07:50/28	05:40	05:12
	16:31	14:06-15:47/101		17:11	15:27-15:43/16	16:16-16:34/18	17:50		19:30		20:06	20:39
7	07:34	08:15-08:47/32	15:26-16:04/38	07:10	07:41-08:16/35	16:06-16:26/20	06:25		06:28	07:23-07:48/25	05:39	05:12
	16:32	14:07-15:47/100		17:13	15:32-15:37/5	16:25-16:33/8	17:52		19:31		20:07	20:39
8	07:34	08:15-08:46/31	15:25-16:04/39	07:09	07:39-08:16/37	16:22-16:32/10	07:24		06:26	07:24-07:46/22	05:38	05:11
	16:33	14:08-15:46/98		17:14	16:07-16:23/16		18:53		19:32		20:09	20:40
9	07:34	08:16-08:47/31	14:47-15:01/14	07:07	07:39-08:17/38		07:22		06:24	07:27-07:44/17	05:36	05:11
	16:34	14:09-15:44/95	15:25-16:06/41	17:16	16:08-16:32/24		18:54		19:34		20:10	20:41
10	07:34	08:17-08:47/30	14:50-15:00/10	07:06	07:38-08:17/39		07:20		06:23	07:30-07:39/9	05:35	05:11
	16:35	14:11-15:44/93	15:25-16:08/43	17:17	16:09-16:30/21		18:56		19:35		20:11	20:41
11	07:33	08:18-08:47/29	15:23-16:08/45	07:04	07:38-08:18/40		07:18		06:21		05:34	05:10
	16:36	14:12-15:39/87		17:18	16:11-16:29/18		18:57		19:36		20:12	20:42
12	07:33	08:19-08:47/28	15:22-16:10/48	07:03	07:24-07:33/9	16:13-16:26/13	07:16		06:19		05:33	05:10
	16:37	14:15-15:32/77		17:20	07:37-08:18/41		18:58		19:37		20:13	20:43
13	07:33	08:19-08:47/28	15:18-16:11/53	07:02	07:23-07:36/13	16:19-16:22/3	07:14		06:17		05:31	05:10
	16:39	14:16-15:22/66		17:21	07:38-08:19/41		18:59		19:39		20:15	20:43
14	07:32	08:20-08:47/27	14:39-16:06/87	07:00	07:21-07:38/17		07:13		06:15		05:30	05:10
	16:40	14:19-14:38/19	15:42-16:13/31	17:23	07:38-08:18/40		19:01		19:40		20:16	20:44
15	07:32	08:21-08:46/25	14:39-16:05/86	06:59	07:20-07:40/20		07:11		06:14		05:29	05:10
	16:41	14:22-14:36/14	15:41-16:13/32	17:24	07:40-08:19/39		19:02		19:41		20:17	20:44
16	07:31	08:22-08:46/24	14:40-16:04/84	06:57	07:18-07:40/22		07:09		06:12		05:28	05:10
	16:42	14:28-14:30/2	15:40-16:14/34	17:26	07:40-08:18/38		19:03		19:42		20:18	20:45
17	07:30	08:23-08:46/23	15:40-16:16/36	06:56	07:17-07:41/24		07:07	07:36-07:48/12	06:10		05:27	05:10
	16:44	14:42-16:03/81		17:27	07:41-08:19/38		19:05		19:44		20:19	20:45
18	07:30	08:24-08:45/21	15:39-16:18/39	06:54	07:16-07:41/25		07:05	07:32-07:51/19	06:09		05:26	05:10
	16:45	14:43-15:57/74		17:28	07:41-08:18/37		19:06		19:45		20:20	20:45
19	07:29	08:26-08:44/18	15:37-16:19/42	06:53	07:16-07:42/26		07:03	07:30-07:54/24	06:07		05:25	05:10
	16:46	14:44-15:49/65		17:30	07:42-08:18/36		19:07		19:46		20:21	20:46
20	07:28	08:27-08:43/16	15:35-16:20/45	06:51	07:16-07:42/26		07:01	07:28-07:56/28	06:05		05:24	05:10
	16:48	14:45-15:37/52		17:31	07:42-08:17/35		19:08		19:48		20:22	20:46
21	07:28	08:30-08:42/12	15:42-16:22/40	06:49	07:16-07:41/25		07:00	07:26-07:57/31	06:03		05:23	05:10
	16:49	14:48-15:47/59		17:33	07:41-08:16/35		19:10		19:49		20:24	20:46
22	07:27	08:35-08:38/3	15:41-16:23/42	06:48	07:16-07:41/25		06:58	07:25-07:57/32	06:02		05:22	05:11
	16:50	14:50-15:43/53		17:34	07:41-08:16/35		19:11		19:50		20:25	20:47
23	07:26	14:52-15:40/48		06:46	07:17-07:39/22		06:56	07:23-07:58/35	06:00		05:21	05:11
	16:52	15:39-16:25/46		17:35	07:41-08:14/33		19:12		19:51		20:26	20:47
24	07:25	14:55-15:37/42		06:44	07:17-07:38/21		06:54	07:22-07:58/36	05:59		05:20	05:11
	16:53	15:36-16:26/50		17:37	07:41-08:13/32		19:14		19:53		20:27	20:47
25	07:24	14:59-15:08/9	16:03-16:28/25	06:43	07:18-07:38/20		06:52	07:21-07:58/37	05:57		05:19	05:11
	16:54	15:09-16:16/67		17:38	07:43-08:12/29		19:15		19:54		20:28	20:47
26	07:23	15:10-16:20/70		06:41	07:19-07:36/17		06:50	07:20-07:58/38	05:55		05:18	05:12
	16:56	16:08-16:29/21		17:39	07:44-08:09/25		19:16		19:55		20:29	20:47
27	07:23	15:11-16:20/69		06:39	07:21-07:33/12		06:48	07:21-07:59/38	05:54		05:18	05:12
	16:57	16:08-16:31/23		17:41	07:46-08:07/21		19:17		19:56		20:30	20:47
28	07:22	15:12-16:19/67		06:38	07:25-07:28/3		06:47	07:20-07:59/39	05:52		05:17	05:13
	16:59	16:07-16:32/25		17:42	07:49-08:03/14		19:19		19:57		20:31	20:47
29	07:20	15:13-16:18/65					06:45	07:20-07:58/38	05:51		05:16	05:13
	17:00	16:06-16:34/28					19:20		19:59		20:32	20:47
30	07:19	07:54-08:01/7	16:04-16:34/30				06:43	07:19-07:58/39	05:49		05:16	05:14
	17:01	15:14-16:16/62					19:21		20:00		20:33	20:47
31	07:18	07:49-08:04/15	16:01-16:34/33				06:41	07:19-07:57/38			05:15	
	17:03	15:14-16:13/59					19:22				20:34	
Potential sun hours				286			369		404		459	
Sum of minutes with flicker				3745	1751	484	274	0	0			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 28 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (114)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November	December			
1	05:14 20:47	05:42 20:25	06:18 19:35	06:54 18:39		06:34 16:46	07:08-07:47/39 15:39-16:00/21	07:14 16:18	08:00-08:29/29 13:54-15:21/87	15:05-15:50/45
2	05:15 20:47	05:43 20:24	06:19 19:33	06:55 18:37		06:35 16:45	07:09-07:47/38 15:37-15:51/14	07:15 16:17	07:59-08:29/30 13:53-15:26/93	14:32-14:41/9 15:07-15:50/43
3	05:15 20:47	05:44 20:23	06:20 19:32	06:56 18:35		06:37 16:44	07:09-07:46/37 15:53-16:02/9 15:37-15:54/17	07:16 16:17	08:00-08:31/31 13:53-15:27/94	14:30-14:44/14 15:08-15:49/41
4	05:16 20:46	05:45 20:21	06:22 19:30	06:58 18:33		06:38 16:42	07:09-07:45/36 15:35-15:56/21 15:00-15:08/8	07:17 16:17	08:00-08:31/31 13:53-15:31/98	15:10-15:50/40 15:11-15:49/38
5	05:16 20:46	05:46 20:20	06:23 19:28	06:59 18:31		06:40 16:41	07:11-07:44/33 15:35-15:50/15 14:56-15:13/17	07:18 16:16	08:01-08:32/31 13:52-15:32/100	15:11-15:49/38 15:12-15:49/37
6	05:17 20:46	05:47 20:19	06:24 19:26	07:00 18:30		06:41 16:40	07:11-07:43/32 15:34-15:49/15 14:53-15:16/23	07:19 16:16	08:01-08:32/31 13:52-15:33/101	15:12-15:49/37 15:13-15:48/35
7	05:18 20:46	05:49 20:17	06:25 19:24	07:01 18:28		06:42 16:38	07:13-07:43/30 15:32-15:49/17 14:51-15:18/27	07:20 16:16	08:01-08:33/32 13:52-15:34/102	15:13-15:48/35 15:14-15:48/34
8	05:19 20:45	05:50 20:16	06:26 19:22	07:03 18:26		06:44 16:37	07:14-07:41/27 15:30-15:51/21 14:49-15:20/31	07:21 16:16	08:01-08:33/32 13:51-15:35/104	15:14-15:48/34 15:15-15:48/33
9	05:19 20:45	05:51 20:15	06:28 19:20	07:04 18:24		06:45 16:36	07:16-07:40/24 15:28-15:51/23 14:48-15:21/33	07:22 16:16	08:02-08:34/32 13:51-15:36/105	15:15-15:48/33 15:16-15:48/32
10	05:20 20:44	05:52 20:13	06:29 19:19	07:05 18:22		06:46 16:35	07:18-07:38/20 15:24-15:46/22 14:46-15:22/36	07:23 16:16	08:02-08:34/32 13:51-15:37/106	15:16-15:48/32 15:17-15:48/31
11	05:21 20:44	05:53 20:12	06:30 19:17	07:06 18:20		06:48 16:33	07:21-07:36/15 15:33-16:06/33 14:46-15:45/59	07:24 16:16	08:03-08:35/32 13:52-15:38/106	15:17-15:48/31 15:17-15:48/31
12	05:22 20:43	05:54 20:10	06:31 19:15	07:08 18:19		06:49 16:32	07:25-07:31/6 15:35-16:05/30 14:45-15:47/62	07:25 16:16	08:03-08:35/32 13:52-15:38/106	15:17-15:48/31 15:17-15:47/30
13	05:22 20:43	05:56 20:09	06:32 19:13	07:09 18:17	08:25-08:33/8	06:50 16:31	14:44-15:50/66 15:38-16:06/28	07:26 16:16	08:03-08:35/32 13:51-15:38/107	15:17-15:47/30 15:18-15:48/30
14	05:23 20:42	05:57 20:07	06:33 19:11	07:10 18:15	07:56-08:04/8	06:52 16:30	14:43-15:51/68 15:39-16:04/25	07:26 16:16	08:03-08:36/33 13:51-15:39/108	15:18-15:48/30 15:19-15:48/29
15	05:24 20:41	05:58 20:06	06:35 19:09	07:11 18:13	07:53-08:07/14	06:53 16:29	14:44-15:53/69 15:41-16:04/23	07:27 16:16	08:04-08:36/32 13:52-15:39/107	15:19-15:48/29 15:20-15:49/29
16	05:25 20:41	05:59 20:04	06:36 19:07	07:13 18:12	07:50-08:08/18	06:55 16:28	14:43-15:53/70 15:41-16:02/21	07:28 16:16	08:05-08:37/32 13:52-15:40/108	15:20-15:49/29 15:20-15:48/28
17	05:26 20:40	06:00 20:03	06:37 19:05	07:14 18:10	07:49-08:09/20	06:56 16:27	14:32-14:41/9 15:36-16:01/25 14:42-15:49/67	07:29 16:17	08:04-08:37/33 13:52-15:40/108	15:20-15:48/28 15:21-15:49/28
18	05:27 20:39	06:01 20:01	06:38 19:03	07:15 18:08	07:48-08:10/22	06:57 16:26	14:29-15:11/42 15:10-16:00/50	07:29 16:17	08:05-08:38/33 13:53-15:41/108	15:21-15:49/28 15:22-15:49/27
19	05:28 20:38	06:03 19:58	06:39 19:01	07:17 18:07	07:48-08:11/23	06:59 16:25	14:26-15:14/48 15:13-15:59/46	07:30 16:17	08:06-08:39/33 13:53-15:42/109	15:22-15:49/27 15:22-15:49/27
20	05:29 20:38	06:04 19:56	06:41 19:00	07:18 18:05	07:47-08:12/25	07:00 16:24	08:10-08:12/2 15:16-15:59/43 14:25-15:18/53	07:31 16:18	08:06-08:38/32 13:53-15:42/109	15:22-15:49/27 15:23-15:50/27
21	05:30 20:37	06:05 19:54	06:42 18:58	07:19 18:03	07:46-08:12/26	07:01 16:24	08:05-08:17/12 15:17-15:57/40 14:23-15:22/59	07:31 16:18	08:07-08:39/32 13:54-15:43/109	15:23-15:50/27 15:23-15:50/27
22	05:31 20:36	06:06 19:53	06:43 18:56	07:21 18:02	07:46-08:12/26	07:02 16:23	08:03-08:18/15 15:11-15:56/45 14:22-15:13/51	07:32 16:19	08:07-08:39/32 13:54-15:43/109	15:23-15:50/27 15:24-15:51/27
23	05:32 20:35	06:07 19:51	06:44 18:54	07:22 18:00	07:46-08:12/26	07:04 16:22	08:03-08:21/18 15:14-15:56/42 14:21-15:26/65	07:32 16:19	08:08-08:40/32 13:55-15:44/109	15:24-15:51/27 15:24-15:51/27
24	05:33 20:34	06:09 19:49	06:45 18:52	07:23 17:58	07:47-08:12/25	07:05 16:21	08:01-08:22/21 15:16-15:55/39 14:20-15:34/74	07:33 16:20	08:08-08:41/33 13:55-15:44/109	15:24-15:51/27 15:24-15:52/28
25	05:34 20:33	06:10 19:48	06:47 18:50	07:25 17:57	07:47-08:11/24	07:06 16:21	08:01-08:24/23 15:17-15:54/37 14:20-15:40/80	07:33 16:20	08:08-08:41/33 13:56-15:44/108	15:24-15:52/28 15:25-15:53/28
26	05:35 20:32	06:11 19:46	06:48 18:48	07:26 17:55	07:48-08:10/22	07:08 16:20	08:01-08:25/24 15:19-15:54/35 14:19-15:43/84	07:33 16:21	08:09-08:42/33 13:57-15:45/108	15:25-15:53/28 15:25-15:53/28
27	05:36 20:31	06:12 19:44	06:49 18:46	07:27 17:54	07:50-08:09/19	07:09 16:19	08:00-08:26/26 14:19-15:44/85 14:01-14:15/14	07:34 16:22	08:10-08:42/32 13:57-15:45/108	15:25-15:53/28 15:25-15:54/29
28	05:37 20:30	06:13 19:42	06:50 18:44	07:29 17:52	07:51-08:08/17	07:10 16:19	08:00-08:26/26 14:18-15:45/87 13:58-14:17/19	07:34 16:22	08:10-08:42/32 13:57-15:45/108	15:25-15:54/29 15:25-15:54/29
29	05:38 20:29	06:15 19:41	06:51 18:43	07:30 17:51	07:53-08:05/12 16:47-16:53/6	07:11 16:18	08:00-08:28/28 14:59-15:52/53 13:57-15:03/66	07:34 16:23	08:10-08:43/33 13:58-15:46/108	15:25-15:54/29 15:25-15:55/30
30	05:39 20:28	06:16 19:39	06:53 18:41	07:31 17:49	07:54-08:03/9 16:42-16:56/14	07:12 16:18	08:00-08:28/28 15:03-15:51/48 13:56-15:13/77	07:34 16:24	08:10-08:43/33 13:59-15:46/107	15:25-15:55/30 15:25-15:56/31
31	05:41 20:26	06:17 19:37		07:33 17:48	08:08-08:48/40 16:41-16:59/18			07:35 16:25	08:11-08:43/32 13:59-15:46/107	15:25-15:56/31 15:25-15:56/31
Potential sun hours	472	436	376	341		288	2914	4619		
Sum of minutes with flicker	0	0	769	999		288	2914	4619		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 42

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 29 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (115)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January	February	March	April	May	June
---------	----------	-------	-------	-----	------

1	07:35	10:06-10:38/32	15:00-15:20/20	07:17	14:13-14:51/38	15:36-16:17/41	06:36		06:39	07:00-07:30/30	05:48	05:14
	16:26	13:52-15:02/70		17:04	14:48-15:35/47		17:43		19:24		20:00	20:34
2	07:35	10:07-10:37/30	15:01-15:21/20	07:16	14:15-15:35/80		06:34		06:37	07:00-07:28/28	05:46	05:14
	16:27	13:53-15:03/70		17:06	15:36-16:18/42		17:45		19:25		20:01	20:35
3	07:35	10:08-10:37/29	15:01-15:22/21	07:15	14:17-15:35/78		06:32		06:35	07:01-07:27/26	05:45	05:13
	16:28	13:53-15:03/70		17:07	15:36-16:19/43		17:46		19:26		20:02	20:36
4	07:35	10:10-10:36/26	15:02-15:22/20	07:14	14:18-15:34/76		06:31		06:33	07:02-07:26/24	05:43	05:13
	16:29	13:54-15:04/70		17:08	15:35-16:19/44		17:47		19:27		20:04	20:37
5	07:35	10:11-10:36/25	15:02-15:23/21	07:12	14:20-15:34/74		06:29		06:32	07:03-07:25/22	05:42	05:12
	16:30	13:54-15:04/70		17:10	15:35-16:20/45		17:49		19:29		20:05	20:38
6	07:35	10:13-10:35/22	15:03-15:24/21	07:11	14:23-15:34/71		06:27		06:30	07:04-07:22/18	05:40	05:12
	16:31	13:55-15:05/70		17:11	15:35-16:21/46		17:50		19:30		20:06	20:39
7	07:34	10:16-10:34/18	15:04-15:25/21	07:10	14:26-15:32/66		06:25		06:28	07:07-07:19/12	05:39	05:11
	16:32	13:56-15:06/70		17:13	15:34-16:21/47		17:51		19:31		20:07	20:39
8	07:34	10:18-10:31/13	15:03-15:25/22	07:09	14:30-15:32/62		07:24		06:26		05:38	05:11
	16:33	13:55-15:05/70		17:14	15:34-16:21/47		18:53		19:32		20:09	20:40
9	07:34	10:24-10:26/2	15:04-15:26/22	07:07	14:32-15:32/60		07:22		06:24		05:36	05:11
	16:34	13:56-15:06/70		17:16	15:35-16:22/47		18:54		19:34		20:10	20:41
10	07:34	13:57-15:07/70		07:06	14:33-15:30/57		07:20		06:23		05:35	05:11
	16:35	15:05-15:27/22		17:17	15:34-16:21/47		18:55		19:35		20:11	20:41
11	07:33	13:57-15:06/69		07:04	14:34-15:29/55		07:18		06:21		05:34	05:10
	16:36	15:04-15:28/24		17:18	15:35-16:22/47		18:57		19:36		20:12	20:42
12	07:33	13:58-15:07/69		07:03	14:35-15:28/53		07:16		06:19		05:33	05:10
	16:37	15:05-15:29/24		17:20	15:34-16:21/47		18:58		19:37		20:13	20:42
13	07:33	13:58-15:07/69		07:02	14:37-15:27/50		07:14		06:17		05:31	05:10
	16:39	15:05-15:29/24		17:21	15:35-16:22/47		18:59		19:39		20:15	20:43
14	07:32	13:59-15:07/68		07:00	14:38-15:24/46		07:13		06:15		05:30	05:10
	16:40	15:05-15:30/25		17:23	15:35-16:21/46		19:01		19:40		20:16	20:44
15	07:32	13:59-15:07/68		06:59	14:41-15:22/41		07:11		06:14		05:29	05:10
	16:41	15:05-15:30/25		17:24	15:36-16:21/45		19:02		19:41		20:17	20:44
16	07:31	13:59-15:07/68		06:57	14:43-15:19/36		07:09		06:12		05:28	05:10
	16:42	15:05-15:31/26		17:25	15:36-16:20/44		19:03		19:42		20:18	20:45
17	07:30	14:00-15:08/68		06:56	14:46-15:14/28	15:37-16:20/43	07:07		06:10		05:27	05:10
	16:44	15:06-15:32/26		17:27	15:14-15:18/4		19:05		19:44		20:19	20:45
18	07:30	14:01-15:07/66		06:54	14:48-15:15/27		07:05		06:08		05:26	05:10
	16:45	15:05-15:32/27		17:28	15:37-16:19/42		19:06		19:45		20:20	20:45
19	07:29	14:01-15:07/66		06:52	14:52-15:10/18		07:03		06:07		05:25	05:10
	16:46	15:05-15:32/27		17:30	15:38-16:18/40		19:07		19:46		20:21	20:46
20	07:28	14:01-15:07/66		06:51	15:40-16:17/37		07:01	07:22-07:27/5	06:05		05:24	05:10
	16:48	15:05-15:33/28		17:31			19:08		19:47		20:22	20:46
21	07:28	14:03-15:07/64	15:51-15:58/7	06:49	15:40-16:16/36		07:00	07:20-07:29/9	06:03		05:23	05:10
	16:49	15:05-15:34/29		17:32			19:10		19:49		20:24	20:46
22	07:27	14:03-15:07/64	15:47-16:02/15	06:48	15:43-16:15/32		06:58	07:18-07:30/12	06:02		05:22	05:11
	16:50	15:05-15:34/29		17:34			19:11		19:50		20:25	20:47
23	07:26	14:04-15:06/62	15:45-16:05/20	06:46	15:44-16:13/29		06:56	07:16-07:31/15	06:00		05:21	05:11
	16:52	15:04-15:34/30		17:35			19:12		19:51		20:26	20:47
24	07:25	14:05-15:06/61	15:43-16:07/24	06:44	15:46-16:11/25		06:54	07:14-07:31/17	05:58		05:20	05:11
	16:53	15:04-15:35/31		17:37			19:13		19:52		20:27	20:47
25	07:24	14:05-15:06/61	15:42-16:09/27	06:43	15:48-16:08/20		06:52	07:12-07:32/20	05:57		05:19	05:11
	16:54	15:03-15:35/32		17:38			19:15		19:54		20:28	20:47
26	07:23	14:06-15:05/59	15:41-16:11/30	06:41	15:53-16:04/11		06:50	07:10-07:32/22	05:55		05:18	05:12
	16:56	15:02-15:35/33		17:39			19:16		19:55		20:29	20:47
27	07:22	14:07-15:04/57	15:40-16:12/32	06:39			06:48	07:08-07:32/24	05:54		05:18	05:12
	16:57	15:01-15:35/34		17:41			19:17		19:56		20:30	20:47
28	07:22	14:08-15:03/55	15:39-16:14/35	06:38			06:46	07:07-07:32/25	05:52		05:17	05:13
	16:58	15:00-15:36/36		17:42			19:19		19:57		20:31	20:47
29	07:20	14:10-15:02/52	15:38-16:15/37				06:45	07:05-07:32/27	05:51		05:16	05:13
	17:00	14:59-15:36/37					19:20		19:59		20:32	20:47
30	07:19	14:11-15:00/49	15:38-16:16/38				06:43	07:03-07:31/28	05:49		05:15	05:13
	17:01	14:57-15:36/39					19:21		20:00		20:33	20:47
31	07:18	14:11-14:56/45	15:36-16:16/40				06:41	07:01-07:30/29			05:15	
	17:03	14:53-15:35/42					19:22				20:34	
Potential sun hours	286		291		369		404		459		466	
Sum of minutes with flicker	3280		2107		233		160		0		0	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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EDR217 Montgomery St.
US-SYRACUSE, NY 13202
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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 29 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (115)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14	05:42	06:18		06:54		06:54		06:34	14:02-15:00/58	07:14	13:39-14:48/69
	20:47	20:25	19:35		18:39		18:39		16:46	15:04-15:51/47	16:17	14:46-15:10/24
2	05:15	05:43	06:19		06:55		06:55		06:35	14:01-15:01/60	07:15	13:39-14:49/70
	20:47	20:24	19:33		18:37		18:37		16:45	15:03-15:51/48	16:17	14:47-15:10/23
3	05:15	05:44	06:20		06:56		06:56		06:37	13:59-15:02/63	07:16	13:39-14:49/70
	20:47	20:23	19:31		18:35		18:35		16:43	15:04-15:51/47	16:17	14:47-15:09/22
4	05:16	05:45	06:22		06:58		06:58		06:38	13:55-15:02/67	07:17	10:03-10:16/13 14:48-15:10/22
	20:46	20:21	19:30		18:33		18:33		16:42	15:04-15:50/46	16:16	13:40-14:50/70
5	05:16	05:46	06:23	07:04-07:16/12	06:59		06:59		06:40	13:53-15:04/71	07:18	10:01-10:19/18 14:49-15:10/21
	20:46	20:20	19:28		18:31		18:31		16:41	15:05-15:51/46	16:16	13:41-14:51/70
6	05:17	05:47	06:24	07:01-07:18/17	07:00		07:00		06:41	13:50-15:05/75	07:19	10:00-10:21/21 14:49-15:10/21
	20:46	20:19	19:26		18:29		18:29		16:39	15:05-15:50/45	16:16	13:41-14:51/70
7	05:18	05:48	06:25	06:58-07:20/22	07:01		07:01		06:42	13:48-15:06/78	07:20	09:59-10:23/24 14:49-15:10/21
	20:46	20:17	19:24		18:28		18:28		16:38	15:06-15:50/44	16:16	13:41-14:51/70
8	05:18	05:50	06:26	06:56-07:20/24	07:03		07:03		06:44	13:46-15:05/79	07:21	09:58-10:24/26 14:50-15:11/21
	20:45	20:16	19:22		18:26		18:26		16:37	15:06-15:49/43	16:16	13:42-14:52/70
9	05:19	05:51	06:27	06:55-07:21/26	07:04		07:04		06:45	13:45-15:06/81	07:22	09:57-10:26/29 14:50-15:11/21
	20:45	20:15	19:20		18:24		18:24		16:36	15:07-15:49/42	16:16	13:42-14:52/70
10	05:20	05:52	06:29	06:53-07:21/28	07:05		07:05		06:46	13:44-14:23/39 15:07-15:48/41	07:23	09:57-10:27/30 14:51-15:11/20
	20:44	20:13	19:18		18:22		18:22		16:35	14:20-15:06/46	16:16	13:43-14:53/70
11	05:21	05:53	06:30	06:52-07:22/30	07:06		07:06		06:48	13:43-14:29/46 15:08-15:48/40	07:24	09:57-10:29/32 14:51-15:11/20
	20:44	20:12	19:17		18:20		18:20		16:33	14:26-15:07/41	16:16	13:43-14:53/70
12	05:22	05:54	06:31	06:53-07:23/30	07:08		07:08		06:49	13:42-14:31/49 15:09-15:47/38	07:25	09:57-10:30/33 14:52-15:12/20
	20:43	20:10	19:15		18:19		18:19		16:32	14:28-15:07/39	16:16	13:44-14:54/70
13	05:22	05:55	06:32	06:54-07:22/28	07:09		07:09		06:50	13:41-14:34/53 15:10-15:47/37	07:26	09:56-10:30/34 14:52-15:11/19
	20:43	20:09	19:13		18:17		18:17		16:31	14:31-15:08/37	16:16	13:44-14:54/70
14	05:23	05:57	06:33	06:55-07:22/27	07:10		07:10		06:52	13:40-14:35/55 15:11-15:45/34	07:26	09:56-10:31/35 14:52-15:11/19
	20:42	20:07	19:11		18:15		18:15		16:30	14:32-15:08/36	16:16	13:44-14:54/70
15	05:24	05:58	06:35	06:56-07:22/26	07:11		07:11		06:53	13:40-14:37/57 15:13-15:45/32	07:27	09:56-10:32/36 14:53-15:12/19
	20:41	20:06	19:09		18:13		18:13		16:29	14:34-15:08/34	16:16	13:45-14:55/70
16	05:25	05:59	06:36	06:57-07:21/24	07:13	16:22-16:37/15			06:55	13:39-14:38/59 15:14-15:43/29	07:28	09:57-10:33/36 14:54-15:12/18
	20:41	20:04	19:07		18:12		18:12		16:28	14:35-15:08/33	16:16	13:46-14:56/70
17	05:26	06:00	06:37	06:58-07:20/22	07:14	16:19-16:41/22			06:56	13:38-14:39/61 15:15-15:42/27	07:29	09:56-10:33/37 13:46-14:55/69
	20:40	20:03	19:05		18:10		18:10		16:27	14:36-15:08/32	16:17	11:22-11:26/4 14:53-15:12/19
18	05:27	06:01	06:38	07:00-07:20/20	07:15	16:16-16:43/27			06:57	13:39-14:40/61 15:17-15:41/24	07:29	09:57-10:34/37 13:46-14:56/70
	20:39	20:01	19:03		18:08		18:08		16:26	14:38-15:09/31	16:17	11:21-11:28/7 14:54-15:13/19
19	05:28	06:03	06:39	07:01-07:19/18	07:17	16:14-16:44/30			06:59	13:38-14:40/62 15:19-15:39/20	07:30	09:58-10:35/37 13:47-14:57/70
	20:38	19:58	19:01		18:07		18:07		16:25	14:38-15:08/30	16:17	11:20-11:30/10 14:55-15:13/18
20	05:29	06:04	06:41	07:02-07:17/15	07:18	16:13-16:46/33			07:00	13:38-14:42/64 15:22-15:37/15	07:31	09:57-10:35/38 13:47-14:57/70
	20:38	19:56	19:00		18:05		18:05		16:24	14:40-15:09/29	16:18	11:20-11:31/11 14:55-15:13/18
21	05:30	06:05	06:42	07:03-07:16/13	07:19	16:11-16:47/36			07:01	13:38-14:42/64 15:26-15:33/7	07:31	09:58-10:37/39 13:48-14:58/70
	20:37	19:54	18:58		18:03		18:03		16:24	14:40-15:09/29	16:18	11:20-11:32/12 14:56-15:14/18
22	05:31	06:06	06:43	07:04-07:14/10	07:21	15:28-15:37/9			07:02	13:37-14:43/66	07:32	09:58-10:37/39 13:48-14:58/70
	20:36	19:53	18:56		18:02	16:10-16:48/38			16:23	14:41-15:09/28	16:19	11:20-11:32/12 14:56-15:14/18
23	05:32	06:07	06:44	07:05-07:11/6	07:22	15:21-15:42/21			07:04	13:38-14:44/66	07:32	09:59-10:37/38 13:49-14:59/70
	20:35	19:51	18:54		18:00	16:08-16:49/41			16:22	14:42-15:09/27	16:19	11:22-11:33/11 14:57-15:15/18
24	05:33	06:09	06:45	07:07-07:08/1	07:23	15:17-15:45/28			07:05	13:38-14:44/66	07:33	10:00-10:37/37 13:49-14:59/70
	20:34	19:49	18:52		17:58	16:07-16:49/42			16:21	14:42-15:09/27	16:20	11:22-11:33/11 14:57-15:15/18
25	05:34	06:10	06:47		07:25	15:15-15:46/31 16:07-16:50/43			07:06	13:38-14:46/68	07:33	10:00-10:37/37 13:49-14:59/70
	20:33	19:48	18:50		17:57	15:46-15:48/2			16:21	14:44-15:09/25	16:20	11:23-11:32/9 14:57-15:16/19
26	05:35	06:11	06:48		07:26	15:12-15:49/37			07:08	13:38-14:46/68	07:33	10:01-10:38/37 13:50-15:00/70
	20:32	19:46	18:48		17:55	16:05-16:50/45			16:20	14:44-15:10/26	16:21	11:26-11:32/6 14:58-15:17/19
27	05:36	06:12	06:49		07:27	15:10-15:53/43			07:09	13:38-14:46/68	07:34	10:02-10:38/36 14:58-15:17/19
	20:31	19:44	18:46		17:54	16:05-16:51/46			16:19	14:44-15:09/25	16:22	13:51-15:00/69
28	05:37	06:13	06:50		07:29	15:08-15:54/46			07:10	13:38-14:47/69	07:34	10:02-10:38/36 14:59-15:18/19
	20:30	19:42	18:44		17:52	16:04-16:51/47			16:19	14:45-15:09/24	16:22	13:51-15:01/70
29	05:38	06:14	06:51		07:30	15:07-15:57/50			07:11	13:39-14:48/69	07:34	10:03-10:38/35 14:59-15:18/19
	20:29	19:41	18:42		17:51	16:05-16:51/46			16:18	14:46-15:10/24	16:23	13:51-15:01/70
30	05:39	06:16	06:53		07:31	15:05-15:58/53			07:12	13:39-14:48/69	07:34	10:04-10:38/34 14:59-15:19/20
	20:28	19:39	18:41		17:49	16:04-16:51/47			16:18	14:46-15:10/24	16:24	13:51-15:01/70
31	05:40	06:17			07:33	15:04-15:59/55					07:35	10:04-10:38/34 15:00-15:19/19
	20:26	19:37			17:48	16:04-16:52/48					16:25	13:52-15:02/70
Potential sun hours	472	436	376		341				288		275	
Sum of minutes with flicker	0	0	399		981				3262		3729	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 3 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (89)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35	07:17	08:01-08:32/31	06:36	06:57-07:47/50	06:39	18:37-19:01/24	05:48	18:55-19:25/30	05:14	
	16:26	17:04	15:31-16:16/45	17:44	15:27-17:14/107	19:24		20:00	19:17-19:35/18	20:35	
2	07:35	07:16	08:02-08:32/30	06:34	06:56-07:45/49	06:37	18:36-19:02/26	05:46	18:56-19:23/27	05:14	
	16:27	17:06	15:30-16:18/48	17:45	15:28-17:14/106	19:25		20:01	19:13-19:38/25	20:36	
3	07:35	07:15	08:03-08:32/29	06:33	06:55-07:42/47	06:35	18:35-19:03/28	05:45	18:57-19:36/39	05:13	
	16:28	17:07	15:30-16:20/50	17:46	15:28-17:13/105	19:26		20:03	19:36-19:39/3	20:36	
4	07:35	07:14	07:38-07:49/11	06:31	06:54-07:39/45	06:34	18:35-19:05/30	05:43	18:58-19:35/37	05:13	
	16:29	17:08	08:04-08:32/28	17:48	15:29-17:13/104	19:28		20:04	19:35-19:40/5	20:37	
5	07:35	07:13	07:35-07:51/16	06:29	06:50-07:30/40	06:32	18:35-19:06/31	05:42	19:00-19:34/34	05:12	
	16:30	17:10	08:05-08:30/25	17:49	15:32-17:13/101	19:29	19:05-19:06/1	20:05	19:33-19:41/8	20:38	
6	07:35	07:11	07:34-07:53/19	06:27	06:48-07:29/41	06:30	18:34-19:07/33	05:40	19:02-19:34/32	05:12	
	16:31	17:11	08:06-08:29/23	17:50	15:33-17:12/99	19:30	19:05-19:07/2	20:06	19:34-19:43/9	20:39	
7	07:35	07:10	07:33-07:55/22	06:25	06:46-07:27/41	06:28	18:34-19:08/34	05:39	19:03-19:33/30	05:11	
	16:32	17:13	08:08-08:28/20	17:52	15:34-17:11/97	19:31	19:04-19:08/4	20:08	19:33-19:43/10	20:40	
8	07:34	07:09	07:31-07:56/25	07:24	07:44-08:25/41	06:26	18:34-19:09/35	05:38	19:05-19:32/27	05:11	
	16:33	17:14	08:10-08:26/16	18:53	16:36-18:10/94	19:33		20:09	19:31-19:44/13	20:40	
9	07:34	07:07	07:31-07:57/26	07:22	07:42-08:22/40	06:24	18:35-19:11/36	05:36	19:06-19:31/25	05:11	
	16:34	17:16	08:13-08:23/10	18:54	16:39-18:08/89	19:34		20:10	19:30-19:46/16	20:41	
10	07:34	07:06	07:29-07:58/29	07:20	07:40-08:19/39	06:23	18:36-19:12/36	05:35	19:08-19:30/22	05:11	
	16:35	17:17	15:24-16:25/61	18:56	16:41-17:06/25	19:35		20:11	19:29-19:47/18	20:42	
11	07:34	07:05	07:26-07:58/32	07:18	07:39-08:18/39	06:21	18:36-19:13/37	05:34	19:09-19:29/20	05:10	
	16:36	17:18	15:24-16:52/88	18:57	16:47-17:02/15	19:36		20:12	19:28-19:48/20	20:42	
12	07:33	07:03	07:25-07:59/34	07:16	07:38-08:16/38	06:19	18:37-19:14/37	05:33	19:10-19:26/16	05:10	
	16:37	17:20	15:24-16:54/90	18:58	17:10-17:45/35	19:38		20:14	19:25-19:48/23	20:43	
13	07:33	07:02	07:23-07:59/36	07:15	07:37-08:13/36	06:17	18:39-19:15/36	05:31	19:13-19:26/13	05:10	
	16:39	17:21	15:23-16:54/91	18:59	17:12-17:43/31	19:39		20:15	19:26-19:48/22	20:43	
14	07:32	07:00	07:23-08:00/37	07:13	07:37-08:04/27	06:15	18:44-18:48/4	05:30	19:18-19:22/4	05:10	
	16:40	17:23	15:24-16:55/91	19:01	08:05-08:08/3	19:40	18:45-19:17/32	20:16	19:24-19:48/24	20:44	
15	07:32	06:59	07:21-07:59/38	07:11	07:37-08:04/27	06:14	18:46-19:18/32	05:29	19:24-19:48/24	05:10	
	16:41	17:24	15:23-16:55/92	19:02	17:16-17:37/21	19:41		20:17		20:44	
16	07:31	06:57	07:21-08:00/39	07:09	07:37-08:03/26	06:12	18:46-19:19/33	05:28	19:25-19:48/23	05:10	
	16:42	17:26	15:22-16:55/93	19:03	17:20-17:33/13	19:43	19:18-19:19/1	20:18		20:45	
17	07:31	06:56	07:20-07:59/39	07:07	07:37-08:02/25	06:10	18:48-19:21/33	05:27	19:25-19:47/22	05:10	20:17-20:18/1
	16:44	17:27	15:23-16:56/93	19:05		19:44	19:18-19:21/3	20:19		20:45	
18	07:30	06:54	07:19-07:58/39	07:05	07:38-08:02/24	06:09	18:48-19:21/33	05:26	19:26-19:47/21	05:10	20:16-20:18/2
	16:45	17:28	15:22-16:57/95	19:06		19:45	19:17-19:21/4	20:21		20:46	
19	07:29	06:53	07:15-07:58/43	07:03	07:39-08:00/21	06:07	18:49-19:22/33	05:25	19:26-19:46/20	05:10	20:16-20:18/2
	16:46	17:30	15:23-16:57/94	19:07		19:46	19:14-19:22/8	20:22		20:46	
20	07:29	06:51	07:12-07:57/45	07:02	07:40-07:58/18	06:05	18:51-19:24/33	05:24	19:27-19:45/18	05:10	20:17-20:19/2
	16:48	17:31	15:23-16:56/93	19:09		19:48	19:14-19:24/10	20:23		20:46	
21	07:28	06:49	07:10-07:56/46	07:00	07:42-07:55/13	06:03	18:51-19:25/34	05:23	19:28-19:44/16	05:10	20:17-20:19/2
	16:49	17:33	15:23-17:06/103	19:10		19:49	19:12-19:25/13	20:24		20:47	
22	07:27	06:48	07:09-07:55/46	06:58	07:46-07:50/4	06:02	18:50-19:26/36	05:22	19:29-19:43/14	05:11	20:17-20:19/2
	16:50	17:34	15:23-17:09/106	19:11		19:50	19:10-19:26/16	20:25		20:47	
23	07:26	06:46	07:07-07:53/46	06:56		06:00	18:51-19:26/35	05:21	19:31-19:43/12	05:11	20:17-20:19/2
	16:52	17:35	15:23-17:10/107	19:12		19:51	19:08-19:28/20	20:26		20:47	
24	07:25	06:45	07:05-07:51/46	06:54		05:59	18:50-19:24/34	05:20	19:32-19:41/9	05:11	20:18-20:20/2
	16:53	17:37	15:23-17:11/108	19:14		19:53	19:07-19:28/21	20:27		20:47	
25	07:25	06:43	07:04-07:51/47	06:52		05:57	18:51-19:27/36	05:19	19:35-19:38/3	05:11	20:19-20:20/1
	16:54	17:38	15:25-17:12/107	19:15		19:54	19:13-19:30/17	20:28		20:47	
26	07:24	06:41	07:02-07:50/48	06:50		05:55	18:51-19:24/33	05:18		05:12	
	16:56	17:39	15:25-17:13/108	19:16		19:55	19:09-19:31/22	20:29		20:47	
27	07:23	06:40	07:00-07:49/49	06:48		05:54	18:52-19:30/38	05:18		05:12	
	16:57	17:41	15:25-17:13/108	19:17		19:56	19:23-19:32/9	20:30		20:47	
28	07:22	06:38	06:59-07:49/50	06:47	18:46-18:55/9	05:52	18:52-19:28/36	05:17		05:13	
	16:58	17:42	15:25-17:13/108	19:19		19:58	19:21-19:33/12	20:31		20:47	
29	07:21	06:45	18:43-18:57/14	06:45	18:43-18:57/14	05:51	18:53-19:27/34	05:16		05:13	
	17:00	19:20		19:20		19:59	19:20-19:35/15	20:32		20:47	
30	07:20	06:43	18:41-18:59/18	06:43	18:41-18:59/18	05:49	18:54-19:26/32	05:15		05:13	
	17:01	19:21		19:21		20:00	19:18-19:34/16	20:33		20:47	
31	07:19	06:41	18:39-19:00/21	06:41	18:39-19:00/21			05:15			
	17:03	19:22		19:22				20:34			
Potential sun hours	286	291	3622	1973	1058	738	466	16			
Sum of minutes with flicker	865	3622	1973	1058	738	466	16				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 3 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (89)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14	05:42 19:20-19:37/17	06:18 18:35-19:12/37	06:54 07:17-07:54/37	06:34 06:58-07:27/29 15:35-16:20/45	07:14 07:44-08:02/18
2	05:15	05:43 19:18-19:39/21	06:19 18:34-19:10/36	06:55 07:16-07:55/39 16:47-17:24/37	06:36 07:01-07:27/26 14:55-15:54/59	07:15 07:47-08:02/15
3	05:15	05:44 19:17-19:40/23	06:20 18:32-19:08/36	06:56 07:18-07:57/39 16:46-17:26/40	06:37 07:01-07:25/24 14:55-15:53/58	07:16 07:48-08:01/13
4	05:16	05:45 19:16-19:42/26	06:22 18:31-19:06/35	06:58 07:19-07:58/39	06:38 07:03-07:25/22 14:57-15:53/56	07:17 07:50-07:59/9
5	05:16	05:46 19:15-19:43/28	06:23 18:31-19:05/34	06:59 07:20-08:00/40	06:40 07:04-07:23/19 14:57-15:53/56	07:18 07:53-07:56/3
6	05:17	05:47 19:13-19:44/31	06:24 18:30-19:03/33	07:00 07:22-08:03/41	06:41 07:06-07:22/16 14:58-15:52/54	07:19
7	05:18	05:48 19:11-19:44/33	06:25 18:30-19:01/31	07:01 07:23-08:04/41	06:42 07:08-07:19/11 14:59-15:51/52	07:20
8	05:18	05:50 19:09-19:44/35	06:26 18:29-18:59/30	07:03 07:24-08:04/40	06:44 07:34-08:02/28 15:51-16:04/13	07:21
9	05:19	05:51 19:07-19:44/37	06:28 18:29-18:57/28	07:04 07:29-08:05/36 16:05-17:48/103	06:45 07:33-08:03/30 15:49-15:59/10	07:22
10	05:20	05:52 19:06-19:44/38	06:29 18:29-18:55/26	07:05 07:30-08:16/46	06:46 07:33-08:04/31	07:23
11	05:21	05:53 19:04-19:32/28	06:30 18:29-18:53/24	07:06 07:29-08:18/49	06:48 07:32-08:04/32	07:24
12	05:22	05:54 19:03-19:33/30	06:31 18:31-18:52/21	07:08 07:29-08:19/50	06:49 07:32-08:04/32	07:25
13	05:22	05:56 19:02-19:35/33	06:32 18:32-18:50/18	07:09 07:31-08:21/50	06:51 07:32-08:05/33	07:26
14	05:23	05:57 19:01-19:35/34	06:34 18:33-18:48/15	07:10 07:32-08:21/49	06:52 07:32-08:05/33	07:27
15	05:24	05:58 18:59-19:36/37	06:35 18:35-18:45/10	07:12 07:33-08:22/49 17:10-17:15/5	06:53 07:33-08:06/33	07:27
16	05:25	05:59 18:58-19:36/38	06:36	07:13 07:35-08:23/48	06:55 07:32-08:06/34	07:28
17	05:26	06:00 18:57-19:32/35	06:37	07:14 07:36-08:23/47	06:56 07:33-08:06/33	07:29
18	05:27	06:01 18:57-19:32/35	06:38	07:15 07:37-08:23/46	06:57 07:33-08:06/33	07:30
19	05:28 19:43-19:50/7	06:03 18:56-19:31/35	06:39	07:17 07:39-08:25/46	06:59 07:34-08:06/32	07:30
20	05:29 19:41-19:52/11	06:04 18:55-19:30/35	06:41	07:18 07:40-08:26/46	07:00 07:34-08:06/32	07:31
21	05:30 19:40-19:53/13	06:05 18:56-19:31/35	06:42	07:19 07:42-08:28/46 16:58-17:24/26	07:01 07:34-08:06/32	07:31
22	05:31 19:39-19:54/15	06:06 18:56-19:30/34	06:43 07:27-07:39/12	07:21 07:43-08:28/45 17:26-17:36/10	07:03 07:36-08:06/30	07:32
23	05:32 19:38-19:55/17	06:07 18:54-19:28/34	06:44 07:25-07:42/17	07:22 07:48-08:28/40 17:26-17:34/8	07:04 07:36-08:05/29	07:32
24	05:33 19:37-19:56/19	06:09 18:52-19:26/34	06:45 07:23-07:43/20	07:23 07:50-08:29/39 17:26-17:32/6	07:05 07:37-08:05/28	07:33
25	05:34 19:36-19:57/21	06:10 18:51-19:24/33	06:47 07:21-07:44/23	07:25 07:50-08:29/39 17:26-17:28/2	07:07 07:38-08:05/27	07:33
26	05:35 19:36-19:57/21	06:11 18:49-19:22/33	06:48 07:20-07:44/24	07:26 07:51-08:30/39	07:08 07:39-08:05/26	07:34
27	05:36 19:35-19:58/23	06:12 18:48-19:20/32	06:49 07:19-07:44/25	07:27 07:51-08:29/38	07:09 07:39-08:04/25	07:34
28	05:37 19:35-19:58/23	06:13 18:47-19:20/33	06:50 07:19-07:45/26	07:29 07:52-08:29/37	07:10 07:41-08:04/23	07:34
29	05:38 19:35-19:58/23	06:15 18:44-18:49/5	06:52 07:18-07:45/27	07:30 07:53-08:29/36	07:11 07:42-08:04/22	07:34
30	05:39 19:36-19:59/24	06:16 18:40-19:16/36	06:53 07:17-07:52/35	07:31 07:54-08:28/34	07:13 07:43-08:03/20	07:35
31	05:40 19:33-19:59/26	06:17 18:37-19:14/37	06:54 16:52-17:22/30	07:33 07:56-08:28/32 16:35-17:22/47	07:14 07:44-08:03/19	07:35
Potential sun hours	472	436	376	341	288	274
Sum of minutes with flicker	263	1176	705	4291	1878	58

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 30 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (116)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:35	07:17 07:48-08:13/25	06:36 07:05-07:30/25	06:39	05:48	05:14	05:14	05:42	06:18	06:54	06:34 07:26-07:37/11	07:14
16:26	17:04	17:43	17:43	19:24	20:00	20:34	20:47	20:25	19:35	18:39	16:46	16:18
2	07:35	07:16 07:49-08:14/25	06:34 07:05-07:29/24	06:37	05:46	05:14	05:15	05:43	06:19	06:55	06:35 07:24-07:40/16	07:15
16:27	17:06	17:45	17:45	19:25	20:01	20:35	20:47	20:24	19:33	18:37	16:45	16:17
3	07:35	07:15 07:49-08:14/25	06:32 07:04-07:28/24	06:35	05:45	05:13	05:15	05:44	06:20	06:56	06:37 07:22-07:41/19	07:16
16:28	17:07	17:46	17:46	19:26	20:02	20:36	20:47	20:23	19:31	18:35	16:44	16:17
4	07:35	07:14 07:50-08:14/24	06:31 07:04-07:28/24	06:33	05:43	05:13	05:16	05:45	06:22	06:58	06:38 07:21-07:41/20	07:17
16:29	17:08	17:48	17:48	19:27	20:04	20:37	20:46	20:21	19:30	18:33	16:42	16:17
5	07:35	07:12 07:50-08:13/23	06:29 07:05-07:26/21	06:32	05:42	05:12	05:16	05:46	06:23	06:59 07:47-07:57/10	06:40 07:21-07:43/22	07:18
16:30	17:10	17:49	17:49	19:29	20:05	20:38	20:46	20:20	19:28	18:31	16:41	16:16
6	07:35	07:11 07:51-08:13/22	06:27 07:06-07:26/20	06:30	05:40	05:12	05:17	05:47	06:24	07:00 07:44-07:59/15	06:41 07:20-07:43/23	07:19
16:31	17:11	17:50	17:50	19:30	20:06	20:38	20:46	20:19	19:26	18:30	16:40	16:16
7	07:34	07:10 07:52-08:12/20	06:25 07:07-07:24/17	06:28	05:39	05:12	05:18	05:49	06:25	07:01 07:43-08:01/18	06:42 07:20-07:44/24	07:20
16:32	17:13	17:52	17:52	19:31	20:07	20:39	20:46	20:17	19:24	18:28	16:38	16:16
8	07:34	07:09 07:53-08:11/18	07:24 08:09-08:22/13	06:26	05:38	05:11	05:19	05:50	06:26	07:03 07:41-08:02/21	06:44 07:19-07:44/25	07:21
16:33	17:14	18:53	18:53	19:32	20:09	20:40	20:45	20:16	19:22	18:26	16:37	16:16
9	07:34	07:07 07:55-08:10/15	07:22 08:12-08:18/6	06:24	05:36	05:11	05:19	05:51	06:28	07:04 07:40-08:02/22	06:45 07:20-07:45/25	07:22
16:34	17:16	18:54	18:54	19:34	20:10	20:41	20:45	20:15	19:20	18:24	16:36	16:16
10	07:34	07:06 07:56-08:07/11	07:20	06:23	05:35	05:11	05:20	05:52	06:29	07:05 07:40-08:03/23	06:46 07:19-07:44/25	07:23
16:35	17:17	18:55	18:55	19:35	20:11	20:41	20:44	20:13	19:18	18:22	16:35	16:16
11	07:33	07:04	07:18	06:21	05:34	05:10	05:21	05:53	06:30	07:06 07:39-08:03/24	06:48 07:20-07:45/25	07:24
16:36	17:18	18:57	18:57	19:36	20:12	20:42	20:44	20:12	19:17	18:20	16:33	16:16
12	07:33	07:03	07:16	06:19	05:33	05:10	05:22	05:54	06:31	07:08 07:38-08:02/24	06:49 07:20-07:44/24	07:25
16:37	17:20	18:58	18:58	19:37	20:13	20:42	20:43	20:10	19:15	18:19	16:32	16:16
13	07:33	07:02	07:14	06:17	05:31	05:10	05:22	05:56	06:32	07:09 07:37-08:02/25	06:50 07:21-07:45/24	07:26
16:39	17:21	18:59	18:59	19:39	20:15	20:43	20:43	20:09	19:13	18:17	16:31	16:16
14	07:32	07:00	07:13	06:15	05:30	05:10	05:23	05:57	06:33	07:10 07:38-08:02/24	06:52 07:21-07:44/23	07:26
16:40	17:23	19:01	19:01	19:40	20:16	20:44	20:42	20:07	19:11	18:15	16:30	16:16
15	07:32	06:59	07:11	06:14	05:29	05:10	05:24	05:58	06:35	07:11 07:38-08:01/23	06:53 07:22-07:44/22	07:27
16:41	17:24	19:02	19:02	19:41	20:17	20:44	20:41	20:06	19:09	18:13	16:29	16:16
16	07:31	06:57	07:09	06:12	05:28	05:10	05:25	05:59	06:36	07:13 07:38-08:00/22	06:55 07:22-07:43/21	07:28
16:42	17:26	19:03	19:03	19:42	20:18	20:44	20:41	20:04	19:07	18:12	16:28	16:16
17	07:30	06:56	07:07	06:10	05:27	05:10	05:26	06:00	06:37	07:14 07:40-07:59/19	06:56 07:23-07:42/19	07:29
16:44	17:27	19:05	19:05	19:44	20:19	20:45	20:40	20:03	19:05	18:10	16:27	16:17
18	07:30	06:54	07:05	06:09	05:26	05:10	05:27	06:01	06:38	07:15 07:40-07:57/17	06:57 07:25-07:42/17	07:29
16:45	17:28	19:06	19:06	19:45	20:20	20:45	20:39	20:01	19:03	18:08	16:26	16:17
19	07:29	06:52	07:03	06:07	05:25	05:10	05:28	06:03	06:39	07:17 07:42-07:56/14	06:59 07:26-07:41/15	07:30
16:46	17:30	19:07	19:07	19:46	20:21	20:46	20:38	19:58	19:01	18:07	16:25	16:17
20	07:28	06:51	07:01	06:05	05:24	05:10	05:29	06:04	06:41	07:18 07:45-07:53/8	07:00 07:28-07:40/12	07:31
16:48	17:31	19:08	19:08	19:47	20:22	20:46	20:38	19:56	19:00	18:05	16:24	16:18
21	07:28 07:55-08:03/8	06:49	07:00	06:03	05:23	05:10	05:30	06:05	06:42	07:19	07:01 07:30-07:38/8	07:31
16:49	17:33	19:10	19:10	19:49	20:24	20:46	20:37	19:54	18:58	18:03	16:24	16:18
22	07:27 07:53-08:05/12	06:48 07:13-07:23/10	06:58	06:02	05:22	05:11	05:31	06:06	06:43	07:21	07:02	07:32
16:50	17:34	19:11	19:11	19:50	20:25	20:46	20:36	19:53	18:56	18:02	16:23	16:19
23	07:26 07:52-08:07/15	06:46 07:10-07:25/15	06:56	06:00	05:21	05:11	05:32	06:07	06:44	07:22	07:04	07:32
16:52	17:35	19:12	19:12	19:51	20:26	20:47	20:35	19:51	18:54	18:00	16:22	16:19
24	07:25 07:51-08:08/17	06:44 07:08-07:26/18	06:54	05:59	05:20	05:11	05:33	06:09	06:45	07:23	07:05	07:33
16:53	17:37	19:14	19:14	19:52	20:27	20:47	20:34	19:49	18:52	17:58	16:21	16:20
25	07:24 07:50-08:09/19	06:43 07:08-07:28/20	06:52	05:57	05:19	05:11	05:34	06:10	06:47	07:25	07:06	07:33
16:54	17:38	19:15	19:15	19:54	20:28	20:47	20:33	19:48	18:50	17:57	16:21	16:20
26	07:23 07:50-08:10/20	06:41 07:06-07:29/23	06:50	05:55	05:18	05:12	05:35	06:11	06:48	07:26	07:08	07:33
16:56	17:39	19:16	19:16	19:55	20:29	20:47	20:32	19:46	18:48	17:55	16:20	16:21
27	07:22 07:49-08:11/22	06:39 07:05-07:29/24	06:48	05:54	05:18	05:12	05:36	06:12	06:49	07:27	07:09	07:34
16:57	17:41	19:17	19:17	19:56	20:30	20:47	20:31	19:44	18:46	17:54	16:19	16:22
28	07:21 07:49-08:12/23	06:38 07:05-07:29/24	06:46	05:52	05:17	05:13	05:37	06:13	06:50	07:29	07:10	07:34
16:59	17:42	19:19	19:19	19:57	20:31	20:47	20:30	19:42	18:44	17:52	16:19	16:22
29	07:20 07:49-08:13/24		06:45	05:51	05:16	05:13	05:38	06:14	06:51	07:30	07:11	07:34
17:00			19:20	19:59	20:32	20:47	20:29	19:41	18:43	17:51	16:18	16:23
30	07:19 07:49-08:13/24		06:43	05:49	05:16	05:14	05:39	06:16	06:53	07:31	07:12	07:34
17:01			19:21	20:00	20:33	20:47	20:28	19:39	18:41	17:49	16:18	16:24
31	07:18 07:48-08:13/25		06:41		05:15		05:41	06:17		07:33 08:30-08:34/4		07:35
17:03			19:22		20:34		20:26	19:37		17:48		16:25
Potential sun hours	286	291	369	404	459	466	472	436	376	341	288	275
Sum of minutes with flicker	209	342	369	174	0	0	0	0	0	313	420	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 31 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (117)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

		January	February	March	April	May		June		July		August	September	October	November	December
1	07:35 16:26	07:17 17:04	06:36 17:44	06:39 19:24	05:48 20:00			05:14 20:34	19:50-20:08/18	05:14 20:47	19:55-20:20/25	05:42 20:25	06:18 19:35	06:54 18:39	06:34 16:46	07:14 16:18
2	07:35 16:27	07:16 17:06	06:34 17:45	06:37 19:25	05:46 20:01			05:14 20:35	19:49-20:09/20	05:15 20:47	19:55-20:19/24	05:43 20:24	06:19 19:33	06:55 18:37	06:35 16:45	07:15 16:17
3	07:35 16:28	07:15 17:07	06:32 17:46	06:35 19:26	05:45 20:02			05:13 20:36	19:50-20:10/20	05:15 20:47	19:55-20:19/24	05:44 20:23	06:20 19:32	06:56 18:35	06:37 16:44	07:16 16:17
4	07:35 16:29	07:14 17:09	06:31 17:48	06:34 19:27	05:43 20:04			05:13 20:37	19:49-20:10/21	05:16 20:46	19:55-20:18/23	05:45 20:21	06:22 19:30	06:58 18:33	06:38 16:42	07:17 16:17
5	07:35 16:30	07:12 17:10	06:29 17:49	06:32 19:29	05:42 20:05			05:12 20:38	19:50-20:11/21	05:16 20:46	19:56-20:19/23	05:46 20:20	06:23 19:28	06:59 18:31	06:40 16:41	07:18 16:16
6	07:35 16:31	07:11 17:11	06:27 17:50	06:30 19:30	05:41 20:06			05:12 20:39	19:50-20:12/22	05:17 20:46	19:56-20:19/23	05:47 20:19	06:24 19:26	07:00 18:30	06:41 16:40	07:19 16:16
7	07:34 16:32	07:10 17:13	06:25 17:52	06:28 19:31	05:39 20:07			05:12 20:39	19:49-20:12/23	05:18 20:46	19:56-20:18/22	05:49 20:17	06:25 19:24	07:01 18:28	06:42 16:38	07:20 16:16
8	07:34 16:33	07:09 17:14	07:24 18:53	06:26 19:32	05:38 20:09			05:11 20:40	19:50-20:13/23	05:19 20:45	19:56-20:18/22	05:50 20:16	06:26 19:22	07:03 18:26	06:44 16:37	07:21 16:16
9	07:34 16:34	07:07 17:16	07:22 18:54	06:24 19:34	05:36 20:10			05:11 20:41	19:50-20:14/24	05:19 20:45	19:57-20:17/20	05:51 20:15	06:28 19:20	07:04 18:24	06:45 16:36	07:22 16:16
10	07:34 16:35	07:06 17:17	07:20 18:56	06:23 19:35	05:35 20:11			05:11 20:41	19:51-20:15/24	05:20 20:44	19:57-20:17/20	05:52 20:13	06:29 19:19	07:05 18:22	06:46 16:35	07:23 16:16
11	07:33 16:36	07:05 17:19	07:18 18:57	06:21 19:36	05:34 20:12			05:11 20:42	19:51-20:15/24	05:21 20:44	19:57-20:16/19	05:53 20:12	06:30 19:17	07:06 18:21	06:48 16:33	07:24 16:16
12	07:33 16:38	07:03 17:20	07:16 18:58	06:19 19:38	05:33 20:13			05:10 20:43	19:50-20:15/25	05:22 20:43	19:58-20:16/18	05:54 20:10	06:31 19:15	07:08 18:19	06:49 16:32	07:25 16:16
13	07:33 16:39	07:02 17:21	07:14 18:59	06:17 19:39	05:31 20:15			05:10 20:43	19:51-20:16/25	05:23 20:43	19:58-20:15/17	05:56 20:09	06:32 19:13	07:09 18:17	06:50 16:31	07:26 16:16
14	07:32 16:40	07:00 17:23	07:13 19:01	06:16 19:40	05:30 20:16			05:10 20:44	19:51-20:16/25	05:23 20:42	19:59-20:15/16	05:57 20:07	06:33 19:11	07:10 18:15	06:52 16:30	07:26 16:16
15	07:32 16:41	06:59 17:24	07:11 19:02	06:14 19:41	05:29 20:17			05:10 20:44	19:51-20:17/26	05:24 20:41	19:59-20:15/16	05:58 20:06	06:35 19:09	07:11 18:13	06:53 16:29	07:27 16:16
16	07:31 16:42	06:57 17:26	07:09 19:03	06:12 19:43	05:28 20:18			05:10 20:45	19:51-20:17/26	05:25 20:41	19:59-20:13/14	05:59 20:04	06:36 19:07	07:13 18:12	06:55 16:28	07:28 16:16
17	07:30 16:44	06:56 17:27	07:07 19:05	06:10 19:44	05:27 20:19			05:10 20:45	19:51-20:17/26	05:26 20:40	20:00-20:12/12	06:00 20:03	06:37 19:05	07:14 18:10	06:56 16:27	07:29 16:17
18	07:30 16:45	06:54 17:28	07:05 19:06	06:09 19:45	05:26 20:20			05:10 20:45	19:52-20:18/26	05:27 20:39	20:00-20:12/12	06:01 20:01	06:38 19:03	07:15 18:08	06:57 16:26	07:29 16:17
19	07:29 16:46	06:53 17:30	07:03 19:07	06:07 19:46	05:25 20:21			05:10 20:46	19:53-20:19/26	05:28 20:39	20:01-20:11/10	06:03 19:58	06:39 19:02	07:17 18:07	06:59 16:25	07:30 16:17
20	07:28 16:48	06:51 17:31	07:01 19:08	06:05 19:48	05:24 20:23	19:56-19:57/1		05:10 20:46	19:53-20:19/26	05:29 20:38	20:02-20:10/8	06:04 19:56	06:41 19:00	07:18 18:05	07:00 16:24	07:31 16:18
21	07:28 16:49	06:49 17:33	07:00 19:10	06:04 19:49	05:23 20:24	19:54-19:58/4		05:10 20:46	19:53-20:19/26	05:30 20:37	20:03-20:10/7	06:05 19:54	06:42 18:58	07:19 18:03	07:01 16:24	07:31 16:18
22	07:27 16:50	06:48 17:34	06:58 19:11	06:02 19:50	05:22 20:25	19:54-20:00/6		05:11 20:47	19:53-20:19/26	05:31 20:36	20:04-20:09/5	06:06 19:53	06:43 18:56	07:21 18:02	07:02 16:23	07:32 16:19
23	07:26 16:52	06:46 17:35	06:56 19:12	06:00 19:51	05:21 20:26	19:53-20:01/8		05:11 20:47	19:53-20:19/26	05:32 20:35	20:05-20:08/3	06:07 19:51	06:44 18:54	07:22 18:00	07:04 16:22	07:32 16:19
24	07:25 16:53	06:44 17:37	06:54 19:14	05:59 19:53	05:20 20:27	19:52-20:01/9		05:11 20:47	19:54-20:20/26	05:33 20:34		06:09 19:49	06:45 18:52	07:23 17:58	07:05 16:21	07:33 16:20
25	07:24 16:54	06:43 17:38	06:52 19:15	05:57 19:54	05:19 20:28	19:51-20:02/11		05:12 20:47	19:54-20:19/25	05:34 20:33		06:10 19:48	06:47 18:50	07:25 17:57	07:06 16:21	07:33 16:20
26	07:23 16:56	06:41 17:39	06:50 19:16	05:55 19:55	05:18 20:29	19:50-20:03/13		05:12 20:47	19:53-20:19/26	05:35 20:32		06:11 19:46	06:48 18:48	07:26 17:55	07:08 16:20	07:33 16:21
27	07:23 16:57	06:39 17:41	06:48 19:17	05:54 19:56	05:18 20:30	19:51-20:04/13		05:12 20:47	19:54-20:20/26	05:36 20:31		06:12 19:44	06:49 18:46	07:27 17:54	07:09 16:20	07:34 16:22
28	07:22 16:59	06:38 17:42	06:47 19:19	05:52 19:58	05:17 20:31	19:50-20:05/15		05:13 20:47	19:54-20:19/25	05:37 20:30		06:13 19:42	06:50 18:44	07:29 17:52	07:10 16:19	07:34 16:22
29	07:21 17:00		06:45 19:20	05:51 19:59	05:16 20:32	19:49-20:05/16		05:13 20:47	19:55-20:20/25	05:38 20:29		06:15 19:41	06:51 18:43	07:30 17:51	07:11 16:18	07:34 16:23
30	07:19 17:01		06:43 19:21	05:49 20:00	05:16 20:33	19:50-20:07/17		05:14 20:47	19:54-20:19/25	05:39 20:28		06:16 19:39	06:53 18:41	07:31 17:49	07:12 16:18	07:34 16:24
31	07:18 17:03		06:41 19:22		05:15 20:34	19:49-20:07/18				05:41 20:26		06:17 19:37		07:33 17:48		07:35 16:25
Potential sun hours	286	291	369	404	459			466		472		436	376	341	288	275
Sum of minutes with flicker	0	0	0	0	131			727		383		0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 48

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 32 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (118)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January	February	March	April	May	June
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1	07:35	14:52-15:33/41	07:17	07:39-07:55/16	15:02-15:49/47	06:36	06:59-07:31/32	06:39	05:48	05:14
	16:26	15:33-15:37/4	17:04	07:52-07:59/7		17:43		19:24	20:00	20:34
2	07:35	14:53-15:34/41	07:16	07:38-07:57/19	15:03-15:49/46	06:34	06:59-07:27/28	06:37	05:46	05:14
	16:27	15:34-15:38/4	17:06	07:54-08:00/6		17:45		19:25	20:01	20:35
3	07:35	14:53-15:34/41	07:15	07:37-07:58/21	15:04-15:49/45	06:32	06:59-07:23/24	06:35	05:45	05:13
	16:28	15:34-15:38/4	17:07	07:56-08:01/5		17:46		19:26	20:02	20:36
4	07:35	14:53-15:35/42	07:14	07:35-07:59/24	07:59-08:01/2	06:31	06:59-07:22/23	06:33	05:43	05:13
	16:29	15:35-15:39/4	17:08	07:56-07:58/2	15:04-15:48/44	17:47		19:27	20:04	20:37
5	07:35	14:53-15:35/42	07:12	07:34-08:00/26	08:00-08:02/2	06:29	06:59-07:21/22	06:32	05:42	05:12
	16:30	15:35-15:40/5	17:10	07:57-07:59/2	15:06-15:47/41	17:49		19:29	20:05	20:38
6	07:34	14:54-15:36/42	07:11	07:33-08:01/28	08:01-08:02/1	06:27	07:01-07:20/19	06:30	05:40	05:12
	16:31	15:36-15:41/5	17:11	07:58-08:00/2	15:07-15:47/40	17:50		19:30	20:06	20:38
7	07:34	14:53-15:35/42	07:10	07:31-08:00/29	15:08-15:45/37	06:25	07:02-07:19/17	06:28	05:39	05:11
	16:32	15:35-15:41/6	17:13	07:58-08:02/4		17:51		19:31	20:07	20:39
8	07:34	14:54-15:36/42	07:08	07:30-08:01/31	15:10-15:44/34	07:23	08:03-08:16/13	06:26	05:38	05:11
	16:33	15:36-15:42/6	17:14	07:59-08:02/3		18:53		19:32	20:08	20:40
9	07:34	14:54-15:37/43	07:07	07:29-08:01/32	15:12-15:43/31	07:22	08:06-08:12/6	06:24	05:36	05:11
	16:34	15:37-15:43/6	17:16	07:59-08:03/4		18:54		19:34	20:10	20:41
10	07:34	14:54-15:36/42	07:06	07:27-08:01/34	08:01-08:02/1	07:20		06:23	05:35	05:11
	16:35	15:36-15:43/7	17:17	07:59-08:00/1	15:14-15:41/27	18:55		19:35	20:11	20:41
11	07:33	14:54-15:37/43	07:04	07:26-08:01/35	08:01-08:02/1	07:18		06:21	05:34	05:10
	16:36	15:37-15:44/7	17:18	07:59-08:00/1	15:17-15:39/22	18:57		19:36	20:12	20:42
12	07:33	14:55-15:37/42	07:03	07:24-08:00/36	15:20-15:35/15	07:16		06:19	05:33	05:10
	16:37	15:37-15:45/8	17:20	07:58-07:59/1		18:58		19:37	20:13	20:42
13	07:32	14:55-15:37/42	07:02	07:23-08:00/37		07:14		06:17	05:31	05:10
	16:39	15:37-15:45/8	17:21			18:59		19:39	20:14	20:43
14	07:32	14:54-15:36/42	07:00	07:21-07:58/37		07:13		06:15	05:30	05:10
	16:40	15:36-15:46/10	17:23	07:56-07:58/2		19:01		19:40	20:16	20:43
15	07:31	14:55-15:37/42	06:59	07:20-07:57/37		07:11		06:14	05:29	05:10
	16:41	15:37-15:47/10	17:24			19:02		19:41	20:17	20:44
16	07:31	14:55-15:36/41	06:57	07:18-07:55/37		07:09		06:12	05:28	05:10
	16:42	15:36-15:47/11	17:25	07:54-07:55/1		19:03		19:42	20:18	20:44
17	07:30	14:56-15:36/40	06:56	07:17-07:53/36		07:07		06:10	05:27	05:10
	16:44	15:36-15:48/12	17:27	07:51-07:53/2		19:05		19:44	20:19	20:45
18	07:30	14:56-15:35/39	06:54	07:15-07:52/37		07:05		06:08	05:26	05:10
	16:45	15:35-15:48/13	17:28			19:06		19:45	20:20	20:45
19	07:29	14:56-15:34/38	06:52	07:13-07:50/37		07:03		06:07	05:25	05:10
	16:46	15:34-15:48/14	17:30			19:07		19:46	20:21	20:46
20	07:28	14:56-15:32/36	06:51	07:12-07:49/37		07:01		06:05	05:24	05:10
	16:47	15:32-15:49/17	17:31			19:08		19:47	20:22	20:46
21	07:28	14:56-15:49/53	06:49	07:11-07:47/36		07:00		06:03	05:23	05:10
	16:49		17:32			19:10		19:49	20:23	20:46
22	07:27	14:57-15:50/53	06:48	07:09-07:46/37		06:58		06:02	05:22	05:11
	16:50		17:34			19:11		19:50	20:25	20:46
23	07:26	14:57-15:50/53	06:46	07:07-07:44/37		06:56		06:00	05:21	05:11
	16:52		17:35	07:44-07:45/1		19:12		19:51	20:26	20:47
24	07:25	14:58-15:50/52	06:44	07:05-07:42/37		06:54		05:58	05:20	05:11
	16:53		17:37	07:42-07:44/2		19:13		19:52	20:27	20:47
25	07:24	14:58-15:50/52	06:43	07:04-07:39/35		06:52		05:57	05:19	05:11
	16:54		17:38	07:38-07:42/4		19:15		19:54	20:28	20:47
26	07:23	14:58-15:51/53	06:41	07:02-07:38/36		06:50		05:55	05:18	05:12
	16:56		17:39	07:35-07:40/5		19:16		19:55	20:29	20:47
27	07:22	14:59-15:51/52	06:39	07:00-07:37/37		06:48		05:54	05:18	05:12
	16:57		17:41	07:36-07:37/1		19:17		19:56	20:30	20:47
28	07:21	07:46-07:51/5	06:38	06:59-07:34/35		06:46		05:52	05:17	05:13
	16:58	14:59-15:51/52	17:42			19:18		19:57	20:31	20:47
29	07:20	07:44-07:55/11				06:45		05:51	05:16	05:13
	17:00	15:00-15:51/51				19:20		19:59	20:32	20:47
30	07:19	07:42-07:53/11	15:00-15:50/50			06:43		05:49	05:15	05:13
	17:01	07:53-07:57/4				19:21		20:00	20:33	20:47
31	07:18	07:40-07:53/13	15:01-15:50/49			06:41			05:15	
	17:03	07:50-07:58/8				19:22			20:33	
sum	286		291			369		404	459	466
ker	1603		1377			184		0	0	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 49

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 32 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (118)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December		
1	05:14	05:42	06:18	06:54					06:34	06:57-07:31/34	07:31-07:32/1	07:13	14:36-15:19/43
	20:47	20:25	19:35	18:39					16:46	07:28-07:30/2	14:43-15:11/28	16:17	15:19-15:26/7
2	05:15	05:43	06:19	06:55					06:35	06:58-07:30/32	14:41-15:12/31	07:15	14:37-15:19/42
	20:47	20:24	19:33	18:37					16:45	07:28-07:31/3		16:17	15:19-15:26/7
3	05:15	05:44	06:20	06:56					06:37	07:00-07:31/31	07:31-07:32/1	07:16	14:37-15:20/43
	20:47	20:23	19:31	18:35					16:43	07:28-07:30/2	14:39-15:14/35	16:17	15:20-15:26/6
4	05:16	05:45	06:22	06:57					06:38	07:01-07:30/29	14:38-15:15/37	07:17	14:39-15:21/42
	20:46	20:21	19:30	18:33					16:42	07:28-07:32/4		16:16	15:21-15:27/6
5	05:16	05:46	06:23	06:59	07:41-07:52/11				06:39	07:03-07:30/27	14:37-15:17/40	07:18	14:39-15:22/43
	20:46	20:20	19:28	18:31					16:41	07:28-07:32/4		16:16	15:22-15:27/5
6	05:17	05:47	06:24	07:00	07:38-07:53/15				06:41	07:04-07:29/25	14:35-15:17/42	07:19	14:40-15:22/42
	20:46	20:19	19:26	18:29					16:39	07:27-07:32/5		16:16	15:22-15:27/5
7	05:18	05:48	06:25	07:01	07:37-07:55/18				06:42	07:06-07:29/23	14:35-15:19/44	07:20	14:40-15:22/42
	20:45	20:17	19:24	18:28					16:38	07:27-07:32/5		16:16	15:22-15:27/5
8	05:18	05:50	06:26	07:02	07:35-07:56/21				06:44	07:07-07:28/21	14:34-15:19/45	07:21	14:41-15:23/42
	20:45	20:16	19:22	18:26					16:37	07:26-07:31/5		16:16	15:23-15:27/4
9	05:19	05:51	06:27	07:04	07:34-07:56/22				06:45	07:09-07:28/19	14:34-15:20/46	07:22	14:42-15:23/41
	20:45	20:15	19:20	18:24					16:36	07:25-07:31/6		16:16	15:23-15:28/5
10	05:20	05:52	06:29	07:05	07:33-07:56/23				06:46	07:10-07:26/16	14:32-15:20/48	07:23	14:43-15:24/41
	20:44	20:13	19:18	18:22					16:34	07:23-07:30/7		16:16	15:24-15:28/4
11	05:21	05:53	06:30	07:06	07:33-07:58/25				06:48	07:12-07:24/12	14:33-15:22/49	07:24	14:43-15:24/41
	20:44	20:12	19:17	18:20					16:33	07:21-07:29/8		16:16	15:24-15:28/4
12	05:22	05:54	06:31	07:07	07:32-08:02/30				06:49	07:13-07:24/11	14:32-15:22/50	07:25	14:43-15:24/41
	20:43	20:10	19:15	18:19					16:32	07:24-07:28/4		16:16	15:24-15:27/3
13	05:22	05:55	06:32	07:09	07:32-08:04/32				06:50	07:16-07:27/11		07:26	14:44-15:25/41
	20:43	20:09	19:13	18:17					16:31	14:32-15:23/51		16:16	15:25-15:28/3
14	05:23	05:57	06:33	07:10	07:33-08:08/35				06:52	07:19-07:23/4		07:26	14:45-15:25/40
	20:42	20:07	19:11	18:15					16:30	14:31-15:23/52		16:16	15:25-15:28/3
15	05:24	05:58	06:35	07:11	07:33-08:10/37				06:53	14:31-15:23/52		07:27	14:46-15:26/40
	20:41	20:06	19:09	18:13	08:09-08:11/2				16:29			16:16	15:26-15:29/3
16	05:25	05:59	06:36	07:13	07:34-08:10/36				06:54	14:31-15:23/52		07:28	14:46-15:27/41
	20:41	20:04	19:07	18:12	08:07-08:13/6				16:28			16:16	15:27-15:29/2
17	05:26	06:00	06:37	07:14	07:36-08:12/36				06:56	14:31-15:23/52		07:29	14:46-15:26/40
	20:40	20:02	19:05	18:10	08:11-08:15/4				16:27			16:17	15:26-15:29/3
18	05:27	06:01	06:38	07:15	07:37-08:14/37				06:57	14:32-15:24/52		07:29	14:47-15:27/40
	20:39	20:01	19:03	18:08	08:14-08:16/2				16:26			16:17	15:27-15:30/3
19	05:28	06:03	06:39	07:17	07:38-08:14/36				06:58	14:31-15:24/53		07:30	14:48-15:28/40
	20:38	19:58	19:01	18:06	08:12-08:16/4				16:25			16:17	15:28-15:30/2
20	05:29	06:04	06:40	07:18	07:40-08:17/37				07:00	14:32-15:25/53		07:31	13:38-13:40/2
	20:38	19:56	18:59	18:05					16:24			16:18	14:48-15:28/40
21	05:30	06:05	06:42	07:19	07:41-08:18/37				07:01	14:32-15:25/53		07:31	13:38-13:42/4
	20:37	19:54	18:58	18:03					16:24			16:18	14:49-15:29/40
22	05:31	06:06	06:43	07:20	07:43-08:20/37				07:02	14:32-15:08/36		07:32	13:38-13:42/4
	20:36	19:53	18:56	18:02					16:23	15:08-15:25/17		16:19	14:49-15:29/40
23	05:32	06:07	06:44	07:22	07:44-08:21/37				07:04	14:33-15:11/38		07:32	13:39-13:42/3
	20:35	19:51	18:54	18:00					16:22	15:11-15:25/14		16:19	14:50-15:30/40
24	05:33	06:08	06:45	07:23	07:45-08:22/37				07:05	14:33-15:12/39		07:33	14:50-15:30/40
	20:34	19:49	18:52	17:58					16:21	15:12-15:25/13		16:20	15:30-15:32/2
25	05:34	06:10	06:46	07:24	07:47-08:23/36				07:06	14:33-15:13/40		07:33	14:50-15:30/40
	20:33	19:47	18:50	17:57	08:22-08:23/1				16:21	15:13-15:25/12		16:20	15:30-15:33/3
26	05:35	06:11	06:48	07:26	07:48-08:25/37				07:07	14:34-15:15/41		07:33	14:51-15:31/40
	20:32	19:46	18:48	17:55	08:24-08:25/1				16:20	15:15-15:26/11		16:21	15:31-15:34/3
27	05:36	06:12	06:49	07:27	07:50-08:27/37				07:09	14:34-15:16/42		07:34	14:51-15:31/40
	20:31	19:44	18:46	17:54					16:19	15:16-15:26/10		16:22	15:31-15:34/3
28	05:37	06:13	06:50	07:29	07:51-08:28/37				07:10	14:34-15:16/42		07:34	14:52-15:32/40
	20:30	19:42	18:44	17:52	08:26-08:28/2				16:19	15:16-15:26/10		16:22	15:32-15:35/3
29	05:38	06:14	06:51	07:30	07:53-08:30/37				07:11	14:36-15:18/42		07:34	14:52-15:32/40
	20:29	19:40	18:42	17:51					16:18	15:18-15:26/8		16:23	15:32-15:35/3
30	05:39	06:16	06:53	07:31	07:54-08:30/36				07:12	14:36-15:18/42		07:34	14:52-15:32/40
	20:28	19:39	18:41	17:49	15:49-16:05/16				16:18	15:18-15:26/8		16:24	15:32-15:36/4
31	05:40	06:17		07:33	07:56-08:31/35	08:31-08:32/1						07:34	14:52-15:33/41
	20:26	19:37		17:48	08:29-08:30/1	15:45-16:08/23						16:25	15:33-15:36/3
Potential sun hours	472	436	376	341					288			275	
Sum of minutes with flicker	0	0	0	906					1757			1391	

Project:

Jericho_SFA_2015_08_28

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EDR217 Montgomery St.
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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 33 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (119)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December			
1	07:35 16:26	07:17 17:04	06:36 17:43	06:39 19:24	05:48 20:00	05:14 20:34	05:41-06:13/32 06:12-06:17/5	05:14 20:47	05:47-06:19/32 06:19-06:21/2	05:42 20:25	06:07-06:16/9 06:16-06:28/12	06:18 19:35	06:54 18:39	06:34 16:46	07:14 16:18
2	07:35 16:27	07:16 17:06	06:34 17:45	06:37 19:25	05:46 20:01	05:14 20:35	05:41-06:13/32 06:12-06:17/5	05:15 20:47	05:46-06:19/33 06:19-06:21/2	05:43 20:24	06:07-06:27/20	06:19 19:33	06:55 18:37	06:35 16:45	07:15 16:17
3	07:35 16:28	07:15 17:07	06:32 17:46	06:35 19:26	05:45 20:02	05:13 20:36	05:41-06:14/33 06:13-06:17/4	05:15 20:47	05:47-06:19/32 06:19-06:22/3	05:44 20:23	06:09-06:27/18	06:20 19:31	06:56 18:35	06:37 16:44	07:16 16:17
4	07:35 16:29	07:14 17:08	06:31 17:48	06:33 19:27	05:43 20:04	05:13 20:37	05:41-06:13/32 06:13-06:17/4	05:16 20:46	05:47-06:19/32 06:19-06:22/3	05:45 20:21	06:10-06:25/15	06:22 19:30	06:58 18:33	06:38 16:42	07:17 16:17
5	07:35 16:30	07:12 17:10	06:29 17:49	06:32 19:29	05:42 20:05	05:12 20:38	05:41-06:13/32 06:13-06:17/4	05:16 20:46	05:47-06:19/32 06:19-06:22/3	05:46 20:20	06:12-06:23/11	06:23 19:28	06:59 18:31	06:39 16:41	07:18 16:16
6	07:35 16:31	07:11 17:11	06:27 17:50	06:30 19:30	05:40 20:06	05:12 20:38	05:42-06:14/32 06:14-06:17/3	05:17 20:46	05:48-06:20/32 06:20-06:23/3	05:47 20:19	06:15-06:20/5	06:24 19:26	07:00 18:30	06:41 16:40	07:19 16:16
7	07:34 16:32	07:10 17:13	06:25 17:52	06:28 19:31	05:39 20:07	05:12 20:39	05:41-06:13/32 06:13-06:16/3	05:18 20:45	05:47-06:19/32 06:19-06:23/4	05:49 20:17		06:25 19:24	07:01 18:28	06:42 16:38	07:20 16:16
8	07:34 16:33	07:09 17:14	07:24 18:53	06:26 19:32	05:38 20:09	06:01-06:14/13	05:11 20:40	05:42-06:14/32 06:14-06:17/3	05:19 20:45	05:48-06:20/32 06:20-06:24/4	05:50 20:16	06:26 19:22	07:03 18:26	06:44 16:37	07:21 16:16
9	07:34 16:34	07:07 17:16	07:22 18:54	06:24 19:34	05:36 20:10	05:59-06:15/16	05:11 20:41	05:42-06:14/32 06:14-06:17/3	05:19 20:45	05:49-06:21/32 06:20-06:24/4	05:51 20:15	06:28 19:20	07:04 18:24	06:45 16:36	07:22 16:16
10	07:34 16:35	07:06 17:17	07:20 18:55	06:23 19:35	05:35 20:11	05:58-06:17/19	05:11 20:41	05:42-06:15/33 06:15-06:17/2	05:20 20:44	05:49-06:22/33 06:21-06:25/4	05:52 20:13	06:29 19:18	07:05 18:22	06:46 16:35	07:23 16:16
11	07:33 16:36	07:04 17:18	07:18 18:57	06:21 19:36	05:34 20:12	05:57-06:18/21	05:10 20:42	05:43-06:15/32 06:15-06:17/2	05:21 20:44	05:49-06:21/32 06:20-06:25/5	05:53 20:12	06:30 19:17	07:06 18:20	06:48 16:33	07:24 16:16
12	07:33 16:37	07:03 17:20	07:16 18:58	06:19 19:37	05:33 20:13	05:57-06:08/11	05:10 20:42	05:42-06:14/32 06:14-06:16/2	05:22 20:43	05:49-06:21/32 06:20-06:25/5	05:54 20:10	06:31 19:15	07:08 18:19	06:49 16:32	07:25 16:16
13	07:33 16:39	07:02 17:21	07:14 18:59	06:17 19:39	05:31 20:14	05:55-06:10/15	05:10 20:43	05:42-06:14/32 06:14-06:16/2	05:22 20:43	05:50-06:21/31 06:20-06:26/6	05:56 20:09	06:32 19:13	07:09 18:17	06:50 16:31	07:26 16:16
14	07:32 16:40	07:00 17:23	07:13 19:01	06:15 19:40	05:30 20:16	05:54-06:12/18	05:10 20:44	05:43-06:15/32 06:15-06:16/1	05:23 20:42	05:50-06:21/31 06:20-06:26/6	05:57 20:07	06:33 19:11	07:10 18:15	06:52 16:30	07:26 16:16
15	07:32 16:41	06:59 17:24	07:11 19:02	06:14 19:41	05:29 20:17	05:53-06:13/20	05:10 20:44	05:39-05:42/3 06:15-06:16/1	05:24 20:41	05:51-06:21/30 06:20-06:27/7	05:58 20:06	06:35 19:09	07:11 18:13	06:53 16:29	07:27 16:16
16	07:31 16:42	06:57 17:26	07:09 19:03	06:12 19:42	05:28 20:18	05:52-06:14/22	05:10 20:44	05:38-06:15/37 06:15-06:16/1	05:25 20:41	05:51-06:20/29 06:19-06:27/8	05:59 20:04	06:36 19:07	07:13 18:12	06:54 16:28	07:28 16:16
17	07:30 16:44	06:56 17:27	07:07 19:05	06:10 19:44	05:27 20:19	05:52-06:15/23	05:10 20:45	05:38-06:15/37 06:15-06:16/1	05:26 20:40	05:51-06:20/29 06:19-06:28/9	06:00 20:03	06:37 19:05	07:14 18:10	06:56 16:27	07:29 16:17
18	07:30 16:45	06:54 17:28	07:05 19:06	06:09 19:45	05:26 20:20	05:51-06:15/24	05:10 20:45	05:37-06:15/38 06:15-06:16/1	05:27 20:39	05:52-06:19/27 06:18-06:28/10	06:01 20:01	06:38 19:03	07:15 18:08	06:57 16:26	07:29 16:17
19	07:29 16:46	06:52 17:30	07:03 19:07	06:07 19:46	05:25 20:21	05:51-06:02/11	05:10 20:46	05:38-06:16/38 06:16-06:17/1	05:28 20:38	05:53-06:19/26 06:18-06:29/11	06:03 19:58	06:39 19:01	07:17 18:07	06:58 16:25	07:30 16:17
20	07:28 16:48	06:51 17:31	07:01 19:08	06:05 19:47	05:24 20:22	05:50-06:04/14	05:10 20:46	05:38-06:16/38 06:16-06:17/1	05:29 20:38	05:54-06:18/24 06:17-06:29/12	06:04 19:56	06:41 19:00	07:18 18:05	07:00 16:24	07:31 16:18
21	07:28 16:49	06:49 17:33	07:00 19:10	06:03 19:49	05:23 20:24	05:48-06:06/18	05:10 20:46	05:38-06:16/38 06:16-06:17/1	05:30 20:37	05:55-06:18/23 06:17-06:30/13	06:05 19:54	06:42 18:58	07:19 18:03	07:01 16:24	07:31 16:18
22	07:27 16:50	06:48 17:34	06:58 19:11	06:02 19:50	05:22 20:25	05:47-06:08/21	05:11 20:46	05:38-06:16/38 06:16-06:17/1	05:31 20:36	05:57-06:17/20 06:16-06:30/14	06:06 19:53	06:43 18:56	07:21 18:02	07:02 16:23	07:32 16:19
23	07:26 16:52	06:46 17:35	06:56 19:12	06:00 19:51	05:21 20:26	05:45-06:09/24	05:11 20:47	05:38-06:16/38 06:16-06:17/1	05:32 20:35	05:59-06:16/17 06:15-06:30/15	06:07 19:51	06:44 18:54	07:22 18:00	07:04 16:22	07:32 16:19
24	07:25 16:53	06:44 17:37	06:54 19:14	05:59 19:52	05:20 20:27	05:44-06:09/25	05:11 20:47	05:39-06:17/38 06:17-06:18/1	05:33 20:34	06:01-06:14/13 06:13-06:30/17	06:09 19:49	06:45 18:52	07:23 17:58	07:05 16:21	07:33 16:20
25	07:24 16:54	06:43 17:38	06:52 19:15	05:57 19:54	05:19 20:28	05:43-06:10/27	05:11 20:47	05:40-06:17/37 06:17-06:18/1	05:34 20:33	06:01-06:10/9 06:09-06:30/21	06:10 19:48	06:47 18:50	07:25 17:57	07:06 16:21	07:33 16:20
26	07:23 16:56	06:41 17:39	06:50 19:16	05:55 19:55	05:18 20:29	05:42-06:10/28	05:12 20:47	05:40-06:17/37 06:17-06:18/1	05:35 20:32	06:02-06:26/24 06:26-06:30/4	06:11 19:46	06:48 18:48	07:26 17:55	07:08 16:20	07:33 16:21
27	07:22 16:57	06:39 17:41	06:48 19:17	05:54 19:56	05:18 20:30	05:43-06:11/28	05:12 20:47	05:42-05:45/3 06:18-06:19/1	05:36 20:31	06:03-06:25/22 06:25-06:30/5	06:12 19:44	06:49 18:46	07:27 17:54	07:09 16:19	07:34 16:22
28	07:21 16:59	06:38 17:42	06:46 19:19	05:52 19:57	05:17 20:31	05:42-06:12/30	05:13 20:47	05:46-06:18/32 06:18-06:19/1	05:37 20:30	06:03-06:24/21 06:24-06:30/6	06:13 19:42	06:50 18:44	07:29 17:52	07:10 16:19	07:34 16:22
29	07:20 17:00		06:45 19:20	05:51 19:59	05:16 20:32	05:41-06:12/31	05:13 20:47	05:46-06:19/33 06:19-06:20/1	05:38 20:29	06:04-06:23/19 06:23-06:30/7	06:14 19:41	06:51 18:43	07:30 17:51	07:11 16:18	07:34 16:23
30	07:19 17:01		06:43 19:21	05:49 20:00	05:16 20:33	05:42-06:13/31	05:14 20:47	05:46-06:18/32 06:18-06:20/2	05:39 20:28	06:06-06:22/16 06:22-06:29/7	06:16 19:39	06:53 18:41	07:31 17:49	07:12 16:18	07:34 16:24
31	07:18 17:03		06:41 19:22		05:15 20:33	05:41-06:13/32			05:41 20:26	06:06-06:20/14 06:20-06:29/9	06:17 19:37		07:33 17:48		07:35 16:25
Potential sun hours	286	291	369	404	459		466		472	1024	436	376	341	288	275
Sum of minutes with flicker	0	0	0	0	705		1088		1024	90	0	0	0	0	0

Project:

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 34 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (120)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	07:35 14:24-15:21/57 16:26	07:17 17:04	06:36 07:21-07:47/26 17:44 15:53-16:57/64	06:39 19:24	05:48 20:00	05:14 20:35
2	07:35 14:26-15:22/56 16:27	07:16 17:06	06:34 07:22-07:45/23 17:45 15:53-16:57/64	06:37 19:25	05:46 20:01	05:14 20:35
3	07:35 14:27-15:22/55 16:28	07:15 17:07	06:33 07:23-07:43/20 17:46 15:52-16:56/64	06:35 19:26	05:45 20:03	05:13 20:36
4	07:35 14:27-15:21/54 16:29	07:14 17:09	06:31 07:25-07:40/15 17:48 15:52-16:56/64	06:34 19:28	05:43 20:04	05:13 20:37
5	07:35 14:29-15:22/53 16:30	07:13 17:10	06:29 07:30-07:36/6 17:49 15:53-16:56/63	06:32 19:29	05:42 20:05	05:12 20:38
6	07:35 14:31-15:22/51 16:31	07:11 17:11	06:27 16:18-16:33/15 17:50 15:53-16:55/62	06:30 19:30	05:41 20:06	05:12 20:39
7	07:35 14:33-15:22/49 16:32	07:10 17:13	06:26 16:14-16:38/24 17:52 15:54-16:54/60	06:28 19:31	05:39 20:08	05:12 20:39
8	07:34 14:36-14:44/8 16:33	07:09 17:14	06:24 16:11-16:40/29 18:53 15:54-16:54/60	06:26 19:33	05:38 20:09	05:11 20:40
9	07:34 14:45-15:21/36 16:34	07:07 17:16	06:22 16:54-17:52/58 18:54 15:54-16:54/60	06:25 19:34	05:37 20:10	05:11 20:41
10	07:34 14:47-15:22/35 16:35	07:06 17:17	06:20 16:54-17:52/58 18:56 15:54-16:54/60	06:23 19:35	05:35 20:11	05:11 20:41
11	07:34 14:48-15:22/34 16:36	07:05 17:19	06:18 16:55-17:51/56 18:57 15:54-16:54/60	06:21 19:36	05:34 20:12	05:11 20:42
12	07:34 14:48-15:21/33 16:37	07:04 17:20	06:16 16:57-17:51/54 18:58 15:54-16:54/60	06:19 19:38	05:33 20:14	05:10 20:43
13	07:33 14:50-15:21/31 16:38	07:03 17:21	06:15 16:58-17:48/50 19:00 15:54-16:54/60	06:17 19:39	05:32 20:15	05:10 20:44
14	07:33 14:51-15:20/29 16:39	07:02 17:22	06:14 16:59-17:46/47 19:01 15:54-16:54/60	06:16 19:40	05:30 20:16	05:10 20:45
15	07:32 14:53-15:20/27 16:40	07:00 17:23	06:13 16:59-17:46/47 19:02 15:54-16:54/60	06:15 19:41	05:29 20:17	05:10 20:46
16	07:32 14:54-15:19/25 16:41	06:59 17:24	07:11 17:01-17:44/43 19:03 15:54-16:54/60	06:14 19:42	05:28 20:18	05:10 20:47
17	07:31 14:56-15:19/23 16:43	06:57 17:26	07:09 17:02-17:42/40 19:04 15:54-16:54/60	06:12 19:43	05:28 20:19	05:10 20:48
18	07:31 14:58-15:17/19 16:44	06:56 17:27	07:07 17:04-17:40/36 19:05 15:54-16:54/60	06:10 19:44	05:27 20:20	05:10 20:49
19	07:31 15:00-15:15/15 16:45	06:54 17:28	07:05 17:07-17:38/31 19:06 15:54-16:54/60	06:09 19:45	05:26 20:21	05:10 20:50
20	07:30 15:04-15:12/8 16:46	06:53 17:29	07:03 17:10-17:35/25 19:07 15:54-16:54/60	06:08 19:46	05:25 20:22	05:10 20:51
21	07:29 15:04-15:12/8 16:47	06:52 17:30	07:02 17:14-17:31/17 19:08 15:54-16:54/60	06:07 19:47	05:24 20:23	05:10 20:52
22	07:29 15:04-15:12/8 16:48	06:51 17:31	07:01 17:14-17:31/17 19:09 15:54-16:54/60	06:06 19:48	05:23 20:24	05:10 20:53
23	07:28 15:04-15:12/8 16:49	06:50 17:32	07:00 17:14-17:31/17 19:10 15:54-16:54/60	06:05 19:49	05:23 20:25	05:10 20:54
24	07:28 15:04-15:12/8 16:50	06:49 17:33	07:00 17:14-17:31/17 19:11 15:54-16:54/60	06:04 19:50	05:23 20:26	05:10 20:55
25	07:27 15:04-15:12/8 16:51	06:48 17:34	07:00 17:14-17:31/17 19:12 15:54-16:54/60	06:03 19:51	05:22 20:27	05:10 20:56
26	07:27 15:04-15:12/8 16:52	06:47 17:35	07:00 17:14-17:31/17 19:13 15:54-16:54/60	06:02 19:52	05:22 20:28	05:10 20:57
27	07:26 15:04-15:12/8 16:53	06:46 17:36	07:00 17:14-17:31/17 19:14 15:54-16:54/60	06:01 19:53	05:21 20:29	05:10 20:58
28	07:26 15:04-15:12/8 16:54	06:45 17:37	07:00 17:14-17:31/17 19:15 15:54-16:54/60	06:00 19:54	05:21 20:30	05:10 20:59
29	07:25 15:04-15:12/8 16:55	06:44 17:38	07:00 17:14-17:31/17 19:16 15:54-16:54/60	05:59 19:55	05:20 20:31	05:10 21:00
30	07:25 15:04-15:12/8 16:56	06:43 17:39	07:00 17:14-17:31/17 19:17 15:54-16:54/60	05:58 19:56	05:20 20:32	05:10 21:01
31	07:24 15:04-15:12/8 16:57	06:42 17:40	07:00 17:14-17:31/17 19:18 15:54-16:54/60	05:57 19:57	05:19 20:33	05:10 21:02
Potential sun hours	286	291	369	404	459	466
Sum of minutes with flicker	698	1641	1100	0	0	406

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 34 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (120)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14	20:04-20:18/14	05:42	06:18			06:54	16:36-17:28/52	06:34	15:36-16:14/38	07:14	14:31-15:03/32
	20:47		20:25	19:35			18:39		16:46		16:18	
2	05:15	20:05-20:17/12	05:43	06:19			06:55	16:35-17:28/53	06:36	15:39-16:12/33	07:15	14:30-15:04/34
	20:47		20:24	19:33			18:37		16:45		16:17	
3	05:15	20:08-20:15/7	05:44	06:21			06:56	16:34-17:30/56	06:37	15:41-16:09/28	07:16	14:31-15:06/35
	20:47		20:23	19:32			18:35		16:44		16:17	
4	05:16		05:45	06:22			06:58	16:33-17:30/57	06:38	15:44-16:07/23	07:17	14:21-14:29/8
	20:47		20:22	19:30			18:33		16:42		16:17	14:30-15:06/36
5	05:17		05:46	06:23			06:59	16:31-17:30/59	06:40	15:48-16:02/14	07:18	14:19-15:07/48
	20:46		20:20	19:28			18:32		16:41		16:16	
6	05:17		05:47	06:24			07:00	16:30-17:30/60	06:41		07:19	14:17-15:08/51
	20:46		20:19	19:26			18:30		16:40		16:16	
7	05:18		05:49	06:25			07:01	16:30-17:31/61	06:42		07:20	14:16-15:09/53
	20:46		20:18	19:24			18:28		16:38		16:16	
8	05:19		05:50	06:26			07:03	16:28-17:31/63	06:44		07:21	14:15-15:09/54
	20:45		20:16	19:22			18:26		16:37		16:16	
9	05:19		05:51	06:28			07:04	08:02-08:13/11	06:45		07:22	14:15-15:10/55
	20:45		20:15	19:21			18:24	16:27-17:30/63	16:36		16:16	
10	05:20		05:52	06:29			07:05	07:59-08:17/18	06:47		07:23	14:15-15:11/56
	20:44		20:13	19:19			18:22	16:27-17:31/64	16:35		16:16	
11	05:21		05:53	06:30			07:06	07:57-08:18/21	06:48		07:24	14:14-15:11/57
	20:44		20:12	19:17			18:21	16:27-17:31/64	16:34		16:16	
12	05:22		05:54	06:31			07:08	07:55-08:19/24	06:49		07:25	14:14-15:12/58
	20:43		20:10	19:15			18:19	16:26-17:30/64	16:32		16:16	
13	05:23		05:56	06:32			07:09	07:54-08:21/27	06:51		07:26	14:15-15:13/58
	20:43		20:09	19:13			18:17	16:26-17:31/65	16:31		16:16	
14	05:23		05:57	06:34			07:10	07:53-08:21/28	06:52		07:27	14:14-15:13/59
	20:42		20:07	19:11			18:15	16:25-17:30/65	16:30		16:16	
15	05:24		05:58	06:35			07:12	07:51-08:21/30	06:53		07:27	14:14-15:13/59
	20:42		20:06	19:09			18:14	16:25-17:30/65	16:29		16:16	
16	05:25		05:59	06:36			07:13	07:51-08:22/31	06:55		07:28	14:14-15:14/60
	20:41		20:04	19:07			18:12	16:25-17:30/65	16:28		16:16	
17	05:26		06:00	06:37			07:14	07:50-08:22/32	06:56		07:29	14:15-15:15/60
	20:40		20:03	19:05			18:10	16:25-17:29/64	16:27		16:17	
18	05:27		06:02	06:38			07:15	07:50-08:22/32	06:57		07:30	14:15-15:15/60
	20:39		20:01	19:04			18:08	16:25-17:28/63	16:26		16:17	
19	05:28		06:03	06:40			07:17	07:50-08:22/32	06:59		07:30	14:15-15:16/61
	20:39		20:00	19:02			18:07	16:25-17:28/63	16:25		16:17	
20	05:29		06:04	06:41			07:18	07:49-08:22/33	07:00		07:31	14:15-15:16/61
	20:38		19:56	19:00			18:05	16:25-17:27/62	16:25		16:18	
21	05:30		06:05	06:42			07:19	07:50-08:22/32	07:01		07:31	14:16-15:17/61
	20:37		19:55	18:58			18:03	16:25-17:26/61	16:24		16:18	
22	05:31		06:06	06:43			07:21	07:50-08:21/31	07:03		07:32	14:16-15:17/61
	20:36		19:53	18:56			18:02	16:26-17:26/60	16:23		16:19	
23	05:32		06:08	06:44	17:00-17:13/13		07:22	07:50-08:20/30	07:04	14:41-14:49/8	07:32	14:17-15:18/61
	20:35		19:51	18:54			18:00	16:26-17:25/59	16:22		16:19	
24	05:33		06:09	06:46	16:54-17:17/23		07:23	07:51-08:20/29	07:05	14:37-14:52/15	07:33	14:17-15:18/61
	20:34		19:49	18:52			17:59	16:28-17:25/57	16:21		16:20	
25	05:34		06:10	06:47	16:50-17:20/30		07:25	07:51-08:19/28	07:06	14:36-14:55/19	07:33	14:19-15:19/60
	20:33		19:48	18:50			17:57	16:28-17:23/55	16:21		16:20	
26	05:35		06:11	06:48	16:47-17:22/35		07:26	07:53-08:18/25	07:08	14:34-14:57/23	07:34	14:19-15:19/60
	20:32		19:46	18:48			17:55	16:29-17:23/54	16:20		16:21	
27	05:36		06:12	06:49	16:44-17:23/39		07:27	07:53-08:17/24	07:09	14:33-14:58/25	07:34	14:19-15:19/60
	20:31		19:44	18:46			17:54	16:30-17:21/51	16:20		16:22	
28	05:37		06:13	06:50	16:43-17:25/42		07:29	07:54-08:15/21	07:10	14:33-15:00/27	07:34	14:20-15:19/59
	20:30		19:42	18:45			17:52	16:30-17:20/50	16:19		16:23	
29	05:38		06:15	06:52	16:41-17:26/45		07:30	07:57-08:13/16	07:11	14:32-15:01/29	07:34	14:20-15:20/60
	20:29		19:41	18:43			17:51	16:32-17:19/47	16:19		16:23	
30	05:40		06:16	06:53	16:38-17:27/49		07:31	07:59-08:10/11	07:13	14:31-15:02/31	07:35	14:22-15:21/59
	20:28		19:39	18:41			17:49	16:33-17:17/44	16:18		16:24	
31	05:41		06:17				07:33	16:35-17:16/41			07:35	14:23-15:21/58
	20:27		19:37				17:48				16:25	
Potential sun hours	472		436	376			341		288		275	
Sum of minutes with flicker	33		0	276			2373		313		1715	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 53

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 35 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (121)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	08:19-08:43/24	07:17		06:36	16:10-17:08/58	06:39	05:48			05:14	19:33-20:08/35
	16:26		17:04		17:44		19:24	20:00			20:35	
2	07:35	08:19-08:43/24	07:16		06:34	16:09-17:08/59	06:37	05:46			05:14	19:32-20:09/37
	16:27		17:06		17:45		19:25	20:01			20:35	
3	07:35	08:20-08:43/23	07:15		06:33	16:08-17:07/59	06:35	05:45			05:13	19:32-20:10/38
	16:28		17:07		17:46		19:26	20:03			20:36	
4	07:35	08:20-08:42/22	07:14		06:31	16:08-17:07/59	06:34	05:43			05:13	19:33-20:11/38
	16:29		17:09		17:48		19:28	20:04			20:37	
5	07:35	08:21-08:43/22	07:13		06:29	16:09-17:08/59	06:32	05:42			05:12	19:32-20:11/39
	16:30		17:10		17:49		19:29	20:05			20:38	
6	07:35	08:22-08:43/21	07:11		06:27	16:08-17:07/59	06:30	05:41			05:12	19:32-20:12/40
	16:31		17:11		17:50		19:30	20:06			20:39	
7	07:35	08:23-08:43/20	07:10		06:26	16:08-17:07/59	06:28	05:39			05:12	19:31-20:12/41
	16:32		17:13		17:52		19:31	20:08			20:39	
8	07:34	08:24-08:43/19	07:09		07:24	17:08-18:06/58	06:26	05:38			05:11	19:31-20:13/42
	16:33		17:14		18:53		19:33	20:09			20:40	
9	07:34	08:24-08:43/19	07:07		07:22	17:08-18:05/57	06:25	05:37			05:11	19:32-20:14/42
	16:34		17:16		18:54		19:34	20:10			20:41	20:13-20:14/1
10	07:34	08:26-08:43/17	07:06		07:20	17:08-18:04/56	06:23	05:35			05:11	19:32-20:15/43
	16:35		17:17		18:56		19:35	20:11			20:41	20:14-20:15/1
11	07:34	08:27-08:41/14	07:05		07:18	17:10-18:05/55	06:21	05:34			05:11	19:32-20:15/43
	16:36		17:19		18:57		19:36	20:12			20:42	20:14-20:15/1
12	07:33	08:29-08:41/12	07:03		07:16	17:10-18:04/54	06:19	05:33			05:10	19:32-20:15/43
	16:38		17:20		18:58		19:38	20:14			20:43	20:14-20:16/2
13	07:33	08:30-08:40/10	07:02	16:33-16:46/13	07:15	17:10-18:02/52	06:17	05:32			05:10	19:31-20:14/43
	16:39		17:21		19:00		19:39	20:15			20:43	20:13-20:16/3
14	07:32	08:34-08:38/4	07:00	16:29-16:51/22	07:13	17:11-18:01/50	06:16	05:30			05:10	19:31-20:14/43
	16:40		17:23		19:01		19:40	20:16			20:44	20:13-20:16/3
15	07:32		06:59	16:26-16:54/28	07:11	17:12-18:00/48	06:14	05:29	19:51-19:52/1		05:10	19:31-20:14/43
	16:41		17:24		19:02		19:41	20:17			20:44	20:13-20:17/4
16	07:31		06:57	16:23-16:55/32	07:09	17:13-17:58/45	06:12	05:28	19:50-19:53/3		05:10	19:32-20:14/42
	16:43		17:26		19:03		19:43	20:18			20:45	20:13-20:17/4
17	07:31		06:56	16:21-16:58/37	07:07	17:14-17:57/43	06:10	05:27	19:49-19:54/5		05:10	19:32-20:14/42
	16:44		17:27		19:05		19:44	20:19			20:45	20:13-20:17/4
18	07:30		06:54	16:19-16:59/40	07:05	17:16-17:56/40	06:09	05:26	19:48-19:55/7		05:10	19:33-20:15/42
	16:45		17:28		19:06		19:45	20:20			20:46	20:14-20:19/5
19	07:29		06:53	16:18-17:01/43	07:03	17:17-17:54/37	06:07	05:25	19:47-19:56/9		05:10	19:33-20:15/42
	16:46		17:30		19:07		19:46	20:22			20:46	20:14-20:19/5
20	07:29		06:51	16:17-17:02/45	07:02	17:19-17:51/32	06:05	05:24	19:47-19:57/10		05:10	19:33-20:15/42
	16:48		17:31		19:09		19:48	20:23			20:46	20:14-20:19/5
21	07:28		06:49	16:15-17:03/48	07:00	17:21-17:48/27	06:04	05:23	19:45-19:58/13		05:11	19:33-20:15/42
	16:49		17:33		19:10		19:49	20:24			20:46	20:14-20:19/5
22	07:27		06:48	16:15-17:04/49	06:58	17:24-17:45/21	06:02	05:22	19:43-20:00/17		05:11	19:33-20:15/42
	16:50		17:34		19:11		19:50	20:25			20:47	20:14-20:19/5
23	07:26		06:46	16:13-17:05/52	06:56	17:30-17:38/8	06:00	05:21	19:41-20:01/20		05:11	19:34-20:16/42
	16:52		17:35		19:12		19:51	20:26			20:47	20:15-20:20/5
24	07:25		06:45	16:12-17:05/53	06:54		05:59	05:20	19:39-20:01/22		05:11	19:34-20:16/42
	16:53		17:37		19:14		19:53	20:27			20:47	20:15-20:20/5
25	07:25		06:43	16:12-17:07/55	06:52		05:57	05:19	19:37-20:02/25		05:12	19:34-20:16/42
	16:54		17:38		19:15		19:54	20:28			20:47	20:15-20:19/4
26	07:24		06:41	16:11-17:07/56	06:50		05:55	05:19	19:36-20:03/27		05:12	19:35-20:16/41
	16:56		17:40		19:16		19:55	20:29			20:47	20:15-20:20/5
27	07:23		06:40	16:10-17:07/57	06:49		05:54	05:18	19:36-20:04/28		05:12	19:34-20:17/43
	16:57		17:41		19:17		19:56	20:30			20:47	20:16-20:20/4
28	07:22		06:38	16:09-17:07/58	06:47		05:52	05:17	19:35-20:05/30		05:13	19:34-20:17/43
	16:59		17:42		19:19		19:58	20:31			20:47	20:16-20:19/3
29	07:21				06:45		05:51	05:16	19:35-20:06/31		05:13	19:35-20:18/43
	17:00				19:20		19:59	20:32			20:47	20:17-20:20/3
30	07:20				06:43		05:49	05:16	19:34-20:07/33		05:14	19:35-20:18/43
	17:01				19:21		20:00	20:33			20:47	20:17-20:19/2
31	07:19				06:41			05:15	19:33-20:07/34			
	17:03				19:23			20:34				
Potential sun hours	286		291		369		404	459			466	
Sum of minutes with flicker	251		688		1095		0	315			1301	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 54

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 35 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (121)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14	19:36-20:19/43	05:42	06:18			06:54	16:49-17:42/53	06:34		07:14	08:09-08:23/14
	20:47	20:18-20:20/2	20:25	19:35			18:39		16:46		16:18	
2	05:15	19:36-20:19/43	05:43	06:19			06:55	16:48-17:42/54	06:36		07:15	08:09-08:26/17
	20:47	20:18-20:19/1	20:24	19:33			18:37		16:45		16:17	
3	05:15	19:37-20:19/42	05:44	06:21			06:56	16:47-17:43/56	06:37		07:16	08:08-08:27/19
	20:47	20:18-20:19/1	20:23	19:32			18:35		16:44		16:17	
4	05:16	19:36-20:18/42	05:45	06:22			06:58	16:46-17:43/57	06:38		07:17	08:08-08:27/19
	20:47		20:22	19:30			18:33		16:42		16:17	
5	05:17	19:37-20:19/42	05:46	06:23			06:59	16:45-17:43/58	06:40		07:18	08:08-08:28/20
	20:46		20:20	19:28			18:32		16:41		16:16	
6	05:17	19:38-20:19/41	05:47	06:24			07:00	16:44-17:42/58	06:41		07:19	08:08-08:29/21
	20:46		20:19	19:26			18:30		16:40		16:16	
7	05:18	19:38-20:18/40	05:49	06:25			07:01	16:44-17:43/59	06:42		07:20	08:08-08:30/22
	20:46		20:18	19:24			18:28		16:38		16:16	
8	05:19	19:39-20:18/39	05:50	06:26			07:03	16:44-17:42/58	06:44		07:21	08:08-08:30/22
	20:45		20:16	19:22			18:26		16:37		16:16	
9	05:19	19:39-20:18/39	05:51	06:28			07:04	16:43-17:42/59	06:45		07:22	08:08-08:31/23
	20:45		20:15	19:21			18:24		16:36		16:16	
10	05:20	19:40-20:17/37	05:52	06:29			07:05	16:43-17:42/59	06:47		07:23	08:08-08:32/24
	20:44		20:13	19:19			18:22		16:35		16:16	
11	05:21	19:40-20:16/36	05:53	06:30			07:06	16:43-17:42/59	06:48		07:24	08:09-08:33/24
	20:44		20:12	19:17			18:21		16:34		16:16	
12	05:22	19:41-20:16/35	05:54	06:31			07:08	16:42-17:41/59	06:49		07:25	08:09-08:33/24
	20:43		20:10	19:15			18:19		16:32		16:16	
13	05:23	19:42-20:15/33	05:56	06:32			07:09	16:43-17:41/58	06:51		07:26	08:09-08:34/25
	20:43		20:09	19:13			18:17		16:31		16:16	
14	05:23	19:43-20:15/32	05:57	06:34			07:10	16:43-17:40/57	06:52		07:27	08:09-08:34/25
	20:42		20:07	19:11			18:15		16:30		16:16	
15	05:24	19:44-20:15/31	05:58	06:35			07:12	16:43-17:39/56	06:53		07:27	08:10-08:35/25
	20:42		20:06	19:09			18:14		16:29		16:16	
16	05:25	19:45-20:14/29	05:59	06:36			07:13	16:44-17:39/55	06:55		07:28	08:10-08:35/25
	20:41		20:04	19:07			18:12		16:28		16:16	
17	05:26	19:45-20:13/28	06:00	06:37			07:14	16:44-17:38/54	06:56		07:29	08:11-08:36/25
	20:40		20:03	19:05			18:10		16:27		16:17	
18	05:27	19:46-20:12/26	06:02	06:38			07:15	16:44-17:36/52	06:57		07:30	08:11-08:36/25
	20:39		20:01	19:04			18:08		16:26		16:17	
19	05:28	19:48-20:11/23	06:03	06:40			07:17	16:45-17:36/51	06:59		07:30	08:12-08:37/25
	20:39		19:58	19:02			18:07		16:25		16:17	
20	05:29	19:49-20:11/22	06:04	06:41			07:18	16:45-17:35/50	07:00		07:31	08:11-08:37/26
	20:38		19:56	19:00			18:05		16:25		16:18	
21	05:30	19:51-20:10/19	06:05	06:42	17:11-17:29/18		07:19	16:46-17:33/47	07:01		07:31	08:12-08:38/26
	20:37		19:55	18:58			18:03		16:24		16:18	
22	05:31	19:53-20:09/16	06:06	06:43	17:07-17:32/25		07:21	16:48-17:32/44	07:03		07:32	08:12-08:38/26
	20:36		19:53	18:56			18:02		16:23		16:19	
23	05:32	19:57-20:08/11	06:08	06:44	17:04-17:35/31		07:22	16:48-17:30/42	07:04		07:32	08:13-08:39/26
	20:35		19:51	18:54			18:00		16:22		16:19	
24	05:33	19:58-20:07/9	06:09	06:46	17:01-17:37/36		07:23	16:50-17:29/39	07:05		07:33	08:13-08:39/26
	20:34		19:49	18:52			17:59		16:21		16:20	
25	05:34	19:58-20:06/8	06:10	06:47	16:59-17:38/39		07:25	16:52-17:27/35	07:06		07:33	08:15-08:40/25
	20:33		19:48	18:50			17:57		16:21		16:20	
26	05:35	19:59-20:05/6	06:11	06:48	16:57-17:39/42		07:26	16:53-17:25/32	07:08		07:34	08:15-08:40/25
	20:32		19:46	18:48			17:55		16:20		16:21	
27	05:36	20:00-20:04/4	06:12	06:49	16:55-17:39/44		07:27	16:56-17:23/27	07:09		07:34	08:15-08:40/25
	20:31		19:44	18:46			17:54		16:20		16:22	
28	05:37	20:01-20:03/2	06:13	06:50	16:54-17:41/47		07:29	16:59-17:19/20	07:10	08:14-08:17/3	07:34	08:15-08:40/25
	20:30		19:42	18:45			17:52		16:19		16:23	
29	05:38		06:15	06:52	16:52-17:41/49		07:30	17:04-17:14/10	07:11	08:11-08:20/9	07:34	08:17-08:42/25
	20:29		19:41	18:43			17:51		16:19		16:23	
30	05:40		06:16	06:53	16:50-17:42/52		07:31		07:13	08:10-08:22/12	07:35	08:17-08:42/25
	20:28		19:39	18:41			17:49		16:18		16:24	
31	05:41		06:17				07:33				07:35	08:18-08:42/24
	20:27		19:37				17:48				16:25	
Potential sun hours	472		436	376			341		288		275	
Sum of minutes with flicker	779		0	383			1418		24		728	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 55

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 36 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (122)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35 16:26	07:17 17:04	16:06-16:28/22	06:36 17:44	15:48-16:49/61 16:49-17:15/26	06:39 19:24	18:41-19:01/20	05:48 20:00	18:19-19:34/75 19:34-19:37/3	05:14 20:35	18:28-20:00/92
2	07:35 16:27	07:16 17:06	16:04-16:31/27	06:34 17:45	15:48-16:48/60 16:48-17:15/27	06:37 19:25	18:41-19:02/21	05:46 20:01	18:18-19:33/75 19:33-19:37/4	05:14 20:35	18:28-19:59/91
3	07:35 16:28	07:15 17:07	16:02-16:33/31	06:33 17:46	15:49-16:47/58 16:47-17:14/27	06:36 19:26	18:41-19:04/23	05:45 20:03	18:18-19:33/75 19:33-19:39/6	05:13 20:36	18:29-19:59/90
4	07:35 16:29	07:14 17:09	16:00-16:36/36	06:31 17:48	15:49-16:46/57 16:46-17:14/28	06:34 19:28	18:41-19:05/24	05:43 20:04	18:18-19:33/75 19:33-19:40/7	05:13 20:37	18:30-19:59/89
5	07:35 16:30	07:13 17:10	15:58-16:37/39	06:29 17:49	15:51-16:45/54 16:45-17:14/29	06:32 19:29	18:41-19:06/25	05:42 20:05	18:17-19:32/75 19:32-19:41/9	05:12 20:38	18:30-19:58/88
6	07:35 16:31	07:11 17:11	15:57-16:39/42	06:27 17:50	15:51-16:44/53 16:44-17:14/30	06:30 19:30	18:41-19:05/24	05:41 20:06	18:17-19:32/75 19:32-19:42/10	05:12 20:39	18:31-19:58/87
7	07:35 16:32	07:10 17:13	15:56-16:41/45	06:26 17:52	15:52-16:43/51 16:43-17:13/30	06:28 19:31	18:41-19:03/22	05:39 20:08	18:18-19:44/86 18:56-19:30/34	05:12 20:39	18:32-19:57/85
8	07:34 16:33	07:09 17:14	15:54-16:41/47	07:24 18:53	16:53-17:41/48 17:41-18:12/31	06:26 19:33	18:40-19:01/21	05:38 20:09	18:17-19:44/87 18:56-19:29/33	05:11 20:40	18:32-19:57/85
9	07:34 16:34	07:07 17:16	15:54-16:43/49	07:22 18:54	16:54-17:39/45 17:39-18:11/32	06:25 19:34	18:41-18:59/18	05:37 20:10	18:17-19:46/89 18:57-19:28/31	05:11 20:41	18:32-19:57/85
10	07:34 16:35	07:06 17:17	15:52-16:44/52	07:20 18:56	16:56-17:37/41 17:37-18:10/33	06:23 19:35	18:42-18:53/11	05:35 20:11	18:17-19:47/90 18:58-19:28/30	05:11 20:41	18:33-19:57/84
11	07:33 16:36	07:05 17:19	15:52-16:45/53	07:18 18:57	16:58-17:36/38 17:36-18:09/33	06:21 19:36	18:42-19:05/23	05:34 20:12	18:18-19:48/90 19:00-19:27/27	05:11 20:42	18:34-19:57/83
12	07:33 16:38	07:03 17:20	15:51-16:46/55	07:16 18:58	17:00-17:34/34 17:34-18:08/34	06:19 19:38	18:43-19:04/21	05:33 20:14	18:18-19:49/91 19:01-19:26/25	05:10 20:43	18:35-19:57/82
13	07:33 16:39	07:02 17:21	15:50-16:47/57	07:15 19:00	17:03-17:30/27 17:34-18:06/32	06:17 19:39	18:44-19:04/20	05:32 20:15	18:17-19:50/93 19:01-19:23/22	05:10 20:43	18:34-19:56/82
14	07:32 16:40	07:00 17:23	15:50-16:48/58	07:13 19:01	17:06-17:25/19 17:35-18:04/29	06:16 19:40	18:40-19:01/21	05:30 20:16	18:18-19:51/93 19:03-19:22/19	05:10 20:44	18:35-19:56/81
15	07:32 16:41	06:59 17:24	15:49-16:48/59	07:11 19:02	17:15-17:16/1 17:37-18:01/24	06:14 19:41	18:37-18:56/19	05:29 20:17	18:18-19:52/94 19:05-19:20/15	05:10 20:44	18:35-19:56/81
16	07:31 16:43	06:57 17:26	15:48-16:49/61	07:09 19:03	17:40-17:58/18 16:49-17:01/12	06:12 19:43	18:34-19:19/45	05:28 20:18	18:18-19:53/95 19:08-19:17/9	05:10 20:45	18:36-19:56/80
17	07:31 16:44	06:56 17:27	15:48-16:50/62	07:07 19:05	17:44-17:52/8 16:50-17:03/13	06:10 19:44	18:33-19:20/47	05:27 20:19	18:19-19:54/95 19:01-19:26/25	05:10 20:45	18:36-19:55/79
18	07:30 16:45	06:54 17:28	15:47-16:50/63	07:05 19:06	16:50-17:04/14 16:50-17:04/14	06:09 19:45	18:31-19:21/50	05:26 20:20	18:19-19:55/96 19:01-19:23/22	05:10 20:45	18:37-19:56/79
19	07:29 16:46	06:53 17:30	15:48-16:51/63	07:03 19:07	16:51-17:06/15 16:51-17:06/15	06:07 19:46	18:29-19:22/53	05:25 20:22	18:20-19:56/96 19:01-19:23/22	05:10 20:46	18:37-19:56/79
20	07:29 16:48	06:51 17:31	15:47-16:51/64	07:02 19:09	15:47-17:07/16 16:51-17:07/16	06:05 19:48	18:28-19:24/56	05:24 20:23	18:20-19:57/97 19:01-19:23/22	05:10 20:46	18:38-19:56/78
21	07:28 16:49	06:49 17:33	15:47-16:50/63	07:00 19:10	15:47-16:50/63 16:50-17:09/19	06:04 19:49	18:26-19:25/59	05:23 20:24	18:20-19:58/98 19:01-19:23/22	05:11 20:46	18:38-19:56/78
22	07:27 16:50	06:48 17:34	15:47-16:51/64	06:58 19:11	15:47-16:51/64 16:51-17:11/20	06:02 19:50	18:24-19:26/62	05:22 20:25	18:22-20:00/98 19:01-19:23/22	05:11 20:47	18:38-19:56/78
23	07:26 16:52	06:46 17:35	15:47-16:51/64	06:56 19:12	15:47-16:51/64 16:51-17:12/21	06:00 19:51	18:24-19:27/63	05:21 20:26	18:22-20:01/99 19:01-19:23/22	05:11 20:47	18:39-19:57/78
24	07:25 16:53	06:45 17:37	15:46-16:50/64	06:54 19:14	15:46-16:50/64 16:50-17:13/23	05:59 19:53	18:23-19:28/65	05:20 20:27	18:22-20:01/99 19:01-19:23/22	05:11 20:47	18:38-19:57/79
25	07:25 16:54	06:43 17:38	15:47-16:51/64	06:52 19:15	15:47-16:51/64 16:51-17:14/23	05:57 19:54	18:22-19:30/68	05:19 20:28	18:23-20:00/97 19:01-19:23/22	05:12 20:47	18:38-19:57/79
26	07:24 16:56	06:41 17:40	15:47-16:50/63	06:50 19:16	15:47-16:50/63 16:50-17:14/24	05:55 19:55	18:21-19:31/70	05:19 20:29	18:24-20:00/96 19:01-19:23/22	05:12 20:47	18:39-19:59/80
27	07:23 16:57	06:40 17:41	15:47-16:49/62	06:49 19:17	15:47-16:49/62 16:49-17:14/25	05:54 19:56	18:21-19:32/71	05:18 20:30	18:24-20:01/97 19:01-19:23/22	05:12 20:47	18:38-19:59/81
28	07:22 16:59	06:38 17:42	15:47-16:49/62	06:47 19:19	15:47-16:49/62 16:49-17:14/25	05:52 19:58	18:20-19:33/73	05:17 20:31	18:25-20:00/95 19:01-19:23/22	05:13 20:47	18:38-19:59/81
29	07:21 17:00			06:45 19:20	18:44-18:57/13	05:51 19:59	18:20-19:34/74	05:16 20:32	18:26-20:01/95 19:01-19:23/22	05:13 20:47	18:38-20:00/82
30	07:20 17:01			06:43 19:21	18:43-18:59/16	05:49 20:00	18:19-19:34/75	05:16 20:33	18:26-20:00/94 19:01-19:23/22	05:14 20:47	18:38-20:00/82
31	07:19 17:03	16:11-16:24/13		06:41 19:23	18:42-19:00/18		19:34-19:35/1	05:15 20:34	18:26-19:59/93		
Potential sun hours		286		291		369		404		459	
Sum of minutes with flicker		13	1741	1190	1314	2842	2478				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 56

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 36 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (122)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14 18:38-20:01/83	05:42 18:28-19:59/91	06:18 18:41-19:04/23	06:54 16:40-17:10/30	06:34 15:22-16:13/51	07:14					
	20:47	20:25 19:10-19:36/26	19:35	18:39 17:12-17:46/34	16:46						16:18
2	05:15 18:38-20:01/83	05:43 18:28-19:58/90	06:19 18:40-18:51/11	06:55 16:37-17:13/36	06:36 15:24-16:13/49	07:15					
	20:47	20:24 19:10-19:38/28	19:33 18:51-19:05/14	18:37 17:13-17:46/33	16:45						16:17
3	05:15 18:38-20:02/84	05:44 18:28-19:57/89	06:21 18:38-18:56/18	06:56 16:35-17:15/40	06:37 15:24-16:11/47	07:16					
	20:47	20:23 19:09-19:38/29	19:32 18:56-19:05/9	18:35 17:15-17:48/33	16:44						16:17
4	05:16 18:37-20:02/85	05:45 18:28-19:56/88	06:22 18:38-18:59/21	06:58 16:33-17:16/43	06:38 15:26-16:10/44	07:17					
	20:47	20:22 19:08-19:39/31	19:30 18:59-19:06/7	18:33 17:16-17:48/32	16:42						16:17
5	05:17 18:37-20:03/86	05:46 18:27-19:54/87	06:23 18:38-19:00/22	06:59 16:31-17:17/46	06:40 15:27-16:09/42	07:18					
	20:46	20:20 19:07-19:40/33	19:28 19:00-19:05/5	18:32 17:17-17:48/31	16:41						16:16
6	05:17 18:37-20:04/87	05:48 18:27-19:53/86	06:24 18:37-19:01/24	07:00 16:29-17:18/49	06:41 15:28-16:07/39	07:19					
	20:46	20:19 19:06-19:40/34	19:26 19:01-19:03/2	18:30 17:18-17:48/30	16:40						16:16
7	05:18 18:36-20:04/88	05:49 18:27-19:41/74	06:25 18:36-19:01/25	07:01 16:28-17:19/51	06:42 15:30-16:05/35	07:20					
	20:46	20:18 19:41-19:52/11	19:24	18:28 17:19-17:49/30	16:38						16:16
8	05:19 18:36-20:05/89	05:50 18:27-19:42/75	06:27 18:36-18:59/23	07:03 16:26-17:20/54	06:44 15:32-16:03/31	07:21					
	20:45	20:16 19:42-19:50/8	19:22	18:26 17:20-17:49/29	16:37						16:16
9	05:19 18:36-20:06/90	05:51 18:27-19:42/75	06:28 18:35-18:57/22	07:04 16:24-17:20/56	06:45 15:35-16:01/26	07:22					
	20:45	20:15 19:42-19:49/7	19:21	18:24 17:20-17:49/29	16:36						16:16
10	05:20 18:36-20:07/91	05:52 18:26-19:42/76	06:29 18:34-18:55/21	07:05 16:24-17:21/57	06:47 15:38-15:58/20	07:23					
	20:44	20:13 19:42-19:47/5	19:19	18:22 17:21-17:49/28	16:35						16:16
11	05:21 18:35-20:07/92	05:53 18:26-19:42/76	06:30 18:34-18:54/20	07:06 16:23-17:21/58	06:48 15:43-15:54/11	07:24					
	20:44	20:12 19:42-19:46/4	19:17	18:21 17:21-17:49/28	16:34						16:16
12	05:22 18:35-20:07/92	05:55 18:27-19:43/76	06:31 18:34-18:52/18	07:08 16:21-17:21/60	06:49	07:25					
	20:43	20:10 19:43-19:45/2	19:15	18:19 17:21-17:48/27	16:32						16:16
13	05:23 18:35-20:08/93	05:56 18:27-19:42/75	06:32 18:34-18:50/16	07:09 16:21-17:22/61	06:51	07:26					
	20:43	20:09 19:42-19:44/2	19:13	18:17 17:22-17:48/26	16:31						16:16
14	05:23 18:34-20:09/95	05:57 18:27-19:42/75	06:34 18:34-18:48/14	07:10 16:20-17:22/62	06:52	07:27					
	20:42	20:07	19:11	18:15 17:22-17:48/26	16:30						16:16
15	05:24 18:34-20:09/95	05:58 18:27-19:40/73	06:35 18:34-18:46/12	07:12 16:19-17:22/63	06:53	07:27					
	20:42	20:06	19:09	18:14 17:22-17:47/25	16:29						16:16
16	05:25 18:34-20:10/96	05:59 18:28-19:39/71	06:36 18:35-18:44/9	07:13 16:19-17:22/63	06:55	07:28					
	20:41	20:04	19:07	18:12 17:22-17:47/25	16:28						16:17
17	05:26 18:33-20:09/96	06:00 18:28-19:37/69	06:37 18:36-18:42/6	07:14 16:19-17:22/63	06:56	07:29					
	20:40	20:03	19:05	18:10 17:22-17:45/23	16:27						16:17
18	05:27 18:32-20:10/98	06:02 18:28-19:35/67	06:38 18:39-18:41/2	07:15 16:18-17:22/64	06:57	07:30					
	20:39	20:01	19:04	18:08 17:22-17:44/22	16:26						16:17
19	05:28 18:32-20:10/98	06:03 18:28-19:34/66	06:40	07:17 16:18-17:22/64	06:59	07:30					
	20:39	19:58	19:02	18:07 17:22-17:43/21	16:25						16:17
20	05:29 18:32-20:10/98	06:04 18:30-19:33/63	06:41	07:18 16:18-17:21/63	07:00	07:31					
	20:38	19:56	19:00	18:05 17:21-17:41/20	16:25						16:18
21	05:30 18:31-20:10/99	06:05 18:30-19:31/61	06:42	07:19 16:17-17:21/64	07:01	07:31					
	20:37	19:55	18:58	18:03 17:21-17:39/18	16:24						16:18
22	05:31 18:31-20:09/98	06:06 18:31-19:29/58	06:43	07:21 16:18-17:21/63	07:03	07:32					
	20:36	19:53	18:56	18:02 17:21-17:37/16	16:23						16:19
23	05:32 18:31-20:08/97	06:08 18:32-19:28/56	06:44	07:22 16:17-17:20/63	07:04	07:32					
	20:35	19:51	18:54	18:00 17:20-17:35/15	16:22						16:19
24	05:33 18:30-20:07/97	06:09 18:33-19:26/53	06:46	07:23 16:18-17:20/62	07:05	07:33					
	20:34	19:49	18:52	17:59 17:20-17:34/14	16:22						16:20
25	05:34 18:30-20:06/96	06:10 18:34-19:24/50	06:47	07:25 16:18-17:19/61	07:06	07:33					
	20:33	19:48	18:50	17:57 17:19-17:32/13	16:21						16:20
26	05:35 18:30-20:05/95	06:11 18:35-19:22/47	06:48	07:26 16:18-17:18/60	07:08	07:34					
	20:32	19:46	18:48	17:55 17:18-17:29/11	16:20						16:21
27	05:36 18:29-20:04/95	06:12 18:37-19:21/44	06:49 17:23-17:38/15	07:27 16:19-17:17/58	07:09	07:34					
	20:31	19:22-19:24/2	18:46	17:54	16:20						16:22
28	05:37 18:29-20:03/94	06:13 18:39-18:58/19	06:50 17:20-17:42/22	07:29 16:19-17:16/57	07:10	07:34					
	20:30	19:17-19:29/12	18:45	17:52	16:19						16:23
29	05:38 18:29-20:02/93	06:15 18:41-19:02/21	06:52 16:49-17:04/15	07:30 16:20-17:16/56	07:11	07:34					
	20:29	19:15-19:32/17	19:41 19:02-19:11/9	18:43 17:17-17:43/26	17:51						16:23
30	05:40 18:28-20:01/93	06:16 18:44-19:04/20	06:53 16:44-17:08/24	07:31 16:20-17:15/55	07:13	07:35					
	20:28	19:13-19:33/20	19:39 19:04-19:08/4	18:41 17:14-17:45/31	17:49						16:24
31	05:41 18:28-20:00/92	06:17 18:43-19:04/21		07:33 16:22-17:15/53		07:35					
	20:27	19:11-19:35/24	19:37	17:48		16:25					16:25
Potential sun hours		472		376		341		288		275	
Sum of minutes with flicker		2892	436	2061	477	2374		395		0	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 57

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 37 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (123)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June			
1	07:35	15:17-15:57/40	07:17	15:42-16:30/48	06:36	07:07-07:34/27	06:39	07:17-07:26/9	18:18-18:55/37	05:48		05:14	05:52-06:13/21	
	16:26		17:04	16:30-16:35/5	17:44	16:35-16:54/19		19:24	18:11-18:18/7	20:00		20:35	19:26-20:09/43	
2	07:35	15:17-15:58/41	07:16	15:44-16:31/47	06:34	07:07-07:33/26	06:37	18:11-18:56/45		05:46		05:14	05:52-06:12/20	
	16:27		17:06	16:31-16:36/5	17:45	16:37-16:51/14	19:25			20:01		20:36	19:26-20:09/43	
3	07:35	15:18-15:59/41	07:15	15:46-16:31/45	06:33	07:07-07:32/25	06:35	18:12-18:57/45		05:45		05:13	05:53-06:13/20	
	16:28		17:07	16:31-16:37/6	17:46	16:42-16:45/3	19:26			20:03		20:36	19:26-20:10/44	
4	07:35	15:17-15:58/41	07:14	15:48-16:31/43	06:31	07:08-07:31/23	06:34	18:15-18:59/44		05:43		05:13	05:53-06:12/19	
	16:29		17:08	16:31-16:38/7	17:48		19:28			20:04		20:37	19:25-20:10/45	
5	07:35	15:18-16:00/42	07:13	15:49-16:30/41	06:29	07:10-07:30/20	06:32	18:16-19:00/44		05:42		05:12	05:54-06:12/18	
	16:30		17:10	16:30-16:37/7	17:49		19:29			20:05		20:38	19:26-20:10/44	
6	07:35	15:19-16:01/42	07:11	15:50-16:30/40	06:27	07:12-07:27/15	06:30	18:20-19:00/40		05:40		05:12	05:55-06:12/17	
	16:31		17:11	16:30-16:38/8	17:50		19:30			20:06		20:39	19:26-20:11/45	
7	07:35	15:20-16:02/42	07:10	15:53-16:30/37	06:25	07:14-07:24/10	06:28	18:20-19:00/40		05:39		05:11	05:55-06:10/15	
	16:32		17:13	16:30-16:38/8	17:52	17:07-17:22/15	19:31			20:08		20:39	19:26-20:11/45	
8	07:34	15:20-16:04/44	07:09	15:54-16:28/34	07:24	18:05-18:24/19	06:26	18:19-19:00/41		05:38	05:59-06:03/4	05:11	05:56-06:10/14	
	16:33		17:14	16:27-16:38/11	18:53	18:24-18:25/1	19:33			20:09		20:40	19:26-20:11/45	
9	07:34	15:20-16:04/44	07:07	15:59-16:27/28	07:22	18:02-18:25/23	06:24	18:19-19:01/42		05:36	05:58-06:07/9	05:11	05:57-06:10/13	
	16:34		17:16	16:26-16:38/12	18:54	18:25-18:26/1	19:34			20:10		20:41	19:26-20:12/46	
10	07:34	15:21-16:06/45	07:06	15:59-16:24/25	07:20	18:01-18:27/26	06:23	18:18-19:01/43		05:35	05:57-06:09/12	05:11	05:58-06:10/12	
	16:35		17:17	16:23-16:37/14	18:56		19:35			20:11		20:42	19:26-20:12/46	
11	07:34	15:21-16:06/45	07:05	16:01-16:26/25	16:42-16:49/7	07:18	18:00-18:29/29	06:21	18:17-19:01/44		05:34	05:56-06:11/15	05:10	06:00-06:09/9
	16:36		17:18	16:26-16:37/11	18:57	18:28-18:29/1	19:36			20:12		20:42	19:26-20:12/46	
12	07:33	15:21-16:08/47	07:03	16:04-16:25/21	16:39-16:53/14	07:16	17:59-18:28/29	06:19	18:17-19:00/43		05:33	05:54-06:11/17	05:10	06:00-06:08/8
	16:37		17:20	16:25-16:37/12	18:58	18:26-18:30/4	19:38			20:14		20:43	19:26-20:12/46	
13	07:33	15:21-16:09/48	07:02	16:06-16:23/17	16:36-16:54/18	07:15	17:58-18:30/32	06:17	18:16-19:00/44		05:31	05:53-06:12/19	05:10	06:01-06:07/6
	16:39		17:21	16:23-16:35/12	18:59	18:29-18:31/2	19:39			20:15		20:43	19:26-20:12/46	
14	07:32	15:22-16:11/49	07:00	16:10-16:20/10	16:35-16:56/21	07:13	17:57-18:31/34	06:15	18:17-19:00/43		05:30	05:52-06:12/20	05:10	06:02-06:06/4
	16:40		17:23	16:20-16:34/14	19:01		19:40			20:16		20:44	19:27-20:13/46	
15	07:32	15:22-16:12/50	06:59	16:17-16:32/15	19:01	17:57-18:32/35	06:14	18:16-19:00/44		05:29	05:51-06:13/22	05:10	19:27-20:13/46	
	16:41		17:24	16:33-16:57/24	19:02		19:41			20:17	19:43-19:49/6	20:44		
16	07:31	15:24-16:13/49	06:57	16:19-16:29/10	19:02	17:56-18:32/36	06:12	18:16-18:59/43		05:28	05:50-06:13/23	05:10	19:27-20:13/46	
	16:42		17:26	16:32-16:58/26	19:03		19:43			20:18	19:39-19:53/14	20:45		
17	07:31	15:24-16:15/51	06:56	07:17-07:26/9	19:03	17:56-18:33/37	06:10	18:17-18:59/42		05:27	05:49-06:14/25	05:10	19:27-20:13/46	
	16:44		17:27	16:32-16:59/27	19:05		19:44			20:19	19:36-19:54/18	20:45		
18	07:30	15:24-16:16/52	06:54	07:15-07:29/14	19:05	17:56-18:34/38	06:09	18:17-18:58/41		05:26	05:48-06:14/26	05:10	19:27-20:14/47	
	16:45		17:28	16:31-16:59/28	19:06		19:45			20:20	19:34-19:55/21	20:46		
19	07:29	15:25-16:17/52	06:53	07:14-07:32/18	19:06	17:57-18:35/38	06:07	18:17-18:57/40		05:25	05:48-06:14/26	05:10	19:27-20:14/47	
	16:46		17:30	16:31-17:00/29	19:07	17:57-18:35/38	19:46			20:22	19:33-19:56/23	20:46		
20	07:29	15:26-16:19/53	06:51	07:12-07:32/20	19:07	17:57-18:35/38	06:05	18:18-18:56/38		05:24	05:48-06:14/26	05:10	19:28-20:15/47	
	16:48		17:31	16:30-17:00/30	19:09	17:57-18:35/38	19:48			20:23	19:32-19:57/25	20:46		
21	07:28	15:27-16:21/54	06:49	07:10-07:33/23	19:07	17:57-18:35/38	06:03	18:19-18:55/36		05:23	05:47-06:14/27	05:10	19:28-20:15/47	
	16:49		17:33	16:30-17:00/30	19:10	17:57-18:35/38	19:49			20:24	19:31-19:58/27	20:47		
22	07:27	15:27-16:22/55	06:48	07:09-07:35/26	19:10	17:57-18:35/38	06:02	18:19-18:53/34		05:22	05:47-06:14/27	05:11	19:28-20:15/47	
	16:50		17:34	16:30-17:00/30	19:11	17:57-18:34/37	19:50			20:25	19:30-19:59/29	20:47		
23	07:26	15:28-16:23/55	06:46	07:08-07:35/27	19:11	17:57-18:34/37	06:00	18:21-18:53/32		05:21	05:48-06:15/27	05:11	19:28-20:15/47	
	16:52		17:35	16:30-16:59/29	19:12	17:57-18:34/37	19:51			20:26	19:30-20:01/31	20:47		
24	07:25	15:29-16:25/56	06:45	07:07-07:35/28	19:12	17:57-18:34/37	05:59	18:21-18:51/30		05:20	05:48-06:15/27	05:11	19:29-20:16/47	
	16:53		17:37	16:30-16:59/29	19:14	17:57-18:33/36	19:53			20:27	19:29-20:02/33	20:47		
25	07:25	15:31-16:26/55	06:43	07:07-07:36/29	19:14	17:57-18:33/36	05:57	18:23-18:49/26		05:19	05:48-06:14/26	05:11	19:29-20:16/47	
	16:54		17:38	16:31-16:59/28	19:15	17:58-18:32/34	19:54			20:28	19:28-20:02/34	20:47		
26	07:24	15:32-16:27/55	06:41	07:07-07:35/28	19:15	17:58-18:32/34	05:55	18:25-18:47/22		05:18	05:48-06:14/26	05:12	19:29-20:15/46	
	16:56		17:39	16:32-16:58/26	19:16	17:58-18:31/33	19:55			20:29	19:27-20:03/36	20:47		
27	07:23	15:33-16:28/55	06:39	07:06-07:35/29	19:16	17:58-18:31/33	05:54	18:28-18:45/17		05:18	05:49-06:14/25	05:12	19:30-20:16/46	
	16:57		17:41	16:32-16:56/24	19:17	17:59-18:30/31	19:56			20:30	19:28-20:05/37	20:47		
28	07:22	15:35-16:29/54	06:38	07:07-07:35/28	19:17	17:59-18:30/31	05:52	18:31-18:40/9		05:17	05:50-06:14/24	05:13	06:06-06:09/3	
	16:58		17:42	16:33-16:55/22	19:19	18:02-18:30/28	19:58			20:31	19:27-20:05/38	20:47	19:30-20:16/46	
29	07:21	15:36-16:30/54			19:19	18:02-18:30/28	05:51			05:16	05:50-06:13/23	05:13	06:05-06:11/6	
	17:00				19:20	18:04-18:28/24	19:59			20:32	19:26-20:06/40	20:47	19:30-20:17/47	
30	07:20	15:39-16:31/52			19:20	18:04-18:28/24	05:49			05:15	05:51-06:14/23	05:13	06:04-06:12/8	
	17:01				19:21	18:06-18:26/20	20:00			20:33	19:27-20:07/40	20:47	19:30-20:16/46	
31	07:19	15:41-16:31/50			19:21	18:06-18:26/20				05:15	05:51-06:13/22			
	17:03				19:22	18:08-18:23/15				20:34	19:26-20:07/41			
Potential sun hours	286		291		369		404			459		466		
Sum of minutes with flicker	1527		1337		1339		1065			1014		1588		

Table layout: For each day in each month the following matrix apply</

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 58

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 37 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (123)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:14	06:04-06:13/9	05:42	06:05-06:21/16	06:18	18:16-19:00/44				06:54	17:37-18:08/31		06:34	15:29-15:54/25		07:14	15:03-15:49/46	
	20:47	19:31-20:17/46	20:25		19:35					18:39	18:07-18:09/2		16:46	15:53-16:07/14		16:17	15:47-15:49/2	
2	05:15	06:03-06:14/11	05:43	06:06-06:20/14	06:19	18:16-18:59/43				06:55	17:38-18:07/29		06:36	15:28-15:57/29		07:15	15:04-15:49/45	
	20:47	19:31-20:16/45	20:24		19:33					18:37	18:06-18:07/1		16:45	15:56-16:08/12		16:17	15:48-15:49/1	
3	05:15	06:03-06:15/12	05:44	06:08-06:19/11	06:20	18:16-18:58/42				06:56	17:39-18:07/28		06:37	15:24-15:58/34		07:16	15:04-15:48/44	
	20:47	19:31-20:17/46	20:23		19:32					18:35			16:44	15:58-16:07/9		16:17	15:48-15:49/1	
4	05:16	06:02-06:15/13	05:45	06:09-06:17/8	06:22	18:17-18:58/41				06:58	17:39-18:04/25		06:38	15:22-16:00/38		07:17	15:04-15:48/44	
	20:47	19:31-20:17/46	20:22		19:30					18:33	18:04-18:05/1		16:42	16:00-16:08/8		16:16		
5	05:16	06:02-06:16/14	05:46		06:23	18:17-18:57/40				06:59	17:40-18:02/22		06:40	15:20-15:59/39		07:18	15:05-15:47/42	
	20:46	19:32-20:17/45	20:20		19:28					18:31			16:41	15:59-16:08/9		16:16		
6	05:17	06:02-06:17/15	05:47		06:24	18:16-18:56/40				07:00	07:54-07:58/4		06:41	15:19-16:01/42		07:19	15:05-15:47/42	
	20:46	19:32-20:17/45	20:19		19:26					18:30	17:42-17:59/17		16:40	16:01-16:08/7		16:16		
7	05:18	06:01-06:18/17	05:48		06:25	18:12-18:55/43				07:01	07:49-08:02/13		06:42	15:17-16:01/44		07:20	15:05-15:47/42	
	20:46	19:32-20:17/45	20:18		19:24					18:28	17:46-17:56/10		16:38	16:01-16:07/6		16:16		
8	05:18	06:01-06:19/18	05:50		06:26	18:09-18:53/44				07:03	07:46-08:04/18		06:44	15:16-16:01/45		07:21	15:05-15:47/42	
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	20:45	19:33-20:17/44	20:15		19:20					18:24			16:36	16:02-16:07/5		16:16		
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Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 59

Licensed user:

EDR

217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 4 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (90)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759	

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	08:04-08:30/26	07:17	08:04-08:15/11	06:36	15:53-17:20/87	06:39	07:00-07:04/4	05:48	06:09-06:26/17	05:14	05:38-05:50/12
	16:26	08:30-08:36/6	17:04		17:44	17:13-17:21/8	19:24	07:16-07:58/42	20:00	06:25-06:48/23	20:35	05:50-06:12/22
2	07:35	08:04-08:31/27	07:16	08:08-08:11/3	06:34	15:53-17:20/87	06:37	06:57-07:07/10	05:46	06:07-06:26/19	05:14	05:37-05:50/13
	16:27	08:31-08:37/6	17:06		17:45	17:12-17:22/10	19:25	07:15-07:57/42	20:01	06:25-06:47/22	20:36	05:50-06:11/21
3	07:35	08:05-08:31/26	07:15		06:33	15:53-17:21/88	06:35	06:56-07:10/14	05:45	06:06-06:27/21	05:13	05:37-05:51/14
	16:28	08:31-08:37/6	17:07		17:46	17:10-17:23/13	19:26	07:16-07:57/41	20:03	06:26-06:47/21	20:36	05:51-06:12/21
4	07:35	08:05-08:32/27	07:14		06:31	15:53-17:21/88	06:34	06:54-07:11/17	05:43	06:05-06:12/7	05:13	05:36-05:51/15
	16:29	08:32-08:38/6	17:08		17:48	17:09-17:24/15	19:28	07:16-07:56/40	20:04	06:12-06:46/34	20:37	05:51-06:11/20
5	07:35	07:59-08:04/5	07:13	16:14-16:29/15	06:29	15:54-17:19/85	06:32	06:52-07:12/20	05:42	06:03-06:16/13	05:12	05:36-05:52/16
	16:30	08:05-08:37/32	17:10		17:49	17:07-17:26/19	19:29	07:17-07:55/38	20:05	06:15-06:44/29	20:38	05:52-06:11/19
6	07:35	07:59-08:07/8	07:11	16:11-16:33/22	06:27	15:55-17:17/82	06:30	06:50-07:12/22	05:40	06:02-06:18/16	05:12	05:36-05:53/17
	16:31	08:07-08:37/30	17:11		17:50	17:03-17:28/25	19:30	07:17-07:53/36	20:06	06:17-06:44/27	20:39	05:53-06:11/18
7	07:35	07:59-08:09/10	07:10	16:08-16:36/28	06:25	15:55-16:46/51	06:28	06:48-07:12/24	05:39	06:01-06:19/18	05:11	05:35-05:53/18
	16:32	08:09-08:38/29	17:13		17:52	16:48-17:22/34	19:31	07:17-07:52/35	20:08	06:18-06:42/24	20:40	05:53-06:11/18
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	16:54		17:38	16:52-17:15/23	19:15	18:22-18:45/23	19:54	18:56-19:02/6	20:28	06:13-06:18/5	20:47	05:59-06:12/13
26	07:24	07:57-08:20/23	06:41	15:52-17:16/84	06:50	07:18-07:59/41	05:55	06:16-06:37/21	05:18	05:45-06:12/27	05:12	05:36-05:59/23
	16:56		17:39	17:14-17:16/2	19:16	18:22-18:44/22	19:55	06:37-06:49/12	20:29	06:12-06:17/5	20:47	05:59-06:12/13
27	07:23	07:57-08:20/23	06:40	15:52-17:17/85	06:48	07:19-08:00/41	05:54	06:15-06:38/23	05:18	05:46-06:13/27	05:12	05:37-06:00/23
	16:57		17:41	17:13-17:17/4	19:17	18:22-18:43/21	19:56	06:38-06:50/12	20:30	06:13-06:17/4	20:47	06:00-06:13/13
28	07:22	07:58-08:20/22	06:38	15:52-17:18/86	06:47	07:18-07:59/41	05:52	06:13-06:18/5	05:17	05:46-06:13/27	05:13	05:37-05:59/22
	16:58		17:42	17:13-17:19/6	19:19	18:24-18:42/18	19:58	06:18-06:49/31	20:31	06:13-06:16/3	20:47	05:59-06:13/14
29	07:21	07:59-08:19/20			06:45	07:17-07:59/42	05:51	06:12-06:23/11	05:16	05:39-05:43/4	05:13	05:38-06:00/22
	17:00				19:20	18:26-18:40/14	19:59	06:22-06:49/27	20:32	05:46-06:15/29	20:47	06:00-06:14/14
30	07:20	08:01-08:18/17			06:43	07:17-07:59/42	05:49	06:10-06:24/14	05:15	05:39-05:46/7	05:13	05:38-05:59/21
	17:01				19:21	18:28-18:36/8	20:00	06:23-06:48/25	20:33	05:47-06:14/27	20:47	05:59-06:14/15
31	07:19	08:02-08:17/15			06:41	07:16-07:58/42			05:15	05:38-05:48/10		
	17:03				19:22				20:34	05:48-06:12/24		
Potential sun hours	286		291		369		404		459		466	
Sum of minutes with flicker	1004		1471		2272		1793		1703		1081	

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 60

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 4 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (90)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 05:39-06:00/21 20:47 06:00-06:15/15	05:42 06:05-06:15/10 19:23-19:53/30 20:25 06:14-06:35/21	06:18 06:46-07:10/24 18:41-19:07/26 19:35 07:21-07:44/23 19:06-19:12/6	06:54 07:15-07:37/22 17:36-18:08/32 18:39 16:41-17:17/36	06:34 15:32-16:20/48 16:46	07:14 07:39-07:55/16 16:17 07:55-08:19/24
2	05:15 05:39-06:00/21 20:47 06:00-06:15/15	05:43 06:06-06:30/24 19:23-19:53/30 20:24 06:30-06:35/5	06:19 06:45-07:09/24 18:40-19:07/27 19:33 07:19-07:45/26 19:06-19:10/4	06:55 07:16-07:38/20 17:33-18:07/34 18:37 16:38-17:18/40	06:36 15:34-16:10/36 16:45	07:15 07:41-07:56/15 16:17 07:56-08:21/25
3	05:15 05:40-06:00/20 20:47 06:00-06:16/16	05:44 06:08-06:30/22 06:42-06:45/3 20:23 06:30-06:37/7 19:22-19:53/31	06:20 06:45-07:09/24 18:40-19:06/26 19:32 07:17-07:46/29 19:05-19:08/3	06:56 07:18-07:35/17 17:32-18:08/36 18:35 16:37-17:20/43	06:37 15:36-16:07/31 16:44	07:16 07:42-07:55/13 16:17 07:55-08:21/26
4	05:16 05:40-05:59/19 20:47 05:59-06:16/17	05:45 06:09-06:31/22 19:23-19:54/31 20:22 06:30-06:49/19	06:22 06:45-07:10/25 18:40-19:05/25 19:30 07:16-07:48/32 19:04-19:06/2	06:58 07:19-07:33/14 17:30-18:07/37 18:33 16:35-17:21/46	06:38 15:39-16:06/27 16:42	07:17 07:43-07:55/12 16:16 07:55-08:22/27
5	05:16 05:41-06:00/19 20:46 06:00-06:17/17	05:46 06:10-06:30/20 19:23-19:53/30 20:20 06:29-06:51/22	06:23 06:45-07:09/24 18:41-19:05/24 19:28 07:14-07:49/35	06:59 07:20-07:31/11 17:27-18:07/40 18:31 16:33-17:21/48	06:40 15:41-16:02/21 16:41	07:18 07:44-07:54/10 16:16 07:54-08:23/29
6	05:17 05:42-06:00/18 20:46 06:00-06:17/17	05:47 06:11-06:28/17 19:23-19:53/30 20:19 06:27-06:52/25	06:24 06:46-07:08/22 18:41-19:03/22 19:26 07:13-07:49/36	07:00 07:22-07:29/7 17:24-18:05/41 18:30 16:31-17:22/51	06:41 15:46-15:59/13 16:40	07:19 07:45-08:23/28 16:16 07:53-08:23/30
7	05:18 05:42-05:59/17 20:46 05:59-06:17/18	05:48 06:12-06:27/15 19:23-19:52/29 20:18 06:26-06:53/27	06:25 06:47-07:07/20 18:42-19:01/19 19:24 07:12-07:50/38	07:01 06:31-17:59/88 18:28 17:51-18:04/13	06:42 16:38	07:20 07:46-07:51/5 16:16 07:52-08:24/32
8	05:19 05:43-05:59/16 20:45 05:59-06:18/19	05:50 06:13-06:25/12 19:24-19:50/26 20:16 06:24-06:54/30	06:26 06:48-07:05/17 18:43-18:58/15 19:22 07:11-07:50/39	07:03 16:29-17:54/85 18:26 17:41-18:02/21	06:44 16:37	07:21 07:52-08:19/27 16:16 08:19-08:25/6
9	05:19 05:44-05:59/15 20:45 05:59-06:19/20	05:51 06:14-06:19/5 19:24-19:49/25 20:15 06:19-06:55/36	06:28 06:49-07:03/14 18:45-18:55/10 19:21 07:10-07:50/40	07:04 16:28-17:55/87 18:24 17:43-18:00/17	06:45 07:38-07:43/5 16:36	07:22 07:53-08:19/26 16:16 08:19-08:25/6
10	05:20 05:45-05:59/14 20:45 05:59-06:19/20	05:52 06:15-06:36/21 19:25-19:47/22 20:13 06:35-06:55/20	06:29 06:50-07:01/11 19:19 07:09-07:50/41	07:05 16:28-17:56/88 18:22 17:45-17:59/14	06:47 07:35-07:47/12 16:35	07:23 07:53-08:20/27 16:16 08:20-08:26/6
11	05:21 05:45-05:57/12 20:44 05:57-06:19/22	05:53 06:16-06:34/18 19:25-19:46/21 20:12 06:33-06:56/23	06:30 06:52-06:58/6 19:17 07:09-07:51/42	07:06 16:27-17:54/87 18:21 17:45-17:57/12	06:48 07:33-07:48/15 16:33	07:24 07:54-08:20/26 16:16 08:20-08:27/7
12	05:22 05:46-05:57/11 20:44 05:57-06:20/23	05:54 06:18-06:34/16 19:26-19:44/18 20:10 06:33-06:57/24	06:31 07:08-07:50/42 19:15	07:08 16:26-17:53/87 18:19 17:45-17:54/9	06:49 07:32-07:49/17 16:32	07:25 07:54-08:21/27 16:16 08:21-08:27/6
13	05:22 05:47-05:56/9 20:43 05:56-06:22/26	05:56 06:19-06:32/13 19:28-19:44/16 20:09 06:31-06:57/26	06:32 07:08-07:50/42 19:13 18:20-18:27/7	07:09 16:26-17:53/87 18:17 17:46-17:53/7	06:51 07:31-07:51/20 16:31	07:26 07:55-08:21/26 16:16 08:21-08:28/7
14	05:23 05:48-05:53/5 20:42 05:55-06:23/28	05:57 06:20-06:30/10 19:12-19:13/1 20:07 06:29-06:57/28 19:30-19:42/12	06:34 07:07-07:49/42 19:11 18:16-18:30/14	07:10 16:25-17:51/86 18:15 17:46-17:51/5	06:52 07:30-07:52/22 16:30	07:27 07:56-08:22/26 16:16 08:22-08:29/7
15	05:24 05:55-06:22/27 20:42 06:22-06:25/3	05:58 06:21-06:46/25 19:07-19:17/10 20:06 06:46-06:57/11 19:33-19:40/7	06:35 07:07-07:49/42 19:09 18:14-18:31/17	07:12 16:24-17:49/85 18:13 17:46-17:49/3	06:53 07:30-07:53/23 16:29	07:27 07:55-08:21/26 16:16 08:21-08:33/12
16	05:25 05:54-06:22/28 20:41 06:22-06:25/3	05:59 06:22-06:45/23 19:04-19:19/15 20:04 06:45-06:56/11	06:36 07:07-07:48/41 19:07 18:12-18:32/20	07:13 16:25-17:26/61 18:12 17:22-17:48/26	06:55 07:30-07:53/23 16:28	07:28 07:56-08:22/26 16:16 08:22-08:34/12
17	05:26 05:55-06:22/27 19:36-19:39/3 20:40 06:22-06:26/4	06:00 06:23-06:44/21 19:03-19:20/17 20:03 06:44-06:56/12	06:37 07:07-07:47/40 19:05 18:10-18:32/22	07:14 16:24-17:30/66 18:10 17:25-17:46/21	06:56 07:30-07:54/24 16:27	07:29 07:57-08:23/26 16:17 08:23-08:36/13
18	05:27 05:55-06:22/27 19:33-19:43/10 20:40 06:22-06:27/5	06:01 06:24-06:55/31 19:09-19:21/12 20:01 19:01-19:09/8	06:38 07:08-07:47/39 19:03 18:10-18:33/23	07:15 16:23-17:32/69 18:08 17:26-17:44/18	06:57 07:30-54/24 16:26	07:30 07:57-08:22/25 16:17 08:22-08:36/14
19	05:28 05:55-06:22/27 19:31-19:45/14 20:39 06:22-06:27/5	06:03 06:25-06:55/30 19:12-19:21/9 20:00 18:58-19:12/14	06:39 07:08-07:46/38 19:02 18:09-18:33/24	07:17 16:24-17:32/68 18:07 17:28-17:43/15	06:59 07:30-07:55/25 16:25	07:30 07:58-08:23/25 16:17 08:23-08:37/14
20	05:29 05:55-06:22/27 19:30-19:46/16 20:38 06:22-06:28/6	06:04 06:27-06:55/28 19:13-19:22/9 19:56 18:55-19:13/18	06:41 07:08-07:44/36 19:00 18:08-18:33/25	07:18 16:24-17:31/67 18:05 17:28-17:41/13	07:00 07:30-07:55/25 16:24	07:31 07:59-08:24/25 16:18 08:24-08:38/14
21	05:30 05:55-06:22/27 19:29-19:47/18 20:37 06:22-06:29/7	06:05 06:28-06:54/26 19:15-19:23/8 19:55 18:55-19:15/20	06:42 07:09-07:43/34 18:58 18:08-18:32/24	07:19 16:23-17:31/68 18:03 17:28-17:38/10	07:01 07:30-07:56/26 16:24	07:31 07:59-08:24/25 16:18 08:24-08:38/14
22	05:31 05:56-06:22/26 19:28-19:48/20 20:36 06:22-06:29/7	06:06 06:29-06:52/23 19:16-19:23/7 19:53 18:53-19:16/23	06:43 07:09-07:34/25 18:08-18:31/23 18:56 07:34-07:41/7	07:21 16:24-17:30/66 18:02 17:29-17:37/8	07:03 07:31-07:57/26 16:23	07:32 08:00-08:25/25 16:19 08:25-08:39/14
23	05:32 05:56-06:22/26 19:27-19:49/22 20:35 06:22-06:30/8	06:07 06:30-06:51/21 19:17-19:22/5 19:51 18:52-19:17/25	06:44 07:10-07:37/27 18:07-18:30/23 18:54 07:37-07:40/3	07:22 16:24-17:29/65 18:00 17:29-17:33/4	07:04 07:31-07:56/25 16:22	07:32 08:00-08:25/25 16:19 08:25-08:39/14
24	05:33 05:57-06:22/25 19:27-19:50/23 20:34 06:22-06:30/8	06:09 06:31-06:49/18 19:17-19:22/5 19:49 18:51-19:17/26	06:45 07:10-07:37/27 18:52 18:09-18:29/20	07:23 16:25-17:29/64 17:58 17:29-17:30/1	07:05 07:31-07:56/25 16:21	07:33 08:00-08:25/25 16:20 08:25-08:39/14
25	05:34 05:58-06:23/25 19:26-19:51/25 20:33 06:22-06:30/8	06:10 06:32-06:51/14 19:01-19:21/20 19:48 18:49-19:03/14	06:47 07:09-07:38/29 18:09-18:27/18 18:50 17:53-18:00/7	07:25 16:25-17:28/63 17:57	07:07 07:32-07:57/25 16:21	07:33 08:01-08:28/25 16:20 08:26-08:40/14
26	05:35 05:59-06:22/23 19:25-19:51/26 20:32 06:21-06:31/10	06:11 06:35-06:43/8 18:48-19:05/17 19:46 06:56-07:03/7 19:03-19:20/17	06:48 07:09-07:38/29 18:10-18:25/15 18:48 17:48-18:03/15	07:26 16:26-17:27/61 17:55	07:08 07:33-07:57/24 16:20	07:34 08:01-08:27/26 16:21 08:27-08:40/13
27	05:36 06:00-06:22/22 19:25-19:52/27 20:31 06:21-06:32/11	06:12 06:53-07:06/13 19:04-19:19/15 19:44 18:46-19:06/20	06:49 07:10-07:38/28 17:46-18:04/18 18:46 16:57-17:05/8 18:11-18:23/12	07:27 16:27-17:27/60 17:54	07:09 07:34-07:56/22 16:19	07:34 08:01-08:27/26 16:22 08:27-08:40/13
28	05:37 06:01-06:21/20 19:24-19:52/28 20:30 06:20-06:33/13	06:13 06:51-07:08/17 19:06-19:19/13 19:42 18:45-19:08/23	06:50 07:12-07:39/27 17:43-18:05/22 18:44 16:51-17:11/20 18:14-18:20/6	07:29 16:27-17:26/59 17:52	07:10 07:36-07:57/21 16:19	07:34 08:01-08:27/26 16:22 08:27-08:39/12
29	05:38 06:02-06:20/18 19:24-19:53/29 20:29 06:19-06:34/15	06:15 06:49-07:09/20 19:06-19:17/11 19:41 18:44-19:08/24	06:52 07:13-07:38/25 17:40-18:07/27 18:43 16:47-17:14/27	07:30 16:29-17:26/57 17:51	07:11 07:37-07:56/19 16:18	07:34 08:03-08:29/26 08:37-08:39/2 16:23 08:29-08:35/6
30	05:39 06:03-06:19/16 19:23-19:53/30 20:28 06:18-06:34/16	06:16 06:48-07:09/21 18:43-19:08/25 19:39 07:29-07:38/9 19:06-19:15/9	06:53 07:14-07:38/24 17:38-18:08/30 18:41 16:44-17:16/32	07:31 16:29-17:24/55 17:49	07:13 07:38-07:56/18 16:18	07:35 08:03-08:29/26 16:24 08:29-08:36/7
31	05:40 06:04-06:17/13 19:23-19:53/30 20:27 06:16-06:35/19	06:17 06:47-07:10/23 18:42-19:08/26 19:37 07:24-07:42/18 19:06-19:13/7	06:54 07:15-07:37/22 17:36-18:08/32 18:39 16:41-17:17/36	07:33 16:31-17:23/52 17:48	07:14 07:39-07:56/19 16:19	07:35 08:03-08:29/26 16:25 08:29-08:36/7
Potential sun hours	1472	1436	1376	1341	1288	1274
Sum of minutes with flicker	1356	1779	1943	2471	795	1145

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 61

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 5 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (92)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January				February				March				April				May				June								
1	07:35	08:26-09:14/48	13:04-13:38/34	14:58-15:42/44	07:18	08:34-09:26/52	15:54-16:34/40	06:36	07:32-07:38/6	17:14-17:21/7	06:39	18:17-18:47/30	05:48	06:09-06:36/27	05:14	19:41-20:09/28													
	16:26	09:36-10:11/35	14:06-14:59/53			17:04	14:59-15:49/50	16:34-16:38/4	17:44	16:40-17:14/34	19:24		20:00	18:58-19:37/39	20:35														
2	07:35	08:26-09:14/48	13:05-13:37/32	14:58-15:42/44	07:16	08:34-09:25/51	15:53-16:34/41	06:34	16:40-17:13/33		06:37	18:18-18:46/28	05:46	06:07-06:36/29	05:14	19:40-20:09/29													
	16:27	09:37-10:11/34	14:07-14:59/52			17:06	15:00-15:47/47	16:34-16:38/4	17:45	17:13-17:22/9	19:25		20:01	18:58-19:38/40	20:36														
3	07:35	08:26-09:15/49	13:06-13:37/31	14:58-15:43/45	07:15	08:35-09:24/49	15:53-16:33/40	06:33	16:41-17:12/31		06:35	18:20-18:45/25	05:45	06:06-06:36/30	05:13	19:41-20:10/29													
	16:28	09:38-10:10/32	14:07-14:59/52			17:07	15:01-15:47/46	16:33-16:39/6	17:46	17:12-17:23/11	19:26		20:03	18:59-19:39/40	20:36														
4	07:35	08:27-09:16/49	13:08-13:37/29	14:59-15:44/45	07:14	08:36-09:24/48	15:53-16:32/39	06:31	16:42-17:10/28		06:34	18:21-18:42/21	05:43	06:05-06:36/31	05:13	19:40-20:10/30													
	16:29	09:39-10:10/31	14:08-15:00/52			17:09	15:03-15:46/43	16:32-16:39/7	17:48	17:10-17:24/14	19:28		20:04	19:00-19:41/41	20:37														
5	07:35	08:26-09:16/50	13:09-13:35/26	14:58-15:43/45	07:13	08:37-09:24/47	15:52-16:30/38	06:29	16:44-17:09/25		06:32	18:24-18:39/15	05:42	06:03-06:35/32	05:12	19:41-20:11/30													
	16:30	09:39-10:09/30	14:08-14:59/51			17:10	15:04-15:44/40	16:30-16:39/9	17:49	17:09-17:26/17	19:29		20:05	19:00-19:41/41	20:38														
6	07:35	08:26-09:17/51	13:11-13:34/23	14:58-15:44/46	07:11	08:37-09:22/45	15:52-16:26/34	06:27	16:45-17:07/22		06:30	18:28-18:34/6	05:41	06:02-06:34/32	05:12	19:41-20:12/31													
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25	07:25	08:30-09:26/56	15:57-16:27/30		06:43	07:25-07:47/22		06:52	18:06-18:39/33		06:57	06:18																	

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 62

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 5 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (92)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 19:46-20:20/34 20:47	05:42 06:12-06:37/25 20:26 19:32-19:44/12	06:18 06:40-06:59/19 19:35	06:54 17:32-18:15/43 18:39	06:34 08:11-08:46/35 15:22-16:09/47 16:46 14:45-15:05/20	07:14 08:10-09:03/53 13:56-14:40/44 16:18 09:34-09:45/11 14:39-15:28/49
2	05:15 19:46-20:19/33 20:47	05:43 06:12-06:40/28 19:31-19:46/15 20:24 19:22-19:25/3	06:19 06:41-06:57/16 19:34	06:55 17:30-18:13/43 18:37	06:36 08:10-08:49/39 15:22-16:10/48 16:45 14:42-15:08/26	07:15 08:10-09:03/53 13:57-14:42/45 16:17 09:32-09:48/16 14:41-15:29/48
3	05:15 19:47-20:20/33 20:47	05:44 06:12-06:41/29 20:23 19:18-19:48/30	06:21 06:43-06:57/14 19:32	06:57 17:30-18:12/42 18:35	06:37 08:09-08:50/41 15:22-16:09/47 16:44 14:39-15:10/31	07:16 08:11-09:03/52 13:56-14:43/47 16:17 09:30-09:50/20 14:42-15:30/48
4	05:16 19:46-20:19/33 20:47	05:45 06:11-06:42/31 20:22 19:15-19:49/34	06:22 06:44-06:54/10 19:30	06:58 17:28-18:10/42 18:33	06:38 08:08-08:51/43 15:23-16:10/47 16:42 14:37-15:12/35	07:17 08:11-09:03/52 13:02-13:15/13 14:43-15:30/47 16:17 09:29-09:52/23 13:56-14:44/48
5	05:16 19:47-20:19/32 20:47	05:46 06:11-06:43/32 20:20 19:13-19:50/37	06:23 06:45-06:51/6 19:28	06:59 17:27-18:08/41 18:32	06:40 08:07-08:52/45 15:22-15:57/35 16:41 14:35-15:13/38 15:57-16:09/12	07:18 08:12-09:03/51 12:59-13:18/19 14:43-15:30/47 16:16 09:29-09:53/25 13:56-14:44/48
6	05:17 19:47-20:19/32 20:46	05:47 06:11-06:44/33 20:19 19:12-19:51/39	06:24 18:24-18:30/6 19:26	07:00 17:26-17:39/13 18:30 19:39-18:06/27	06:41 08:07-08:54/47 15:23-16:01/38 16:40 14:34-15:15/41 16:01-16:10/9	07:19 08:12-09:03/51 12:58-13:20/22 14:44-15:30/46 16:16 09:27-09:55/28 13:55-14:45/50
7	05:18 19:47-20:18/31 20:46	05:49 06:12-06:44/32 20:18 19:10-19:51/41	06:25 18:19-18:34/15 19:24	07:01 17:22-17:42/20 18:28 17:42-18:04/22	06:43 08:05-08:54/49 15:23-16:02/39 16:38 14:33-15:16/43 16:02-16:09/7	07:20 08:13-09:03/50 12:56-13:22/26 14:45-15:30/45 16:16 09:27-09:56/29 13:55-14:46/51
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21	05:30 19:53-20:10/17 20:37	06:05 06:28-06:34/6 19:04-19:31/27 19:55 06:44-06:58/14	06:42 17:50-18:28/38 18:58 18:28-18:34/6	07:19 07:54-08:21/27 17:11-17:39/28 18:03 16:32-17:03/31	07:01 08:04-09:00/56 14:26-15:25/59 16:24 14:10-14:20/10 15:36-15:57/21	07:32 08:22-09:07/45 12:55-13:35/40 14:53-15:35/42 16:18 09:28-10:08/40 13:59-14:54/55
22	05:31 19:53-20:09/16 20:36	06:06 06:42-07:00/18 19:53 19:04-19:29/25	06:43 17:49-18:28/39 18:56 18:28-18:32/4	07:21 07:53-08:20/27 17:11-17:37/26 18:02 16:30-17:04/34	07:03 08:05-09:01/56 14:27-15:26/59 16:23 14:07-14:25/18 15:39-15:57/18	07:32 08:23-09:08/45 12:56-13:36/40 14:54-15:36/42 16:19 09:29-10:09/40 14:00-14:55/55
23	05:32 19:54-20:08/14 20:35	06:07 06:41-07:00/19 19:51 19:04-19:28/24	06:44 17:49-18:29/40 18:54 18:29-18:31/2	07:22 07:53-08:20/27 17:12-17:35/23 18:00 16:28-17:05/37	07:04 08:05-09:01/56 15:41-15:55/14 16:22 14:04-15:26/62	07:33 08:23-09:08/45 12:56-13:36/40 14:54-15:37/43 16:19 09:29-10:09/40 14:00-14:55/55
24	05:33 19:55-20:07/12 20:34	06:09 06:40-07:01/21 19:50 19:05-19:26/21	06:46 17:48-18:28/40 18:52 18:28-18:29/1	07:23 07:54-08:20/26 17:13-17:34/21 17:59 16:28-17:06/38	07:05 08:06-09:02/56 15:44-15:54/10 16:21 14:03-15:27/64	07:33 08:23-09:08/45 12:56-13:36/40 14:54-15:37/43 16:20 09:29-10:09/40 14:00-14:55/55
25	05:34 06:21-06:26/5 20:33 19:56-20:06/10	06:10 06:38-07:01/23 19:48 19:05-19:24/19	06:47 17:47-18:27/40 18:50	07:25 07:53-08:19/26 17:13-17:32/19 17:57 16:26-17:07/41	07:07 08:06-09:02/56 15:47-15:54/7 16:21 14:01-15:27/66	07:33 08:24-09:09/45 12:57-13:37/40 14:55-15:38/43 16:20 09:31-10:10/39 14:02-14:56/54
26	05:35 06:18-06:28/10 20:32 19:58-20:05/7	06:11 06:38-07:01/23 19:46 19:06-19:22/16	06:48 17:46-18:25/39 18:48	07:26 07:55-08:19/24 17:15-17:31/16 17:55 16:28-17:08/42	07:08 08:06-09:01/55 15:48-15:53/5 16:20 14:00-15:27/67	07:34 08:24-09:09/45 12:57-13:37/40 14:56-15:38/42 16:21 09:31-10:10/39 14:02-14:57/55
27	05:36 06:16-06:30/14 20:31 20:00-20:04/4	06:12 06:38-07:02/24 19:44 19:08-19:21/13	06:49 17:46-18:23/37 18:46	07:28 07:55-08:17/22 17:16-17:29/13 17:54 16:24-17:08/44	07:09 08:08-09:02/54 15:49-15:52/3 16:20 13:59-15:27/68	07:34 08:24-09:10/46 12:58-13:37/39 14:56-15:38/42 16:22 09:31-10:10/39 14:02-14:57/55
28	05:37 06:15-06:31/16 20:30	06:13 06:37-07:02/25 19:43 19:10-19:20/10	06:50 17:41-18:22/41 18:45	07:29 07:57-08:17/20 16:23-17:08/45 17:52 09:22-09:36/14 17:18-17:27/9	07:10 08:08-09:02/54 15:51-15:52/1 16:19 13:58-15:28/90	07:34 08:25-09:11/46 12:59-13:37/38 14:56-15:39/43 16:22 09:33-10:11/38 14:03-14:57/54
29	05:38 06:14-06:32/18 20:29	06:15 06:37-07:01/24 19:41 19:13-19:18/5	06:52 17:37-18:19/42 18:43	07:30 07:58-08:15/17 16:23-17:09/46 17:51 09:18-09:40/22 17:22-17:28/4	07:12 08:08-09:01/55 15:48-15:53/5 16:18 13:58-14:39/41	07:35 08:25-09:12/47 13:01-13:38/37 14:57-15:40/43 16:24 09:34-10:11/37 14:04-14:58/54
30	05:39 06:13-06:33/20 20:28	06:16 06:38-07:01/23 19:39	06:53 17:35-18:17/42 18:41	07:31 07:59-08:12/13 17:23-17:09/46 17:49 09:15-09:40/22	07:13 08:09-09:02/53 14:39-15:28/49 16:18 13:57-14:40/43	07:35 08:26-09:13/47 13:02-13:38/36 14:57-15:41/44 16:25 09:35-10:11/36 14:05-14:58/53
31	05:41 06:12-06:34/22 20:27 19:36-19:41/5	06:17 06:39-07:00/21 19:37		07:33 08:03-08:09/6 15:50-16:00/10 17:48 09:13-09:45/32 16:23-17:10/47		
Potential sun hours	1472	1436	1376	1341	1288	1274
Sum of minutes with flicker	750	1602	962	1976	4210	6468

Project:

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Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 6 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (91)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	07:35	08:03-08:34/31		07:17	08:24-08:34/10	06:36	17:08-17:21/13	06:39	18:23-19:01/38	05:48	18:59-19:36/37	05:14	19:33-20:07/34					
	16:26	15:07-15:58/51		17:04	15:56-16:38/42	17:44		19:24		20:00		20:35						
2	07:35	08:04-08:35/31		07:16	15:59-16:40/41	06:34	17:06-17:22/16	06:37	18:22-19:02/40	05:46	18:59-19:35/36	05:14	19:33-20:06/33					
	16:27	15:08-15:59/51		17:06		17:45		19:25		20:01		20:36						
3	07:35	08:04-08:35/31		07:15	16:00-16:41/41	06:33	17:05-17:23/18	06:35	18:22-19:04/42	05:45	19:00-19:34/34	05:13	19:34-20:07/33					
	16:28	15:09-16:00/51		17:07		17:46		19:26		20:03		20:36						
4	07:35	08:04-08:36/32		07:14	16:01-16:43/42	06:31	17:05-17:24/19	06:34	18:22-19:05/43	05:43	19:00-19:34/34	05:13	19:34-20:06/32					
	16:29	15:10-16:01/51		17:09		17:48		19:28		20:04		20:37						
5	07:35	08:04-08:36/32		07:13	16:01-16:44/43	06:29	17:05-17:26/21	06:32	18:21-19:06/45	05:42	19:00-19:33/33	05:12	19:35-20:06/31					
	16:30	15:10-16:01/51		17:10		17:49		19:29		20:05		20:38						
6	07:35	08:04-08:37/33		07:11	16:02-16:46/44	06:27	17:05-17:28/23	06:30	18:21-19:05/44	05:41	19:01-19:33/32	05:12	19:35-20:06/31					
	16:31	15:11-16:02/51		17:11		17:50		19:30		20:06	19:42-19:43/1	20:39						
7	07:35	08:05-08:38/33		07:10	16:03-16:48/45	06:26	17:04-17:29/25	06:28	18:21-19:04/43	05:39	19:02-19:32/30	05:12	19:35-20:06/31					
	16:32	15:12-16:04/52		17:13		17:52		19:31		20:08	19:40-19:44/4	20:40						
8	07:35	08:05-08:39/34		07:09	16:02-16:49/47	07:24	18:04-18:30/26	06:26	18:21-19:04/43	05:38	19:02-19:30/28	05:11	19:36-20:06/30					
	16:33	15:14-16:05/51		17:14		18:53		19:33		20:09	19:37-19:44/7	20:40						
9	07:34	08:05-08:39/34		07:07	16:03-16:51/48	07:22	18:05-18:29/24	06:25	18:22-19:04/42	05:36	19:03-19:30/27	05:11	19:37-20:06/29					
	16:34	15:15-16:06/51		17:16		18:54		19:34		20:10	19:36-19:46/10	20:41						
10	07:34	08:05-08:40/35		07:06	16:03-16:53/50	07:20	18:05-18:28/23	06:23	18:22-19:03/41	05:35	19:05-19:29/24	05:11	19:37-20:06/29					
	16:35	15:16-16:07/51		17:17		18:56		19:35		20:11	19:35-19:47/12	20:42						
11	07:34	08:05-08:40/35		07:05	16:03-16:54/51	07:18	18:07-18:27/20	06:21	18:23-19:01/38	05:34	19:06-19:27/21	05:10	19:38-20:06/28					
	16:36	15:18-16:08/50		17:19		18:57		19:36		20:12	19:34-19:48/14	20:42						
12	07:33	08:06-08:40/34		07:03	16:04-16:55/51	07:16	18:08-18:25/17	06:19	18:23-19:00/37	05:33	19:08-19:26/18	05:10	19:38-20:05/27					
	16:38	15:20-16:10/50		17:20		18:58		19:38		20:14	19:34-19:50/16	20:43						
13	07:33	08:06-08:40/34		07:02	16:04-16:55/51	07:15	18:10-18:23/13	06:17	18:25-18:59/34	05:31	19:09-19:23/14	05:10	19:38-20:05/27					
	16:39	15:21-16:10/49		17:21		19:00		19:39		20:15	19:32-19:50/18	20:43						
14	07:32	08:06-08:41/35		07:00	16:05-16:55/50	07:13	18:14-18:18/4	06:16	18:26-18:57/31	05:30	19:13-19:20/7	05:10	19:39-20:05/26					
	16:40	15:23-16:12/49		17:23		19:01		19:40		20:16	19:32-19:51/19	20:44						
15	07:32	08:06-08:41/35		06:59	16:05-16:54/49	07:11		06:14	18:27-18:55/28	05:29	19:31-19:52/21	05:10	19:39-20:05/26					
	16:41	15:23-16:13/50		17:24		19:02		19:41		20:17		20:44						
16	07:31	08:07-08:42/35		06:57	16:07-16:55/48	07:09		06:12	18:29-18:53/24	05:28	19:31-19:53/22	05:10	19:39-20:05/26					
	16:42	15:25-16:15/50		17:26		19:03		19:43	19:13-19:19/6	20:18		20:45						
17	07:31	08:07-08:42/35		06:56	16:08-16:54/46	07:07		06:10	18:32-18:50/18	05:27	19:31-19:54/23	05:10	19:40-20:05/25					
	16:44	15:25-16:16/51		17:27		19:05		19:44	19:11-19:21/10	20:19		20:45						
18	07:30	08:08-08:42/34		06:54	16:09-16:53/44	07:05		06:09	19:08-19:21/13	05:26	19:30-19:55/25	05:10	19:40-20:05/25					
	16:45	15:26-16:17/51		17:28		19:06		19:45		20:21		20:46						
19	07:29	08:09-08:43/34		06:53	16:11-16:53/42	07:03		06:07	19:06-19:22/16	05:25	19:30-19:56/26	05:10	19:41-20:06/25					
	16:46	15:27-16:18/51		17:30		19:07		19:46		20:22		20:46						
20	07:29	08:09-08:43/34		06:51	16:12-16:51/39	07:02		06:05	19:05-19:24/19	05:24	19:30-19:57/27	05:10	19:41-20:06/25					
	16:48	15:29-16:21/52		17:31		19:09		19:48		20:23		20:46						
21	07:28	08:09-08:43/34		06:50	16:15-16:50/35	07:00		06:04	19:04-19:25/21	05:23	19:30-19:58/28	05:10	19:41-20:06/25					
	16:49	15:30-16:22/52		17:33		19:10		19:49		20:24		20:47						
22	07:27	08:10-08:43/33	16:22-16:23/1	06:48	16:25-16:49/24	06:58	18:44-18:48/4	06:02	19:02-19:26/24	05:22	19:31-20:00/29	05:11	19:41-20:06/25					
	16:50	15:31-16:22/51		17:34		19:11		19:50		20:25		20:47						
23	07:26	08:10-08:43/33		06:46	16:27-16:47/20	06:56	18:37-18:50/13	06:00	19:02-19:27/25	05:21	19:31-20:01/30	05:11	19:41-20:06/25					
	16:52	15:33-16:25/52		17:35		19:12		19:51		20:26		20:47						
24	07:26	08:11-08:42/31		06:45	16:29-16:44/15	06:54	18:34-18:51/17	05:59	19:01-19:28/27	05:20	19:31-20:02/31	05:11	19:42-20:07/25					
	16:53	15:35-16:26/51		17:37		19:14		19:53		20:27		20:47						
25	07:25	08:12-08:42/30		06:43	16:34-16:40/6	06:52	18:31-18:52/21	05:57	19:01-19:30/29	05:19	19:31-20:02/31	05:11	19:42-20:07/25					
	16:54	15:38-16:27/49		17:38		19:15		19:54		20:28		20:47						
26	07:24	08:13-08:42/29		06:41	17:13-17:16/3	06:50	18:29-18:53/24	05:55	19:00-19:31/31	05:18	19:31-20:03/32	05:12	19:41-20:07/26					
	16:56	15:48-16:29/41		17:40		19:16		19:55		20:29		20:47						
27	07:23	08:14-08:41/27		06:40	17:10-17:17/7	06:49	18:28-18:55/27	05:54	19:00-19:32/32	05:18	19:31-20:04/33	05:12	19:42-20:08/26					
	16:57	15:49-16:31/42		17:41		19:18		19:56		20:30		20:47						
28	07:22	08:15-08:40/25		06:38	17:09-17:20/11	06:47	18:27-18:56/29	05:52	18:59-19:33/34	05:17	19:31-20:05/34	05:13	19:42-20:08/26					
	16:59	15:50-16:32/42		17:42		19:19		19:58		20:31		20:47						
29	07:21	08:17-08:39/22				06:45	18:26-18:57/31	05:51	19:00-19:35/35	05:16	19:31-20:06/35	05:13	19:42-20:09/27					
	17:00	15:51-16:34/43				19:20		19:59		20:32		20:47						
30	07:20	08:18-08:38/20				06:43	18:24-18:59/35	05:49	18:59-19:35/36	05:16	19:32-20:07/35	05:14	19:42-20:09/27					
	17:01	15:53-16:35/42				19:21		20:00		20:33		20:47						
31	07:19	08:21-08:37/16				06:41	18:23-19:00/37			05:15	19:32-20:07/35							
	17:03	15:55-16:37/42				19:23				20:34								
Potential sun hours	286			291			369			404			459			466		
Sum of minutes with flicker	2493			1045			500			989			973			830		

Project:

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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 6 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (91)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 19:42-20:10/28 20:47	05:42 19:17-19:36/19 20:26 19:43-19:59/16	06:18 18:21-19:00/39 19:35	06:54 17:47-18:03/16 18:39	06:34 15:32-16:21/49 16:46	07:14 07:47-08:22/35 16:18 15:00-15:50/50
2	05:15 19:42-20:10/28 20:47	05:43 19:15-19:38/23 20:24 19:44-19:57/13	06:19 18:20-19:01/41 19:34	06:55 17:45-18:04/19 18:37	06:36 15:32-16:20/48 16:45	07:15 07:48-08:23/35 16:17 15:00-15:50/50
3	05:15 19:42-20:11/29 20:47	05:44 19:15-19:40/25 20:23 19:46-19:57/11	06:21 18:19-19:01/42 19:32	06:57 17:44-18:06/22 18:35	06:37 15:32-16:18/46 16:44	07:16 07:49-08:23/34 16:17 14:59-15:50/51
4	05:16 19:41-20:11/30 20:47	05:45 19:14-19:41/27 20:22 19:47-19:56/9	06:22 18:19-19:02/43 19:30	06:58 17:43-18:06/23 18:33	06:38 15:33-16:17/44 16:42	07:17 07:49-08:23/34 16:17 14:58-15:49/51
5	05:16 19:42-20:12/30 20:46	05:46 19:12-19:41/29 20:20 19:48-19:55/7	06:23 18:18-19:01/43 19:28	06:59 17:41-18:06/25 18:32	06:40 15:32-16:16/44 16:41	07:18 07:50-08:23/33 16:16 14:58-15:49/51
6	05:17 19:42-20:12/30 20:46	05:47 19:11-19:42/31 20:19 19:50-19:53/3	06:24 18:17-19:01/44 19:26	07:00 17:40-18:05/25 18:30	06:41 15:32-16:15/43 16:40	07:19 07:50-08:23/33 16:16 14:57-15:48/51
7	05:18 19:41-20:12/31 20:46	05:49 19:10-19:42/32 20:18	06:25 18:16-19:01/45 19:24	07:01 17:40-18:04/24 18:28	06:43 15:31-16:13/42 16:38	07:20 07:51-08:23/32 16:16 14:57-15:48/51
8	05:19 19:41-20:13/32 20:45	05:50 19:10-19:43/33 20:16	06:26 18:16-18:59/43 19:22	07:03 17:40-18:02/22 18:26	06:44 15:31-16:12/41 16:37	07:21 07:51-08:23/32 16:16 14:57-15:48/51
9	05:19 19:41-20:14/33 20:45	05:51 19:09-19:43/34 20:15	06:28 18:15-18:57/42 19:21	07:04 17:39-18:00/21 18:24	06:45 15:30-16:10/40 16:36	07:22 07:52-08:24/32 16:16 14:57-15:48/51
10	05:20 19:41-20:15/34 20:45	05:52 19:08-19:43/35 20:13	06:29 18:15-18:55/40 19:19	07:05 17:40-17:59/19 18:22	06:47 07:54-08:05/11 16:35 15:27-16:09/42	07:23 07:53-08:24/31 16:16 14:57-15:48/51
11	05:21 19:41-20:14/33 20:44	05:53 19:08-19:43/35 20:12	06:30 18:16-18:54/38 19:17	07:07 17:40-17:57/17 18:21	06:48 07:51-08:08/17 16:33 15:25-16:08/43	07:24 07:53-08:24/31 16:16 14:57-15:48/51
12	05:22 19:41-20:15/34 20:44	05:54 19:08-19:44/36 20:11	06:31 18:16-18:52/36 19:15	07:08 17:40-17:55/15 18:19	06:49 07:49-08:09/20 16:32 15:24-16:06/42	07:25 07:54-08:24/30 16:16 14:58-15:48/50
13	05:23 19:41-20:16/35 20:43	05:56 19:08-19:44/36 20:09	06:32 18:16-18:50/34 19:13	07:09 17:41-17:53/12 18:17	06:51 07:48-08:11/23 16:31 15:23-16:06/43	07:26 07:55-08:25/30 16:16 14:58-15:48/50
14	05:23 19:41-20:15/34 20:42	05:57 19:07-19:42/35 20:07	06:34 18:16-18:48/32 19:11	07:10 17:42-17:51/9 18:15	06:52 07:47-08:12/25 16:30 15:22-16:04/42	07:27 07:56-08:25/29 16:16 14:58-15:48/50
15	05:24 19:41-20:15/34 20:42	05:58 19:07-19:40/33 20:06	06:35 18:16-18:46/30 19:09	07:12 17:43-17:49/6 18:14	06:53 07:47-08:14/27 16:29 15:22-16:03/41	07:28 07:56-08:25/29 16:16 14:58-15:48/50
16	05:25 19:40-20:13/33 20:41	05:59 19:07-19:39/32 20:04	06:36 18:17-18:44/27 19:07	07:13 17:46-17:48/2 18:12	06:55 07:46-08:15/29 16:28 15:21-16:02/41	07:28 07:56-08:25/29 16:16 14:58-15:48/50
17	05:26 19:40-20:13/33 20:40	06:00 19:07-19:37/30 20:03	06:37 18:18-18:43/25 19:05	07:14 17:03-17:14/11 18:10	06:56 07:46-08:16/30 16:27 15:12-16:01/49	07:29 07:57-08:26/29 16:17 14:59-15:49/50
18	05:27 19:40-20:12/32 20:40	06:02 19:06-19:35/29 20:01	06:38 18:19-18:41/22 19:04	07:16 16:59-17:16/17 18:08	06:57 07:45-08:16/31 16:26 15:09-16:00/51	07:30 07:57-08:26/29 16:17 14:59-15:48/49
19	05:28 19:40-20:11/31 20:39	06:03 19:07-19:34/27 20:00	06:40 18:21-18:39/18 19:02	07:17 16:58-17:19/21 18:07	06:59 07:45-08:18/33 16:25 15:08-16:00/52	07:30 07:58-08:27/29 16:17 15:00-15:49/49
20	05:29 19:40-20:11/31 20:38	06:04 19:08-19:33/25 19:56	06:41 18:23-18:36/13 19:00	07:18 16:49-17:20/31 18:05	07:00 07:45-08:18/33 15:57-15:58/1 16:24 15:06-15:57/51	07:31 07:59-08:27/28 16:18 15:00-15:50/50
21	05:30 19:40-20:10/30 20:37	06:05 19:08-19:31/23 19:55	06:42 18:27-18:34/7 18:58	07:19 16:45-17:22/37 18:03	07:01 07:44-08:18/34 16:24 15:05-15:57/52	07:31 07:59-08:27/28 16:18 15:00-15:50/50
22	05:31 19:40-20:09/29 20:36	06:06 19:09-19:29/20 19:53	06:43 18:56 18:56	07:21 16:42-17:22/40 18:02	07:03 07:45-08:19/34 16:23 15:05-15:57/52	07:32 08:00-08:28/28 16:19 15:01-15:51/50
23	05:32 19:41-20:08/27 20:35	06:07 19:09-19:28/19 19:51	06:44 18:54 18:54	07:22 16:40-17:23/43 18:00	07:04 07:45-08:19/34 16:22 15:04-15:56/52	07:32 08:00-08:28/28 16:19 15:01-15:51/50
24	05:33 19:41-20:07/26 20:34	06:09 19:10-19:26/16 19:50	06:46 18:52 18:52	07:23 16:39-17:24/45 17:59	07:05 07:46-08:20/34 16:21 15:03-15:54/51	07:33 08:00-08:29/29 16:20 15:02-15:51/49
25	05:34 19:41-20:06/25 20:33	06:10 19:11-19:24/13 19:48	06:47 18:50 18:50	07:25 16:37-17:24/47 17:57	07:07 07:45-08:20/35 16:21 15:03-15:54/51	07:33 08:01-08:30/29 16:20 15:03-15:52/49
26	05:35 19:41-20:05/24 20:32	06:11 18:34-18:52/18 19:46 19:13-19:22/9	06:48 18:48 18:48	07:26 16:36-17:24/48 17:55	07:08 07:45-08:20/35 16:20 15:03-15:53/50	07:34 08:01-08:30/29 16:21 15:03-15:53/50
27	05:36 19:41-20:04/23 20:31	06:12 18:31-18:56/25 19:44 19:16-19:21/5	06:49 18:46 18:46	07:27 16:35-17:24/49 17:54	07:09 07:45-08:21/36 16:20 15:02-15:52/50	07:34 08:01-08:30/29 16:22 15:03-15:53/50
28	05:37 19:42-20:03/21 20:30	06:13 18:29-18:57/28 19:43	06:50 18:45 18:45	07:29 16:34-17:24/50 17:52	07:10 07:47-08:22/35 16:19 15:03-15:52/49	07:34 08:02-08:31/29 16:22 15:04-15:54/50
29	05:38 19:42-20:02/20 20:29	06:15 18:27-18:58/31 19:41	06:52 18:43 18:43	07:30 16:34-17:24/50 17:51	07:12 07:47-08:22/35 16:18 15:03-15:51/48	07:35 08:03-08:32/29 16:23 15:05-15:55/50
30	05:39 19:22-19:32/10 20:28	06:16 18:25-18:59/34 19:39	06:53 17:51-18:01/10 18:41	07:32 16:33-17:24/51 17:49	07:13 07:47-08:22/35 16:18 15:01-15:51/50	07:35 08:03-08:33/30 16:24 15:06-15:56/50
31	05:41 19:19-19:34/15 20:27	06:17 18:23-19:00/37 19:37		07:33 16:33-17:23/50 17:48		07:35 08:03-08:33/30 16:25 15:06-15:57/51
Potential sun hours	472	436	376	341	288	274
Sum of minutes with flicker	921	943	714	867	2026	2498

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 7 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (93)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35 13:57-15:05/68 16:26	07:17 14:21-15:03/42 17:04	06:36 17:44	06:39 19:24	05:48 20:00					05:14 05:38-06:06/28 20:35 18:47-20:04/77	
2	07:35 13:58-15:06/68 16:27	07:16 14:24-15:02/38 17:06	06:34 17:45	06:37 19:25	05:46 20:01					05:14 05:37-06:06/29 20:35 18:47-20:04/77	
3	07:35 13:59-15:06/67 16:28	07:15 14:26-15:01/35 17:07	06:33 17:46	06:35 19:26	05:45 20:03					05:13 05:37-06:06/29 20:36 18:47-20:04/77	
4	07:35 13:58-15:06/68 16:29	07:14 14:29-14:59/30 17:08	06:31 17:48	06:34 19:27	05:43 20:04					05:13 05:36-06:06/30 20:37 18:46-20:04/78	
5	07:35 13:59-15:06/67 16:30	07:13 14:31-14:56/25 17:10	06:29 17:49	06:32 19:29	05:42 20:05					05:12 05:36-06:07/31 20:38 18:47-20:05/78	
6	07:35 13:59-15:07/68 16:31	07:11 14:36-14:52/16 17:11	06:27 17:50	06:30 19:30	05:40 20:06	19:15-19:24/9				05:12 05:36-06:07/31 20:39 18:47-20:06/79	
7	07:35 14:00-15:08/68 16:32	07:10 17:13	06:25 17:52	06:28 19:31	05:39 20:07	19:09-19:29/20				05:11 05:36-06:07/31 20:39 18:47-20:05/78	
8	07:34 14:00-15:07/67 16:33	07:09 17:14	06:24 17:53	06:26 19:33	05:38 20:09	19:06-19:33/27				05:11 05:36-06:07/31 20:40 18:47-20:06/79	
9	07:34 14:01-15:08/67 16:34	07:07 17:16	06:22 17:54	06:24 19:34	05:36 20:10	19:03-19:35/32				05:11 05:37-06:07/30 20:41 18:47-20:07/80	
10	07:34 14:02-15:09/67 16:35	07:06 17:17	06:20 17:56	06:23 19:35	05:35 20:11	19:01-19:38/37				05:11 05:37-06:08/31 20:41 18:48-20:07/79	
11	07:34 14:02-15:08/66 16:36	07:05 17:18	06:18 17:57	06:21 19:36	05:34 20:12	19:00-19:39/39				05:10 05:38-06:08/30 20:42 18:47-20:07/80	
12	07:33 14:03-15:09/66 16:37	07:03 17:20	06:16 17:58	06:19 19:38	05:33 20:14	18:57-19:40/43				05:10 05:37-06:07/30 20:43 18:47-20:07/80	
13	07:33 14:03-15:09/66 16:39	07:02 17:21	06:15 17:59	06:17 19:39	05:31 20:15	18:56-19:42/46				05:10 05:37-06:08/31 20:43 18:47-20:07/80	
14	07:32 14:04-15:10/66 16:40	07:00 17:23	06:13 19:01	06:15 19:40	05:30 20:16	18:55-19:43/48				05:10 05:38-06:08/30 20:44 18:48-20:08/80	
15	07:32 14:04-15:09/65 16:41	06:59 17:24	06:11 19:02	06:14 19:41	05:29 20:17	18:54-19:45/51				05:10 05:38-06:08/30 20:44 18:48-20:08/80	
16	07:31 14:05-15:10/65 16:42	06:57 17:26	07:09 19:03	06:12 19:43	05:28 20:18	05:50-05:51/1				05:10 05:38-06:08/30 20:45 18:48-20:08/80	
17	07:31 14:06-15:10/64 16:44	06:56 17:27	07:07 19:05	06:10 19:44	05:27 20:19	05:49-05:55/6				05:10 05:38-06:08/30 20:45 18:48-20:08/80	
18	07:30 14:06-15:10/64 16:45	06:54 17:28	07:05 19:06	06:09 19:45	05:26 20:20	05:48-05:57/9				05:10 05:38-06:08/30 20:46 18:48-20:08/80	
19	07:29 14:07-15:10/63 16:46	06:53 17:30	07:03 19:07	06:07 19:46	05:25 20:22	05:47-05:58/11				05:10 05:39-06:09/30 20:46 18:48-20:09/81	
20	07:29 14:08-15:10/62 16:48	06:51 17:31	07:02 19:08	06:05 19:48	05:24 20:23	05:46-05:59/13				05:10 05:40-06:09/29 20:46 18:49-20:10/81	
21	07:28 14:09-15:10/61 16:49	06:49 17:33	07:00 19:10	06:03 19:49	05:23 20:24	05:45-06:00/15				05:10 05:40-06:09/29 20:46 18:49-20:10/81	
22	07:27 14:10-15:10/60 16:50	06:48 17:34	06:58 19:11	06:02 19:50	05:22 20:25	05:44-06:01/17				05:11 05:40-06:09/29 20:47 18:49-20:10/81	
23	07:26 14:10-15:09/59 16:52	06:46 17:35	06:56 19:12	06:00 19:51	05:21 20:26	05:44-06:02/18				05:11 05:39-06:09/30 20:47 18:49-20:10/81	
24	07:25 14:11-15:09/58 16:53	06:45 17:37	06:54 19:14	05:59 19:53	05:20 20:27	05:43-06:03/20				05:11 05:40-06:10/30 20:47 18:50-20:11/81	
25	07:25 14:12-15:09/57 16:54	06:43 17:38	06:52 19:15	05:57 19:54	05:19 20:28	05:42-06:03/21				05:11 05:40-06:10/30 20:47 18:50-20:10/80	
26	07:24 14:13-15:08/55 16:56	06:41 17:39	06:50 19:16	05:55 19:55	05:18 20:29	05:41-06:03/22				05:12 05:40-06:10/30 20:47 18:50-20:10/80	
27	07:23 14:14-15:08/54 16:57	06:39 17:41	06:48 19:17	05:54 19:56	05:18 20:30	05:41-06:04/23				05:12 05:41-06:11/30 20:47 18:51-20:11/80	
28	07:22 14:16-15:07/51 16:58	06:38 17:42	06:47 19:19	05:52 19:58	05:17 20:31	05:40-06:05/25				05:13 05:41-06:11/30 20:47 18:51-20:11/80	
29	07:21 14:17-15:07/50 17:00		06:45 19:20	05:51 19:59	05:16 20:32	05:39-06:04/25				05:13 05:41-06:12/31 20:47 18:52-20:11/79	
30	07:20 14:19-15:06/47 17:01		06:43 19:21	05:49 20:00	05:15 20:33	05:39-06:05/26				05:13 05:41-06:11/30 20:47 18:51-20:11/80	
31	07:18 14:20-15:05/45 17:03		06:41 19:22		05:15 20:34	05:38-06:05/27					
Potential sun hours		286		369	404	459	466				
Sum of minutes with flicker		1919	186	0	0	1721	3287				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR

217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 7 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (93)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November		December	
1	05:14	05:42-06:12/30	05:42	19:09-19:50/41	06:18	06:54	06:34			07:14	13:44-14:50/66
	20:47	18:52-20:12/80	20:25		19:35	18:39	16:46			16:17	
2	05:15	05:41-06:12/31	05:43	19:10-19:48/38	06:19	06:55	06:36			07:15	13:44-14:51/67
	20:47	18:52-20:11/79	20:24		19:33	18:37	16:45			16:17	
3	05:15	05:42-06:13/31	05:44	19:12-19:46/34	06:20	06:56	06:37			07:16	13:45-14:52/67
	20:47	18:52-20:12/80	20:23		19:32	18:35	16:44			16:17	
4	05:16	05:41-06:12/31	05:45	19:15-19:45/30	06:22	06:58	06:38			07:17	13:45-14:52/67
	20:47	18:52-20:11/79	20:22		19:30	18:33	16:42			16:16	
5	05:16	05:42-06:13/31	05:46	19:17-19:42/25	06:23	06:59	06:40	14:05-14:23/18		07:18	13:45-14:53/68
	20:46	18:53-20:12/79	20:20		19:28	18:31	16:41			16:16	
6	05:17	05:43-06:13/30	05:47	19:21-19:38/17	06:24	07:00	06:41	14:01-14:26/25		07:19	13:46-14:53/67
	20:46	18:53-20:12/79	20:19		19:26	18:30	16:39			16:16	
7	05:18	05:42-06:13/31	05:48		06:25	07:01	06:42	13:59-14:29/30		07:20	13:46-14:53/67
	20:46	18:53-20:11/78	20:18		19:24	18:28	16:38			16:16	
8	05:18	05:43-06:13/30	05:50		06:26	07:03	06:44	13:56-14:31/35		07:21	13:46-14:54/68
	20:45	18:54-20:12/78	20:16		19:22	18:26	16:37			16:16	
9	05:19	05:44-06:14/30	05:51		06:28	07:04	06:45	13:54-14:33/39		07:22	13:47-14:54/67
	20:45	18:54-20:12/78	20:15		19:20	18:24	16:36			16:16	
10	05:20	05:44-06:13/29	05:52		06:29	07:05	06:47	13:52-14:34/42		07:23	13:47-14:55/68
	20:44	18:54-20:11/77	20:13		19:19	18:22	16:35			16:16	
11	05:21	05:45-06:13/28	05:53		06:30	07:06	06:48	13:51-14:36/45		07:24	13:48-14:55/67
	20:44	18:54-20:11/77	20:12		19:17	18:20	16:33			16:16	
12	05:22	05:46-06:14/28	05:54		06:31	07:08	06:49	13:50-14:37/47		07:25	13:48-14:56/68
	20:43	18:55-20:11/76	20:10		19:15	18:19	16:32			16:16	
13	05:22	05:47-06:14/27	05:56		06:32	07:09	06:51	13:49-14:39/50		07:26	13:49-14:56/67
	20:43	18:55-20:11/76	20:09		19:13	18:17	16:31			16:16	
14	05:23	05:48-06:14/26	05:57		06:33	07:10	06:52	13:48-14:39/51		07:27	13:48-14:56/68
	20:42	18:56-20:11/75	20:07		19:11	18:15	16:30			16:16	
15	05:24	05:49-06:14/25	05:58		06:35	07:12	06:53	13:47-14:41/54		07:27	13:49-14:57/68
	20:42	18:55-20:10/75	20:06		19:09	18:13	16:29			16:16	
16	05:25	05:49-06:13/24	05:59		06:36	07:13	06:55	13:46-14:41/55		07:28	13:50-14:57/67
	20:41	18:56-20:10/74	20:04		19:07	18:12	16:28			16:16	
17	05:26	05:50-06:13/23	06:00		06:37	07:14	06:56	13:46-14:43/57		07:29	13:50-14:58/68
	20:40	18:57-20:09/72	20:03		19:05	18:10	16:27			16:17	
18	05:27	05:51-06:13/22	06:01		06:38	07:15	06:57	13:45-14:43/58		07:30	13:50-14:58/68
	20:39	18:57-20:09/72	20:01		19:03	18:08	16:26			16:17	
19	05:28	05:52-06:13/21	06:03		06:39	07:17	06:59	13:44-14:43/59		07:30	13:51-14:59/68
	20:39	18:58-20:08/70	19:58		19:02	18:07	16:25			16:17	
20	05:29	05:53-06:12/19	06:04		06:41	07:18	07:00	13:45-14:45/60		07:31	13:51-14:59/68
	20:38	18:58-20:08/70	19:56		19:00	18:05	16:24			16:18	
21	05:30	05:54-06:12/18	06:05		06:42	07:19	07:01	13:44-14:45/61		07:31	13:52-15:00/68
	20:37	18:59-20:07/68	19:54		18:58	18:03	16:24			16:18	
22	05:31	05:55-06:11/16	06:06		06:43	07:21	07:03	13:44-14:46/62		07:32	13:52-15:00/68
	20:36	18:59-20:06/67	19:53		18:56	18:02	16:23			16:19	
23	05:32	05:56-06:10/14	06:07		06:44	07:22	07:04	13:44-14:47/63		07:32	13:53-15:01/68
	20:35	19:00-20:05/65	19:51		18:54	18:00	16:22			16:19	
24	05:33	05:57-06:09/12	06:09		06:45	07:23	07:05	13:43-14:47/64		07:33	13:53-15:01/68
	20:34	19:01-20:04/63	19:49		18:52	17:58	16:21			16:20	
25	05:34	05:58-06:08/10	06:10		06:47	07:25	07:06	13:44-14:48/64		07:33	13:54-15:02/68
	20:33	19:02-20:03/61	19:48		18:50	17:57	16:21			16:20	
26	05:35	05:59-06:07/8	06:11		06:48	07:26	07:08	13:43-14:48/65		07:34	13:54-15:02/68
	20:32	19:02-20:02/60	19:46		18:48	17:55	16:20			16:21	
27	05:36	06:00-06:04/4	06:12		06:49	07:27	07:09	13:43-14:48/65		07:34	13:55-15:02/67
	20:31	19:03-20:00/57	19:44		18:46	17:54	16:19			16:22	
28	05:37	19:04-19:56/52	06:13		06:50	07:29	07:10	13:44-14:50/66		07:34	13:55-15:03/68
	20:30	19:56-19:57/1	19:42		18:44	17:52	16:19			16:22	
29	05:38	19:05-19:54/49	06:14		06:51	07:30	07:11	13:44-14:50/66		07:34	13:55-15:03/68
	20:29		19:41		18:43	17:51	16:18			16:23	
30	05:39	19:06-19:53/47	06:16		06:53	07:31	07:13	13:44-14:50/66		07:35	13:57-15:04/67
	20:28		19:39		18:41	17:49	16:18			16:24	
31	05:40	19:07-19:52/45	06:17			07:33				07:35	13:57-15:05/68
	20:27		19:37			17:48				16:25	
Potential sun hours	472				376	341	288			274	
Sum of minutes with flicker	2788	436	185	0	0	1367	2095				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdoc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 8 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (94)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	14:00-15:11/71	07:17	14:22-15:10/48	06:36		06:39	17:35-18:36/61	05:48		05:14	
	16:26		17:04		17:44		19:24		20:00		20:35	
2	07:35	14:00-15:11/71	07:16	14:24-15:09/45	06:34		06:37	17:35-18:35/60	05:46		05:14	
	16:27		17:06		17:45		19:25		20:01		20:35	
3	07:35	14:01-15:12/71	07:15	14:26-15:08/42	06:33		06:35	17:34-18:34/60	05:45		05:13	
	16:28		17:07		17:46		19:26		20:03		20:36	
4	07:35	14:01-15:11/70	07:14	14:29-15:07/38	06:31		06:34	17:35-18:34/59	05:43		05:13	
	16:29		17:08		17:48		19:27		20:04		20:37	
5	07:35	14:01-15:12/71	07:13	14:31-15:05/34	06:29		06:32	17:36-18:34/58	05:42		05:12	
	16:30		17:10		17:49		19:29		20:05		20:38	
6	07:35	14:02-15:13/71	07:11	14:34-15:03/29	06:27		06:30	17:36-18:33/57	05:40		05:12	
	16:31		17:11		17:50		19:30		20:06		20:39	
7	07:35	14:03-15:13/70	07:10	14:38-15:00/22	06:25		06:28	17:36-18:31/55	05:39		05:11	
	16:32		17:13		17:52		19:31		20:08		20:39	
8	07:34	14:02-15:13/71	07:09	14:43-14:54/11	07:24		06:26	17:36-18:30/54	05:38		05:11	
	16:33		17:14		18:53		19:33		20:09		20:40	
9	07:34	14:03-15:14/71	07:07		07:22		06:24	17:38-18:30/52	05:36		05:11	
	16:34		17:16		18:54		19:34		20:10		20:41	
10	07:34	14:04-15:14/70	07:06		07:20		06:23	17:38-18:29/51	05:35		05:11	
	16:35		17:17		18:56		19:35		20:11		20:41	
11	07:34	14:04-15:14/70	07:05		07:18	18:03-18:21/18	06:21	17:39-18:27/48	05:34		05:10	
	16:36		17:18		18:57		19:36		20:12		20:42	
12	07:33	14:05-15:15/70	07:03		07:16	17:58-18:24/26	06:19	17:40-18:25/45	05:33		05:10	
	16:37		17:20		18:58		19:38		20:14		20:43	
13	07:33	14:05-15:15/70	07:02		07:15	17:55-18:27/32	06:17	17:41-18:24/43	05:31		05:10	
	16:39		17:21		18:59		19:39		20:15		20:43	
14	07:32	14:06-15:15/69	07:00		07:13	17:52-18:29/37	06:15	17:43-18:23/40	05:30		05:10	
	16:40		17:23		19:01		19:40		20:16		20:44	
15	07:32	14:06-15:15/69	06:59		07:11	17:50-18:30/40	06:14	17:44-18:20/36	05:29		05:10	
	16:41		17:24		19:02		19:41		20:17		20:44	
16	07:31	14:08-15:16/68	06:57		07:09	17:48-18:32/44	06:12	17:46-18:18/32	05:28		05:10	
	16:42		17:26		19:03		19:43		20:18		20:45	
17	07:31	14:08-15:16/68	06:56		07:07	17:46-18:33/47	06:10	17:49-18:16/27	05:27		05:10	
	16:44		17:27		19:05		19:44		20:19		20:45	
18	07:30	14:08-15:16/68	06:54		07:05	17:44-18:34/50	06:09	17:51-18:12/21	05:26		05:10	
	16:45		17:28		19:06		19:45		20:20		20:46	
19	07:29	14:09-15:15/66	06:53		07:03	17:44-18:35/51	06:07	17:55-18:07/12	05:25		05:10	
	16:46		17:30		19:07		19:46		20:22		20:46	
20	07:29	14:10-15:16/66	06:51		07:02	17:42-18:36/54	06:05		05:24		05:10	
	16:48		17:31		19:08		19:48		20:23		20:46	
21	07:28	14:11-15:16/65	06:49		07:00	17:41-18:36/55	06:03		05:23		05:10	
	16:49		17:33		19:10		19:49		20:24		20:46	
22	07:27	14:12-15:16/64	06:48		06:58	17:40-18:37/57	06:02		05:22		05:11	
	16:50		17:34		19:11		19:50		20:25		20:47	
23	07:26	14:12-15:15/63	06:46		06:56	17:39-18:37/58	06:00		05:21		05:11	
	16:52		17:35		19:12		19:51		20:26		20:47	
24	07:25	14:13-15:15/62	06:45		06:54	17:38-18:37/59	05:59		05:20		05:11	
	16:53		17:37		19:14		19:53		20:27		20:47	
25	07:25	14:14-15:15/61	06:43		06:52	17:37-18:37/60	05:57		05:19		05:11	
	16:54		17:38		19:15		19:54		20:28		20:47	
26	07:24	14:15-15:15/60	06:41		06:50	17:36-18:37/61	05:55		05:18		05:12	
	16:56		17:39		19:16		19:55		20:29		20:47	
27	07:23	14:16-15:14/58	06:39		06:48	17:36-18:37/61	05:54		05:18		05:12	
	16:57		17:41		19:17		19:56		20:30		20:47	
28	07:22	14:17-15:14/57	06:38		06:47	17:36-18:37/61	05:52		05:17		05:13	
	16:58		17:42		19:19		19:58		20:31		20:47	
29	07:21	14:19-15:13/54			06:45	17:36-18:37/61	05:51		05:16		05:13	
	17:00				19:20		19:59		20:32		20:47	
30	07:20	14:20-15:13/53			06:43	17:35-18:37/62	05:49		05:15		05:13	
	17:01				19:21		20:00		20:33		20:47	
31	07:19	14:22-15:12/50			06:41	17:35-18:36/61			05:15			
	17:03				19:22				20:34			
Potential sun hours	286		291		369		404		459		466	
Sum of minutes with flicker	2038		269		1055		871		0		0	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 8 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (94)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 20:47	05:42 20:25	06:18 17:38-18:26/48 19:35	06:54 17:36-18:04/28 18:39	06:34 16:46	07:14 13:46-14:56/70 16:17
2	05:15 20:47	05:43 20:24	06:19 17:36-18:27/51 19:33	06:55 17:39-18:00/21 18:37	06:36 16:45	07:15 13:47-14:57/70 16:17
3	05:15 20:47	05:44 20:23	06:20 17:35-18:27/52 19:32	06:56 17:45-17:55/10 18:35	06:37 14:11-14:25/14 16:44	07:16 13:47-14:58/71 16:17
4	05:16 20:47	05:45 20:22	06:22 17:34-18:28/54 19:30	06:58 18:33	06:38 14:07-14:30/23 16:42	07:17 13:47-14:58/71 16:16
5	05:16 20:46	05:46 20:20	06:23 17:33-18:28/55 19:28	06:59 18:31	06:40 14:03-14:33/30 16:41	07:18 13:48-14:58/70 16:16
6	05:17 20:46	05:47 20:19	06:24 17:32-18:29/57 19:26	07:00 18:30	06:41 14:01-14:36/35 16:40	07:19 13:48-14:59/71 16:16
7	05:18 20:46	05:48 20:18	06:25 17:31-18:29/58 19:24	07:01 18:28	06:42 13:58-14:37/39 16:38	07:20 13:48-14:59/71 16:16
8	05:18 20:45	05:50 20:16	06:26 17:30-18:29/59 19:22	07:03 18:26	06:44 13:56-14:38/42 16:37	07:21 13:49-14:59/70 16:16
9	05:19 20:45	05:51 20:15	06:28 17:29-18:28/59 19:20	07:04 18:24	06:45 13:55-14:40/45 16:36	07:22 13:49-15:00/71 16:16
10	05:20 20:44	05:52 20:13	06:29 17:28-18:28/60 19:19	07:05 18:22	06:47 13:53-14:41/48 16:35	07:23 13:49-15:00/71 16:16
11	05:21 20:44	05:53 20:12	06:30 17:27-18:28/61 19:17	07:06 18:20	06:48 13:52-14:43/51 16:33	07:24 13:50-15:01/71 16:16
12	05:22 20:43	05:54 20:10	06:31 17:27-18:28/61 19:15	07:08 18:19	06:49 13:51-14:44/53 16:32	07:25 13:51-15:01/70 16:16
13	05:22 20:43	05:56 20:09	06:32 17:26-18:28/62 19:13	07:09 18:17	06:51 13:50-14:45/55 16:31	07:26 13:51-15:02/71 16:16
14	05:23 20:42	05:57 20:07	06:33 17:26-18:27/61 19:11	07:10 18:15	06:52 13:49-14:46/57 16:30	07:27 13:51-15:02/71 16:16
15	05:24 20:42	05:58 20:06	06:35 17:25-18:27/62 19:09	07:12 18:13	06:53 13:49-14:47/58 16:29	07:27 13:51-15:02/71 16:16
16	05:25 20:41	05:59 20:04	06:36 17:25-18:26/61 19:07	07:13 18:12	06:55 13:48-14:48/60 16:28	07:28 13:52-15:03/71 16:16
17	05:26 20:40	06:00 20:03	06:37 17:25-18:25/60 19:05	07:14 18:10	06:56 13:48-14:49/61 16:27	07:29 13:53-15:04/71 16:17
18	05:27 20:39	06:01 20:01	06:38 17:25-18:25/60 19:03	07:15 18:08	06:57 13:47-14:49/62 16:26	07:30 13:53-15:04/71 16:17
19	05:28 20:39	06:03 19:58	06:39 17:25-18:24/59 19:02	07:17 18:07	06:59 13:46-14:49/63 16:25	07:30 13:54-15:04/70 16:17
20	05:29 20:38	06:04 19:56	06:41 17:25-18:23/58 19:00	07:18 18:05	07:00 13:47-14:51/64 16:24	07:31 13:54-15:04/70 16:18
21	05:30 20:37	06:05 19:55	06:42 17:25-18:22/57 18:58	07:19 18:03	07:01 13:46-14:51/65 16:24	07:31 13:54-15:05/71 16:18
22	05:31 20:36	06:06 19:53	06:43 17:25-18:21/56 18:56	07:21 18:02	07:03 13:46-14:52/66 16:23	07:32 13:54-15:05/71 16:19
23	05:32 20:35	06:07 19:51	06:44 17:25-18:20/55 18:54	07:22 18:00	07:04 13:46-14:52/66 16:22	07:32 13:56-15:06/70 16:19
24	05:33 20:34	06:09 17:58-18:12/14 19:49	06:45 17:27-18:19/52 18:52	07:23 17:58	07:05 13:45-14:53/68 16:21	07:33 13:56-15:06/70 16:20
25	05:34 20:33	06:10 17:54-18:16/22 19:48	06:47 17:27-18:17/50 18:50	07:25 17:57	07:06 13:46-14:54/68 16:21	07:33 13:57-15:08/71 16:20
26	05:35 20:32	06:11 17:50-18:18/28 19:46	06:48 17:28-18:16/48 18:48	07:26 17:55	07:08 13:46-14:54/68 16:20	07:34 13:57-15:08/71 16:21
27	05:36 20:31	06:12 17:47-18:20/33 19:44	06:49 17:29-18:14/45 18:46	07:27 17:54	07:09 13:46-14:54/68 16:19	07:34 13:57-15:08/71 16:22
28	05:37 20:30	06:13 17:46-18:22/36 19:42	06:50 17:30-18:12/42 18:44	07:29 17:52	07:10 13:46-14:55/69 16:19	07:34 13:57-15:08/71 16:22
29	05:38 20:29	06:15 17:44-18:24/40 19:41	06:51 17:32-18:10/38 18:43	07:30 17:51	07:11 13:46-14:56/70 16:18	07:34 13:58-15:09/71 16:23
30	05:39 20:28	06:16 17:42-18:25/43 19:39	06:53 17:34-18:07/33 18:41	07:31 17:49	07:13 13:46-14:56/70 16:18	07:35 13:59-15:10/71 16:24
31	05:40 20:27	06:17 17:40-18:25/45 19:37		07:33 17:48		07:35 13:59-15:10/71 16:25
Potential sun hours	472	436	376	341	288	274
Sum of minutes with flicker	0	261	1634	59	1538	2192

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 9 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (95)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35 16:26	15:17-15:41/24	07:17 17:04	16:15-16:38/23	06:36 17:44	17:04-17:21/17	06:39 19:24	18:22-19:01/39	05:48 20:00	06:09-06:21/12	05:14 20:35	05:38-05:42/4 19:34-20:05/31
2	07:35 16:27	15:18-15:41/23	07:16 17:06	16:16-16:40/24	06:34 17:45	17:02-17:22/20	06:37 19:25	18:23-19:02/39	05:46 20:01	06:07-06:21/14	05:14 20:36	05:37-05:43/6 19:34-20:04/30
3	07:35 16:28	15:19-15:41/22	07:15 17:07	16:17-16:41/24	06:33 17:46	17:00-17:23/23	06:36 19:26	06:56-06:59/3	05:45 20:03	06:06-06:22/16	05:13 20:36	05:37-05:45/8 19:35-20:04/29
4	07:35 16:29	15:20-15:42/22	07:14 17:09	16:18-16:41/23	06:31 17:48	16:59-17:24/25	06:34 19:28	06:54-07:01/7	05:43 20:04	06:05-06:22/17	05:13 20:37	05:37-05:46/9 19:35-20:04/29
5	07:35 16:30	15:20-15:41/21	07:13 17:10	16:17-16:39/22	06:29 17:49	16:59-17:26/27	06:32 19:29	06:52-07:03/11	05:42 20:05	06:03-06:22/19	05:12 20:38	05:36-05:47/11 19:36-20:04/28
6	07:35 16:31	15:21-15:41/20	07:11 17:11	16:16-16:40/24	06:27 17:50	16:58-17:28/30	06:30 19:30	06:50-07:04/14	05:41 20:06	06:02-06:22/20	05:12 20:39	05:36-05:48/12 19:37-20:04/27
7	07:35 16:32	15:23-15:41/18	07:10 17:13	16:16-16:39/23	06:26 17:52	16:57-17:29/32	06:28 19:31	06:48-07:04/16	05:39 20:08	06:01-06:22/21	05:12 20:40	05:36-05:49/13 19:37-20:03/26
8	07:34 16:33	15:24-15:41/17	07:09 17:14	16:15-16:37/22	07:24 18:53	17:56-18:30/34	06:26 19:33	06:47-07:05/18	05:38 20:09	05:59-06:21/22	05:11 20:40	05:35-05:49/14 19:38-20:03/25
9	07:34 16:34	15:25-15:40/15	07:07 17:16	16:15-16:35/20	07:22 18:54	17:56-18:31/35	06:25 19:34	06:45-07:05/20	05:37 20:10	05:58-06:21/23	05:11 20:41	05:35-05:49/14 19:38-20:03/25
10	07:34 16:35	15:27-15:39/12	07:06 17:17	16:16-16:53/37	07:20 18:56	17:56-18:30/34	06:23 19:35	06:43-07:05/22	05:35 20:11	05:58-06:21/23	05:11 20:42	05:35-05:50/15 19:39-20:03/24
11	07:34 16:36	15:28-15:38/10	07:05 17:19	16:15-16:54/39	07:18 18:57	17:56-18:31/35	06:21 19:36	06:41-07:04/23	05:34 20:12	05:59-06:21/22	05:10 20:42	05:35-05:51/16 19:40-20:04/24
12	07:33 16:38	15:32-15:36/4	07:03 17:20	16:15-16:56/41	07:16 18:58	17:56-18:30/34	06:19 19:38	06:39-07:04/25	05:33 20:14	06:00-06:20/20	05:10 20:43	05:35-05:51/16 19:39-20:03/24
13	07:33 16:39		07:02 17:21	16:15-16:57/42	07:15 19:00	17:57-18:29/32	06:17 19:39	06:38-07:04/26	05:31 20:15	05:59-06:19/20	05:10 20:43	05:34-05:51/17 19:40-20:03/23
14	07:32 16:40		07:00 17:23	16:16-16:59/43	07:13 19:01	17:57-18:28/31	06:16 19:40	06:36-07:02/26	05:30 20:16	06:00-06:18/18	05:10 20:44	05:34-05:51/17 19:41-20:03/22
15	07:32 16:41		06:59 17:24	16:15-17:00/45	07:11 19:02	17:57-18:27/30	06:14 19:41	06:34-07:01/27	05:29 20:17	06:01-06:17/16	05:10 20:44	05:34-05:52/18 19:41-20:03/22
16	07:31 16:42		06:57 17:26	16:16-17:02/46	07:09 19:03	17:58-18:25/27	06:12 19:43	06:32-06:59/27	05:28 20:18	06:03-06:16/13	05:10 20:45	05:34-05:53/18 19:41-20:03/22
17	07:31 16:44		06:56 17:27	16:17-17:01/44	07:07 19:05	17:59-18:23/24	06:10 19:44	06:31-06:58/27	05:27 20:19	06:05-06:14/9	05:10 20:45	05:34-05:52/18 19:42-20:03/21
18	07:30 16:45		06:54 17:28	16:17-17:01/44	07:05 19:06	18:02-18:22/20	06:09 19:45	06:29-06:55/26	05:26 20:21	06:08-06:11/3	05:10 20:46	05:35-05:53/18 19:42-20:02/20
19	07:29 16:46		06:53 17:30	16:18-17:01/43	07:03 19:07	18:04-18:19/15	06:07 19:46	06:27-06:51/24	05:25 20:22	19:31-19:56/25	05:10 20:46	05:35-05:54/19 19:43-20:03/20
20	07:29 16:48		06:51 17:31	16:19-17:01/42	07:02 19:09	18:08-18:15/7	06:05 19:48	06:26-06:51/25	05:24 20:23	19:31-19:57/26	05:10 20:46	05:35-05:54/19 19:43-20:03/20
21	07:28 16:49	16:19-16:22/3	06:50 17:33	16:20-17:00/40	07:00 19:10	18:28-18:47/19	06:04 19:49	06:25-06:51/26	05:23 20:24	19:31-19:58/27	05:10 20:47	05:35-05:54/19 19:43-20:03/20
22	07:27 16:50	16:18-16:23/5	06:48 17:34	16:22-17:00/38	06:58 19:11	18:27-18:49/22	06:02 19:50	06:26-06:51/25	05:22 20:25	19:32-20:00/28	05:11 20:47	05:35-05:54/19 19:43-20:03/20
23	07:26 16:52	16:17-16:25/8	06:46 17:35	16:24-16:59/35	06:56 19:12	18:25-18:50/25	06:00 19:51	06:26-06:50/24	05:21 20:26	19:32-20:01/29	05:11 20:47	05:36-05:55/19 19:43-20:03/20
24	07:26 16:53	16:16-16:26/10	06:45 17:37	16:27-16:57/30	06:54 19:14	18:24-18:51/27	05:59 19:53	06:26-06:49/23	05:20 20:27	19:32-20:02/30	05:11 20:47	05:36-05:55/19 19:44-20:04/20
25	07:25 16:54	16:16-16:27/11	06:43 17:38	16:32-16:57/25	06:52 19:15	18:23-18:52/29	05:57 19:54	06:27-06:48/21	05:19 20:28	19:32-20:02/30	05:12 20:47	05:36-05:54/18 19:44-20:05/21
26	07:24 16:56	16:16-16:29/13	06:41 17:40	16:33-16:55/22	06:50 19:16	18:23-18:53/30	05:55 19:55	06:27-06:46/19	05:18 20:29	19:32-20:03/31	05:12 20:47	05:37-05:55/18 19:44-20:05/21
27	07:23 16:57	16:15-16:31/16	06:40 17:41	16:35-16:52/17	06:49 19:18	18:23-18:55/32	05:54 19:56	06:29-06:45/16	05:18 20:30	19:33-20:04/31	05:12 20:47	05:37-05:55/18 19:44-20:06/22
28	07:22 16:59	16:15-16:32/17	06:38 17:42	16:38-16:50/12	06:47 19:19	18:23-18:56/33	05:52 19:58	06:13-06:17/4	05:17 20:31	19:33-20:05/32	05:13 20:47	05:37-05:54/17 19:44-20:06/22
29	07:21 17:00	16:15-16:34/19			06:45 19:20	18:22-18:57/35	05:51 19:59	06:12-06:19/7	05:16 20:32	19:33-20:05/32	05:13 20:47	05:38-05:55/17 19:44-20:07/23
30	07:20 17:01	16:16-16:35/19			06:43 19:21	18:22-18:59/37	05:49 20:00	06:10-06:20/10	05:16 20:33	19:33-20:05/32	05:14 20:47	05:38-05:55/17 19:44-20:07/23
31	07:19 17:03	16:16-16:37/21			06:41 19:23	18:22-19:00/38			05:15 20:34	05:38-05:40/2 19:33-20:04/31		
Potential sun hours	286		291		369		404		459		466	
Sum of minutes with flicker	350		967		903		890		882		1167	

Project:

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8/28/2015 10:59 AM / 70

Licensed user:

EDR217 Montgomery St.
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Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG: 9 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (95)****Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:14	05:39-05:55/16	05:42	06:09-06:30/21	06:18	06:40-07:03/23	06:54	17:35-18:09/34	06:34	15:44-16:21/37	07:14	15:10-15:20/10
	20:47	19:44-20:08/24	20:25	19:44-19:59/15	19:35	18:40-18:50/10	18:39		16:46		16:18	
2	05:15	05:39-05:54/15	05:43	06:09-06:32/23	06:19	06:41-07:03/22	06:55	17:34-18:08/34	06:36	15:45-16:05/20	07:15	15:10-15:22/12
	20:47	19:43-20:07/24	20:24	19:44-19:57/13	19:34	18:37-18:53/16	18:37		16:45	16:04-16:20/16	16:17	
3	05:15	05:40-05:55/15	05:44	06:09-06:32/23	06:21	06:43-07:03/20	06:57	17:34-18:09/35	06:37	15:45-16:07/22	07:16	15:09-15:24/15
	20:47	19:44-20:08/24	20:23	19:46-19:57/11	19:32	18:34-18:54/20	18:35		16:44	16:06-16:18/12	16:17	
4	05:16	05:40-05:54/14	05:45	06:09-06:32/23	06:22	06:44-07:02/18	06:58	17:34-18:09/35	06:38	15:46-16:09/23	07:17	15:08-15:25/17
	20:47	19:43-20:08/25	20:22	19:47-19:56/9	19:30	18:33-18:56/23	18:33		16:42	16:08-16:17/9	16:17	
5	05:16	05:41-05:54/13	05:46	06:10-06:32/22	06:23	06:45-07:01/16	06:59	17:33-18:08/35	06:40	15:46-16:10/24	07:18	15:08-15:26/18
	20:46	19:43-20:09/26	20:20	19:48-19:54/6	19:28	18:27-18:57/30	18:32		16:41	16:09-16:16/7	16:16	
6	05:17	05:42-05:54/12	05:47	06:11-06:32/21	06:24	06:46-07:00/14	07:00	17:34-18:06/32	06:41	15:48-16:10/22	07:19	15:07-15:27/20
	20:46	19:43-20:10/27	20:19	19:50-19:53/3	19:26	18:24-18:58/34	18:30		16:40	16:10-16:15/5	16:16	
7	05:18	05:42-05:53/11	05:49	06:12-06:32/20	06:25	06:47-06:58/11	07:01	17:33-18:04/31	06:43	15:48-16:11/23	07:20	15:07-15:28/21
	20:46	19:43-20:10/27	20:18		19:24	18:21-18:58/37	18:28		16:38	16:11-16:13/2	16:16	
8	05:19	05:43-05:53/10	05:50	06:13-06:31/18	06:26	06:48-06:56/8	07:03	17:33-18:02/29	06:44	15:48-16:12/24	07:21	15:07-15:29/22
	20:45	19:43-20:11/28	20:16		19:22	18:19-18:58/39	18:26		16:37		16:16	
9	05:19	05:44-05:53/9	05:51	06:14-06:31/17	06:28	06:49-06:52/3	07:04	17:33-18:00/27	06:45	15:47-16:10/23	07:22	15:07-15:29/22
	20:45	19:43-20:12/29	20:15		19:21	18:17-18:57/40	18:24		16:36		16:16	
10	05:20	05:45-05:52/7	05:52	06:15-06:30/15	06:29	18:16-18:55/39	07:05	17:35-17:59/24	06:47	15:46-16:09/23	07:23	15:07-15:30/23
	20:45	19:43-20:12/29	20:13		19:19		18:22		16:35		16:16	
11	05:21	05:45-05:50/5	05:53	06:17-06:30/13	06:30	18:16-18:54/38	07:07	17:35-17:57/22	06:48	15:47-16:08/21	07:24	15:08-15:31/23
	20:44	19:42-20:12/30	20:12		19:17		18:21		16:34		16:16	
12	05:22	05:46-05:49/3	05:54	06:18-06:29/11	06:31	18:14-18:52/38	07:08	17:36-17:55/19	06:49	15:47-16:06/19	07:25	15:08-15:32/24
	20:44	19:42-20:13/31	20:11		19:15		18:19		16:32		16:16	
13	05:23	05:42-20:13/31	05:56	06:19-06:28/9	06:32	18:13-18:50/37	07:09	17:15-17:19/4	06:51	15:47-16:06/19	07:26	15:08-15:33/25
	20:43		20:09		19:13		18:17	17:38-17:53/15	16:31		16:16	
14	05:23	19:42-20:14/32	05:57	06:20-06:26/6	06:34	18:13-18:48/35	07:10	17:09-17:24/15	06:52	15:47-16:04/17	07:27	15:09-15:33/24
	20:42		20:07	06:40-06:49/9	19:11		18:15	17:39-17:51/12	16:30		16:16	
15	05:24	19:42-20:14/32	05:58	06:21-06:24/3	06:35	18:12-18:46/34	07:12	17:06-17:26/20	06:53	15:48-16:03/15	07:28	15:08-15:33/25
	20:42		20:06	06:37-06:51/14	19:09		18:14	17:42-17:49/7	16:29		16:16	
16	05:25	19:41-20:13/32	05:59	06:35-06:52/17	06:36	18:11-18:44/33	07:13	17:05-17:28/23	06:55	15:49-16:02/13	07:28	15:09-15:34/25
	20:41		20:04		19:07		18:12		16:28		16:16	
17	05:26	19:41-20:13/32	06:00	06:34-06:53/19	06:37	18:12-18:43/31	07:14	17:03-17:28/25	06:56	15:50-16:01/11	07:29	15:03-15:07/4
	20:40		20:03		19:05		18:10		16:27		16:17	15:09-15:35/26
18	05:27	19:41-20:12/31	06:02	06:32-06:54/22	06:38	18:12-18:41/29	07:16	16:57-17:29/32	06:57	15:50-16:00/10	07:30	15:02-15:08/6
	20:40		20:01		19:04		18:08		16:26		16:17	15:09-15:35/26
19	05:28	19:41-20:11/30	06:03	06:32-06:55/23	06:40	18:11-18:39/28	07:17	16:54-17:30/36	06:59	15:52-16:00/8	07:30	15:02-15:09/7
	20:39		20:00		19:02		18:07		16:25		16:17	15:10-15:36/26
20	05:29	19:41-20:11/30	06:04	06:31-06:56/25	06:41	18:12-18:36/24	07:18	16:52-17:30/38	07:00	15:53-15:58/5	07:31	15:03-15:10/7
	20:38		19:56		19:00		18:05		16:25		16:18	15:11-15:37/26
21	05:30	19:41-20:10/29	06:05	06:31-06:56/25	06:42	18:12-18:34/22	07:19	16:50-17:30/40	07:01	15:54-15:57/3	07:31	15:02-15:10/8
	20:37		19:55		18:58		18:03		16:24		16:18	15:11-15:37/26
22	05:31	19:41-20:09/28	06:06	06:30-06:56/26	06:43	18:12-18:32/20	07:21	16:49-17:31/42	07:03		07:32	15:03-15:37/34
	20:36		19:53		18:56		18:02		16:23		16:19	
23	05:32	19:41-20:08/27	06:07	06:30-06:55/25	06:44	18:14-18:31/17	07:22	16:47-17:31/44	07:04		07:32	15:03-15:11/8
	20:35		19:51		18:54		18:00		16:22		16:19	15:12-15:38/26
24	05:33	19:41-20:07/26	06:09	06:31-06:55/24	06:46	17:48-18:02/14	07:23	16:47-17:31/44	07:05		07:33	15:04-15:11/7
	20:34		19:50		18:52	18:15-18:29/14	17:59		16:21		16:20	15:12-15:38/26
25	05:34	19:41-20:06/25	06:10	06:32-06:58/26	06:47	17:45-18:04/19	07:25	16:46-17:31/45	07:07		07:33	15:05-15:12/7
	20:33		19:48		18:50	18:16-18:27/11	17:57		16:21		16:20	15:13-15:39/26
26	05:35	06:17-06:23/6	06:11	06:33-07:00/27	06:48	17:42-18:05/23	07:26	16:46-17:31/45	07:08		07:34	15:06-15:11/5
	20:32	19:42-20:05/23	19:46		18:48	18:18-18:25/7	17:55		16:20		16:21	15:13-15:39/26
27	05:36	06:14-06:26/12	06:12	06:35-07:02/27	06:49	17:40-18:06/26	07:27	16:45-17:29/44	07:09		07:34	15:08-15:10/2
	20:31	19:42-20:04/22	19:44		18:46		17:54		16:20		16:22	15:14-15:39/25
28	05:37	06:13-06:27/14	06:13	06:36-07:03/27	06:50	17:39-18:08/29	07:29	16:44-17:27/43	07:10		07:34	15:14-15:39/25
	20:30	19:42-20:03/21	19:43		18:45		17:52		16:19		16:22	
29	05:38	06:12-06:28/16	06:15	06:37-07:03/26	06:52	17:38-18:08/30	07:30	16:45-17:26/41	07:11		07:35	15:15-15:40/25
	20:29	19:42-20:02/20	19:41		18:43		17:51		16:18		16:23	
30	05:39	06:11-06:29/18	06:16	06:38-07:04/26	06:53	17:36-18:09/33	07:32	16:44-17:24/40	07:13	15:13-15:16/3	07:35	15:16-15:40/24
	20:28	19:43-20:01/18	19:39		18:41		17:49		16:18		16:24	
31	05:41	06:10-06:30/20	06:17	06:39-07:03/24			07:33	16:45-17:23/38			07:35	15:17-15:41/24
	20:27	19:43-20:00/17	19:37				17:48				16:25	
Potential sun hours	472		436		376		341		288		274	
Sum of minutes with flicker	1046		714		1015		1050		432		778	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

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8/28/2015 10:59 AM / 71

Licensed user:

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(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG:** Alt 1 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (124)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	08:00-08:14/14	07:17	15:46-16:27/41	06:36		06:39	07:01-07:25/24	05:48	18:50-19:26/36	05:14	
	16:26	15:19-15:46/27	17:04	16:26-16:28/2	17:44		19:24	17:49-18:09/20	20:00		20:35	
2	07:35	08:00-08:15/15	07:16	15:47-16:28/41	06:34		06:37	07:00-07:25/25	05:46	18:49-19:25/36	05:14	
	16:27	15:20-15:46/26	17:06	16:27-16:30/3	17:45		19:25	17:53-18:05/12	20:01		20:36	
3	07:35	08:00-08:16/16	07:15	15:48-16:28/40	06:33	16:59-17:14/15	06:35	07:00-07:26/26	05:45	18:50-19:25/35	05:13	
	16:28	15:20-15:47/27	17:07	16:27-16:32/5	17:46		19:26		20:03		20:36	
4	07:35	08:00-08:17/17	07:14	15:49-16:29/40	06:31	16:55-17:17/22	06:34	06:59-07:26/27	05:43	18:50-19:24/34	05:13	
	16:29	15:20-15:46/26	17:08	16:28-16:34/6	17:48		19:28		20:04		20:37	
5	07:35	07:59-08:17/18	07:13	15:49-16:28/39	06:29	16:53-17:20/27	06:32	06:59-07:26/27	05:42	18:51-19:24/33	05:12	
	16:30	15:21-15:47/26	17:10	16:27-16:34/7	17:49		19:29		20:05		20:38	
6	07:35	07:59-08:18/19	07:11	15:50-16:29/39	06:27	16:50-17:22/32	06:30	06:59-07:25/26	05:40	18:52-19:23/31	05:12	
	16:31	15:21-15:47/26	17:11	16:28-16:36/8	17:50		19:30		20:06		20:39	
7	07:35	07:59-08:19/20	07:10	15:52-16:29/37	06:25	16:48-17:23/35	06:28	06:58-07:24/26	05:39	18:52-19:22/30	05:11	
	16:32	15:22-15:48/26	17:13	16:28-16:37/9	17:52		19:31		20:08		20:39	
8	07:34	07:59-08:20/21	07:09	15:52-16:28/36	07:24	17:47-18:24/37	06:26	06:59-07:23/24	05:38	18:53-19:21/28	05:11	
	16:33	15:22-15:48/26	17:14	16:27-16:37/10	18:53		19:33		20:09		20:40	
9	07:34	07:58-08:20/22	07:07	15:52-16:28/36	07:22	17:45-18:25/40	06:24	07:00-07:23/23	05:36	18:54-19:20/26	05:11	
	16:34	15:23-15:48/25	17:16	16:27-16:37/10	18:54		19:34		20:10		20:41	
10	07:34	07:58-08:21/23	07:06	15:52-16:27/35	07:20	17:44-18:26/42	06:23	07:00-07:21/21	05:35	18:56-19:19/23	05:11	
	16:35	15:24-15:49/25	17:17	16:26-16:37/11	18:56		19:35		20:11		20:42	
11	07:34	07:58-08:21/23	07:05	15:53-16:27/34	07:18	17:43-18:27/44	06:21	07:01-07:19/18	05:34	18:57-19:18/21	05:10	
	16:36	15:24-15:48/24	17:18	16:26-16:38/12	18:57		19:36		20:12		20:42	
12	07:33	07:59-08:22/23	07:03	15:53-16:27/34	07:16	17:42-18:28/46	06:19	07:03-07:17/14	05:33	18:58-19:15/17	05:10	
	16:37	15:25-15:49/24	17:20	16:26-16:38/12	18:58		19:38		20:14		20:43	
13	07:33	07:58-08:22/24 15:52-16:01/9	07:02	15:53-16:25/32	07:15	17:41-18:28/47	06:17	07:06-07:14/8	05:31	19:01-19:13/12	05:10	
	16:39	15:26-15:48/22	17:21	16:24-16:38/14	18:59		19:39		20:15		20:43	
14	07:32	07:59-08:24/25 15:51-16:04/13	07:00	15:54-16:24/30	07:13	17:40-18:28/48	06:15		05:30		05:10	
	16:40	15:27-15:49/22	17:23	16:23-16:38/15	19:01		19:40		20:16		20:44	
15	07:32	07:59-08:24/25 15:49-16:06/17	06:59	15:54-16:21/27	07:11	17:40-18:28/48	06:14	19:04-19:18/14	05:29		05:10	
	16:41	15:28-15:48/20	17:24	16:20-16:37/17	19:02		19:41		20:17		20:44	
16	07:31	08:00-08:25/25 15:49-16:08/19	06:57	15:54-16:16/22	07:09	17:39-18:28/49	06:12	19:01-19:19/18	05:28		05:10	
	16:42	15:30-15:48/18	17:26	16:15-16:36/21	19:03		19:43		20:18		20:45	
17	07:31	08:00-08:25/25 15:48-16:10/22	06:56	15:55-16:31/36	07:07	17:39-18:27/48	06:10	18:59-19:21/22	05:27		05:10	
	16:44	15:31-15:47/16	17:27	16:31-16:36/5	19:05		19:44		20:19		20:45	
18	07:30	08:00-08:25/25 15:47-16:11/24	06:54	15:56-16:30/34	07:05	17:38-18:27/49	06:09	18:57-19:21/24	05:26		05:10	
	16:45	15:32-15:46/14	17:28	16:30-16:34/4	19:06		19:45		20:20		20:46	
19	07:29	08:00-08:25/25 15:46-16:10/24	06:53	15:58-16:29/31	07:03	17:39-18:28/49	06:07	18:55-19:22/27	05:25		05:10	
	16:46	15:33-15:45/12 16:09-16:12/3	17:30	16:29-16:33/4	19:07		19:46		20:22		20:46	
20	07:29	08:01-08:26/25 15:47-16:13/26	06:51	15:59-16:28/29	07:02	17:39-18:27/48	06:05	18:54-19:24/30	05:24		05:10	
	16:48	15:37-15:44/7 16:13-16:14/1	17:31	16:28-16:31/3	19:09		19:48		20:23		20:46	
21	07:28	08:02-08:26/24	06:49	16:00-16:26/26	07:00	17:39-18:26/47	06:03	18:53-19:25/32	05:23		05:10	
	16:49	15:46-16:14/28	17:33	16:26-16:28/2	19:10		19:49		20:24		20:46	
22	07:27	08:02-08:25/23	06:48	16:03-16:23/20	06:58	17:39-18:26/47	06:02	18:52-19:26/34	05:22		05:11	
	16:50	15:46-16:15/29	17:34		19:11		19:50		20:25		20:47	
23	07:26	08:03-08:25/22	06:46	16:05-16:20/15	06:56	17:39-18:25/46	06:00	18:51-19:27/36	05:21		05:11	
	16:52	15:46-16:16/30	17:35		19:12		19:51		20:26		20:47	
24	07:25	08:03-08:25/22 16:15-16:17/2	06:45		06:54	17:39-18:24/45	05:59	18:50-19:27/37	05:20		05:11	
	16:53	15:45-16:16/31	17:37		19:14		19:53		20:27		20:47	
25	07:25	08:04-08:24/20	06:43		06:52	17:39-18:22/43	05:57	18:50-19:28/38	05:19		05:11	
	16:54	15:45-16:18/33	17:38		19:15		19:54		20:28		20:47	
26	07:24	08:06-08:24/18	06:41		06:50	17:40-18:21/41	05:55	18:50-19:27/37	05:18		05:12	
	16:56	15:45-16:19/34	17:39		19:16		19:55		20:29		20:47	
27	07:23	08:07-08:23/16	06:39		06:48	07:13-07:18/5	05:54	18:50-19:28/38	05:18		05:12	
	16:57	15:45-16:21/36	17:41		19:17	17:42-18:21/39	19:56		20:30		20:47	
28	07:22	08:09-08:21/12	06:38		06:47	07:08-07:22/14	05:52	18:49-19:27/38	05:17		05:13	
	16:58	15:45-16:23/38	17:42		19:19	17:43-18:19/36	19:58		20:31		20:47	
29	07:21	08:12-08:19/7			06:45	07:06-07:23/17	05:51	18:50-19:27/37	05:16		05:13	
	17:00	15:46-16:24/38			19:20	17:44-18:17/33	19:59		20:32		20:47	
30	07:20	15:46-16:25/39			06:43	07:04-07:24/20	05:49	18:49-19:26/37	05:15		05:13	
	17:01	16:25-16:26/1			19:21	17:45-18:15/30	20:00		20:33		20:47	
31	07:19	15:47-16:26/39			06:41	07:02-07:25/23			05:15			
	17:03	16:26-16:27/1			19:22	17:47-18:13/26			20:34			
Potential sun hours	286		291		369		404		459		466	
Sum of minutes with flicker	1568		919		1238		820		362		0	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 72

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG:** Alt 1 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (124)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

July		August		September		October		November		December	
1	05:14 20:47	05:42 20:25	19:08-19:26/18	06:18 19:35	07:00-07:18/18	06:54 18:39	17:21-18:07/46	06:34 16:46	15:22-15:57/35	07:14 16:17	07:40-08:03/23
2	05:15 20:47	05:43 20:24	19:06-19:28/22	06:19 19:33	06:58-07:19/21	06:55 18:37	17:21-18:05/44	06:36 16:45	15:22-15:58/36	07:15 16:17	07:41-08:04/23
3	05:15 20:47	05:44 20:23	19:05-19:29/24	06:20 19:32	06:57-07:20/23	06:56 18:35	17:22-18:05/43	06:37 16:44	15:22-15:58/36	07:16 16:17	07:42-08:04/22
4	05:16 20:47	05:45 20:22	19:04-19:31/27	06:22 19:30	06:57-07:21/24	06:58 18:33	17:22-18:03/41	06:38 16:42	15:22-15:59/37	07:17 16:16	07:43-08:04/21
5	05:16 20:46	05:46 20:20	19:03-19:32/29	06:23 19:28	06:56-07:21/25	06:59 18:31	17:23-18:02/39	06:40 16:41	15:20-15:59/39	07:18 16:16	07:44-08:04/20
6	05:17 20:46	05:47 20:19	19:02-19:33/31	06:24 19:26	06:55-07:21/26	07:00 18:30	17:23-18:00/37	06:41 16:40	15:20-15:59/39	07:19 16:16	07:45-08:04/19
7	05:18 20:46	05:48 20:18	19:01-19:33/32	06:25 19:24	06:54-07:21/27	07:01 18:28	17:25-17:59/34	06:42 16:38	15:19-15:59/40	07:20 16:16	07:46-08:04/18
8	05:18 20:45	05:50 20:16	19:00-19:34/34	06:26 19:22	06:54-07:20/26	07:03 18:26	17:27-17:56/29	06:44 16:37	15:18-15:58/40	07:21 16:16	07:47-08:04/17
9	05:19 20:45	05:51 20:15	18:59-19:34/35	06:28 19:20	06:53-07:20/27	07:04 18:24	17:28-17:54/26	06:45 16:36	15:18-15:58/40	07:22 16:16	07:48-08:04/16
10	05:20 20:45	05:52 20:13	18:58-19:34/36	06:29 19:19	06:53-07:19/26	07:05 18:22	17:32-17:51/19	06:47 16:35	15:17-15:58/41	07:23 16:16	07:49-08:04/15
11	05:21 20:44	05:53 20:12	18:58-19:34/36	06:30 19:17	06:54-07:19/25	07:06 18:21	17:36-17:46/10	06:48 16:33	15:18-15:57/39	07:24 16:16	07:50-08:04/14
12	05:22 20:43	05:54 20:10	18:57-19:34/37	06:31 19:15	06:54-07:17/23	07:08 18:19		06:49 16:32	15:17-15:56/39	07:25 16:16	07:51-08:04/13
13	05:22 20:43	05:56 20:09	18:58-19:35/37	06:32 19:13	06:55-07:16/21	07:09 18:17		06:51 16:31	07:43-07:51/8	07:26 16:16	07:52-08:04/12
14	05:23 20:42	05:57 20:07	18:57-19:35/38	06:33 19:11	06:56-07:14/18	07:10 18:15		06:52 16:30	07:41-07:53/12	07:27 16:16	07:53-08:04/11
15	05:24 20:42	05:58 20:06	18:57-19:35/38	06:35 19:09	06:57-07:11/14	07:12 18:13		06:53 16:29	07:40-07:56/16	07:27 16:16	07:53-08:04/11
16	05:25 20:41	05:59 20:04	18:57-19:34/37	06:36 19:07	07:00-07:07/7	07:13 18:12		06:55 16:28	07:39-07:57/18	07:28 16:16	07:54-08:04/10
17	05:26 20:40	06:00 20:03	18:56-19:34/38	06:37 19:05	17:28-18:09/41	07:14 18:10		06:56 16:27	07:38-07:58/20	07:29 16:17	07:55-08:04/9
18	05:27 20:39	06:01 20:01	18:56-19:33/37	06:38 19:03	17:28-18:11/43	07:15 18:08	16:39-16:48/9	06:57 16:26	07:37-07:59/22 15:49-15:51/2	07:30 16:17	07:55-08:04/9
19	05:28 20:39	06:03 19:58	18:56-19:32/36	06:39 19:02	17:27-18:11/44	07:17 18:07	16:36-16:53/17	06:59 16:25	07:38-08:00/22 15:20-15:50/30	07:30 16:17	07:56-08:05/9
20	05:29 20:38	06:04 19:56	18:56-19:32/36	06:41 19:00	17:25-18:11/46	07:18 18:05	16:32-16:54/22	07:00 16:24	07:37-08:00/23 15:21-15:50/29	07:31 16:18	07:57-08:05/8
21	05:30 20:37	06:05 19:55	18:57-19:31/34	06:42 18:58	17:24-18:11/47	07:19 18:03	16:30-16:57/27	07:01 16:24	07:37-08:01/24 15:21-15:49/28	07:31 16:18	07:57-08:05/8
22	05:31 20:36	06:06 19:53	18:58-19:29/31	06:43 18:56	17:23-18:11/48	07:21 18:02	16:29-16:59/30	07:03 16:23	07:37-08:02/25 15:23-15:49/26 15:13-15:19/6 15:49-15:50/1	07:32 16:19	07:58-08:06/8
23	05:32 20:35	06:07 19:51	18:58-19:28/30	06:44 18:54	17:22-18:10/48	07:22 18:00	16:27-16:59/32	07:04 16:22	07:37-08:02/25 15:23-15:47/24 15:10-15:22/12 15:46-15:49/3	07:32 16:19	07:58-08:06/8
24	05:33 20:34	06:09 19:49	18:59-19:26/27	06:45 18:52	17:22-18:11/49	07:23 17:58	16:26-17:01/35	07:05 16:21	07:37-08:02/25 15:24-15:48/24 15:09-15:23/14	07:33 16:20	07:58-08:06/8
25	05:34 20:33	06:10 19:48	19:00-19:24/24	06:47 18:50	17:22-18:11/49	07:25 17:57	16:25-17:01/36	07:06 16:21	07:38-08:03/25 15:26-15:48/22 15:09-15:25/16	07:33 16:20	07:59-08:08/9
26	05:35 20:32	06:11 19:46	19:01-19:22/21	06:48 18:48	17:21-18:10/49	07:26 17:55	16:24-16:48/24	07:08 16:20	07:38-08:03/25 15:27-15:46/19 15:08-15:26/18	07:34 16:21	07:59-08:08/9
27	05:36 20:31	06:12 19:44	19:03-19:20/17	06:49 18:46	17:21-18:09/48	07:27 17:54	16:23-16:51/28	07:09 16:19	07:38-08:03/25 15:28-15:45/17 15:07-15:27/20	07:34 16:22	07:59-08:09/10
28	05:37 20:30	06:13 19:42	19:06-19:19/13	06:50 18:44	17:20-18:09/49	07:29 17:52	16:22-16:53/31	07:10 16:19	07:39-08:04/25 15:31-15:44/13 15:07-15:29/22	07:34 16:22	07:59-08:09/10
29	05:38 20:29	06:15 19:41		06:51 18:43	17:21-18:09/48	07:30 17:51	16:23-16:55/32	07:11 16:18	07:39-08:04/25 15:33-15:42/9 15:07-15:29/22	07:34 16:23	08:00-08:11/11
30	05:39 20:28	06:16 19:39	19:14-19:21/7	06:53 18:41	07:06-07:14/8	07:31 17:49	16:22-16:55/33	07:13 16:18	07:40-08:03/23 15:37-15:38/1 15:07-15:30/23	07:35 16:24	08:00-08:12/12
31	05:40 20:27	06:17 19:37	19:10-19:24/14	07:03-07:17/14		07:33 17:48	16:22-16:57/35			07:35 16:25	08:00-08:13/13
	Potential sun hours Sum of minutes with flicker	472 21	436 877	376 1198	341 859	288 1519		274 1218			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

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Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG:** Alt 2 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (125)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	07:35 08:06-08:34/28 14:16-15:18/62	07:17 07:52-08:51/59 09:22-10:11/49	06:36 07:01-07:28/27	06:39	05:48	05:15
	16:26 08:48-10:21/93	17:04 08:51-08:53/2 14:32-15:22/50	17:44 07:28-07:47/19	19:24	20:00	20:35
2	07:35 08:06-08:35/29 14:16-15:18/62	07:16 07:51-08:50/59 09:24-10:09/45	06:34 07:01-07:27/26	06:37	05:46	05:14
	16:27 08:49-10:21/92	17:06 08:50-08:54/4 14:33-15:22/49	17:45 07:27-07:46/19	19:25	20:01	20:35
3	07:35 08:06-08:36/30 14:16-15:19/63	07:15 07:51-08:50/59 09:26-10:08/42	06:33 07:01-07:27/26	06:36	05:45	05:13
	16:28 08:49-10:21/92	17:07 08:50-08:54/4 14:35-15:21/46	17:46 07:27-07:45/18	19:26	20:03	20:36
4	07:35 08:06-08:36/30 14:16-15:18/62	07:14 07:51-08:50/59 09:28-10:06/38	06:31 07:01-07:26/25	06:34	05:43	05:13
	16:29 08:49-10:19/90	17:09 08:50-08:54/4 14:37-15:20/43	17:48 07:26-07:43/17	19:28	20:04	20:37
5	07:35 08:06-08:37/31 14:16-15:19/63	07:13 07:50-08:48/58 09:30-10:03/33	06:29 07:02-07:25/23	06:32	05:42	05:13
	16:30 08:50-10:19/89	17:10 08:48-08:54/6 14:38-15:18/40	17:49 07:25-07:41/16	19:29	20:05	20:38
6	07:35 08:06-08:38/32 14:17-15:20/63	07:11 07:51-08:47/56 09:33-10:00/27	06:27 07:03-07:24/21	06:30	05:41	05:12
	16:31 08:50-10:18/88	17:12 08:47-08:54/7 14:40-15:17/37	17:50 07:24-07:39/15	19:30	20:06	20:39
7	07:35 08:06-08:40/34 14:18-15:21/63	07:10 07:51-08:47/56 09:37-09:57/20	06:26 07:04-07:21/17	06:28	05:39	05:12
	16:32 08:51-10:18/87	17:13 08:47-08:54/7 14:43-15:16/33	17:52 07:26-07:34/8	19:31	20:08	20:39
8	07:34 08:05-08:40/35 14:17-15:20/63	07:09 07:50-08:44/54 14:44-15:13/29	07:24 08:06-08:18/12	06:26	05:38	05:11
	16:33 08:51-10:17/86	17:14 08:44-08:53/9	18:53	19:33	20:09	20:40
9	07:34 08:06-08:41/35 14:18-15:21/63	07:07 07:51-08:43/52 14:48-15:11/23	07:22	06:25	05:37	05:11
	16:34 08:52-10:18/86	17:16 08:43-08:53/10	18:54	19:34	20:10	20:41
10	07:34 08:06-08:42/36 14:19-15:22/63	07:06 07:50-08:41/51 14:52-15:07/15	07:20	06:23	05:35	05:11
	16:35 08:53-10:19/86	17:17 08:41-08:52/11	18:56	19:35	20:11	20:41
11	07:34 08:05-08:42/37 14:19-15:22/63	07:05 07:51-08:37/46	07:18	06:21	05:34	05:11
	16:37 08:53-10:18/85	17:19 08:36-08:52/16	18:57	19:36	20:12	20:42
12	07:33 08:06-08:44/38 14:19-15:23/64	07:03 07:30-07:37/7	07:16	06:19	05:33	05:10
	16:38 08:54-10:19/85	17:20 07:51-08:52/61	18:58	19:38	20:14	20:43
13	07:33 08:05-08:44/39 14:19-15:23/64	07:02 07:26-07:41/15	07:15	06:17	05:32	05:10
	16:39 08:54-10:19/85	17:21 07:51-08:51/60	19:00	19:39	20:15	20:43
14	07:32 08:06-08:45/39 14:20-15:24/64	07:00 07:24-07:43/19	07:13	06:16	05:30	05:10
	16:40 08:56-10:19/83	17:23 07:52-08:50/58	19:01	19:40	20:16	20:44
15	07:32 08:05-08:46/41 14:20-15:24/64	06:59 07:21-07:45/24	07:11	06:14	05:29	05:10
	16:41 08:56-10:19/83	17:24 07:52-08:49/57	19:02	19:41	20:17	20:44
16	07:31 08:06-08:47/41 14:20-15:24/64	06:57 07:21-07:47/26	07:09	06:12	05:28	05:10
	16:43 08:57-10:20/83	17:26 07:52-08:47/55	19:03	19:43	20:18	20:45
17	07:31 08:06-08:47/41 14:21-15:24/63	06:56 07:19-07:47/28	07:07	06:10	05:27	05:10
	16:44 08:58-10:20/82	17:27 07:53-08:46/53	19:05	19:44	20:19	20:45
18	07:30 08:05-08:48/43 14:22-15:24/62	06:54 07:18-07:48/30	07:05	06:09	05:26	05:10
	16:45 08:58-10:19/81	17:29 07:53-08:44/51	19:06	19:45	20:20	20:45
19	07:29 08:04-08:48/44 14:22-15:24/62	06:53 07:17-07:49/32	07:04	06:07	05:25	05:10
	16:46 08:59-10:19/80	17:30 07:55-08:42/47	19:07	19:46	20:22	20:46
20	07:29 08:05-08:49/44 14:23-15:25/62	06:51 07:12-07:20/8 07:55-08:39/44	07:02	06:05	05:24	05:10
	16:48 09:01-10:20/79	17:31 07:20-07:49/29	19:09	19:48	20:23	20:46
21	07:28 08:02-08:49/47 14:24-15:25/61	06:50 07:10-07:22/12 07:56-08:36/40	07:00	06:04	05:23	05:11
	16:49 09:01-10:19/78	17:33 07:22-07:49/27	19:10	19:49	20:24	20:46
22	07:27 08:01-08:50/49 14:24-15:25/61	06:48 07:09-07:25/16 07:58-08:30/32	06:58	06:02	05:22	05:11
	16:50 09:02-10:19/77	17:34 07:25-07:50/25	19:11	19:50	20:25	20:47
23	07:26 07:59-08:50/51 14:25-15:25/60	06:46 07:07-07:26/19 07:59-08:28/29	06:56	06:00	05:21	05:11
	16:52 09:03-10:18/75	17:35 07:26-07:50/24	19:12	19:51	20:26	20:47
24	07:25 07:58-08:50/52 14:25-15:25/60	06:45 07:05-07:26/21 08:01-08:25/24	06:54	05:59	05:20	05:11
	16:53 09:05-10:18/73	17:37 07:26-07:49/23	19:14	19:53	20:27	20:47
25	07:25 07:57-08:50/53 14:26-15:25/59	06:43 07:04-07:28/24 08:04-08:23/19	06:52	05:57	05:19	05:12
	16:55 09:06-10:17/71	17:38 07:28-07:50/22	19:15	19:54	20:28	20:47
26	07:24 07:56-08:51/55 14:27-15:25/58	06:41 07:02-07:28/26 08:09-08:18/9	06:50	05:56	05:19	05:12
	16:56 09:07-10:17/70	17:40 07:28-07:49/21	19:16	19:55	20:29	20:47
27	07:23 07:55-08:51/56 14:27-15:25/58	06:40 07:01-07:28/27	06:49	05:54	05:18	05:12
	16:57 09:09-10:16/67	17:41 07:28-07:48/20	19:18	19:56	20:30	20:47
28	07:22 07:54-08:52/58 14:28-15:24/56	06:38 07:01-07:28/27	06:47	05:52	05:17	05:13
	16:59 09:11-10:16/65	17:42 07:28-07:49/21	19:19	19:58	20:31	20:47
29	07:21 07:54-08:52/58 14:29-15:24/55		06:45	05:51	05:16	05:13
	17:00 09:14-10:15/61		19:20	19:59	20:32	20:47
30	07:20 07:53-08:52/59 09:17-10:14/57		06:43	05:49	05:16	05:14
	17:02 08:52-08:53/1 14:30-15:24/54		19:21	20:00	20:33	20:47
31	07:19 07:53-08:52/59 09:22-10:13/51		06:41		05:15	
	17:03 08:52-08:54/2 14:32-15:24/52		19:23		20:34	
Potential sun hours	286	291	369	404	459	466
Sum of minutes with flicker	5680	2520	289	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 74

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG:** Alt 2 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (125)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 20:47	05:42 20:25	06:18 19:35	06:54 18:39	06:34 07:20-08:10/50 14:21-14:37/16 16:47 08:10-08:22/12	07:14 07:47-08:24/37 14:01-15:04/63 16:18 08:35-10:00/85
2	05:15 20:47	05:43 20:24	06:19 19:34	06:55 18:37	06:36 07:20-08:13/53 14:17-14:41/24 16:45 08:13-08:23/10	07:15 07:49-08:25/36 14:01-15:04/63 16:17 08:35-10:01/86
3	05:15 20:47	05:44 20:23	06:21 19:32	06:57 18:35	06:37 07:20-08:14/54 09:12-09:20/8 16:44 08:14-08:23/9 14:14-14:44/30	07:16 07:50-08:25/35 14:02-15:05/63 16:17 08:36-10:02/86
4	05:16 20:47	05:45 20:22	06:22 19:30	06:58 18:33	06:38 07:21-08:17/56 09:06-09:27/21 16:42 08:17-08:24/7 14:12-14:46/34	07:17 07:50-08:25/35 14:02-15:05/63 16:17 08:36-10:02/86
5	05:17 20:46	05:46 20:20	06:23 19:28	06:59 07:45-07:53/8 18:32	06:40 07:20-08:17/57 09:02-09:31/29 16:41 08:17-08:24/7 14:10-14:47/37	07:18 07:51-08:25/34 14:03-15:06/63 16:16 08:36-10:03/87
6	05:17 20:46	05:48 20:19	06:24 19:26	07:00 07:42-07:56/14 18:30	06:41 07:21-08:19/58 09:00-09:34/34 16:40 08:19-08:24/5 14:08-14:49/41	07:19 07:52-08:25/33 14:03-15:06/63 16:16 08:36-10:04/88
7	05:18 20:46	05:49 20:18	06:25 19:24	07:01 07:40-07:58/18 18:28 08:00-08:13/13	06:42 07:21-08:20/59 08:58-09:36/38 16:38 08:20-08:24/4 14:06-14:50/44	07:20 07:53-08:24/31 14:03-15:06/63 16:16 08:37-10:06/89
8	05:19 20:45	05:50 20:16	06:27 19:22	07:03 07:38-07:59/21 18:26 07:59-08:15/16	06:44 07:21-08:20/59 08:56-09:38/42 16:37 08:20-08:24/4 14:05-14:51/46	07:21 07:54-08:24/30 14:04-15:06/62 16:16 08:37-10:07/90
9	05:19 20:45	05:51 20:15	06:28 19:21	07:04 07:36-08:00/24 18:24 08:00-08:17/17	06:45 07:22-08:21/59 08:55-09:40/45 16:36 08:21-08:24/3 14:04-14:53/49	07:22 07:54-08:24/30 14:04-15:07/63 16:16 08:37-10:09/92
10	05:20 20:44	05:52 20:13	06:29 19:19	07:05 07:36-08:01/25 18:22 08:01-08:19/18	06:47 07:23-08:22/59 08:53-09:42/49 16:35 08:22-08:24/2 14:03-14:53/50	07:23 07:55-08:24/29 14:05-15:07/62 16:16 08:38-10:10/92
11	05:21 20:44	05:53 20:12	06:30 19:17	07:07 07:35-08:01/26 18:21 08:01-08:19/18	06:48 07:24-08:23/59 08:53-09:44/51 16:34 08:23-08:24/1 14:02-14:54/52	07:24 07:56-08:24/28 14:06-15:08/62 16:16 08:38-10:11/93
12	05:22 20:43	05:55 20:10	06:31 19:15	07:08 07:34-08:01/27 18:19 08:01-08:20/19	06:49 07:24-08:23/59 08:48-09:45/57 16:32 08:23-08:24/1 14:01-14:55/54	07:25 07:57-08:25/28 14:06-15:08/62 16:16 08:39-10:12/93
13	05:23 20:43	05:56 20:09	06:32 19:13	07:09 07:34-08:01/27 18:17 08:01-08:21/20	06:51 07:26-08:24/58 14:01-14:56/55 16:31 08:46-09:47/61	07:26 07:58-08:25/27 14:07-15:09/62 16:16 08:39-10:13/94
14	05:24 20:42	05:57 20:07	06:34 19:11	07:10 07:34-08:01/27 18:15 08:01-08:21/20	06:52 07:26-08:24/58 14:00-14:56/56 16:30 08:43-09:47/64	07:27 07:58-08:24/26 14:07-15:08/61 16:16 08:39-10:13/94
15	05:24 20:42	05:58 20:06	06:35 19:09	07:12 07:33-08:00/27 18:14 08:00-08:21/21	06:53 07:28-08:24/56 14:00-14:58/58 16:29 08:42-09:49/67	07:27 07:59-08:24/25 14:07-15:09/62 16:16 08:40-10:14/94
16	05:25 20:41	05:59 20:04	06:36 19:07	07:13 07:35-08:00/25 08:39-08:52/13 18:12 08:00-08:22/22	06:55 07:29-08:24/55 13:59-14:58/59 16:28 08:40-09:50/70	07:28 08:00-08:25/25 14:08-15:10/62 16:17 08:40-10:15/95
17	05:26 20:40	06:00 20:03	06:37 19:05	07:14 07:36-07:59/23 08:35-08:56/21 18:10 07:59-08:21/22	06:56 07:31-08:24/53 14:00-14:59/59 16:27 08:40-09:51/71	07:29 08:01-08:25/24 14:09-15:10/61 16:17 08:41-10:16/95
18	05:27 20:39	06:02 20:01	06:38 19:04	07:15 07:37-07:58/21 08:31-08:58/27 18:08 07:58-08:21/23	06:57 07:32-08:24/52 13:59-14:59/60 16:26 08:39-09:52/73	07:30 08:02-08:25/23 14:09-15:10/61 16:17 08:41-10:16/95
19	05:28 20:39	06:03 20:00	06:40 19:02	07:17 07:39-07:57/18 08:30-09:00/30 18:07 07:57-08:21/24	06:59 07:33-08:24/51 13:59-14:59/60 16:25 08:37-09:52/75	07:30 08:03-08:26/23 14:10-15:11/61 16:18 08:42-10:17/95
20	05:29 20:38	06:04 19:56	06:41 19:00	07:18 07:40-07:55/15 08:28-09:03/35 18:05 07:55-08:21/26	07:00 07:36-08:25/49 13:59-15:00/61 16:25 08:37-09:54/77	07:31 08:03-08:25/22 14:10-15:11/61 16:18 08:42-10:17/95
21	05:30 20:37	06:05 19:55	06:42 18:58	07:19 07:42-07:53/11 08:26-09:07/41 18:03 07:53-08:21/28	07:01 07:37-08:24/47 13:59-15:00/61 16:24 08:37-09:54/77	07:31 08:04-08:26/22 14:11-15:12/61 16:18 08:42-10:18/96
22	05:31 20:36	06:06 19:53	06:43 18:56	07:21 07:43-07:48/5 08:25-09:11/46 18:02 07:48-08:20/32	07:03 07:41-08:25/44 13:59-15:01/62 16:23 08:37-09:56/79	07:32 08:04-08:26/22 14:11-15:12/61 16:19 08:42-10:18/96
23	05:32 20:35	06:08 19:51	06:44 18:54	07:22 07:47-08:18/31 18:00 08:24-09:13/49	07:04 07:41-08:25/44 13:59-15:01/62 16:22 08:36-09:56/80	07:32 08:05-08:27/22 14:12-15:13/61 16:19 08:44-10:19/95
24	05:33 20:34	06:09 19:49	06:46 18:52	07:23 07:48-08:18/30 17:59 08:24-09:15/51	07:05 07:42-08:25/43 13:59-15:01/62 16:22 08:35-09:56/81	07:33 08:05-08:28/23 14:12-15:13/61 16:20 08:44-10:19/95
25	05:34 20:33	06:10 19:48	06:47 18:50	07:25 07:49-08:17/28 17:57 08:22-09:16/54	07:06 07:44-08:25/41 14:00-15:03/63 16:21 08:36-09:58/82	07:33 08:06-08:29/23 14:13-15:14/61 16:21 08:45-10:20/95
26	05:35 20:32	06:11 19:46	06:48 18:48	07:26 07:50-08:16/26 17:55 08:22-09:18/56	07:08 07:44-08:25/41 13:59-15:03/64 16:20 08:35-09:58/83	07:34 08:05-08:29/24 14:13-15:14/61 16:21 08:45-10:20/95
27	05:36 20:31	06:12 19:44	06:49 18:46	07:27 07:51-08:14/23 17:54 08:21-09:19/58	07:09 07:44-08:25/41 13:59-15:03/64 16:20 08:35-09:58/83	07:34 08:05-08:30/25 14:13-15:14/61 16:22 08:45-10:20/95
28	05:37 20:30	06:14 19:42	06:50 18:45	07:29 07:53-08:12/19 17:52 08:20-09:19/59	07:10 07:46-08:25/39 14:00-15:04/64 16:19 08:36-09:59/83	07:34 08:05-08:30/25 14:13-15:15/62 16:23 08:45-10:20/95
29	05:39 20:29	06:15 19:41	06:52 18:43	07:30 07:56-08:10/14 17:51 08:21-09:20/59	07:11 07:46-08:25/39 14:00-15:04/64 16:19 08:35-10:00/85	07:34 08:05-08:31/26 14:13-15:15/62 16:23 08:46-10:20/94
30	05:40 20:28	06:16 19:39	06:53 18:41	07:31 08:01-08:04/3 17:49 08:20-09:21/61	07:13 07:47-08:25/38 14:00-15:04/64 16:18 08:35-10:00/85	07:35 08:06-08:33/27 14:15-15:17/62 16:24 08:47-10:21/94
31	05:41 20:27	06:17 19:37		07:33 08:20-09:08/48 17:48 09:07-09:22/15		07:35 08:06-08:33/27 14:15-15:17/62 16:25 08:48-10:21/93
Potential sun hours	472	436	376	341	288	275
Sum of minutes with flicker	0	0	0	1598	4921	5632

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 75

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdoc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG:** Alt 3 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (126)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	07:35	08:12-08:51/39	07:17	07:48-08:14/26	06:36	06:39			05:48	06:09-06:22/13	05:15	19:44-20:08/24
	16:26	08:51-08:56/5	17:04		17:44	19:24			20:00			20:35
2	07:35	08:12-08:51/39	07:16	07:49-08:14/25	06:34	06:37			05:46	06:08-06:23/15	05:14	19:43-20:09/26
	16:27	08:51-08:56/5	17:06		17:45	19:25			20:01			20:35
3	07:35	08:13-08:51/38	07:15	07:50-08:14/24	06:33	06:36			05:45	06:06-06:23/17	05:13	19:44-20:10/26
	16:28	08:51-08:56/5	17:07		17:46	19:26			20:03			20:36
4	07:35	08:13-08:50/37	07:14	07:51-08:13/22	06:31	06:34			05:43	06:05-06:24/19	05:13	19:45-20:11/26
	16:29	08:50-08:56/6	17:09		17:48	19:28			20:04			20:37
5	07:35	08:13-08:50/37	07:13	07:52-08:12/20	06:29	06:32			05:42	06:03-06:24/21	05:13	19:44-20:11/27
	16:30	08:50-08:56/6	17:10		17:49	19:29			20:05			20:38
6	07:35	08:14-08:50/36	07:11	07:53-08:11/18	06:27	06:30			05:41	06:02-06:25/23	05:12	19:45-20:12/27
	16:31	08:50-08:56/6	17:12		17:50	19:30			20:06			20:39
7	07:35	08:15-08:50/35	07:10	07:55-08:09/14	06:26	06:28			05:39	06:01-06:25/24	05:12	19:45-20:13/28
	16:32	08:50-08:57/7	17:13		17:52	19:31			20:08			20:39
8	07:34	08:15-08:49/34	07:09	07:58-08:06/8	07:24	06:26			05:38	06:00-06:25/25	05:11	19:45-20:13/28
	16:33	08:49-08:56/7	17:14		18:53	19:33			20:09			20:40
9	07:34	08:15-08:48/33	07:07		07:22	06:25			05:37	05:58-06:24/26	05:11	19:45-20:14/29
	16:34	08:48-08:56/8	17:16		18:54	19:34			20:10			20:41
10	07:34	08:16-08:48/32	07:06		07:20	06:23			05:35	05:58-06:25/27	05:11	19:46-20:15/29
	16:35	08:47-08:56/9	17:17		18:56	19:35			20:11			20:41
11	07:33	08:16-08:56/40	07:05		07:18	06:21			05:34	05:58-06:24/26	05:11	19:46-20:15/29
	16:37		17:19		18:57	19:36			20:12			20:42
12	07:33	08:18-08:56/38	07:03		07:16	06:19			05:33	05:59-06:24/25	05:10	19:46-20:16/30
	16:38		17:20		18:58	19:38			20:14			20:43
13	07:33	08:18-08:55/37	07:02		07:15	06:17			05:32	05:59-06:24/25	05:10	19:47-20:17/30
	16:39		17:21		19:00	19:39			20:15			20:43
14	07:32	08:19-08:55/36	07:00		07:13	06:16			05:30	05:59-06:23/24	05:10	19:46-20:16/30
	16:40		17:23		19:01	19:40			20:16			20:44
15	07:32	07:55-08:01/6	06:59		07:11	06:14			05:29	05:59-06:22/23	05:10	19:46-20:17/31
	16:41	08:20-08:54/34	17:24		19:02	19:41			20:17	19:51-19:52/1		20:44
16	07:31	07:55-08:04/9	06:57		07:09	06:12			05:28	06:00-06:22/22	05:10	19:47-20:17/30
	16:43	08:21-08:53/32	17:26		19:03	19:43			20:18	19:50-19:53/3		20:45
17	07:31	07:54-08:05/11	06:56		07:07	06:10			05:27	06:01-06:21/20	05:10	19:48-20:18/30
	16:44	08:22-08:52/30	17:27		19:05	19:44			20:19	19:48-19:54/6		20:45
18	07:30	07:53-08:06/13	06:54		07:05	06:09			05:26	06:02-06:20/18	05:10	19:48-20:18/30
	16:45	08:22-08:49/27	17:29		19:06	19:45			20:20	19:47-19:55/8		20:45
19	07:29	07:52-08:07/15	06:53		07:04	06:07			05:25	06:03-06:19/16	05:10	19:48-20:19/31
	16:46	08:23-08:47/24	17:30		19:07	19:46			20:22	19:46-19:56/10		20:46
20	07:29	07:52-08:09/17	06:51		07:02	06:05			05:24	06:04-06:18/14	05:10	19:48-20:19/31
	16:48	08:25-08:47/22	17:31		19:09	19:48			20:23	19:46-19:57/11		20:46
21	07:28	07:51-08:10/19	06:49		07:00	06:04			05:23	06:07-06:17/10	05:11	19:48-20:19/31
	16:49	08:27-08:46/19	17:33		19:10	19:49			20:24	19:46-19:59/13		20:46
22	07:27	07:50-08:11/21	06:48		06:58	06:02			05:22	06:09-06:14/5	05:11	19:48-20:19/31
	16:50	08:28-08:45/17	17:34		19:11	19:50			20:25	19:45-20:00/15		20:47
23	07:26	07:49-08:12/23	06:46		06:56	06:00			05:21	19:45-20:01/16	05:11	19:49-20:20/31
	16:52	08:30-08:43/13	17:35		19:12	19:51			20:26			20:47
24	07:25	07:48-08:12/24	06:45		06:54	05:59			05:20	19:44-20:01/17	05:11	19:49-20:20/31
	16:53	08:35-08:39/4	17:37		19:14	19:53			20:27			20:47
25	07:25	07:47-08:13/26	06:43		06:52	05:57			05:19	19:44-20:02/18	05:12	19:49-20:19/30
	16:55		17:38		19:15	19:54			20:28			20:47
26	07:24	07:47-08:13/26	06:41		06:50	05:56			05:19	19:44-20:04/20	05:12	19:50-20:20/30
	16:56		17:40		19:16	19:55			20:29			20:47
27	07:23	07:47-08:14/27	06:40		06:49	05:54			05:18	19:44-20:04/20	05:12	19:50-20:20/30
	16:57		17:41		19:17	19:56			20:30			20:47
28	07:22	07:47-08:14/27	06:38		06:47	05:52	06:13-06:16/3		05:17	19:43-20:05/22	05:13	19:49-20:19/30
	16:59		17:42		19:19	19:58			20:31			20:47
29	07:21	07:48-08:15/27			06:45	05:51	06:12-06:19/7		05:16	19:44-20:06/22	05:13	19:50-20:20/30
	17:00				19:20	19:59			20:32			20:47
30	07:20	07:48-08:15/27			06:43	05:49	06:10-06:20/10		05:16	19:44-20:07/23	05:14	19:50-20:19/29
	17:02				19:21	20:00			20:33			20:47
31	07:19	07:48-08:15/27			06:41				05:15	19:43-20:07/24		
	17:03				19:23				20:34			
Potential sun hours	286		292		369		404		459		466	
Sum of minutes with flicker	1142		157		0		20		687		875	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 76

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG:** Alt 3 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (126)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December	
1	05:14	19:50-20:20/30	05:42	06:09-06:35/26	06:18	06:54	06:34		07:14	07:59-08:38/39
	20:47		20:25		19:35	18:39	16:47		16:18	
2	05:15	19:50-20:19/29	05:43	06:09-06:35/26	06:19	06:55	06:36		07:15	08:00-08:31/31
	20:47		20:24		19:33	18:37	16:45		16:17	08:30-08:40/10
3	05:15	19:50-20:19/29	05:44	06:08-06:35/27	06:21	06:56	06:37	07:27-07:36/9	07:16	08:00-08:32/32
	20:47		20:23		19:32	18:35	16:44		16:17	08:32-08:40/8
4	05:16	19:51-20:19/28	05:45	06:09-06:35/26	06:22	06:58	06:38	07:25-07:40/15	07:17	08:00-08:34/34
	20:47		20:22		19:30	18:33	16:42		16:17	08:34-08:41/7
5	05:17	19:50-20:19/29	05:46	06:10-06:35/25	06:23	06:59	06:40	07:23-07:41/18	07:18	08:00-08:35/35
	20:46		20:20		19:28	18:32	16:41		16:16	08:35-08:42/7
6	05:17	19:51-20:19/28	05:48	06:11-06:34/23	06:24	07:00	06:41	07:22-07:43/21	07:19	08:00-08:36/36
	20:46		20:19		19:26	18:30	16:40		16:16	08:36-08:42/6
7	05:18	19:51-20:19/28	05:49	06:12-06:34/22	06:25	07:01	06:42	07:21-07:43/22	07:20	08:00-08:37/37
	20:46		20:18		19:24	18:28	16:38		16:16	08:37-08:43/6
8	05:19	19:51-20:18/27	05:50	06:13-06:33/20	06:27	07:03	06:44	07:21-07:45/24	07:21	08:01-08:38/37
	20:45		20:16		19:22	18:26	16:37		16:16	08:38-08:44/6
9	05:19	19:51-20:17/26	05:51	06:14-06:33/19	06:28	07:04	06:45	07:20-07:45/25	07:22	08:01-08:39/38
	20:45		20:15		19:21	18:24	16:36		16:16	08:39-08:44/5
10	05:20	19:52-20:17/25	05:52	06:15-06:32/17	06:29	07:05	06:47	07:19-07:45/26	07:23	08:02-08:40/38
	20:44		20:13		19:19	18:22	16:35		16:16	08:40-08:45/5
11	05:21	19:51-20:16/25	05:53	06:17-06:32/15	06:30	07:06	06:48	07:19-07:46/27	07:24	08:02-08:41/39
	20:44		20:12		19:17	18:21	16:34		16:16	08:41-08:46/5
12	05:22	19:51-20:16/25	05:55	06:18-06:30/12	06:31	07:08	06:49	07:19-07:46/27	07:25	08:03-08:42/39
	20:43		20:10		19:15	18:19	16:32		16:16	08:42-08:46/4
13	05:23	19:52-20:15/23	05:56	06:19-06:29/10	06:32	07:09	06:51	07:19-07:46/27	07:26	08:03-08:43/40
	20:43		20:09		19:13	18:17	16:31		16:16	08:43-08:47/4
14	05:24	19:52-20:15/23	05:57	06:20-06:26/6	06:34	07:10	06:52	07:19-07:46/27	07:27	08:03-08:43/40
	20:42		20:07		19:11	18:15	16:30		16:16	08:43-08:47/4
15	05:24	19:53-20:14/21	05:58	06:21-06:22/1	06:35	07:12	06:53	07:20-07:47/27	07:27	08:03-08:44/41
	20:42		20:06		19:09	18:14	16:29		16:16	08:44-08:48/4
16	05:25	19:53-20:14/21	05:59		06:36	07:13	06:55	07:20-07:46/26	07:28	08:04-08:44/40
	20:41		20:04		19:07	18:12	16:28		16:17	08:44-08:48/4
17	05:26	19:53-20:12/19	06:00		06:37	07:14	06:56	07:21-07:47/26	07:29	08:05-08:45/40
	20:40		20:03		19:05	18:10	16:27		16:17	08:45-08:49/4
18	05:27	19:53-20:12/19	06:02		06:38	07:15	06:57	07:22-07:46/24	07:30	08:05-08:45/40
	20:39		20:01		19:04	18:08	16:26	08:09-08:13/4	16:17	08:45-08:49/4
19	05:28	19:53-20:11/18	06:03		06:40	07:17	06:59	07:23-07:46/23	07:30	08:06-08:46/40
	20:39		19:58		19:02	18:07	16:25	08:04-08:17/13	16:18	08:46-08:50/4
20	05:29	19:54-20:10/16	06:04		06:41	07:18	07:00	07:25-07:46/21	07:31	08:06-08:46/40
	20:38		19:56		19:00	18:05	16:25	08:03-08:20/17	16:18	08:46-08:50/4
21	05:30	19:54-20:10/16	06:05		06:42	07:19	07:01	07:26-07:45/19	07:31	08:07-08:47/40
	20:37		19:55		18:58	18:03	16:24	08:02-08:21/19	16:18	08:47-08:51/4
22	05:31	06:17-06:25/8	06:06		06:43	07:21	07:03	07:28-07:45/17	07:32	08:07-08:47/40
	20:36	19:55-20:09/14	19:53		18:56	18:02	16:23	08:01-08:23/22	16:19	08:47-08:51/4
23	05:32	06:15-06:27/12	06:08		06:44	07:22	07:04	07:29-07:44/15	07:32	08:08-08:48/40
	20:35	19:56-20:08/12	19:51		18:54	18:00	16:22	08:00-08:24/24	16:19	08:48-08:52/4
24	05:33	06:14-06:29/15	06:09		06:46	07:23	07:05	07:30-07:43/13	07:33	08:08-08:48/40
	20:34	19:57-20:07/10	19:49		18:52	17:59	16:22	07:59-08:26/27	16:20	08:48-08:52/4
25	05:34	06:13-06:30/17	06:10		06:47	07:25	07:06	07:32-07:43/11	07:33	08:09-08:49/40
	20:33	19:57-20:06/9	19:48		18:50	17:57	16:21	08:00-08:30/30	16:21	08:49-08:53/4
26	05:35	06:12-06:31/19	06:11		06:48	07:26	07:08	07:33-07:42/9	07:34	08:09-08:49/40
	20:32	19:58-20:05/7	19:46		18:48	17:55	16:20	07:59-08:31/32	16:21	08:49-08:53/4
27	05:36	06:11-06:32/21	06:12		06:49	07:27	07:09	07:34-07:40/6	07:34	08:09-08:49/40
	20:31	19:59-20:04/5	19:44		18:46	17:54	16:20	07:59-08:33/34	16:22	08:49-08:53/4
28	05:37	06:10-06:32/22	06:14		06:50	07:29	07:10	07:59-08:35/36	07:34	08:09-08:50/41
	20:30	20:01-20:03/2	19:42		18:45	17:52	16:19		16:23	08:50-08:53/3
29	05:39	06:10-06:33/23	06:15		06:52	07:30	07:11	07:59-08:36/37	07:34	08:10-08:50/40
	20:29		19:41		18:43	17:51	16:19		16:23	08:50-08:54/4
30	05:40	06:09-06:33/24	06:16		06:53	07:31	07:13	07:59-08:37/38	07:35	08:11-08:51/40
	20:28		19:39		18:41	17:49	16:18		16:24	08:51-08:55/4
31	05:41	06:09-06:35/26	06:17			07:33			07:35	08:11-08:51/40
	20:27		19:37			17:48			16:25	08:51-08:55/4
Potential sun hours	472		436		376		341	288	275	
Sum of minutes with flicker	751		275		0		0	838	1340	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 77

Licensed user:

EDR

217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG:** Alt 4 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (127)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759	

Idle start wind speed: Cut in wind speed from power curve

	January		February		March	April		May		June	
1	07:35	08:04-08:27/23	07:17	06:36	06:39			05:48	18:55-19:36/41	05:14	05:38-06:21/43
	16:26		17:04	17:44	19:24			20:00		20:35	19:09-19:18/9
2	07:35	08:05-08:28/23	07:16	06:34	06:37			05:46	18:53-19:35/42	05:14	05:37-06:20/43
	16:27		17:06	17:45	19:25			20:01		20:35	
3	07:35	08:05-08:29/24	07:15	06:33	06:35			05:45	18:53-19:36/43	05:13	05:37-06:21/44
	16:28		17:07	17:46	19:26			20:03		20:36	
4	07:35	08:04-08:29/25	07:14	06:31	06:34			05:43	18:53-19:35/42	05:13	05:37-06:21/44
	16:29		17:09	17:48	19:28			20:04		20:37	
5	07:35	08:04-08:30/26	07:13	06:29	06:32			05:42	18:52-19:34/42	05:12	05:36-06:21/45
	16:30		17:10	17:49	19:29			20:05		20:38	
6	07:35	08:05-08:31/26	07:11	06:27	06:30			05:41	18:52-19:34/42	05:12	05:36-06:21/45
	16:31		17:11	17:50	19:30			20:06		20:39	
7	07:35	08:05-08:31/26	07:10	06:25	06:28			05:39	18:52-19:33/41	05:12	05:36-06:22/46
	16:32		17:13	17:52	19:31			20:07		20:39	
8	07:34	08:05-08:31/26	07:09	07:24	06:26			05:38	18:51-19:32/41	05:11	05:35-06:21/46
	16:33		17:14	18:53	19:33			20:09		20:40	
9	07:34	08:05-08:32/27	07:07	07:22	06:25			05:37	18:51-19:32/41	05:11	05:35-06:21/46
	16:34		17:16	18:54	19:34			20:10		20:41	
10	07:34	08:06-08:33/27	07:06	07:20	06:23			05:35	18:52-19:31/39	05:11	05:35-06:22/47
	16:35		17:17	18:56	19:35			20:11	19:31-19:33/2	20:41	
11	07:33	08:05-08:33/28	07:05	07:18	06:21			05:34	05:57-06:06/9	05:11	05:35-06:22/47
	16:36		17:19	18:57	19:36			20:12	18:52-19:33/41	20:42	
12	07:33	08:06-08:34/28	07:03	07:16	06:19	19:11-19:14/3		05:33	05:55-06:09/14	05:10	05:35-06:22/47
	16:38		17:20	18:58	19:38			20:13	18:52-19:33/41	20:43	
13	07:33	08:06-08:34/28	07:02	07:15	06:17	19:10-19:16/6		05:32	05:54-06:11/17	05:10	05:35-06:22/47
	16:39		17:21	19:00	19:39			20:15	18:52-19:32/40	20:43	
14	07:32	08:07-08:35/28	07:00	07:13	06:16	19:08-19:17/9		05:30	05:52-06:12/20	05:10	05:34-06:22/48
	16:40		17:23	19:01	19:40			20:16	18:52-19:31/39	20:44	
15	07:32	08:07-08:35/28	06:59	07:11	06:14	19:07-19:18/11		05:29	05:51-06:13/22	05:10	05:34-06:22/48
	16:41		17:24	19:02	19:41			20:17	18:52-19:31/39	20:44	
16	07:31	08:07-08:35/28	06:57	07:09	06:12	19:05-19:19/14		05:28	05:50-06:14/24	05:10	05:35-06:22/47
	16:43		17:26	19:03	19:43			20:18	18:53-19:31/38	20:45	
17	07:31	08:08-08:36/28	06:56	07:07	06:10	19:05-19:20/15		05:27	05:49-06:15/26	05:10	05:35-06:23/48
	16:44		17:27	19:05	19:44			20:19	18:53-19:31/38	20:45	
18	07:30	08:08-08:36/28	06:54	07:05	06:09	19:05-19:21/16		05:26	05:48-06:16/28	05:10	05:35-06:23/48
	16:45		17:29	19:06	19:45			20:20	18:54-19:30/36	20:45	
19	07:29	08:08-08:36/28	06:53	07:03	06:07	19:04-19:22/18		05:25	05:47-06:16/29	05:10	05:35-06:23/48
	16:46		17:30	19:07	19:46			20:21	18:54-19:30/36	20:46	
20	07:29	08:09-08:37/28	06:51	07:02	06:05	19:04-19:24/20		05:24	05:46-06:17/31	05:10	05:35-06:23/48
	16:48		17:31	19:09	19:48			20:23	18:55-19:29/34	20:46	
21	07:28	08:10-08:37/27	06:49	07:00	06:04	19:04-19:25/21		05:23	05:46-06:18/32	05:11	05:35-06:23/48
	16:49		17:33	19:10	19:49			20:24	18:55-19:28/33	20:46	
22	07:27	08:10-08:37/27	06:48	06:58	06:02	19:04-19:26/22		05:22	05:45-06:18/33	05:11	05:35-06:23/48
	16:50		17:34	19:11	19:50			20:25	18:57-19:29/32	20:47	
23	07:26	08:11-08:36/25	06:46	06:56	06:00	19:05-19:27/22		05:21	05:44-06:19/35	05:11	05:36-06:24/48
	16:52		17:35	19:12	19:51			20:26	18:58-19:28/30	20:47	
24	07:25	08:12-08:36/24	06:45	06:54	05:59	19:05-19:26/21		05:20	05:43-06:19/36	05:11	05:36-06:24/48
	16:53		17:37	19:14	19:53	19:26-19:28/2		20:27	18:58-19:27/29	20:47	
25	07:24	08:13-08:35/22	06:43	06:52	05:57	19:03-19:25/22		05:19	05:42-06:19/37	05:12	05:36-06:24/48
	16:55		17:38	19:15	19:54	19:25-19:30/5		20:28	18:59-19:26/27	20:47	
26	07:24	08:14-08:35/21	06:41	06:50	05:55	19:00-19:24/24		05:19	05:42-06:20/38	05:12	05:37-06:25/48
	16:56		17:40	19:16	19:55	19:23-19:31/8		20:29	19:01-19:26/25	20:47	
27	07:23	08:15-08:34/19	06:39	06:49	05:54	18:59-19:22/23		05:18	05:41-06:20/39	05:12	05:37-06:25/48
	16:57		17:41	19:17	19:56	19:21-19:32/11		20:30	19:01-19:25/24	20:47	
28	07:22	08:17-08:32/15	06:38	06:47	05:52	18:57-19:33/36		05:17	05:40-06:20/40	05:13	05:37-06:25/48
	16:59		17:42	19:19	19:58			20:31	19:02-19:24/22	20:47	
29	07:21	08:20-08:31/11		06:45	05:51	18:57-19:35/38		05:16	05:40-06:21/41	05:13	05:38-06:26/48
	17:00			19:20	19:59			20:32	19:04-19:23/19	20:47	
30	07:20			06:43	05:49	18:55-19:35/40		05:16	05:39-06:20/41	05:14	05:38-06:25/47
	17:01			19:21	20:00			20:33	19:05-19:22/17	20:47	
31	07:18			06:41				05:15	05:38-06:20/42		
	17:03			19:22				20:34	19:07-19:20/13		
Potential sun hours	286		292		369	404	459	466		1413	
Sum of minutes with flicker	724		0		0	406	1703	1413			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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8/28/2015 10:59 AM / 78

Licensed user:

EDR

217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG:** Alt 4 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (127)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December	
1	05:14	05:39-06:26/47	05:42	06:06-06:18/12	06:18	06:54	06:34		07:14	07:48-08:15/27
	20:47		20:25	19:02-19:42/40	19:35	18:39	16:46		16:18	
2	05:15	05:39-06:26/47	05:43	06:10-06:14/4	06:19	06:55	06:36		07:15	07:48-08:15/27
	20:47		20:24	19:02-19:43/41	19:33	18:37	16:45		16:17	
3	05:15	05:40-06:27/47	05:44	19:02-19:42/40	06:21	06:56	06:37		07:16	07:49-08:16/27
	20:47		20:23	19:42-19:43/1	19:32	18:35	16:44		16:17	
4	05:16	05:41-06:27/46	05:45	19:02-19:43/41	06:22	06:58	06:38		07:17	07:50-08:17/27
	20:47		20:22		19:30	18:33	16:42		16:17	
5	05:17	05:41-06:27/46	05:46	19:02-19:43/41	06:23	06:59	06:40		07:18	07:50-08:17/27
	20:46		20:20		19:28	18:32	16:41		16:16	
6	05:17	05:42-06:28/46	05:48	19:02-19:43/41	06:24	07:00	06:41		07:19	07:51-08:17/26
	20:46		20:19		19:26	18:30	16:40		16:16	
7	05:18	05:43-06:28/45	05:49	19:02-19:44/42	06:25	07:01	06:42		07:20	07:51-08:17/26
	20:46		20:18		19:24	18:28	16:38		16:16	
8	05:19	05:43-06:28/45	05:50	19:02-19:44/42	06:26	07:03	06:44		07:21	07:52-08:17/25
	20:45		20:16		19:22	18:26	16:37		16:16	
9	05:19	05:44-06:28/44	05:51	19:02-19:44/42	06:28	07:04	06:45		07:22	07:53-08:17/24
	20:45		20:15		19:21	18:24	16:36		16:16	
10	05:20	05:45-06:29/44	05:52	19:02-19:44/42	06:29	07:05	06:46		07:23	07:54-08:17/23
	20:44		20:13		19:19	18:22	16:35		16:16	
11	05:21	05:45-06:28/43	05:53	19:02-19:44/42	06:30	07:06	06:48		07:24	07:54-08:17/23
	20:44	19:18-19:24/6	20:12		19:17	18:21	16:34		16:16	
12	05:22	05:46-06:28/42	05:55	19:03-19:45/42	06:31	07:08	06:49	07:55-07:58/3	07:25	07:55-08:18/23
	20:43	19:16-19:27/11	20:10		19:15	18:19	16:32		16:16	
13	05:23	05:47-06:29/42	05:56	19:04-19:43/39	06:32	07:09	06:51	07:51-08:03/12	07:26	07:56-08:18/22
	20:43	19:14-19:29/15	20:09		19:13	18:17	16:31		16:16	
14	05:23	05:48-06:29/41	05:57	19:04-19:42/38	06:34	07:10	06:52	07:49-08:04/15	07:27	07:56-08:18/22
	20:42	19:13-19:31/18	20:07		19:11	18:15	16:30		16:16	
15	05:24	05:49-06:29/40	05:58	19:05-19:26/21	06:35	07:12	06:53	07:48-08:07/19	07:27	07:57-08:18/21
	20:42	19:12-19:32/20	20:06	19:25-19:40/15	19:09	18:14	16:29		16:16	
16	05:25	05:50-06:29/39	05:59	19:06-19:29/23	06:36	07:13	06:55	07:47-08:08/21	07:28	07:58-08:19/21
	20:41	19:11-19:34/23	20:04	19:28-19:39/11	19:07	18:12	16:28		16:17	
17	05:26	05:51-06:29/38	06:00	19:07-19:31/24	06:37	07:14	06:56	07:47-08:09/22	07:29	07:59-08:19/20
	20:40	19:10-19:34/24	20:03	19:30-19:37/7	19:05	18:10	16:27		16:17	
18	05:27	05:51-06:28/37	06:02	19:09-19:31/22	06:38	07:15	06:57	07:46-08:10/24	07:29	07:59-08:19/20
	20:39	19:09-19:35/26	20:01	19:31-19:35/4	19:04	18:08	16:26		16:17	
19	05:28	05:52-06:28/36	06:03	19:11-19:32/21	06:40	07:17	06:59	07:45-08:10/25	07:30	08:00-08:20/20
	20:39	19:08-19:36/28	19:58	19:32-19:34/2	19:02	18:07	16:25		16:17	
20	05:29	05:53-06:28/35	06:04	19:11-19:33/22	06:41	07:18	07:00	07:45-08:12/27	07:31	08:00-08:19/19
	20:38	19:07-19:37/30	19:56		19:00	18:05	16:25		16:18	
21	05:30	05:54-06:28/34	06:05	19:10-19:31/21	06:42	07:19	07:01	07:45-08:12/27	07:31	08:01-08:20/19
	20:37	19:07-19:38/31	19:54		18:58	18:03	16:24		16:18	
22	05:31	05:55-06:28/33	06:06	19:09-19:29/20	06:43	07:21	07:03	07:45-08:13/28	07:32	08:01-08:20/19
	20:36	19:06-19:39/33	19:53		18:56	18:02	16:23		16:19	
23	05:32	05:56-06:28/32	06:08	19:08-19:28/20	06:44	07:22	07:04	07:45-08:13/28	07:32	08:02-08:21/19
	20:35	19:06-19:39/33	19:51		18:54	18:00	16:22		16:19	
24	05:33	05:57-06:27/30	06:09	19:08-19:26/18	06:45	07:23	07:05	07:45-08:13/28	07:33	08:02-08:22/20
	20:34	19:05-19:40/35	19:49		18:52	17:59	16:22		16:20	
25	05:34	05:58-06:27/29	06:10	19:07-19:24/17	06:47	07:25	07:06	07:46-08:14/28	07:33	08:03-08:23/20
	20:33	19:05-19:40/35	19:48		18:50	17:57	16:21		16:21	
26	05:35	05:59-06:26/27	06:11	19:07-19:22/15	06:48	07:26	07:08	07:46-08:14/28	07:33	08:03-08:23/20
	20:32	19:04-19:41/37	19:46		18:48	17:55	16:20		16:21	
27	05:36	06:00-06:25/25	06:12	19:08-19:21/13	06:49	07:27	07:09	07:46-08:14/28	07:34	08:03-08:23/20
	20:31	19:04-19:41/37	19:44		18:46	17:54	16:20		16:22	
28	05:37	06:01-06:24/23	06:13	19:08-19:19/11	06:50	07:29	07:10	07:47-08:15/28	07:34	08:03-08:24/21
	20:30	19:03-19:42/39	19:42		18:45	17:52	16:19		16:23	
29	05:38	06:02-06:23/21	06:15	19:09-19:18/9	06:52	07:30	07:11	07:47-08:15/28	07:34	08:03-08:24/21
	20:29	19:03-19:42/39	19:41		18:43	17:51	16:19		16:23	
30	05:40	06:03-06:22/19	06:16	19:10-19:16/6	06:53	07:31	07:13	07:47-08:15/28	07:35	08:04-08:26/22
	20:28	19:02-19:42/40	19:39		18:41	17:49	16:18		16:24	
31	05:41	06:04-06:20/16	06:17	19:11-19:14/3		07:33			07:35	08:04-08:27/23
	20:27	19:02-19:42/40	19:37			17:48			16:25	
Potential sun hours	472		436		376		341	288	275	
Sum of minutes with flicker	1739		912		0		0	447	694	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

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Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG:** Alt 5 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (128)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

January		February		March		April		May		June	
1	07:35 15:27-15:40/13	07:17 16:15-16:38/23		06:36 06:57-07:07/10	07:36-08:41/65	06:39	05:48	05:14			
	16:26	17:04		17:44	07:06-07:33/27	19:24	20:00	20:35			
2	07:35 15:28-15:40/12	07:16 08:01-08:18/17		06:34	06:55-07:08/13	07:36-08:40/64	06:37	05:46	05:14		
	16:27	17:06 16:16-16:40/24		17:45	07:07-07:33/26	19:25	20:01	20:35			
3	07:35 15:28-15:39/11	07:15 07:57-08:22/25		06:33	06:53-07:08/15	07:36-08:40/64	06:36	05:45	05:13		
	16:28	17:07 16:17-16:41/24		17:46	07:07-07:31/24	19:26	20:03	20:36			
4	07:35 15:30-15:38/8	07:14 07:55-08:25/30		06:31	06:51-07:09/18	07:36-08:39/63	06:34	05:43	05:13		
	16:29	17:09 16:18-16:40/22		17:48	07:08-07:30/22	19:28	20:04	20:37			
5	07:35 15:32-15:37/5	07:13 07:52-08:27/35		06:29	06:50-07:10/20	07:37-08:38/61	06:32	05:42	05:12		
	16:30	17:10 16:18-16:39/21		17:49	07:09-07:30/21	19:29	20:05	20:38			
6	07:35	07:11 07:51-08:29/38		06:27	06:48-07:11/23	07:37-08:37/60	06:30	05:41	05:12		
	16:31	17:11 16:20-16:38/18		17:50	07:09-07:28/19	19:30	20:06	20:39			
7	07:35	07:10 07:50-08:31/41		06:26	06:46-07:09/23	07:38-08:36/58	06:28	05:39	05:12		
	16:32	17:13 16:21-16:38/17		17:52	07:08-07:25/17	19:31	20:07	20:39			
8	07:34	07:09 07:47-08:32/45		07:24	07:44-08:09/25	08:38-09:35/57	06:26	05:38	05:11		
	16:33	17:14 16:23-16:35/12		18:53	08:08-08:22/14	19:33	20:09	20:40			
9	07:34	07:07 07:47-08:34/47		07:22	07:42-08:08/26	08:38-09:33/55	06:25	05:37	05:11		
	16:34	17:16 16:26-16:33/7		18:54	08:07-08:16/9	19:34	20:10	20:41			
10	07:34	07:06 07:45-08:35/50		07:20	07:41-08:08/27	08:39-09:31/52	06:23	05:35	05:11		
	16:35	17:17		18:56	08:07-08:15/8	19:35	20:11	20:41			
11	07:33	07:05 07:44-08:36/52		07:18	07:39-08:06/27	08:41-09:30/49	06:21	05:34	05:11		
	16:36	17:19		18:57	08:05-08:14/9	19:36	20:12	20:42			
12	07:33	07:03 07:44-08:38/54		07:16	07:37-08:05/28	08:42-09:28/46	06:19	05:33	05:10		
	16:38	17:20		18:58	08:04-08:12/8	19:38	20:13	20:43			
13	07:33	07:02 07:42-08:38/56		07:15	07:35-08:02/27	08:43-09:26/43	06:17	05:32	05:10		
	16:39	17:21		19:00	08:01-08:11/10	19:39	20:15	20:43			
14	07:32	07:00 07:42-08:40/58		07:13	07:33-07:59/26	08:44-09:24/40	06:16	05:30	05:10		
	16:40	17:23		19:01	07:58-08:10/12	19:40	20:16	20:44			
15	07:32	06:59 07:41-08:40/59		07:11	07:31-07:58/27	08:46-09:21/35	06:14	05:29	05:10		
	16:41	17:24		19:02	07:58-08:09/11	19:41	20:17	20:44			
16	07:31	06:57 07:39-08:40/61		07:09	07:29-07:57/28	08:48-09:18/30	06:12	05:28	05:10		
	16:43	17:26		19:03	07:57-08:08/11	19:43	20:18	20:45			
17	07:31	06:56 07:17-07:25/8		07:07	07:28-07:56/28	08:51-09:14/23	06:10	05:27	05:10		
	16:44	17:27 07:39-08:41/62		19:05	07:56-08:07/11	19:44	20:19	20:45			
18	07:30	06:54 07:15-07:28/13		07:05	07:29-07:55/26	08:56-09:09/13	06:09	05:26	05:10		
	16:45	17:29 07:38-08:41/63		19:06	07:55-08:06/11	19:45	20:20	20:45			
19	07:29	06:53 07:14-07:30/16		07:03	07:29-07:54/25	06:07	05:25	05:10			
	16:46	17:30 07:38-08:42/64		19:07	07:54-08:04/10	19:46	20:22	20:46			
20	07:29 16:19-16:21/2	06:51 07:12-07:31/19		07:02	07:30-07:52/22	06:05	05:24	05:10			
	16:48	17:31 07:38-08:42/64		19:09	07:52-08:01/9	19:48	20:23	20:46			
21	07:28 16:18-16:22/4	06:49 07:10-07:32/22		07:00	07:31-07:48/17	06:04	05:23	05:11			
	16:49	17:33 07:37-08:42/65		19:10	07:49-07:57/8	19:49	20:24	20:46			
22	07:27 16:17-16:24/7	06:48 07:09-07:33/24		06:58	07:33-07:44/11	06:02	05:22	05:11			
	16:50	17:34 07:37-08:43/66		19:11		19:50	20:25	20:47			
23	07:26 16:16-16:25/9	06:46 07:07-07:33/26		06:56		06:00	05:21	05:11			
	16:52	17:35 07:36-08:43/67		19:12		19:51	20:26	20:47			
24	07:25 16:16-16:26/10	06:45 07:05-07:33/28		06:54		05:59	05:20	05:11			
	16:53	17:37 07:36-08:42/66		19:14		19:53	20:27	20:47			
25	07:25 16:15-16:28/13	06:43 07:04-07:34/30		06:52		05:57	05:19	05:12			
	16:55	17:38 07:36-08:43/67		19:15		19:54	20:28	20:47			
26	07:24 16:15-16:29/14	06:41 07:02-07:34/32		06:50		05:55	05:19	05:12			
	16:56	17:40 07:36-08:42/66		19:16		19:55	20:29	20:47			
27	07:23 16:15-16:31/16	06:40 07:00-07:34/34		06:49		05:54	05:18	05:12			
	16:57	17:41 07:36-08:42/66		19:17		19:56	20:30	20:47			
28	07:22 16:15-16:32/17	06:38 06:59-07:04/5	07:36-08:42/66	06:47		05:52	05:17	05:13			
	16:59	17:42 07:04-07:34/30		19:19		19:58	20:31	20:47			
29	07:21 16:15-16:34/19			06:45		05:51	05:16	05:13			
	17:00			19:20		19:59	20:32	20:47			
30	07:20 16:16-16:36/20			06:43		05:49	05:16	05:14			
	17:02			19:21		20:00	20:33	20:47			
31	07:18 16:16-16:37/21			06:41			05:15				
	17:03			19:23			20:34				
Potential sun hours	286	291		369		404	459	466			
Sum of minutes with flicker	201	1905		1653		0	0	0			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 80

Licensed user:

EDR217 Montgomery St.
US-SYRACUSE, NY 13202
(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG:** Alt 5 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (128)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 20:47	05:42 20:25	06:18 19:35	06:54 07:15-07:43/28 08:21-09:06/45 18:39 07:42-07:50/8	06:34 07:15-08:04/49 16:46	07:14 16:18
2	05:15 20:47	05:43 20:24	06:19 19:33	06:55 07:17-07:45/28 08:19-09:07/48 18:37 07:44-07:52/8	06:36 07:16-08:04/48 16:45 15:55-16:03/8	07:15 16:17
3	05:15 20:47	05:44 20:23	06:21 19:32	06:56 07:18-07:45/27 08:18-09:09/51 18:35 07:44-07:53/9	06:37 07:17-08:02/45 16:44 15:52-16:05/13	07:16 16:17
4	05:16 20:47	05:45 20:22	06:22 19:30	06:58 07:19-07:45/26 08:17-09:10/53 18:33 07:44-07:53/9	06:38 07:20-08:01/41 16:42 15:51-16:08/17	07:17 16:17
5	05:17 20:46	05:46 20:20	06:23 19:28	06:59 07:20-07:45/25 08:15-09:11/56 18:32 07:44-07:56/12	06:40 07:21-07:59/38 16:41 15:49-16:08/19	07:18 16:16
6	05:17 20:46	05:48 20:19	06:24 19:26	07:00 07:22-07:46/24 08:15-09:12/57 18:30 07:45-08:01/16	06:41 07:23-07:57/34 16:40 15:48-16:09/21	07:19 16:16
7	05:18 20:46	05:49 20:18	06:25 19:24	07:01 07:23-07:45/22 08:13-09:13/60 18:28 07:44-08:03/19	06:42 07:25-07:55/30 16:38 15:48-16:10/22	15:20-15:24/4 16:16
8	05:19 20:45	05:50 20:16	06:27 19:22	07:03 07:24-07:45/21 08:12-09:13/61 18:26 07:44-08:04/20	06:44 07:28-07:51/23 16:37 15:47-16:10/23	07:21 15:18-15:26/8 16:16
9	05:19 20:45	05:51 20:15	06:28 19:21	07:04 07:25-07:44/19 08:11-09:13/62 18:24 07:43-08:04/21	06:45 07:32-07:48/16 16:36 15:47-16:11/24	07:22 15:17-15:28/11 16:16
10	05:20 20:44	05:52 20:13	06:29 19:19	07:05 07:27-07:44/17 08:11-09:14/63 18:22 07:43-08:06/23	06:47 15:46-16:09/23 16:35	07:23 15:17-15:29/12 16:16
11	05:21 20:44	05:53 20:12	06:30 19:17	07:06 07:28-07:42/14 08:10-09:14/64 18:21 07:41-08:06/25	06:48 15:47-16:08/21 16:34	07:24 15:17-15:30/13 16:16
12	05:22 20:43	05:55 20:10	06:31 19:15	07:08 07:29-07:40/11 08:09-09:14/65 18:19 07:39-08:06/27	06:49 15:46-16:06/20 16:32	07:25 15:17-15:31/14 16:16
13	05:23 20:43	05:56 20:09	06:32 19:13	07:09 07:31-07:39/8 08:09-09:15/66 18:17 07:38-08:07/29	06:51 15:47-16:06/19 16:31	07:26 15:17-15:32/15 16:16
14	05:24 20:42	05:57 20:07	06:34 19:11	07:10 07:32-07:35/3 08:09-09:15/66 18:15 07:35-08:07/32	06:52 15:47-16:04/17 16:30	07:27 15:16-15:32/16 16:16
15	05:24 20:42	05:58 20:06	06:35 19:09	07:12 07:33-08:06/33 18:14 08:08-09:14/66	06:53 15:48-16:04/16 16:29	07:27 15:16-15:33/17 16:16
16	05:25 20:41	05:59 20:04	06:36 19:07	07:13 07:35-08:06/31 18:12 08:08-09:15/67	06:55 15:48-16:02/14 16:28	07:28 15:17-15:34/17 16:17
17	05:26 20:40	06:00 20:03	06:37 19:05	07:14 07:36-08:06/30 18:10 08:08-09:14/66	06:56 15:49-16:02/13 16:27	07:29 15:17-15:35/18 16:17
18	05:27 20:39	06:02 20:01	06:38 19:04	07:15 07:37-08:05/28 18:08 08:07-09:14/67	06:57 15:50-16:00/10 16:26	07:29 15:17-15:35/18 16:17
19	05:28 20:39	06:03 19:58	06:40 19:02	07:17 07:39-08:05/26 18:07 08:08-09:14/66	06:59 15:50-15:59/9 16:25	07:30 15:15-15:17/2 16:17
20	05:29 20:38	06:04 19:56	06:41 19:00	07:18 07:40-08:03/23 18:05 08:08-09:13/65	07:00 15:52-15:59/7 16:25	07:31 15:14-15:36/22 16:18
21	05:30 20:37	06:05 19:55	06:42 07:19-07:29/10 18:58	07:19 07:41-08:02/21 18:03 08:07-09:13/66	07:01 15:53-15:57/4 16:24	07:31 15:15-15:37/22 16:18
22	05:31 20:36	06:06 19:53	06:43 07:16-07:31/15 18:56 07:35-07:40/5	07:21 07:43-08:01/18 18:02 08:08-09:13/65	07:03 15:55-15:57/2 16:23	07:32 15:15-15:37/22 16:19
23	05:32 20:35	06:08 19:51	06:44 07:15-07:36/21 18:54 07:36-07:45/9	07:22 07:44-07:59/15 18:00 08:08-09:12/64	07:04 15:56-16:00/10 16:22	07:32 15:16-15:38/22 16:19
24	05:33 20:34	06:09 19:49	06:46 07:13-07:37/24 18:52 07:37-07:47/10	07:23 07:46-07:58/12 17:59 08:09-09:12/63	07:05 15:57-16:00/10 16:22	07:33 15:17-15:19/2 16:20
25	05:34 20:33	06:10 19:48	06:47 07:12-07:38/26 08:42-08:48/6 18:50 07:38-07:48/10	07:25 07:47-07:54/7 17:57 08:09-09:11/62	07:06 15:58-16:00/10 16:21	07:33 15:20-15:38/18 16:21
26	05:35 20:32	06:11 19:46	06:48 07:11-07:38/27 08:35-08:55/20 18:48 07:38-07:49/11	07:26 08:10-09:11/61 17:55	07:08 15:59-16:00/10 16:20	07:34 15:21-15:39/18 16:21
27	05:36 20:31	06:12 19:44	06:49 07:10-07:38/28 08:30-08:58/28 18:46 07:38-07:49/11	07:27 08:10-09:10/60 17:54	07:09 15:59-16:00/10 16:20	07:34 15:22-15:39/17 16:22
28	05:37 20:30	06:13 19:42	06:50 07:12-07:39/27 08:28-09:02/34 18:45 07:39-07:51/12	07:29 08:11-09:08/57 17:52	07:10 15:59-16:00/10 16:19	07:34 15:22-15:39/17 16:23
29	05:38 20:29	06:15 19:41	06:52 07:13-07:39/26 08:25-09:04/39 18:43 07:39-07:51/12	07:30 08:12-09:08/56 17:51	07:11 15:59-16:00/10 16:19	07:34 15:23-15:39/16 16:23
30	05:40 20:28	06:16 19:39	06:53 07:14-07:41/27 08:23-09:05/42 18:41 07:40-07:51/11	07:31 08:12-09:06/54 17:49	07:13 15:59-16:00/10 16:18	07:35 15:24-15:39/15 16:24
31	05:41 20:27	06:17 19:37		07:33 08:14-09:06/52 17:48		07:35 15:25-15:40/15 16:25
Potential sun hours	472	436	376	341	288	275
Sum of minutes with flicker	0	0	491	2636	646	407

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

Project:

Jericho_SFA_2015_08_28

Printed/Page

8/28/2015 10:59 AM / 81

Licensed user:

EDR

217 Montgomery St.

US-SYRACUSE, NY 13202

(315) 471 0688

Jacob Runner / jrunner@edrdpc.com

Calculated:

8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG**WTG:** Alt 9 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (130)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	07:35 08:02-08:28/26 09:15-09:47/32 16:26 08:30-08:46/16 15:12-15:58/46	07:17 07:39-08:30/51 17:04 15:48-16:10/22	06:36 07:17-08:19/62 17:44 17:19-17:21/2	06:39 07:17-08:19/62 19:24 20:00	05:48 20:00	05:14 20:35
2	07:35 08:02-08:28/26 09:16-09:47/31 16:27 08:31-08:46/15 15:13-15:58/45	07:16 07:38-08:31/53 17:06 15:50-16:08/18	06:34 07:16-08:19/63 17:45 17:17-17:22/5	06:37 07:16-08:19/63 19:25 20:01	05:46 20:01	05:14 20:35
3	07:35 08:03-08:29/26 09:16-09:46/30 16:28 08:32-08:45/13 15:12-15:59/47	07:15 07:37-08:31/54 17:07 15:53-16:06/13	06:33 07:16-08:19/63 17:46 17:16-17:23/7	06:35 07:16-08:19/63 19:26 20:03	05:45 20:03	05:13 20:36
4	07:35 08:02-08:29/27 09:17-09:46/29 16:29 08:33-08:44/11 15:13-16:00/47	07:14 07:36-08:32/56 17:09 17:14-17:24/10	06:31 07:15-08:18/63 17:48 17:14-17:24/10	06:34 07:15-08:18/63 19:27 20:04	05:43 20:04	05:13 20:37
5	07:35 08:03-08:29/26 09:19-09:45/26 16:30 08:35-08:43/8 15:13-16:01/48	07:13 07:34-08:31/57 17:10 17:10	06:29 07:16-08:19/63 17:49 17:14-17:26/12	06:32 07:16-08:19/63 19:29 20:05	05:42 20:05	05:12 20:38
6	07:35 08:04-08:30/26 09:20-09:45/25 16:31 08:39-08:41/2 15:14-16:03/49	07:11 07:33-08:32/59 17:11 17:11	06:27 07:15-08:18/63 17:50 17:14-17:28/14	06:30 07:15-08:18/63 19:30 20:06	05:41 20:06	05:12 20:39
7	07:35 08:05-08:30/25 15:15-16:04/49 16:32 09:22-09:44/22	07:10 07:32-08:32/60 17:13 17:13	06:25 07:15-08:18/63 17:52 17:13-17:29/16	06:28 07:15-08:18/63 19:31 20:07	05:39 20:07	05:12 20:39
8	07:34 08:04-08:30/26 15:14-16:04/50 16:33 09:23-09:43/20	07:09 07:30-08:31/61 17:14 17:14	07:24 08:14-09:17/63 18:53 18:13-18:30/17	06:26 08:14-09:17/63 19:33 20:09	05:38 20:09	05:11 20:40
9	07:34 08:05-08:31/26 15:15-16:06/51 16:34 09:26-09:42/16	07:07 07:30-08:31/61 17:16 17:16	07:22 08:14-09:17/63 18:54 18:13-18:31/18	06:24 08:14-09:17/63 19:34 20:10	05:37 20:10	05:11 20:41
10	07:34 08:06-08:31/25 15:16-16:08/52 16:35 09:29-09:40/11	07:06 07:28-08:30/62 17:17 17:17	07:20 08:14-09:16/62 18:56 18:13-18:32/19	06:23 08:14-09:16/62 19:35 20:11	05:35 20:11	05:11 20:41
11	07:33 08:06-08:31/25 16:36 15:16-16:08/52	07:05 07:28-08:30/62 17:19 17:19	07:18 08:15-09:16/61 18:57 18:14-18:35/21	06:21 08:15-09:16/61 19:36 20:12	05:34 20:12	05:11 20:42
12	07:33 08:07-08:31/24 16:38 15:17-16:10/53	07:03 07:28-08:29/61 17:20 17:20	07:16 08:15-09:15/60 18:58 18:15-18:33/18	06:19 08:15-09:15/60 19:38 20:13	05:33 20:13	05:10 20:43
13	07:33 08:08-08:31/23 16:39 15:17-16:11/54	07:02 07:27-07:58/31 17:21 07:56-08:28/32	07:15 08:15-09:14/59 19:00 18:16-18:31/15	06:17 08:15-09:14/59 19:39 20:15	05:32 20:15	05:10 20:43
14	07:32 08:09-08:31/22 16:40 15:18-16:13/55	07:00 07:28-08:01/33 17:23 08:00-08:27/27	07:13 08:15-09:13/58 19:01 18:19-18:28/9	06:16 08:15-09:13/58 19:40 20:16	05:30 20:16	05:10 20:44
15	07:32 08:02-08:08/6 15:18-16:13/55 16:41 08:09-08:31/22	06:59 07:27-08:04/37 17:24 08:04-08:26/22	07:11 08:15-09:11/56 19:02 19:02	06:14 08:15-09:11/56 19:41 20:17	05:29 20:17	05:10 20:44
16	07:31 07:58-08:30/32 16:42 15:18-16:14/56	06:57 07:26-08:06/40 17:26 08:06-08:24/18	07:09 08:16-09:10/54 19:03 19:03	06:12 08:16-09:10/54 19:43 20:18	05:28 20:18	05:10 20:45
17	07:31 07:57-08:31/34 16:44 15:20-16:15/55	06:56 07:27-08:09/42 17:27 08:09-08:23/14	07:07 08:16-09:09/53 19:05 19:05	06:10 08:16-09:09/53 19:44 20:19	05:27 20:19	05:10 20:45
18	07:30 07:56-08:30/34 16:45 15:20-16:15/55	06:54 07:26-08:10/44 17:28 08:10-08:20/10	07:05 08:18-09:08/50 19:06 19:06	06:09 08:18-09:08/50 19:45 20:20	05:26 20:20	05:10 20:45
19	07:29 07:54-08:29/35 16:46 15:21-16:15/54	06:53 07:27-08:13/46 17:30 08:13-08:18/5	07:03 08:19-09:06/47 19:07 19:07	06:07 08:19-09:06/47 19:46 20:21	05:25 20:21	05:10 20:46
20	07:29 07:54-08:28/34 16:48 15:21-16:15/54	06:51 07:25-08:13/48 17:31 17:31	07:02 08:20-09:04/44 19:09 19:09	06:05 08:20-09:04/44 19:48 20:23	05:24 20:23	05:10 20:46
21	07:28 07:53-08:26/33 16:49 15:23-16:16/53	06:49 07:24-08:13/49 17:33 17:33	07:00 08:21-09:02/41 19:10 19:10	06:04 08:21-09:02/41 19:49 20:24	05:23 20:24	05:11 20:46
22	07:27 07:52-08:23/31 16:50 15:24-16:15/51	06:48 07:23-08:15/52 17:34 17:34	06:58 08:22-08:59/37 19:11 19:11	06:02 08:22-08:59/37 19:50 20:25	05:22 20:25	05:11 20:47
23	07:26 07:52-08:24/32 16:52 15:25-16:15/50	06:46 07:22-08:16/54 17:35 17:35	06:56 08:24-08:57/33 19:12 19:12	06:00 08:24-08:57/33 19:51 20:26	05:21 20:26	05:11 20:47
24	07:25 07:51-08:25/34 16:14-16:15/1 16:53 15:26-16:14/48	06:45 07:20-08:16/56 17:37 17:37	06:54 08:26-08:53/27 19:14 19:14	05:59 08:26-08:53/27 19:53 20:27	05:20 20:27	05:11 20:47
25	07:24 07:50-08:26/36 16:13-16:15/2 16:54 15:27-16:13/46	06:43 07:20-08:17/57 17:38 17:38	06:52 08:29-08:49/20 19:15 19:15	05:57 08:29-08:49/20 19:54 20:28	05:19 20:28	05:12 20:47
26	07:24 07:50-08:27/37 16:12-16:15/3 16:56 15:28-16:12/44	06:41 07:19-08:18/59 17:40 17:40	06:50 08:35-08:42/7 19:16 19:16	05:55 08:35-08:42/7 19:55 20:29	05:18 20:29	05:12 20:47
27	07:23 07:50-08:28/38 16:10-16:14/4 16:57 15:30-16:10/40	06:39 07:18-08:18/60 17:41 17:41	06:48 07:18-08:18/60 19:17 19:17	05:54 07:18-08:18/60 19:56 20:30	05:18 20:30	05:12 20:47
28	07:22 07:44-07:46/2 15:32-16:14/42 16:59 07:49-08:29/40	06:38 07:17-08:18/61 17:42 17:42	06:47 07:17-08:18/61 19:19 19:19	05:52 07:17-08:18/61 19:58 20:31	05:17 20:31	05:13 20:47
29	07:21 07:43-08:29/46 17:00 15:35-16:13/38	06:37 07:16-08:17/62 17:43 17:43	06:46 07:16-08:17/62 19:20 19:20	05:51 07:16-08:17/62 19:59 20:32	05:16 20:32	05:13 20:47
30	07:20 07:42-08:30/48 17:01 15:38-16:13/35	06:36 07:15-08:16/63 17:44 17:44	06:45 07:15-08:16/63 19:21 19:21	05:49 07:15-08:16/63 20:00 20:33	05:16 20:33	05:14 20:47
31	07:18 07:41-08:31/50 17:03 15:46-16:11/25	06:35 07:14-08:15/64 17:45 17:45	06:44 07:14-08:15/64 19:22 19:22	05:48 07:14-08:15/64 20:01 20:34	05:15 20:34	05:15 20:47
Potential sun hours 286		291	369	404	459	466
Sum of minutes with flicker 2793		1644	1518	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

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SHADOW - Calendar per WTG**WTG:** Alt 9 - GAMESA G114 2100 114.0 !O! hub: 93.0 m (TOT: 150.0 m) (130)**Assumptions for shadow calculations**

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.41	0.48	0.51	0.49	0.56	0.59	0.64	0.60	0.54	0.47	0.31	0.33

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Sum
26	42	44	71	220	221	319	276	565	945	1,346	1,937	1,873	601	213	60	8,759

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:14 20:47	05:42 20:25	06:18 19:35	06:54 18:39	07:54-08:53/59 17:54-18:11/17	06:34 16:46
2	05:15 20:47	05:43 20:24	06:19 19:33	06:55 18:37	07:53-08:53/60 17:53-18:12/19	06:35 16:45
3	05:15 20:47	05:44 20:23	06:21 19:32	06:56 18:35	07:53-08:54/61 17:52-18:12/20	06:37 16:44
4	05:16 20:47	05:45 20:22	06:22 19:30	06:58 18:33	07:52-08:54/62 17:51-18:10/19	06:38 16:42
5	05:17 20:46	05:46 20:20	06:23 19:28	06:59 18:31	07:51-08:54/63 17:50-18:08/18	06:40 16:41
6	05:17 20:46	05:47 20:19	06:24 19:26	07:00 18:30	07:50-08:54/64 17:49-18:05/16	06:41 16:40
7	05:18 20:46	05:49 20:18	06:25 19:24	07:01 18:28	07:51-08:54/63 17:49-18:04/15	06:42 16:38
8	05:19 20:45	05:50 20:16	06:26 19:22	07:03 18:26	07:50-08:54/64 17:49-18:02/13	06:44 16:37
9	05:19 20:45	05:51 20:15	06:28 19:20	07:04 18:24	07:50-08:53/63 17:49-18:00/11	06:45 16:36
10	05:20 20:44	05:52 20:13	06:29 19:19	07:05 18:22	07:50-08:53/63 17:50-17:59/9	06:46 16:35
11	05:21 20:44	05:53 20:12	06:30 19:17	07:06 18:21	07:50-08:53/63 17:50-17:57/7	06:48 16:34
12	05:22 20:43	05:54 20:10	06:31 19:15	07:08 18:19	07:50-08:52/62 17:51-17:55/4	06:49 16:32
13	05:23 20:43	05:56 20:09	06:32 19:13	07:09 18:17	07:51-08:52/61 17:51-08:52/61	06:51 16:31
14	05:23 20:42	05:57 20:07	06:34 19:11	07:10 18:15	07:51-08:51/60 17:51-08:50/59	06:52 16:30
15	05:24 20:42	05:58 20:06	06:35 19:09	07:12 18:14	07:51-08:50/59 17:51-08:50/59	06:53 16:29
16	05:25 20:41	05:59 20:04	06:36 19:07	07:13 18:12	07:52-08:50/58 17:52-08:49/57	06:55 16:28
17	05:26 20:40	06:00 20:03	06:37 19:05	07:14 18:10	07:52-08:49/57 17:52-08:47/55	06:56 16:27
18	05:27 20:39	06:02 20:01	06:38 19:03	07:15 18:08	07:52-08:47/55 17:53-08:47/54	06:57 16:26
19	05:28 20:39	06:03 19:58	06:39 19:02	07:17 18:07	07:53-08:47/54 17:53-08:41/44	06:59 16:25
20	05:29 20:38	06:04 19:56	06:41 19:00	07:18 18:05	07:54-08:45/51 17:54-08:45/51	07:00 16:25
21	05:30 20:37	06:05 19:54	06:42 18:58	07:19 18:03	07:55-08:43/48 17:56-08:44/48	07:01 16:24
22	05:31 20:36	06:06 19:53	06:43 18:56	07:21 18:02	07:56-08:44/48 17:56-08:42/45	07:03 16:23
23	05:32 20:35	06:07 19:51	06:44 18:54	07:22 18:00	07:57-08:42/45 17:57-08:42/45	07:04 16:22
24	05:33 20:34	06:09 19:49	06:45 18:52	07:23 17:58	07:57-08:41/44 17:58-08:41-08:51/10	07:05 16:21
25	05:34 20:33	06:10 19:48	06:47 18:50	07:25 17:57	07:58-08:38/42 17:58-08:38-08:53/15	07:06 16:21
26	05:35 20:32	06:11 19:46	06:48 18:48	07:26 17:55	07:58-08:35/39 17:58-08:35-08:54/19	07:08 16:20
27	05:36 20:31	06:12 19:44	06:49 18:46	07:27 17:54	07:57-08:34/37 17:57-08:34-08:56/23	07:09 16:20
28	05:37 20:30	06:13 19:42	06:50 18:45	07:29 17:52	07:58-08:30/34 17:58-08:29-08:57/28	07:10 16:19
29	05:38 20:29	06:15 19:41	06:52 18:43	07:30 17:51	07:58-08:25/28 17:58-08:25-08:58/35	07:11 16:18
30	05:40 20:28	06:16 19:39	06:53 18:41	07:31 17:49	07:58-08:59/62 17:58-08:59-09:00/62	07:12 16:18
31	05:41 20:27	06:17 19:37		07:33 17:48		07:13 16:15
Potential sun hours	472	436	376	341	288	275
Sum of minutes with flicker	0	0	584	1993	2298	3604

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

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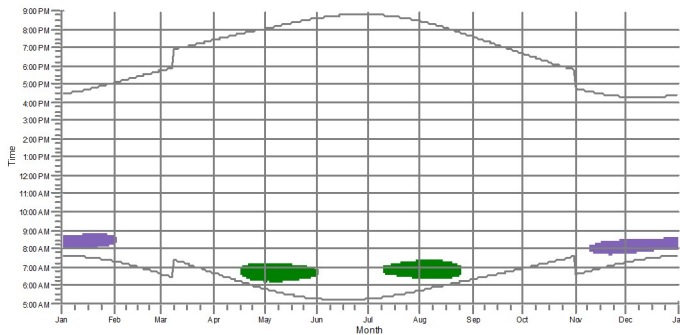
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Calculated:

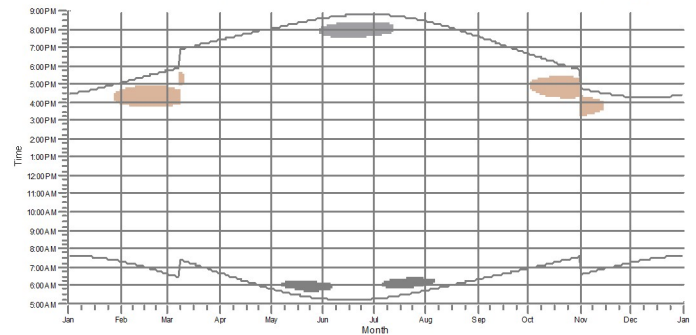
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

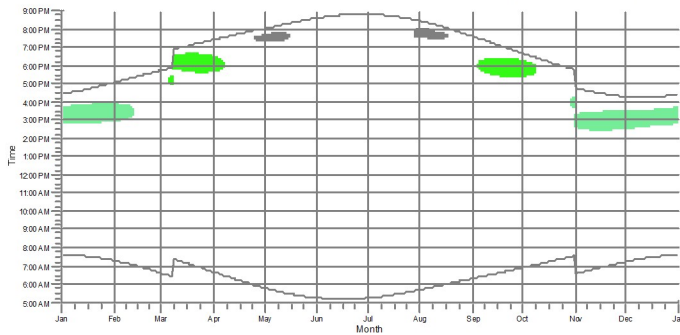
5: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (623)



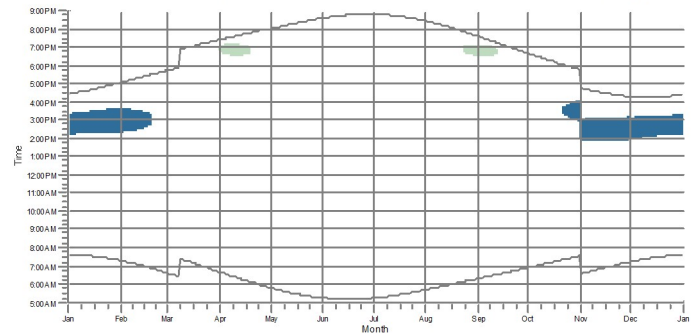
12: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (624)



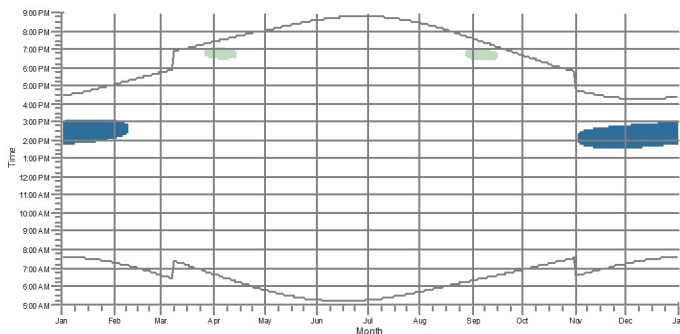
72: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (669)



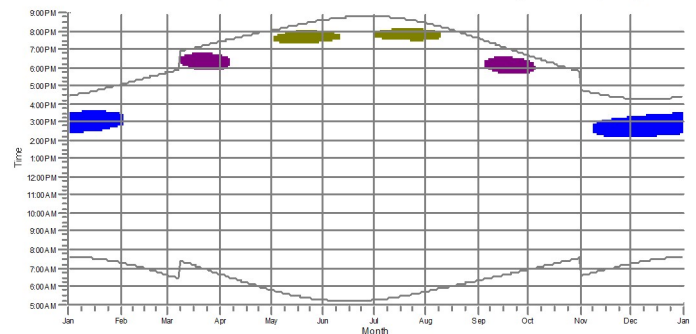
74: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (671)



76: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (673)



82: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (679)



WTGs

1: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (87)
 11: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (97)
 12: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (98)
 18: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (104)

19: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (105)
 21: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (107)
 23: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (109)
 24: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (110)

25: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (111)
 29: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (115)
 32: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (118)
 6: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (91)

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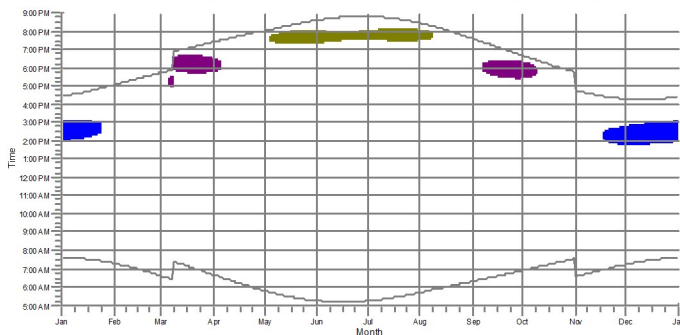
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Calculated:

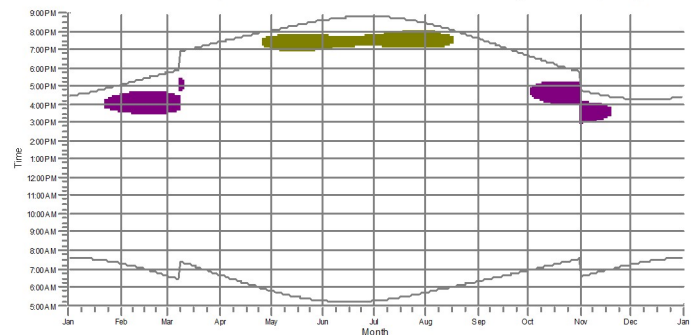
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

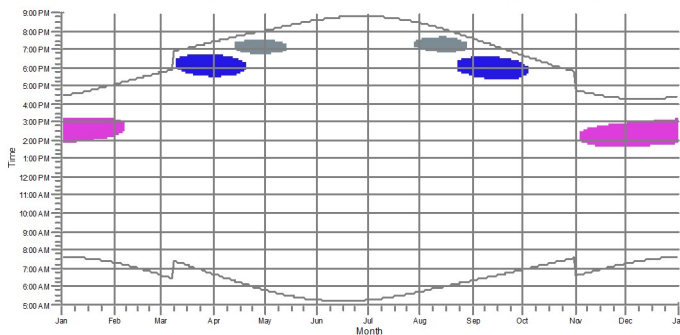
83: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (680)



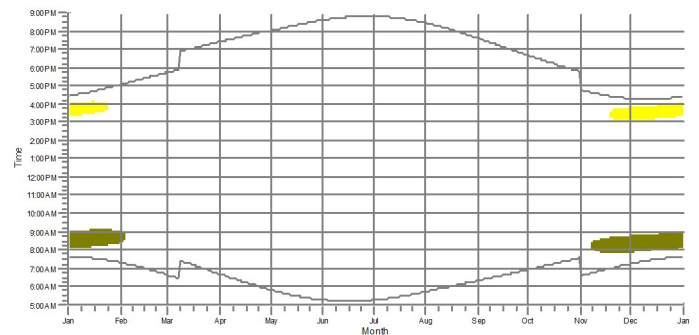
84: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (681)



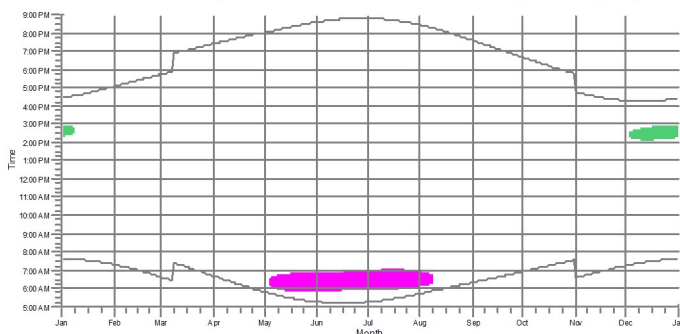
87: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (684)



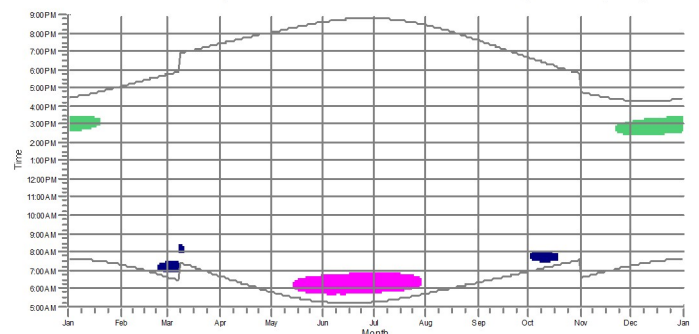
88: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (685)



105: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (697)



106: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (698)



WTGs

10: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (96)
 11: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (97)
 13: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (99)
 15: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (101)

18: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (104)
 19: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (105)
 34: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (120)
 7: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (93)

8: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (94)
 Alt 1: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (124)

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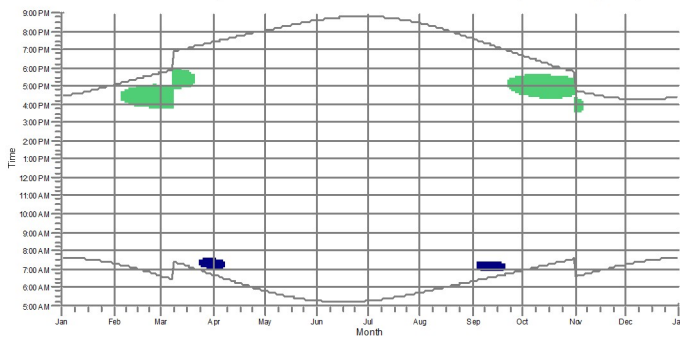
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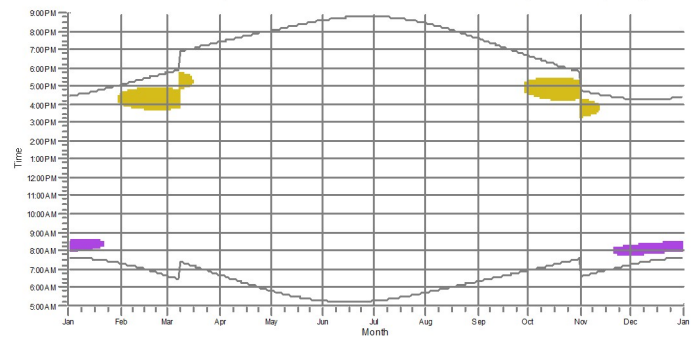
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SHADOW - Calendar, graphical

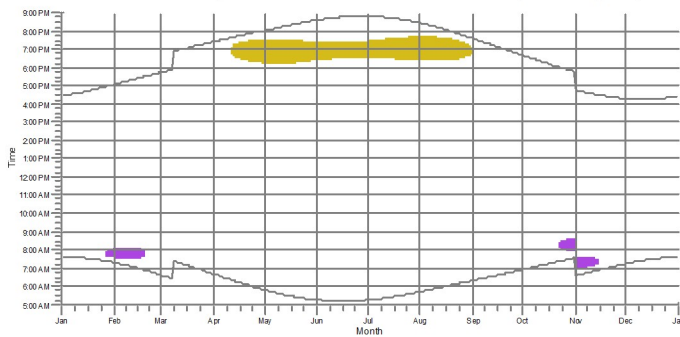
109: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (701)



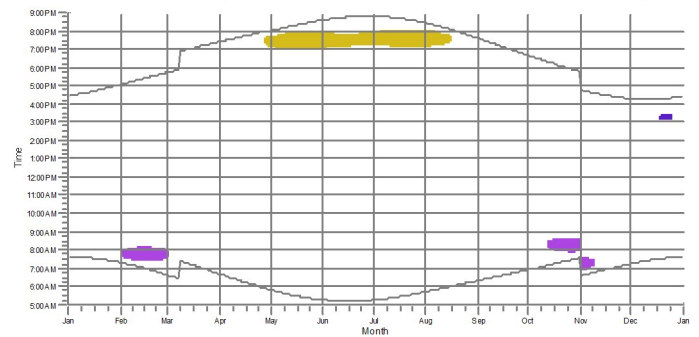
112: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (704)



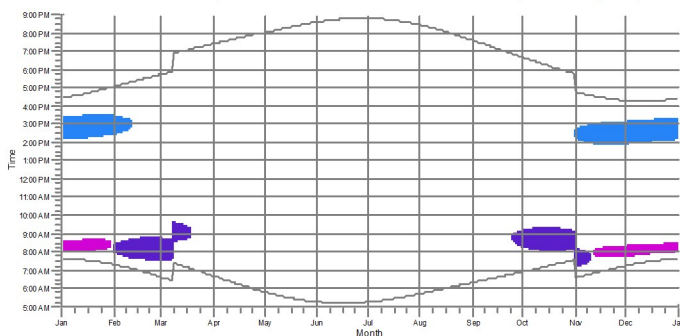
113: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (705)



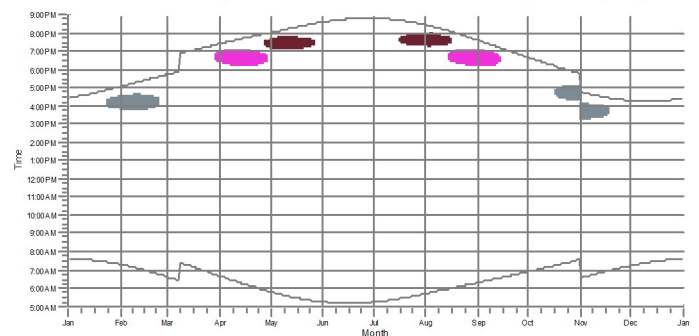
114: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (706)



116: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (708)



150: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (739)



WTGs

15: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (101)
 34: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (120)
 36: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (122)
 37: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (123)

4: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (90)
 Alt 1: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (124)
 Alt 2: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (125)
 Alt 4: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (127)

Alt 5: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (128)
 Alt 9: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (130)

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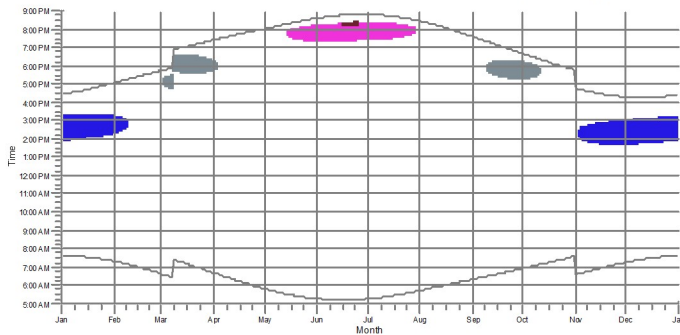
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Calculated:

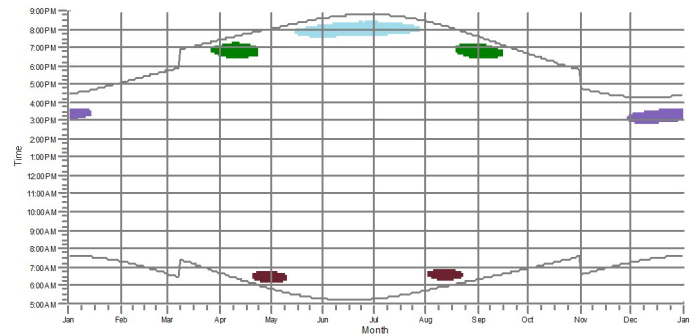
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

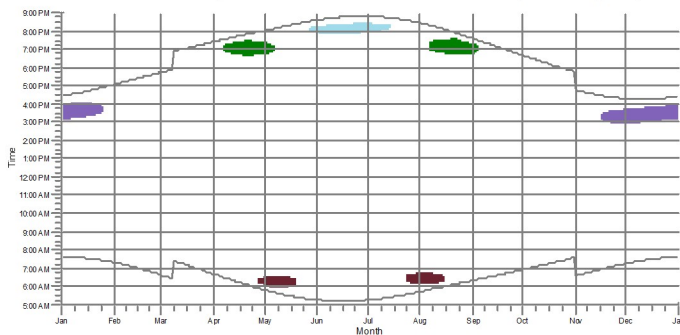
151: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (740)



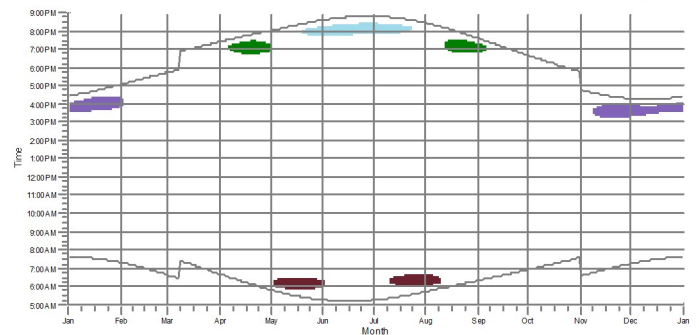
153: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (742)



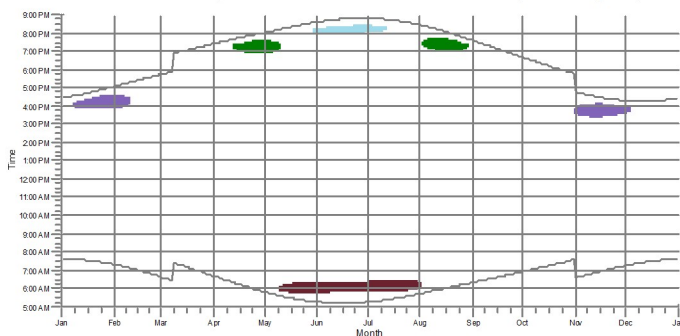
154: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (743)



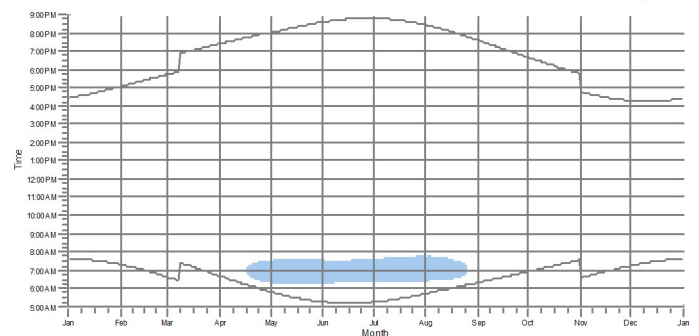
155: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (744)



156: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (745)



170: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (759)



WTGs

1: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (87)
 22: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (108)
 37: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (123)

4: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (90)
 5: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (92)
 6: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (91)

8: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (94)
 Alt 1: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (124)

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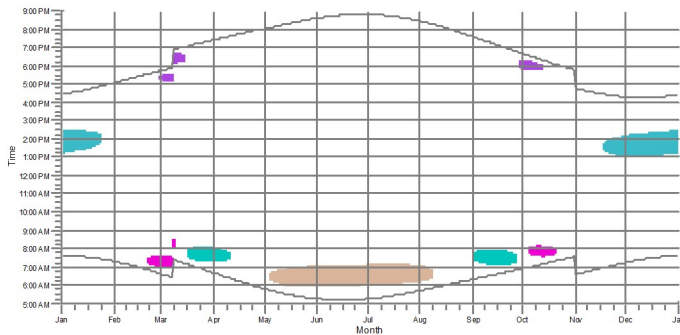
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Calculated:

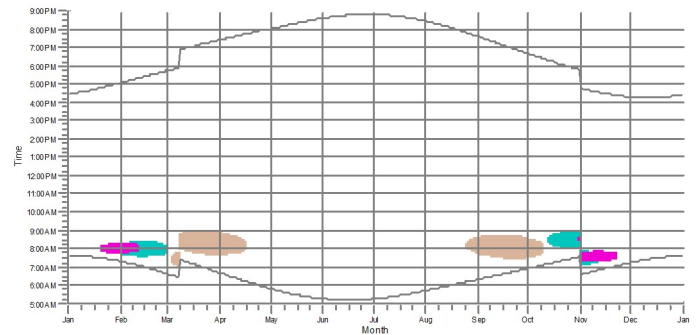
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

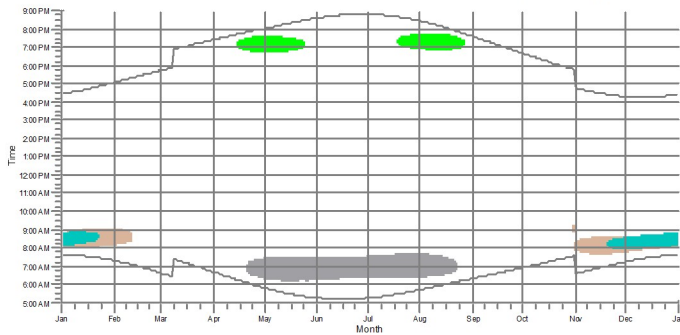
174: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (763)



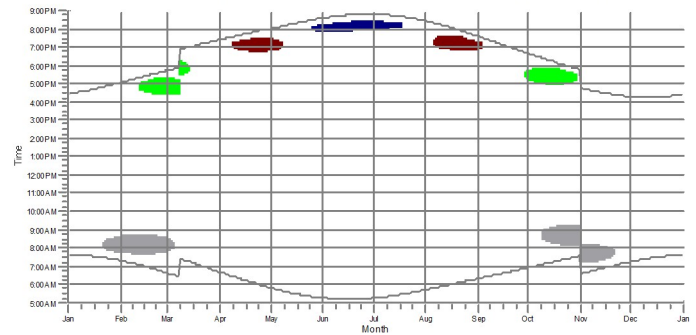
175: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (764)



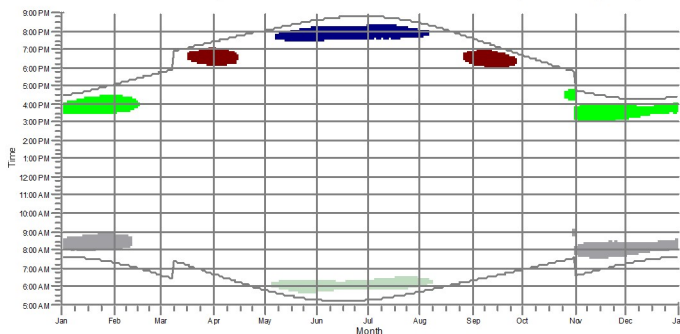
176: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (765)



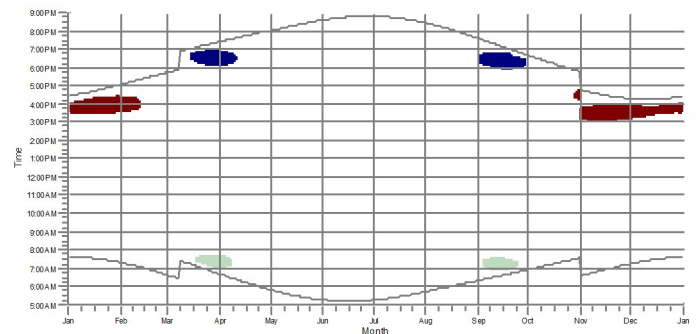
177: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (766)



179: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (768)



181: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (770)

**WTGs**

15: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (101)
 16: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (102)
 17: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (103)
 21: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (107)

23: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (109)
 24: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (110)
 26: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (112)
 28: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (114)

30: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (116)
 Alt 9: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (130)

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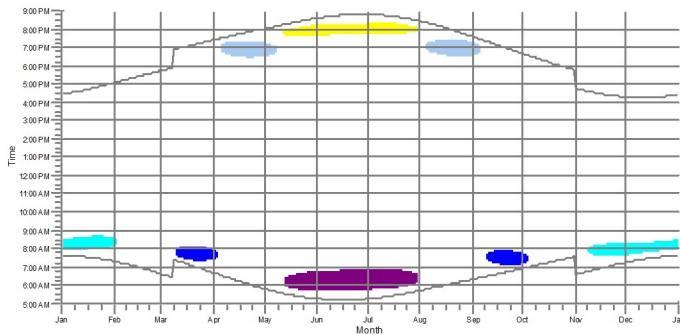
Jacob Runner / jrunner@edrdpc.com

Calculated:

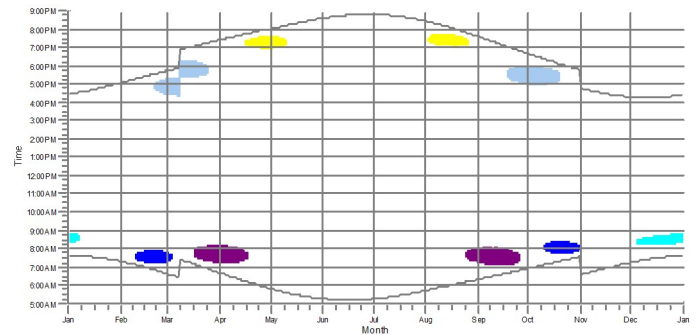
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

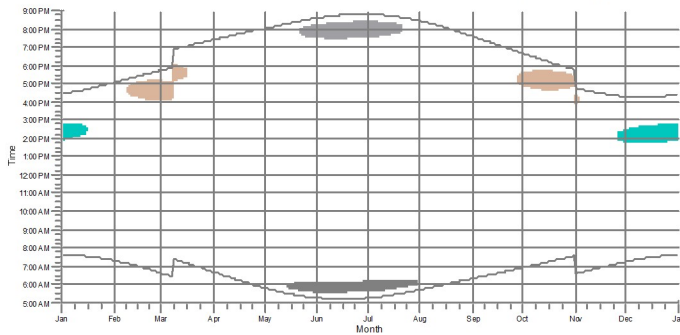
186: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (775)



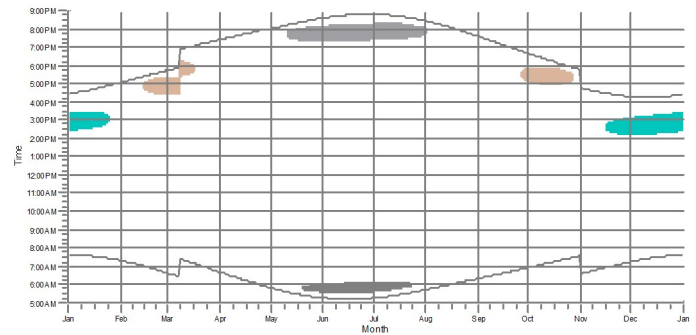
187: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (776)



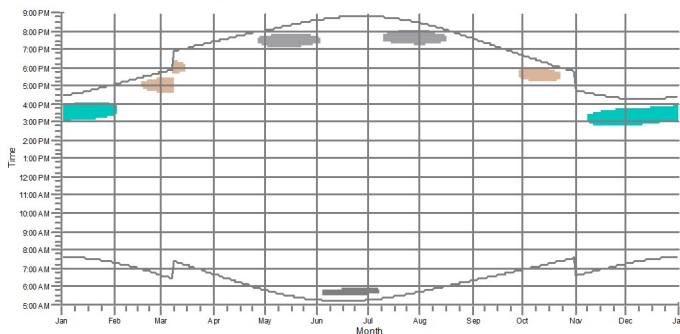
188: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (777)



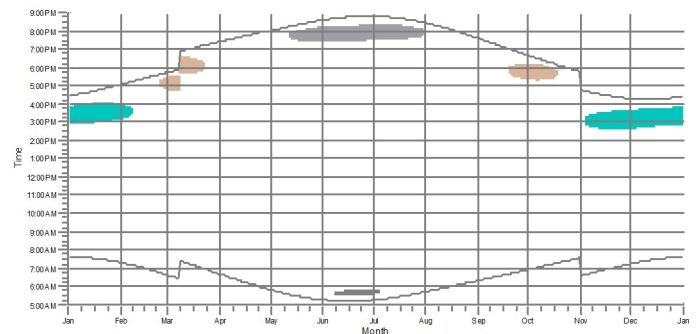
189: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (778)



190: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (779)



191: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (780)



WTGs

10: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (96)
 11: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (97)
 12: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (98)

19: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (105)
 20: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (106)
 22: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (108)

23: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (109)
 24: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (110)
 28: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (114)

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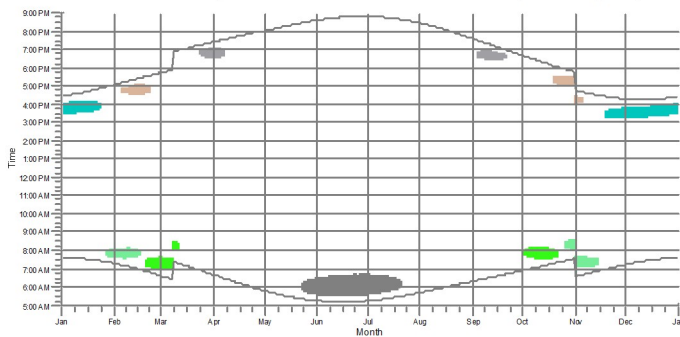
Jacob Runner / jrunner@edrdpc.com

Calculated:

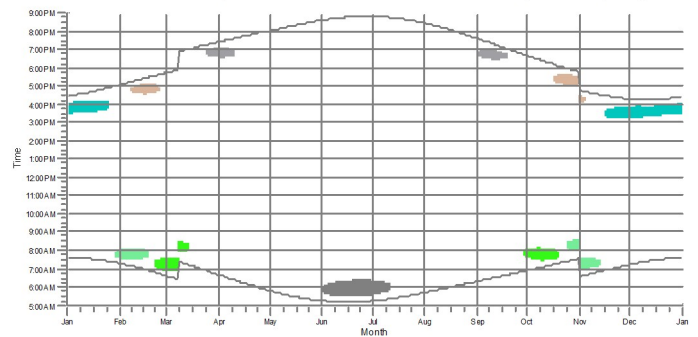
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

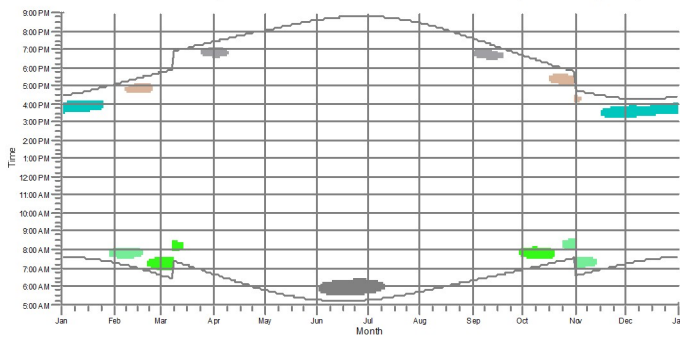
208: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (797)



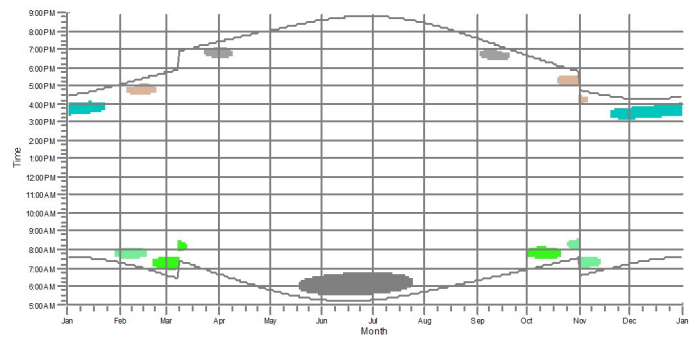
209: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (798)



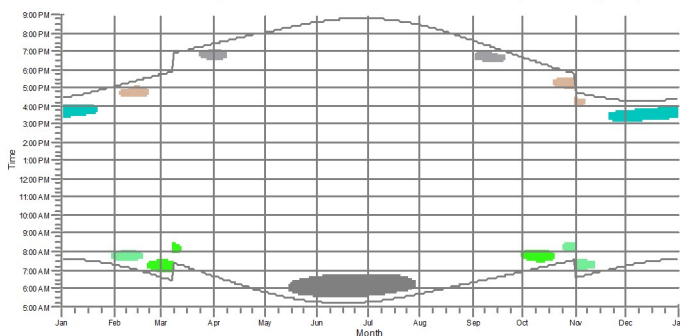
210: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (799)



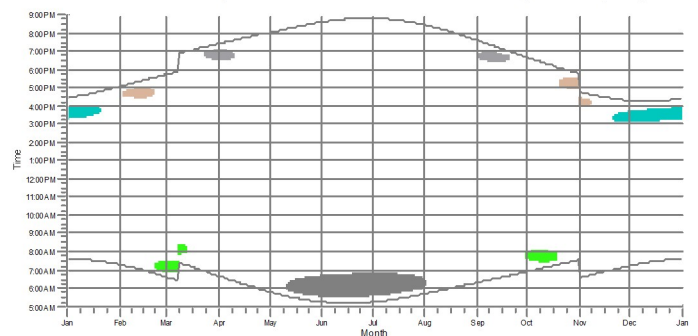
211: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (800)



212: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (801)



213: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (802)



WTGs

12: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (98)
 23: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (109)

24: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (110)
 25: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (111)

28: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (114)
 32: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (118)

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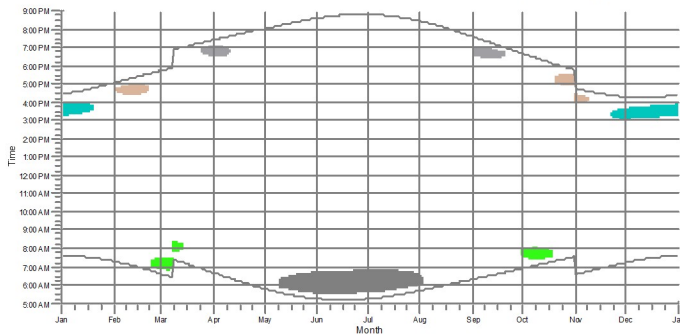
Jacob Runner / jrunner@edrdpc.com

Calculated:

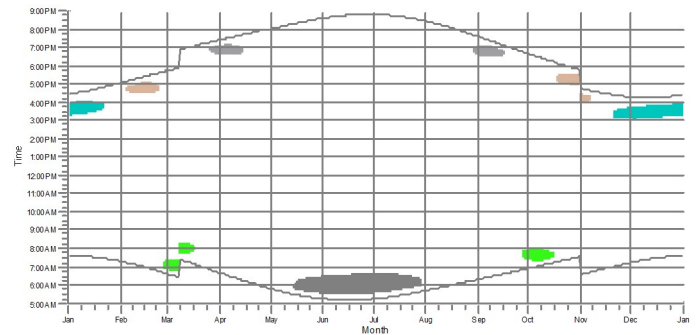
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

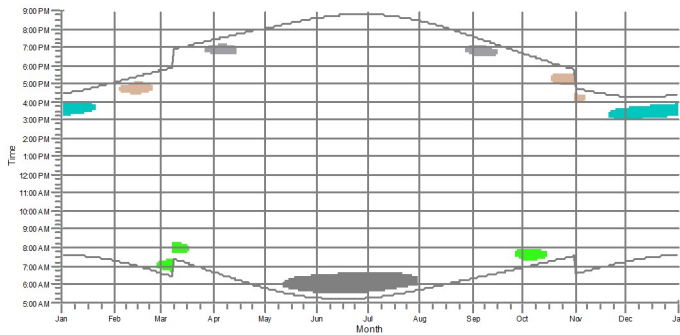
214: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (803)



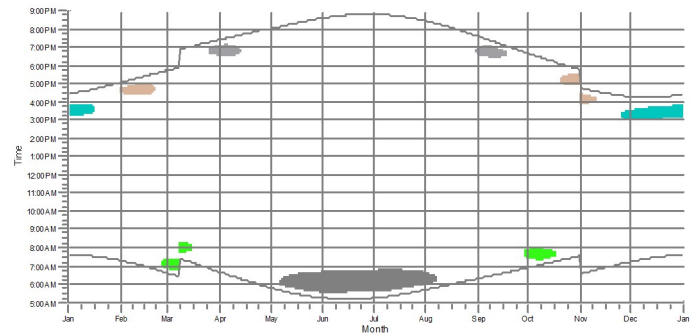
215: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (804)



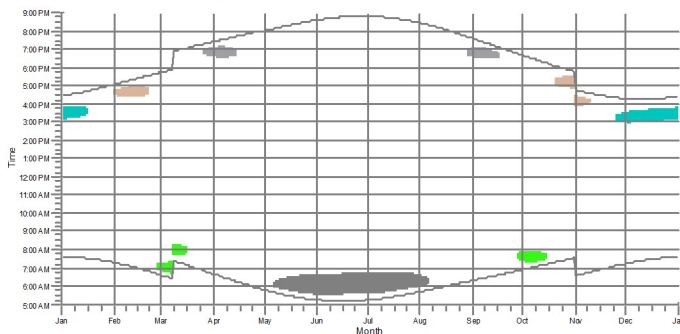
216: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (805)



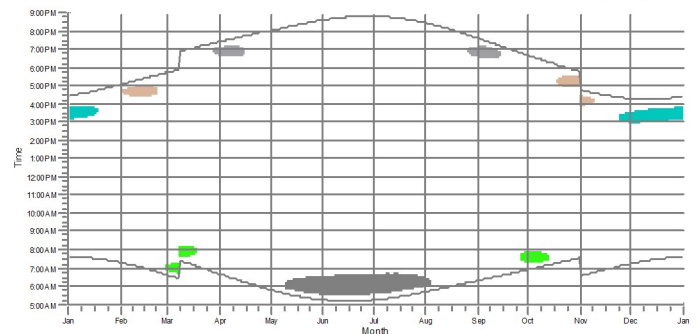
217: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (806)



218: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (807)



219: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (808)



WTGs

12: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (98)
 23: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (109)

24: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (110)
 25: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (111)

28: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (114)

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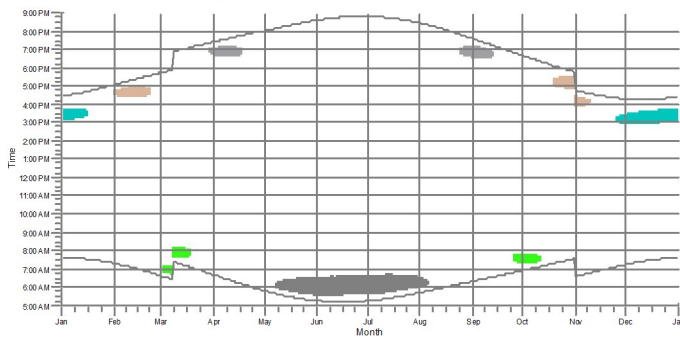
Jacob Runner / jrunner@edrdpc.com

Calculated:

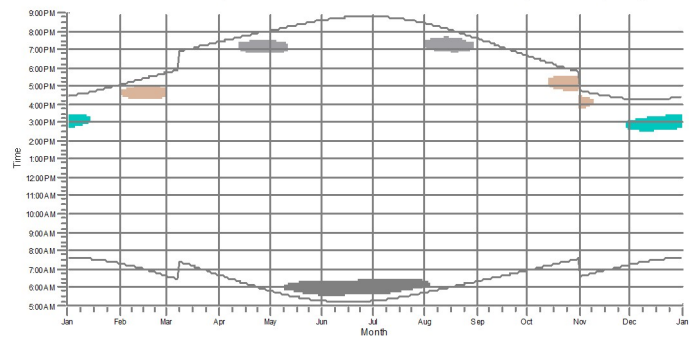
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

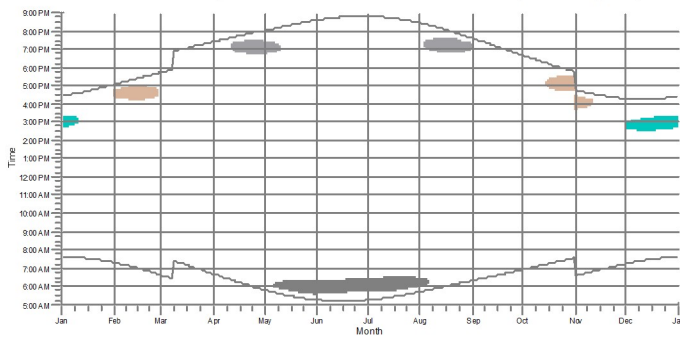
220: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (809)



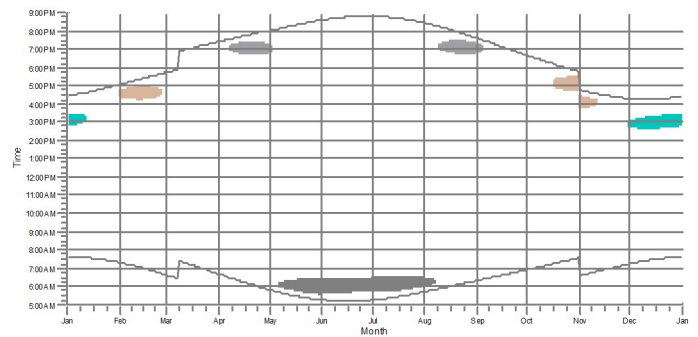
221: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (810)



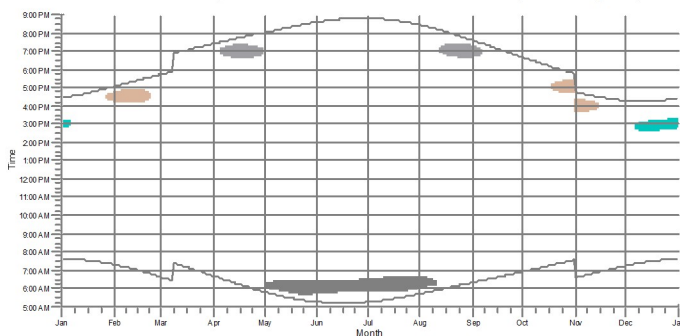
222: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (811)



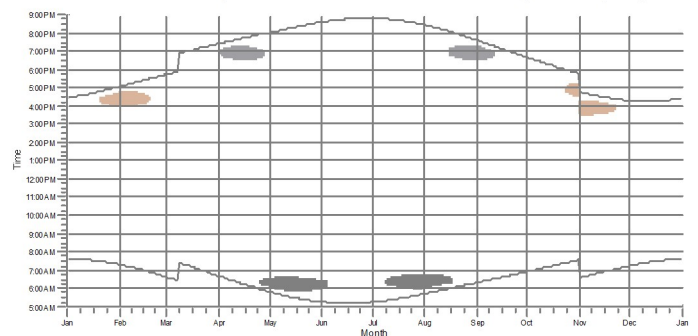
223: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (812)



224: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (813)



225: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (814)



WTGs

12: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (98)
 23: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (109)

24: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (110)
 25: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (111)

28: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (114)

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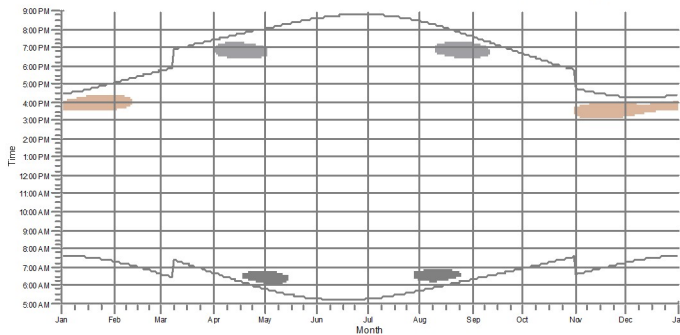
Jacob Runner / jrunner@edrdpc.com

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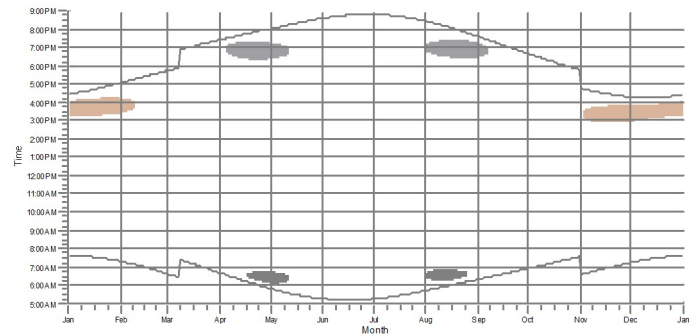
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

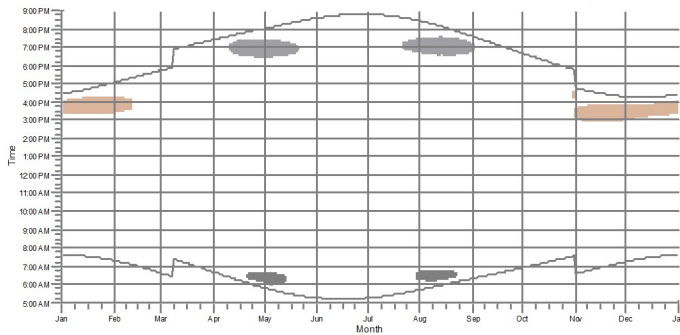
227: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (816)



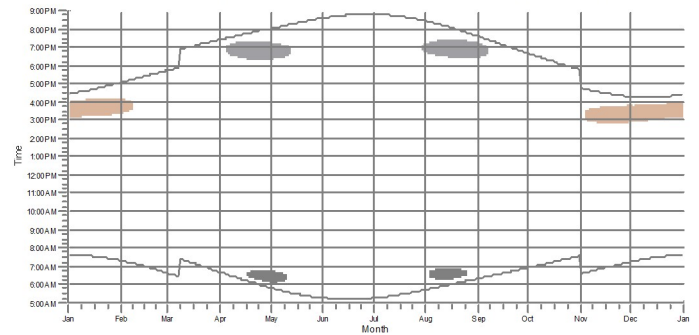
228: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (817)



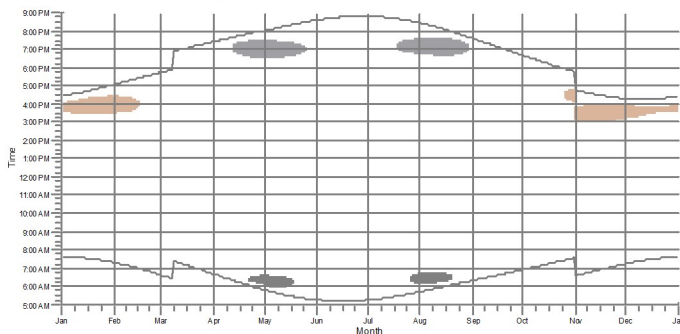
229: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (818)



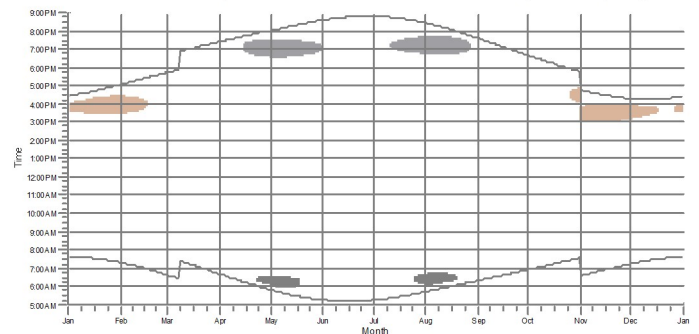
230: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (819)



231: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (820)



232: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (821)



WTGs

12: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (98)

23: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (109)

24: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (110)

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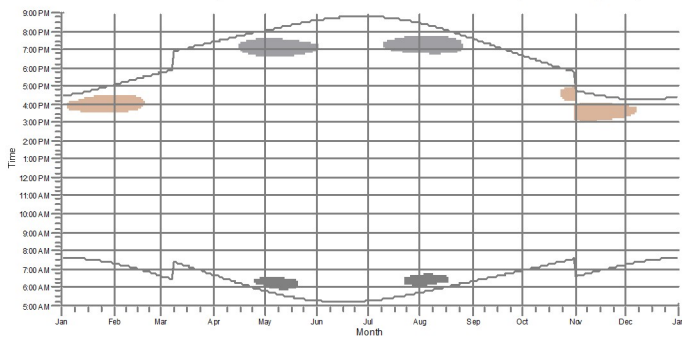
Jacob Runner / jrunner@edrdpc.com

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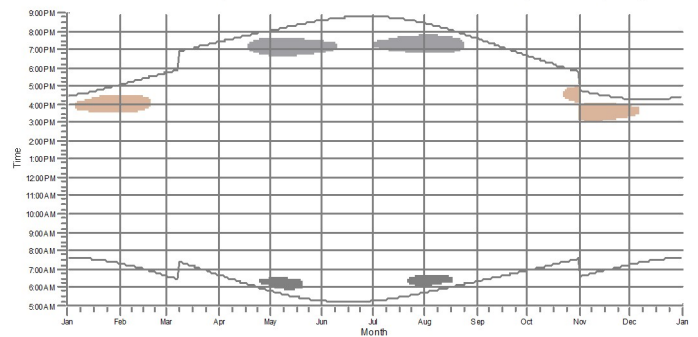
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

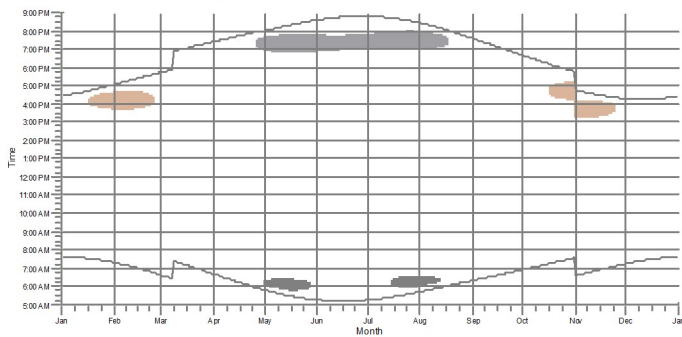
233: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (822)



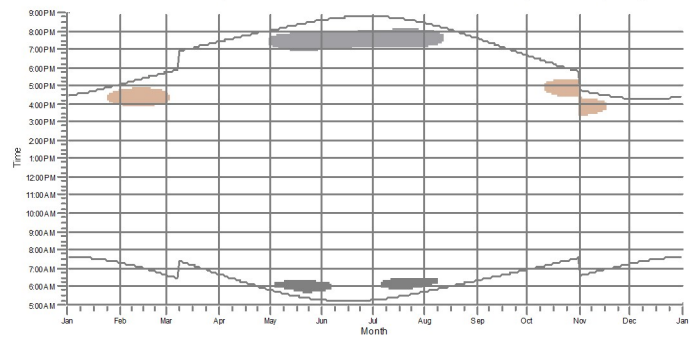
234: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (823)



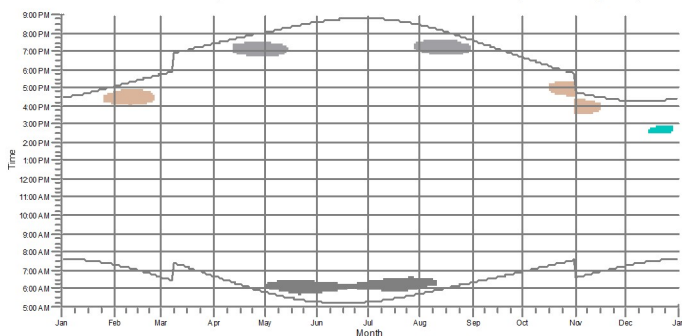
235: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (824)



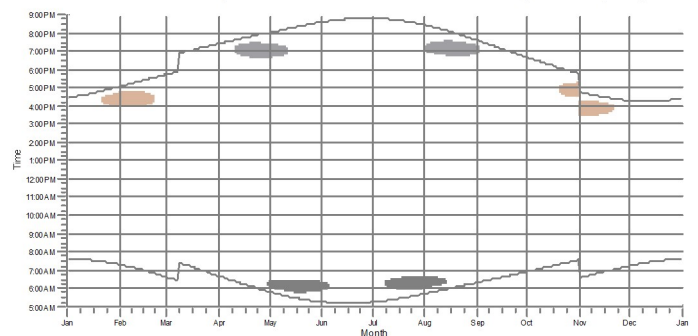
236: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (825)



237: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (826)



238: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (827)



WTGs

12: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (98)
 23: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (109)

24: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (110)
 28: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (114)

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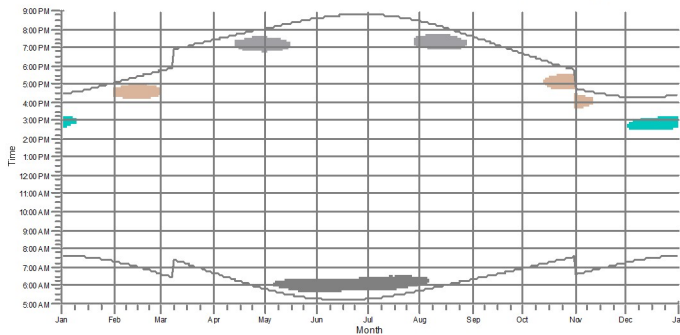
Jacob Runner / jrunner@edrdpc.com

Calculated:

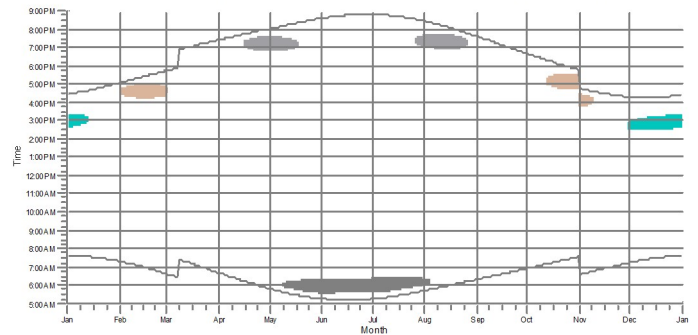
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SHADOW - Calendar, graphical

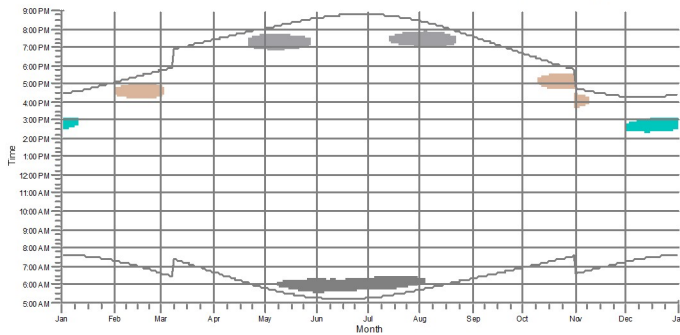
239: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (828)



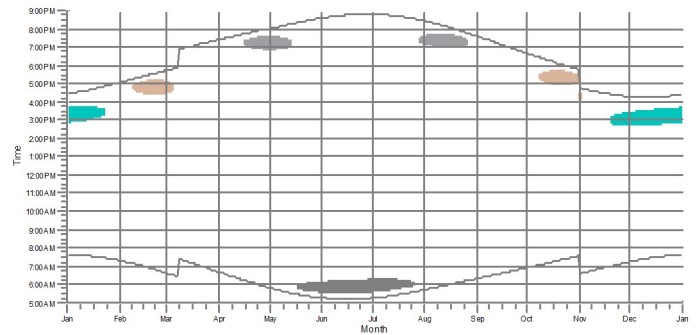
240: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (829)



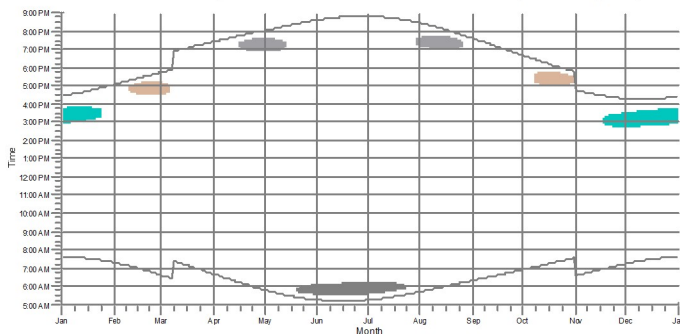
241: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (830)



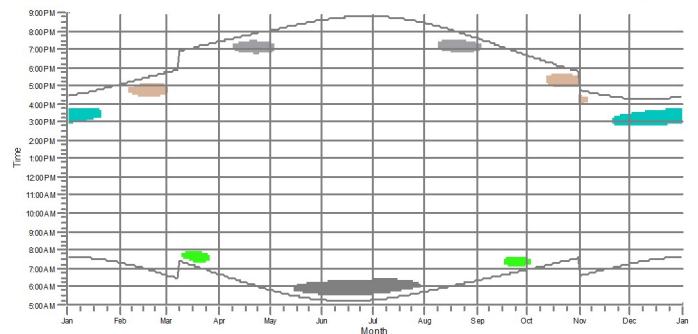
242: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (831)



243: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (832)



244: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (833)



WTGs

12: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (98)
 23: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (109)

24: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (110)
 25: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (111)

28: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (114)

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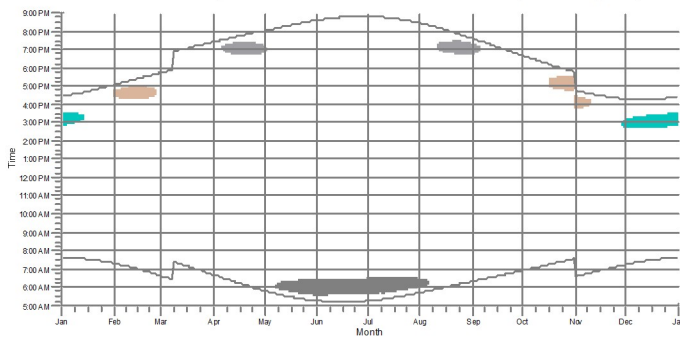
Jacob Runner / jrunner@edrdpc.com

Calculated:

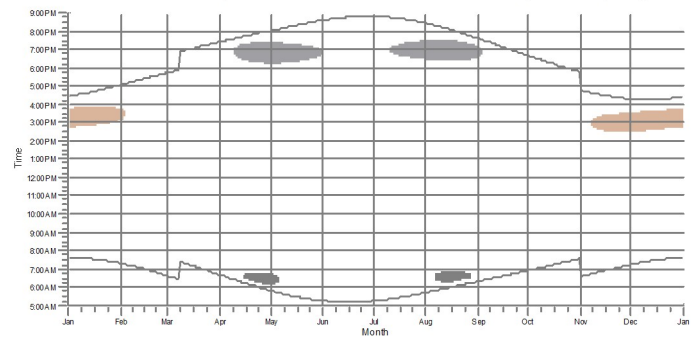
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

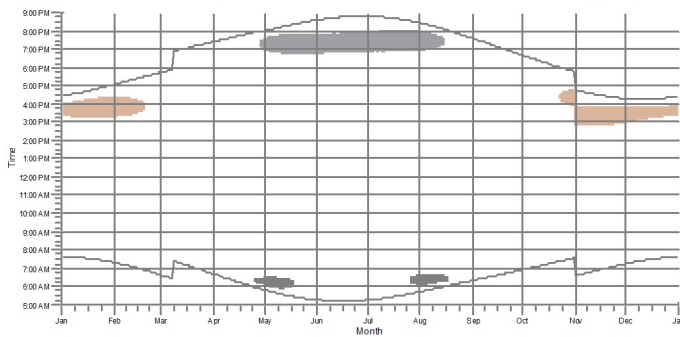
245: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (834)



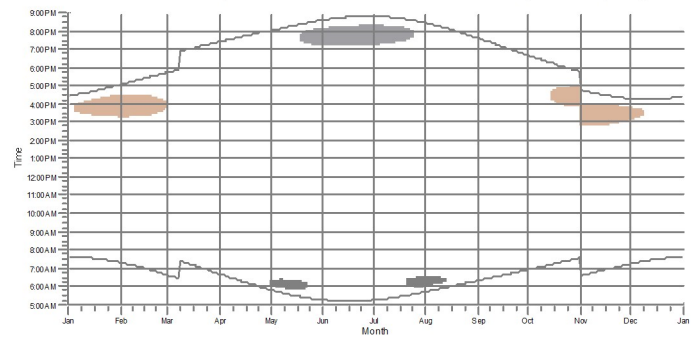
246: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (835)



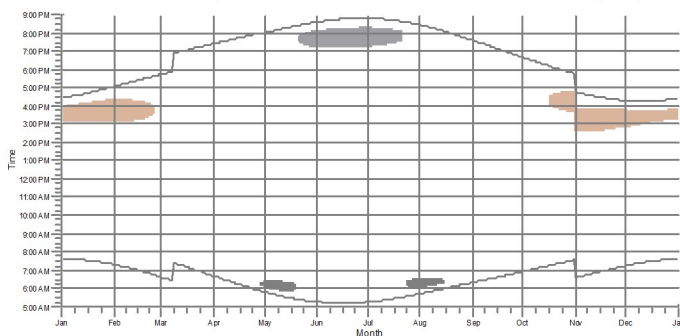
247: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (836)



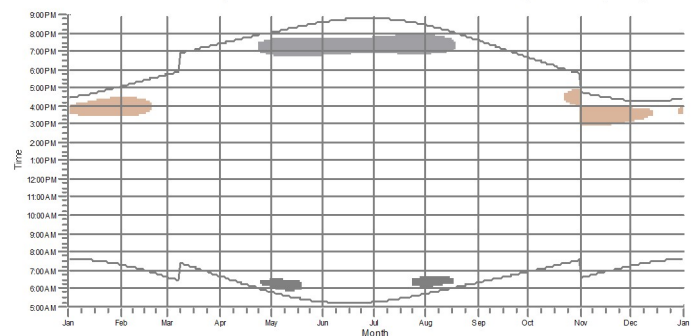
248: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (837)



249: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (838)



250: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (839)



WTGs

12: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (98)
 23: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (109)

24: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (110)
 28: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (114)

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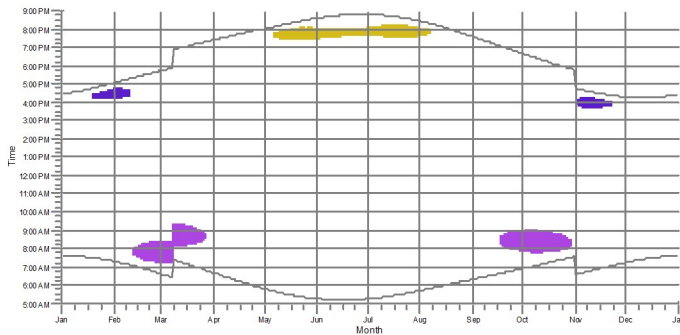
Jacob Runner / jrunner@edrdpc.com

Calculated:

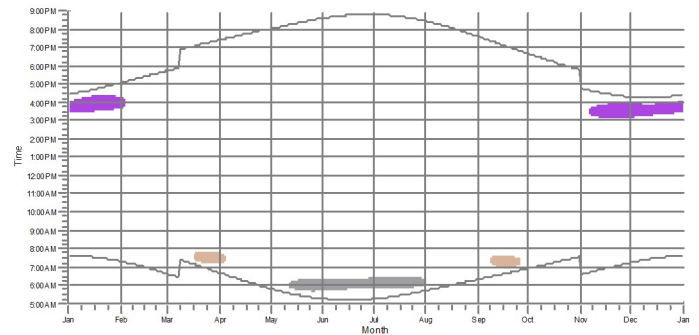
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar, graphical

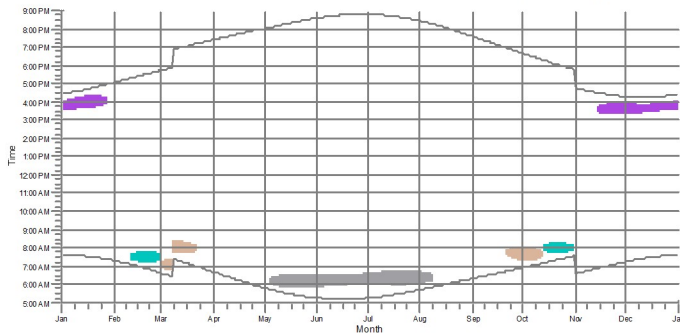
251: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (840)



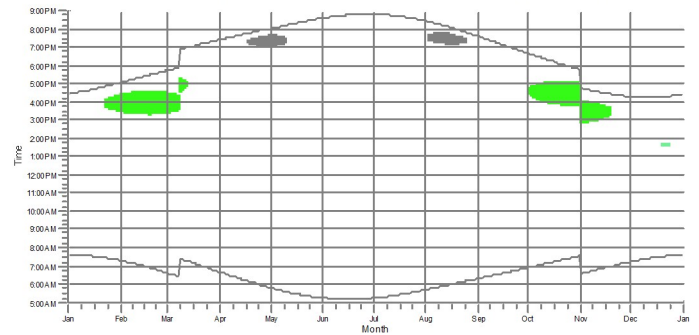
257: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (846)



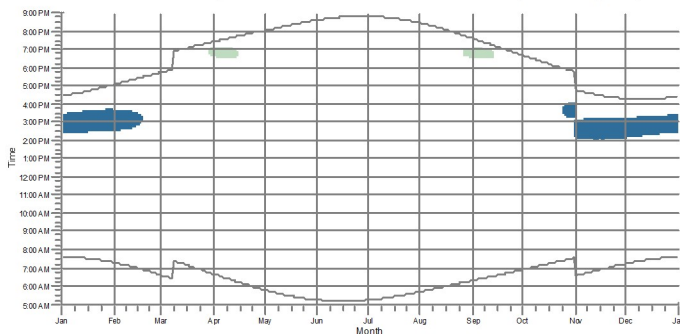
258: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (847)



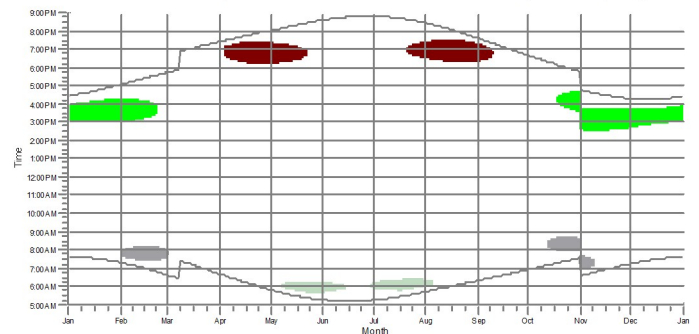
314: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (899)



315: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (900)



325: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (910)

**WTGs**

12: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (98)
 16: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (102)
 17: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (103)
 21: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (107)
 23: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (109)

24: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (110)
 25: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (111)
 28: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (114)
 29: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (115)
 32: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (118)

36: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (122)
 Alt 5: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (128)
 Alt 9: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (130)

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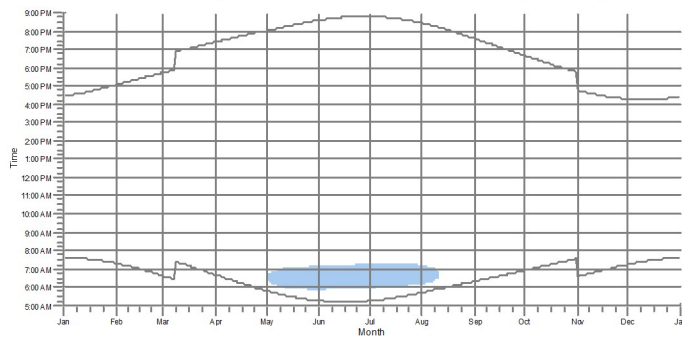
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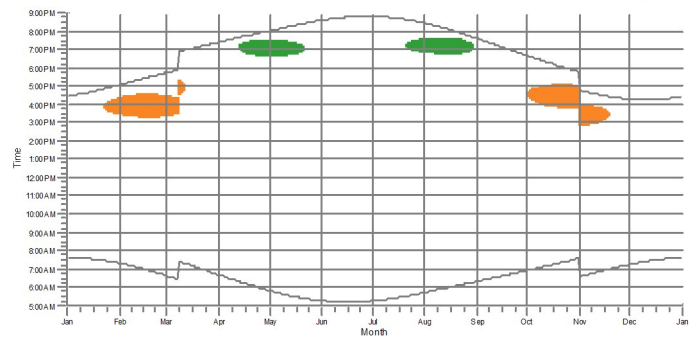
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SHADOW - Calendar, graphical

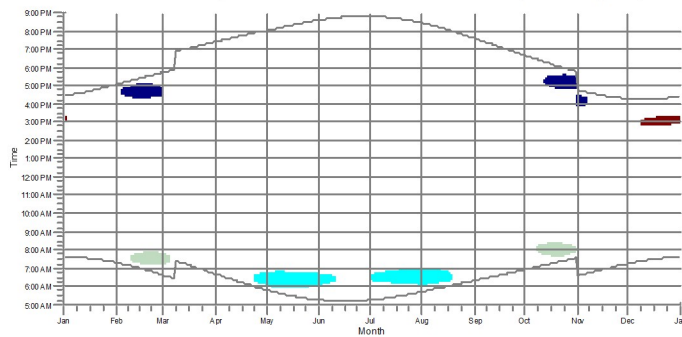
329: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (914)



471: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (952)



596: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (964)



WTGs

15: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (101)
 16: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (102)
 20: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (106)

21: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (107)
 22: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (108)
 27: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (113)

3: GAMESA G114 2100 114.0 IOI hub: 93.0 m (TOT: 150.0 m) (89)

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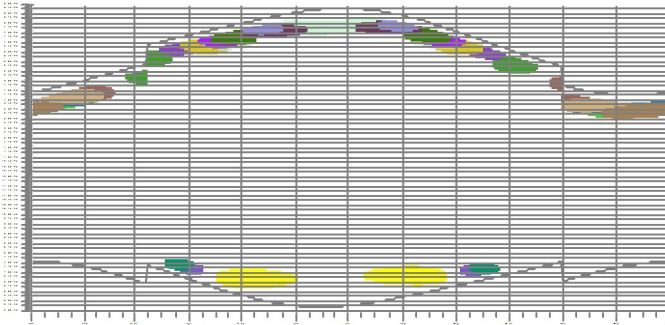
Jacob Runner / jrunner@edrdpc.com

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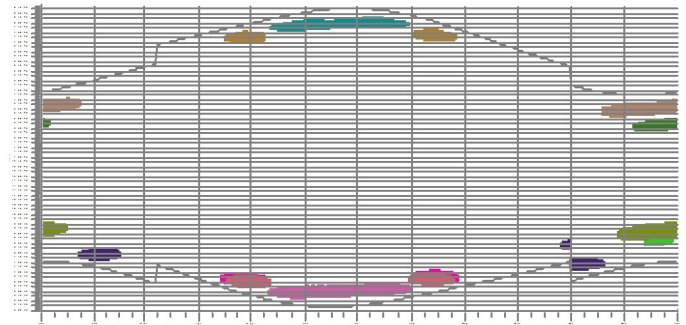
8/28/2015 10:41 AM/2.9.285

SHADOW - Calendar per WTG, graphical

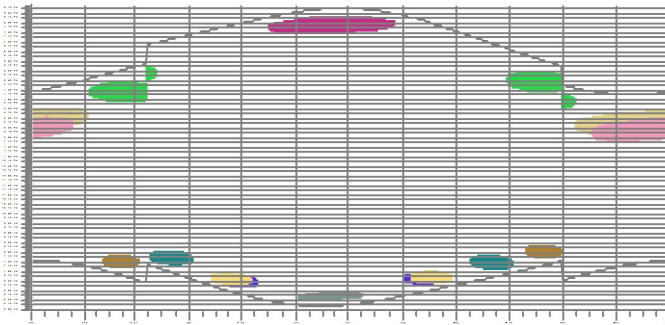
1: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (87)



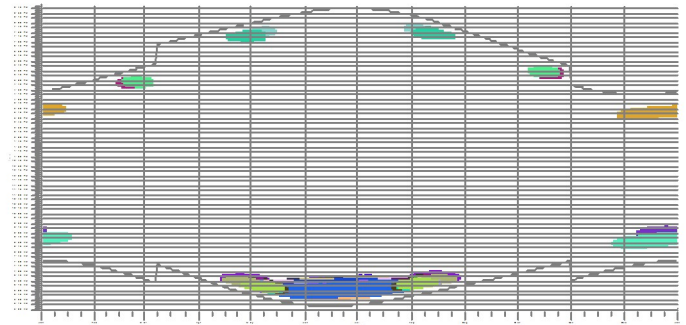
10: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (96)



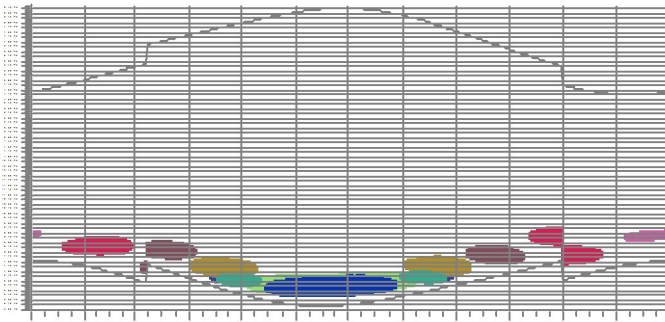
11: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (97)



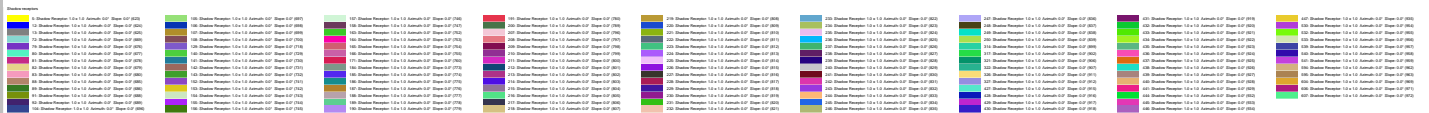
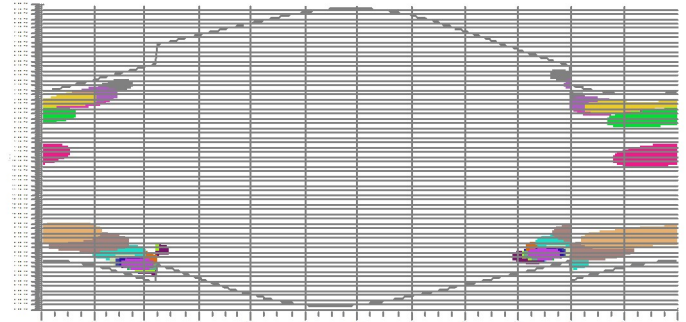
12: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (98)



13: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (99)



14: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (100)



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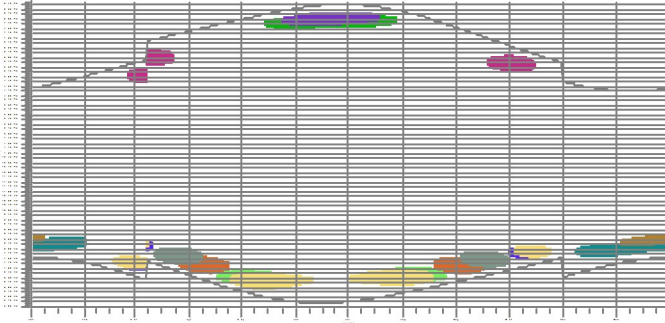
Jacob Runner / jrunner@edrdpc.com

Calculated:

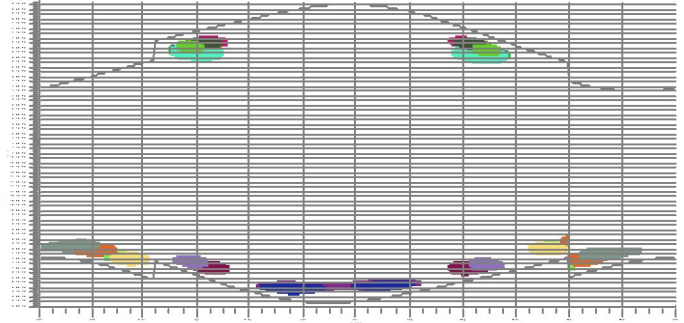
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SHADOW - Calendar per WTG, graphical

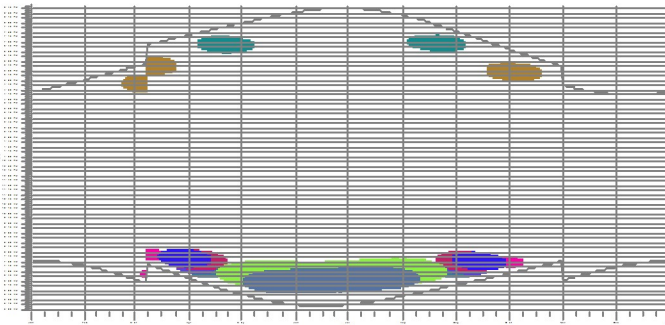
20: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (106)



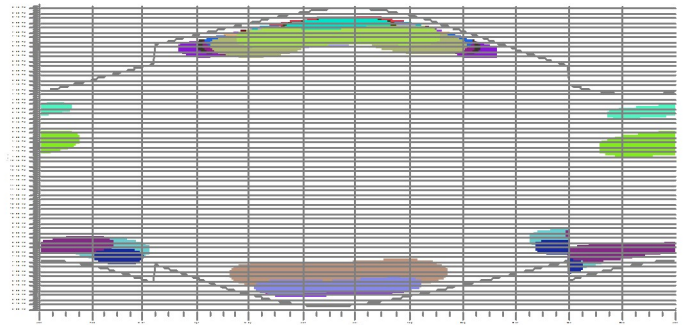
21: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (107)



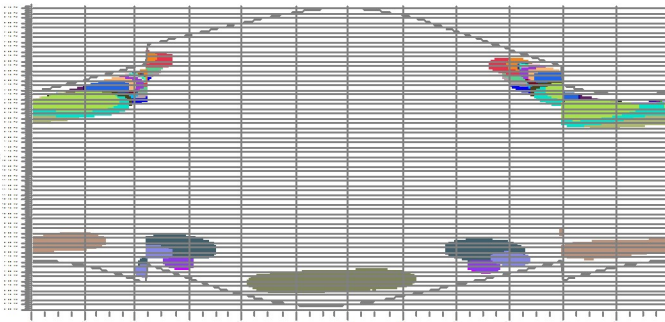
22: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (108)



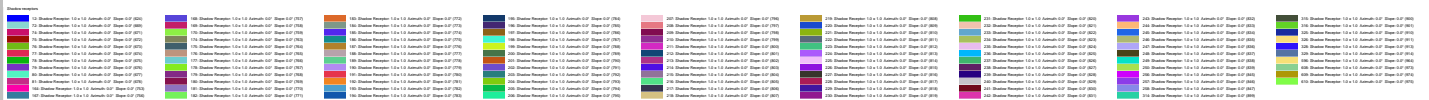
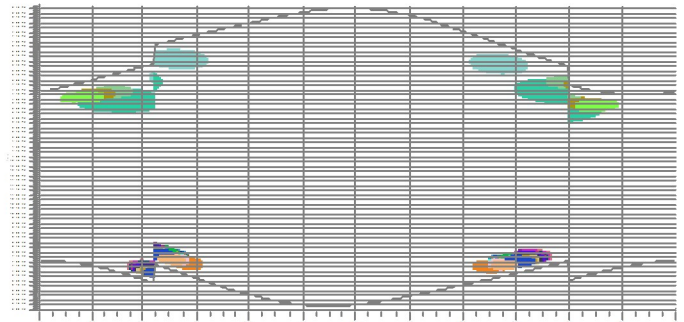
23: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (109)



24: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (110)



25: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (111)



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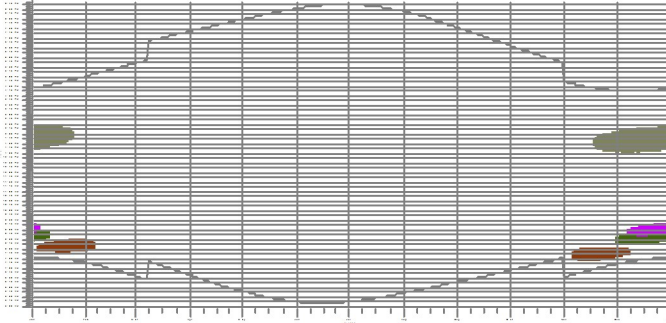
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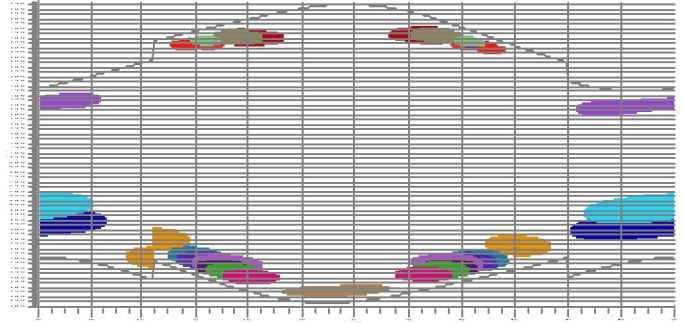
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SHADOW - Calendar per WTG, graphical

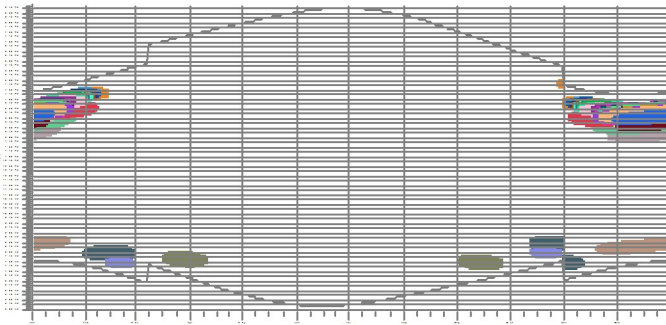
26: GAMESA G114 2100 114.0 !O!hub: 93.0 m (TOT: 150.0 m) (112)



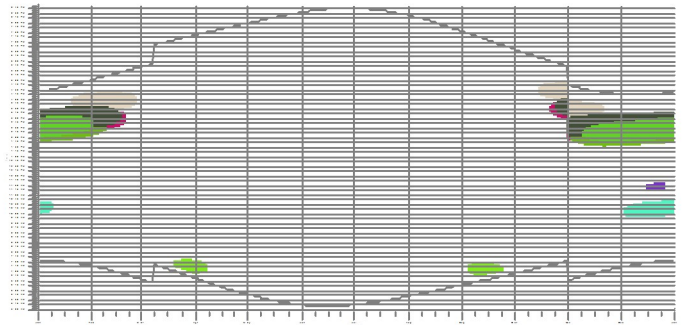
27: GAMESA G114 2100 114.0 !O!hub: 93.0 m (TOT: 150.0 m) (113)



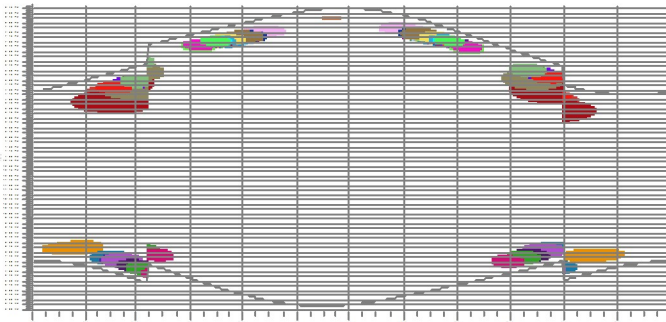
28: GAMESA G114 2100 114.0 !O!hub: 93.0 m (TOT: 150.0 m) (114)



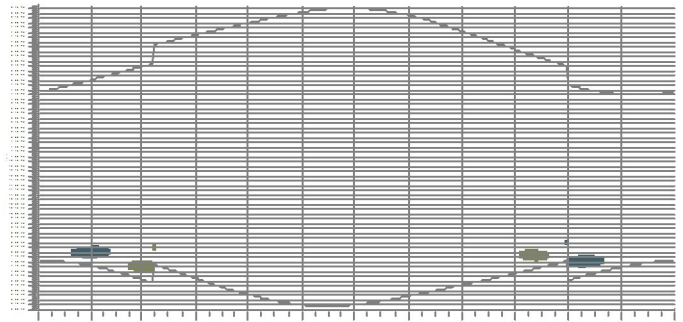
29: GAMESA G114 2100 114.0 !O!hub: 93.0 m (TOT: 150.0 m) (115)



3: GAMESA G114 2100 114.0 !O!hub: 93.0 m (TOT: 150.0 m) (89)



30: GAMESA G114 2100 114.0 !O!hub: 93.0 m (TOT: 150.0 m) (116)



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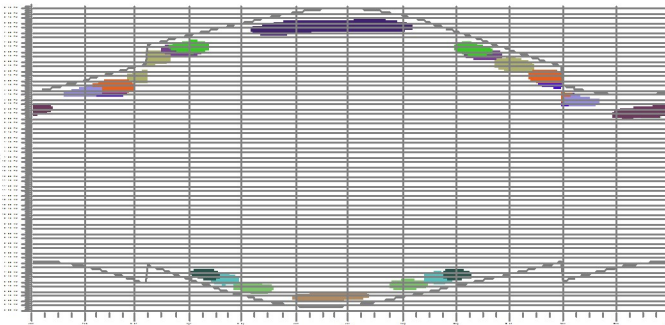
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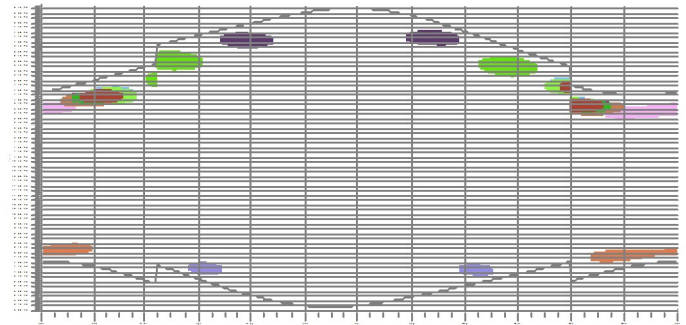
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SHADOW - Calendar per WTG, graphical

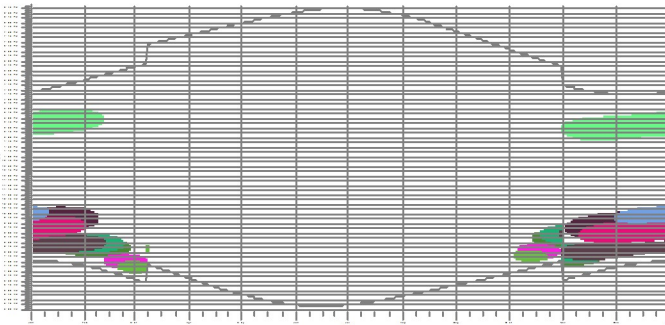
9: GAMESA G114 2100 114.0 !OI hub: 93.0 m (TOT: 150.0 m) (95)



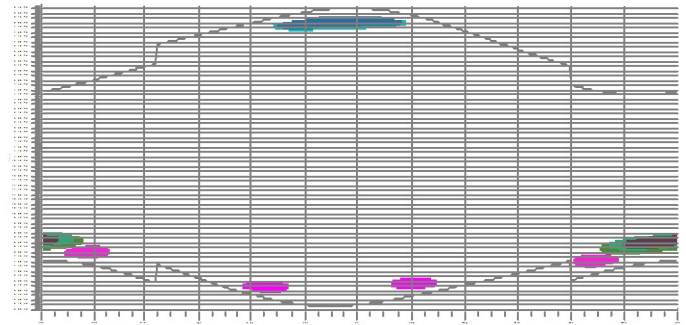
Alt 1: GAMESA G114 2100 114.0 !OI hub: 93.0 m (TOT: 150.0 m) (124)



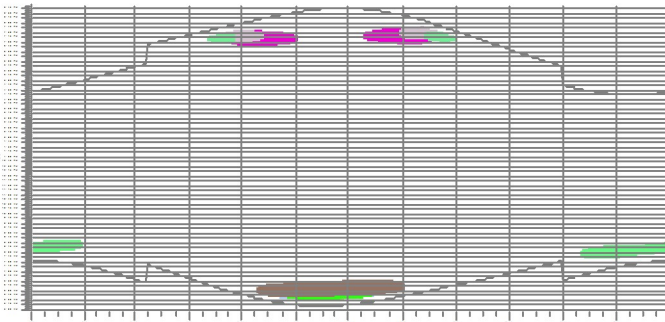
Alt 2: GAMESA G114 2100 114.0 !OI hub: 93.0 m (TOT: 150.0 m) (125)



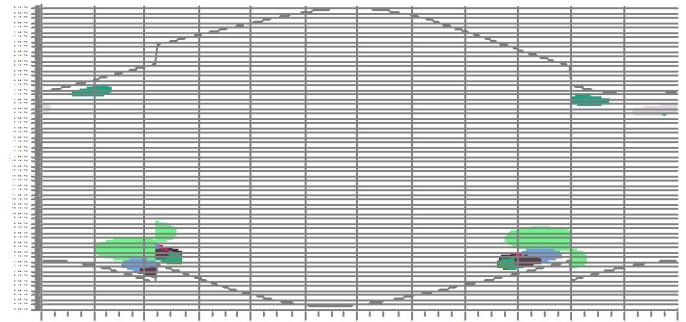
Alt 3: GAMESA G114 2100 114.0 !OI hub: 93.0 m (TOT: 150.0 m) (126)



Alt 4: GAMESA G114 2100 114.0 !OI hub: 93.0 m (TOT: 150.0 m) (127)



Alt 5: GAMESA G114 2100 114.0 !OI hub: 93.0 m (TOT: 150.0 m) (128)



95: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 96: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 97: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 98: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 99: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 100: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 101: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 102: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 103: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 104: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 105: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 106: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 107: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 108: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 109: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 110: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 111: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 112: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 113: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 114: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 115: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 116: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 117: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 118: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 119: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 120: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 121: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 122: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 123: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 124: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 125: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 126: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 127: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 128: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 129: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 130: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 131: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 132: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 133: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 134: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 135: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 136: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 137: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 138: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 139: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 140: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 141: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 142: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 143: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 144: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 145: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 146: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 147: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 148: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 149: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0° 150: Shadow Region 1.0 x 1.0 Azimuth 0.0° Slope 0.0°

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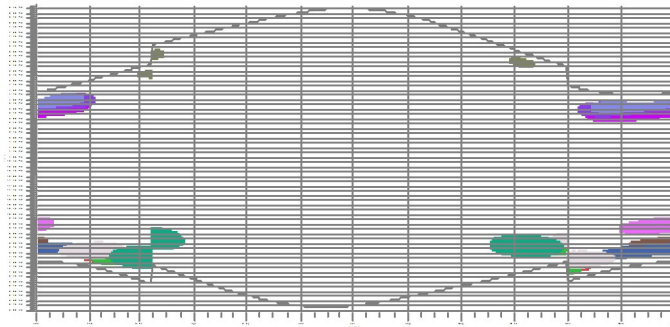
Jacob Runner / jrunner@edrdpc.com

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SHADOW - Calendar per WTG, graphical

Alt 9: GAMESA G114 2100 114.0 ! hub: 93.0 m (TOT: 150.0 m) (130)



Legend:

111 Shadow Periods 11 x 1.0 Shadow 0.0° Range 0.0° (100)	112 Shadow Periods 11 x 1.0 Shadow 0.0° Range 0.0° (100)	113 Shadow Periods 11 x 1.0 Shadow 0.0° Range 0.0° (100)	114 Shadow Periods 11 x 1.0 Shadow 0.0° Range 0.0° (100)	115 Shadow Periods 11 x 1.0 Shadow 0.0° Range 0.0° (100)	116 Shadow Periods 11 x 1.0 Shadow 0.0° Range 0.0° (100)	117 Shadow Periods 11 x 1.0 Shadow 0.0° Range 0.0° (100)
--	--	--	--	--	--	--