

Report No.:

Test Time: 2024/5/18 15:56:57

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT075H94-60°-14.6W
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): 14.65 W
Power Factor: 0.9500
Lamp Luminous Flux: 1516.48

Photometric Results

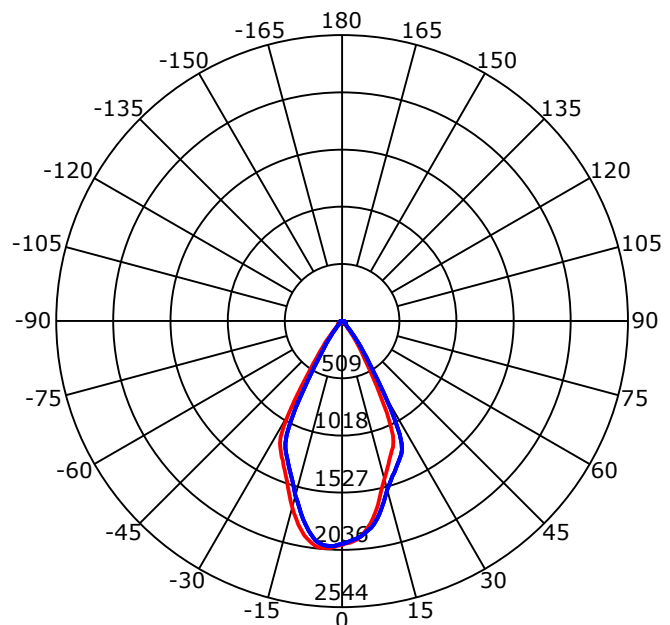
CIE Class: Direct
Luminaire Luminous Flux: 1516.484 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 103.51 lm/W
Beam Angle(50%) C0-180,C90-270: 54.6,55.2
Field Angle(10%) C0-180,C90-270: 74.1,74.3
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 2035.58 cd
Max.Intensity Angle: C=225 Gamma=7
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1992.26 cd
Effective Luminous Flux: 1389.50 lm
ERP(ϕ use)(120deg): 1488.11 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 54.6 deg,55.2 deg

C0-180 — C90-270

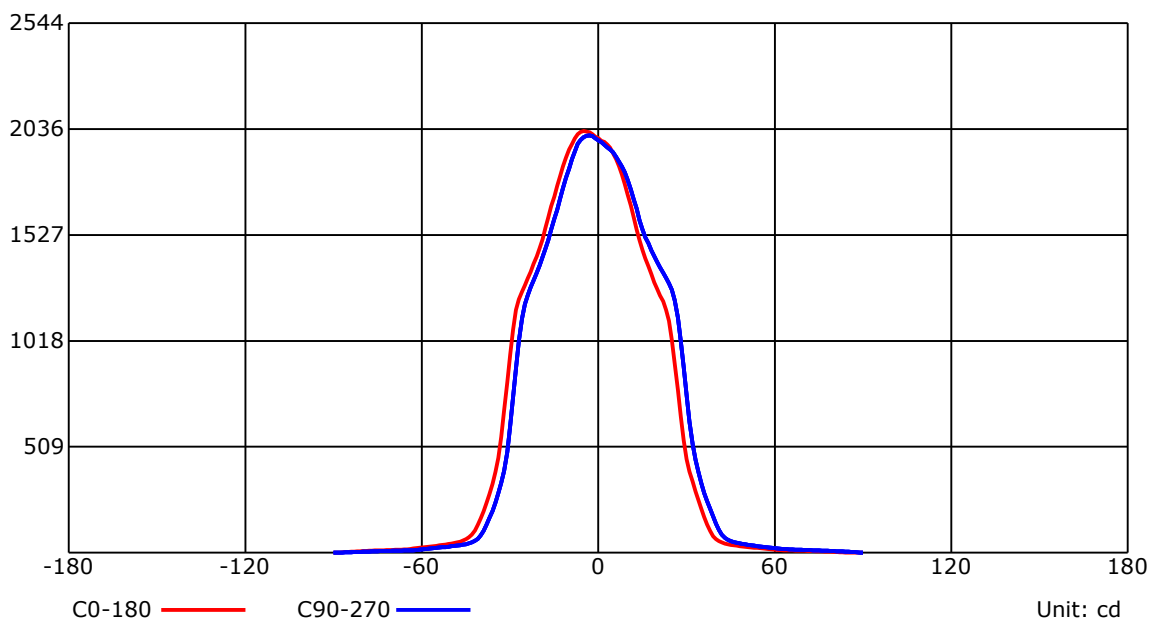
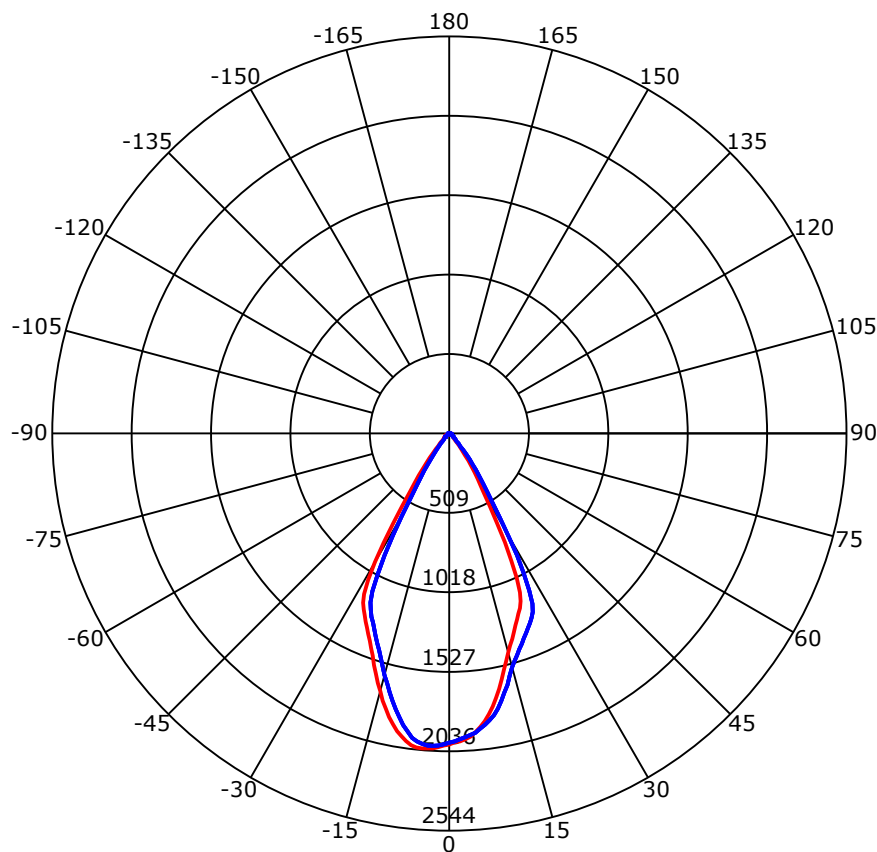
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/18 15:56:57

