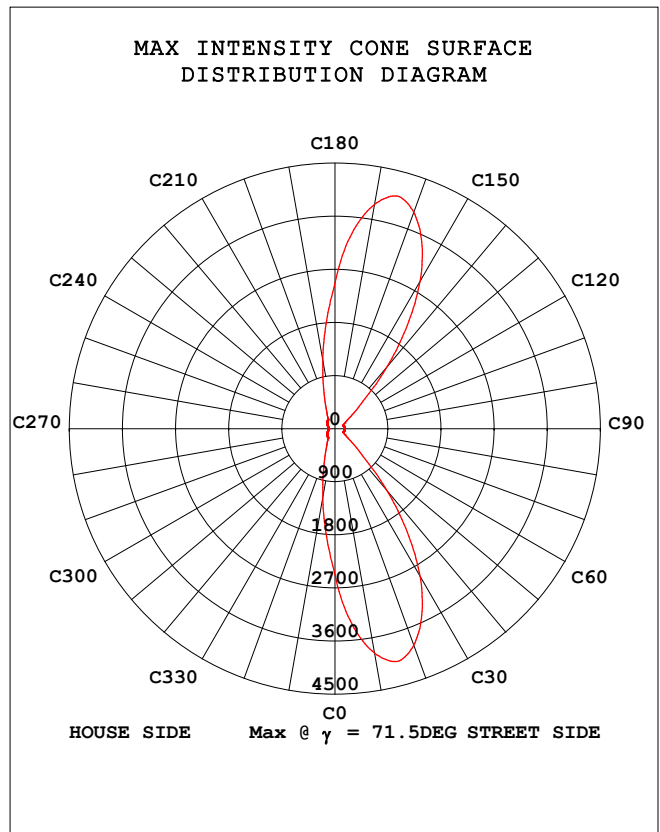
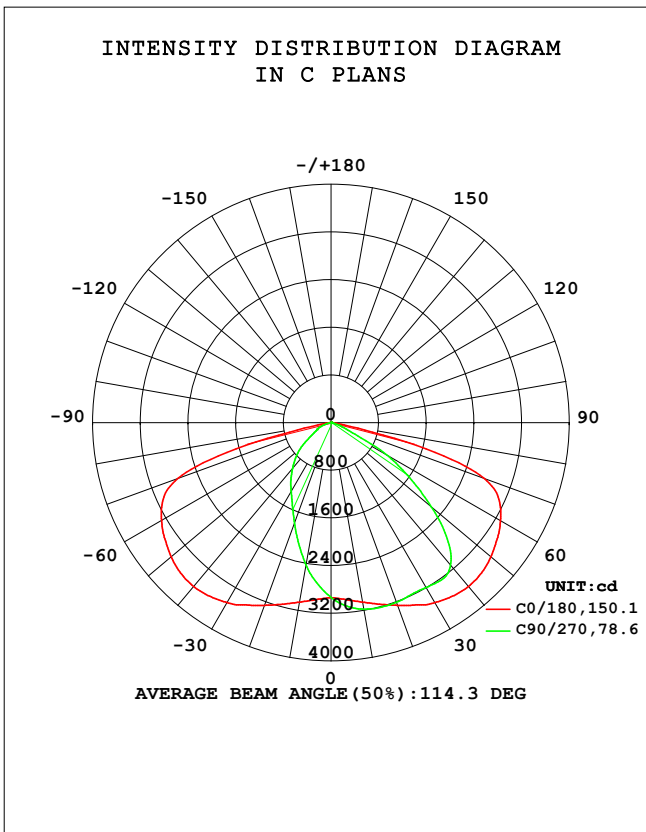


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.3V I:0.3335A P:72.30W PF:0.9369 Lamp Flux:10050.8x1 lm		
NAME: ST10-070KT	TYPE:70W	WEIGHT:
SPEC.:4070-T2M-R09603	DIM.:	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.02 lm/W			
MODEL	NI303	Imax (cd)	4081	η street_up (%)	0.0
NOMINAL POWER (W)	70	LOR (%)	100.0	η street_down (%)	64.9
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	10051	η house_up (%)	0.0
NOMINAL FLUX (lm)	10050.8	MAXIMUM @ (C, γ)	15,71.5	η house_down (%)	35.1
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	230	η down (%)	100.0	SLI	



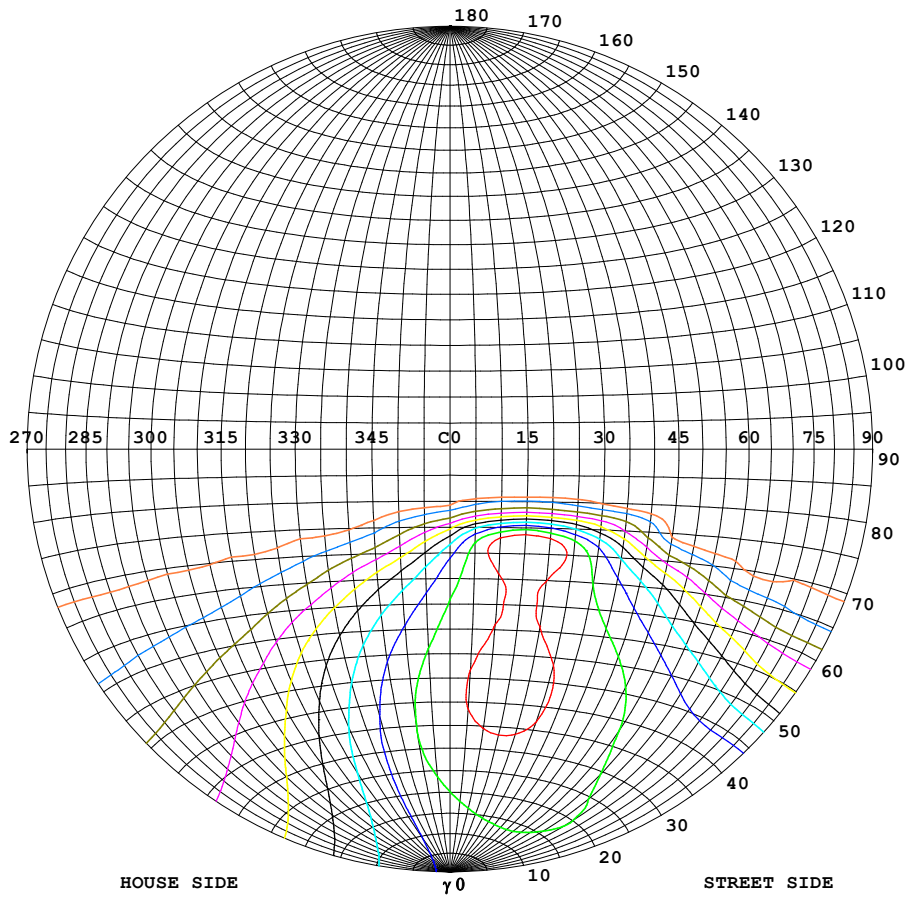
C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-03-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Checker: LI
 Note: SLI:Specific Luminaire Index

Assessor:

STREETLIGHT ISOCANDELA DIAGRAM



Classification:

IES:Type III - Medium
 CIE:Average - Long
 IES:Full cut-off
 CIE:Semi-cut-off
 Max.At80:44.64cd/klm
 Max.At90:0cd/klm
 Max.80-90:44.64cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	4081
90%	3673
80%	3265
70%	2857
60%	2449
50%	2041
40%	1633
30%	1224
20%	816
10%	408
5%	204

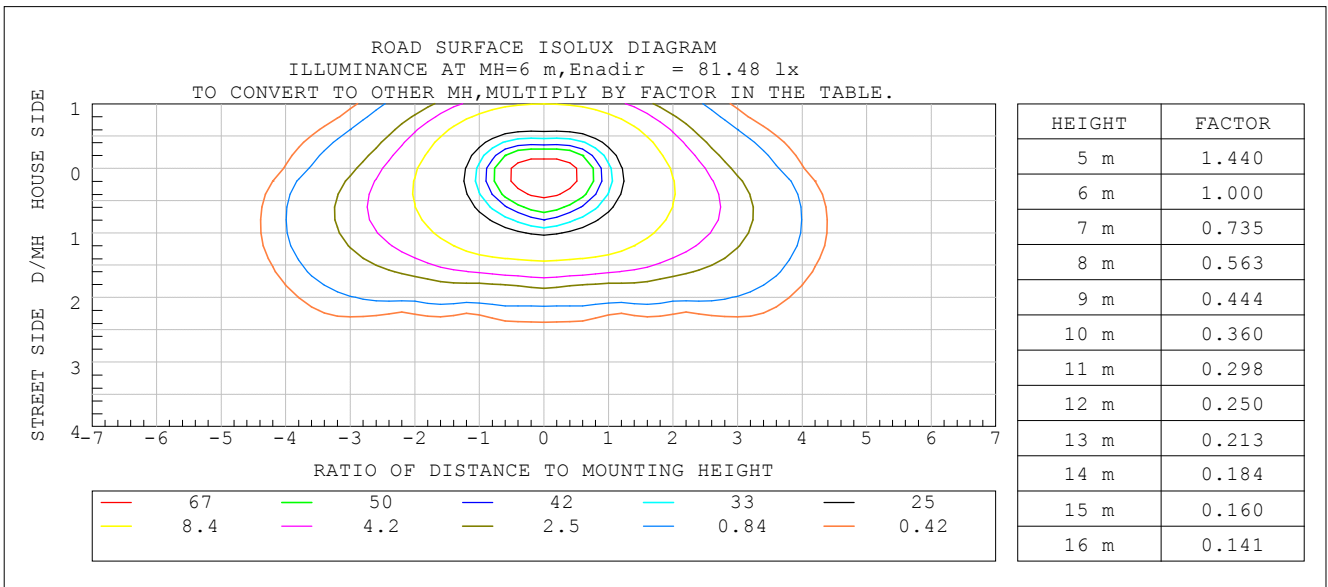
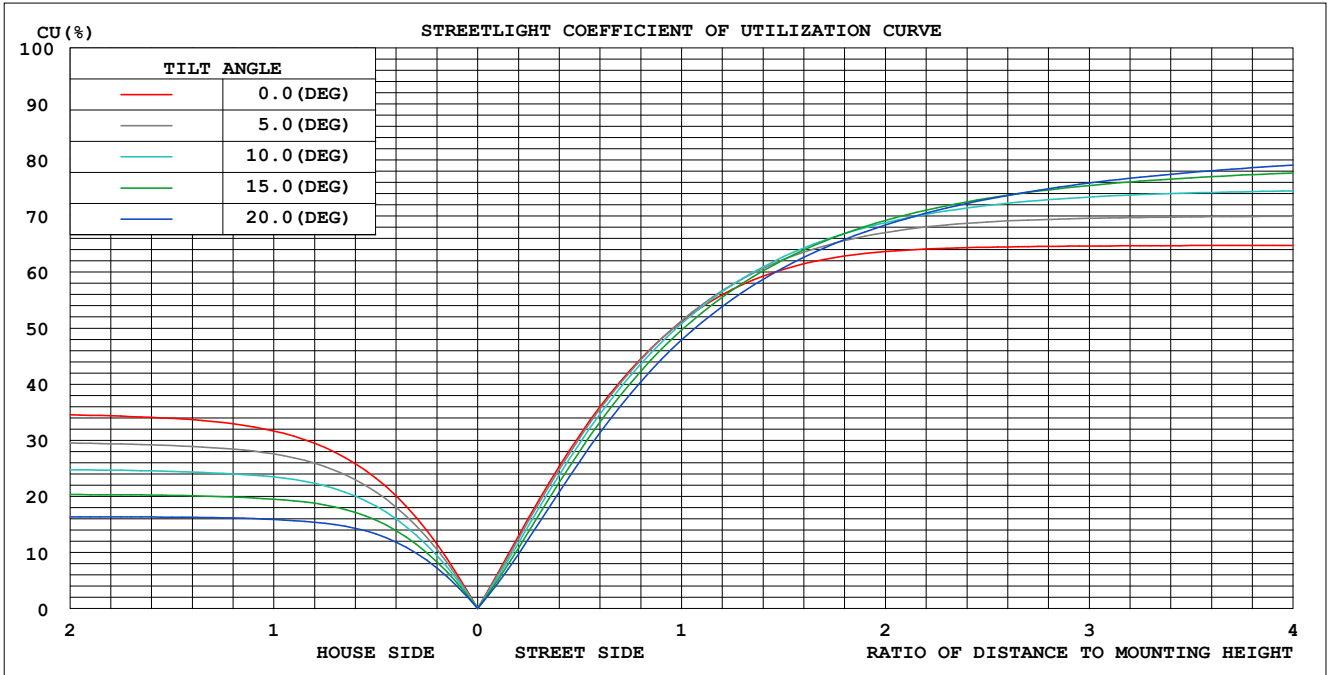
C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-03-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Checker: LI

Assessor:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2019-03-11

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.470m [K=1.0000]
Remarks:

Checker: LI

Assessor:

ZONAL FLUX DIAGRAM

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	2983	3082	3092	3082	2983	2807	2708	2807	0- 5	70.33	70.33	0.70,0.70
10	3059	3205	3179	3205	3059	2673	2427	2673	5- 10	210.4	280.8	2.79,2.79
15	3155	3293	3209	3293	3155	2513	2104	2513	10- 15	346.5	627.3	6.24,6.24
20	3263	3347	3209	3347	3263	2340	1799	2340	15- 20	475.7	1103	11,11
25	3376	3370	3186	3370	3376	2180	1537	2180	20- 25	597.1	1700	16.9,16.9
30	3488	3368	3196	3368	3488	2023	1340	2023	25- 30	710.1	2410	24,24
35	3556	3360	3226	3360	3556	1857	1178	1857	30- 35	814.0	3224	32.1,32.1
40	3590	3347	3124	3347	3590	1685	1008	1685	35- 40	902.0	4126	41.1,41.1
45	3571	3289	2763	3289	3571	1501	846.8	1501	40- 45	963.7	5090	50.6,50.6
50	3503	3167	2200	3167	3503	1271	668.9	1271	45- 50	987.6	6078	60.5,60.5
55	3404	2959	1609	2959	3404	974.3	454.8	974.3	50- 55	964.8	7042	70.1,70.1
60	3285	2642	1077	2642	3285	624.6	313.6	624.6	55- 60	897.1	7939	79,79
65	3118	2154	363.4	2154	3118	343.6	255.5	343.6	60- 65	786.4	8726	86.8,86.8
70	2729	1088	180.6	1088	2729	216.5	150.3	216.5	65- 70	649.6	9375	93.3,93.3
75	1489	169.1	41.31	169.1	1489	135.4	21.16	135.4	70- 75	477.0	9852	98,98
80	139.8	50.74	5.194	50.74	139.8	56.09	1.124	56.09	75- 80	176.6	10029	99.8,99.8
85	12.94	7.965	2.530	7.965	12.94	11.85	1.497	11.85	80- 85	18.81	10048	100,100
90	0	0	0	0	0	0	0	0	85- 90	3.151	10051	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

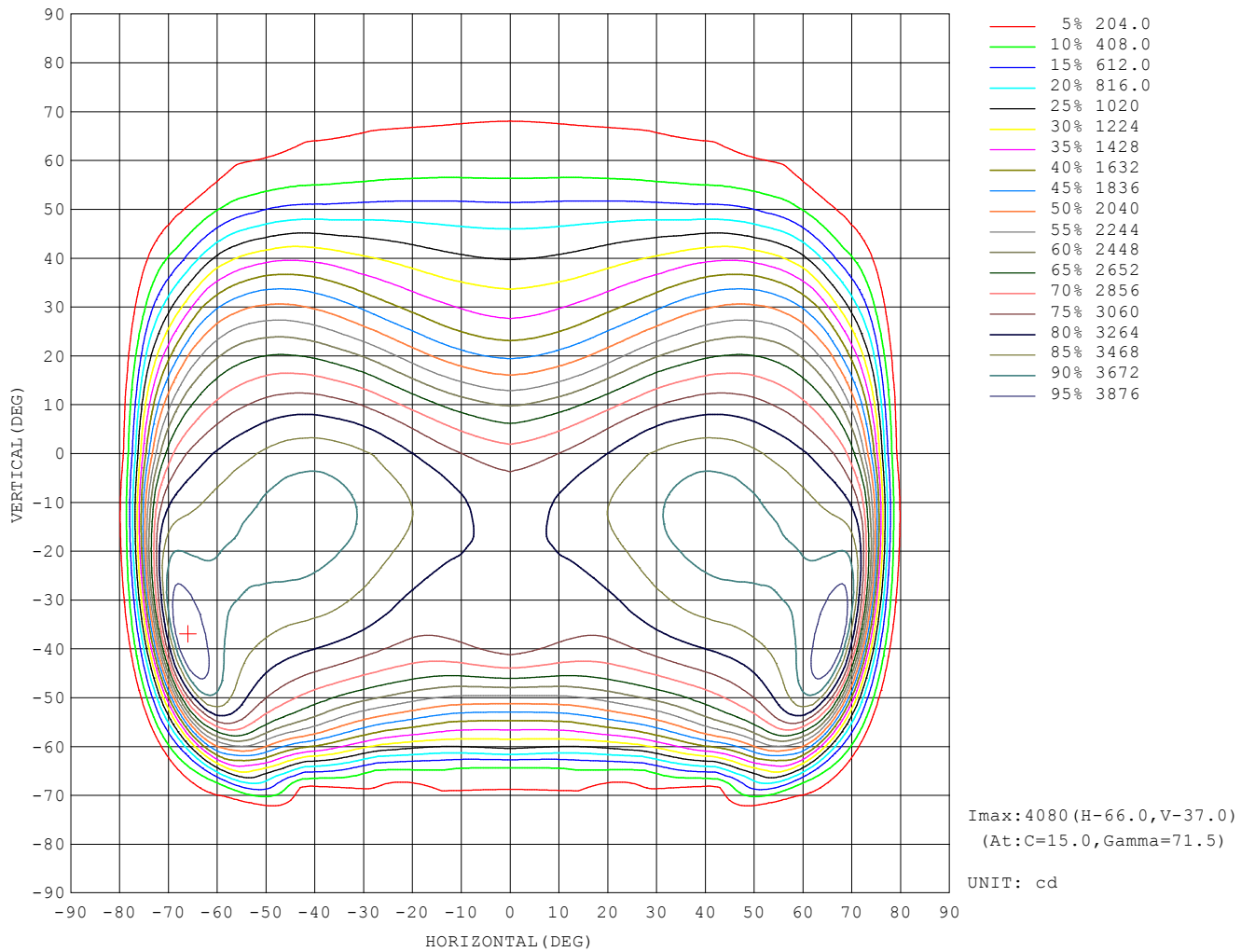
C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-03-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Checker: LI

Assessor:

ISOCANDELA DIAGRAM



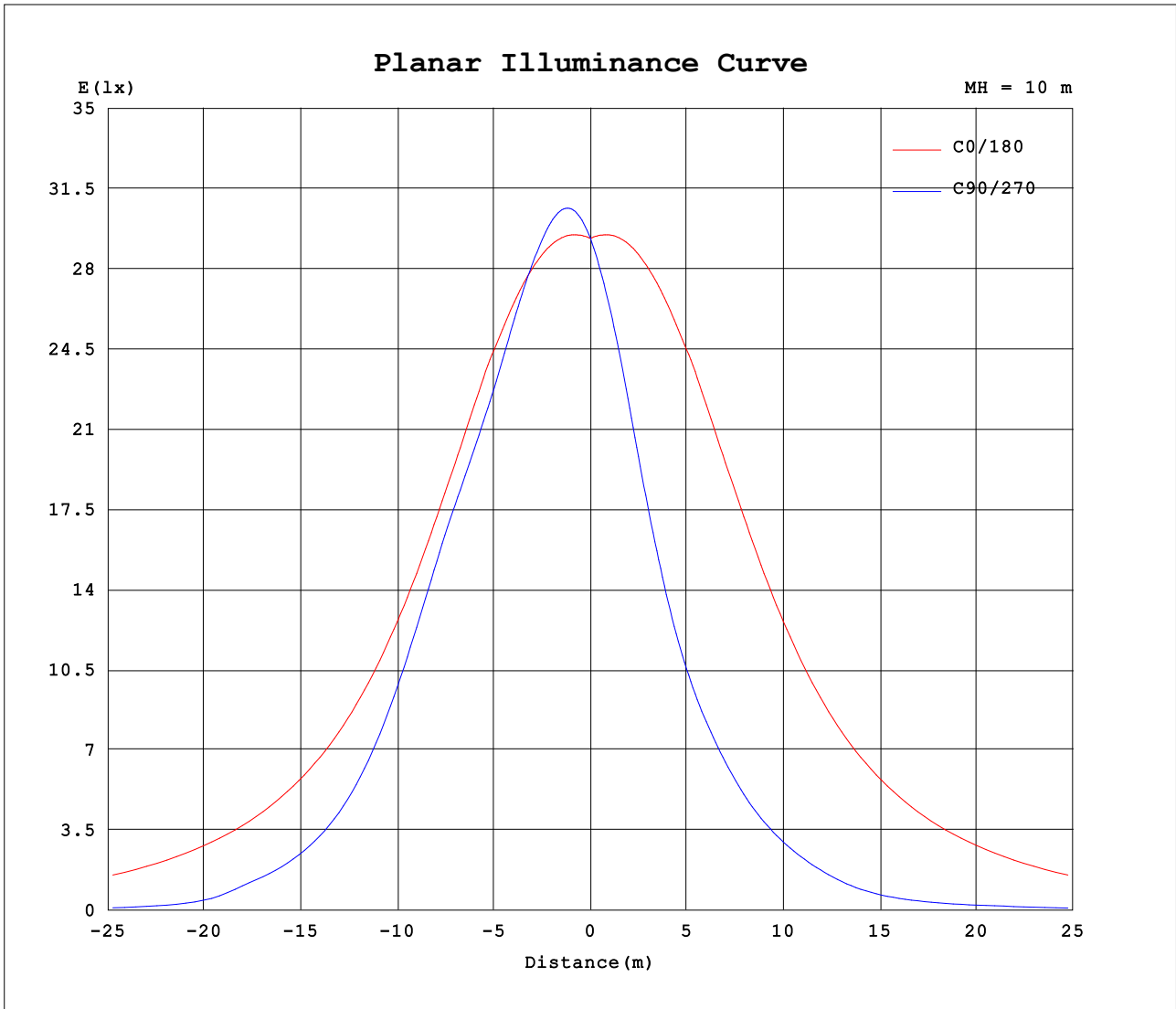
C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2019-03-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity: 65.0%
 Test Distance: 9.470m [K=1.0000]
 Remarks:

Checker: LI

Assessor:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2019-03-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity: 65.0%
 Test Distance: 9.470m [K=1.0000]
 Remarks:

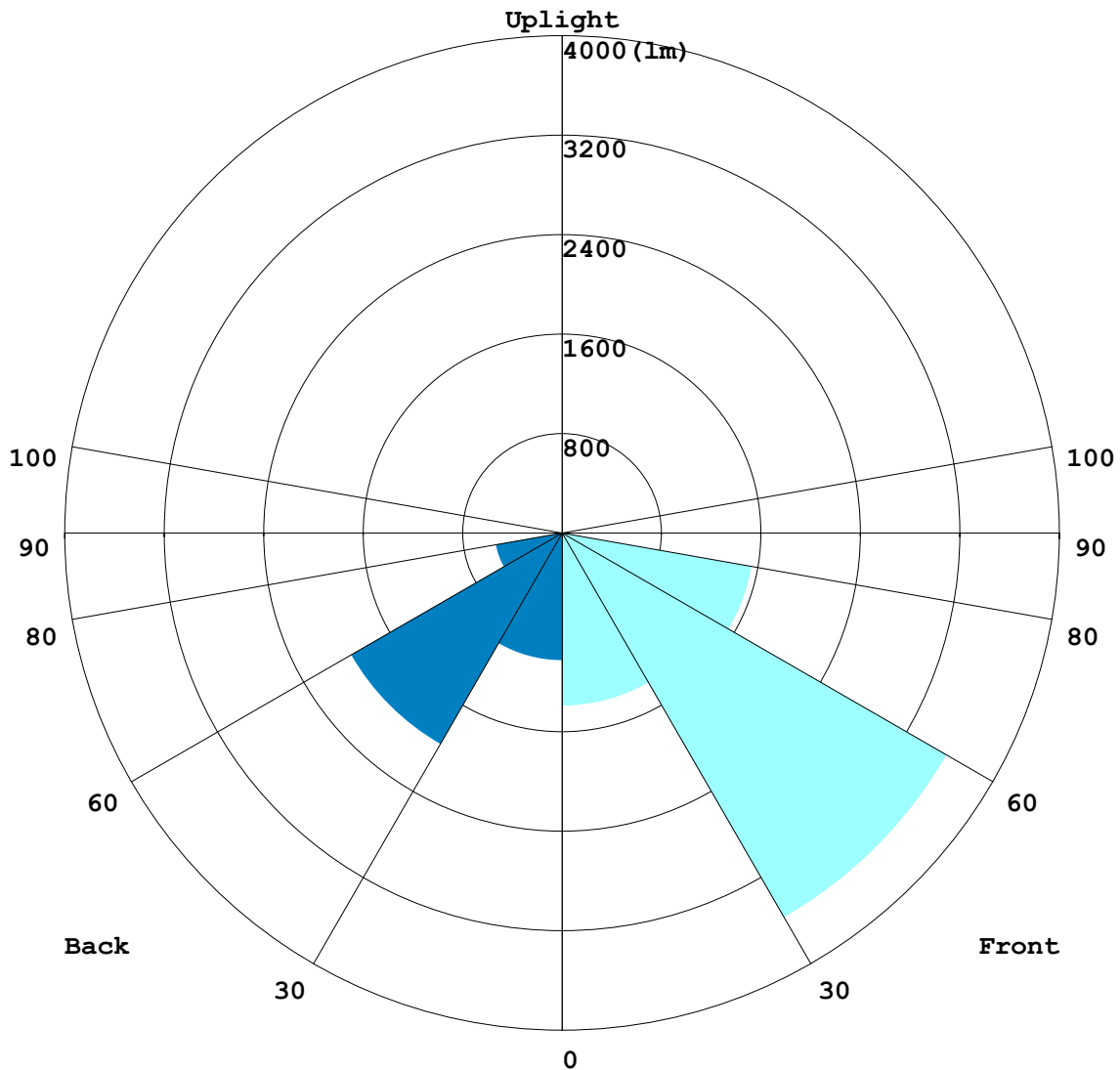
Checker: LI

Assessor:

LCS REPORT

Test:U:230.3V I:0.3335A P:72.30W PF:0.9369 Lamp Flux:10050.8x1 lm		
NAME: ST10-070KT	TYPE:70W	WEIGHT:
SPEC.:4070-T2M-R09603	DIM.:	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-03-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Checker: LI

Assessor:

BUG REPORT

Test:U:230.3V I:0.3335A P:72.30W PF:0.9369 Lamp Flux:10050.8x1 lm		
NAME: ST10-070KT	TYPE:70W	WEIGHT:
SPEC.:4070-T2M-R09603	DIM.:	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1387.5	13.8
FM - Front-Medium(30-60)	3569.6	35.5
FH - Front-High(60-80)	1548.1	15.4
FVH - Front-Very High(80-90)	13.753	0.1
Total Forward Light	6518.9	64.9

BL - Back-Low(0-30)	1022.7	10.2
BM - Back-Medium(30-60)	1959.6	19.5
BH - Back-High(60-80)	541.39	5.4
BVH - Back-Very High(80-90)	8.2074	0.1
Total Back Light	3531.9	35.1

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B3-U0-G2
----------------------------------	-----------------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3531.9	0	3531.9
Street Side	6518.9	0	6518.9

C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-03-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

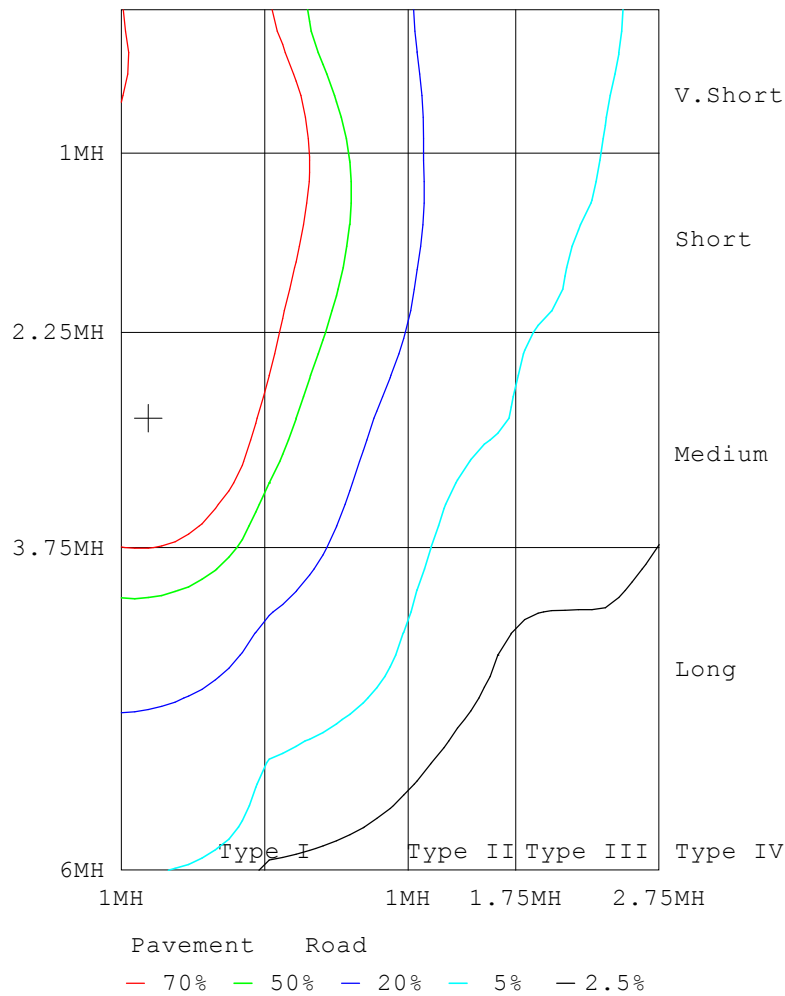
Checker: LI

Assessor:

ROAD ISOCANDELA REPORT

Test:U:230.3V I:0.3335A P:72.30W PF:0.9369 Lamp Flux:10050.8x1 lm		
NAME: ST10-070KT	TYPE:70W	WEIGHT:
SPEC.:4070-T2M-R09603	DIM.:	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-03-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Checker: LI

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--3

UNIT: cd

C (DEG) \ γ (DEG)	95	97.5	100	102.5	105	107.5	110	112.5	115	117.5	120	122.5	125	127.5	130	132.5	135	137.5	140
0	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933
5	3094	3095	3096	3097	3098	3097	3097	3096	3094	3093	3092	3090	3089	3088	3086	3084	3082	3079	3076
10	3184	3187	3189	3192	3194	3195	3197	3198	3199	3199	3200	3202	3203	3204	3205	3205	3205	3204	3202
15	3216	3220	3224	3228	3233	3237	3241	3246	3250	3255	3260	3266	3272	3278	3283	3289	3293	3297	3300
20	3216	3221	3226	3232	3239	3245	3251	3258	3266	3274	3283	3293	3304	3315	3326	3337	3347	3357	3367
25	3192	3196	3201	3206	3212	3217	3224	3232	3240	3250	3262	3277	3293	3311	3330	3350	3370	3394	3417
30	3192	3190	3189	3188	3188	3189	3191	3196	3202	3211	3223	3241	3262	3286	3311	3339	3368	3402	3436
35	3208	3197	3184	3172	3162	3155	3152	3151	3154	3161	3172	3194	3221	3252	3285	3322	3360	3403	3445
40	3103	3090	3076	3064	3053	3050	3049	3053	3062	3075	3094	3126	3164	3206	3251	3298	3347	3396	3444
45	2757	2756	2759	2766	2776	2796	2820	2849	2882	2919	2960	3009	3061	3116	3172	3230	3289	3347	3404
50	2212	2228	2252	2282	2320	2372	2431	2495	2563	2636	2711	2786	2862	2939	3016	3092	3167	3240	3310
55	1617	1633	1660	1696	1744	1816	1898	1989	2087	2191	2299	2409	2520	2632	2744	2853	2959	3056	3147
60	1067	1073	1087	1111	1147	1209	1283	1370	1469	1579	1700	1847	2001	2160	2322	2484	2642	2780	2912
65	364	374	390	414	447	481	527	588	664	760	877	1058	1258	1472	1696	1925	2154	2362	2564
70	182	185	188	192	198	183	173	170	180	204	246	322	421	545	697	877	1088	1399	1732
75	57.5	68.9	81.5	94.3	107	110	112	114	116	117	120	83.0	54.5	41.6	51.5	91.6	169	386	639
80	14.3	20.7	27.8	35.0	41.9	44.8	47.0	48.6	49.7	50.3	50.6	47.4	44.6	42.8	42.8	45.2	50.7	63.9	80.8
85	3.42	4.07	4.79	5.53	6.24	6.53	6.75	6.91	7.04	7.14	7.22	7.23	7.25	7.31	7.44	7.65	7.97	8.81	9.74
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-03-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Checker: LI

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--5

UNIT: cd

C (DEG) \ γ (DEG)	190	192.5	195	197.5	200	202.5	205	207.5	210	212.5	215	217.5	220	222.5	225	227.5	230	232.5	235
0	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933	2933
5	2946	2936	2926	2916	2906	2896	2885	2875	2865	2855	2845	2835	2825	2816	2807	2798	2789	2781	2773
10	2983	2963	2942	2920	2898	2876	2853	2830	2807	2785	2762	2739	2717	2695	2673	2652	2631	2611	2591
15	3041	3010	2977	2942	2906	2869	2831	2793	2754	2714	2673	2632	2592	2552	2513	2475	2438	2402	2368
20	3116	3073	3027	2976	2923	2869	2813	2755	2696	2636	2575	2515	2455	2397	2340	2287	2237	2188	2142
25	3191	3134	3074	3006	2935	2862	2786	2709	2631	2554	2476	2400	2325	2251	2180	2113	2049	1989	1932
30	3247	3176	3100	3017	2930	2841	2749	2656	2563	2469	2376	2284	2194	2107	2023	1946	1873	1805	1741
35	3261	3177	3088	2992	2892	2789	2684	2578	2472	2364	2256	2151	2049	1951	1857	1776	1700	1630	1565
40	3242	3144	3041	2929	2813	2695	2576	2456	2337	2219	2104	1992	1884	1782	1685	1602	1527	1457	1394
45	3176	3066	2952	2828	2701	2572	2442	2313	2185	2059	1937	1819	1707	1600	1501	1417	1340	1271	1209
50	3061	2940	2815	2679	2541	2401	2261	2122	1985	1852	1723	1599	1482	1373	1271	1188	1114	1047	989
55	2890	2752	2612	2461	2308	2155	2003	1853	1706	1566	1432	1304	1185	1074	974	897	829	771	721
60	2643	2478	2313	2136	1960	1787	1618	1455	1299	1160	1031	913	805	709	625	563	513	473	441
65	2223	2016	1817	1616	1424	1243	1074	919	779	671	579	501	437	385	344	313	291	276	267
70	1478	1234	1020	848	704	584	486	408	348	300	266	242	227	219	217	207	201	196	192
75	587	432	306	235	188	162	152	154	164	155	148	144	140	138	135	129	122	115	108
80	93.9	85.8	79.0	75.0	72.2	70.3	69.2	68.4	67.9	66.5	65.0	63.3	61.3	58.9	56.1	51.3	46.1	40.6	34.9
85	16.3	16.8	17.1	17.2	17.2	17.1	16.8	16.5	16.0	15.5	14.9	14.3	13.5	12.7	11.9	10.8	9.65	8.51	7.38
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-03-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Checker: LI

Assessor:

