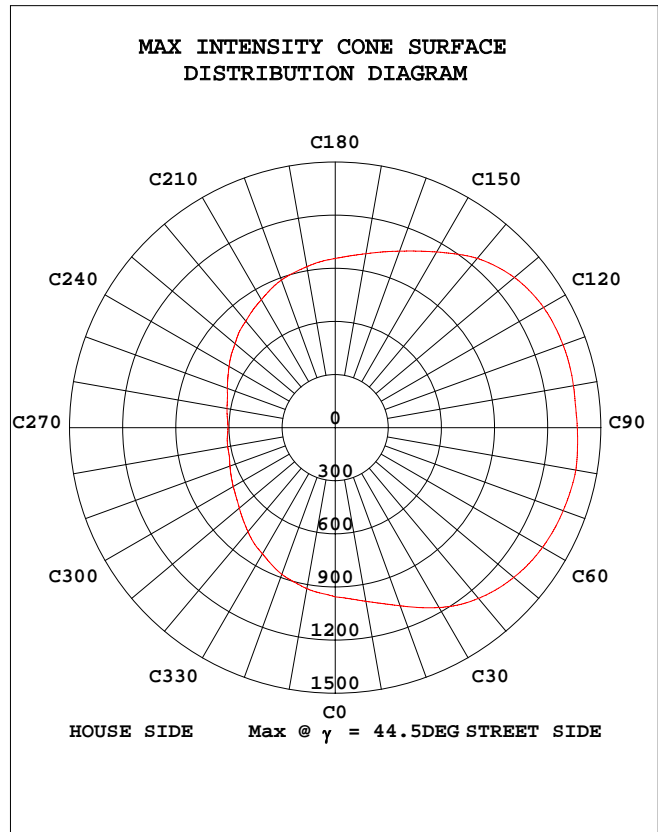
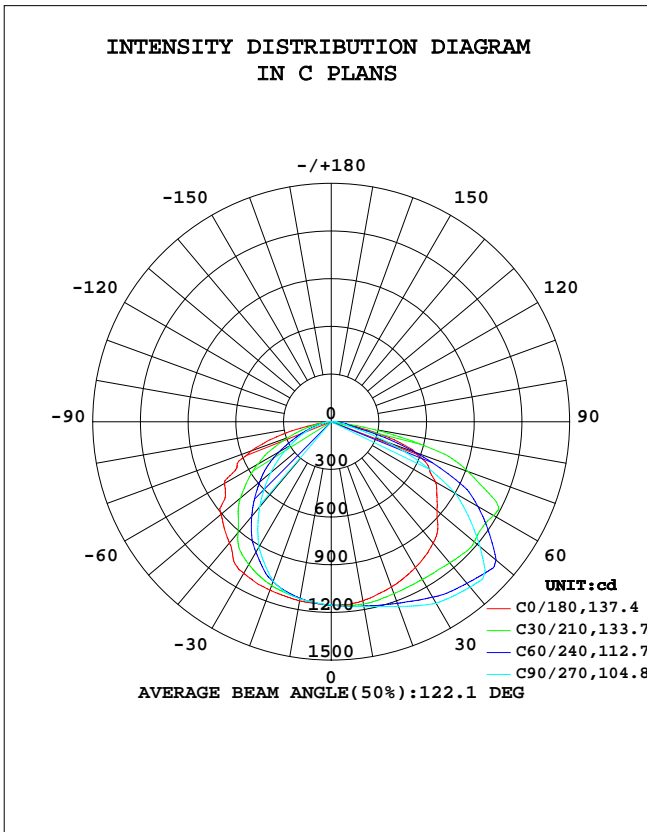


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.2779A P:33.32W PF:0.9948 Lamp Flux:4087.85x1 lm		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.69 lm/W			
MODEIASD-LED-SBRR-36N50-EX39		I <sub>max</sub> (cd)	1379	η street_up(%)	0.0
NOMINAL POWER(W)	36	LOR(%)	100.0	η street_down(%)	61.3
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4088	η house_up(%)	0.0
NOMINAL FLUX(lm)	4087.85	MAXIMUM @(C,γ )	80,44.5	η house_down(%)	38.7
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	120	η down(%)	100.0	SLI	19.937



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2016-08-03

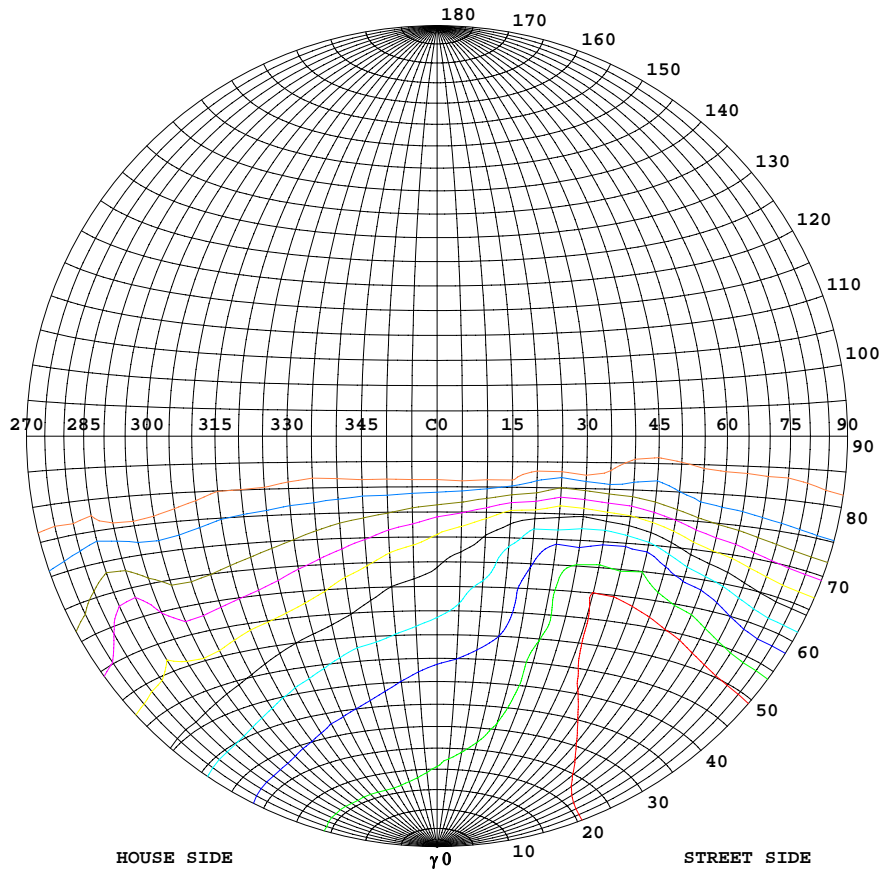
γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:65.0%  
 Test Distance:7.850m [K=1.0000]  
 Remarks:

Note: SLI:Specific Luminaire Index

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**STREETLIGHT ISOCANDELA DIAGRAM**

Test:U:120.5V I:0.2779A P:33.32W PF:0.9948 Lamp Flux:4087.85x1 lm		



Classification:

IES:Type III - Very Short  
 CIE:Average - Short  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:68.17cd/klm  
 Max.At90:2.568cd/klm  
 Max.80-90:68.17cd/klm

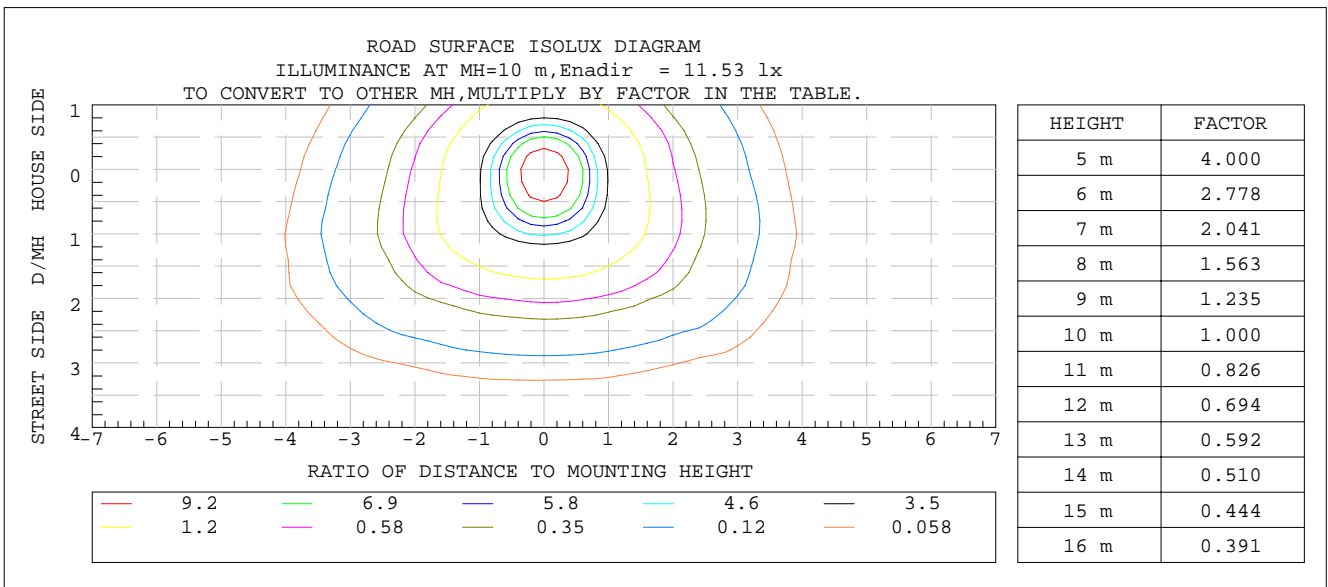
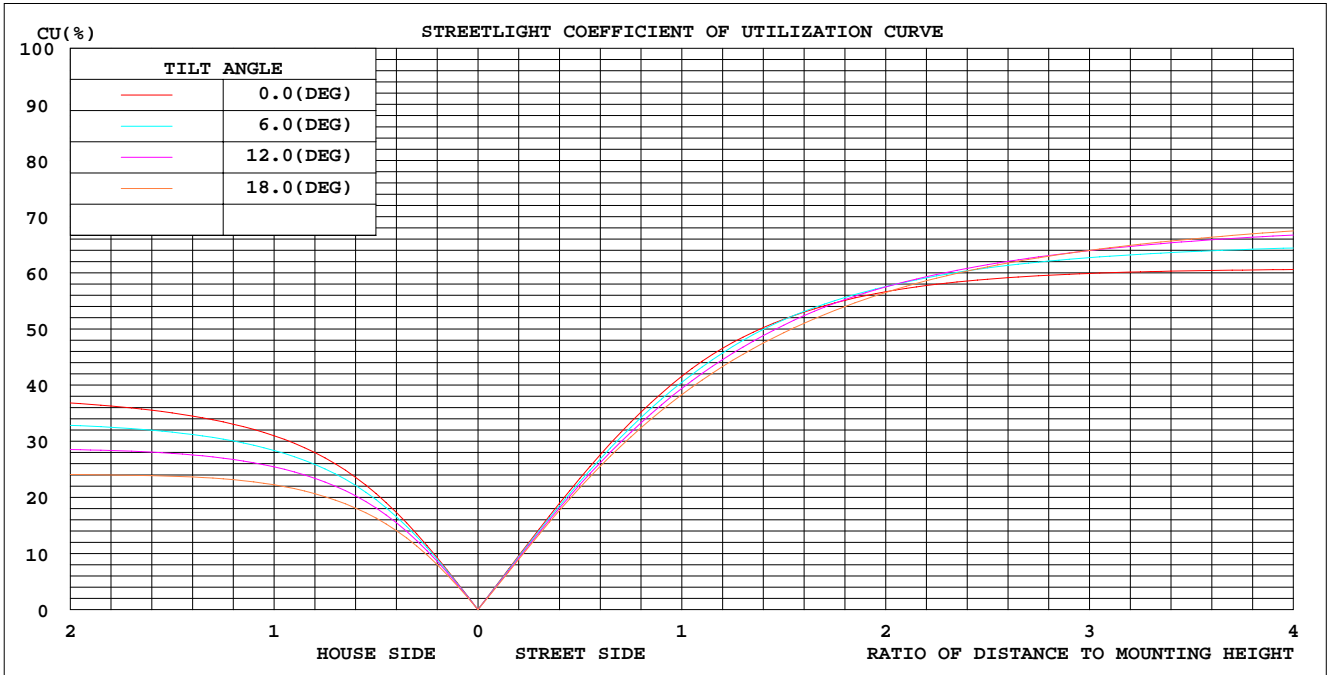
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1379
— 90%	1241
— 80%	1103
— 70%	965
— 60%	827
— 50%	690
— 40%	552
— 30%	414
— 20%	276
— 10%	138
— 5%	69

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2016-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:65.0%  
 Test Distance:7.850m [K=1.0000]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2016-08-03

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
Humidity: 65.0%  
Test Distance: 7.850m [K=1.0000]  
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:120.5V I:0.2779A P:33.32W PF:0.9948 Lamp Flux:4087.85x1 lm		

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	*lum,lamp
5	1154	1164	1165	1159	1147	1145	1144	1145	0- 5	27.58	27.58	0.67,0.67
10	1144	1173	1179	1168	1145	1128	1132	1132	5- 10	82.40	110.0	2.69,2.69
15	1125	1178	1203	1179	1135	1107	1109	1110	10- 15	136.0	246.0	6.02,6.02
20	1106	1183	1236	1196	1127	1083	1069	1073	15- 20	187.7	433.7	10.6,10.6
25	1084	1195	1277	1218	1118	1047	990.0	1028	20- 25	236.4	670.1	16.4,16.4
30	1059	1215	1319	1244	1101	994.0	910.7	966.3	25- 30	280.8	950.9	23.3,23.3
35	1031	1241	1339	1274	1070	932.2	805.5	896.8	30- 35	320.3	1271	31.1,31.1
40	997.4	1268	1358	1298	996.9	863.8	700.3	823.3	35- 40	351.5	1623	39.7,39.7
45	948.6	1293	1360	1285	951.2	755.3	595.7	726.7	40- 45	374.7	1997	48.9,48.9
50	869.0	1323	1220	1259	906.0	637.0	496.2	626.7	45- 50	387.5	2385	58.3,58.3
55	811.9	1327	1062	1241	812.5	526.2	397.4	523.3	50- 55	384.8	2770	67.8,67.8
60	757.7	1202	903.8	1124	776.3	420.1	298.5	409.4	55- 60	368.7	3138	76.8,76.8
65	676.7	1102	643.6	1013	653.6	312.8	224.2	299.5	60- 65	336.6	3475	85.85
70	562.0	864.6	383.4	819.1	535.1	215.2	149.8	207.2	65- 70	277.8	3753	91.8,91.8
75	349.7	491.2	145.2	474.8	336.5	133.9	80.49	134.2	70- 75	193.0	3946	96.5,96.5
80	96.36	167.6	82.80	158.1	109.4	62.47	51.39	67.86	75- 80	95.66	4042	98.9,98.9
85	27.40	86.33	42.42	82.26	16.58	33.45	27.32	37.64	80- 85	35.34	4077	99.7,99.7
90	5.100	4.633	2.031	2.277	2.899	4.788	3.253	7.169	85- 90	10.99	4088	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			

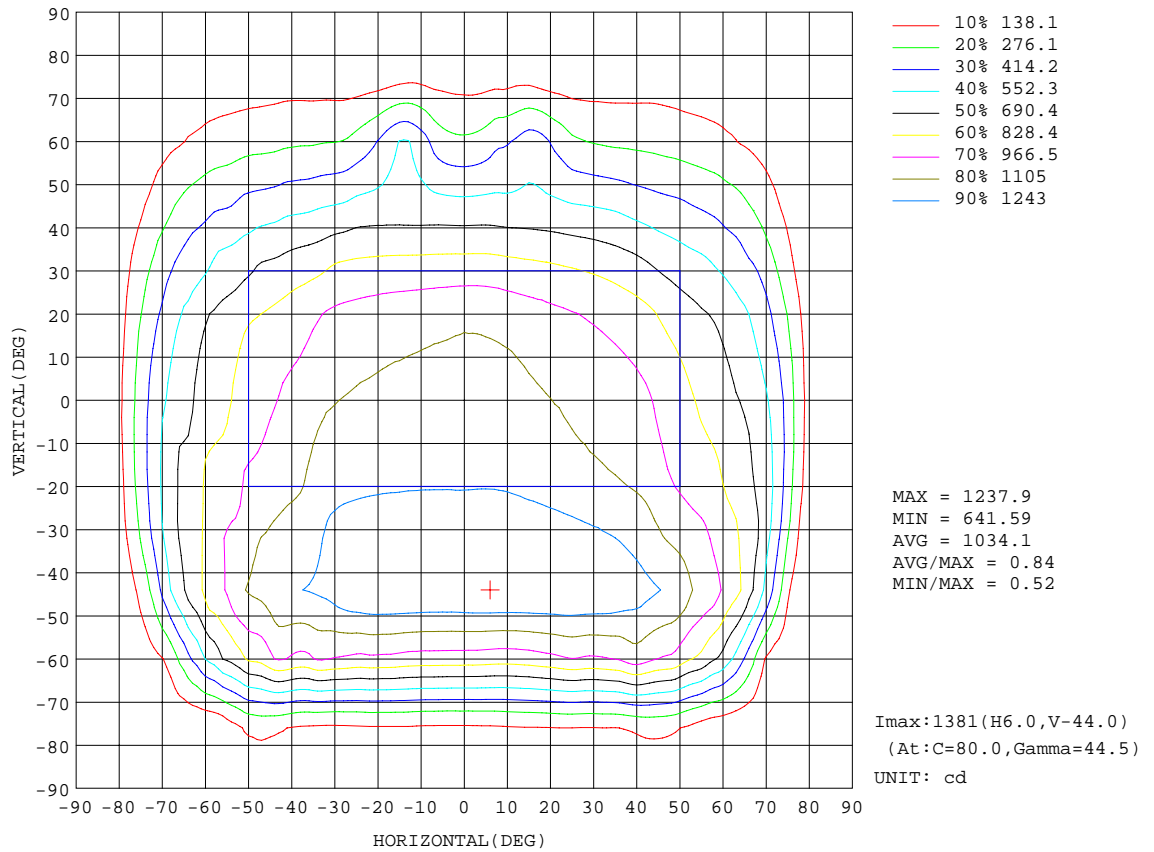
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2016-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:65.0%  
 Test Distance:7.850m [K=1.0000]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

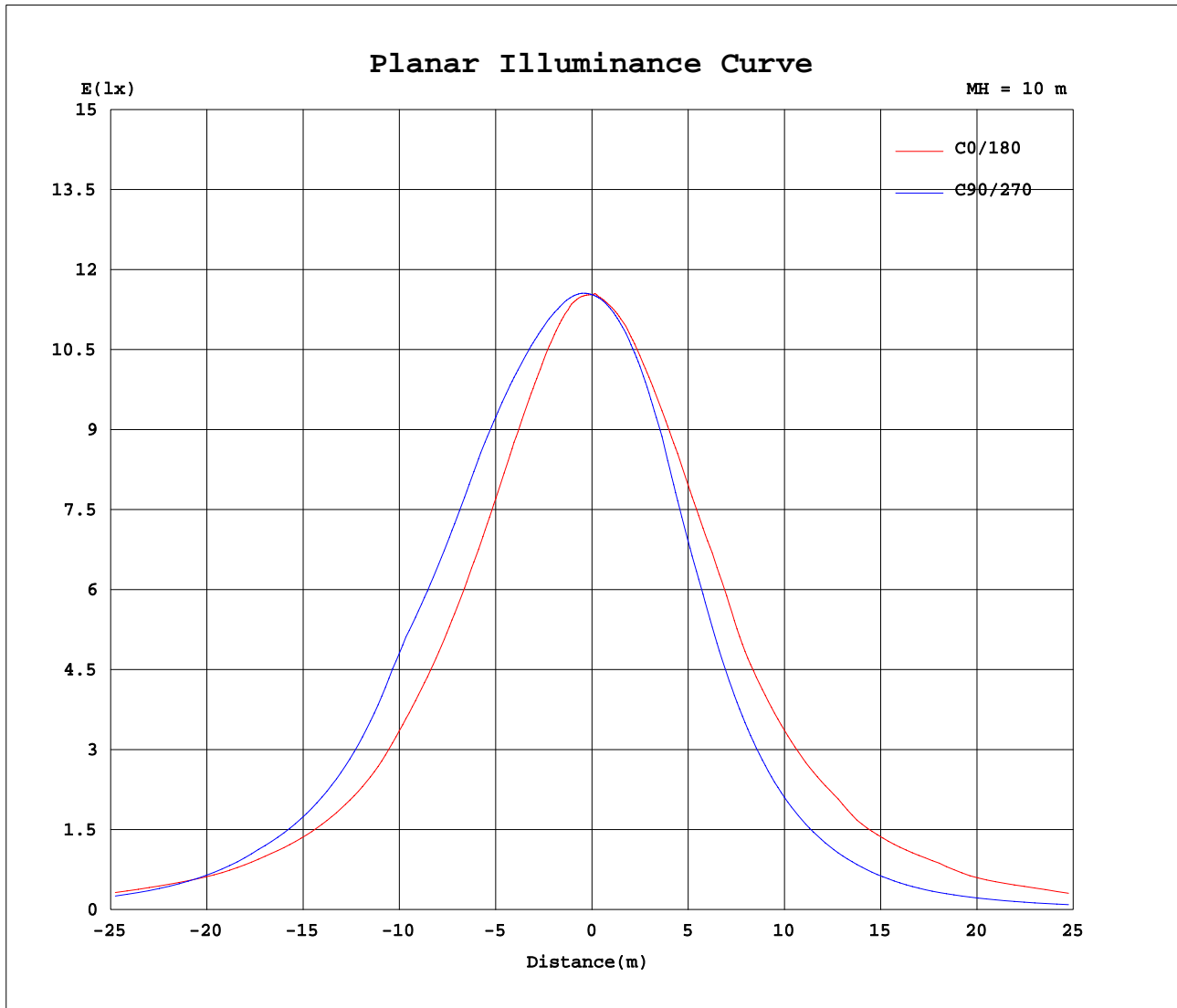
Test:U:120.5V I:0.2779A P:33.32W PF:0.9948 Lamp Flux:4087.85x1 lm		



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators:  
 Test Date: 2016-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity: 65.0%  
 Test Distance: 7.850m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators:  
 Test Date: 2016-08-03

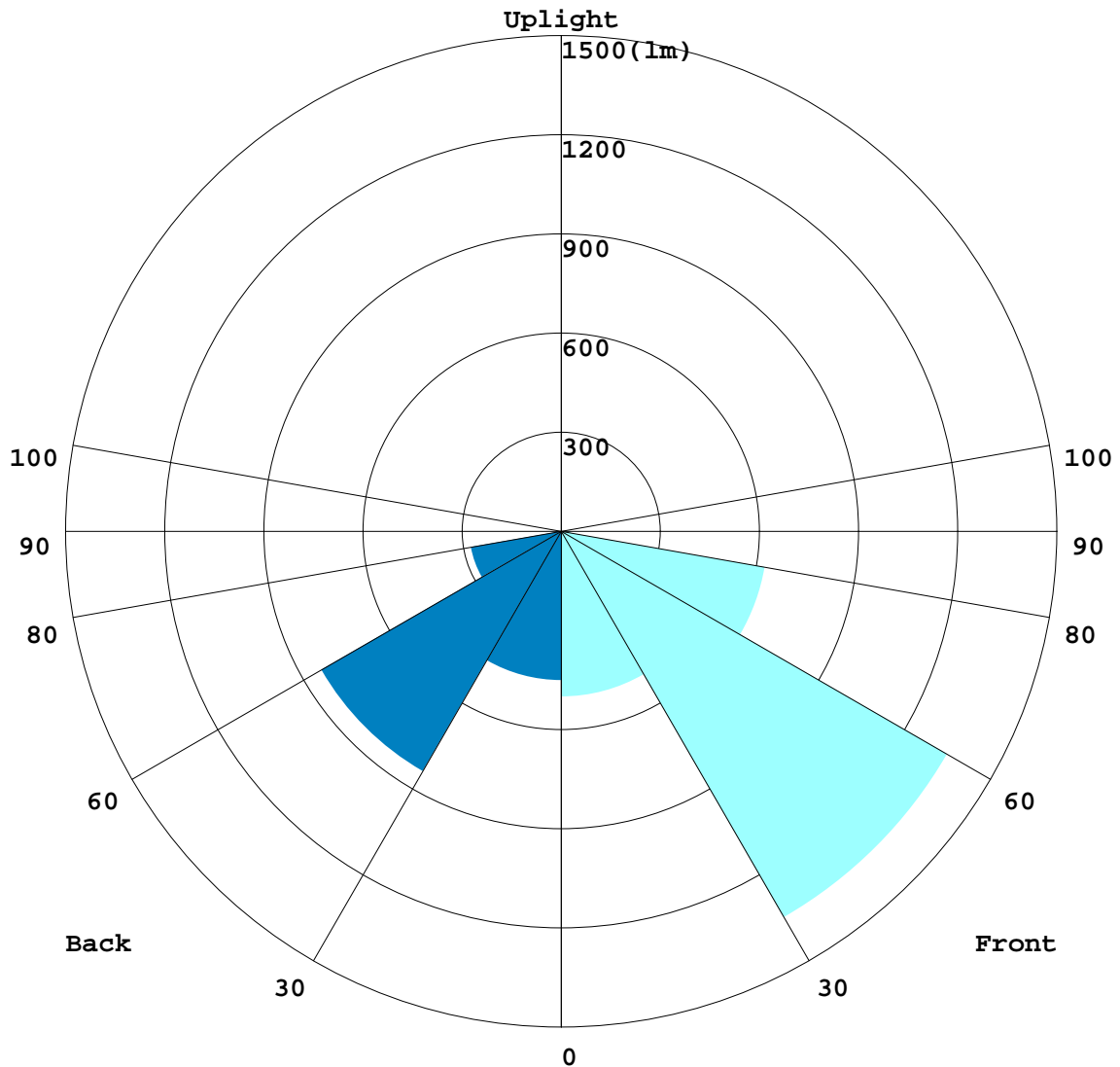
γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity: 65.0%  
 Test Distance: 7.850m [K=1.0000]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:120.5V I:0.2779A P:33.32W PF:0.9948 Lamp Flux:4087.85x1 lm		

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2016-08-03

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:65.0%  
 Test Distance:7.850m [K=1.0000]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:120.5V I:0.2779A P:33.32W PF:0.9948 Lamp Flux:4087.85x1 lm		

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	500.3	12.2
FM - Front-Medium(30-60)	1349	33.0
FH - Front-High(60-80)	625.93	15.3
FVH - Front-Very High(80-90)	29.038	0.7
Total Forward Light	2504.3	61.3

BL - Back-Low(0-30)	450.63	11.0
BM - Back-Medium(30-60)	838.51	20.5
BH - Back-High(60-80)	277.16	6.8
BVH - Back-Very High(80-90)	17.292	0.4
Total Back Light	1583.6	38.7

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
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1583.6	0	1583.6
Street Side	2504.3	0	2504.3

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2016-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:65.0%  
 Test Distance:7.850m [K=1.0000]  
 Remarks:

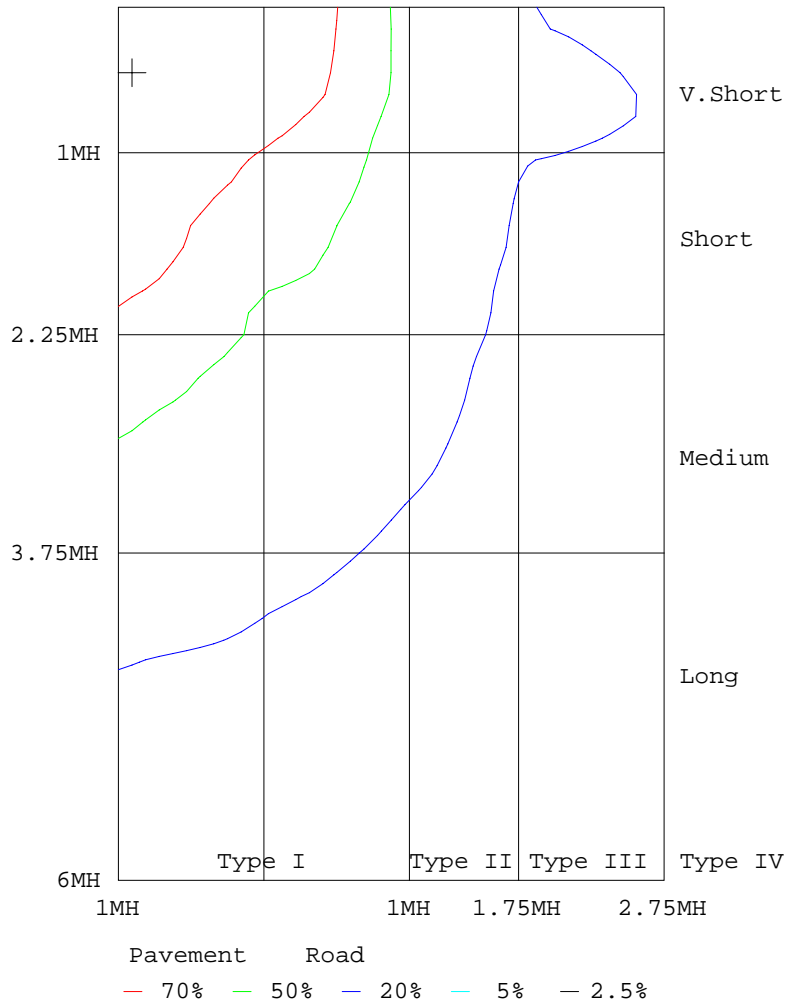


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:120.5V I:0.2779A P:33.32W PF:0.9948 Lamp Flux:4087.85x1 lm		

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2016-08-03

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:65.0%  
 Test Distance:7.850m [K=1.0000]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.2779A P:33.32W PF:0.9948 Lamp Flux:4087.85x1 lm																	

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	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153
5	1154	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1165	1166	1167	1167	1166	1166	1166	1165
10	1144	1147	1150	1154	1158	1161	1164	1167	1170	1173	1175	1177	1178	1179	1180	1180	1180	1179	1179
15	1125	1130	1136	1142	1148	1154	1160	1166	1172	1178	1185	1190	1195	1198	1201	1203	1204	1204	1203
20	1106	1113	1120	1127	1134	1142	1151	1161	1172	1183	1195	1206	1216	1223	1230	1234	1236	1236	1236
25	1084	1091	1100	1110	1120	1133	1146	1161	1178	1195	1211	1226	1243	1255	1265	1272	1277	1278	1277
30	1059	1067	1078	1091	1108	1124	1146	1169	1192	1215	1237	1257	1275	1290	1301	1311	1317	1320	1319
35	1031	1040	1054	1072	1094	1120	1149	1181	1213	1241	1267	1289	1305	1317	1327	1335	1340	1340	1339
40	997	1009	1027	1051	1080	1117	1160	1201	1237	1268	1292	1312	1327	1340	1349	1356	1361	1361	1358
45	949	964	990	1025	1069	1121	1174	1223	1261	1293	1319	1340	1355	1365	1373	1378	1372	1366	1360
50	869	888	919	965	1028	1099	1175	1233	1281	1323	1352	1366	1353	1313	1279	1250	1233	1225	1220
55	812	839	876	930	1003	1078	1160	1236	1290	1327	1297	1247	1210	1162	1120	1086	1067	1064	1062
60	758	796	846	917	999	1078	1179	1242	1233	1202	1148	1094	1065	1014	964	923	900	901	904
65	677	724	786	865	957	1048	1115	1120	1093	1102	1009	932	864	800	733	683	653	645	644
70	562	615	697	775	881	920	915	939	931	865	742	631	562	518	464	425	399	387	383
75	350	403	475	584	601	646	654	601	564	491	405	316	261	227	193	176	161	149	145
80	96.4	98.9	117	153	206	279	244	200	190	168	139	119	111	109	103	99.7	93.2	86.0	82.8
85	27.4	26.3	26.7	27.5	27.5	32.2	38.0	52.4	79.9	86.3	73.3	61.0	57.0	56.1	53.8	55.1	50.8	45.4	42.4
90	5.10	6.33	5.89	5.26	4.78	4.37	3.76	3.32	3.69	4.63	4.69	2.80	2.52	3.28	4.12	10.5	8.17	4.72	2.03

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators:  
 Test Date: 2016-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity: 65.0%  
 Test Distance: 7.850m [K=1.0000]  
 Remarks:

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:120.5V I:0.2779A P:33.32W PF:0.9948 Lamp Flux:4087.85x1 lm																	

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	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153
5	1166	1166	1165	1164	1164	1163	1162	1161	1159	1158	1157	1155	1154	1153	1151	1150	1149	1147	1147
10	1179	1178	1178	1177	1175	1174	1172	1170	1168	1165	1162	1160	1157	1154	1152	1150	1147	1145	1142
15	1202	1201	1200	1197	1194	1191	1188	1184	1179	1174	1169	1164	1160	1155	1150	1145	1140	1135	1130
20	1235	1235	1232	1228	1224	1218	1211	1203	1196	1187	1179	1171	1163	1155	1149	1142	1135	1127	1122
25	1276	1275	1272	1267	1260	1251	1240	1228	1218	1205	1192	1179	1165	1154	1145	1135	1126	1118	1109
30	1318	1316	1313	1307	1299	1289	1276	1261	1244	1225	1207	1187	1168	1151	1137	1125	1112	1101	1091
35	1336	1336	1334	1332	1328	1321	1312	1295	1274	1250	1224	1197	1169	1143	1119	1099	1083	1070	1058
40	1354	1352	1352	1351	1347	1340	1330	1315	1298	1267	1227	1181	1133	1092	1058	1031	1012	997	983
45	1356	1359	1371	1371	1368	1361	1344	1320	1285	1244	1194	1145	1100	1059	1025	994	970	951	937
50	1220	1230	1252	1281	1314	1347	1348	1305	1259	1220	1186	1148	1096	1042	995	957	929	906	891
55	1064	1075	1097	1131	1165	1191	1218	1225	1241	1230	1198	1132	1097	1016	936	879	838	813	795
60	909	920	942	981	1013	1041	1078	1111	1124	1181	1158	1118	1041	979	916	857	810	776	747
65	649	665	696	742	789	852	947	976	1013	1061	1027	1060	975	920	818	750	696	654	618
70	388	401	429	462	498	552	632	685	819	880	882	834	825	783	712	652	586	535	493
75	146	154	170	183	207	242	299	361	475	530	559	581	555	509	495	428	370	336	309
80	82.7	86.4	92.9	94.0	94.0	92.4	100	119	158	201	190	199	225	167	160	140	133	109	109
85	42.4	45.0	49.1	48.3	47.9	47.3	52.0	61.9	82.3	89.5	49.2	21.0	16.5	12.9	22.3	14.4	14.5	16.6	19.4
90	2.04	3.42	5.29	2.50	2.25	2.33	2.33	2.31	2.28	2.32	2.32	2.31	2.37	2.51	2.74	3.04	3.27	2.90	3.54

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 25DEG Operators: Test Date: 2016-08-03	γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350 Humidity: 65.0% Test Distance: 7.850m [K=1.0000] Remarks:
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**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:120.5V I:0.2779A P:33.32W PF:0.9948 Lamp Flux:4087.85x1 lm																	

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	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153
5	1146	1146	1146	1145	1145	1145	1145	1145	1145	1145	1145	1145	1144	1144	1144	1144	1144	1143	1142
10	1139	1137	1134	1132	1131	1129	1128	1128	1128	1128	1128	1128	1129	1130	1131	1132	1132	1132	1132
15	1126	1123	1120	1117	1115	1112	1110	1107	1105	1104	1104	1104	1103	1103	1105	1106	1109	1108	1109
20	1116	1111	1106	1101	1097	1092	1088	1083	1079	1074	1070	1068	1066	1066	1065	1067	1069	1071	1072
25	1100	1092	1084	1077	1071	1064	1056	1047	1040	1028	1017	1006	999	994	990	990	990	993	995
30	1080	1068	1057	1047	1037	1025	1014	994	978	962	948	935	925	918	913	912	911	914	916
35	1045	1033	1022	1010	996	975	953	932	914	897	874	852	834	822	814	808	805	809	814
40	967	952	938	928	913	899	887	864	832	804	779	757	736	721	712	704	700	705	710
45	919	900	882	856	828	804	774	755	727	707	682	660	639	621	612	602	596	602	608
50	871	846	812	776	746	706	665	637	612	599	587	581	594	580	539	506	496	508	532
55	776	750	721	694	641	599	562	526	503	481	492	512	564	567	484	412	397	417	465
60	717	674	629	572	533	488	456	420	394	371	378	423	517	561	443	321	299	328	400
65	582	542	501	449	417	377	336	313	283	266	263	309	381	426	340	243	224	246	296
70	454	414	372	334	287	260	224	215	200	186	173	191	226	260	218	164	150	163	189
75	280	249	229	195	176	160	145	134	123	106	89.6	83.3	85.9	99.0	96.9	89.0	80.5	84.0	87.2
80	104	102	99.8	95.6	85.5	72.3	62.7	62.5	61.3	53.2	46.0	41.8	44.2	52.5	57.5	56.8	51.4	53.0	52.7
85	23.6	25.7	29.3	29.7	30.0	30.9	30.9	33.5	33.2	28.9	25.2	22.6	23.5	27.5	30.3	30.2	27.3	28.3	28.0
90	4.03	4.40	4.59	4.82	5.00	4.91	4.91	4.79	4.57	4.16	3.72	3.42	3.17	2.93	2.92	3.51	3.25	3.39	3.17

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Temperature:25DEG	Humidity:65.0%
Operators:	Test Distance:7.850m [K=1.0000]
Test Date:2016-08-03	Remarks:

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:120.5V I:0.2779A P:33.32W PF:0.9948 Lamp Flux:4087.85x1 lm		

Table--4

UNIT: cd

γ (DEG) \ C (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153				
5	1142	1143	1143	1144	1144	1145	1145	1146	1147	1148	1149	1150	1151	1152	1153				
10	1131	1131	1131	1131	1131	1131	1132	1132	1132	1133	1134	1136	1137	1139	1141				
15	1109	1109	1109	1109	1108	1108	1110	1111	1110	1110	1110	1112	1114	1117	1120				
20	1071	1071	1071	1070	1071	1073	1073	1075	1078	1080	1082	1085	1089	1094	1100				
25	997	1001	1003	1009	1017	1024	1028	1032	1037	1042	1048	1055	1061	1069	1076				
30	918	919	924	931	941	953	966	982	991	1001	1010	1019	1029	1039	1048				
35	817	824	835	850	868	881	897	915	934	953	966	979	993	1005	1018				
40	713	723	737	753	773	796	823	845	865	889	916	931	949	967	982				
45	610	623	639	655	673	697	727	757	791	815	845	876	895	917	930				
50	545	567	561	559	573	599	627	656	688	722	749	777	806	831	849				
55	498	530	493	465	473	496	523	545	575	607	647	685	730	762	786				
60	460	485	409	360	366	385	409	435	466	505	545	601	646	691	724				
65	357	363	299	259	257	274	300	327	359	398	440	486	539	589	633				
70	230	217	183	171	178	191	207	219	245	279	321	361	402	458	514				
75	98.6	82.1	80.7	87.9	100	116	134	144	153	165	184	216	237	268	311				
80	55.5	41.9	41.2	44.4	50.2	57.3	67.9	69.6	74.4	87.5	95.1	90.7	97.5	92.3	95.4				
85	29.2	22.4	22.4	24.3	27.5	31.8	37.6	36.4	35.4	37.6	38.8	34.1	32.9	31.0	29.0				
90	3.12	3.34	3.61	3.85	4.17	5.25	7.17	8.74	9.59	9.66	8.63	7.07	6.29	5.42	3.34				

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2016-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:65.0%  
 Test Distance:7.850m [K=1.0000]  
 Remarks: