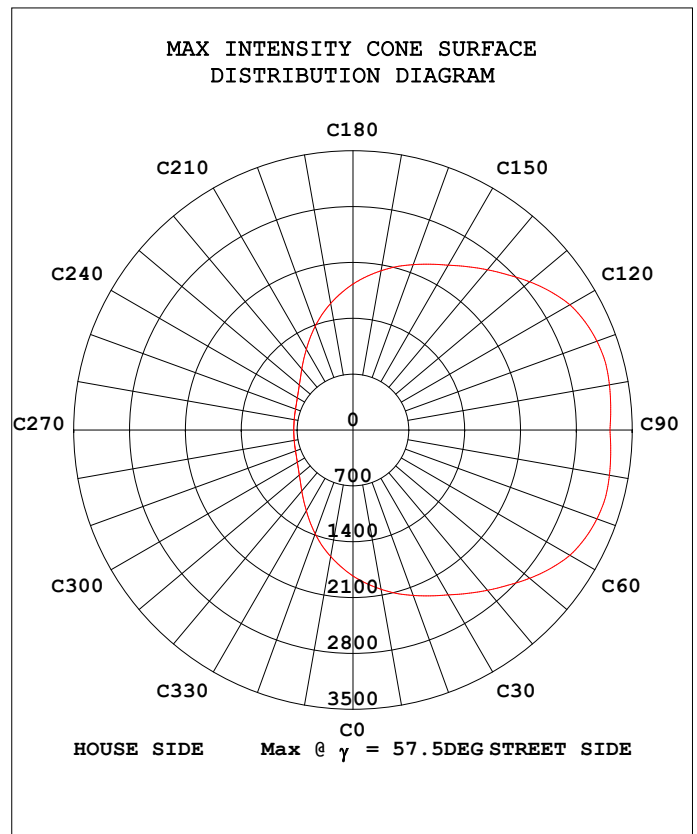
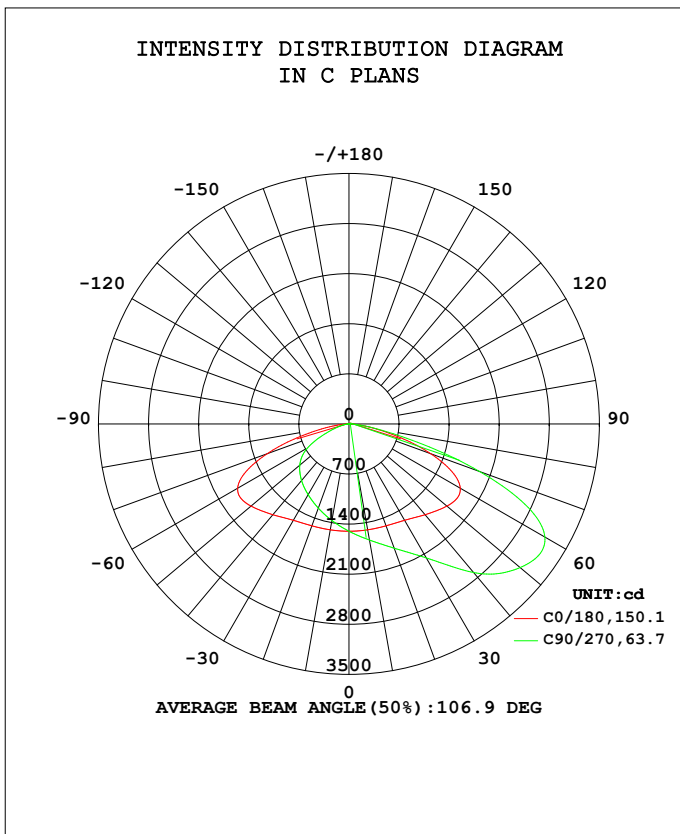


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.502A P:60.0W PF:0.996 Freq:50.00Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8033.77x1 lm		
NAME: ST10-060-UD-3070-A08804	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

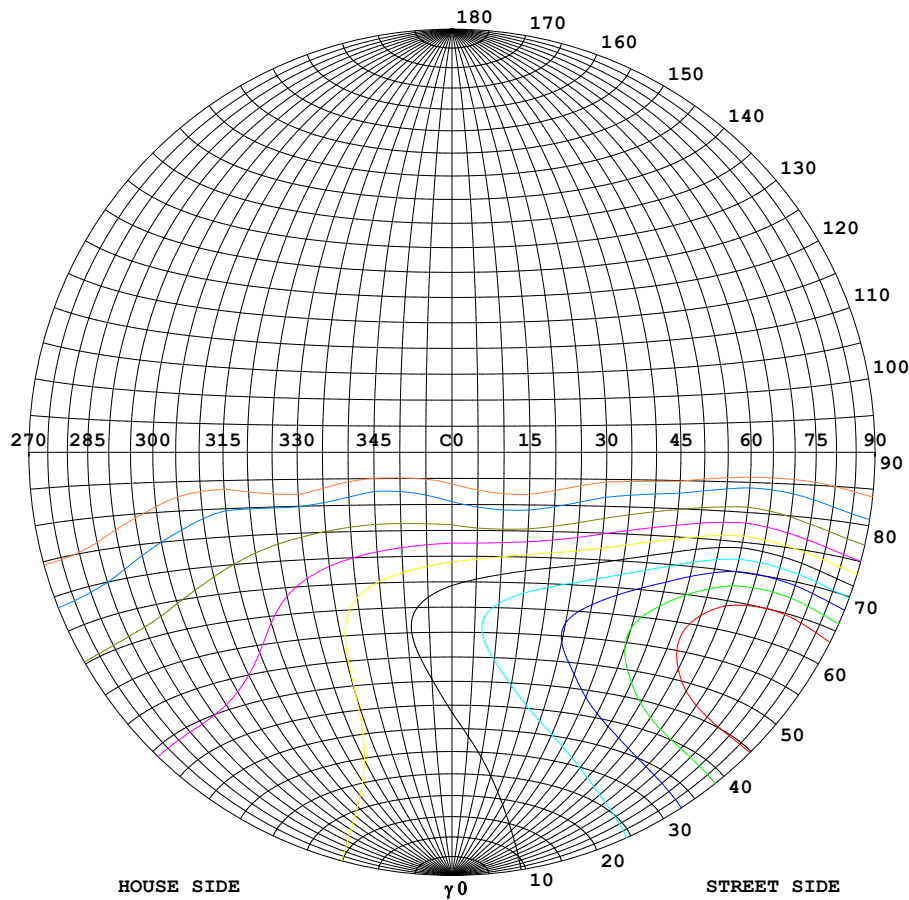
DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.90 lm/W			
MODEL	/	I <sub>max</sub> (cd)	3275	η street_up (%)	0.0
NOMINAL POWER (W)	/	LOR (%)	100.0	η street_down (%)	67.2
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	8034	η house_up (%)	0.0
NOMINAL FLUX (lm)	8033.77	MAXIMUM @ (C, γ )	105,57.5	η house_down (%)	32.8
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	/	η down (%)	100.0	SLI	



C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: LYJ  
 Test Date: 2022-05-04

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 26.000m [K=0.0446]  
 Remarks:

**STREETLIGHT ISOCANDELA DIAGRAM**



**Classification:**

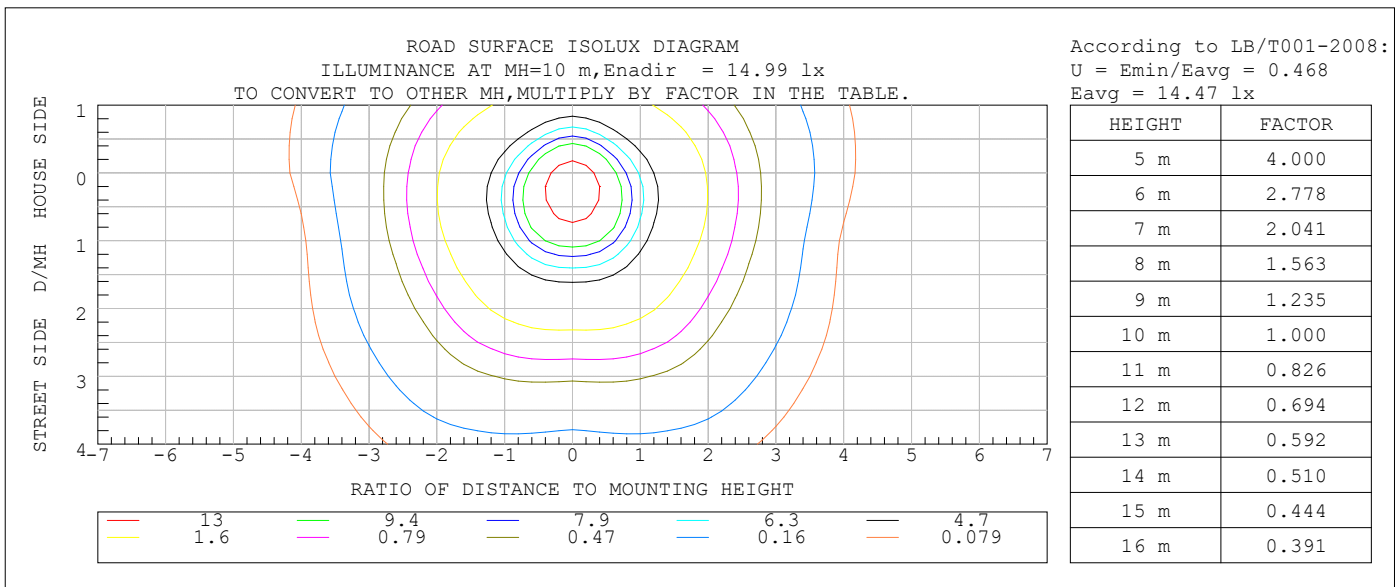
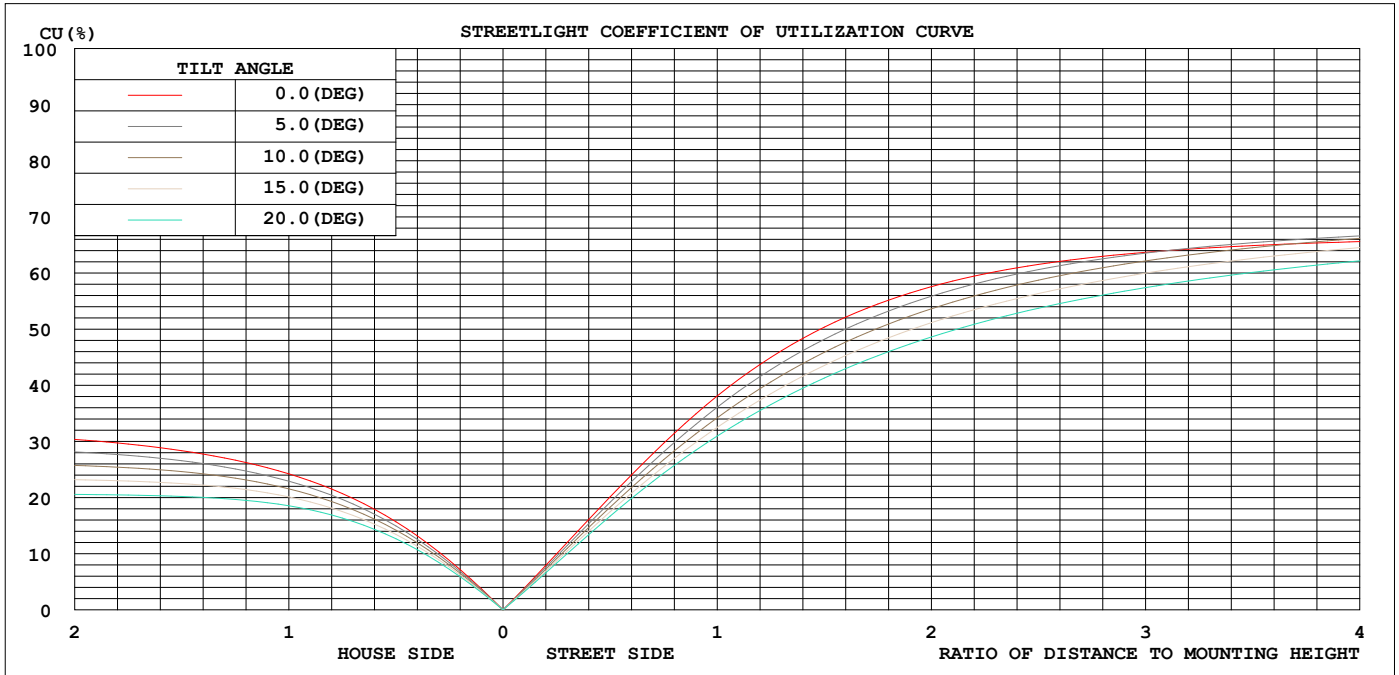
IES:Type IV - Very Short  
 CIE:Broad - Short  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:94.03cd/klm  
 Max.At90:0.0956cd/klm  
 Max.80-90:94.03cd/klm  
 NRB 5101:Limited[9.2%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3275
90%	2947
80%	2620
70%	2292
60%	1965
50%	1637
40%	1310
30%	982
20%	655
10%	327
5%	164

C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:LYJ  
 Test Date:2022-05-04

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:26.000m [K=0.0446]  
 Remarks:

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



According to LB/T001-2008:  
U = Emin/Eavg = 0.468  
Eavg = 14.47 lx

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: LYJ  
Test Date: 2022-05-04

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 26.000m [K=0.0446]  
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

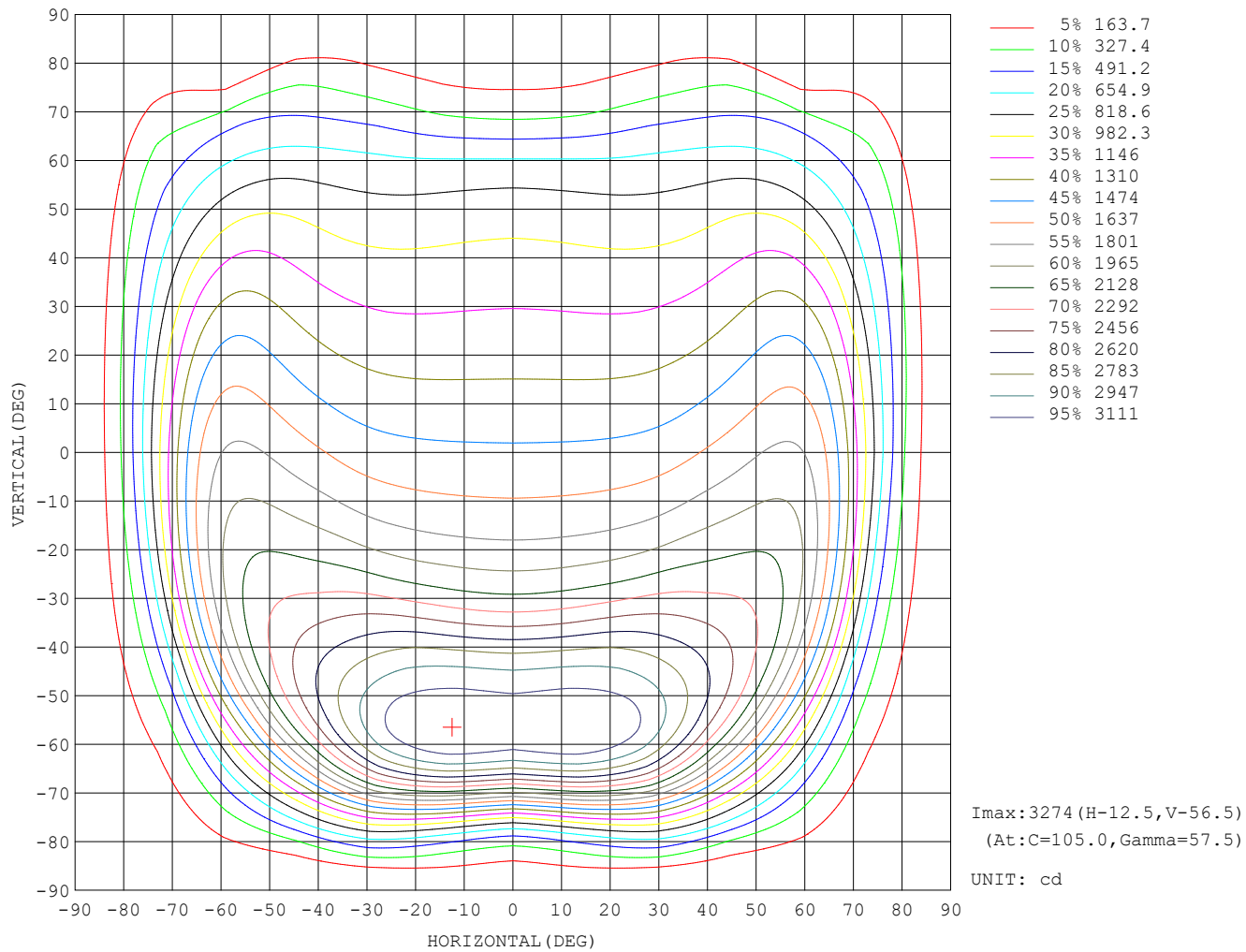
ZONAL FLUX DIAGRAM

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1503	1604	1647	1604	1503	1407	1371	1407	0- 10	143.4	143.4	1.79,1.79
20	1515	1746	1847	1746	1515	1316	1252	1316	10- 20	430.3	573.7	7.14,7.14
30	1555	1969	2162	1969	1555	1222	1141	1222	20- 30	723.4	1297	16.1,16.1
40	1656	2342	2710	2342	1656	1126	1031	1126	30- 40	1050	2347	29.2,29.2
50	1786	2674	3123	2674	1786	1024	897.3	1024	40- 50	1413	3761	46.8,46.8
60	1796	2708	3161	2708	1796	892.4	665.1	892.4	50- 60	1693	5454	67.9,67.9
70	1214	1924	1938	1924	1214	655.9	276.0	655.9	60- 70	1593	7047	87.7,87.7
80	359.9	638.8	389.1	638.8	359.9	313.4	74.00	313.4	70- 80	835.5	7883	98.1,98.1
90	0.4401	0.2554	0.1802	0.2554	0.4401	0.7181	0.7006	0.7181	80- 90	151.2	8034	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:LYJ  
 Test Date:2022-05-04

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:26.000m [K=0.0446]  
 Remarks:

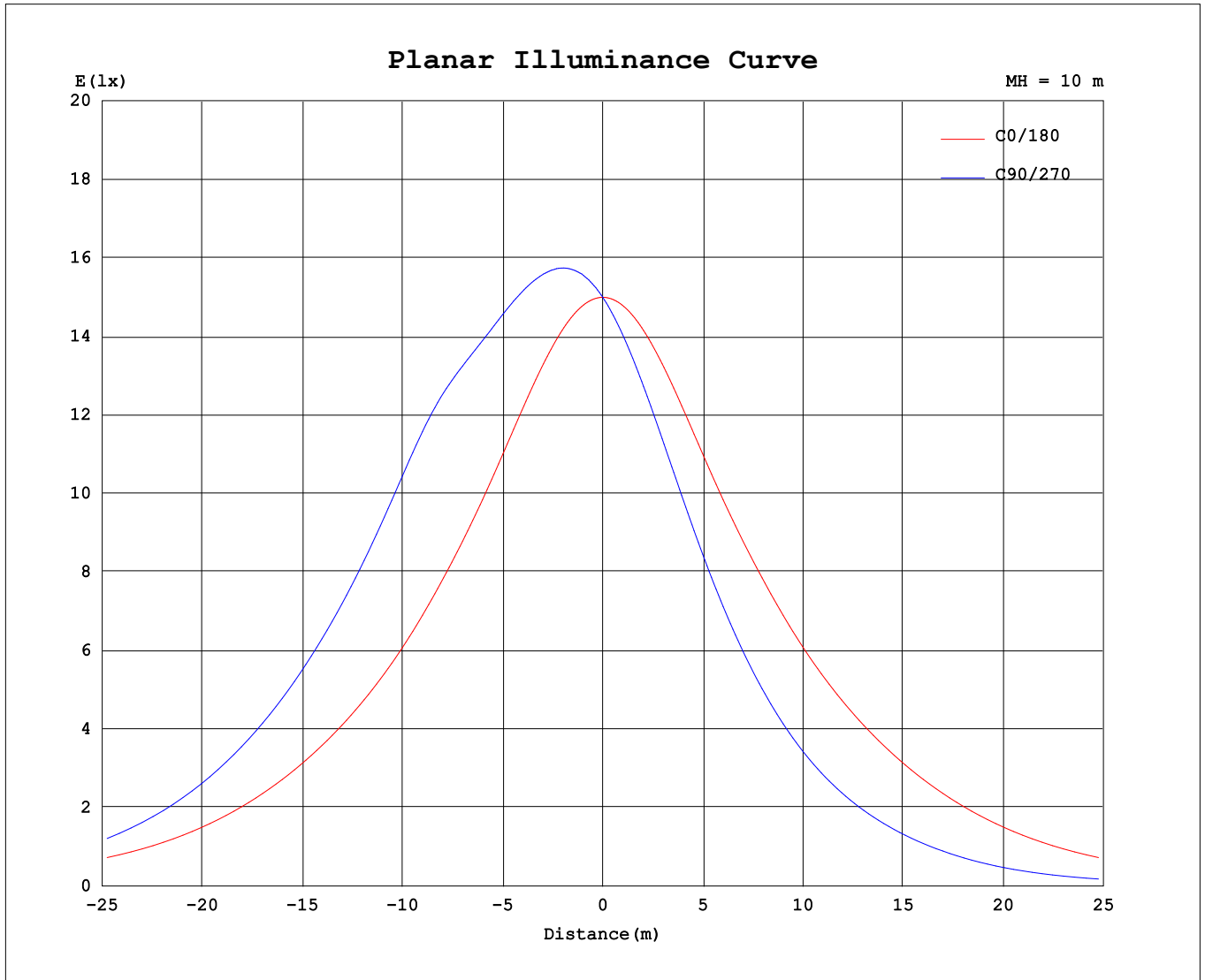
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:LYJ  
 Test Date:2022-05-04

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:26.000m [K=0.0446]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: LYJ  
Test Date: 2022-05-04

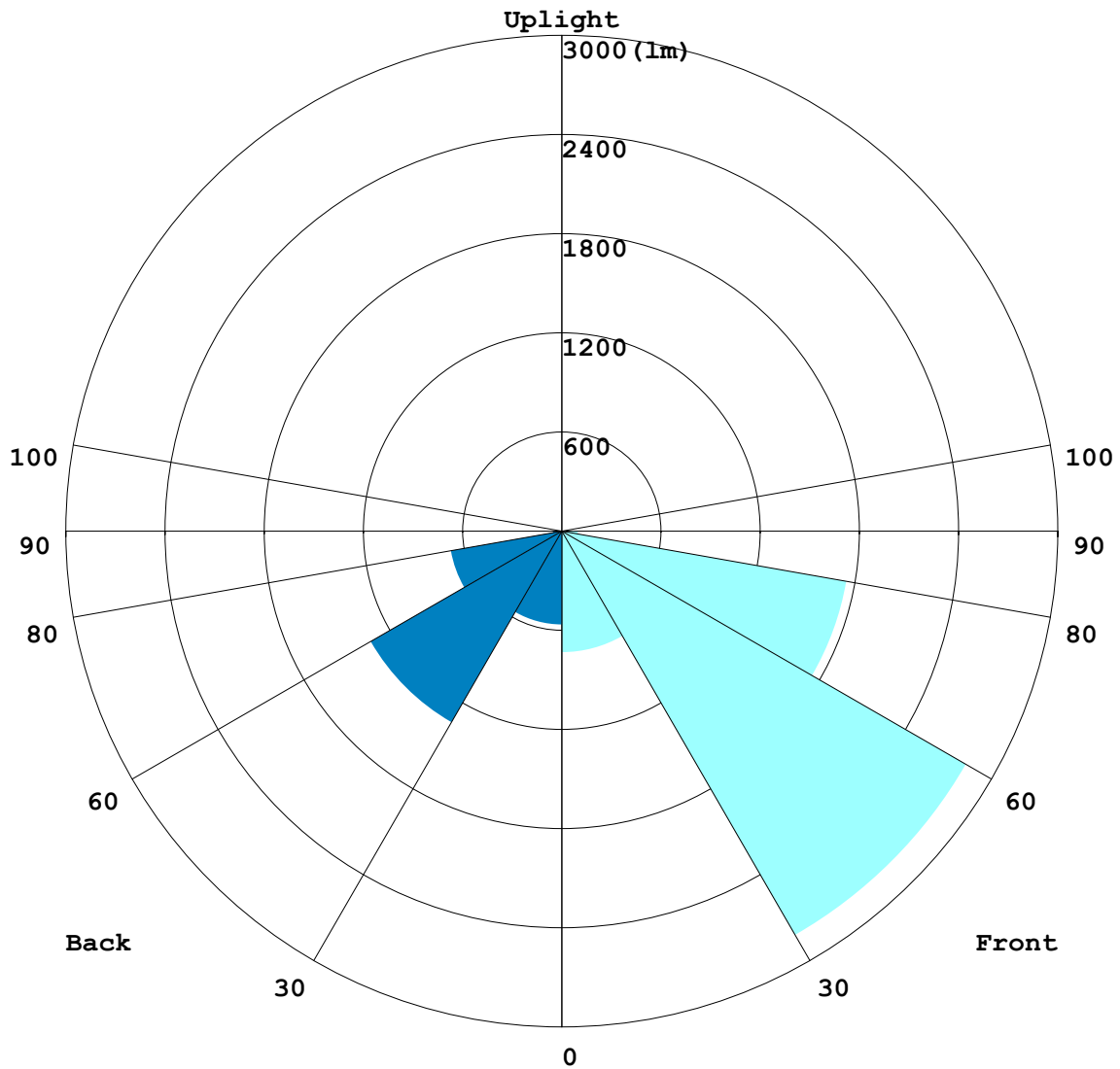
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 26.000m [K=0.0446]  
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:120.0V I:0.502A P:60.0W PF:0.996 Freq:50.00Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8033.77x1 lm		
NAME: ST10-060-UD-3070-A08804	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:LYJ  
 Test Date:2022-05-04

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:26.000m [K=0.0446]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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**BUG REPORT**

Test:U:120.0V I:0.502A P:60.0W PF:0.996 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8033.77x1 lm		
NAME: ST10-060-UD-3070-A08804	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

**IESNA Luminaire Flux Distribution Table:**

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	732.47	9.1
FM - Front-Medium(30-60)	2821.7	35.1
FH - Front-High(60-80)	1747.2	21.7
FVH - Front-Very High(80-90)	97.492	1.2
<b>Total Forward Light</b>	<b>5398.8</b>	<b>67.2</b>

BL - Back-Low(0-30)	564.7	7.0
BM - Back-Medium(30-60)	1335.2	16.6
BH - Back-High(60-80)	681.32	8.5
BVH - Back-Very High(80-90)	53.733	0.7
<b>Total Back Light</b>	<b>2635</b>	<b>32.8</b>

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

BUG(Back,Up,Glare) Rating	B2-U0-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2635	0	2635
Street Side	5398.8	0	5398.8

C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:LYJ  
 Test Date:2022-05-04

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:26.000m [K=0.0446]  
 Remarks:

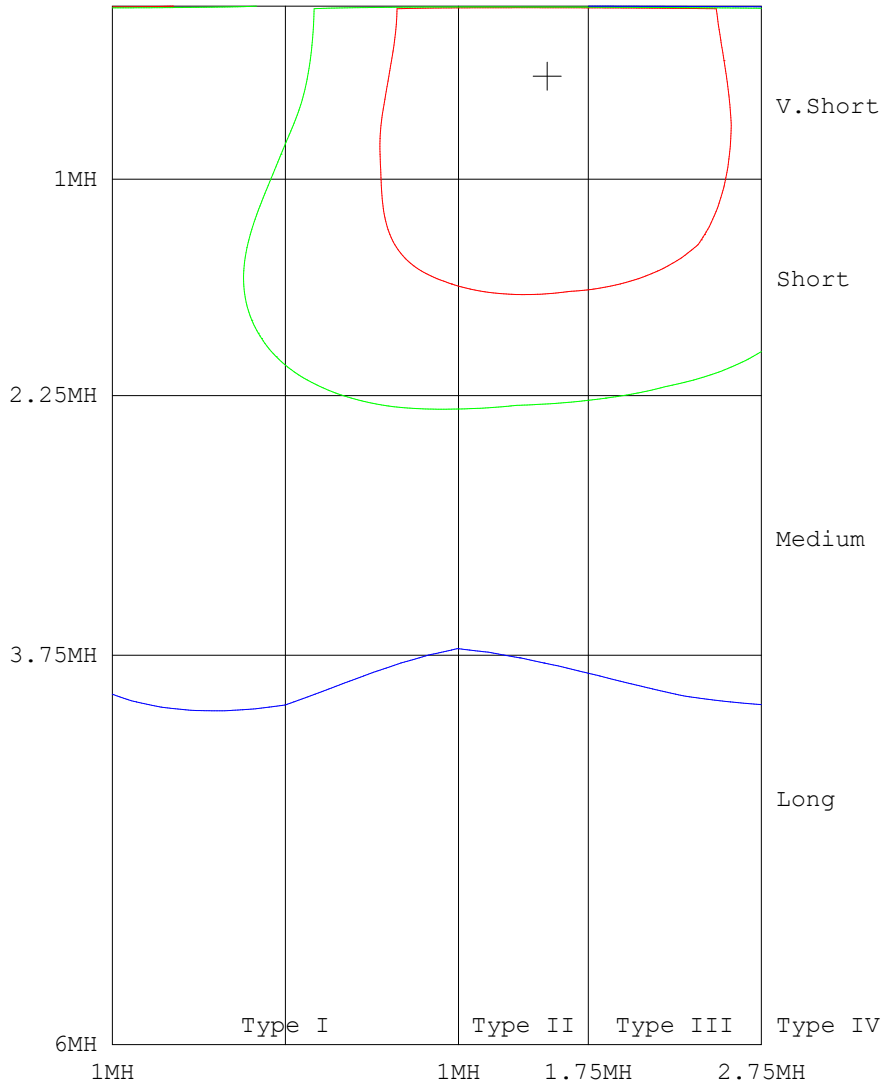


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:120.0V I:0.502A P:60.0W PF:0.996 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8033.77x1 lm		
NAME: ST10-060-UD-3070-A08804	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG	— Pavement 70% 2292.3	Road 50% 1037.4	γ Range: 65.0 - 90DEG	2.5% 81.869
C Interval: 2.5DEG			γ Interval: 0.5DEG	
Test Speed: HIGH	Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446			
Temperature: 25.3°C	Humidity: 65.0%			
Operators: LYJ	Test Distance: 26.000m [K=0.0446]			
Test Date: 2022-05-04	Remarks:			



**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

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**LUMINOUS DISTRIBUTION INTENSITY DATA**

Table--2

UNIT: cd

$\gamma$ (DEG)	C (DEG)																		
	47.5	50	52.5	55	57.5	60	62.5	65	67.5	70	72.5	75	77.5	80	82.5	85	87.5	90	92.5
0	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499
5	1551	1553	1555	1557	1558	1560	1562	1563	1564	1565	1566	1567	1568	1568	1569	1569	1569	1569	1569
10	1608	1613	1617	1621	1624	1628	1631	1633	1636	1638	1640	1642	1644	1645	1646	1646	1647	1647	1647
15	1676	1683	1689	1695	1701	1706	1711	1716	1720	1724	1727	1730	1732	1734	1736	1737	1737	1737	1737
20	1757	1767	1776	1785	1794	1802	1809	1816	1822	1827	1832	1836	1839	1842	1844	1846	1847	1847	1847
25	1859	1873	1887	1899	1912	1923	1933	1942	1950	1957	1964	1969	1974	1978	1980	1982	1984	1984	1984
30	1990	2010	2029	2047	2064	2079	2093	2106	2117	2127	2136	2143	2149	2154	2158	2160	2162	2162	2162
35	2164	2192	2219	2245	2269	2292	2312	2330	2346	2360	2372	2383	2392	2398	2404	2407	2409	2409	2409
40	2383	2422	2461	2498	2532	2564	2591	2615	2636	2655	2670	2683	2693	2701	2706	2709	2710	2710	2710
45	2588	2639	2688	2734	2777	2817	2848	2874	2897	2916	2932	2944	2952	2956	2959	2959	2958	2956	2958
50	2734	2791	2847	2900	2949	2994	3028	3057	3081	3100	3116	3127	3132	3134	3133	3130	3127	3123	3127
55	2816	2882	2945	3006	3062	3113	3151	3182	3208	3228	3243	3253	3254	3251	3245	3237	3229	3222	3229
60	2783	2858	2931	3000	3064	3122	3160	3190	3214	3230	3240	3243	3234	3220	3205	3188	3173	3161	3173
65	2529	2608	2685	2757	2823	2880	2910	2930	2942	2945	2940	2929	2902	2871	2840	2810	2784	2765	2784
70	1999	2072	2141	2203	2257	2299	2306	2301	2286	2261	2230	2193	2143	2092	2043	1999	1963	1938	1963
75	1303	1352	1396	1432	1460	1477	1461	1434	1398	1355	1308	1257	1201	1146	1095	1051	1016	993	1016
80	670	698	721	740	751	755	735	707	674	636	597	556	518	482	450	423	402	389	402
85	172	187	203	218	230	240	239	234	226	216	205	192	177	163	149	137	127	121	127
90	0.25	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.19	0.19	0.19	0.18	0.18	0.18

<p>C Range: 0 - 360DEG                  C Interval: 2.5DEG                  Test Speed: HIGH                  Temperature:25.3°C                  Operators:LYJ                  Test Date:2022-05-04</p>	<p><math>\gamma</math> Range: 0 - 90DEG  <math>\gamma</math> Interval: 0.5DEG                  Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446                  Humidity:65.0%                  Test Distance:26.000m [K=0.0446]                  Remarks:</p>
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4

UNIT: cd

Table with 19 columns (C (DEG) from 142.5 to 187.5) and 20 rows (gamma (DEG) from 0 to 90). The table contains numerical data representing luminous intensity in cd. The first row of data shows values for gamma = 0, ranging from 1499 at C=142.5 to 1499 at C=187.5. The values decrease as gamma increases, reaching 0.28 and 0.29 at gamma = 90 for C = 142.5 and 145 respectively.

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:LYJ
Test Date:2022-05-04

gamma Range: 0 - 90DEG
gamma Interval: 0.5DEG
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:26.000m [K=0.0446]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499
5	1488	1486	1483	1480	1477	1474	1472	1469	1467	1464	1462	1459	1457	1455	1453	1451	1449	1447	1445
10	1479	1473	1467	1461	1456	1450	1445	1440	1435	1430	1425	1420	1416	1411	1407	1403	1400	1396	1393
15	1470	1461	1452	1443	1435	1426	1418	1410	1402	1395	1388	1381	1374	1368	1362	1356	1351	1346	1342
20	1463	1450	1438	1426	1414	1402	1391	1380	1370	1360	1350	1341	1332	1324	1316	1309	1302	1296	1290
25	1460	1443	1427	1411	1395	1380	1365	1351	1337	1325	1312	1300	1289	1279	1269	1260	1252	1244	1237
30	1465	1444	1422	1402	1382	1362	1343	1325	1308	1291	1275	1261	1247	1234	1222	1211	1201	1192	1184
35	1483	1455	1428	1402	1376	1351	1327	1303	1281	1260	1241	1222	1205	1189	1174	1161	1149	1139	1130
40	1512	1477	1443	1410	1377	1346	1316	1286	1259	1233	1208	1185	1164	1144	1126	1110	1097	1084	1074
45	1548	1506	1464	1424	1384	1345	1308	1272	1238	1206	1176	1148	1122	1099	1077	1058	1042	1027	1014
50	1590	1540	1491	1443	1395	1348	1302	1259	1217	1179	1143	1110	1079	1050	1024	1002	982	964	949
55	1617	1562	1507	1452	1397	1343	1290	1239	1190	1146	1104	1065	1029	995	965	939	916	895	877
60	1582	1527	1471	1414	1356	1300	1244	1190	1139	1091	1046	1003	963	926	892	863	837	814	793
65	1415	1368	1321	1271	1222	1172	1123	1075	1029	985	943	903	864	828	794	765	737	711	687
70	1106	1077	1047	1014	980	946	912	878	844	811	779	748	716	686	656	627	599	571	543
75	746	739	730	716	700	682	662	642	620	600	580	559	536	514	490	464	437	409	382
80	440	451	458	441	419	394	368	342	318	315	314	315	316	316	313	297	277	256	233
85	164	168	169	151	130	108	85.5	64.6	47.1	51.0	58.6	68.6	79.8	91.0	101	98.5	94.1	88.1	80.9
90	0.52	0.54	0.56	0.57	0.58	0.58	0.59	0.60	0.61	0.63	0.64	0.66	0.68	0.70	0.72	0.73	0.74	0.75	0.76

C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: LYJ  
 Test Date: 2022-05-04

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 26.000m [K=0.0446]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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**LUMINOUS DISTRIBUTION INTENSITY DATA**

Table--6

UNIT: cd

C (DEG) γ (DEG)	237.5	240	242.5	245	247.5	250	252.5	255	257.5	260	262.5	265	267.5	270	272.5	275	277.5	280	282.5
0	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499
5	1444	1442	1441	1440	1439	1438	1437	1436	1435	1435	1434	1434	1434	1434	1434	1434	1434	1435	1435
10	1390	1387	1385	1382	1380	1378	1376	1375	1374	1373	1372	1371	1371	1371	1371	1371	1372	1373	1374
15	1337	1333	1330	1326	1323	1321	1318	1316	1315	1313	1312	1311	1311	1311	1311	1311	1312	1313	1315
20	1284	1279	1275	1271	1267	1264	1261	1258	1256	1255	1254	1253	1252	1252	1252	1253	1254	1255	1256
25	1231	1225	1220	1215	1211	1208	1205	1202	1200	1198	1197	1196	1196	1196	1196	1196	1197	1198	1200
30	1177	1170	1165	1160	1156	1152	1149	1147	1145	1143	1142	1142	1141	1141	1141	1142	1142	1143	1145
35	1122	1115	1109	1104	1100	1096	1094	1092	1090	1089	1088	1088	1088	1088	1088	1088	1088	1089	1090
40	1064	1056	1050	1045	1041	1038	1036	1034	1032	1032	1031	1031	1031	1031	1031	1031	1031	1032	1032
45	1003	994	987	981	977	974	972	970	969	968	968	968	969	969	969	968	968	968	969
50	936	926	917	911	906	902	899	898	897	896	896	896	897	897	897	896	896	896	897
55	862	849	838	830	823	817	813	810	808	806	805	804	804	805	804	804	805	806	808
60	775	758	743	730	718	708	699	691	683	677	672	668	666	665	666	668	672	677	683
65	664	642	618	594	572	551	531	514	500	488	478	471	466	464	466	471	478	488	500
70	516	489	459	429	400	373	348	326	310	297	287	281	277	276	277	281	287	297	310
75	354	327	300	274	250	227	206	188	176	168	161	157	156	156	156	157	161	168	176
80	210	186	167	149	132	117	103	91.2	84.1	79.0	75.6	73.8	73.3	74.0	73.3	73.8	75.6	79.0	84.1
85	73.0	64.9	59.0	53.3	48.0	43.0	38.5	34.5	31.7	29.5	27.8	26.7	26.1	26.0	26.1	26.7	27.8	29.5	31.7
90	0.76	0.77	0.77	0.77	0.77	0.76	0.76	0.75	0.74	0.73	0.72	0.71	0.71	0.70	0.71	0.71	0.72	0.73	0.74

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 2.5DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Temperature:25.3°C	Humidity:65.0%
Operators:LYJ	Test Distance:26.000m [K=0.0446]
Test Date:2022-05-04	Remarks:





EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--8

UNIT: cd

$\gamma$ (DEG) \ C (DEG)	332.5	335	337.5	340	342.5	345	347.5	350	352.5	355	357.5								
0	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499								
5	1469	1472	1474	1477	1480	1483	1486	1488	1491	1494	1497								
10	1440	1445	1450	1456	1461	1467	1473	1479	1484	1490	1497								
15	1410	1418	1426	1435	1443	1452	1461	1470	1479	1488	1497								
20	1380	1391	1402	1414	1426	1438	1450	1463	1475	1488	1502								
25	1351	1365	1380	1395	1411	1427	1443	1460	1477	1494	1511								
30	1325	1343	1362	1382	1402	1422	1443	1465	1487	1509	1532								
35	1303	1327	1351	1376	1402	1428	1455	1482	1510	1539	1568								
40	1286	1316	1346	1377	1410	1443	1477	1511	1546	1582	1618								
45	1272	1308	1345	1384	1424	1464	1505	1546	1589	1632	1675								
50	1259	1302	1348	1395	1443	1491	1539	1588	1636	1686	1736								
55	1239	1290	1343	1397	1452	1507	1561	1615	1669	1723	1777								
60	1190	1244	1300	1356	1414	1471	1526	1580	1635	1689	1743								
65	1075	1123	1172	1222	1271	1321	1368	1414	1460	1506	1551								
70	878	912	946	980	1014	1047	1077	1107	1135	1162	1189								
75	642	662	682	700	716	730	740	747	752	755	755								
80	342	368	394	419	441	458	458	451	438	419	393								
85	64.6	85.5	108	130	151	169	173	172	165	155	139								
90	0.60	0.59	0.58	0.58	0.57	0.56	0.54	0.53	0.51	0.49	0.46								

C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: LYJ  
 Test Date: 2022-05-04

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 26.000m [K=0.0446]  
 Remarks: