

Shadow Flicker Results (82.5 m diameter blades) - Receptor Locations

Map_ID	Site Address	Worst-Case Analysis ⁽¹⁾		Probable Case Scenario ⁽²⁾				Dates of Predicted Shadow Flicker	Land use	Approximate Distance to Wind Turbine 1	Approximate Distance to Wind Turbine 2
		Hours Per Year	Max minutes (min/day)	Hours Per Year	Max minutes (min/day)	% of Sun Hours/Year ⁽³⁾	% of Hours/Year ⁽⁴⁾				
FO	177 NEW HAVEN RD	49:39:00	43	24:49:30	21.5	0.557%	0.283%	1/1-1/29; 11/13-12/31	Residential	1554	2272
FP	177 NEW HAVEN RD	45:35:00	38	22:47:30	19	0.511%	0.260%	1/1-2/9; 11/2-12/31	Residential	1698	2320
C	213 NEW HAVEN RD	44:00:00	51	22:00:00	25.5	0.494%	0.251%	3/13-4/14; 8/29-10/1	Residential	1680	1181
DG	207 NEW HAVEN RD	40:46:00	45	20:23:00	22.5	0.457%	0.233%	1/21-2/24; 10/18-11/28	Commercial	1483	1409
DH	187 NEW HAVEN RD	38:58:00	47	19:29:00	23.5	0.437%	0.222%	2/8-3/11; 10/3-11/3	Residential	1331	1819
K	4 GEORGE ST	35:44:00	43	17:52:00	21.5	0.401%	0.204%	4/10-5/11; 8/1-9/2	Residential	2130	1477
AI	28 LEE RD	34:38:00	30	17:19:00	15	0.389%	0.198%	5/8-8/5	Residential	2959	2209
B	3 GEORGE ST	33:32:00	43	16:46:00	21.5	0.376%	0.191%	3/30-4/27; 8/15-9/14	Residential	2015	1430
L	6 GEORGE ST	30:16:00	40	15:08:00	20	0.339%	0.173%	4/6-5/4; 8/9-9/6	Residential	2193	1567
M	8 GEORGE ST	28:41:00	38	14:20:30	19	0.322%	0.164%	4/4-4/29; 6/8-7/4	Residential	2255	1655
FN	220 COOK RD	27:04:00	28	13:32:00	14	0.304%	0.154%	5/8-6/14; 6/26-8/5	Commercial	3139	2390
AB	27 LEE RD	25:23:00	29	12:41:30	14.5	0.284%	0.145%	4/10-4/30; 5/28-7/15; 8/13-9/2	Residential	2791	2191
O	5 GEORGE ST	25:18:00	39	12:39:00	19.5	0.284%	0.144%	3/24-4/17; 8/25-9/19	Residential	2148	1620
U	19 LEE RD	21:37	35	10:48:30	17.5	0.242%	0.123%	4/4-4/27; 8/16-9/8	Residential	2401	1818
AE	22 LEE RD	21:13	32	10:36:30	16	0.238%	0.121%	4/18-5/13; 7/31-8/25	Residential	2677	2012
T	17 LEE RD	20:00	34	10:00:00	17	0.224%	0.114%	3/26-4/17; 8/26-9/17	Residential	2361	1836
Z	21 LEE RD	19:51	33	9:55:30	16.5	0.223%	0.113%	4/8-5/1; 8/12-9/4	Residential	2544	1941
S	15 LEE RD	18:54	34	9:27:00	17	0.212%	0.108%	3/20-4/10; 9/2-9/23	Residential	2342	1864
AF	24 LEE RD	18:25	30	9:12:30	15	0.206%	0.105%	4/20-5/13; 7/31-8/23	Residential	2848	2186
DW	22 MEADOW LA	16:24	23	8:12:00	11.5	0.184%	0.094%	1/1-1/28; 11/14-12/13	Residential	2852	3020
DP	24 WOODCREST DR	15:20	25	7:40:00	12.5	0.172%	0.088%	1/14-2/6; 11/5-11/28	Residential	2557	2651
CR	16 WOODCREST DR	15:03	28	7:31:30	14	0.169%	0.086%	1/30-2/19; 10/22-11/12	Residential	2364	2330
DM	18 WOODCREST DR	15:03	27	7:31:30	13.5	0.169%	0.086%	1/26-2/15; 10/26-11/16	Residential	2407	2411
DN	20 WOODCREST DR	15:00	27	7:30:00	13.5	0.168%	0.086%	1/22-2/12; 10/30-11/20	Residential	2456	2492
DO	22 WOODCREST DR	14:50	26	7:25:00	13	0.166%	0.085%	1/18-2/8; 11/2-11/24	Residential	2530	2601
EY	36 WOODCREST DR	13:28	23	6:44:00	11.5	0.151%	0.077%	1/1-1/31; 11/11-12/9	Residential	2647	3129
CL	2 WOODCREST DR	13:09	28	6:34:30	14	0.147%	0.075%	2/26-3/15; 9/28-10/15	Residential	2501	2238
CK	11 HEMLOCK RD	12:11	27	6:05:30	13.5	0.136%	0.069%	2/28-3/16; 9/27-10/14	Residential	2592	2327
EL	47 WOODCREST DR	12:06	27	6:03:00	13.5	0.136%	0.069%	2/9-2/28; 10/14-11/1	Residential	2256	2578
VA	10 ROBINMARK RD	11:46	18	5:53:00	9	0.132%	0.067%	1/1-1/14; 11/28-11/30	Residential	3658	3908
AC	29 LEE RD	10:47	17	5:23:30	8.5	0.121%	0.061%	5/26-7/17	Residential	2965	2364
EM	51 WOODCREST DR	10:39	26	5:19:30	13	0.119%	0.061%	2/19-3/8; 10/6-10/23	Residential	2314	2557
CG	12 HEMLOCK RD	10:24	25	5:12:00	12.5	0.117%	0.059%	3/2-3/17; 9/27-10/12	Residential	2770	2507
CH	16 HEMLOCK RD	8:50	23	4:25:00	11.5	0.099%	0.050%	2/26-3/11; 10/3-10/16	Residential	2952	2740
CE	8 HEMLOCK RD	8:13	21	4:06:30	10.5	0.092%	0.047%	4/20-5/6; 8/6-8/23	Residential	2756	2406
CW	2 MEADOW LA	8:04	22	4:02:00	11	0.090%	0.046%	2/23-3/8; 10/6-10/19	Residential	3084	2908
CZ	8 MEADOW LA	7:56	21	3:58:00	10.5	0.089%	0.045%	2/12-2/26; 10/16-10/29	Residential	3133	3052
CX	4 MEADOW LA	7:55	22	3:57:30	11	0.089%	0.045%	2/19-3/4; 10/9-10/22	Residential	3110	2967
CY	6 MEADOW LA	7:45	21	3:52:30	10.5	0.087%	0.044%	2/17-3/2; 10/12-10/25	Residential	3143	3025
TP	20 ELAINE CT	7:01	12	3:30:30	6	0.079%	0.040%	1/1-1/11; 12/1-12/31	Residential	3902	4394
EA	28 WOODCREST DR	5:45	15	2:52:30	7.5	0.064%	0.033%	1/1-1/4; 12/8-12/31	Residential	2876	3178
ZU	45 BARBARA AVE	5:00	14	2:30:00	7	0.056%	0.029%	2/23-3/3; 3/18-3/25; 9/18-9/25; 10/10-10/18	Residential	4829	4717
ZT	46 BARBARA AVE	4:44	13	2:22:00	6.5	0.053%	0.027%	2/24-3/3; 3/18-3/25; 9/19/25; 10/10-10/18	Residential	4928	4814

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		Hours Per Year	Max minutes (min/day)	Hours Per Year	Max minutes (min/day)	% of Sun Hours/Year ⁽³⁾	% of Hours/Year ⁽⁴⁾				
ZS	47 BARBARA AVE	4:29	13	2:14:30	6.5	0.050%	0.025%	2/25-3/4; 3/18-3/25; 9/19-9/25; 10/9-10/17	Residential	5080	4962
ZZ	18 DEERFIELD DR	3:46	15	1:53:00	7.5	0.042%	0.021%	2/21-3/2; 10/12-10/21	Residential	4444	4348
IN	34 VALLEY LA	3:38	15	1:49:00	7.5	0.041%	0.021%	2/26-3/7; 10/7-10/15	Residential	4471	4328
ZD	61 BARBARA AVE	3:31	14	1:45:30	7	0.039%	0.020%	2/15-2/23; 10/18-10/27	Residential	4623	4588
ZY	17 VALLEY LN	3:30	14	1:45:00	7	0.039%	0.020%	2/22-3/3; 10/11-10-19	Residential	4530	4425
WV	138 HOWARD AVE	3:28	13	1:44:00	6.5	0.039%	0.020%	1/30-2/08; 11/3-11/12	Residential	4969	5070
ZR	43 BARBARA AVE	3:26	14	1:43:00	7	0.039%	0.020%	2/20-2/28; 10/13-10/22;	Residential	4590	4508
WK	125 HOWARD AVE	3:25	13	1:42:30	6.5	0.038%	0.019%	1/28-2/7; 11/4-11/14	Residential	5040	5150
ZX	VALLEY LN	3:21	14	1:40:30	7	0.037%	0.019%	3/2-3/10; 10/4-10/12	Residential	4637	4465
WM	ENGLEWOOD AVE	3:20	13	1:40:00	6.5	0.037%	0.019%	1/26-2/5; 11/6-11/16	Residential	5160	5289
WL	123 ENGLEWOOD AVE	3:17	13	1:38:30	6.5	0.037%	0.019%	1/28-2/6; 11/5-11/14	Residential	5107	5223
WW	106 HOWARD AVE	3:16	13	1:38:00	6.5	0.037%	0.019%	2/1-2/10; 11/1-11/10	Residential	5047	5132
ZW	15 VALLEY LA	3:16	14	1:38:00	7	0.037%	0.019%	2/24-3/4; 10/10-10/18;	Residential	4696	4564
WQ	124 HOWARD AVE	3:13	13	1:36:30	6.5	0.036%	0.018%	1/30-2/8; 11/3-11/12	Residential	5104	5204
ZV	16 VALLEY LA	3:13	14	1:36:30	7	0.036%	0.018%	2/24-3/4; 3/18-3/25; 9/18-9/25; 10/10-10/18	Residential	4748	4634
WN	110 ENGLEWOOD AVE	3:08	12	1:34:00	6	0.035%	0.018%	1/27-2/5; 11/5-11/15	Residential	5212	5334
WP	108 ENGLEWOOD AVE	3:03	13	1:31:30	6.5	0.034%	0.017%	1/30-2/08; 11/3-11/12	Residential	5181	5282
WO	109 ENGLEWOOD AVE	2:58	12	1:29:00	6	0.033%	0.017%	1/28-2/06; 11/4-11/14	Residential	5277	5390
ZE	140 BOYD DR	2:57	13	1:28:30	6.5	0.033%	0.017%	2/21-3-1; 10/13-10/21	Residential	4994	4911
^G	43 CANDEE RD	2:50	11	1:25:00	5.5	0.032%	0.016%	5/9-5/19; 6/16; 6/20-6/22; 6/27; 7/24-8/4;	Commercial	6163	5464
LM	61 EDWARDS ROAD	2:45	11	1:22:30	5.5	0.031%	0.016%	5/6-5/15; 7/29-8/6	Residential	6395	6221
YL	48 BARBARA AVE	2:38	13	1:19:00	6.5	0.030%	0.015%	2/20-2/027; 10/14-10/21	Residential	5278	5206
^Q	43 CANDEE RD	2:17	10	1:08:30	5	0.025%	0.013%	5/4-5/13; 7/31-8/9;	Commercial	6250	5578
TY	16 STEPHEN CT	1:43	8	0:51:30	4	0.019%	0.010%	1/28-2/5; 11/6-11/14	Residential	4294	4625
GK	26 COACHLIGHT CIR	0:57	6	0:28:30	3	0.011%	0.005%	2/18-2/23; 10/18-10/24	Residential	4231	4704
FY	15 COACHLIGHT CIR	0:54	6	0:27:00	3	0.010%	0.005%	2/12-2/18-; 10/24-10/29	Residential	4915	5452
GL	24 COACHLIGHT CIR	0:54	6	0:27:00	3	0.010%	0.005%	2/18-2/23; 10/18-10/24	Residential	4379	4858
FX	11 COACHLIGHT CIR	0:53	6	0:26:30	3	0.010%	0.005%	2/12-2/17; 10/24-10-30	Residential	5061	5602
GM	22 COACHLIGHT CIR	0:51	6	0:25:30	3	0.009%	0.005%	2/18-2/23; 10/19-10/24	Residential	4548	5034
GN	20 COACHLIGHT CIR	0:45	5	0:22:30	2.5	0.008%	0.004%	2/18-2/22; 10/19-10/24	Residential	4684	5174
GP	16 COACHLIGHT CIR	0:43	5	0:21:30	2.5	0.008%	0.004%	2/18-2/23; 10/19-10/24	Residential	4974	5465
GO	18 COACHLIGHT CIR	0:42	5	0:21:00	2.5	0.008%	0.004%	2/17-2/22; 10/20-10/24	Residential	4822	5315
GQ	12 COACHLIGHT CIR	0:40	5	0:20:00	2.5	0.007%	0.004%	2/17-2/22; 10/20-10/24	Residential	5088	5588
AN	7 RADIO TOWER RD	0:28	5	0:14:00	2.5	0.005%	0.003%	6/18-6/24	Residential	2912	2066

Notes: ⁽¹⁾ Calculations developed from WindPRO SHADOW module using conservative simplifications and assumptions, including but not limited to: the sun is always shining, the wind is always blowing, the blades are always turning and receptors are perpendicular to the turbines.

⁽²⁾ Calculations based on incorporation of 50% reduction value to account for operational and/or climate-related conditions that limit those times when shadows may be cast.

⁽³⁾ Calculations of potential sun hours per year based on WindPRO Calendar values (4,457 hours annually, worst-case).

⁽⁴⁾ Calculations of hours per year based on maximum of 8,760 hours per year.