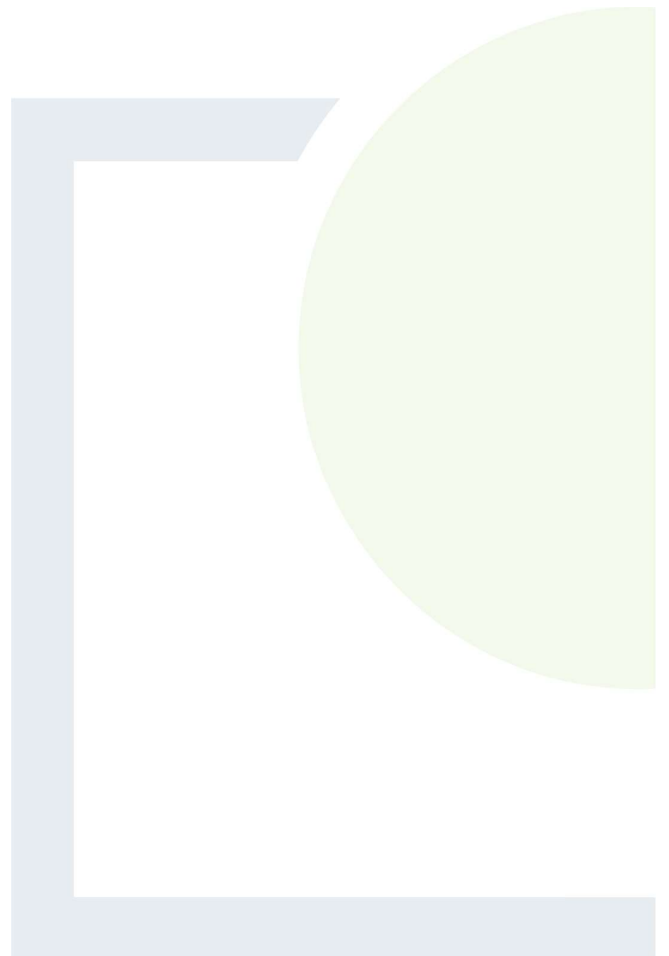




CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

# Appendix 12.1

Shadow Flicker Modelling Input Data



Appendix 12-1: Shadow Flicker Modelling Input Data

Receptor ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	Window Offset from Building Centre - X Axis (m)	Window Offset from Building Centre - Y Axis (m)	Window Width (m)	Window Height (m)	Window Centre Height Above Ground (m)	Direction from North (°)
1	534395	582655	1-1	-6	2	6	2	1.1	286
			1-2	1	3	13	2	1.1	16
			1-3	6	-2	6	2	1.1	106
			1-4	-1	-3	13	2	1.1	196
2	534466	585170	2-1	-5	2	11	2	1.1	291
			2-2	2	5	11	2	1.1	21
			2-3	5	-2	11	2	1.1	111
			2-4	-2	-5	11	2	1.1	201
3	534103	582603	3-1	0	4	14	2	1.1	359
			3-2	7	0	9	2	1.1	89
			3-3	0	-4	14	2	1.1	179
			3-4	-7	0	9	2	1.1	269
4	534100	582164	4-1	-1	3	12	2	1.1	348
			4-2	6	1	6	2	1.1	78
			4-3	1	-3	12	2	1.1	168
			4-4	-6	-1	6	2	1.1	258
5	534471	582544	5-1	-1	5	9	2	1.1	352
			5-2	4	1	11	2	1.1	82
			5-3	1	-5	9	2	1.1	172
			5-4	-4	-1	11	2	1.1	262
6	534569	582425	6-1	-7	0	9	2	1.1	271
			6-2	0	4	14	2	1.1	1
			6-3	7	0	9	2	1.1	91
			6-4	0	-4	14	2	1.1	181
7	535095	581596	7-1	-4	10	10	2	1.1	336
			7-2	5	2	22	2	1.1	66
			7-3	4	-10	10	2	1.1	156
			7-4	-5	-2	22	2	1.1	246
8	534015	582195	8-1	-9	3	12	2	1.1	288
			8-2	2	6	19	2	1.1	18
			8-3	9	-3	12	2	1.1	108
			8-4	-2	-6	19	2	1.1	198
9	535075	581629	9-1	-6	9	9	2	1.1	325
			9-2	4	3	21	2	1.1	55
			9-3	6	-9	9	2	1.1	145
			9-4	-4	-3	21	2	1.1	235
10	534957	582291	10-1	-2	8	13	2	1.1	345
			10-2	6	2	17	2	1.1	75
			10-3	2	-8	13	2	1.1	165
			10-4	-6	-2	17	2	1.1	255
11	534290	582662	11-1	-5	7	8	2	1.1	324
			11-2	3	2	18	2	1.1	54
			11-3	5	-7	8	2	1.1	144
			11-4	-3	-2	18	2	1.1	234

Receptor ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	Window Offset from Building Centre - X Axis (m)	Window Offset from Building Centre - Y Axis (m)	Window Width (m)	Window Height (m)	Window Centre Height Above Ground (m)	Direction from North (°)
12	534152	582571	12-1	-7	3	9	2	1.1	295
			12-2	2	4	15	2	1.1	25
			12-3	7	-3	9	2	1.1	115
			12-4	-2	-4	15	2	1.1	205
13	534649	582434	13-1	0	3	12	2	1.1	355
			13-2	6	1	6	2	1.1	85
			13-3	0	-3	12	2	1.1	175
			13-4	-6	-1	6	2	1.1	265
14	534284	585045	14-1	-1	3	11	2	1.1	334
			14-2	5	2	6	2	1.1	64
			14-3	1	-3	11	2	1.1	154
			14-4	-5	-2	6	2	1.1	244
15	533686	582614	15-1	-9	1	12	2	1.1	278
			15-2	1	6	18	2	1.1	8
			15-3	9	-1	12	2	1.1	98
			15-4	-1	-6	18	2	1.1	188
16	536871	581532	16-1	-7	1	11	2	1.1	280
			16-2	1	5	14	2	1.1	10
			16-3	7	-1	11	2	1.1	100
			16-4	-1	-5	14	2	1.1	190
17	537693	582520	17-1	-2	4	21	2	1.1	330
			17-2	9	5	9	2	1.1	60
			17-3	2	-4	21	2	1.1	150
			17-4	-9	-5	9	2	1.1	240
18	537912	582691	18-1	-4	3	18	2	1.1	306
			18-2	5	7	11	2	1.1	36
			18-3	4	-3	18	2	1.1	126
			18-4	-5	-7	11	2	1.1	216
19	536667	581388	19-1	-1	8	11	2	1.1	350
			19-2	5	1	17	2	1.1	80
			19-3	1	-8	11	2	1.1	170
			19-4	-5	-1	17	2	1.1	260
20	536990	581642	20-1	-6	4	14	2	1.1	302
			20-2	4	6	14	2	1.1	32
			20-3	6	-4	14	2	1.1	122
			20-4	-4	-6	14	2	1.1	212
21	537229	582067	21-1	-4	3	15	2	1.1	310
			21-2	5	6	10	2	1.1	40
			21-3	4	-3	15	2	1.1	130
			21-4	-5	-6	10	2	1.1	220
22	538055	582785	22-1	-3	4	13	2	1.1	325
			22-2	5	4	10	2	1.1	55
			22-3	3	-4	13	2	1.1	145
			22-4	-5	-4	10	2	1.1	235
23	538010	582850	23-1	-2	6	11	2	1.1	341
			23-2	5	2	12	2	1.1	71

Receptor ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	Window Offset from Building Centre - X Axis (m)	Window Offset from Building Centre - Y Axis (m)	Window Width (m)	Window Height (m)	Window Centre Height Above Ground (m)	Direction from North (°)
			23-3	2	-6	11	2	1.1	161
			23-4	-5	-2	12	2	1.1	251
24	537075	584592	24-1	-7	2	9	2	1.1	283
			24-2	1	4	15	2	1.1	13
			24-3	7	-2	9	2	1.1	103
			24-4	-1	-4	15	2	1.1	193
25	538205	584205	25-1	-7	1	15	2	1.1	280
			25-2	1	7	14	2	1.1	10
			25-3	7	-1	15	2	1.1	100
			25-4	-1	-7	14	2	1.1	190
26	538160	584233	26-1	-7	2	10	2	1.1	288
			26-2	2	5	14	2	1.1	18
			26-3	7	-2	10	2	1.1	108
			26-4	-2	-5	14	2	1.1	198
27	535906	585354	27-1	-7	5	10	2	1.1	306
			27-2	3	4	17	2	1.1	36
			27-3	7	-5	10	2	1.1	126
			27-4	-3	-4	17	2	1.1	216
28	538008	582737	28-1	-1	5	17	2	1.1	351
			28-2	8	1	10	2	1.1	81
			28-3	1	-5	17	2	1.1	171
			28-4	-8	-1	10	2	1.1	261
29	537977	583007	29-1	-2	5	24	2	1.1	339
			29-2	11	4	11	2	1.1	69
			29-3	2	-5	24	2	1.1	159
			29-4	-11	-4	11	2	1.1	249
30	537610	582487	30-1	-2	5	19	2	1.1	342
			30-2	9	3	10	2	1.1	72
			30-3	2	-5	19	2	1.1	162
			30-4	-9	-3	10	2	1.1	252
31	537410	582459	31-1	-3	4	15	2	1.1	327
			31-2	6	4	10	2	1.1	57
			31-3	3	-4	15	2	1.1	147
			31-4	-6	-4	10	2	1.1	237
32	536334	581252	32-1	-4	8	18	2	1.1	332
			32-2	8	4	18	2	1.1	62
			32-3	4	-8	18	2	1.1	152
			32-4	-8	-4	18	2	1.1	242
33	536370	581205	33-1	-7	3	10	2	1.1	291
			33-2	2	5	15	2	1.1	21
			33-3	7	-3	10	2	1.1	111
			33-4	-2	-5	15	2	1.1	201
34	536394	581108	34-1	-1	6	9	2	1.1	350
			34-2	4	1	13	2	1.1	80
			34-3	1	-6	9	2	1.1	170
			34-4	-4	-1	13	2	1.1	260

Receptor ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	Window Offset from Building Centre - X Axis (m)	Window Offset from Building Centre - Y Axis (m)	Window Width (m)	Window Height (m)	Window Centre Height Above Ground (m)	Direction from North (°)
35	536864	581431	35-1	-1	4	12	2	1.1	344
			35-2	6	2	8	2	1.1	74
			35-3	1	-4	12	2	1.1	164
			35-4	-6	-2	8	2	1.1	254
36	536593	581595	36-1	-1	4	12	2	1.1	353
			36-2	6	1	9	2	1.1	83
			36-3	1	-4	12	2	1.1	173
			36-4	-6	-1	9	2	1.1	263
37	536682	581484	37-1	-3	5	23	2	1.1	332
			37-2	10	5	12	2	1.1	62
			37-3	3	-5	23	2	1.1	152
			37-4	-10	-5	12	2	1.1	242
38	537183	581881	38-1	-4	3	12	2	1.1	307
			38-2	4	5	9	2	1.1	37
			38-3	4	-3	12	2	1.1	127
			38-4	-4	-5	9	2	1.1	217
39	537234	582000	39-1	-4	3	13	2	1.1	304
			39-2	4	5	10	2	1.1	34
			39-3	4	-3	13	2	1.1	124
			39-4	-4	-5	10	2	1.1	214
40	537788	582572	40-1	-1	4	15	2	1.1	340
			40-2	7	3	8	2	1.1	70
			40-3	1	-4	15	2	1.1	160
			40-4	-7	-3	8	2	1.1	250
41	537953	582705	41-1	-6	7	22	2	1.1	320
			41-2	8	7	18	2	1.1	50
			41-3	6	-7	22	2	1.1	140
			41-4	-8	-7	18	2	1.1	230
42	537882	583153	42-1	-2	7	6	2	1.1	344
			42-2	3	1	15	2	1.1	74
			42-3	2	-7	6	2	1.1	164
			42-4	-3	-1	15	2	1.1	254
43	537905	583076	43-1	-2	5	9	2	1.1	338
			43-2	4	2	11	2	1.1	68
			43-3	2	-5	9	2	1.1	158
			43-4	-4	-2	11	2	1.1	248
44	537867	584386	44-1	-9	1	9	2	1.1	275
			44-2	0	4	18	2	1.1	5
			44-3	9	-1	9	2	1.1	95
			44-4	0	-4	18	2	1.1	185
45	537780	584403	45-1	-9	2	9	2	1.1	280
			45-2	1	4	18	2	1.1	10
			45-3	9	-2	9	2	1.1	100
			45-4	-1	-4	18	2	1.1	190
46	536153	585155	46-1	-6	2	13	2	1.1	291
			46-2	2	6	13	2	1.1	21

Receptor ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	Window Offset from Building Centre - X Axis (m)	Window Offset from Building Centre - Y Axis (m)	Window Width (m)	Window Height (m)	Window Centre Height Above Ground (m)	Direction from North (°)
			46-3	6	-2	13	2	1.1	111
			46-4	-2	-6	13	2	1.1	201
47	535647	585597	47-1	-2	2	17	2	1.1	318
			47-2	6	6	6	2	1.1	48
			47-3	2	-2	17	2	1.1	138
			47-4	-6	-6	6	2	1.1	228
48	536319	581221	48-1	-1	2	9	2	1.1	337
			48-2	4	2	4.5	2	1.1	67
			48-3	1	-2	9	2	1.1	157
			48-4	-4	-2	4.5	2	1.1	247
49	536395	581102	49-1	-1	5	9	2	1.1	346
			49-2	4	1	10	2	1.1	76
			49-3	1	-5	9	2	1.1	166
			49-4	-4	-1	10	2	1.1	256
50	536194	581665	50-1	0	3	14	2	1.1	357
			50-2	7	0	6	2	1.1	87
			50-3	0	-3	14	2	1.1	177
			50-4	-7	0	6	2	1.1	267
51	536134	581427	51-1	-9	1	11	2	1.1	278
			51-2	1	5	18	2	1.1	8
			51-3	9	-1	11	2	1.1	98
			51-4	-1	-5	18	2	1.1	188
52	536318	581277	52-1	-4	7	12	2	1.1	327
			52-2	5	3	16	2	1.1	57
			52-3	4	-7	12	2	1.1	147
			52-4	-5	-3	16	2	1.1	237
53	537207	581970	53-1	-5	3	11	2	1.1	299
			53-2	3	5	11	2	1.1	29
			53-3	5	-3	11	2	1.1	119
			53-4	-3	-5	11	2	1.1	209
54	537163	581939	54-1	-3	4	19	2	1.1	319
			54-2	7	6	10	2	1.1	49
			54-3	3	-4	19	2	1.1	139
			54-4	-7	-6	10	2	1.1	229
55	538202	582709	55-1	-4	4	15	2	1.1	312
			55-2	5	6	12	2	1.1	42
			55-3	4	-4	15	2	1.1	132
			55-4	-5	-6	12	2	1.1	222
56	538108	582828	56-1	0	3	19	2	1.1	357
			56-2	9	0	7	2	1.1	87
			56-3	0	-3	19	2	1.1	177
			56-4	-9	0	7	2	1.1	267
57	536192	581326	57-1	-4	6	11	2	1.1	329
			57-2	5	3	14	2	1.1	59
			57-3	4	-6	11	2	1.1	149
			57-4	-5	-3	14	2	1.1	239

Receptor ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	Window Offset from Building Centre - X Axis (m)	Window Offset from Building Centre - Y Axis (m)	Window Width (m)	Window Height (m)	Window Centre Height Above Ground (m)	Direction from North (°)
58	536154	581506	58-1	-1	9	19	2	1.1	356
			58-2	9	1	18	2	1.1	86
			58-3	1	-9	19	2	1.1	176
			58-4	-9	-1	18	2	1.1	266
59	536078	581661	59-1	-6	0	12	2	1.1	270
			59-2	0	6	12	2	1.1	0
			59-3	6	0	12	2	1.1	90
			59-4	0	-6	12	2	1.1	180
60	538268	584198	60-1	-5	2	6	2	1.1	290
			60-2	1	3	11	2	1.1	20
			60-3	5	-2	6	2	1.1	110
			60-4	-1	-3	11	2	1.1	200
61	533660	582363	61-1	-9	3	9	2	1.1	290
			61-2	2	4	20	2	1.1	20
			61-3	9	-3	9	2	1.1	110
			61-4	-2	-4	20	2	1.1	200