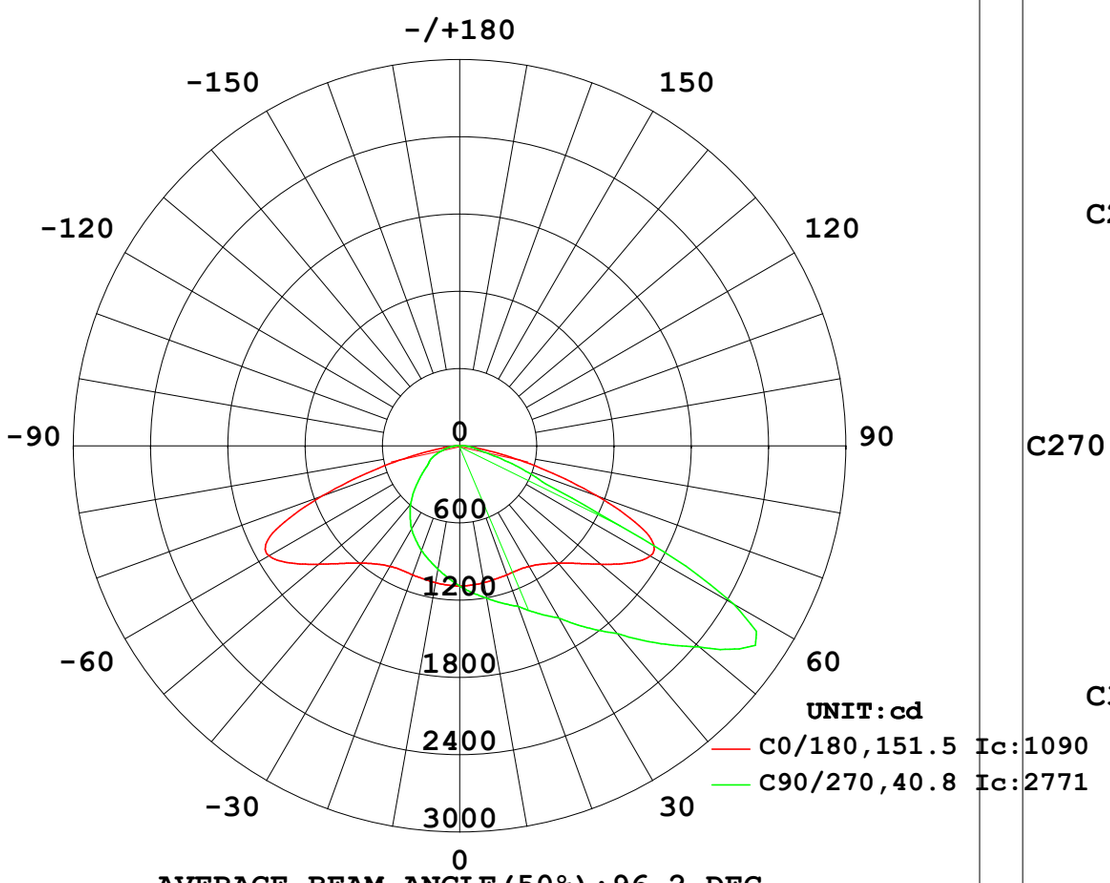
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.1V I:0.1902A P:40.07W PF:0.9147 Lamp Flux:5618.77x1 lm		
NAME: WP01-040	TYPE:40W	WEIGHT:
SPEC.:5000K Ra70 R08401	DIM.: 0.296*0.15*0.223	SERIAL No.:
MFR.:	SUR.:0.265*0.085	Shielding Angle:

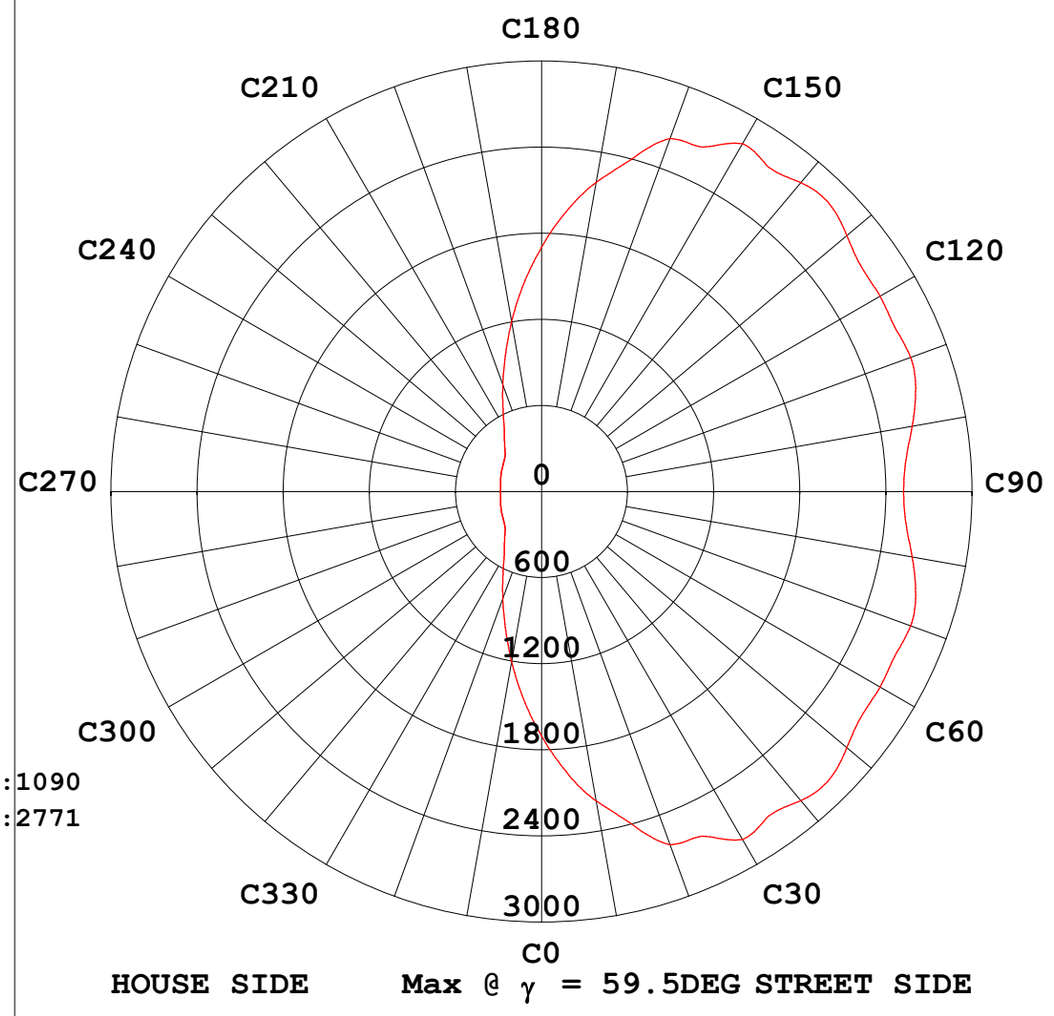
DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.22 lm/W			
MODEL	WP01-040	Imax(cd)	2837	η street_up(%)	0.0
NOMINAL POWER(W)	40	LOR(%)	100.0	η street_down(%)	71.6
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5619	η house_up(%)	0.0
NOMINAL FLUX(lm)	5618.77	MAXIMUM @(C,γ)	45,59.5	η house_down(%)	28.4
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	230	η down(%)	100.0	SLI	

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



AVERAGE BEAM ANGLE(50%):96.2 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



HOUSE SIDE Max @ γ = 59.5DEG STREET SIDE

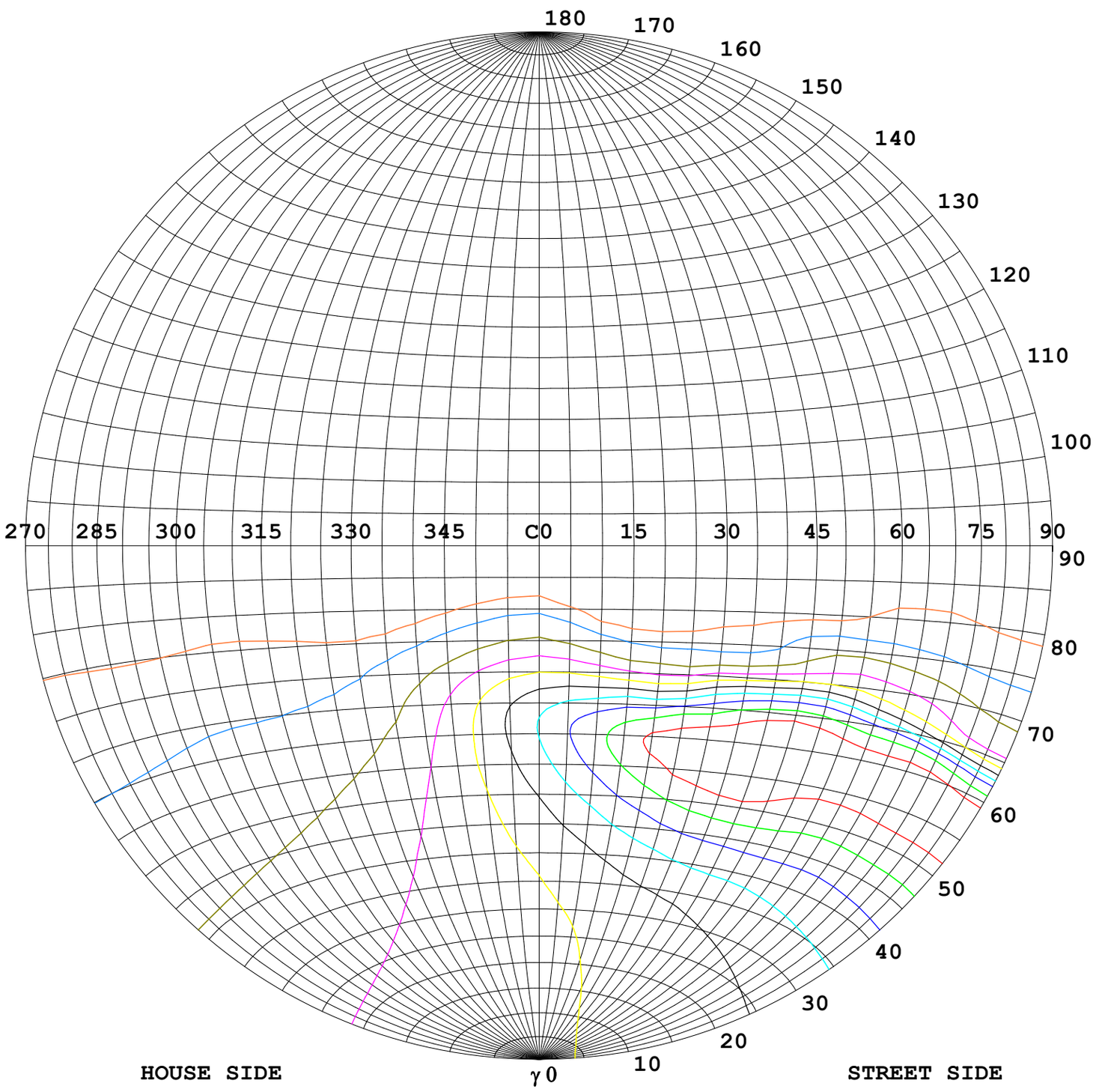
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Checker:
Note: SLI:Specific Luminaire Index

Assessor:

STREETLIGHT ISOCANDELA DIAGRAM



Classification:

IES:Type III - Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:42.04cd/klm
Max.At90:1.317cd/klm
Max.80-90:42.04cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2837
90%	2553
80%	2269
70%	1986
60%	1702
50%	1418
40%	1135
30%	851
20%	567
10%	284
5%	142

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

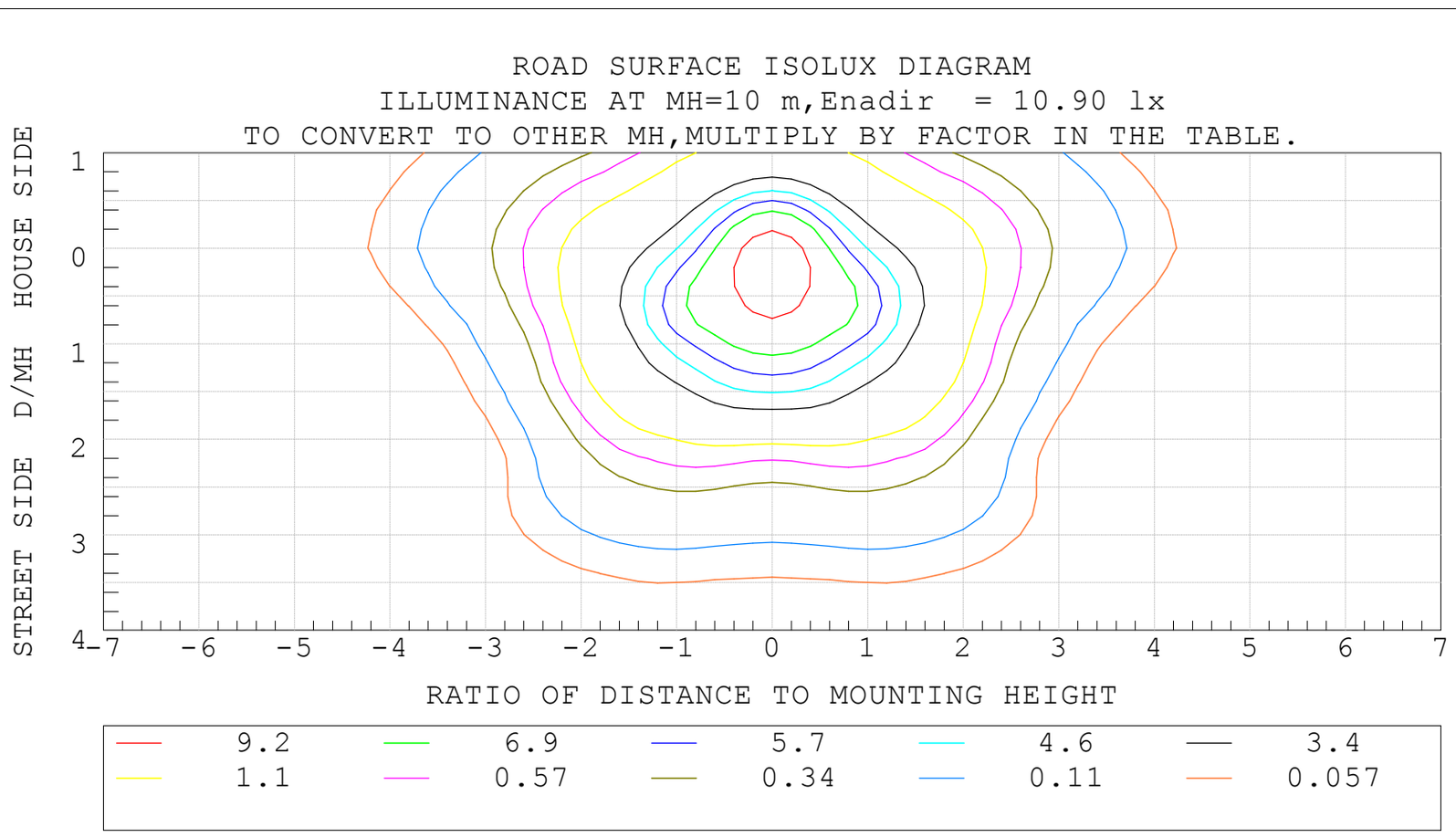
Checker:

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

Checker:

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

ZONAL FLUX DIAGRAM

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	1086	1127	1146	1127	1086	1046	1032	1046	0- 5	26.01	26.01	0.46,0.46
10	1080	1163	1201	1163	1080	1002	973.1	1002	5- 10	77.61	103.6	1.84,1.84
15	1072	1200	1264	1200	1072	957.8	920.1	957.8	10- 15	128.3	231.9	4.13,4.13
20	1068	1246	1327	1246	1068	915.8	867.1	915.8	15- 20	178.1	410.0	7.3,7.3
25	1067	1303	1436	1303	1067	872.7	808.6	872.7	20- 25	227.7	637.7	11.4,11.4
30	1082	1404	1545	1404	1082	827.9	750.0	827.9	25- 30	279.1	916.8	16.3,16.3
35	1123	1561	1724	1561	1123	778.9	672.7	778.9	30- 35	335.3	1252	22.3,22.3
40	1191	1778	1903	1778	1191	722.2	595.5	722.2	35- 40	400.7	1653	29.4,29.4
45	1292	2100	2166	2100	1292	640.1	505.5	640.1	40- 45	477.9	2131	37.9,37.9
50	1432	2464	2430	2464	1432	549.7	415.6	549.7	45- 50	568.5	2699	48,48
55	1591	2709	2728	2709	1591	453.0	341.5	453.0	50- 55	664.5	3364	59.9,59.9
60	1711	2826	2458	2826	1711	353.3	282.6	353.3	55- 60	737.2	4101	73,73
65	1602	2411	963.1	2411	1602	282.1	249.2	282.1	60- 65	683.9	4785	85.2,85.2
70	1129	1143	490.1	1143	1129	233.9	195.2	233.9	65- 70	454.9	5240	93.3,93.3
75	612.3	406.9	210.7	406.9	612.3	160.1	139.5	160.1	70- 75	227.9	5468	97.3,97.3
80	236.2	112.1	125.8	112.1	236.2	78.94	93.28	78.94	75- 80	96.47	5564	99,99
85	46.43	57.39	65.31	57.39	46.43	40.38	48.18	40.38	80- 85	41.57	5606	99.8,99.8
90	3.361	4.975	4.783	4.975	3.361	4.140	3.081	4.140	85- 90	13.07	5619	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		

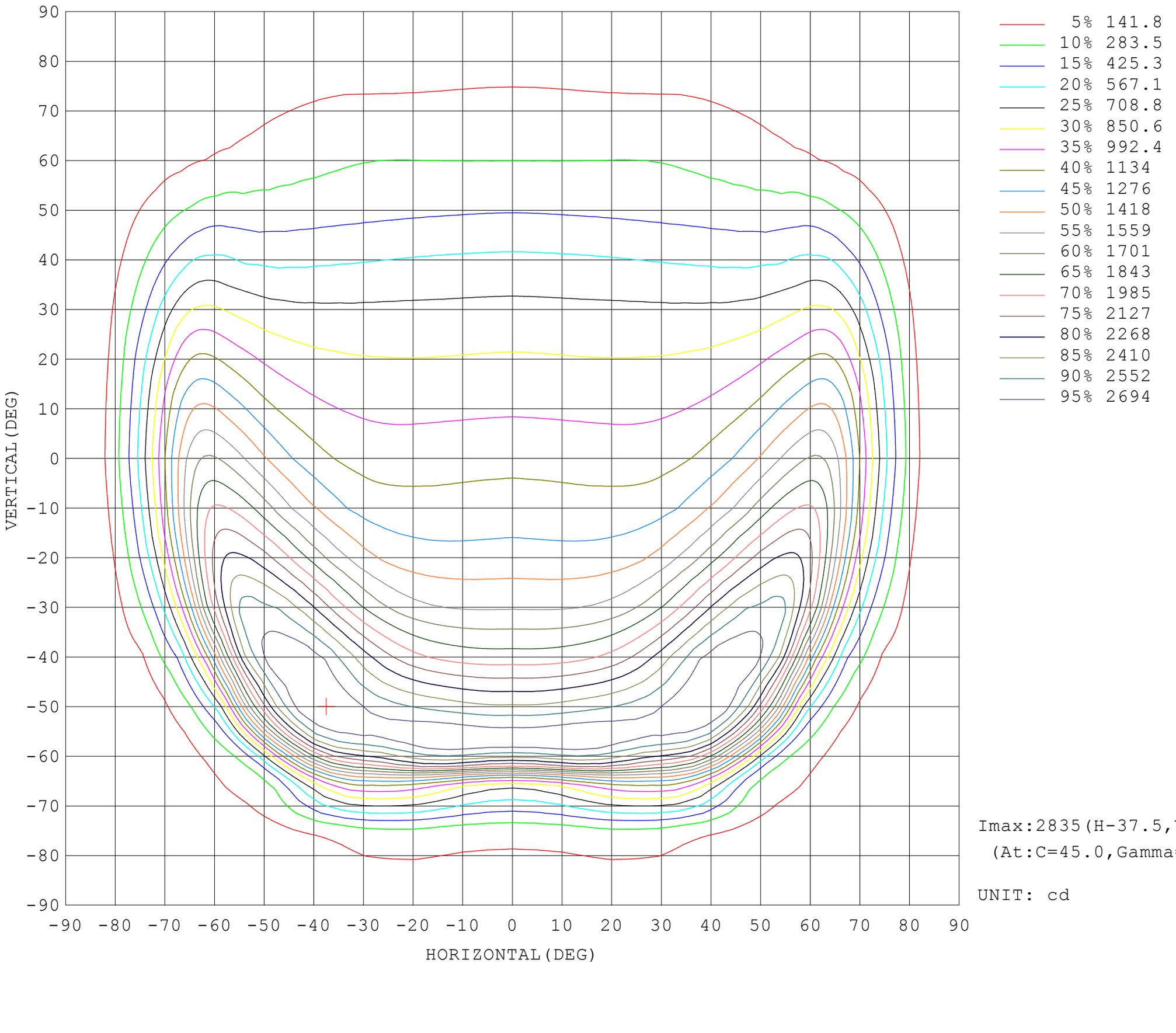
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

Checker:

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

ISOCANDELA DIAGRAM



Imax:2835(H-37.5,V-50.0)
(At:C=45.0,Gamma=59.5)

UNIT: cd

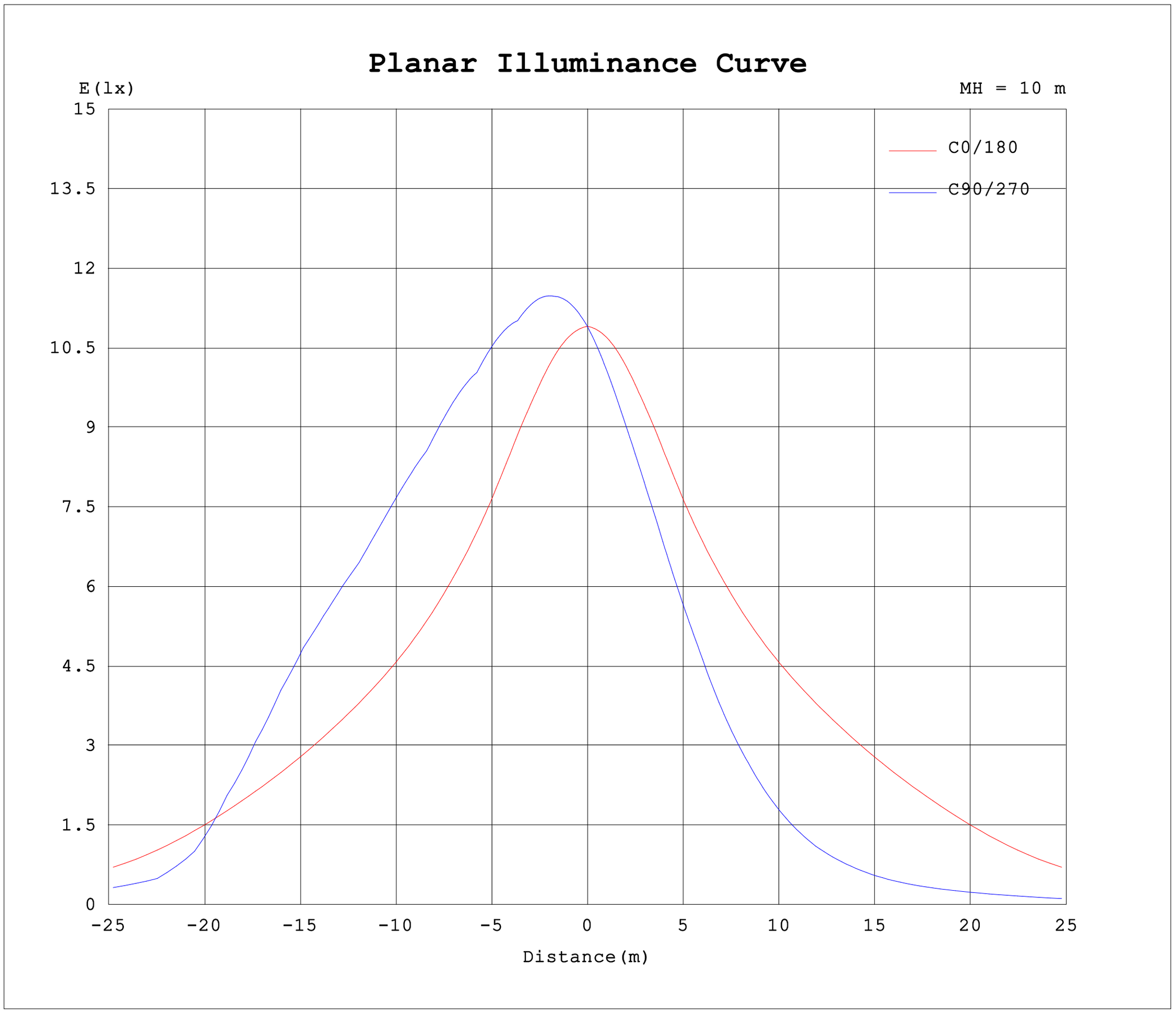
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

Checker:

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

Checker:

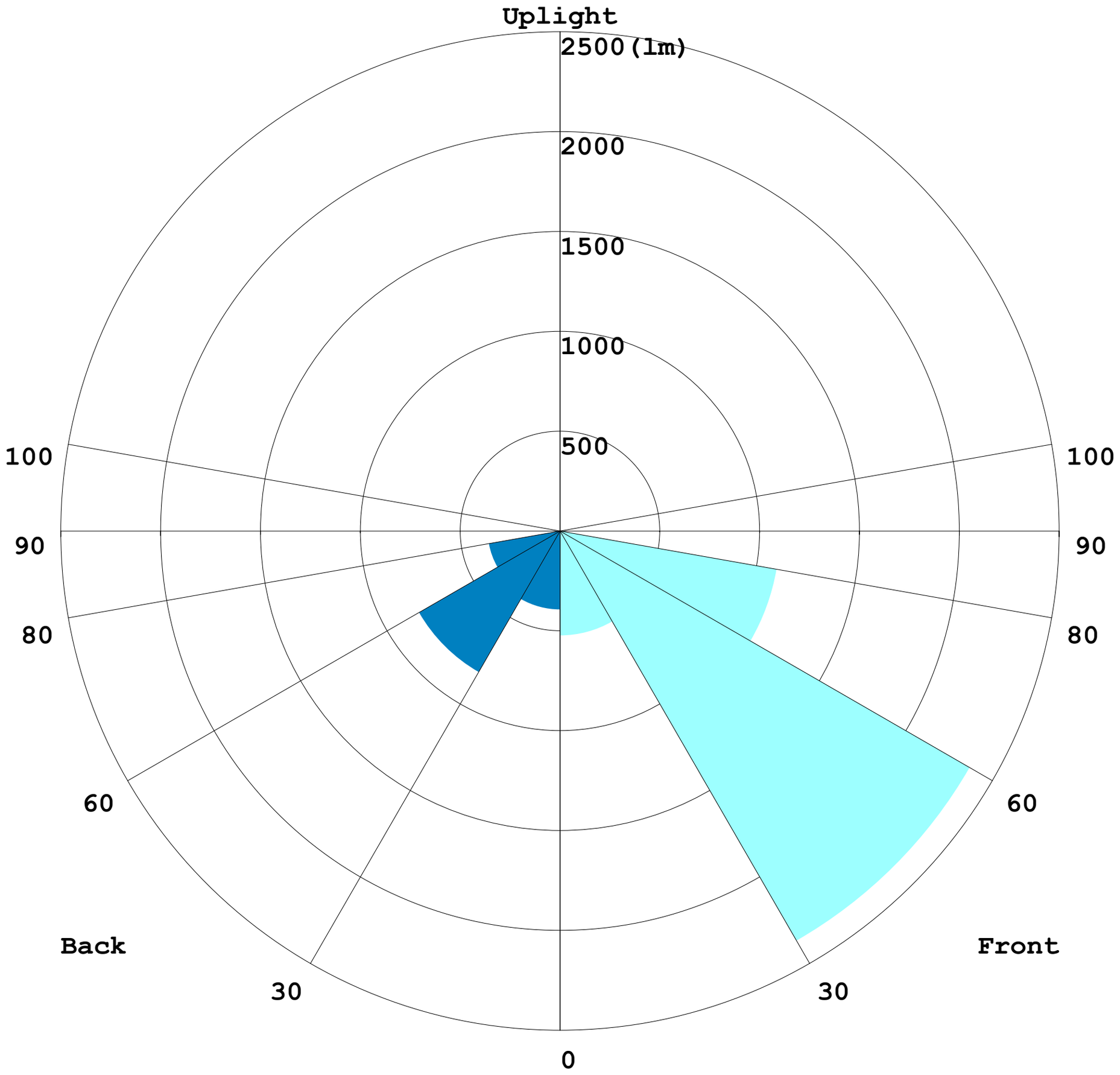
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LCS REPORT

Test:U:230.1V I:0.1902A P:40.07W PF:0.9147 Lamp Flux:5618.77x1 lm		
NAME: WP01-040	TYPE:40W	WEIGHT:
SPEC.:5000K Ra70 R08401	DIM.: 0.296*0.15*0.223	SERIAL No.:
MFR.:	SUR.:0.265*0.085	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

Checker:

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

BUG REPORT

Test:U:230.1V I:0.1902A P:40.07W PF:0.9147 Lamp Flux:5618.77x1 lm		
NAME: WP01-040	TYPE:40W	WEIGHT:
SPEC.:5000K Ra70 R08401	DIM.: 0.296*0.15*0.223	SERIAL No.:
MFR.:	SUR.:0.265*0.085	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	523.47	9.3
FM - Front-Medium(30-60)	2369	42.2
FH - Front-High(60-80)	1101.7	19.6
FVH - Front-Very High(80-90)	30.448	0.5
Total Forward Light	4024.7	71.6

BL - Back-Low(0-30)	393.35	7.0
BM - Back-Medium(30-60)	815.06	14.5
BH - Back-High(60-80)	361.46	6.4
BVH - Back-Very High(80-90)	24.191	0.4
Total Back Light	1594.1	28.4

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	B1-U0-G1

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1594.1	0	1594.1
Street Side	4024.7	0	4024.7

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

Checker:

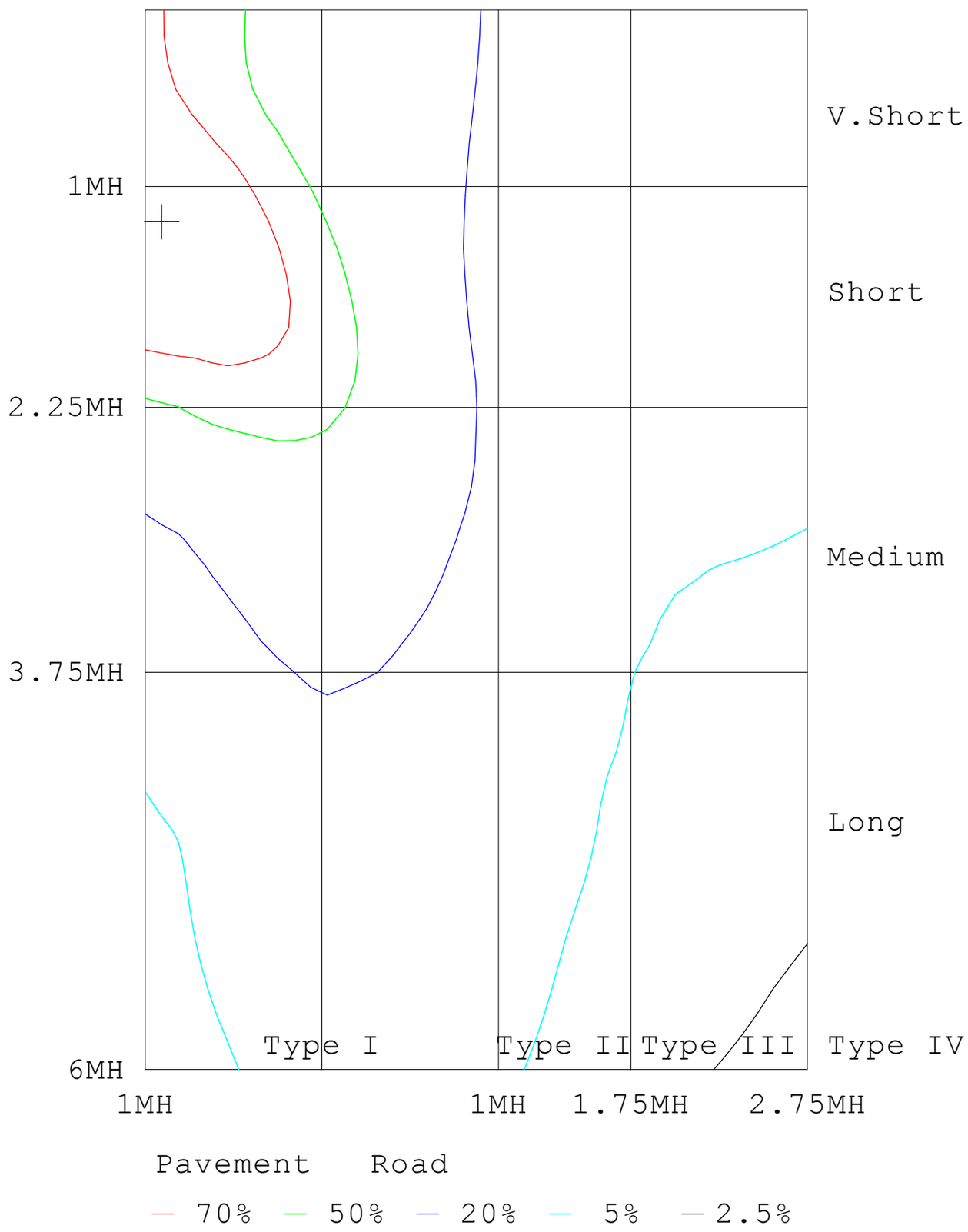
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

ROAD ISOCANDELA REPORT

Test:U:230.1V I:0.1902A P:40.07W PF:0.9147 Lamp Flux:5618.77x1 lm		
NAME: WP01-040	TYPE:40W	WEIGHT:
SPEC.:5000K Ra70 R08401	DIM.: 0.296*0.15*0.223	SERIAL No.:
MFR.:	SUR.:0.265*0.085	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

Checker:

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: cd

C (DEG) / γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090
5	1086	1091	1096	1101	1106	1110	1115	1119	1123	1127	1130	1133	1136	1139	1141	1143	1144	1145	1146
10	1080	1090	1100	1110	1119	1129	1138	1147	1155	1163	1170	1177	1183	1187	1192	1195	1198	1200	1201
15	1072	1087	1103	1118	1133	1147	1161	1174	1187	1200	1212	1223	1233	1242	1249	1255	1259	1263	1264
20	1068	1089	1111	1131	1151	1171	1189	1210	1229	1246	1262	1275	1287	1298	1307	1314	1321	1325	1327
25	1067	1096	1125	1152	1178	1208	1238	1263	1285	1303	1320	1343	1366	1385	1401	1415	1426	1433	1436
30	1082	1123	1161	1195	1235	1279	1315	1342	1366	1404	1433	1458	1478	1496	1510	1523	1534	1541	1545
35	1123	1184	1239	1288	1358	1412	1448	1494	1534	1561	1579	1592	1624	1651	1675	1693	1708	1719	1724
40	1191	1284	1365	1458	1549	1614	1688	1737	1761	1778	1806	1825	1841	1857	1870	1881	1890	1897	1903
45	1292	1427	1542	1691	1806	1920	2008	2052	2086	2100	2101	2092	2089	2103	2123	2140	2150	2159	2166
50	1432	1616	1791	1977	2136	2279	2380	2443	2475	2464	2404	2375	2373	2387	2407	2418	2420	2422	2430
55	1591	1821	2046	2261	2445	2593	2683	2784	2760	2709	2660	2632	2638	2669	2705	2730	2728	2724	2728
60	1711	1964	2186	2385	2593	2635	2760	2738	2808	2826	2767	2715	2700	2685	2689	2645	2564	2486	2458
65	1602	1738	1824	1916	1896	2000	2113	2275	2361	2411	2334	2181	2030	1861	1613	1344	1140	1007	963
70	1129	1112	1021	900	815	809	966	1008	1073	1143	1133	1073	985	891	786	666	566	509	490
75	612	518	370	263	222	219	212	215	269	407	486	481	434	369	315	269	234	217	211
80	236	159	79.5	64.0	61.1	68.6	91.5	103	111	112	128	141	165	167	163	148	135	128	126
85	46.4	25.1	19.1	16.2	12.3	16.9	29.5	45.7	53.8	57.4	65.3	72.3	84.2	85.8	84.4	76.7	69.9	66.7	65.3
90	3.36	4.95	7.40	6.99	6.45	5.99	5.70	5.38	5.15	4.98	4.83	4.81	4.81	4.82	4.89	4.90	4.91	4.85	4.78

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

Checker:

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2 UNIT: cd

C (DEG) / γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090
5	1145	1144	1143	1141	1139	1136	1133	1130	1127	1123	1119	1115	1110	1106	1101	1096	1091	1086	1081
10	1200	1198	1195	1192	1187	1183	1177	1170	1163	1155	1147	1138	1129	1119	1110	1100	1090	1080	1070
15	1263	1259	1255	1249	1242	1233	1223	1212	1200	1187	1174	1161	1147	1133	1118	1103	1087	1072	1057
20	1325	1321	1314	1307	1298	1287	1275	1262	1246	1229	1210	1189	1171	1151	1131	1111	1089	1068	1048
25	1433	1426	1415	1401	1385	1366	1343	1320	1303	1285	1263	1238	1208	1178	1152	1125	1096	1067	1042
30	1541	1534	1523	1510	1496	1478	1458	1433	1404	1366	1342	1315	1279	1235	1195	1161	1123	1082	1049
35	1719	1708	1693	1675	1651	1624	1592	1579	1561	1534	1494	1448	1412	1358	1288	1239	1184	1123	1075
40	1897	1890	1881	1870	1857	1841	1825	1806	1778	1761	1737	1688	1614	1549	1458	1365	1284	1191	1121
45	2159	2150	2140	2123	2103	2089	2092	2101	2100	2086	2052	2008	1920	1806	1691	1542	1427	1292	1187
50	2422	2420	2418	2407	2387	2373	2375	2404	2464	2475	2443	2380	2279	2136	1977	1791	1616	1432	1276
55	2724	2728	2730	2705	2669	2638	2632	2660	2709	2760	2784	2683	2593	2445	2261	2046	1821	1591	1377
60	2486	2564	2645	2689	2685	2700	2715	2767	2826	2808	2738	2760	2635	2593	2385	2186	1964	1711	1457
65	1007	1140	1344	1613	1861	2030	2181	2334	2411	2361	2275	2113	2000	1896	1916	1824	1738	1602	1393
70	509	566	666	786	891	985	1073	1133	1143	1073	1008	966	809	815	900	1021	1112	1129	1038
75	217	234	269	315	369	434	481	486	407	269	215	212	219	222	263	370	518	612	569
80	128	135	148	163	167	165	141	128	112	111	103	91.5	68.6	61.1	64.0	79.5	159	236	222
85	66.7	69.9	76.7	84.4	85.8	84.2	72.3	65.3	57.4	53.8	45.7	29.5	16.9	12.3	16.2	19.1	25.1	46.4	47.7
90	4.85	4.91	4.90	4.89	4.82	4.81	4.81	4.83	4.98	5.15	5.38	5.70	5.99	6.45	6.99	7.40	4.95	3.36	3.60

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

Checker:

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--3 UNIT: cd

C (DEG) / γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090
5	1076	1071	1067	1062	1058	1054	1050	1046	1043	1040	1038	1036	1034	1033	1032	1032	1032	1032	1032
10	1060	1051	1042	1033	1025	1016	1009	1002	996	990	986	982	978	976	974	973	973	973	974
15	1043	1029	1016	1003	990	979	967	958	950	942	936	931	926	924	921	920	920	920	921
20	1028	1009	991	973	957	942	928	916	905	895	886	880	875	871	869	867	867	867	869
25	1017	992	968	945	925	906	889	873	858	846	835	826	819	814	810	809	809	809	810
30	1016	983	952	923	896	872	849	828	809	793	780	770	762	756	752	750	750	750	752
35	1027	981	939	901	866	833	804	779	758	740	720	703	691	682	676	673	673	673	676
40	1049	984	927	877	829	787	753	722	690	663	642	625	613	604	599	596	595	596	599
45	1080	992	913	842	782	734	682	640	607	580	558	540	526	516	509	506	506	506	509
50	1125	999	888	795	719	649	594	550	516	488	465	448	434	424	418	416	416	416	418
55	1177	1001	850	727	625	548	495	453	419	392	376	366	357	350	345	342	341	342	345
60	1206	977	785	628	514	442	389	353	335	323	314	307	298	291	286	283	283	283	286
65	1151	898	681	508	397	329	298	282	278	276	271	261	253	250	249	249	249	249	249
70	868	674	500	367	273	239	231	234	234	228	216	205	198	195	195	195	195	195	195
75	466	356	252	183	150	148	155	160	162	158	149	141	137	136	138	139	140	139	138
80	178	121	89.6	79.1	73.7	72.8	72.1	78.9	93.4	98.3	94.4	91.5	90.2	90.5	91.7	92.9	93.3	92.9	91.7
85	22.6	18.9	17.6	24.4	28.5	33.0	35.4	40.4	48.0	51.0	49.2	47.6	46.8	46.9	47.4	48.0	48.2	48.0	47.4
90	3.87	4.09	4.24	4.36	4.39	4.34	4.25	4.14	4.03	3.92	3.79	3.63	3.48	3.32	3.19	3.10	3.08	3.10	3.19

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

Checker:

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4 UNIT: cd

C (DEG) / γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090				
5	1033	1034	1036	1038	1040	1043	1046	1050	1054	1058	1062	1067	1071	1076	1081				
10	976	978	982	986	990	996	1002	1009	1016	1025	1033	1042	1051	1060	1070				
15	924	926	931	936	942	950	958	967	979	990	1003	1016	1029	1043	1057				
20	871	875	880	886	895	905	916	928	942	957	973	991	1009	1028	1048				
25	814	819	826	835	846	858	873	889	906	925	945	968	992	1017	1042				
30	756	762	770	780	793	809	828	849	872	896	923	952	983	1016	1049				
35	682	691	703	720	740	758	779	804	833	866	901	939	981	1027	1075				
40	604	613	625	642	663	690	722	753	787	829	877	927	984	1049	1121				
45	516	526	540	558	580	607	640	682	734	782	842	913	992	1080	1187				
50	424	434	448	465	488	516	550	594	649	719	795	888	999	1125	1276				
55	350	357	366	376	392	419	453	495	548	625	727	850	1001	1177	1377				
60	291	298	307	314	323	335	353	389	442	514	628	785	977	1206	1457				
65	250	253	261	271	276	278	282	298	329	397	508	681	898	1151	1393				
70	195	198	205	216	228	234	234	231	239	273	367	500	674	868	1038				
75	136	137	141	149	158	162	160	155	148	150	183	252	356	466	569				
80	90.5	90.2	91.5	94.4	98.3	93.4	78.9	72.1	72.8	73.7	79.1	89.6	121	178	222				
85	46.9	46.8	47.6	49.2	51.0	48.0	40.4	35.4	33.0	28.5	24.4	17.6	18.9	22.6	47.7				
90	3.32	3.48	3.63	3.79	3.92	4.03	4.14	4.25	4.34	4.39	4.36	4.24	4.09	3.87	3.60				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-10-26

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Checker:

Assessor: