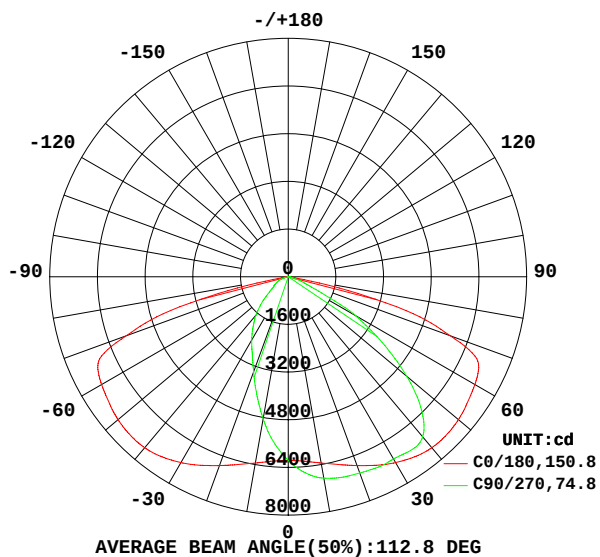
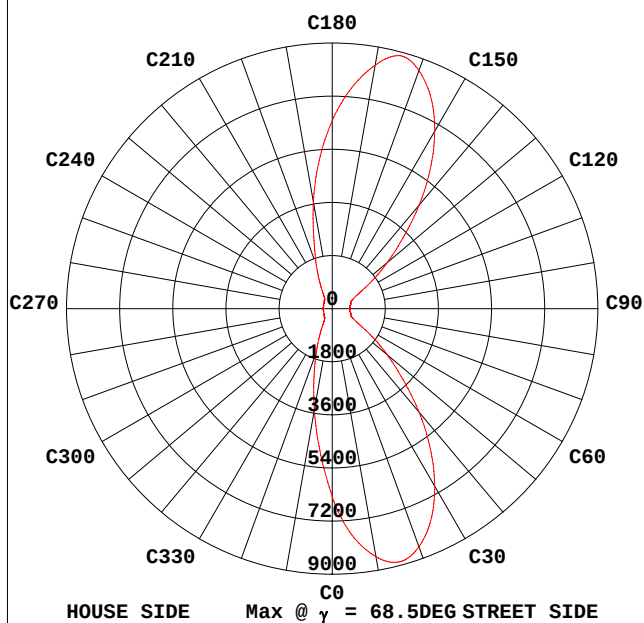


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:229.9V I:0.7979A P:177.4W PF:0.9671 Lamp Flux:21122x1 lm		
NAME: ST07-180	TYPE:	WEIGHT:
SPEC.:4000K Ra70 R17601	DIM.: 0.755*0.35*0.15	SERIAL No.:
MFR.:	SUR.:0.24*0.25	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 118.64 lm/W			
MODEL	ST07-180	I _{max} (cd)	8876	η street_up(%)	0.0
NOMINAL POWER(W)	180	LOR(%)	99.6	η street_down(%)	67.8
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	21043	η house_up(%)	0.0
NOMINAL FLUX(lm)	21122	MAXIMUM @(C,γ)	15,68.5	η house_down(%)	31.8
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	230	η down(%)	99.6	SLI	

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

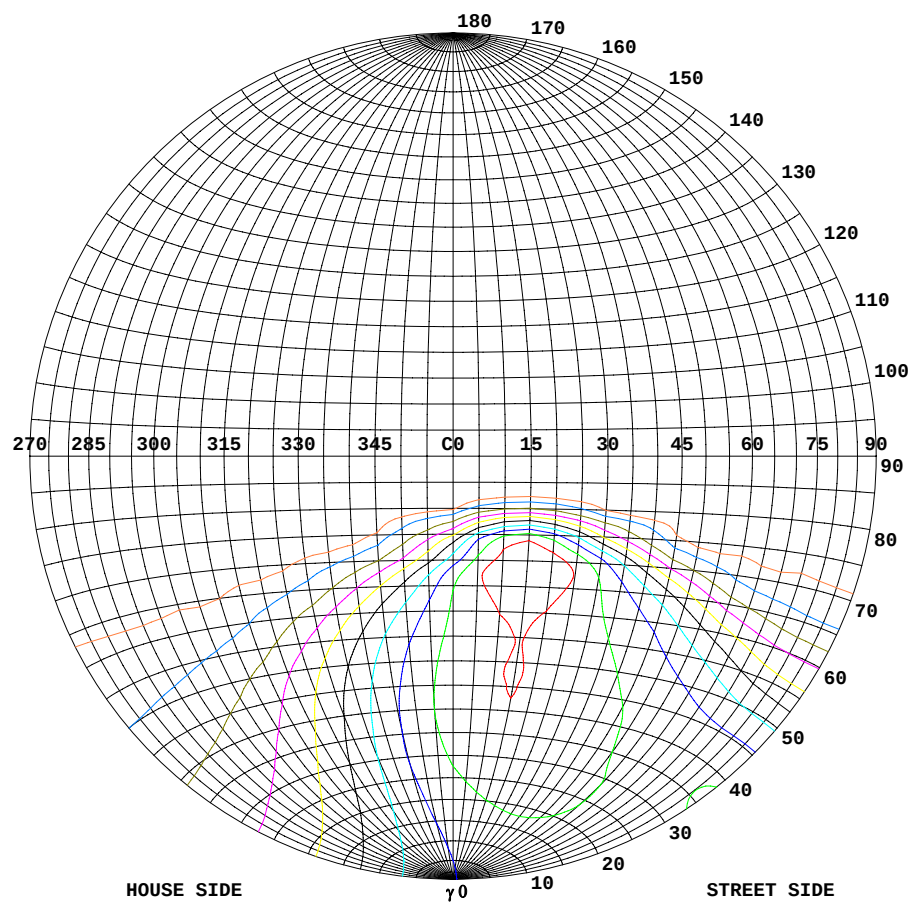
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2016-11-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Checker:
 Note: SLI:Specific Luminaire Index

Assessor:

STREETLIGHT ISOCANDELA DIAGRAM



Classification:
IES:Type II - Medium
CIE:Average - Intermediate
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:87.44cd/klm
Max.At90:0cd/klm
Max.80-90:87.44cd/klm
NRB 5101:Limited[5.0%]

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	8876
90%	7989
80%	7101
70%	6213
60%	5326
50%	4438
40%	3551
30%	2663
20%	1775
10%	888
5%	444

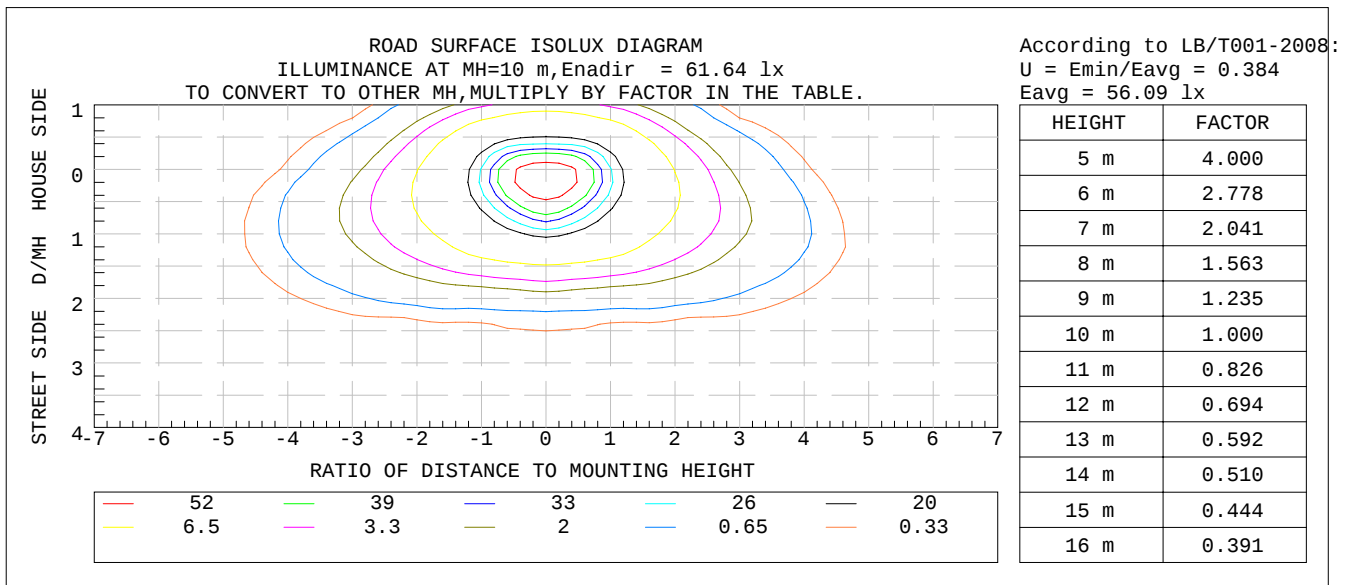
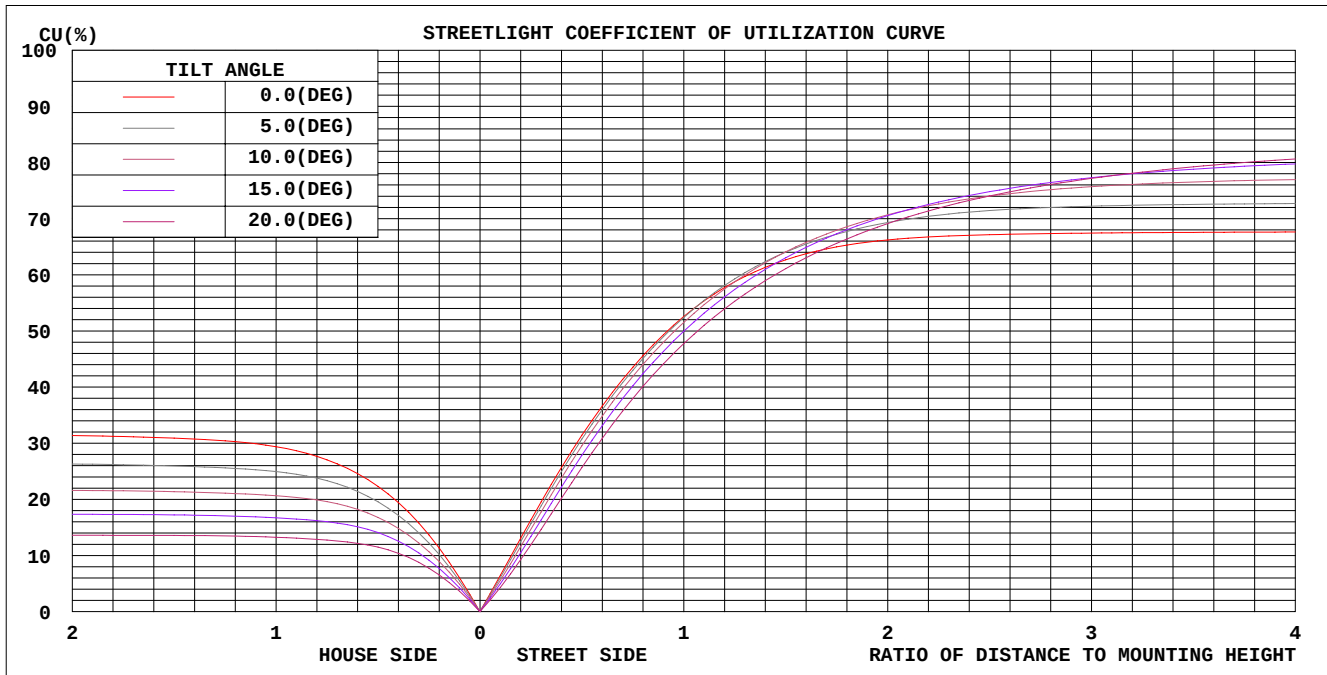
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2016-11-29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.470m [K=1.0000]
Remarks:

Checker:

Assessor:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2016-11-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.470m [K=1.0000]
Remarks:

Checker:

Assessor:

ZONAL FLUX DIAGRAM

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum, lamp
5	6214	6509	6604	6509	6214	5769	5577	5769	0- 5	147.1	147.1	0.70, 0.70
10	6347	6804	6864	6804	6347	5353	4850	5353	5- 10	437.7	584.8	2.78, 2.77
15	6522	7008	6966	7008	6522	4899	4089	4899	10- 15	716.1	1301	6.18, 6.16
20	6741	7124	7011	7124	6741	4454	3395	4454	15- 20	978.0	2279	10.8, 10.8
25	6980	7187	7065	7187	6980	4062	2863	4062	20- 25	1224	3503	16.6, 16.6
30	7201	7197	7063	7197	7201	3697	2457	3697	25- 30	1457	4960	23.6, 23.5
35	7379	7193	7128	7193	7379	3330	2061	3330	30- 35	1670	6630	31.5, 31.4
40	7493	7167	7015	7167	7493	2969	1692	2969	35- 40	1853	8483	40.3, 40.2
45	7505	7063	6326	7063	7505	2596	1290	2596	40- 45	1986	10469	49.8, 49.6
50	7456	6848	5189	6848	7456	2106	886.3	2106	45- 50	2040	12510	59.4, 59.2
55	7347	6523	3854	6523	7347	1443	620.2	1443	50- 55	2005	14515	69, 68.7
60	7231	5977	2621	5977	7231	865.4	511.8	865.4	55- 60	1893	16408	78, 77.7
65	7049	4838	1028	4838	7049	510.1	410.1	510.1	60- 65	1697	18105	86, 85.7
70	5774	2599	513.0	2599	5774	347.5	260.2	347.5	65- 70	1415	19521	92.8, 92.4
75	3386	562.9	165.1	562.9	3386	193.7	73.61	193.7	70- 75	999.2	20520	97.5, 97.1
80	345.5	203.4	54.50	203.4	345.5	66.77	8.284	66.77	75- 80	443.8	20964	99.6, 99.3
85	49.50	56.14	31.85	56.14	49.50	17.08	8.867	17.08	80- 85	66.52	21030	99.9, 99.6
90	0	0	0	0	0	0	0	0	85- 90	12.49	21043	100, 99.6
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		

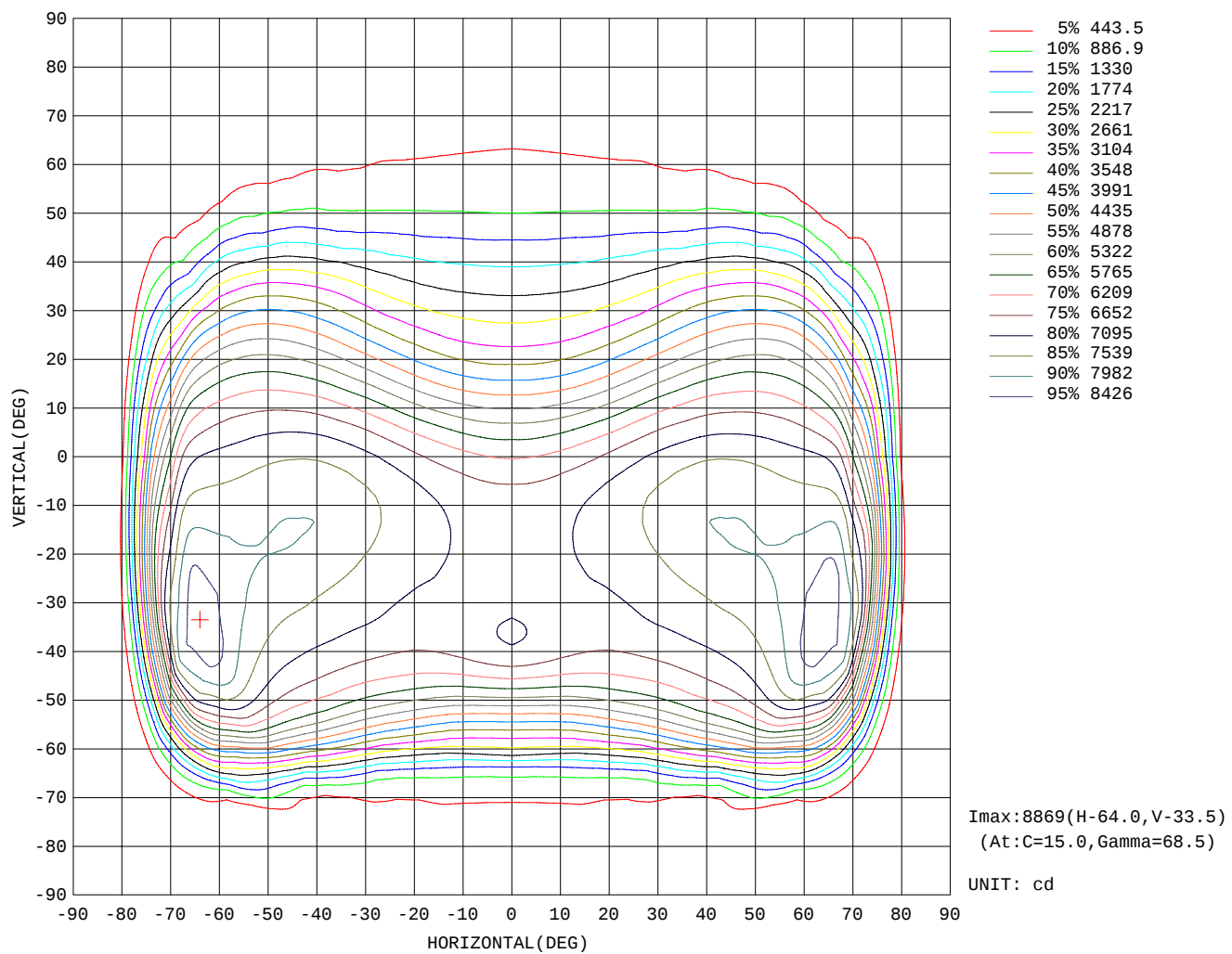
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2016-11-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Checker:

Assessor:

ISOCANDELA DIAGRAM

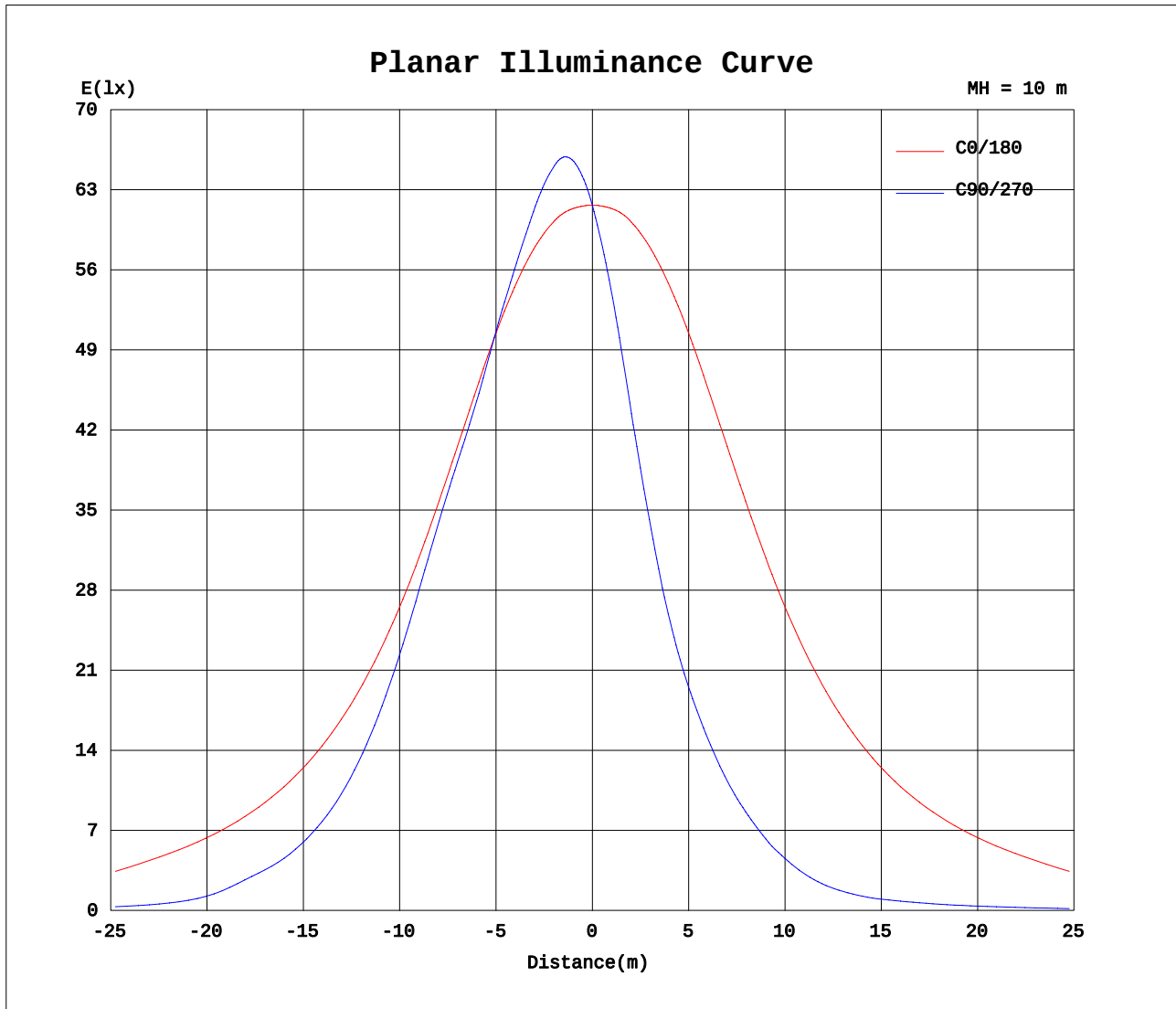


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2016-11-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.470m [K=1.0000]
Remarks:

Checker:

Assessor:

Planar Illuminance Curve

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2016-11-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.470m [K=1.0000]
Remarks:

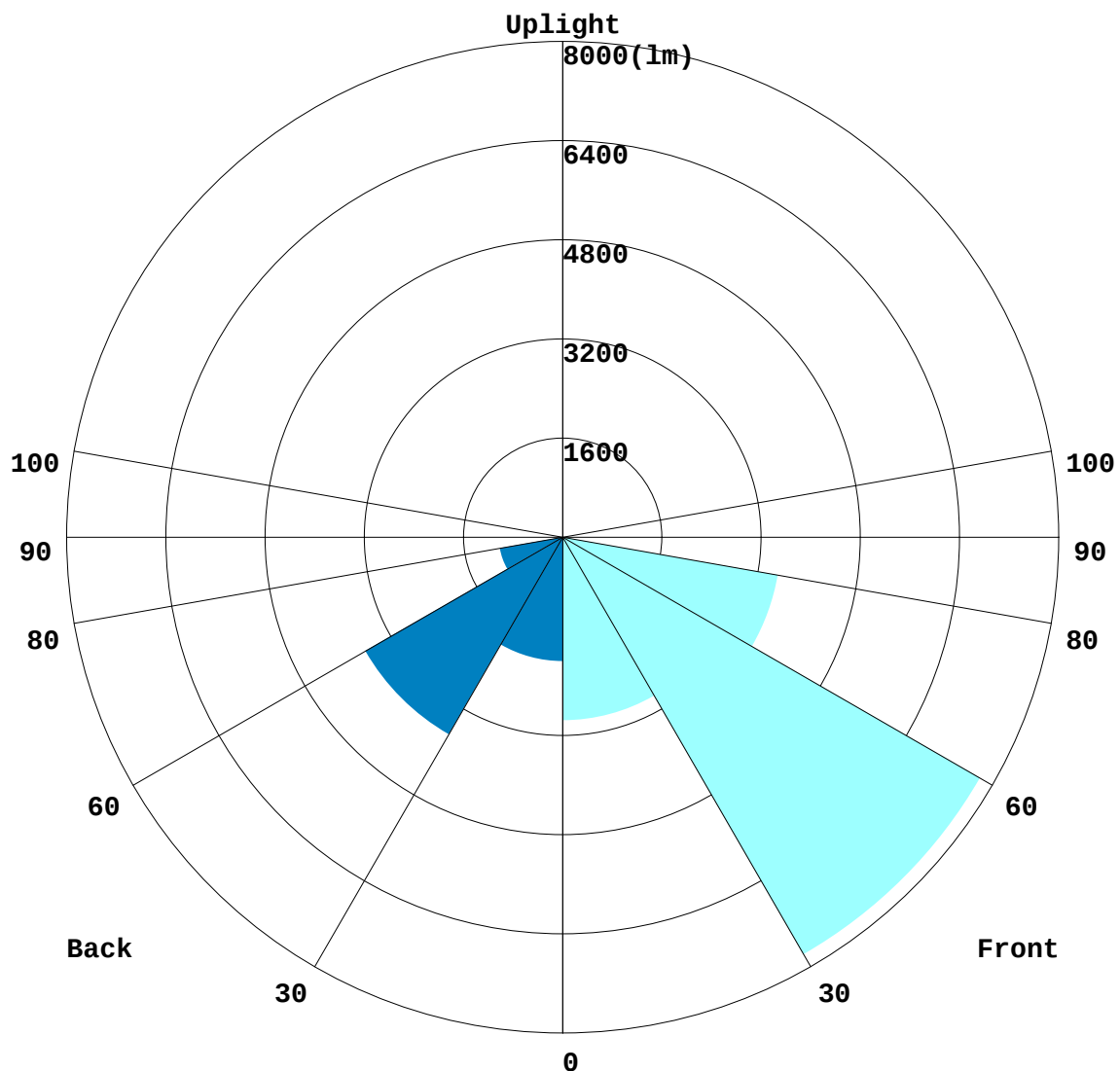
Checker:

Assessor:

LCS REPORT

Test:U:229.9V I:0.7979A P:177.4W PF:0.9671 Lamp Flux:21122x1 lm		
NAME: ST07-180	TYPE:	WEIGHT:
SPEC.:4000K Ra70 R17601	DIM.: 0.755*0.35*0.15	SERIAL No.:
MFR.:	SUR.:0.24*0.25	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2016-11-29

Checker:

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Assessor:

BUG REPORT

Test:U:229.9V I:0.7979A P:177.4W PF:0.9671 Lamp Flux:21122x1 lm		
NAME: ST07-180	TYPE:	WEIGHT:
SPEC.:4000K Ra70 R17601	DIM.: 0.755*0.35*0.15	SERIAL No.:
MFR.:	SUR.:0.24*0.25	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	2957.5	14.1
FM - Front-Medium(30-60)	7773.7	36.9
FH - Front-High(60-80)	3526.6	16.8
FVH - Front-Very High(80-90)	62.668	0.3
Total Forward Light	14320	68.1

BL - Back-Low(0-30)	2003	9.5
BM - Back-Medium(30-60)	3673.9	17.5
BH - Back-High(60-80)	1029	4.9
BVH - Back-Very High(80-90)	16.34	0.1
Total Back Light	6722.2	31.9

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-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	6722.2	0	6722.2
Street Side	14320	0	14320

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2016-11-29

Checker:

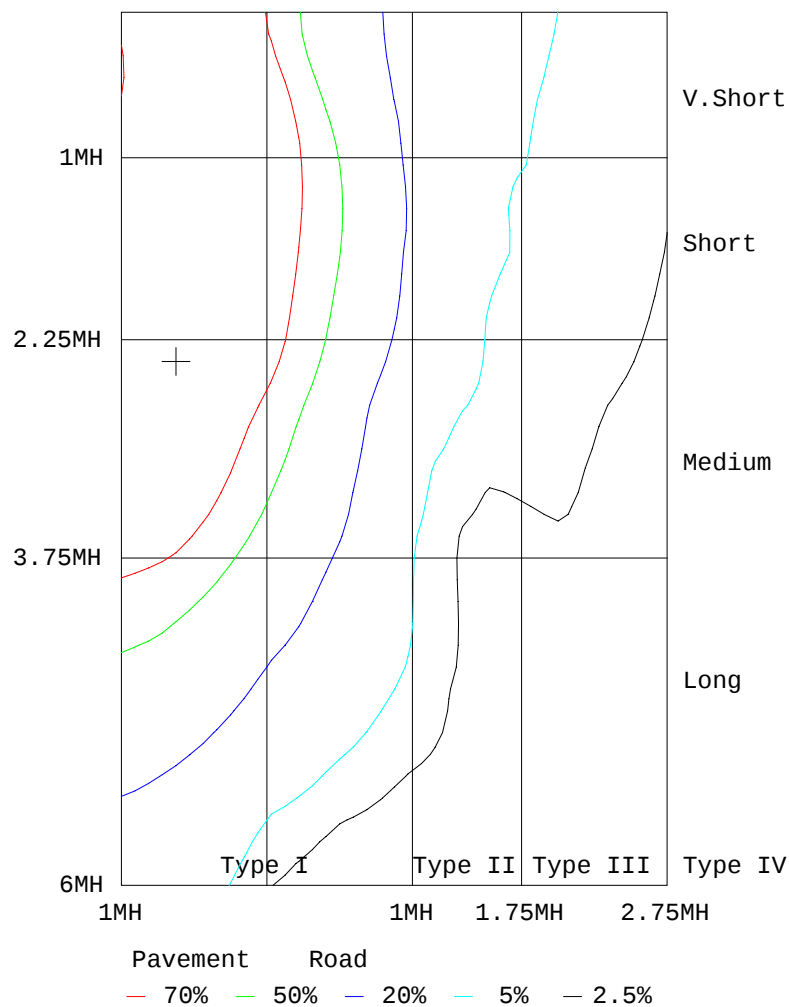
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Assessor:

ROAD ISOCANDELA REPORT

Test:U:229.9V I:0.7979A P:177.4W PF:0.9671 Lamp Flux:21122x1 lm		
NAME: ST07-180	TYPE:	WEIGHT:
SPEC.:4000K Ra70 R17601	DIM.: 0.755*0.35*0.15	SERIAL No.:
MFR.:	SUR.:0.24*0.25	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2016-11-29

Checker:

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Assessor:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table - - 2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2016-11-29

Checker :

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.470m [K=1.0000]
Remarks:

```

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table - - 3

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2016-11-29

Checker :

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.470m [K=1.0000]
Remarks:

```

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

UNIT: cd

[illegible]

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.470m [K=1.0000]
Remarks:

```

Assessor: