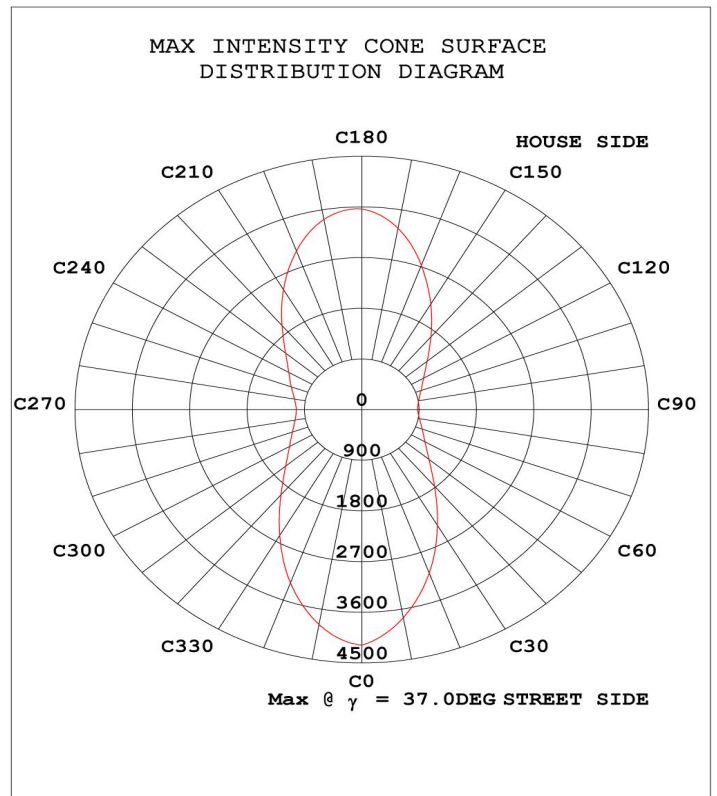
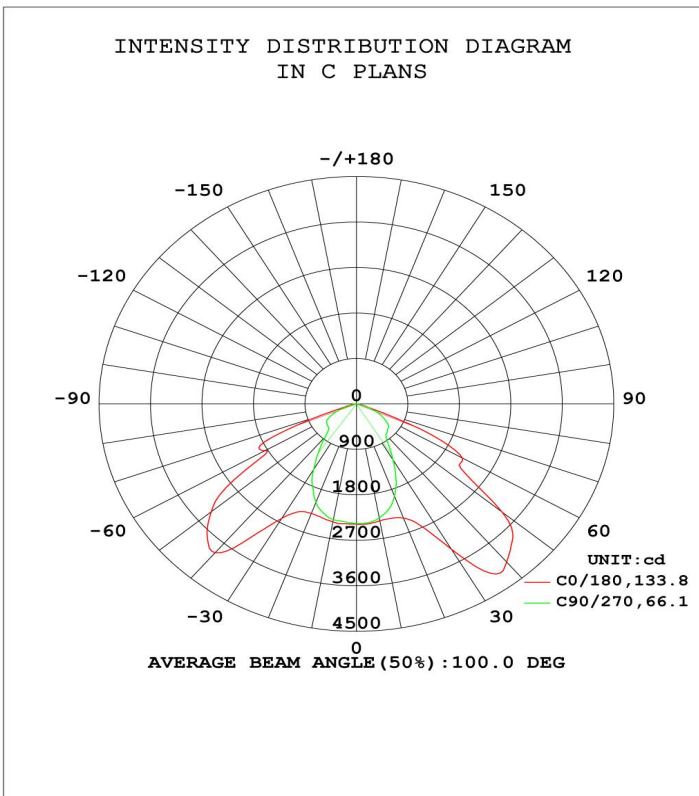


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6911.71x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	MP-SIL060	I _{max} (cd)	4183	η street_up (%)	0.1
NOMINAL POWER (W)	60	LOR (%)	100.0	η street_down (%)	54.4
RATED VOLTAGE (V)	12	TOTAL FLUX (lm)	6912	η house_up (%)	0.1
NOMINAL FLUX (lm)	6911.71	MAXIMUM @ (C, γ)	0,37.0	η house_down (%)	45.5
LAMPS INSIDE	1	η up (%)	0.1	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	12	η down (%)	99.9	SLI	17.182

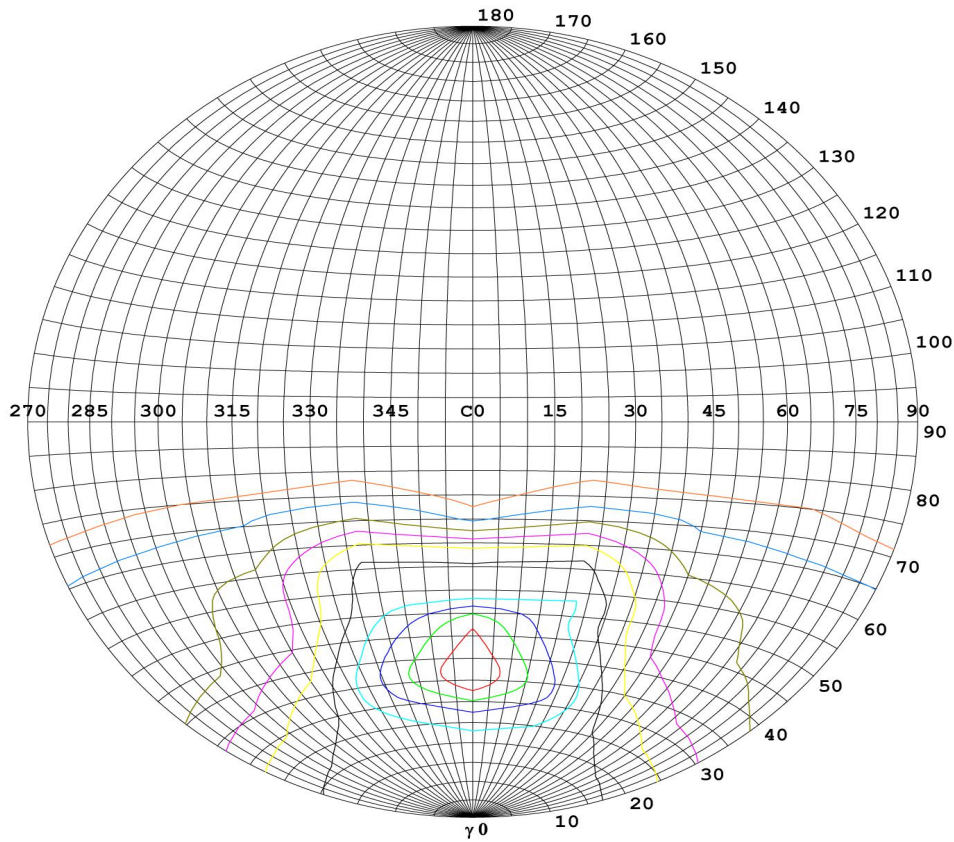


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6911.7lx1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:	Shielding Angle:N/A



Classification:

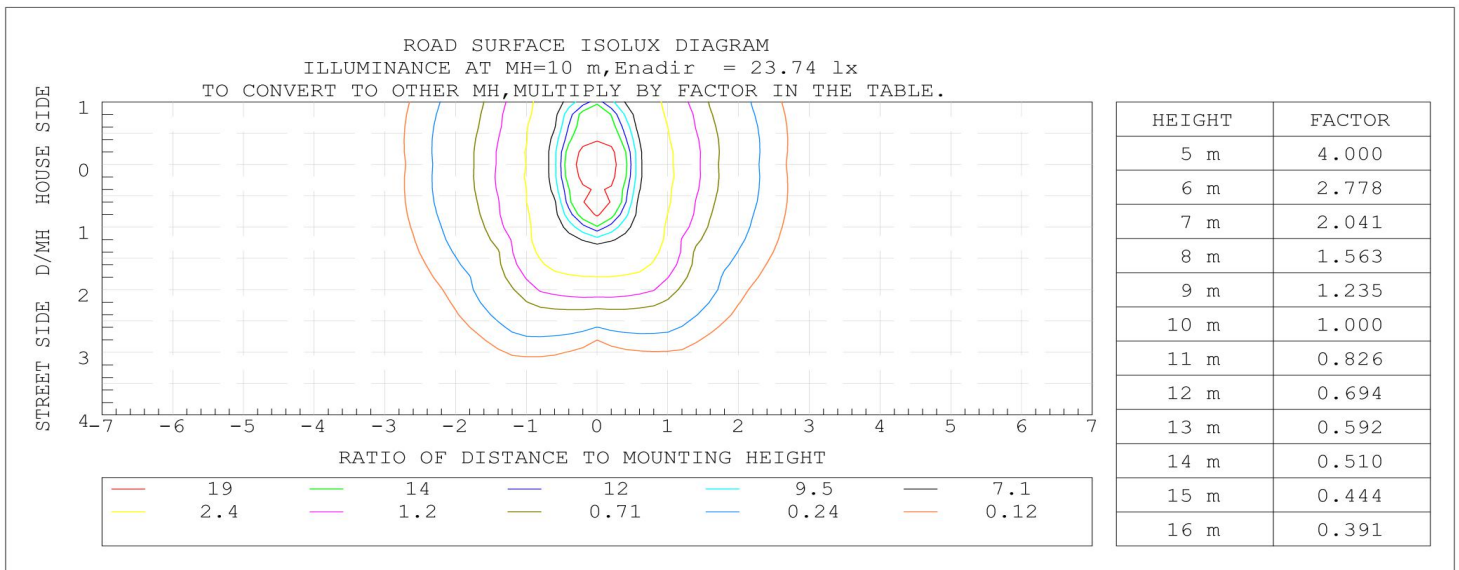
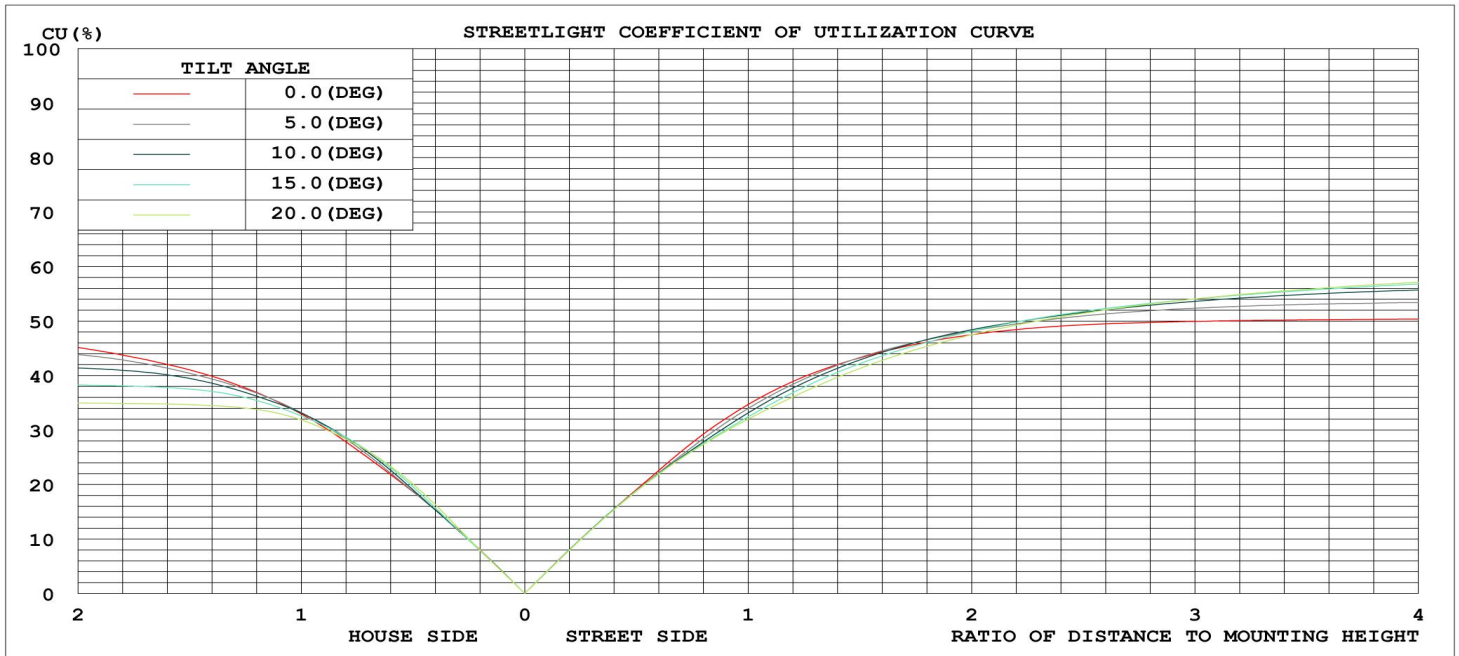
IES:Type II - Very Short
 CIE:Average - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:24.21cd/klm
 Max.At90:0.8049cd/klm
 Max.80-90:24.21cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4183
90%	3765
80%	3347
70%	2928
60%	2510
50%	2092
40%	1673
30%	1255
20%	837
10%	418
5%	209

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

**COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM**



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Seth
 Test Date: 2017-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity: 65.7%
 Test Distance: 26.000m [K=1.4966]
 Remarks:

ZONAL FLUX DIAGRAM

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6911.71x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:	Shielding Angle:N/A

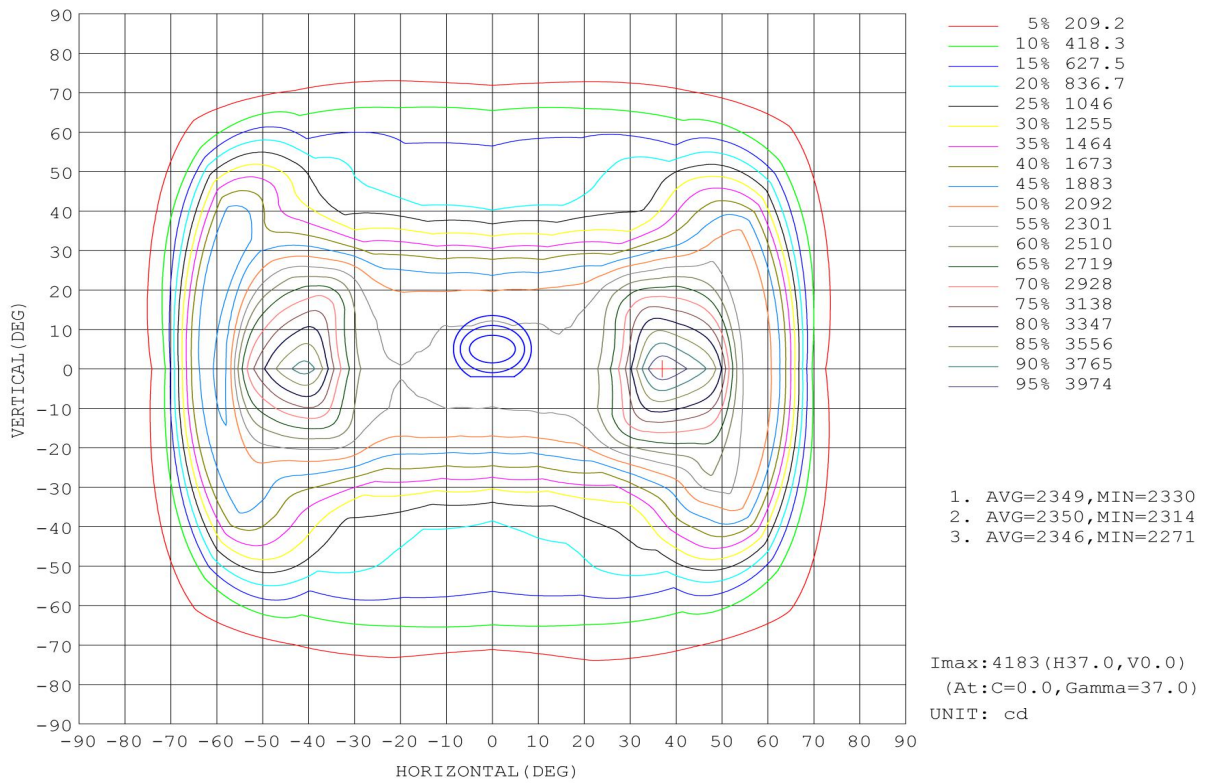
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2346	2354	2292	2329	2372	2333	2326	2362	0- 10	224.8	224.8	3.25,3.25
20	2407	2238	1940	2216	2305	2211	2075	2256	10- 20	643.6	868.4	12.6,12.6
30	3317	1951	1280	1852	2609	2013	1502	2083	20- 30	981.8	1850	26.8,26.8
40	4085	1385	807.2	1328	3845	1571	847.7	1537	30- 40	1270	3120	45.1,45.1
50	3327	1136	731.2	1014	3315	1002	664.2	1048	40- 50	1322	4442	64.3,64.3
60	2136	864.0	538.6	850.8	1843	908.0	567.2	924.0	50- 60	1216	5658	81.9,81.9
70	353.7	387.9	263.2	406.0	644.2	464.0	274.4	422.4	60- 70	925.7	6584	95.3,95.3
80	75.13	82.77	58.44	84.75	86.67	85.85	53.67	85.37	70- 80	277.0	6861	99.3,99.3
90	0.1129	0.2728	0.0538	0.4087	5.026	4.707	2.283	1.449	80- 90	43.02	6904	99.9,99.9
100	0	0	0	0	0.5074	1.017	1.534	1.552	90-100	0.5494	6904	99.9,99.9
110	0.2477	0	0	0	2.195	2.455	1.449	2.404	100-110	1.022	6905	99.9,99.9
120	0.6752	0	0	0	2.870	2.455	1.279	2.750	110-120	1.227	6906	99.9,99.9
130	1.687	0.0847	0	0.0008	2.699	2.963	0.9284	3.091	120-130	1.210	6908	99.9,99.9
140	1.688	0.1690	0	0.1707	2.364	3.133	0.8516	3.091	130-140	1.225	6909	100,100
150	1.940	1.355	0.2552	0.5999	2.449	3.133	1.450	3.435	140-150	1.119	6910	100,100
160	2.617	1.693	1.441	1.202	2.532	2.879	1.619	4.208	150-160	0.9425	6911	100,100
170	2.195	2.193	1.534	1.798	2.617	2.879	1.619	4.208	160-170	0.6194	6911	100,100
180	2.701	3.387	1.619	2.834	2.870	2.794	1.619	3.346	170-180	0.2341	6912	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

ISOCANDELA DIAGRAM

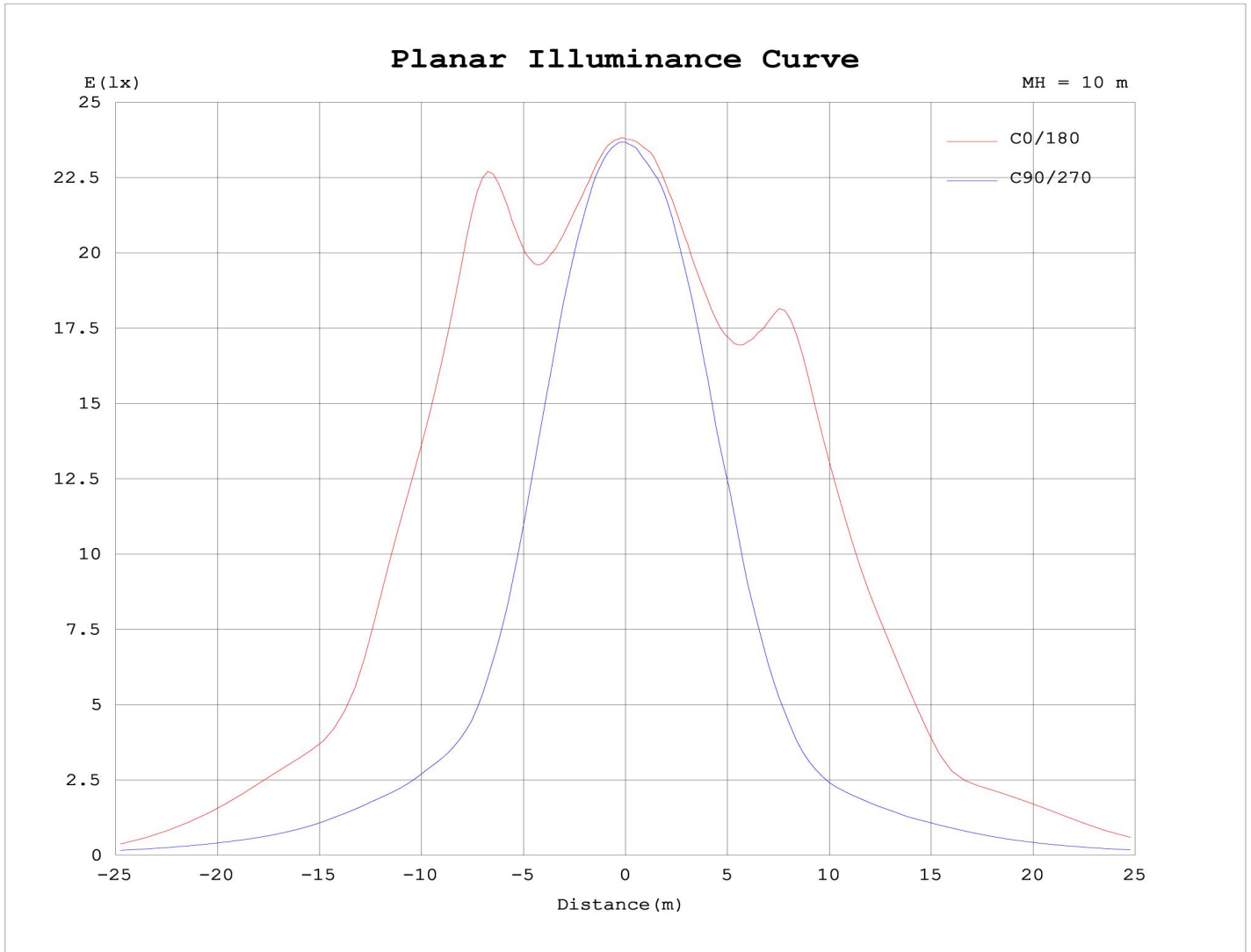
Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6911.71x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:	Shielding Angle:N/A



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

Planar Illuminance Curve



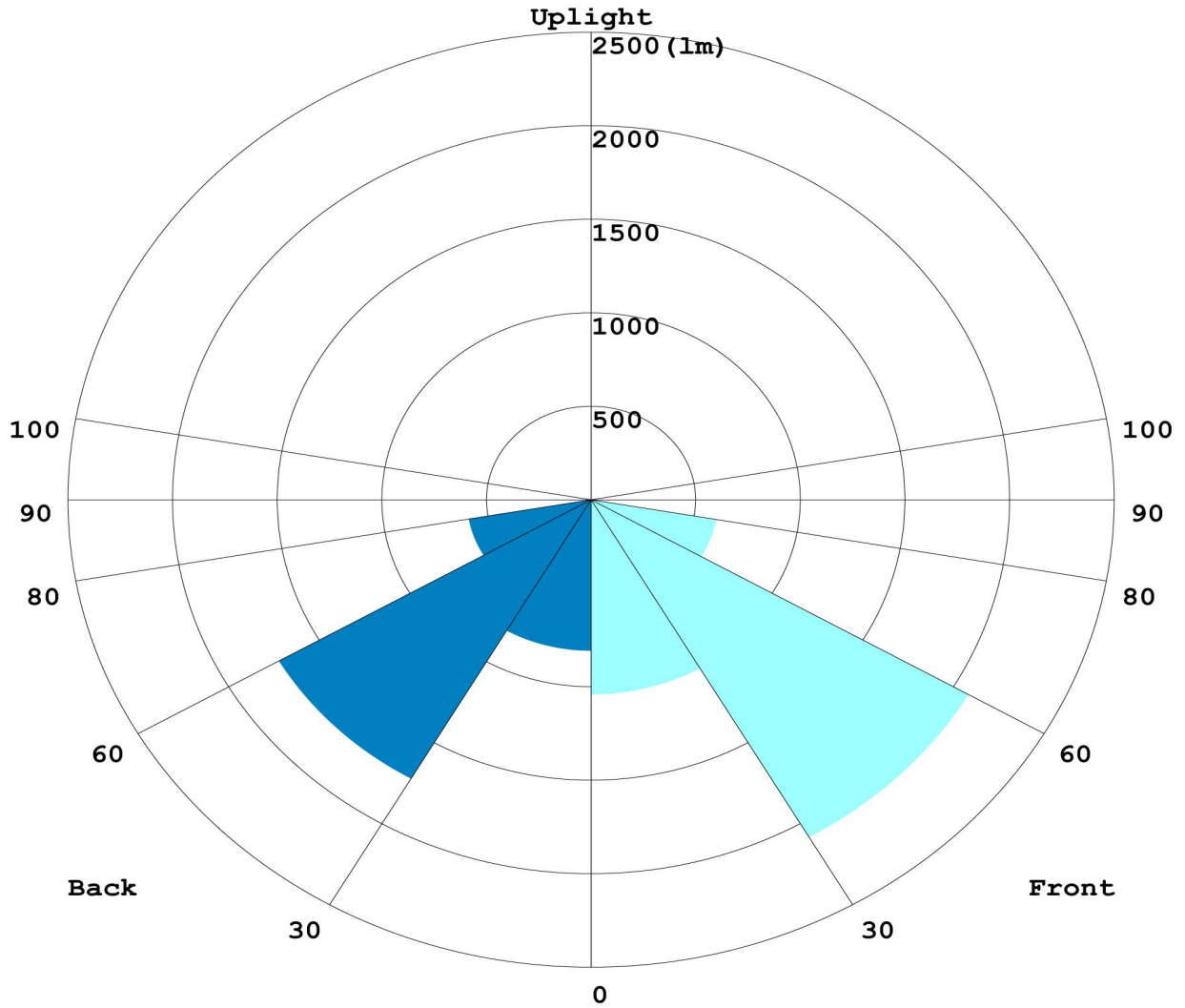
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Seth
Test Date: 2017-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity: 65.7%
Test Distance: 26.000m [K=1.4966]
Remarks:

LCS REPORT

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6911.71x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:	Shielding Angle:N/A

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

BUG REPORT

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6911.71x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:MAGNIZON POWER SYSTEMS FZE	SUR.:	Shielding Angle:N/A

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1042	15.1
FM - Front-Medium(30-60)	2084.4	30.2
FH - Front-High(60-80)	609.12	8.8
FVH - Front-Very High(80-90)	22.757	0.3
Total Forward Light	3762.8	54.4

BL - Back-Low(0-30)	808.13	11.7
BM - Back-Medium(30-60)	1723.2	24.9
BH - Back-High(60-80)	593.6	8.6
BVH - Back-Very High(80-90)	20.261	0.3
Total Back Light	3149	45.6

UL - Uplight-Low(90-100)	0.54936	0.0
UH - Uplight-High(100-180)	7.5999	0.1
Total Up Light	8.1493	0.1

BUG(Back,Up,Glare) Rating	B2-U1-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3145.2	3.7409	3149
Street Side	3758.3	4.4084	3762.8

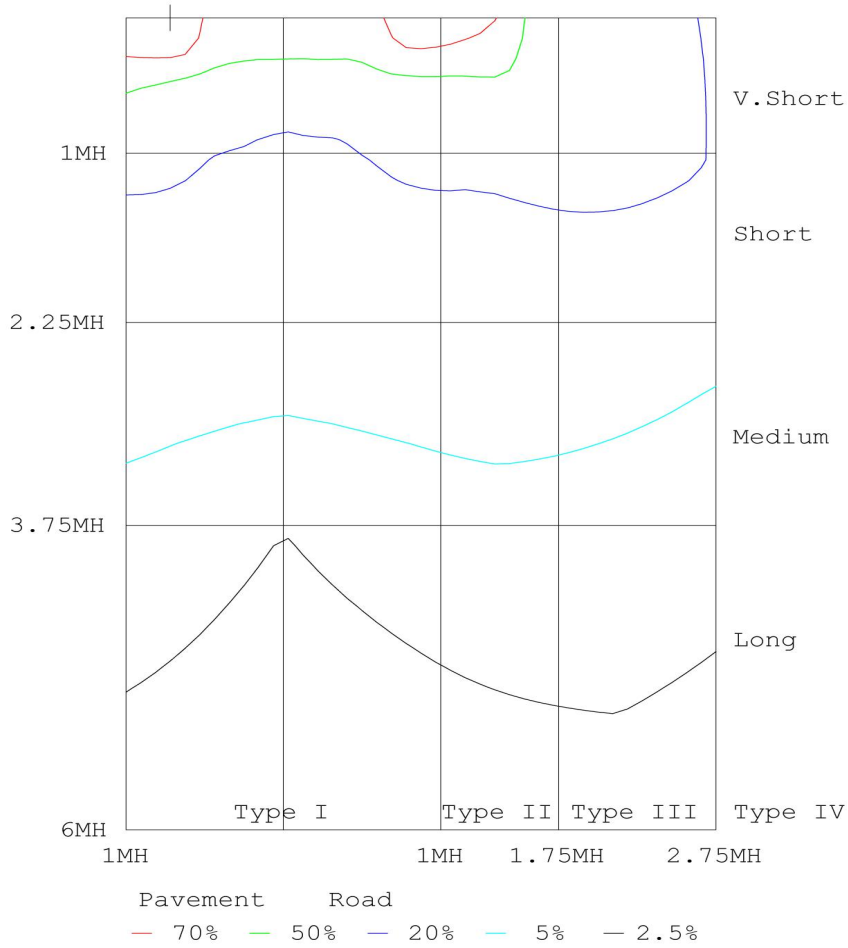
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6911.71x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:	Shielding Angle:N/A

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6911.71x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:	Shielding Angle:N/A

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	2379	2374	2374	2367	2368	2371	2359	2369	2379	2374	2374	2367	2368	2371	2359	2369			
5	2382	2387	2379	2365	2358	2354	2357	2357	2378	2361	2356	2351	2341	2356	2364	2365			
10	2346	2374	2354	2324	2292	2317	2329	2343	2372	2344	2333	2320	2326	2323	2362	2335			
15	2344	2361	2312	2211	2162	2201	2292	2315	2331	2300	2304	2259	2237	2259	2312	2307			
20	2407	2378	2238	2019	1940	2017	2216	2291	2305	2264	2211	2133	2075	2149	2256	2328			
25	2658	2514	2121	1763	1642	1751	2048	2306	2351	2275	2137	1931	1812	1936	2201	2444			
30	3317	2832	1951	1452	1280	1444	1852	2379	2609	2379	2013	1659	1502	1649	2083	2785			
35	4092	2984	1668	1139	975	1126	1606	2550	3223	2706	1826	1341	1156	1323	1863	3098			
40	4085	2798	1385	936	807	902	1328	2502	3845	2960	1571	1018	848	1003	1537	2976			
45	3852	2579	1208	856	764	815	1111	2257	3691	2716	1249	786	683	796	1229	2714			
50	3327	2505	1136	792	731	775	1014	2015	3315	2373	1002	703	664	745	1048	2404			
55	2237	2445	1064	732	667	730	977	1959	2609	1969	920	672	634	713	1022	2278			
60	2136	2228	864	609	539	626	851	1972	1843	1946	908	617	567	641	924	2170			
65	1450	1661	579	462	415	478	611	1693	1764	1982	698	504	430	503	629	1711			
70	354	799	388	329	263	327	406	982	644	1360	464	348	274	340	422	906			
75	147	308	266	211	103	194	229	331	182	489	249	185	104	181	241	329			
80	75.1	149	82.8	110	58.4	96.5	84.7	146	86.7	167	85.8	79.5	53.7	92.1	85.4	155			
85	34.4	34.2	29.4	30.8	19.6	27.5	34.2	40.4	39.4	42.0	34.8	27.0	23.4	28.4	34.9	42.0			
90	0.11	0.29	0.27	0.11	0.05	0.02	0.41	0.73	5.03	5.56	4.71	2.93	2.28	1.94	1.45	0.85			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.42	0.59	1.10	0.94	1.20	0.86	0.86			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	1.02	1.02	1.61	1.53	1.54	1.55	2.13			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	2.19	1.70	1.53	1.45	1.54	2.40	3.66			
110	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	2.96	2.46	1.53	1.45	1.54	2.40	4.33			
115	0.34	0.08	0.00	0.00	0.00	0.00	0.00	0.00	2.71	3.12	2.46	1.44	1.45	1.45	2.40	4.25			
120	0.68	0.26	0.00	0.00	0.00	0.00	0.00	0.00	2.87	3.20	2.46	1.36	1.28	1.28	2.75	3.82			
125	1.43	0.59	0.00	0.00	0.00	0.00	0.00	0.34	2.70	2.86	2.63	1.95	1.70	1.71	3.01	2.80			
130	1.69	1.43	0.08	0.00	0.00	0.00	0.00	0.42	2.70	2.53	2.96	2.03	0.93	3.00	3.09	2.80			
135	1.60	1.43	0.08	0.00	0.00	0.00	0.00	0.59	2.36	2.53	3.13	3.06	0.68	4.11	3.09	2.80			
140	1.69	1.52	0.17	0.00	0.00	0.00	0.17	1.19	2.36	2.53	3.13	3.47	0.85	4.20	3.09	2.80			
145	1.69	1.52	1.26	0.00	0.08	0.09	0.17	1.19	2.36	2.53	3.13	3.39	1.03	4.11	3.09	2.80			
150	1.94	2.11	1.35	0.34	0.26	0.68	0.60	1.19	2.45	2.53	3.13	3.39	1.45	3.32	3.43	2.80			
155	2.62	2.53	1.52	0.68	0.68	0.94	0.78	1.36	2.53	2.53	3.13	3.39	1.62	1.63	4.29	2.80			
160	2.62	2.61	1.69	1.27	1.44	0.94	1.20	1.36	2.53	2.53	2.88	3.39	1.62	1.63	4.21	2.80			
165	2.28	2.28	1.69	1.53	1.36	1.37	1.37	1.44	2.53	2.53	2.88	3.39	1.62	1.63	4.21	2.80			
170	2.19	2.28	2.19	1.53	1.53	1.79	1.80	1.44	2.62	2.70	2.88	3.39	1.62	1.63	4.21	2.80			
175	2.45	2.70	3.04	1.61	1.62	3.08	2.66	1.78	2.87	2.70	2.96	3.39	1.62	1.63	3.69	2.80			
180	2.70	2.78	3.39	1.61	1.62	3.25	2.83	2.72	2.87	2.70	2.79	3.39	1.62	1.63	3.35	2.80			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks: