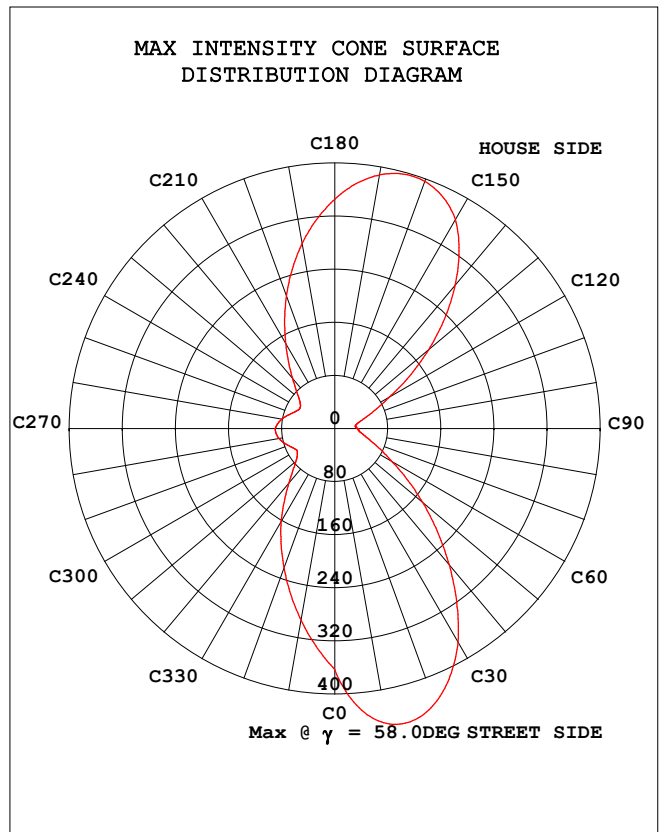
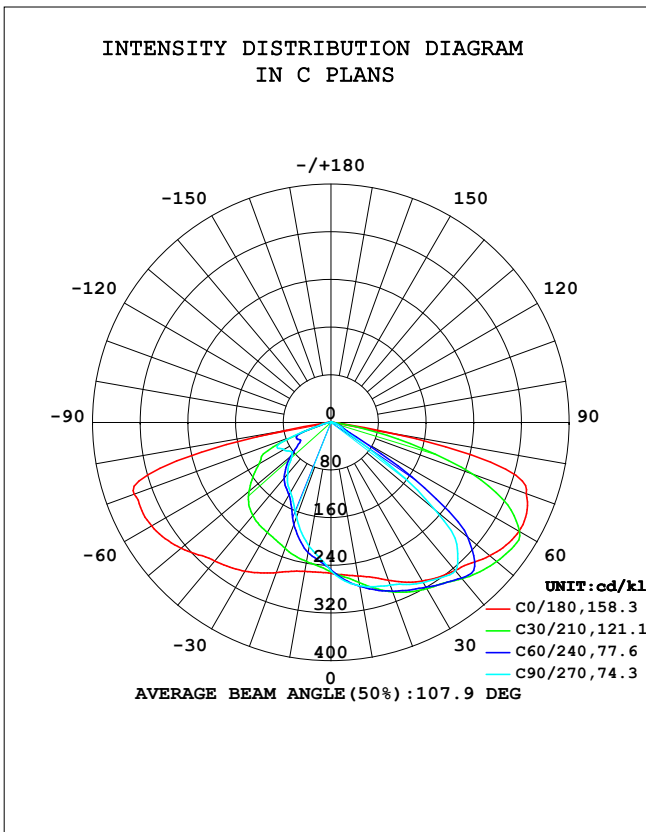


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:233.4V I:0.1923A P:41.35W PF:0.9217 Freq:50.02Hz Lamp Flux:8469.58x1 lm		
NAME: ST-40W-SOLAR	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 204.82 lm/W			
MODEL		I <sub>max</sub> (cd/klm)	371.9	η street_up (%)	0.2
NOMINAL POWER (W)	40	LOR (%)	100.0	η street_down (%)	56.2
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm/klm)	1000	η house_up (%)	0.2
NOMINAL FLUX (lm)	8469.58	MAXIMUM @ (C, γ )	30,58.0	η house_down (%)	43.5
LAMPS INSIDE	1	η up (%)	0.3	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	220.0	η down (%)	99.7	SLI	

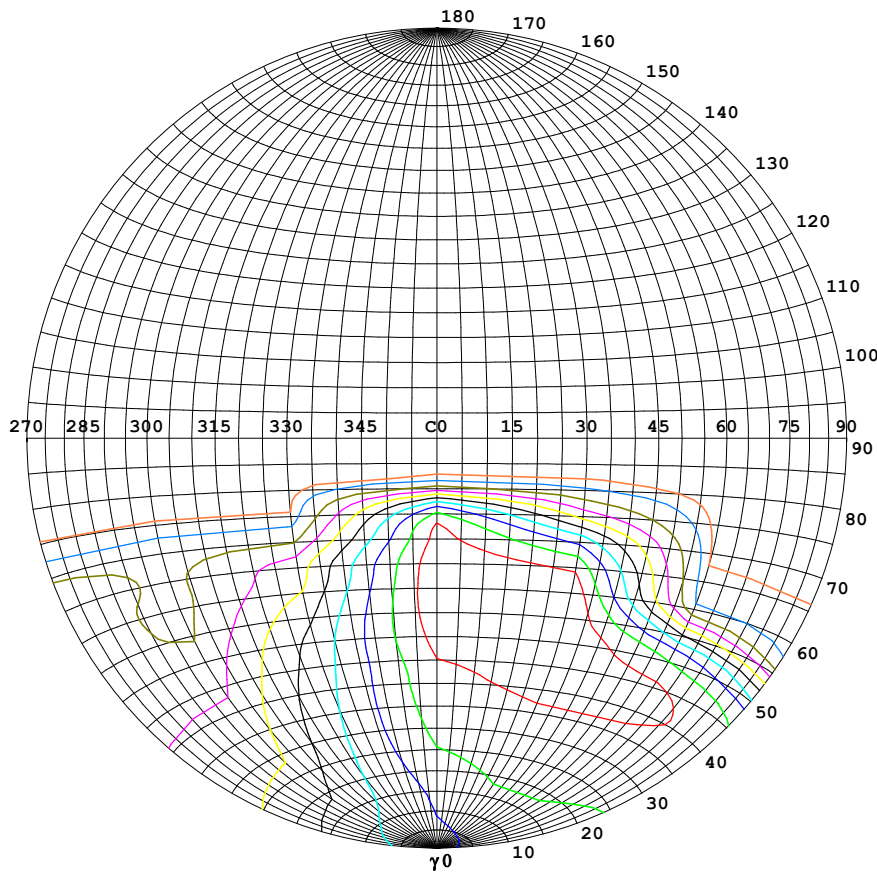


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Kevin  
 Test Date: 2022-11-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.800m [K=1.0000]  
 Remarks:

**STREETLIGHT ISOCANDELA DIAGRAM**

Test:U:233.4V I:0.1923A P:41.35W PF:0.9217 Freq:50.02Hz Lamp Flux:8469.58x1 lm		
NAME: ST-40W-SOLAR	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



**Classification:**

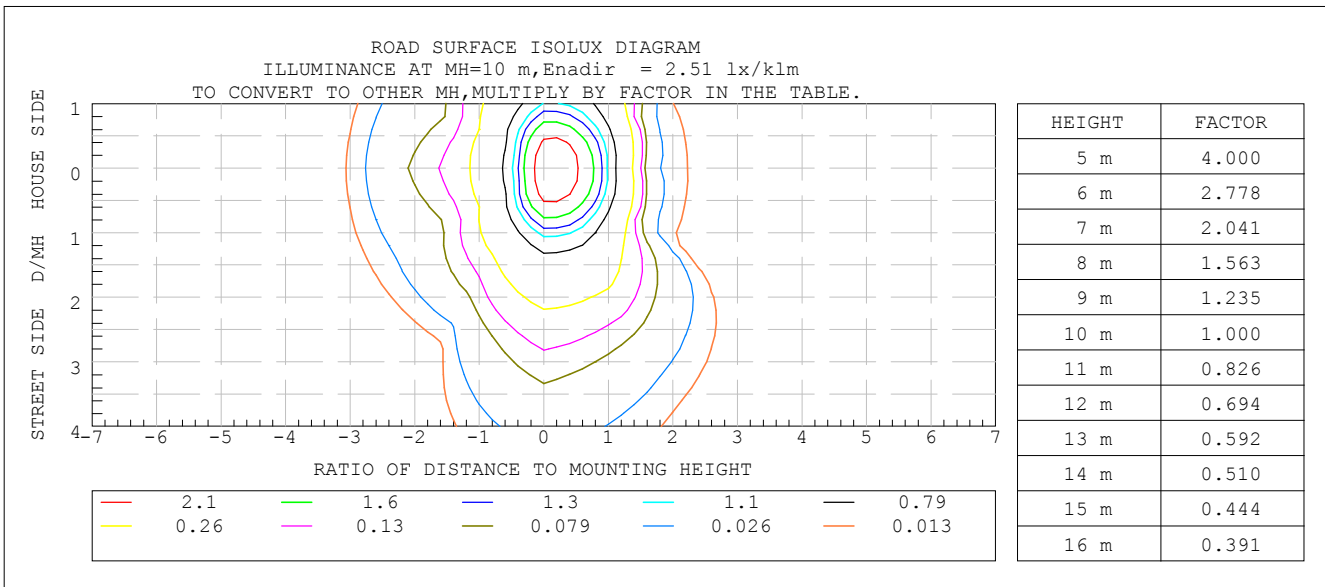
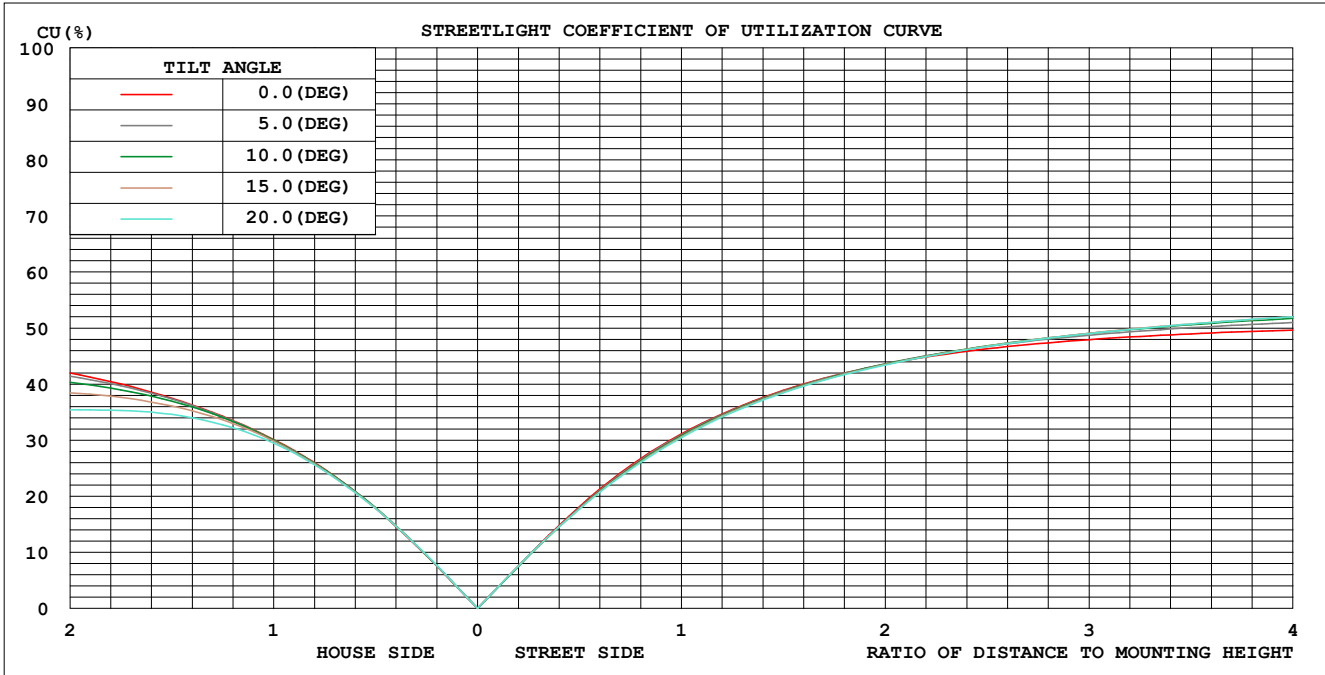
IES:Type IV - Short  
 CIE:Broad - Short  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:92.50cd/klm  
 Max.At90:1.365cd/klm  
 Max.80-90:92.50cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd/klm
I <sub>max</sub> =100%	372
90%	335
80%	298
70%	260
60%	223
50%	186
40%	149
30%	112
20%	74
10%	37
5%	19

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Kevin  
 Test Date:2022-11-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.800m [K=1.0000]  
 Remarks:

**COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM**



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Kevin  
 Test Date: 2022-11-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.800m [K=1.0000]  
 Remarks:

**ZONAL FLUX DIAGRAM**

Test:U:233.4V I:0.1923A P:41.35W PF:0.9217 Freq:50.02Hz Lamp Flux:8469.58x1 lm		
NAME: ST-40W-SOLAR	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

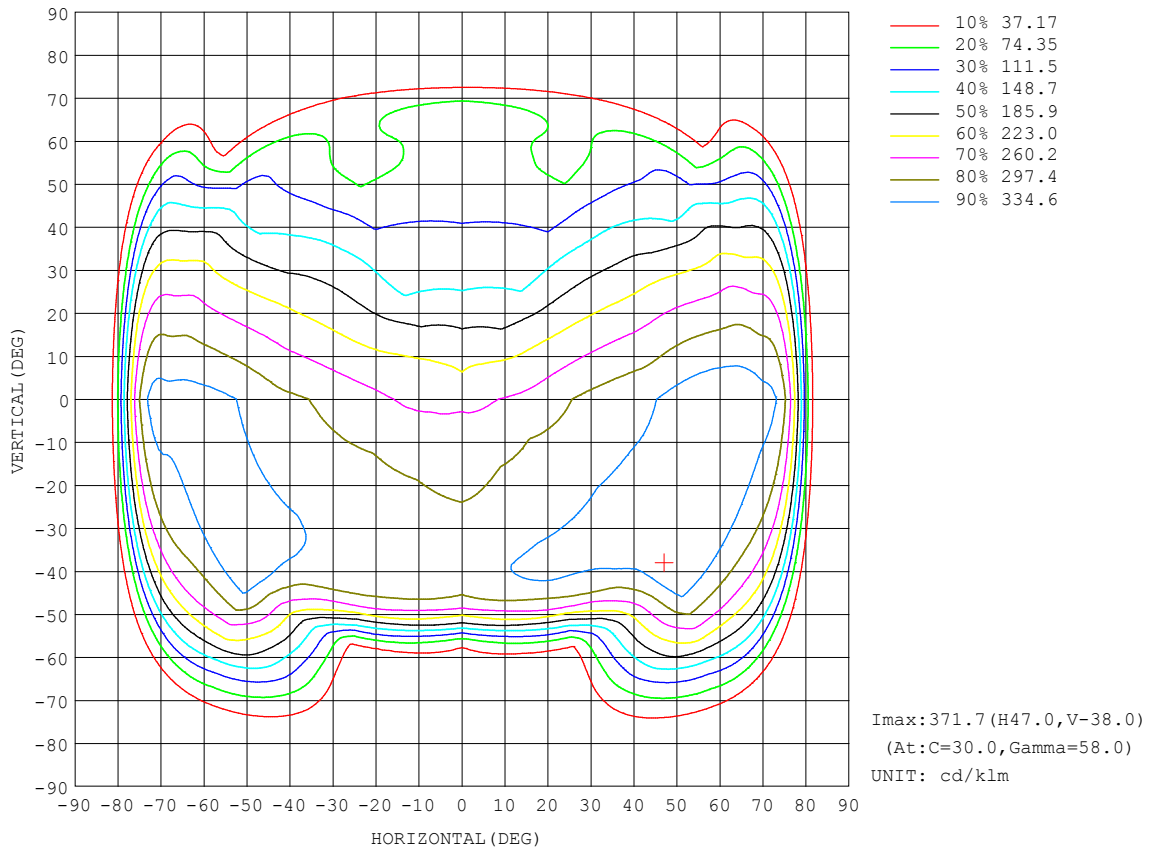
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	261.9	275.9	278.2	268.1	254.0	229.5	211.2	229.4	0- 10	23.92	23.92	2.39,2.39
20	281.8	301.8	290.4	291.4	268.5	203.7	169.5	206.4	10- 20	71.17	95.09	9.51,9.51
30	307.3	320.7	310.2	312.0	288.4	177.4	136.1	186.2	20- 30	116.6	211.7	21.2,21.2
40	324.3	341.7	325.1	324.2	303.5	163.4	113.6	169.0	30- 40	159.8	371.5	37.1,37.1
50	348.3	331.5	228.9	320.3	328.6	134.1	85.35	143.3	40- 50	193.4	564.8	56.5,56.5
60	364.8	207.4	24.59	199.6	347.7	99.69	91.50	107.2	50- 60	183.7	748.5	74.9,74.9
70	348.6	134.3	13.64	129.8	351.7	59.13	66.45	65.54	60- 70	153.9	902.5	90.2,90.2
80	92.50	24.79	5.341	23.10	75.77	9.816	9.605	11.03	70- 80	86.29	988.8	98.9,98.9
90	0.7523	0.3553	0.1559	0.2708	0.6091	0.9476	0.8899	1.193	80- 90	7.872	996.6	99.7,99.7
100	0.6233	0.1605	0.1950	0.1842	0.6524	0.2915	0.1263	0.2573	90-100	0.3223	997.0	99.7,99.7
110	0.8079	0.2706	0.2528	0.3272	0.8422	0.5140	0.1956	0.4467	100-110	0.3788	997.3	99.7,99.7
120	0.9173	0.3776	0.3564	0.4460	0.9677	0.7579	0.4269	0.6717	110-120	0.5140	997.8	99.8,99.8
130	0.8461	0.4643	0.4824	0.5230	0.8994	0.8823	0.8267	0.8059	120-130	0.5898	998.4	99.8,99.8
140	0.7861	0.5097	0.4154	0.5693	0.8319	0.8759	1.004	0.8572	130-140	0.5556	999.0	99.9,99.9
150	0.6762	0.5174	0.4738	0.5603	0.7252	0.8040	0.9091	0.7846	140-150	0.4442	999.4	99.9,99.9
160	0.6336	0.5647	0.5599	0.5895	0.6836	0.7601	0.8433	0.7324	150-160	0.3100	999.7	100,100
170	0.6610	0.6197	0.6058	0.6455	0.6964	0.7248	0.7490	0.7289	160-170	0.1911	999.9	100,100
180	0.6807	0.6926	0.6868	0.6959	0.6907	0.6905	0.6803	0.7003	170-180	0.0651	1000	100,100
DEG	LUMINOUS INTENSITY:cd/klm									UNIT:lm/klm		

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Kevin  
 Test Date:2022-11-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.800m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

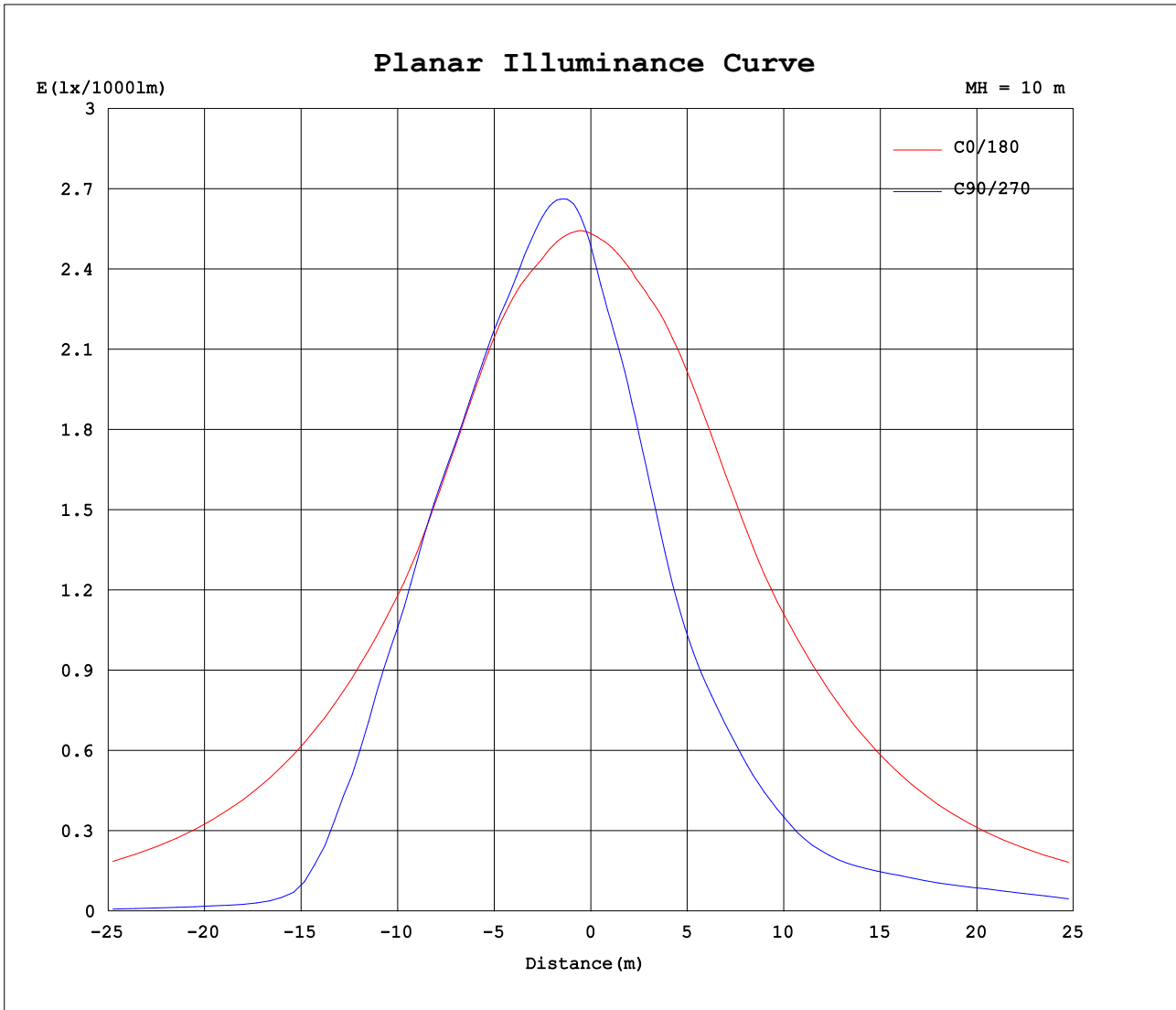
Test:U:233.4V I:0.1923A P:41.35W PF:0.9217 Freq:50.02Hz Lamp Flux:8469.58x1 lm		
NAME: ST-40W-SOLAR	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Kevin  
 Test Date: 2022-11-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.800m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



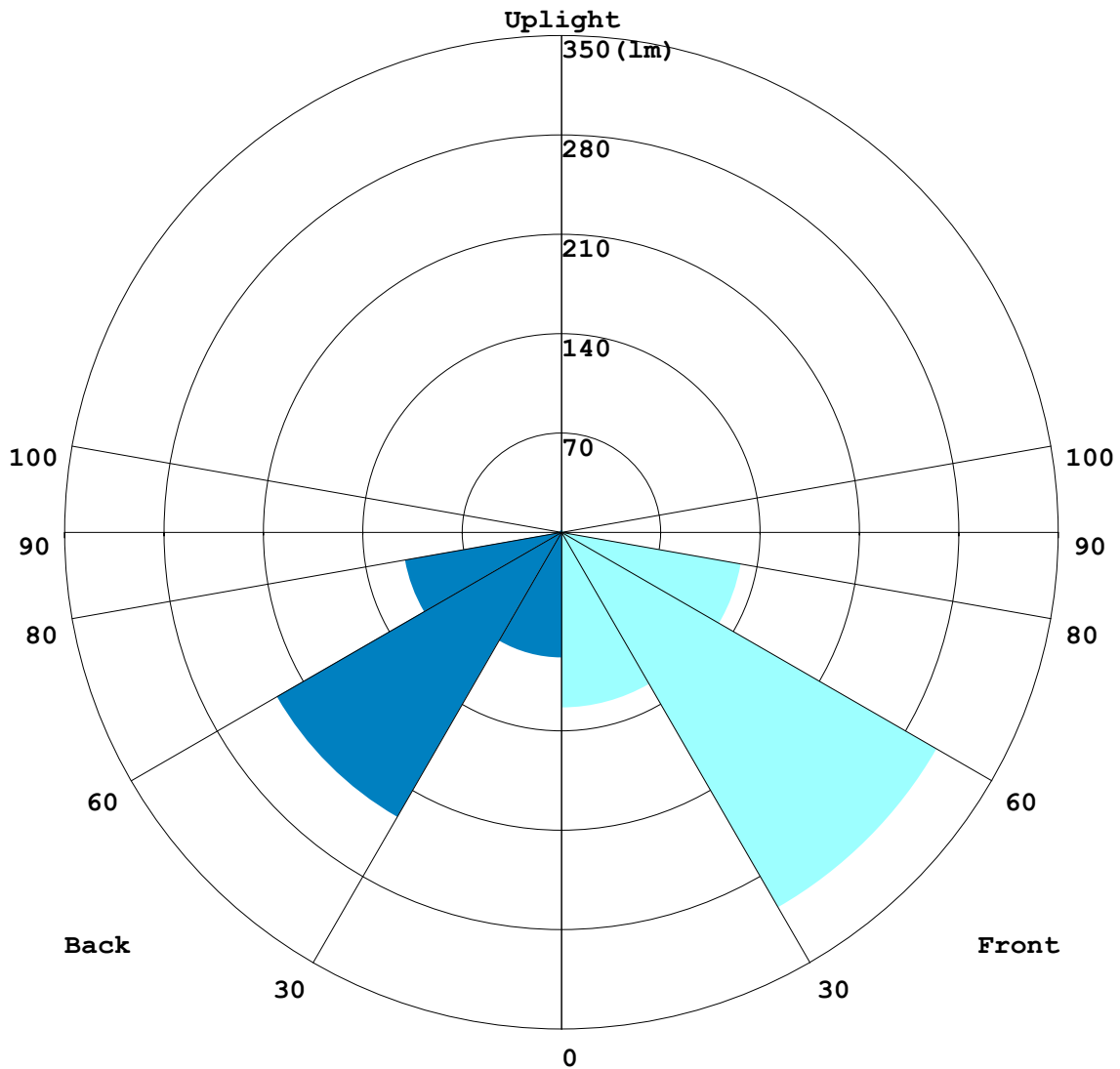
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Kevin  
 Test Date: 2022-11-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.800m [K=1.0000]  
 Remarks:

**LCS REPORT**

Test:U:233.4V I:0.1923A P:41.35W PF:0.9217 Freq:50.02Hz Lamp Flux:8469.58x1 lm		
NAME: ST-40W-SOLAR	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

**LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH**



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Kevin  
 Test Date:2022-11-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.800m [K=1.0000]  
 Remarks:

**BUG REPORT**

Test:U:233.4V I:0.1923A P:41.35W PF:0.9217 Freq:50.02Hz Lamp Flux:8469.58x1 lm		
NAME: ST-40W-SOLAR	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

**IESNA Luminaire Flux Distribution Table:**

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	123.47	12.3
FM - Front-Medium(30-60)	305.38	30.5
FH - Front-High(60-80)	128.42	12.8
FVH - Front-Very High(80-90)	4.4986	0.4
<b>Total Forward Light</b>	<b>563.63</b>	<b>56.4</b>

BL - Back-Low(0-30)	88.201	8.8
BM - Back-Medium(30-60)	231.48	23.1
BH - Back-High(60-80)	111.81	11.2
BVH - Back-Very High(80-90)	3.3732	0.3
<b>Total Back Light</b>	<b>436.37</b>	<b>43.6</b>

UL - Uplight-Low(90-100)	0.32232	0.0
UH - Uplight-High(100-180)	3.0487	0.3
<b>Total Up Light</b>	<b>3.371</b>	<b>0.3</b>

<b>BUG(Back,Up,Glare) Rating</b>	<b>B1-U1-G1</b>
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	434.86	1.5022	436.37
Street Side	561.76	1.8687	563.63

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Kevin  
 Test Date:2022-11-26

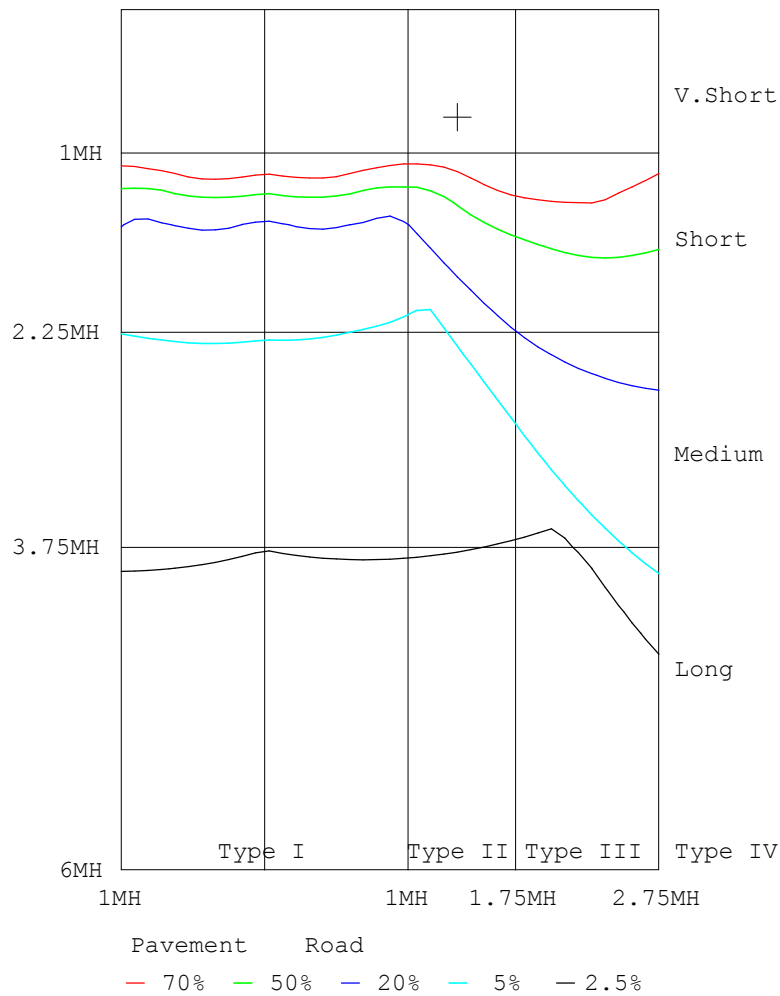
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.800m [K=1.0000]  
 Remarks:



**ROAD ISOCANDELA REPORT**

Test:U:233.4V I:0.1923A P:41.35W PF:0.9217 Freq:50.02Hz Lamp Flux:8469.58x1 lm		
NAME: ST-40W-SOLAR	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Kevin  
 Test Date:2022-11-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.800m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:233.4V I:0.1923A P:41.35W PF:0.9217 Freq:50.02Hz Lamp Flux:8469.58x1 lm		
NAME: ST-40W-SOLAR	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd/klm

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	253	250	247	249	251	250	253	250	247	249	251	250							
5	257	260	265	267	263	258	252	242	233	227	236	243							
10	262	273	279	278	271	265	254	237	222	211	221	238							
15	269	288	291	285	282	276	259	232	204	191	200	233							
20	282	302	301	290	294	289	268	225	182	170	180	232							
25	296	314	310	300	306	299	279	218	157	149	160	231							
30	307	322	319	310	316	308	288	213	141	136	144	228							
35	317	329	330	319	322	315	296	210	132	127	133	224							
40	324	343	341	325	326	322	304	204	122	114	121	217							
45	334	354	341	300	330	333	314	195	107	99.8	104	209							
50	348	363	300	229	295	346	329	180	88.6	85.4	88.2	198							
55	359	370	192	92.9	189	360	340	161	69.3	84.3	71.6	179							
60	365	366	49.2	24.6	42.1	357	348	140	59.3	91.5	63.9	151							
65	362	327	22.3	19.7	21.0	320	351	125	63.9	100	65.4	131							
70	349	252	16.4	13.6	15.3	244	352	61.6	56.7	66.4	58.4	72.7							
75	304	138	10.9	9.20	10.3	135	297	17.1	21.0	19.5	22.2	21.5							
80	92.5	42.8	6.74	5.34	6.40	39.8	75.8	9.62	10.0	9.61	11.1	11.0							
85	11.4	7.15	2.99	2.02	2.94	6.83	8.83	4.44	4.41	3.64	4.67	5.29							
90	0.75	0.51	0.20	0.16	0.18	0.36	0.61	0.78	1.11	0.89	1.37	1.02							
95	0.53	0.21	0.09	0.13	0.10	0.20	0.53	0.37	0.14	0.14	0.14	0.36							
100	0.62	0.20	0.12	0.20	0.13	0.24	0.65	0.48	0.11	0.13	0.10	0.42							
105	0.72	0.27	0.15	0.25	0.16	0.35	0.74	0.63	0.16	0.17	0.14	0.54							
110	0.81	0.36	0.18	0.25	0.20	0.46	0.84	0.76	0.27	0.20	0.23	0.66							
115	0.87	0.43	0.22	0.30	0.24	0.54	0.92	0.86	0.43	0.31	0.37	0.75							
120	0.92	0.48	0.27	0.36	0.29	0.60	0.97	0.92	0.60	0.43	0.52	0.82							
125	0.90	0.52	0.32	0.48	0.34	0.62	0.94	0.93	0.74	0.65	0.65	0.85							
130	0.85	0.56	0.37	0.48	0.40	0.64	0.90	0.93	0.83	0.83	0.74	0.87							
135	0.81	0.58	0.36	0.56	0.41	0.65	0.88	0.91	0.88	0.93	0.81	0.88							
140	0.79	0.59	0.43	0.42	0.49	0.65	0.83	0.88	0.87	1.00	0.86	0.86							
145	0.74	0.58	0.43	0.54	0.48	0.63	0.77	0.83	0.84	0.95	0.84	0.81							
150	0.68	0.56	0.47	0.47	0.51	0.61	0.73	0.78	0.83	0.91	0.81	0.76							
155	0.65	0.58	0.52	0.53	0.55	0.60	0.69	0.76	0.79	0.86	0.78	0.73							
160	0.63	0.59	0.54	0.56	0.57	0.61	0.68	0.74	0.78	0.84	0.76	0.71							
165	0.65	0.61	0.58	0.58	0.60	0.64	0.70	0.73	0.77	0.82	0.75	0.71							
170	0.66	0.63	0.61	0.61	0.63	0.67	0.70	0.72	0.72	0.75	0.75	0.71							
175	0.67	0.65	0.65	0.65	0.65	0.68	0.69	0.72	0.72	0.71	0.73	0.70							
180	0.68	0.69	0.69	0.69	0.69	0.70	0.69	0.70	0.68	0.68	0.71	0.69							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Kevin  
 Test Date:2022-11-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.800m [K=1.0000]  
 Remarks: