

APPENDIX B – SHADOW FLICKER MODEL CALCULATIONS

Table 5 - Shadow flicker results (hours/year), conservative case

Receptor ID	X	Y	Status	Vestas V110	GE 2.5-116	Gamesa G126	Vestas V136
A	590215	4984375	Not Signed	0.0	0.0	0.0	0.0
B	592905	4982767	Not Signed	0.0	0.0	0.0	0.0
C	593621	4982899	Not Signed	0.0	0.0	0.0	0.0
D	594438	4982965	Not Signed	0.0	0.0	0.0	0.0
E	594441	4982938	Not Signed	0.0	0.0	0.0	0.0
F	594693	4983210	Not Signed	0.0	0.0	0.0	0.0
G	594519	4983773	Not Signed	0.0	0.0	0.0	0.0
H	596400	4982305	Not Signed	0.0	0.0	0.0	0.0
I	592936	4984691	Not Signed	0.0	0.0	0.0	0.0
J	595192	4987670	Signed	27.0	32.5	35.3	39.2
K	595235	4987682	Signed	23.1	28.4	30.4	34.0
L	592572	4987591	Not Signed	0.0	0.0	0.0	0.0
M	591745	4987550	Not Signed	0.0	0.0	0.0	0.0
N	591250	4987761	Not Signed	21.4	24.5	26.0	28.2
O	591309	4985133	Not Signed	0.0	0.0	0.0	0.0
P	591254	4985097	Not Signed	0.0	0.0	0.0	0.0
Q	588307	4990356	Signed	67.6	75.0	80.7	59.3
R	588363	4990439	Signed	47.7	58.9	63.8	43.4
S	589765	4989174	Signed	41.1	48.5	52.1	42.6
T	590678	4989108	Not Signed	9.5	12.3	13.0	14.6
U	592788	4990118	Signed	62.1	77.4	82.7	52.7
V	591434	4990459	Not Signed	46.6	56.2	29.2	22.7
W	595290	4990577	Signed	72.9	91.5	100.0	65.2
X	586483	4986148	Not Signed	0.0	0.0	0.0	0.0
Y	589053	4995011	Signed	151.2	178.0	198.3	219.0
Z	589810	4996269	Signed	40.2	50.1	54.6	61.1
AA	589479	4996382	Not Signed	13.0	16.3	17.4	19.3
AB	592456	4995058	Not Signed	0.0	0.0	0.0	0.0
AC	586123	4988414	Not Signed	57.6	53.1	6.5	0.0
AD	585759	4988139	Not Signed	25.1	12.3	0.0	0.0
AE	586437	4993856	Signed	61.1	72.2	77.8	37.2



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Receptor ID	X	Y	Status	Vestas V110	GE 2.5-116	Gamesa G126	Vestas V136
AF	596671	4988021	Signed	5.5	25.7	7.5	8.2
AG	597128	4988613	Not Signed	0.0	14.2	7.4	8.2
AH	597790	4987894	Signed	0.0	135.4	0.0	0.0
AI	594515	4984683	Not Signed	2.9	3.9	4.0	4.5
AJ	597595	4984415	Signed	0.0	0.0	0.0	0.0
AK	597745	4984180	Signed	54.4	0.0	0.0	0.0
AL	597664	4989856	Not Signed	27.3	0.0	35.3	0.0
AM	599366	4989263	Not Signed	23.7	0.0	30.2	0.0
AN	600502	4989799	Not Signed	0.0	0.0	0.0	0.0
AO	600068	4991329	Signed	15.4	19.6	20.8	23.2
AP	600593	4992468	Signed	100.7	12.6	13.4	14.6
AQ	602318	4991733	Not Signed	0.0	0.0	0.0	0.0
AR	601265	4992656	Signed	15.9	0.0	0.0	0.0
AS	602397	4994189	Not Signed	0.0	0.0	0.0	0.0
AT	600784	4994037	Signed	65.2	0.0	0.0	0.0
AU	599752	4994156	Not Signed	36.8	0.0	0.0	0.0
AV	599532	4993077	Signed	43.7	0.0	0.0	0.0
AW	597589	4993202	Signed	255.0	9.6	0.0	0.0
AX	595549	4994075	Not Signed	16.2	0.0	0.0	0.0
AY	590973	5000013	Signed	128.3	0.0	0.0	0.0
AZ	591169	4999757	Signed	69.7	32.2	33.7	0.0
BA	593071	4999055	Signed	34.8	39.8	42.7	27.8
BB	595173	4999095	Signed	65.8	78.8	92.4	110.6
BC	595106	4999099	Signed	60.6	68.5	77.9	96.8
BD	595405	4996510	Not Signed	23.4	26.5	28.0	30.2
BE	595849	4999735	Not Signed	5.3	6.6	7.0	7.8
BF	597376	4999189	Not Signed	0.0	0.0	0.0	0.0
BG	596304	4998805	Not Signed	32.0	38.1	40.2	43.6
BH	588528	4990460	Signed	31.5	39.1	42.0	34.7
BI	596208	4981797	Signed	0.0	0.0	0.0	0.0
BJ	597641	4985322	Not Signed	8.7	11.5	12.1	13.4
BK	586275	4988055	Signed	79.3	93.3	13.7	0.0
BL	594426	4990982	Signed	247.1	223.1	267.2	120.6
BM	594454	4984843	Not Signed	2.4	3.3	3.4	3.8
BN	586113	4992710	Not Signed	19.7	25.1	27.0	30.3
BO	589139	4994987	Signed	172.8	212.3	229.0	252.9
BP	596006	4997304	Not Signed	20.2	24.1	26.1	28.9



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Receptor ID	X	Y	Status	Vestas V110	GE 2.5-116	Gamesa G126	Vestas V136
BQ	593050	4999084	Signed	34.9	42.9	46.0	26.3
BR	593008	4999047	Signed	35.1	42.9	46.1	23.5

Table 6 - Shadow flicker model results (hours/year), expected case

Receptor ID	X	Y	Status	Vestas V110	GE 2.5-116	Gamesa G126	Vestas V136
A	590215	4984375	Not Signed	0.0	0.0	0.0	0.0
B	592905	4982767	Not Signed	0.0	0.0	0.0	0.0
C	593621	4982899	Not Signed	0.0	0.0	0.0	0.0
D	594438	4982965	Not Signed	0.0	0.0	0.0	0.0
E	594441	4982938	Not Signed	0.0	0.0	0.0	0.0
F	594693	4983210	Not Signed	0.0	0.0	0.0	0.0
G	594519	4983773	Not Signed	0.0	0.0	0.0	0.0
H	596400	4982305	Not Signed	0.0	0.0	0.0	0.0
I	592936	4984691	Not Signed	0.0	0.0	0.0	0.0
J	595192	4987670	Signed	10.1	12.2	13.3	14.8
K	595235	4987682	Signed	8.6	10.6	11.4	12.8
L	592572	4987591	Not Signed	0.0	0.0	0.0	0.0
M	591745	4987550	Not Signed	0.0	0.0	0.0	0.0
N	591250	4987761	Not Signed	10.0	11.4	12.1	13.1
O	591309	4985133	Not Signed	0.0	0.0	0.0	0.0
P	591254	4985097	Not Signed	0.0	0.0	0.0	0.0
Q	588307	4990356	Signed	27.5	30.4	32.7	26.8
R	588363	4990439	Signed	18.1	22.4	24.2	18.7
S	589765	4989174	Signed	14.5	17.3	18.5	13.6
T	590678	4989108	Not Signed	3.7	4.8	5.0	5.7
U	592788	4990118	Signed	20.0	24.9	26.6	15.2
V	591434	4990459	Not Signed	15.0	18.1	10.5	7.8
W	595290	4990577	Signed	30.4	38.2	41.8	29.2
X	586483	4986148	Not Signed	0.0	0.0	0.0	0.0
Y	589053	4995011	Signed	63.2	73.4	82.2	90.6
Z	589810	4996269	Signed	14.8	18.6	20.2	22.6
AA	589479	4996382	Not Signed	4.7	5.9	6.3	7.0
AB	592456	4995058	Not Signed	0.0	0.0	0.0	0.0
AC	586123	4988414	Not Signed	21.9	19.0	2.5	0.0
AD	585759	4988139	Not Signed	9.6	4.8	0.0	0.0
AE	586437	4993856	Signed	23.9	28.2	30.4	13.6
AF	596671	4988021	Signed	2.4	10.2	3.3	3.6
AG	597128	4988613	Not Signed	0.0	4.9	3.4	3.8
AH	597790	4987894	Signed	0.0	60.2	0.0	0.0
AI	594515	4984683	Not Signed	1.1	1.5	1.6	1.7



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Receptor ID	X	Y	Status	Vestas V110	GE 2.5-116	Gamesa G126	Vestas V136
AJ	597595	4984415	Signed	0.0	0.0	0.0	0.0
AK	597745	4984180	Signed	16.2	0.0	0.0	0.0
AL	597664	4989856	Not Signed	9.4	0.0	12.3	0.0
AM	599366	4989263	Not Signed	11.1	0.0	14.1	0.0
AN	600502	4989799	Not Signed	0.0	0.0	0.0	0.0
AO	600068	4991329	Signed	7.0	8.9	9.5	10.5
AP	600593	4992468	Signed	37.3	3.6	3.8	4.2
AQ	602318	4991733	Not Signed	0.0	0.0	0.0	0.0
AR	601265	4992656	Signed	5.8	0.0	0.0	0.0
AS	602397	4994189	Not Signed	0.0	0.0	0.0	0.0
AT	600784	4994037	Signed	18.7	0.0	0.0	0.0
AU	599752	4994156	Not Signed	13.8	0.0	0.0	0.0
AV	599532	4993077	Signed	15.5	0.0	0.0	0.0
AW	597589	4993202	Signed	81.2	2.9	0.0	0.0
AX	595549	4994075	Not Signed	5.9	0.0	0.0	0.0
AY	590973	5000013	Signed	50.3	0.0	0.0	0.0
AZ	591169	4999757	Signed	23.7	10.8	11.3	0.0
BA	593071	4999055	Signed	11.8	13.7	14.7	10.2
BB	595173	4999095	Signed	23.3	27.2	32.7	39.2
BC	595106	4999099	Signed	18.3	20.8	23.7	30.7
BD	595405	4996510	Not Signed	10.0	11.2	11.9	12.8
BE	595849	4999735	Not Signed	1.5	1.9	2.0	2.2
BF	597376	4999189	Not Signed	0.0	0.0	0.0	0.0
BG	596304	4998805	Not Signed	9.5	11.3	11.9	12.9
BH	588528	4990460	Signed	11.8	14.6	15.7	14.1
BI	596208	4981797	Signed	0.0	0.0	0.0	0.0
BJ	597641	4985322	Not Signed	3.7	4.8	5.1	5.7
BK	586275	4988055	Signed	32.3	38.1	5.3	0.0
BL	594426	4990982	Signed	101.0	90.6	110.0	44.6
BM	594454	4984843	Not Signed	0.9	1.3	1.3	1.5
BN	586113	4992710	Not Signed	7.7	9.8	10.5	11.8
BO	589139	4994987	Signed	72.2	87.6	94.6	104.1
BP	596006	4997304	Not Signed	7.8	9.3	10.1	11.2
BQ	593050	4999084	Signed	11.8	14.5	15.6	9.6
BR	593008	4999047	Signed	11.7	14.4	15.4	8.5