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



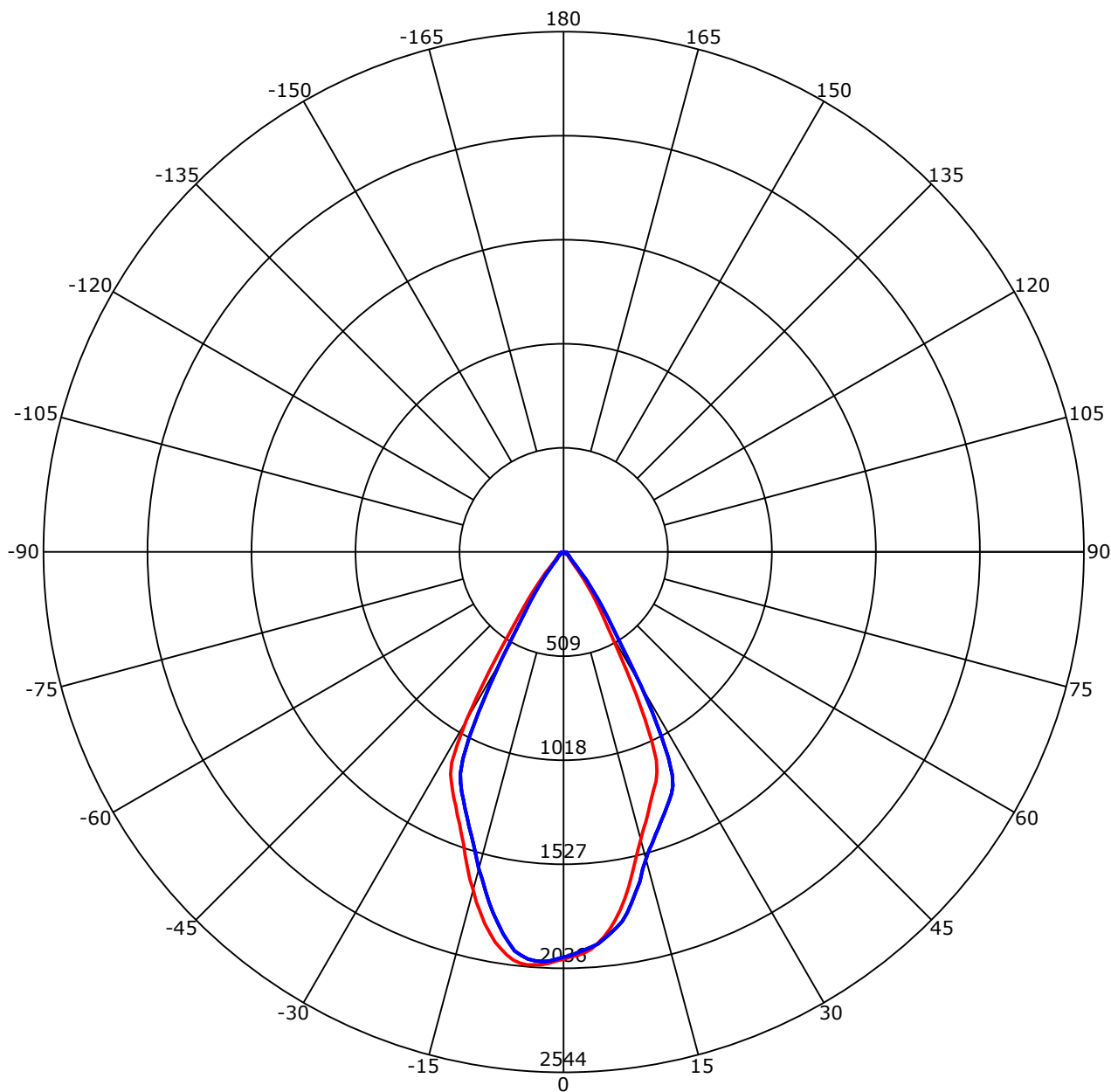
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

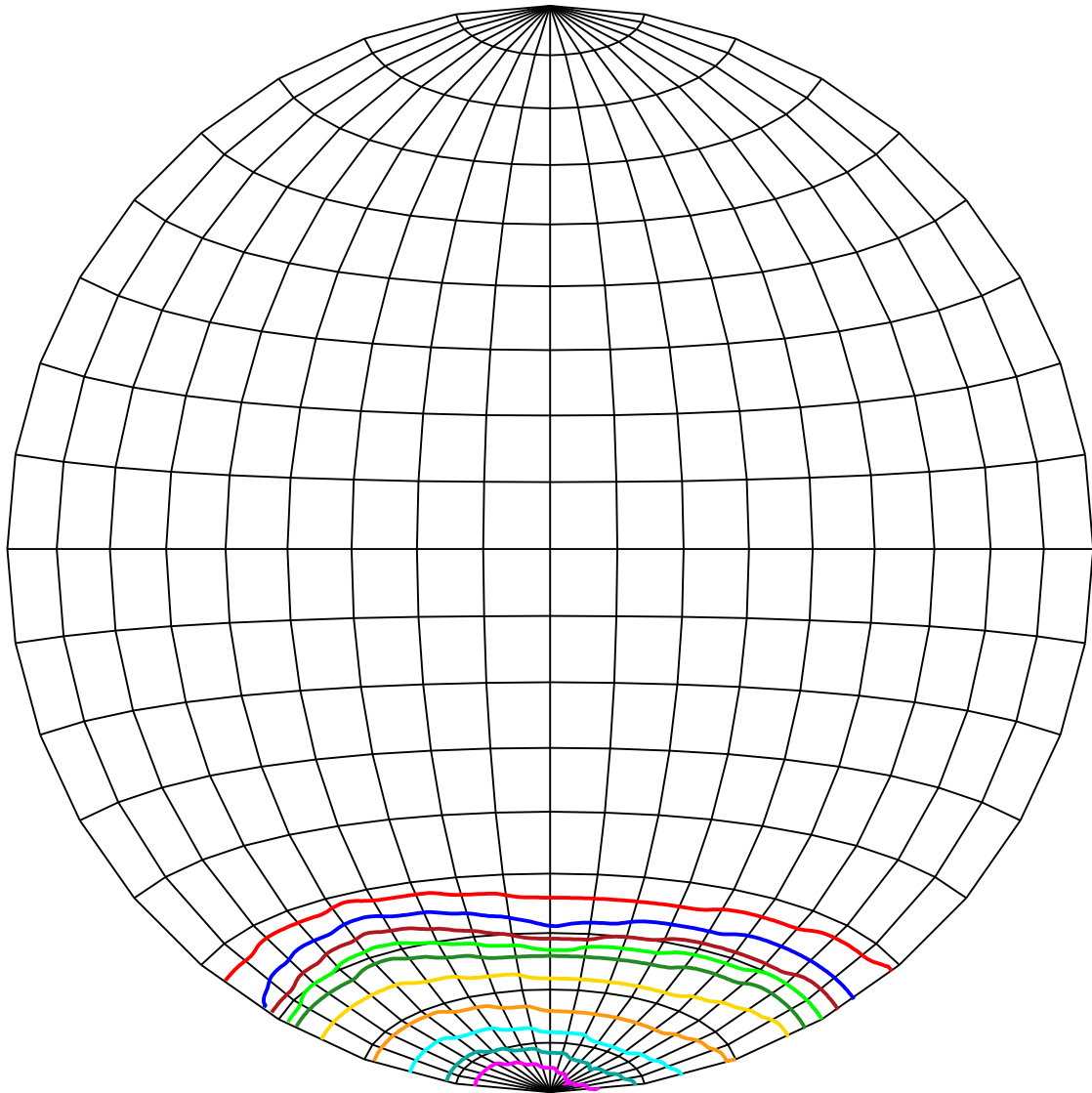
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2035.582 cd

1933.803(95%Imax)	1017.791(50%Imax)
1832.024(90%Imax)	814.233(40%Imax)
1628.466(80%Imax)	610.675(30%Imax)
1424.907(70%Imax)	407.116(20%Imax)
1221.349(60%Imax)	203.558(10%Imax)

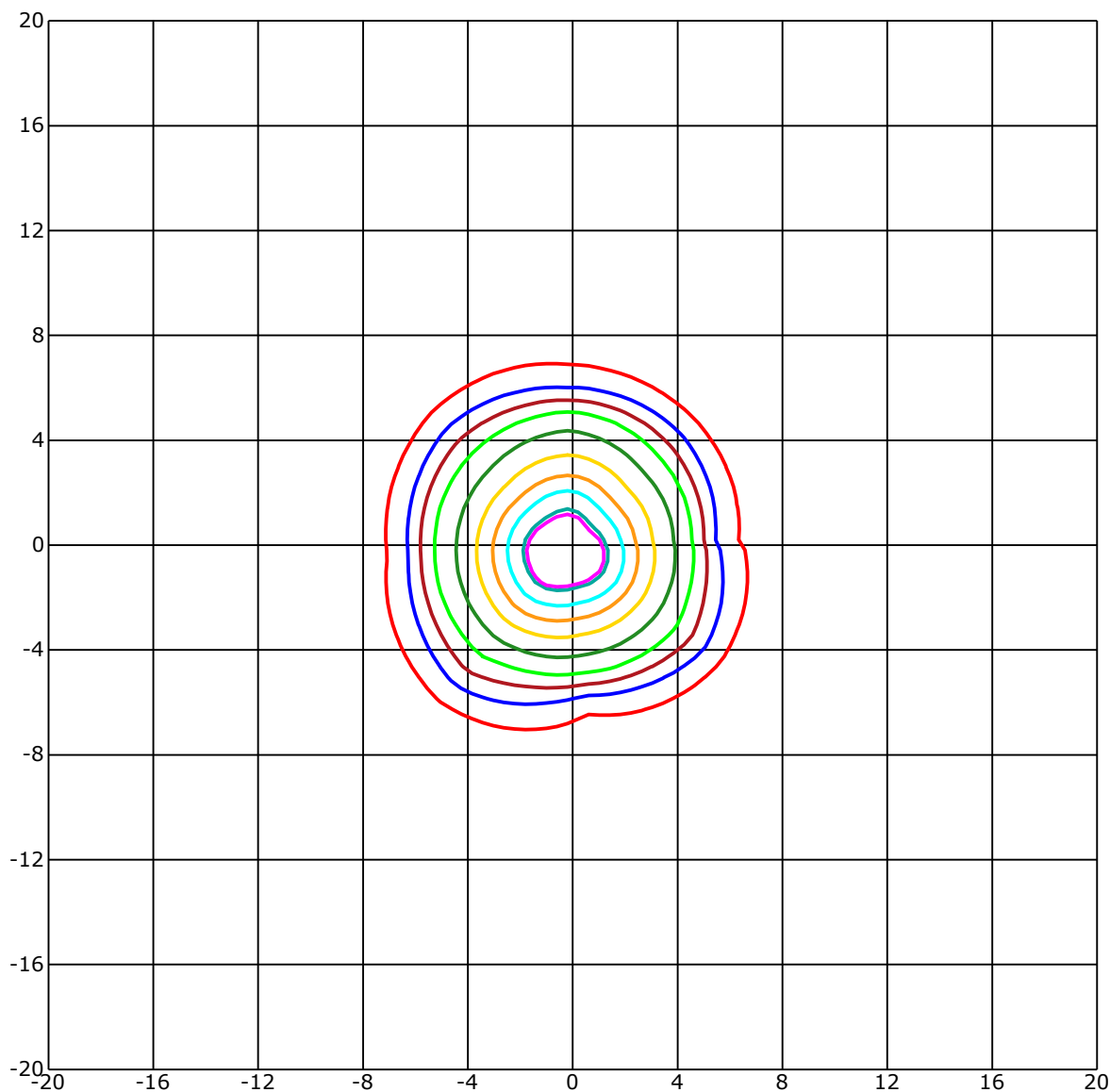
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ISOLX DIAGRAM



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

18.51(92%Emax)	10.06(50%Emax)
18.107(90%Emax)	8.048(40%Emax)
16.095(80%Emax)	6.036(30%Emax)
14.084(70%Emax)	4.024(20%Emax)
12.072(60%Emax)	2.012(10%Emax)

