

Report No.:

Test Time: 2024/5/18 15:47:47

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT075H94-45°-14.7W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 74 mm

Voltage(V): 219.90 V
Current(A): 0.0700 A
Power(W): 14.70 W
Power Factor: 0.9500
Lamp Luminous Flux: 1491.35

Photometric Results

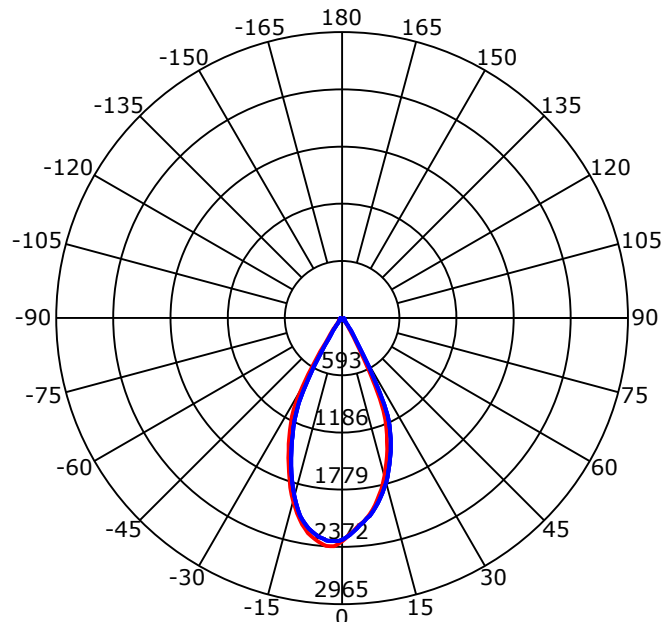
CIE Class: Direct
Luminaire Luminous Flux: 1491.354 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 101.45 lm/W
Beam Angle(50%) C0-180,C90-270: 48.9,49.6
Field Angle(10%) C0-180,C90-270: 66.2,66.7
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 2372.21 cd
Max.Intensity Angle: C=225 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2316.55 cd
Effective Luminous Flux: 1359.74 lm
ERP(ϕ use)(120deg): 1466.11 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.9 deg,49.6 deg

C0-180 — C90-270

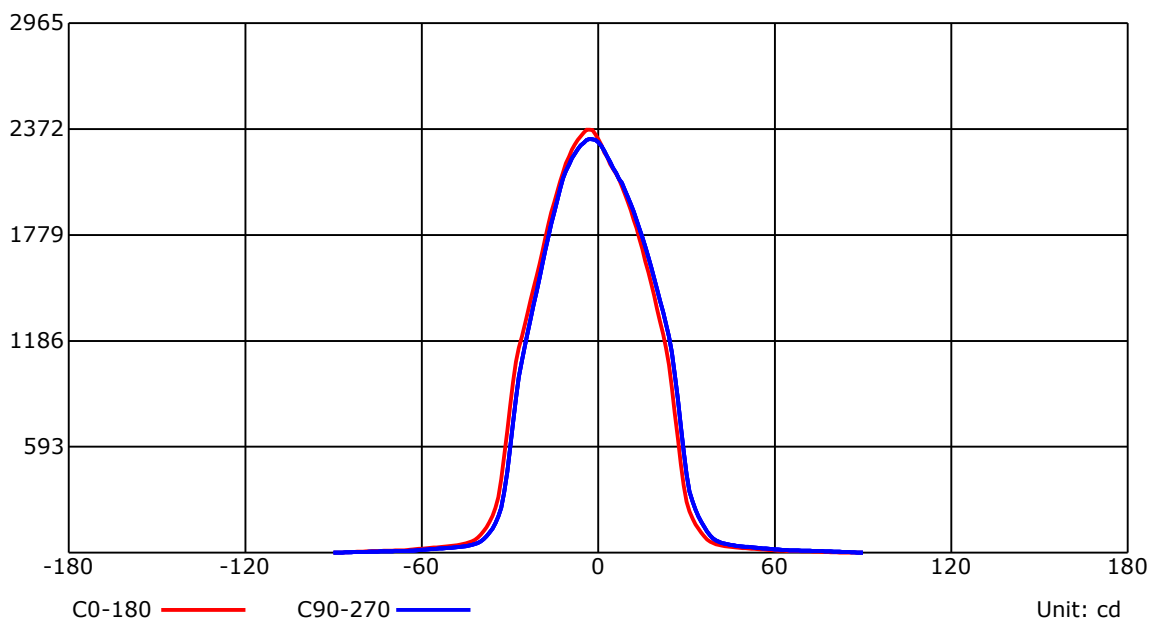
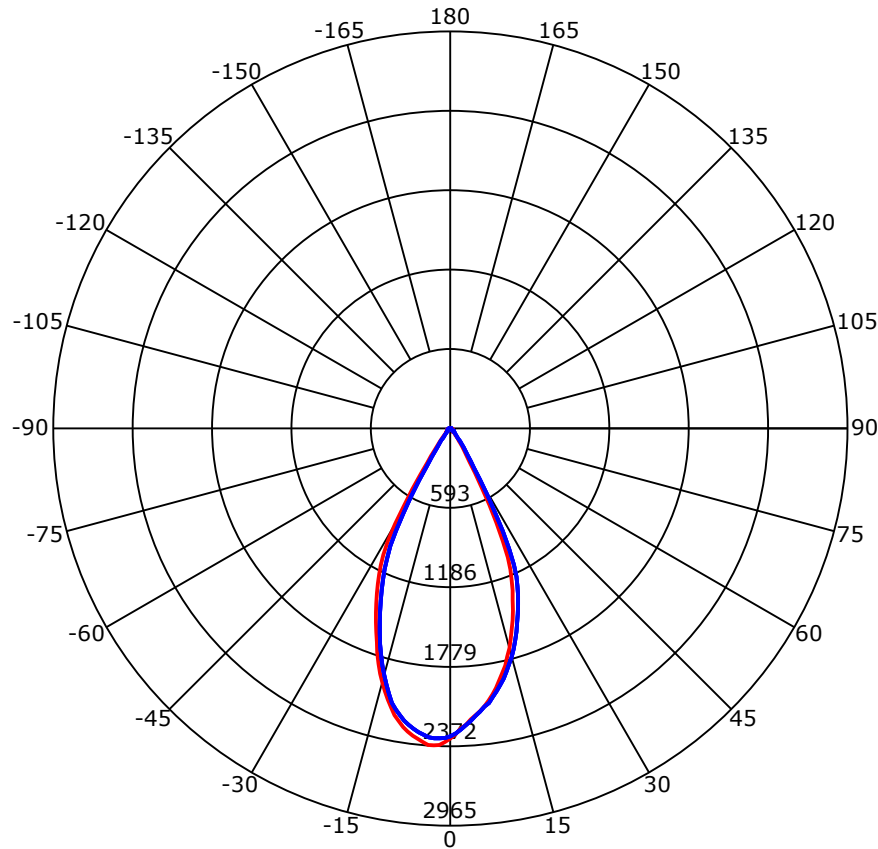
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/18 15:47:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



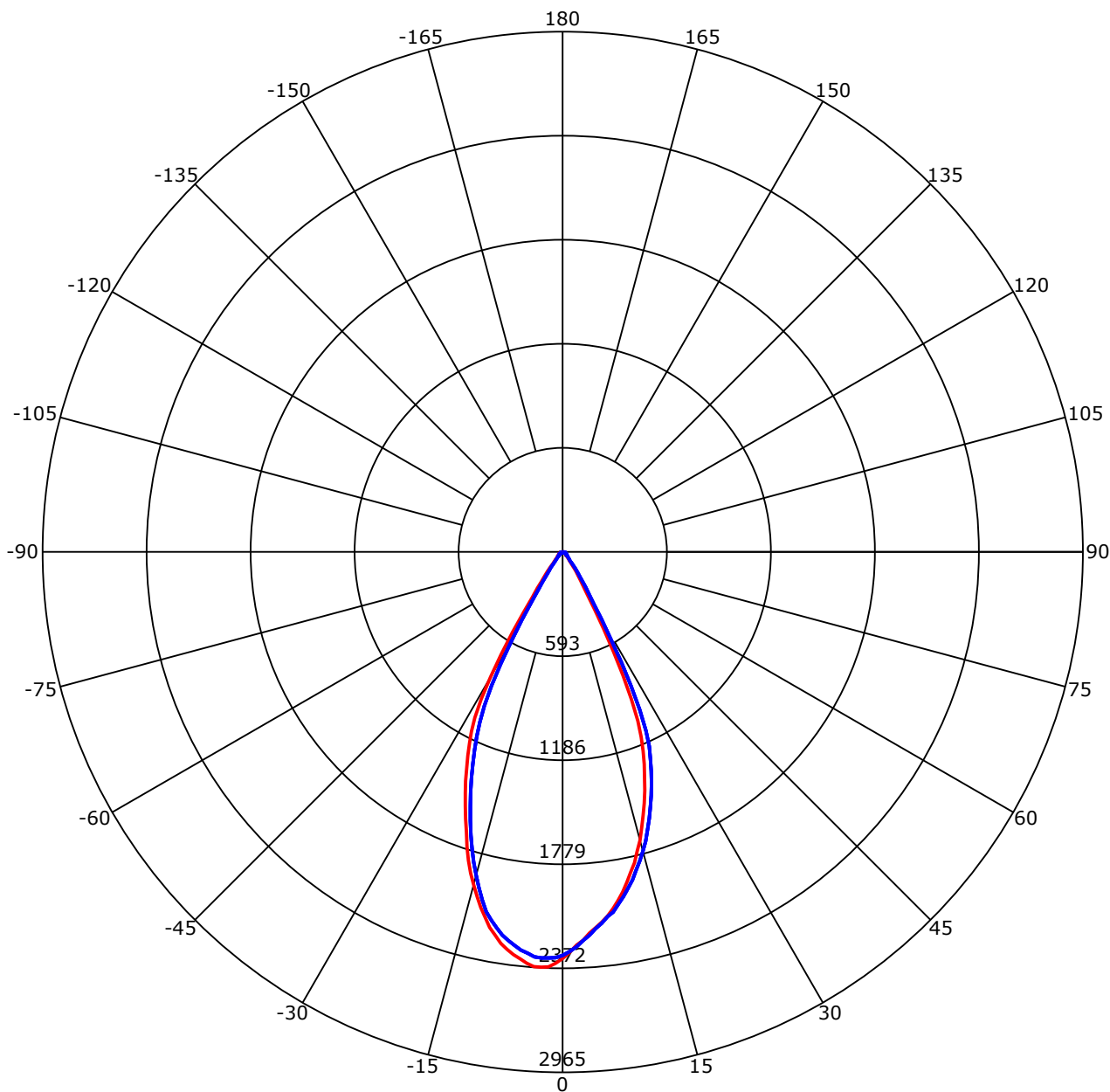
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

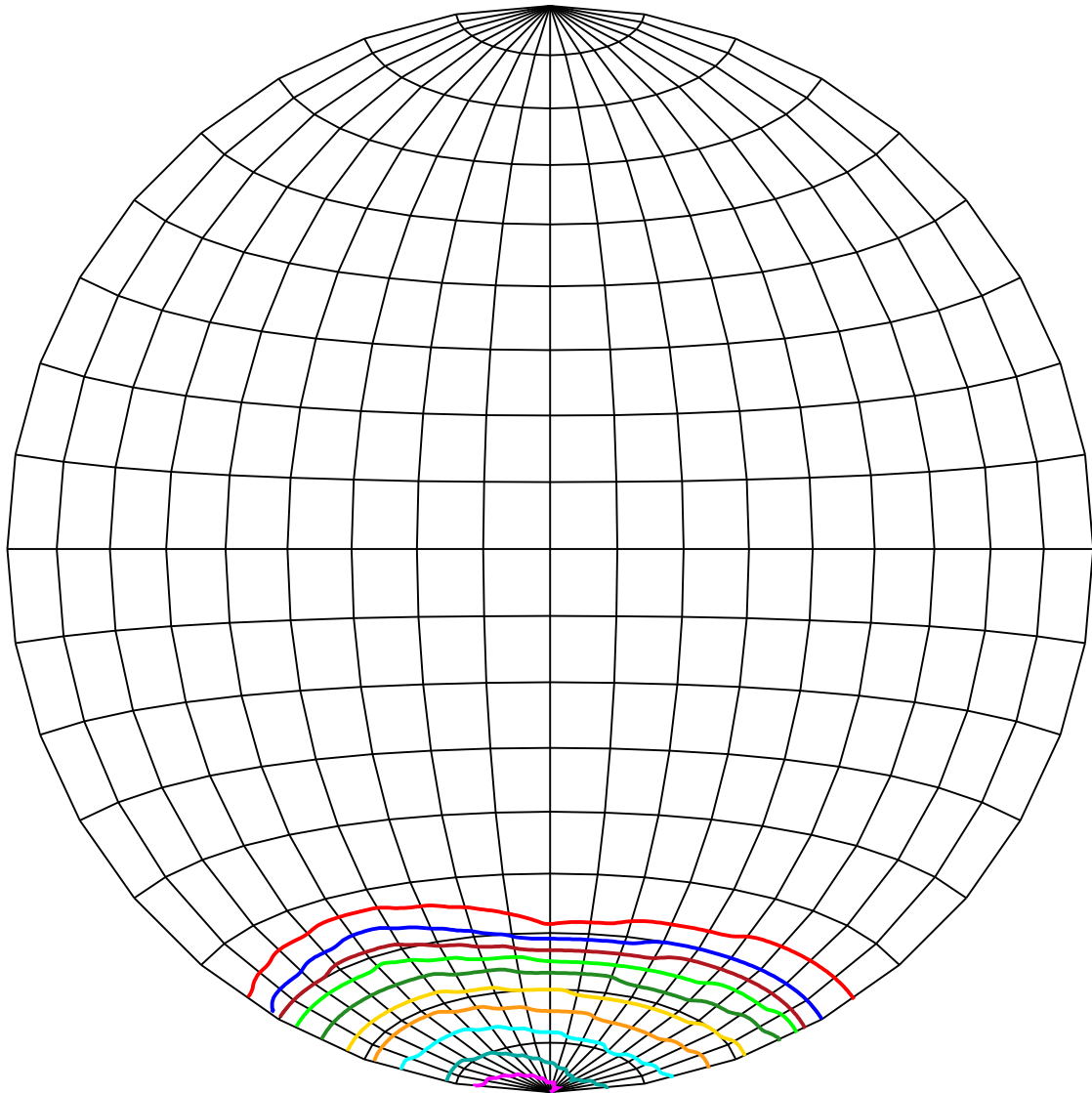
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 2372.212 cd

2253.601(95%I _{max})	1186.106(50%I _{max})
2134.991(90%I _{max})	948.885(40%I _{max})
1897.77(80%I _{max})	711.664(30%I _{max})
1660.548(70%I _{max})	474.442(20%I _{max})
1423.327(60%I _{max})	237.221(10%I _{max})

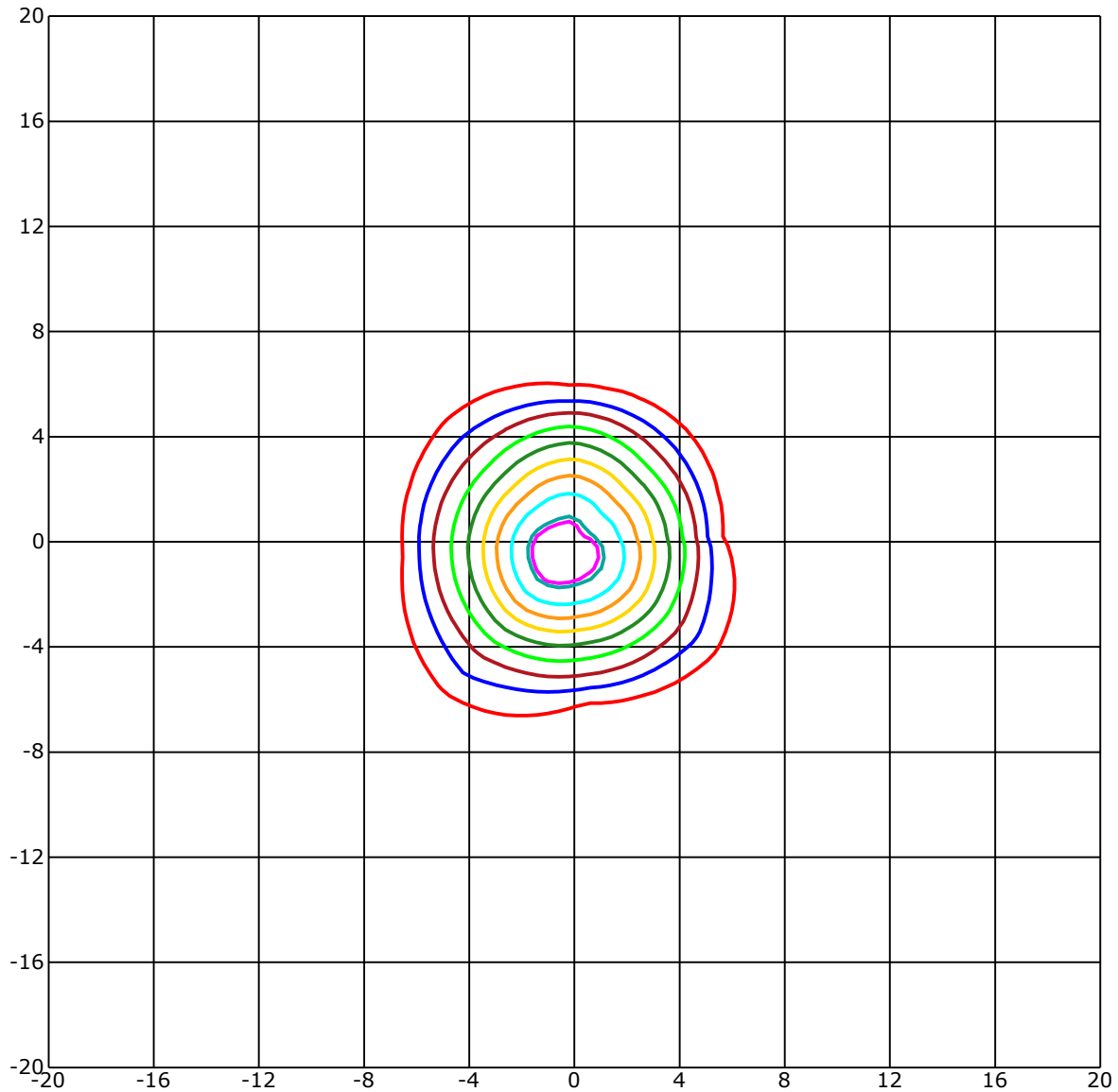
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Temperature: 25
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ISOLX DIAGRAM



Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

21.728(92%Emax)	11.809(50%Emax)
21.256(90%Emax)	9.447(40%Emax)
18.894(80%Emax)	7.085(30%Emax)
16.532(70%Emax)	4.723(20%Emax)
14.17(60%Emax)	2.362(10%Emax)

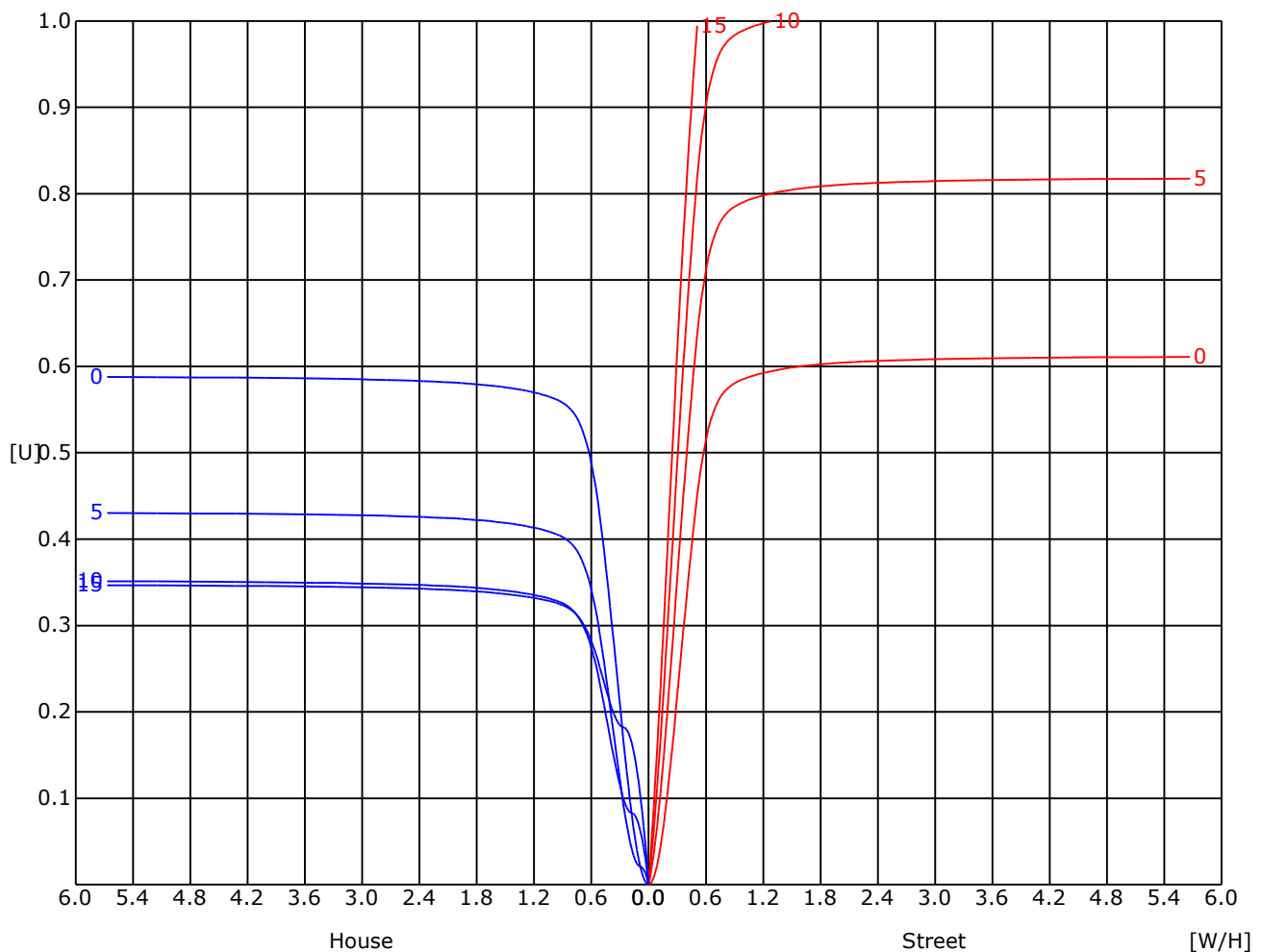
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UTILIZATION FACTOR DIAGRAM (ROAD)



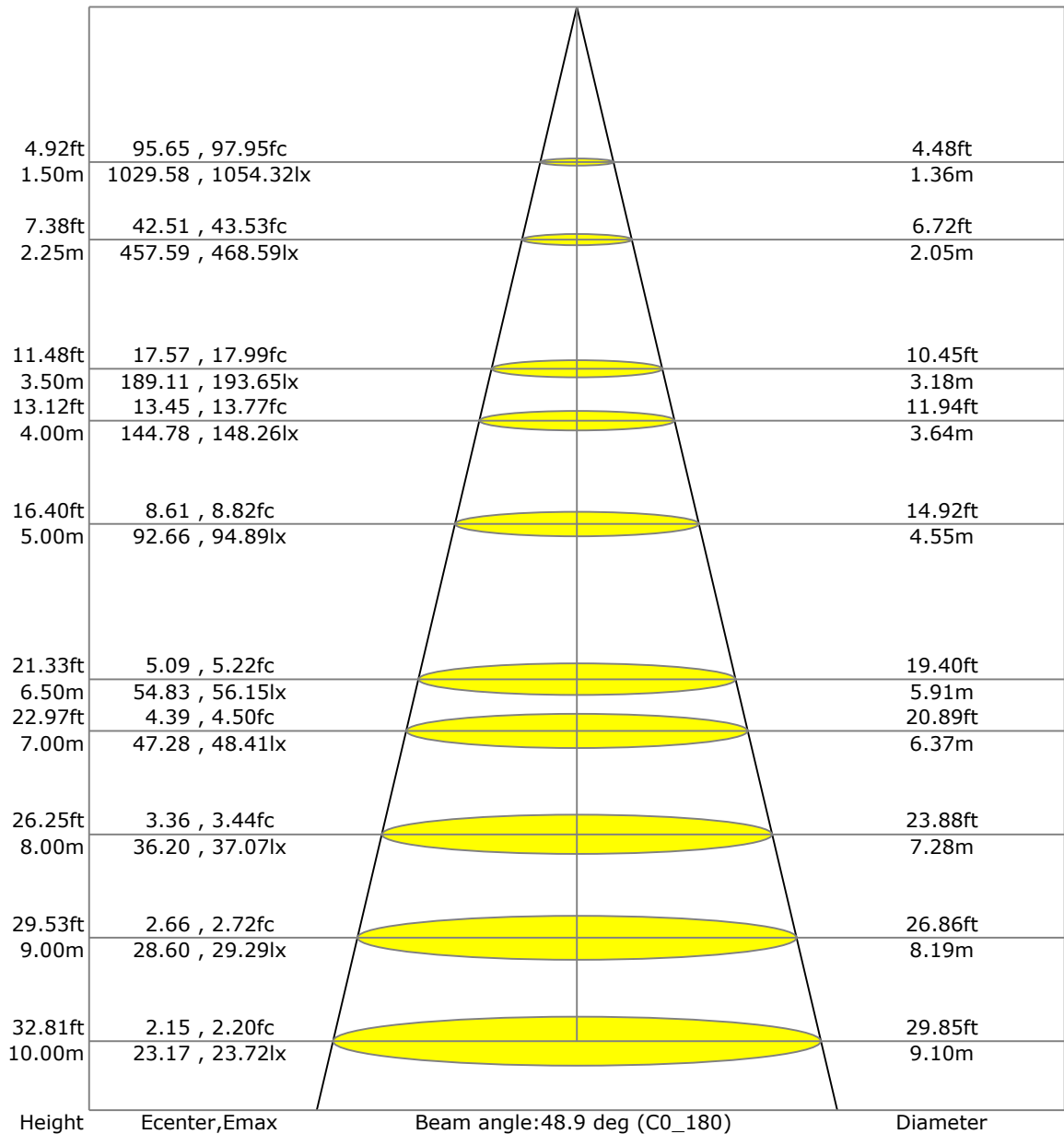
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G Range: 0 - 90 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
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Humidity: 60
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Remarks:

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UGR(Unified Glare Rating) TABLE

RHOCC		70	70	50	50	30	70	70	50	50	30
RHOW		50	30	50	30	30	50	30	50	30	30
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewed Endwise					Viewed Crosswise				
2H	2H	8.61	8.66	8.81	8.84	9.09	8.88	8.93	9.08	9.12	9.36
	3H	8.65	8.70	8.85	8.89	9.14	8.90	8.95	9.11	9.15	9.39
	4H	8.65	8.70	8.86	8.90	9.15	8.90	8.95	9.11	9.14	9.39
	6H	8.64	8.69	8.85	8.89	9.14	8.88	8.93	9.10	9.13	9.39
	8H	8.63	8.68	8.85	8.88	9.14	8.87	8.93	9.09	9.13	9.38
	12H	8.62	8.67	8.84	8.88	9.13	8.87	8.92	9.09	9.12	9.38
4H	2H	9.26	9.31	9.47	9.51	9.76	9.84	9.89	10.05	10.08	10.33
	3H	9.40	9.45	9.62	9.65	9.91	9.95	10.00	10.17	10.21	10.46
	4H	9.42	9.47	9.65	9.69	9.94	9.96	10.02	10.19	10.23	10.49
	6H	9.42	9.47	9.66	9.69	9.96	9.95	10.00	10.19	10.22	10.48
	8H	9.42	9.47	9.66	9.69	9.96	9.94	9.99	10.18	10.21	10.48
	12H	9.41	9.45	9.65	9.68	9.95	9.93	9.97	10.17	10.20	10.47
8H	4H	9.37	9.42	9.58	9.62	9.87	10.25	10.30	10.47	10.51	10.76
	6H	9.56	9.61	9.82	9.85	10.12	10.48	10.52	10.73	10.76	11.03
	8H	9.55	9.60	9.82	9.84	10.12	10.46	10.50	10.72	10.75	11.03
	12H	9.54	9.58	9.81	9.84	10.12	10.44	10.49	10.71	10.74	11.02
12H	4H	9.55	9.59	9.80	9.83	10.10	10.63	10.68	10.88	10.91	11.18
	6H	9.55	9.59	9.81	9.84	10.11	10.64	10.68	10.90	10.93	11.20

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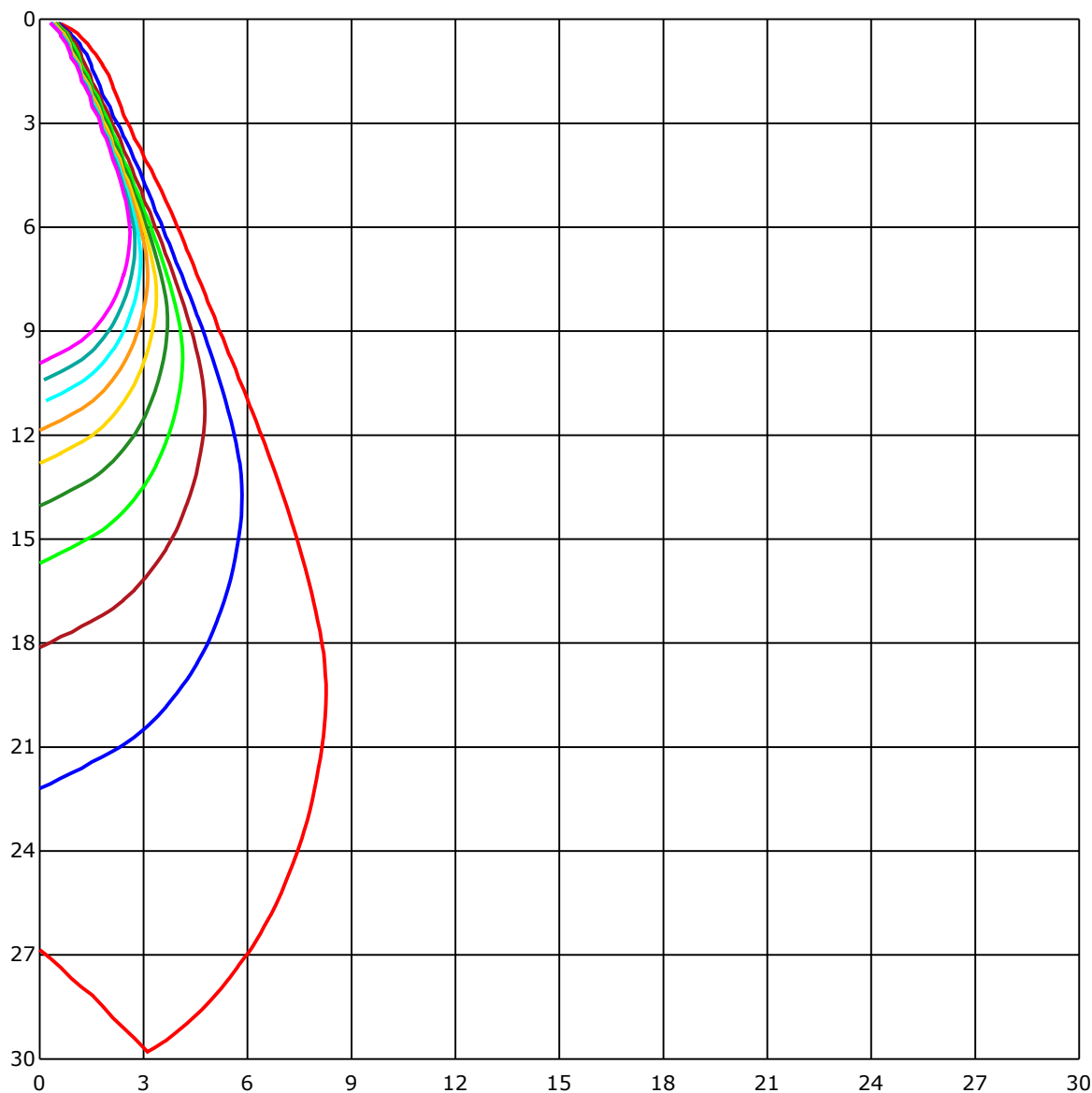
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

23.511

21.16

18.809

16.458

14.107

11.755

9.404

7.053

4.702

2.351

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2316.55	2250.83	2298.1	2313.27	2316.55	2250.83	2298.1	2313.27	2316.55	
G1	2281.89	2203.56	2276.78	2303.58	2343.08	2282.84	2311.66	2307.21	2281.89	
G2	2240.77	2164.69	2251.01	2285.08	2366.06	2317.85	2314.48	2292.49	2240.77	
G3	2215.55	2130.03	2217.79	2263.44	2368.76	2343.08	2316.19	2281.94	2215.55	
G4	2176.58	2101.17	2189.38	2231.48	2368.89	2366.51	2312.15	2260.84	2176.58	
G5	2149.15	2068.53	2154.68	2203.96	2351.88	2372.21	2295.36	2241.27	2149.15	
G6	2120.56	2035.49	2126.62	2164.78	2331.45	2368.58	2280.86	2223.9	2120.56	
G7	2090.48	1999.54	2093.09	2135.15	2310.49	2363.59	2258.51	2197.64	2090.48	
G8	2051.97	1963.13	2071.36	2101.12	2285.75	2347.79	2235.16	2177.48	2051.97	
G9	2011.03	1921.7	2031.0	2071.09	2258.28	2326.6	2209.62	2155.66	2011.03	
G10	1966.95	1884.66	1993.25	2030.24	2218.28	2299.18	2173.26	2118.81	1966.95	
G11	1916.53	1829.67	1951.82	1988.94	2180.17	2268.47	2136.58	2075.13	1916.53	
G12	1863.43	1781.46	1910.2	1934.89	2128.73	2227.62	2096.59	2029.84	1863.43	
G13	1817.42	1725.53	1861.18	1880.22	2077.46	2183.63	2036.39	1983.24	1817.42	
G14	1755.02	1670.0	1813.51	1821.28	2021.85	2140.67	1972.87	1927.71	1755.02	
G15	1700.57	1611.6	1765.84	1761.17	1963.44	2088.82	1908.32	1872.32	1700.57	
G16	1632.56	1548.62	1714.62	1699.94	1904.46	2033.29	1839.05	1809.16	1632.56	
G17	1568.68	1487.61	1652.98	1643.65	1836.94	1966.32	1766.24	1748.33	1568.68	
G18	1504.98	1424.14	1595.71	1579.01	1764.67	1894.9	1695.77	1677.36	1504.98	
G19	1437.42	1363.35	1534.61	1515.58	1688.45	1820.83	1619.0	1610.88	1437.42	
G20	1362.64	1294.9	1474.82	1451.47	1617.7	1743.62	1541.25	1535.73	1362.64	
G21	1295.12	1223.84	1411.57	1386.79	1550.91	1664.7	1464.9	1464.81	1295.12	
G22	1222.76	1153.4	1346.92	1321.79	1480.61	1591.35	1388.99	1397.34	1222.76	
G23	1144.74	1081.45	1279.54	1260.56	1416.59	1518.14	1310.74	1323.4	1144.74	
G24	1052.76	1009.17	1210.86	1197.31	1347.19	1445.37	1236.59	1242.82	1052.76	
G25	925.36	924.37	1123.01	1135.09	1279.5	1369.5	1159.33	1173.6	925.36	
G26	782.07	833.83	1000.55	1066.36	1212.08	1298.67	1078.21	1101.69	782.07	
G27	638.52	738.4	858.43	1000.06	1147.61	1228.68	984.93	1033.1	638.52	
G28	497.16	644.8	710.92	927.97	1068.56	1162.2	862.7	957.55	497.16	
G29	376.67	550.04	568.53	843.17	956.92	1091.14	727.8	878.36	376.67	
G30	285.9	465.02	440.06	756.13	822.79	1024.66	589.32	790.56	285.9	
G31	231.95	381.07	342.78	668.23	681.12	962.89	452.4	705.45	231.95	
G32	191.19	305.16	285.59	580.25	538.37	896.23	336.09	613.96	191.19	
G33	159.0	236.93	241.15	491.46	410.97	817.99	250.71	524.72	159.0	
G34	134.18	180.95	203.85	406.79	310.41	738.4	202.77	439.79	134.18	
G35	112.45	141.09	172.33	329.67	250.62	649.02	165.51	355.3	112.45	
G36	91.67	114.38	145.04	257.0	205.82	560.5	135.43	277.96	91.67	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	73.48	96.11	119.32	195.27	170.04	472.96	111.42	213.86	73.48	
G38	61.95	80.44	96.06	146.61	142.66	388.12	91.8	162.32	61.95	
G39	53.78	67.07	79.86	114.78	120.57	309.29	75.19	129.73	53.78	
G40	47.49	57.5	69.09	95.57	101.18	238.73	63.29	108.95	47.49	
G41	42.83	50.59	60.69	79.95	84.66	178.17	54.63	92.38	42.83	
G42	39.1	44.13	55.08	66.71	72.09	136.42	48.53	78.2	39.1	
G43	36.27	39.59	50.37	57.1	63.88	111.1	43.27	68.95	36.27	
G44	34.07	36.36	46.46	50.41	57.32	93.64	39.82	60.69	34.07	
G45	32.41	33.76	43.36	44.22	52.34	78.51	37.03	54.54	32.41	
G46	30.7	31.96	40.98	39.82	48.26	67.78	34.83	49.96	30.7	
G47	29.22	30.26	38.87	36.63	44.85	59.57	33.22	45.43	29.22	
G48	27.7	28.73	37.17	34.43	42.33	53.82	31.51	42.74	27.7	
G49	26.26	27.2	35.15	32.46	40.27	49.38	29.94	40.49	26.26	
G50	25.05	25.99	33.62	31.02	38.47	45.65	28.15	38.56	25.05	
G51	23.84	24.6	32.1	29.4	36.5	42.91	26.8	36.54	23.84	
G52	22.53	23.39	30.48	27.83	34.61	40.76	25.45	35.01	22.53	
G53	21.28	22.22	28.73	26.62	33.13	38.61	24.33	33.31	21.28	
G54	20.07	21.23	27.61	25.14	31.51	36.76	23.12	31.51	20.07	
G55	18.94	20.07	25.86	23.97	29.99	34.97	21.68	30.35	18.94	
G56	17.64	19.12	24.6	22.85	28.33	33.49	20.56	28.95	17.64	
G57	16.7	18.18	23.39	21.86	26.98	31.78	19.35	27.47	16.7	
G58	15.53	17.28	21.95	20.74	25.63	30.17	18.32	26.13	15.53	
G59	14.32	16.3	20.34	19.84	24.29	28.82	17.19	24.91	14.32	
G60	13.2	15.17	19.12	18.67	22.8	27.43	16.03	23.7	13.2	
G61	11.76	14.19	17.73	17.73	21.37	26.13	14.72	22.49	11.76	
G62	10.91	13.33	16.07	16.52	19.84	24.91	13.51	21.28	10.91	
G63	10.59	12.21	14.86	15.44	18.4	23.66	11.81	20.02	10.59	
G64	10.23	11.04	14.41	14.23	16.56	22.58	10.5	19.12	10.23	
G65	9.88	10.37	13.87	12.88	14.54	21.1	10.06	17.73	9.88	
G66	9.43	9.88	13.47	11.63	13.92	19.66	9.7	16.61	9.43	
G67	9.2	9.34	12.93	10.55	13.33	18.36	9.43	15.22	9.2	
G68	8.71	9.11	12.43	9.88	12.93	16.88	9.02	14.23	8.71	
G69	8.3	8.8	12.03	9.47	12.57	15.71	8.62	13.87	8.3	
G70	7.86	8.21	11.63	8.93	11.99	14.59	8.35	13.15	7.86	
G71	7.5	7.72	11.09	8.62	11.45	13.69	7.99	12.66	7.5	
G72	7.05	7.18	10.68	8.21	10.91	13.02	7.68	11.9	7.05	
G73	6.55	6.69	10.23	7.9	10.55	12.57	7.36	11.49	6.55	

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Test Speed: High

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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