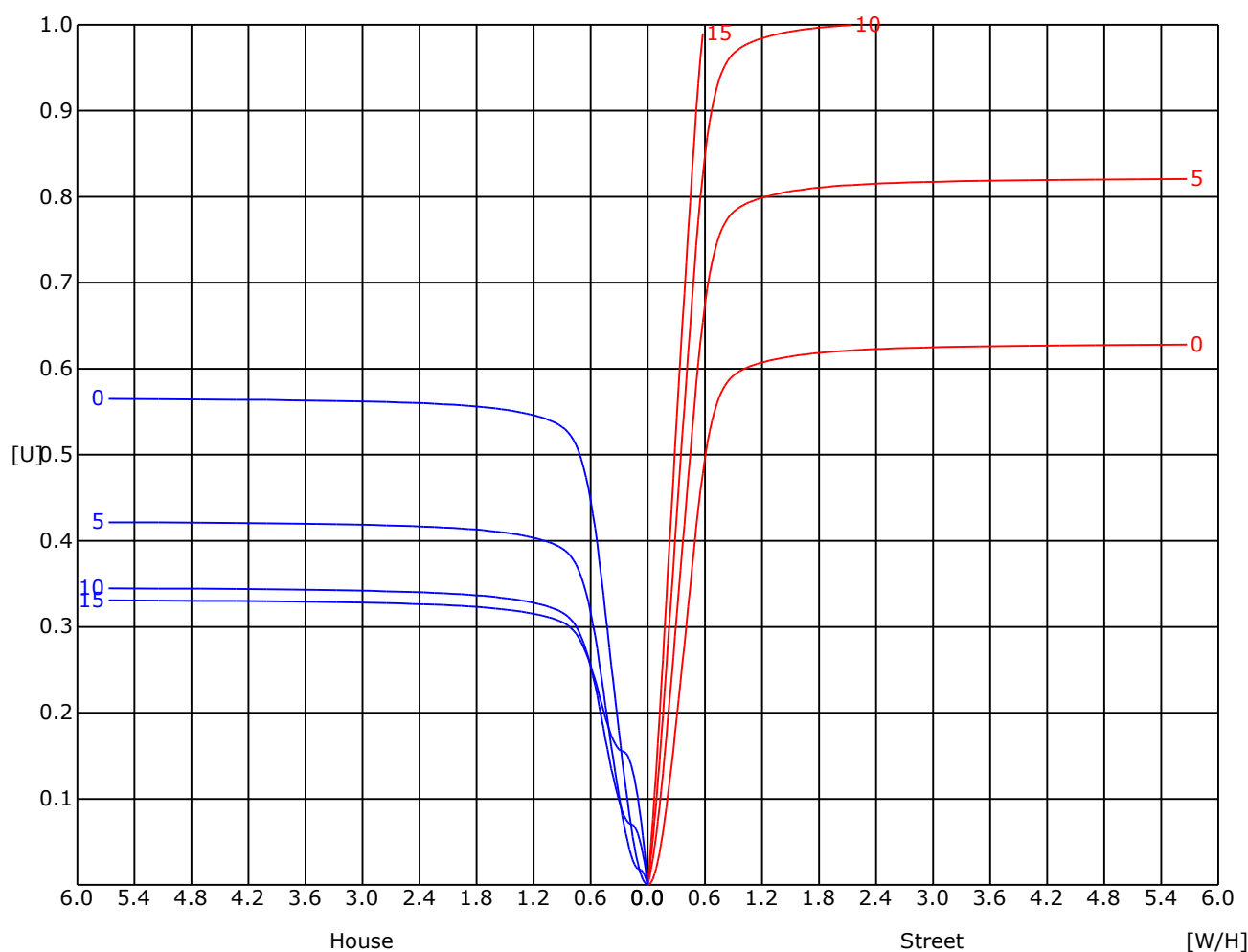
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UTILIZATION FACTOR DIAGRAM (ROAD)



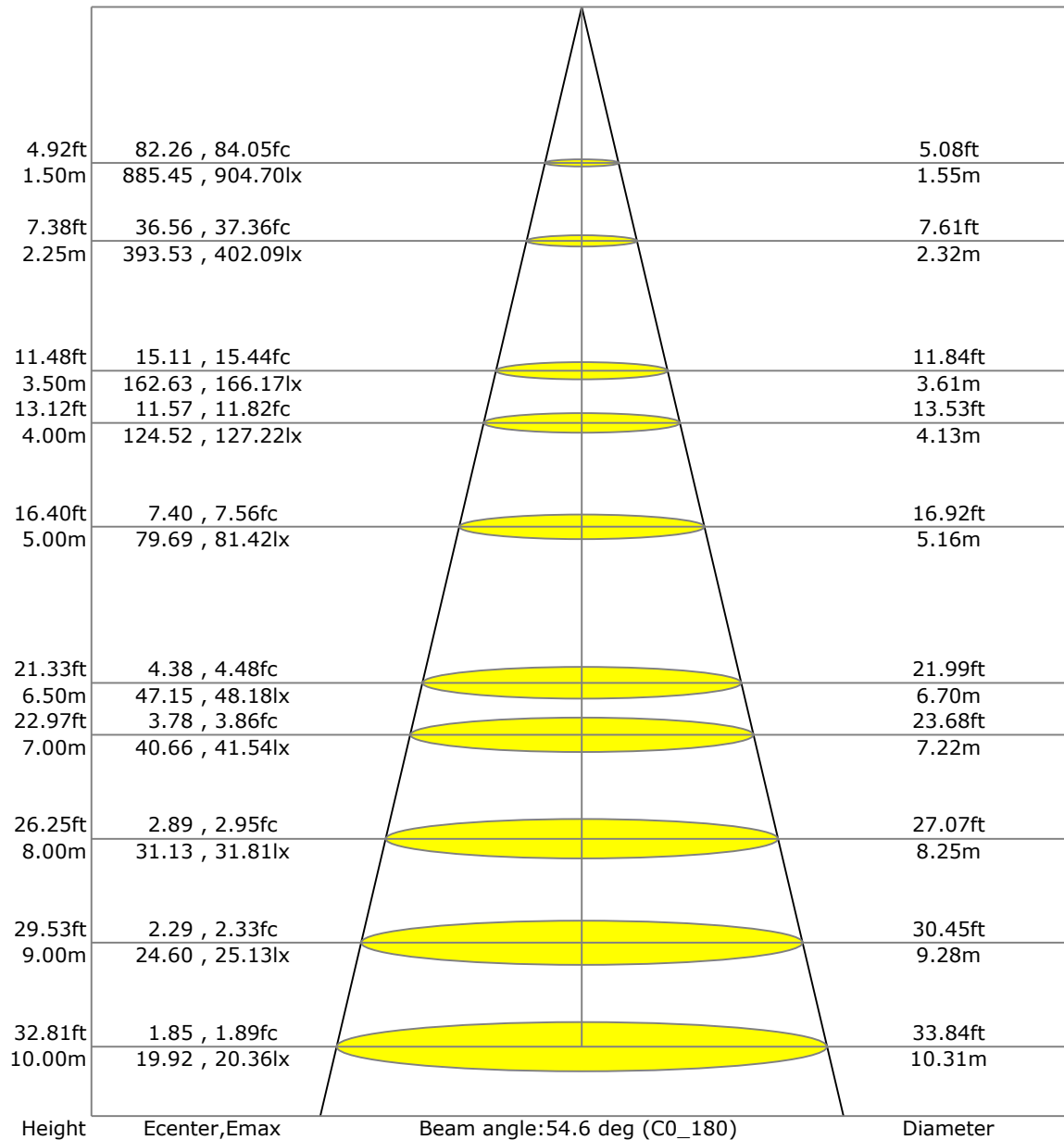
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/5/18 15:56:57

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
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 Humidity: 60
 Test Distance: 6.81 m
 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	11.84	11.89	12.04	12.08	12.32	12.00	12.05	12.20	12.24	12.48
3H	11.85	11.90	12.05	12.09	12.34	12.00	12.05	12.21	12.24	12.49
4H	11.84	11.89	12.05	12.09	12.34	11.99	12.04	12.20	12.24	12.48
6H	11.83	11.88	12.04	12.08	12.33	11.97	12.02	12.19	12.23	12.48
8H	11.82	11.87	12.04	12.07	12.32	11.96	12.02	12.18	12.22	12.47
12H	11.81	11.86	12.03	12.06	12.32	11.95	12.01	12.18	12.21	12.47
4H 2H	12.18	12.23	12.39	12.43	12.68	12.53	12.58	12.74	12.77	13.02
3H	12.25	12.30	12.47	12.50	12.76	12.59	12.64	12.81	12.84	13.10
4H	12.26	12.31	12.49	12.52	12.78	12.59	12.64	12.82	12.85	13.11
6H	12.25	12.30	12.49	12.52	12.79	12.58	12.63	12.81	12.85	13.11
8H	12.25	12.29	12.49	12.52	12.79	12.57	12.61	12.81	12.84	13.10
12H	12.23	12.28	12.48	12.51	12.78	12.55	12.60	12.80	12.83	13.10
8H 4H	12.27	12.32	12.49	12.52	12.77	12.80	12.85	13.02	13.05	13.31
6H	12.39	12.44	12.65	12.68	12.95	12.96	13.00	13.21	13.24	13.51
8H	12.39	12.43	12.65	12.67	12.95	12.94	12.99	13.21	13.23	13.51
12H	12.37	12.41	12.64	12.67	12.95	12.93	12.97	13.20	13.22	13.50
12H 4H	12.38	12.43	12.63	12.66	12.93	13.08	13.12	13.32	13.35	13.62
6H	12.38	12.43	12.65	12.67	12.95	13.08	13.13	13.35	13.37	13.65

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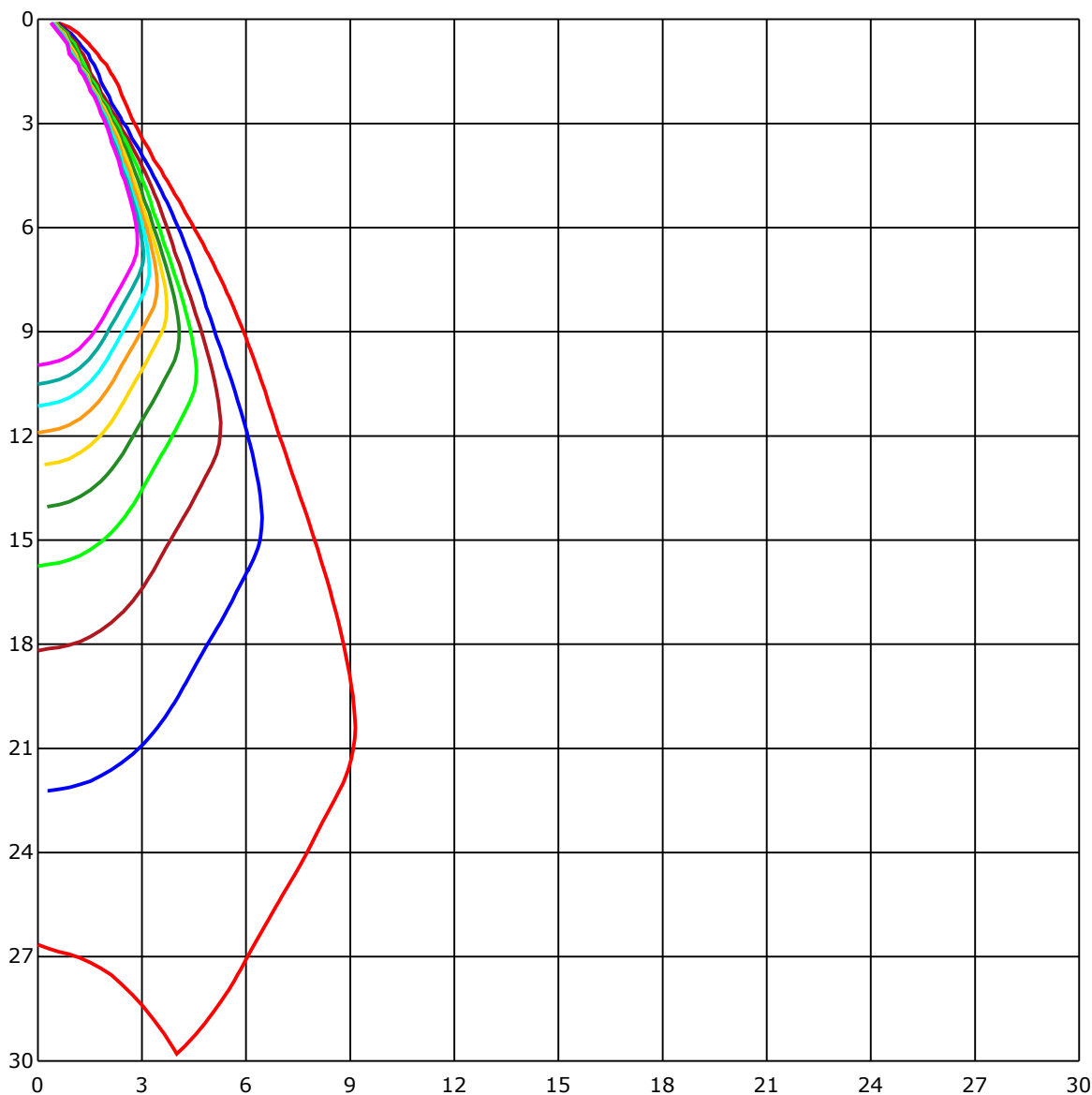
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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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SPACE ISOLX DIAGRAM



Unit of illumination:lx

20.072	10.036
18.065	8.029
16.058	6.022
14.05	4.014
12.043	2.007

C Range: 0 - 360 Deg
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Test Date: 2024/5/18 15:56:57

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	1992.26	1959.76	1981.18	1983.78	1992.26	1959.76	1981.18	1983.78	1992.26	
G1	1979.16	1951.55	1972.65	1979.78	1998.91	1976.82	1991.14	1983.38	1979.16	
G2	1973.54	1933.01	1960.03	1975.25	2011.57	1987.59	2001.42	1986.43	1973.54	
G3	1961.2	1919.14	1948.45	1964.52	2020.23	2006.63	2005.01	1986.38	1961.2	
G4	1945.71	1888.07	1936.55	1953.16	2022.74	2018.57	2003.4	1985.93	1945.71	
G5	1920.08	1861.54	1924.52	1937.18	2026.29	2030.69	1997.56	1975.07	1920.08	
G6	1891.22	1828.55	1901.18	1926.68	2022.52	2030.87	1983.06	1961.02	1891.22	
G7	1856.65	1789.99	1879.23	1903.65	2011.43	2035.58	1964.97	1936.06	1856.65	
G8	1816.92	1748.47	1855.8	1877.43	1990.65	2020.81	1928.47	1907.69	1816.92	
G9	1771.49	1697.52	1827.74	1843.09	1963.49	2001.47	1890.32	1866.98	1771.49	
G10	1720.95	1644.64	1790.66	1810.23	1936.82	1979.2	1844.89	1833.13	1720.95	
G11	1667.62	1593.24	1744.83	1769.92	1897.19	1936.2	1800.31	1784.2	1667.62	
G12	1610.47	1542.02	1697.11	1727.64	1857.64	1899.07	1752.87	1733.92	1610.47	
G13	1552.34	1498.92	1653.66	1674.44	1809.2	1854.99	1701.47	1686.83	1552.34	
G14	1501.8	1456.5	1597.32	1623.31	1763.73	1805.48	1648.63	1625.83	1501.8	
G15	1455.47	1425.48	1553.55	1569.44	1711.39	1763.5	1605.18	1571.82	1455.47	
G16	1413.5	1389.57	1515.58	1527.02	1664.48	1720.14	1552.12	1524.33	1413.5	
G17	1376.37	1361.56	1486.08	1488.64	1610.92	1673.1	1501.39	1477.29	1376.37	
G18	1338.13	1330.63	1452.87	1450.08	1559.93	1622.86	1459.73	1433.7	1338.13	
G19	1299.52	1298.44	1425.44	1416.41	1505.7	1573.04	1419.74	1391.41	1299.52	
G20	1267.29	1270.79	1396.93	1387.28	1463.55	1527.29	1380.1	1355.81	1267.29	
G21	1236.14	1241.97	1371.48	1356.04	1422.79	1484.33	1344.73	1318.24	1236.14	
G22	1208.08	1212.79	1345.49	1327.53	1387.51	1443.8	1307.92	1288.39	1208.08	
G23	1166.6	1180.34	1320.04	1300.15	1349.3	1403.94	1276.22	1257.5	1166.6	
G24	1114.57	1140.92	1294.67	1269.94	1319.45	1364.43	1237.48	1225.99	1114.57	
G25	1021.52	1100.07	1262.71	1238.2	1285.29	1327.85	1194.93	1193.89	1021.52	
G26	907.59	1037.54	1212.66	1209.16	1253.51	1293.15	1124.94	1159.82	907.59	
G27	782.03	960.06	1129.07	1168.49	1217.24	1263.34	1015.95	1118.7	782.03	
G28	654.09	872.17	1016.31	1127.59	1166.15	1224.82	883.66	1060.8	654.09	
G29	539.71	780.41	892.95	1068.25	1071.21	1181.06	747.1	989.87	539.71	
G30	449.39	683.9	758.78	994.27	951.85	1134.19	610.19	911.0	449.39	
G31	389.15	588.46	629.13	904.98	818.93	1077.67	483.96	822.25	389.15	
G32	341.75	494.55	521.17	813.72	684.12	999.48	392.25	726.63	341.75	
G33	294.16	405.72	446.84	711.6	555.56	913.74	335.91	628.19	294.16	
G34	252.19	327.61	387.89	613.51	456.17	816.41	286.49	532.44	252.19	
G35	211.12	260.5	334.48	516.06	388.25	716.26	241.01	437.5	211.12	
G36	170.76	208.92	287.03	423.99	331.6	612.7	200.93	348.97	170.76	

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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

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	135.03	171.3	247.7	339.82	280.83	512.78	165.87	271.0	135.03	
G38	103.43	141.45	210.13	270.15	238.32	416.18	133.59	210.8	103.43	
G39	79.46	114.92	174.17	213.09	199.36	328.42	105.18	168.56	79.46	
G40	64.91	93.15	139.29	172.47	165.42	252.33	82.96	138.13	64.91	
G41	55.57	78.11	109.49	143.33	133.55	195.27	67.07	112.81	55.57	
G42	49.06	68.14	86.14	116.76	106.93	156.8	56.83	96.02	49.06	
G43	43.54	59.79	71.06	95.21	87.18	130.59	49.78	84.98	43.54	
G44	40.27	52.12	61.5	79.5	74.02	109.35	44.67	75.95	40.27	
G45	37.57	45.34	55.39	68.59	64.6	93.78	41.16	66.98	37.57	
G46	35.51	40.72	50.82	59.3	58.18	81.88	38.25	59.7	35.51	
G47	33.53	37.35	47.45	51.89	53.19	72.09	36.05	53.37	33.53	
G48	31.78	34.7	44.44	45.16	49.38	63.83	33.98	48.57	31.78	
G49	29.99	32.72	41.97	40.58	46.01	57.01	32.28	44.62	29.99	
G50	28.28	30.88	39.73	37.3	43.45	52.21	30.48	42.2	28.28	
G51	26.89	29.31	37.71	34.57	41.25	48.08	28.86	39.86	26.89	
G52	25.72	27.74	35.6	32.59	39.14	44.31	27.29	37.62	25.72	
G53	24.06	26.53	33.58	30.66	36.9	41.93	25.81	35.64	24.06	
G54	22.94	25.05	31.6	29.09	35.06	39.59	24.29	34.07	22.94	
G55	21.55	23.84	29.94	27.34	33.13	37.44	23.16	32.55	21.55	
G56	20.02	22.76	28.33	26.04	31.24	35.51	21.77	30.75	20.02	
G57	18.72	21.73	26.93	24.69	29.72	33.76	20.29	29.13	18.72	
G58	17.37	20.47	25.41	23.61	28.15	32.1	18.94	28.06	17.37	
G59	16.12	19.39	23.88	22.27	26.4	30.7	17.51	26.53	16.12	
G60	14.9	18.18	22.18	21.14	24.64	29.09	16.12	25.27	14.9	
G61	13.06	17.01	20.83	19.93	22.89	27.74	14.81	23.84	13.06	
G62	12.21	15.8	19.39	18.99	21.23	26.44	12.79	22.62	12.21	
G63	11.81	14.68	17.64	17.51	19.71	25.18	11.67	21.05	11.81	
G64	11.58	13.56	16.61	16.34	18.05	23.7	11.27	19.66	11.58	
G65	11.09	12.39	15.8	14.99	16.16	22.09	10.95	18.32	11.09	
G66	10.91	11.58	15.35	14.01	15.49	20.51	10.41	17.06	10.91	
G67	10.19	11.22	14.81	12.61	14.86	19.08	10.19	15.89	10.19	
G68	9.92	10.55	14.32	11.58	14.32	17.64	9.61	15.08	9.92	
G69	9.52	10.1	13.92	10.91	13.78	16.07	9.34	14.45	9.52	
G70	9.16	9.61	13.24	10.55	13.42	14.95	8.89	14.01	9.16	
G71	8.66	9.07	12.79	10.1	12.84	14.54	8.62	13.29	8.66	
G72	8.26	8.66	12.21	9.65	12.48	13.87	8.21	12.79	8.26	
G73	7.68	8.13	11.63	9.07	11.76	13.42	7.77	12.17	7.68	

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G Range: 0 - 90 Deg
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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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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
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