

Report No.:

Test Time: 2024/9/12 8:47:59

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-34.6W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

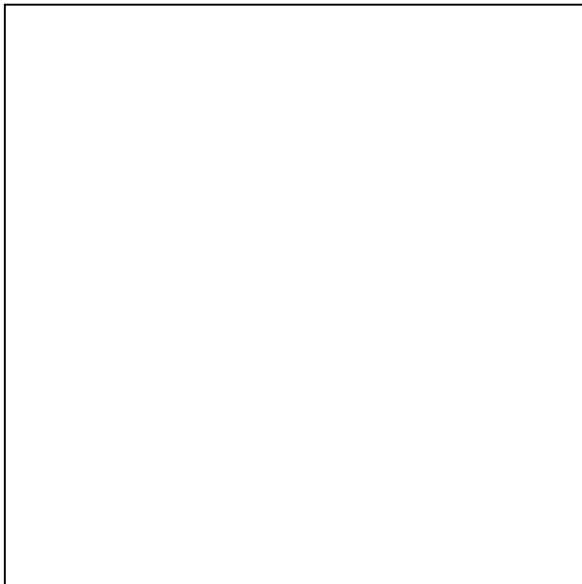
Voltage(V): 219.80 V
Current(A): 0.1620 A
Power(W): 34.63 W
Power Factor: 0.9700
Lamp Luminous Flux: 4053.65

Photometric Results

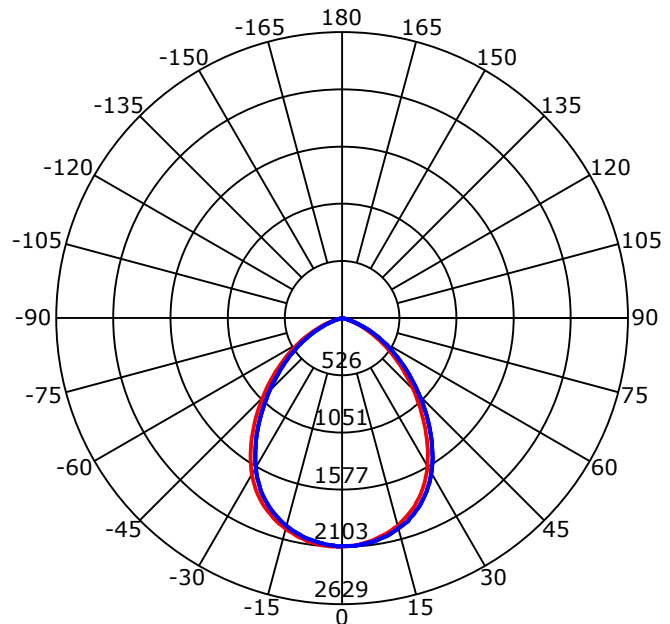
CIE Class: Direct
Luminaire Luminous Flux: 4053.65 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 117.06 lm/W
Beam Angle(50%) C0-180,C90-270: 86.5,86.5
Field Angle(10%) C0-180,C90-270: 134.2,134.3
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 2102.97 cd
Max.Intensity Angle: C=135 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2101.39 cd
Effective Luminous Flux: 3954.18 lm
ERP(ϕ use)(120deg): 3730.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 86.5 deg,86.5 deg

C0-180 — C90-270 —

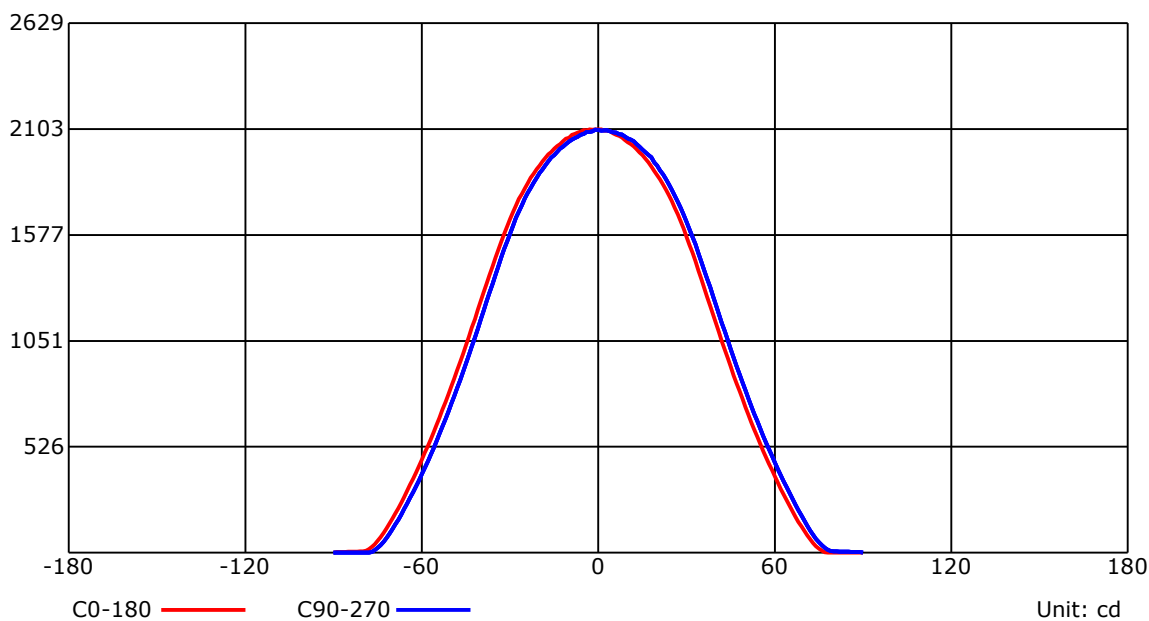
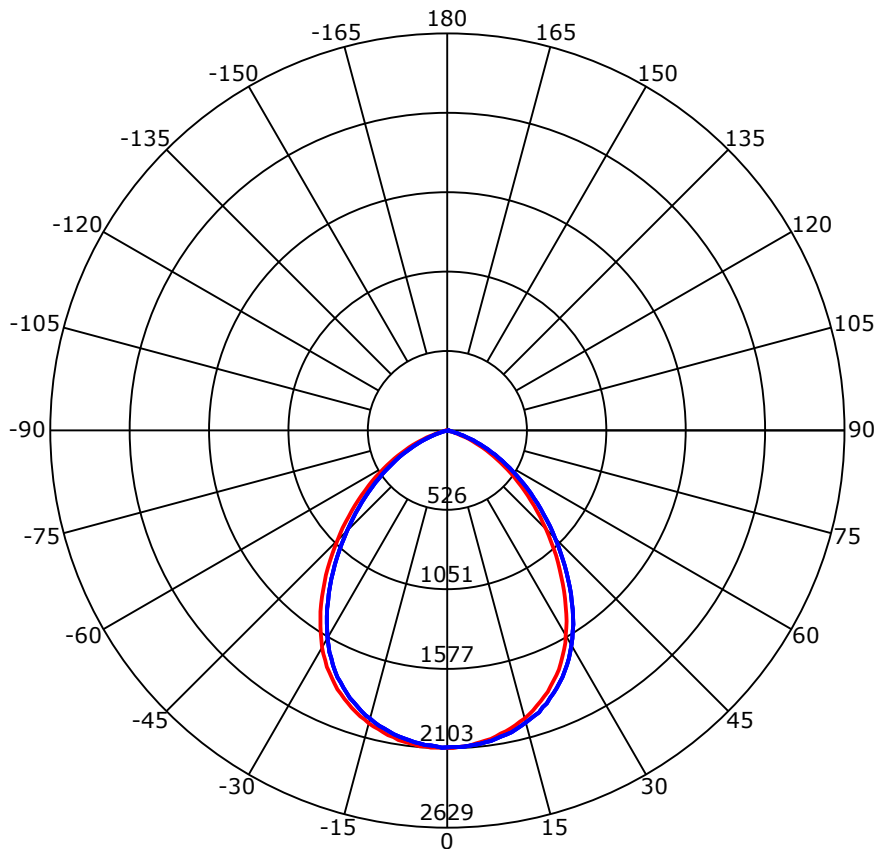
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 8:47:59

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



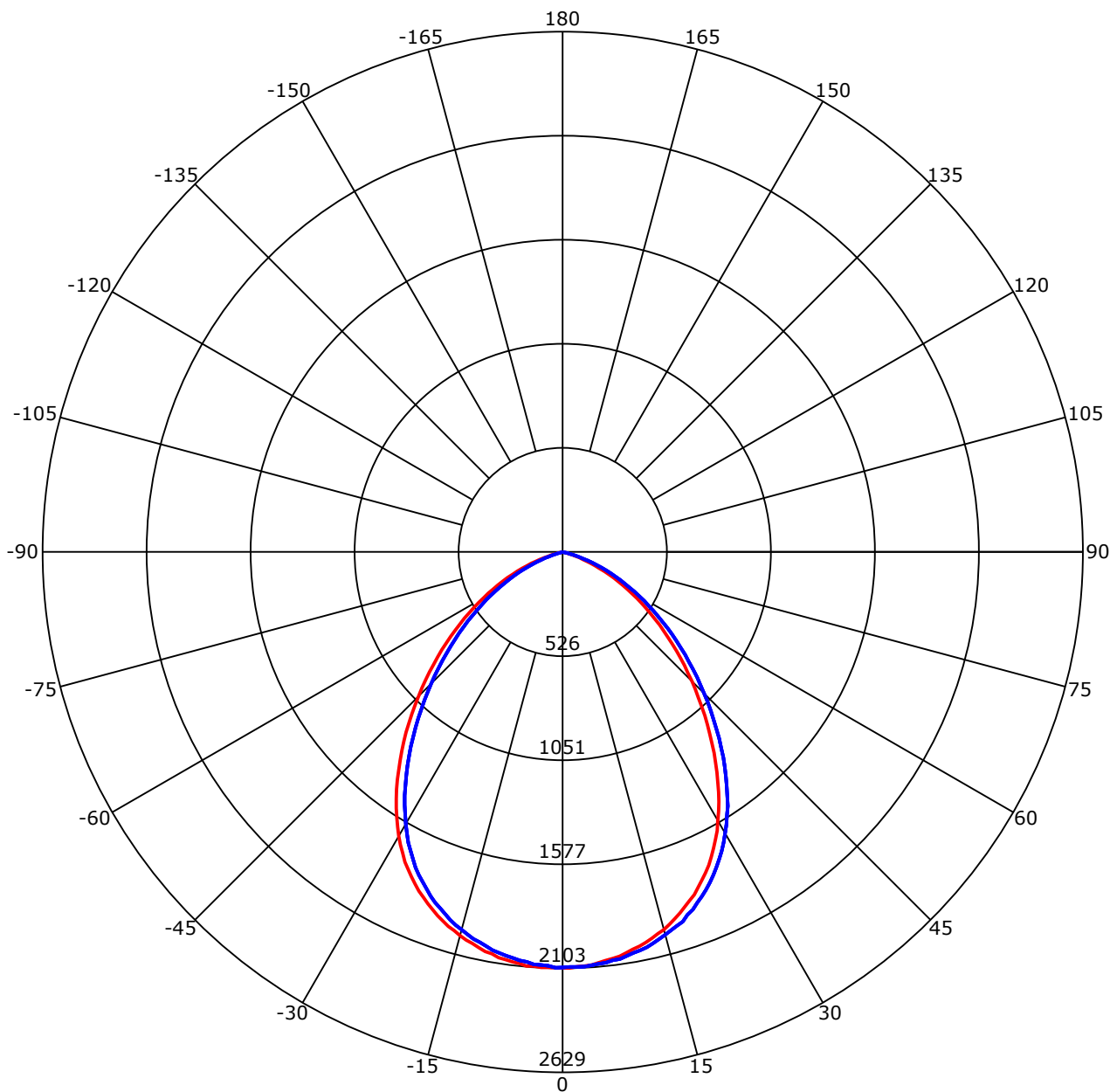
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

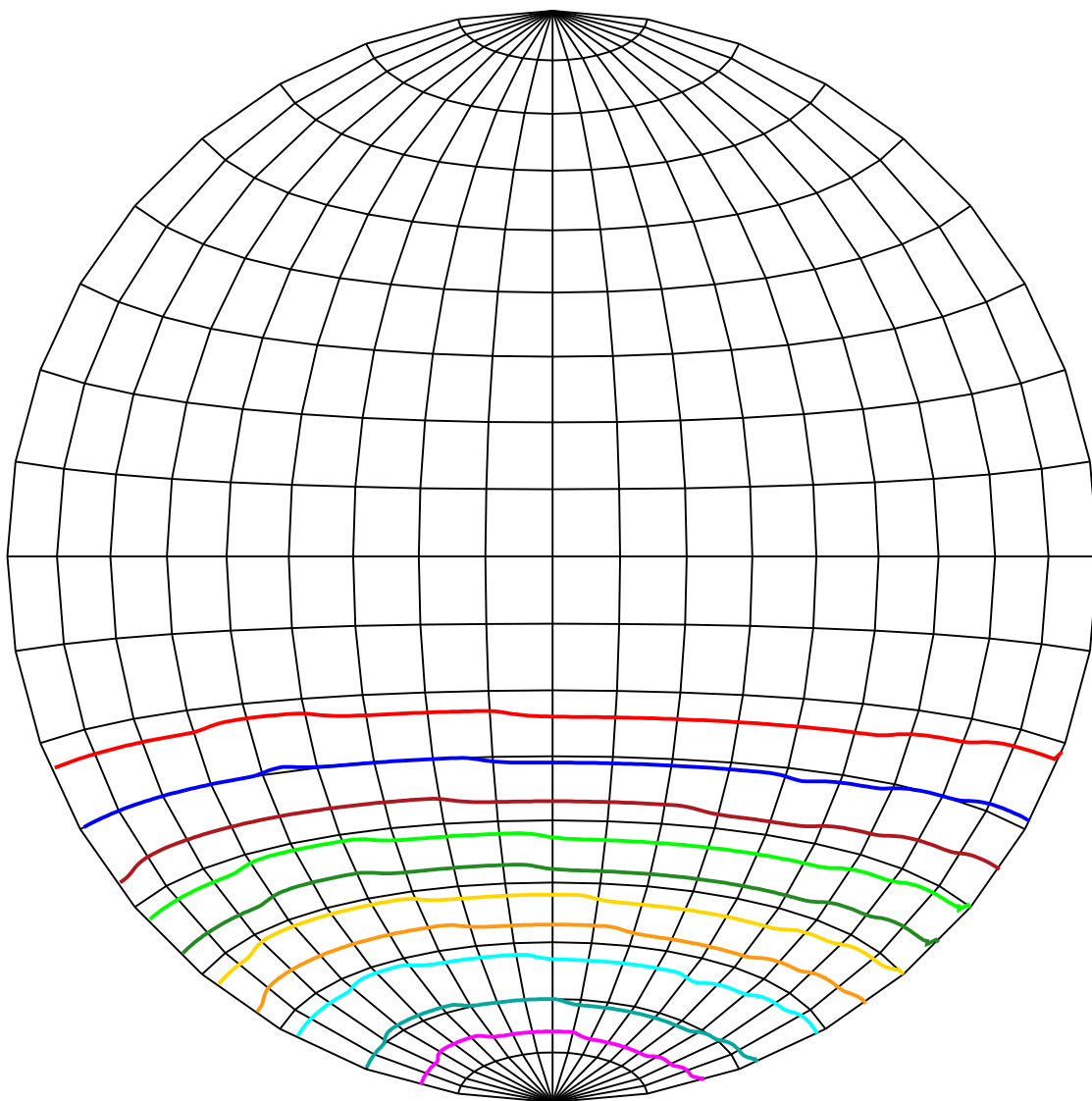
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2102.971 cd

1997.822(95%Imax)	1051.485(50%Imax)
1892.674(90%Imax)	841.188(40%Imax)
1682.377(80%Imax)	630.891(30%Imax)
1472.079(70%Imax)	420.594(20%Imax)
1261.782(60%Imax)	210.297(10%Imax)

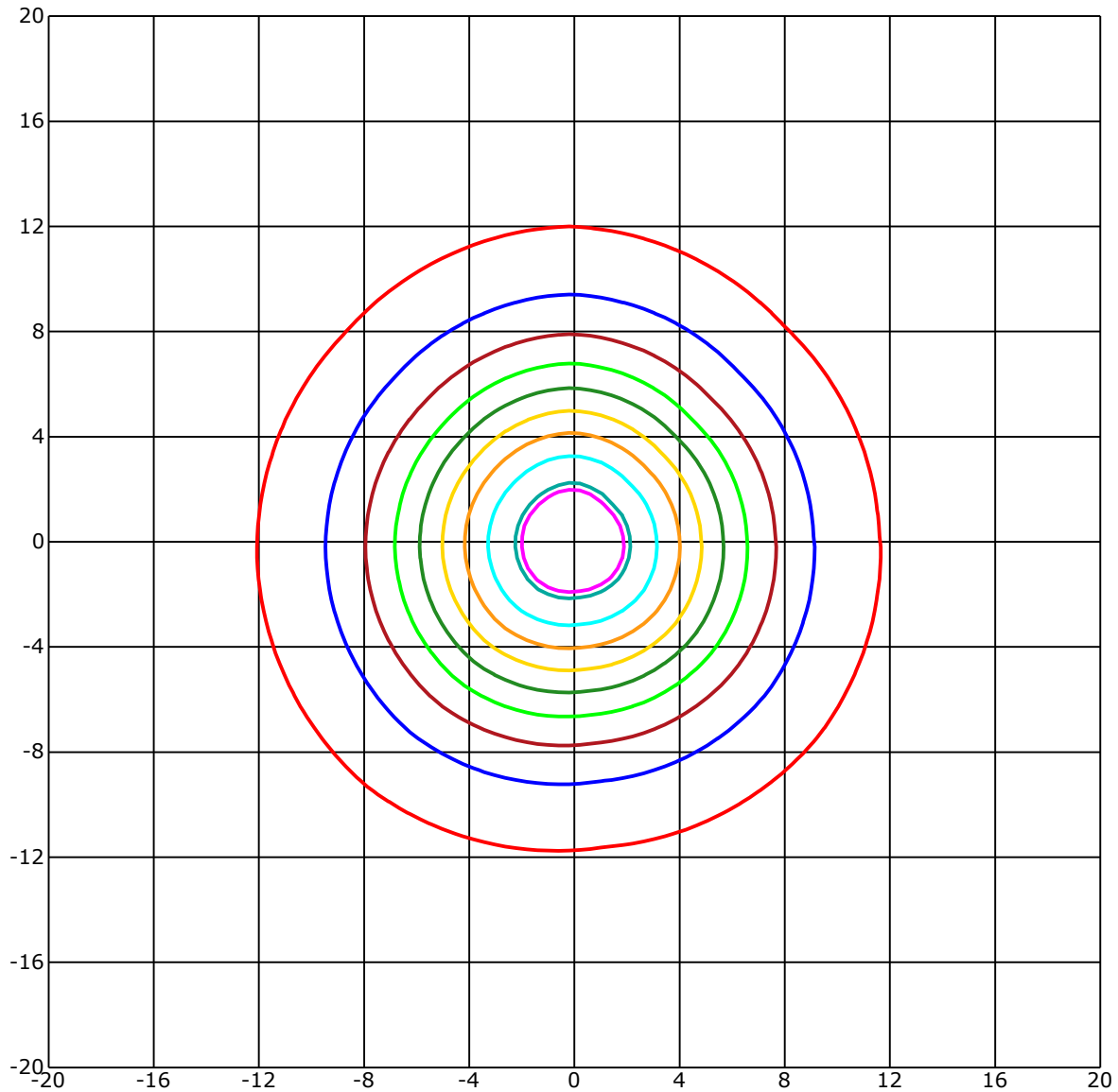
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ISOLX DIAGRAM



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

19.338(92%Emax)	10.51(50%Emax)
18.918(90%Emax)	8.408(40%Emax)
16.816(80%Emax)	6.306(30%Emax)
14.714(70%Emax)	4.204(20%Emax)
12.612(60%Emax)	2.102(10%Emax)

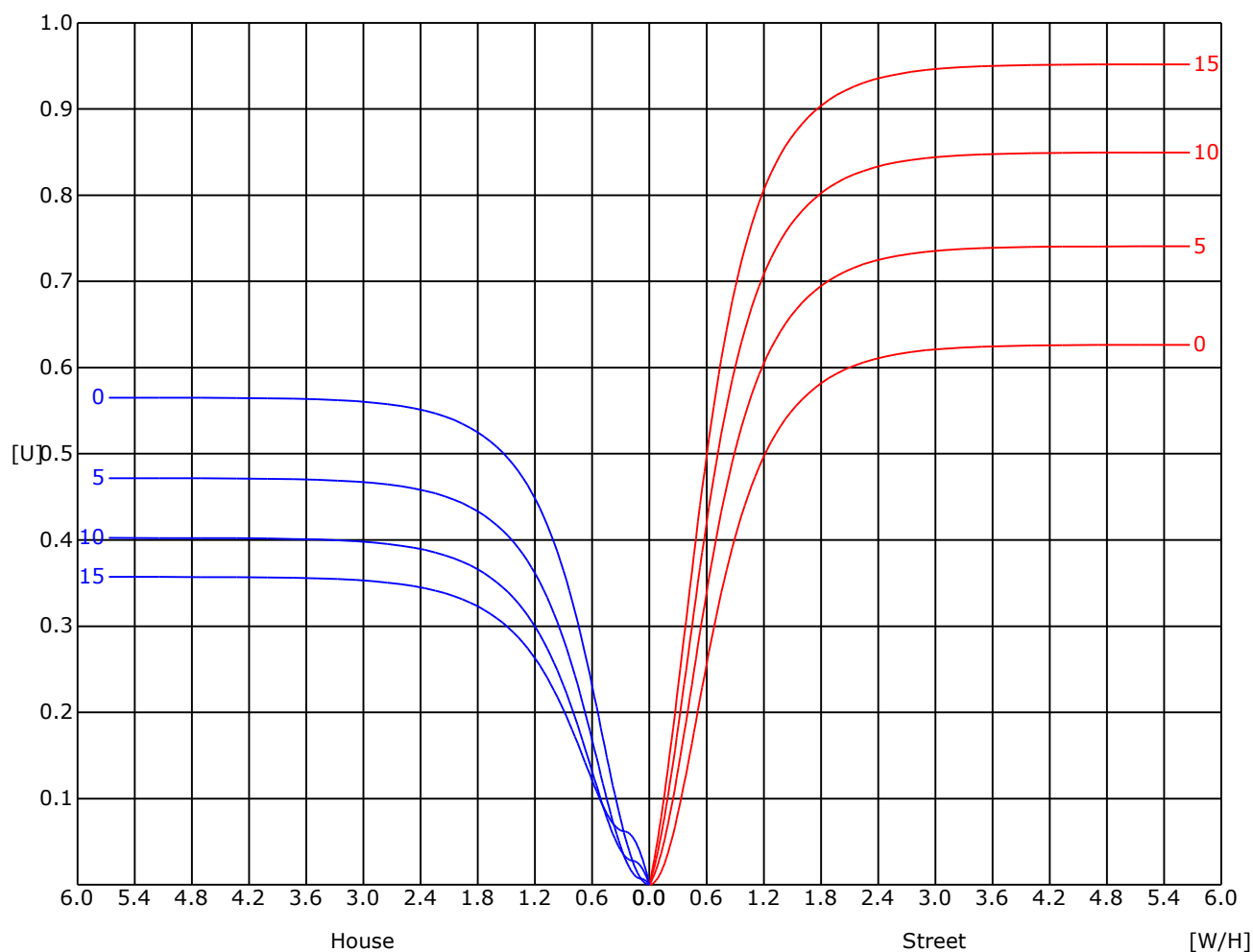
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UTILIZATION FACTOR DIAGRAM (ROAD)



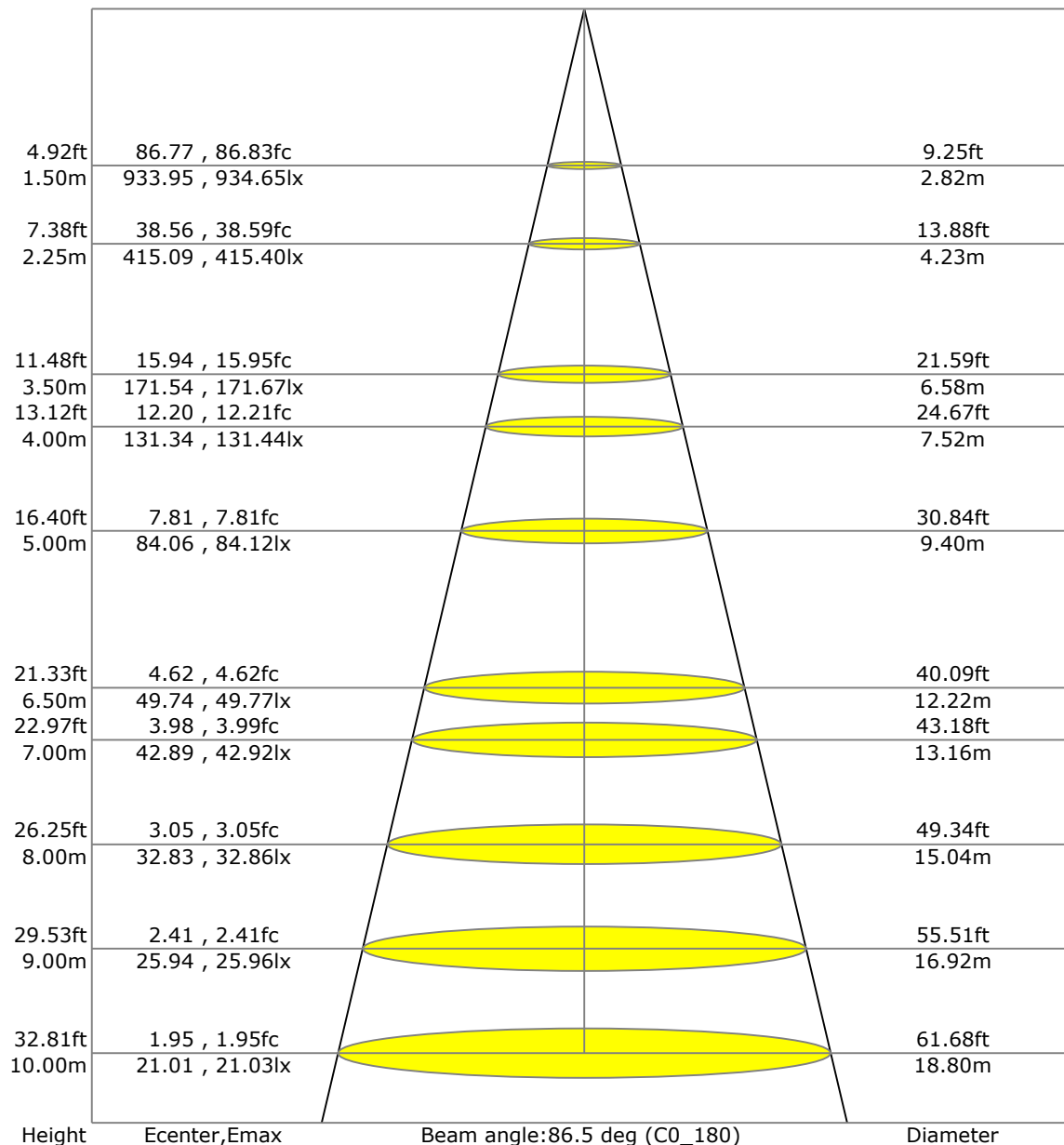
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.81 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G 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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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	16.31	16.38	16.51	16.57	16.81	16.54	16.60	16.74	16.79	17.03
3H	16.32	16.39	16.53	16.58	16.83	16.53	16.60	16.74	16.79	17.04
4H	16.30	16.36	16.51	16.56	16.81	16.51	16.57	16.72	16.77	17.02
6H	16.28	16.34	16.49	16.54	16.79	16.48	16.54	16.70	16.75	17.00
8H	16.26	16.32	16.48	16.52	16.78	16.47	16.53	16.69	16.73	16.99
12H	16.25	16.31	16.47	16.51	16.77	16.46	16.52	16.68	16.72	16.98
4H 2H	16.80	16.87	17.02	17.06	17.31	17.21	17.27	17.42	17.47	17.71
3H	16.81	16.87	17.03	17.07	17.33	17.20	17.26	17.42	17.46	17.72
4H	16.78	16.84	17.01	17.05	17.31	17.17	17.23	17.40	17.44	17.70
6H	16.75	16.80	16.99	17.02	17.29	17.14	17.19	17.38	17.41	17.68
8H	16.73	16.78	16.98	17.01	17.28	17.12	17.17	17.36	17.40	17.66
12H	16.72	16.76	16.96	17.00	17.26	17.10	17.15	17.35	17.38	17.65
8H 4H	16.77	16.83	16.98	17.03	17.28	17.17	17.23	17.39	17.44	17.69
6H	16.70	16.74	16.95	16.98	17.25	17.09	17.14	17.34	17.37	17.65
8H	16.68	16.72	16.94	16.97	17.24	17.07	17.11	17.33	17.36	17.63
12H	16.66	16.70	16.93	16.95	17.23	17.05	17.09	17.32	17.34	17.62
12H 4H	16.72	16.76	16.96	17.00	17.27	17.11	17.16	17.36	17.39	17.66
6H	16.68	16.72	16.94	16.97	17.24	17.07	17.11	17.33	17.36	17.64

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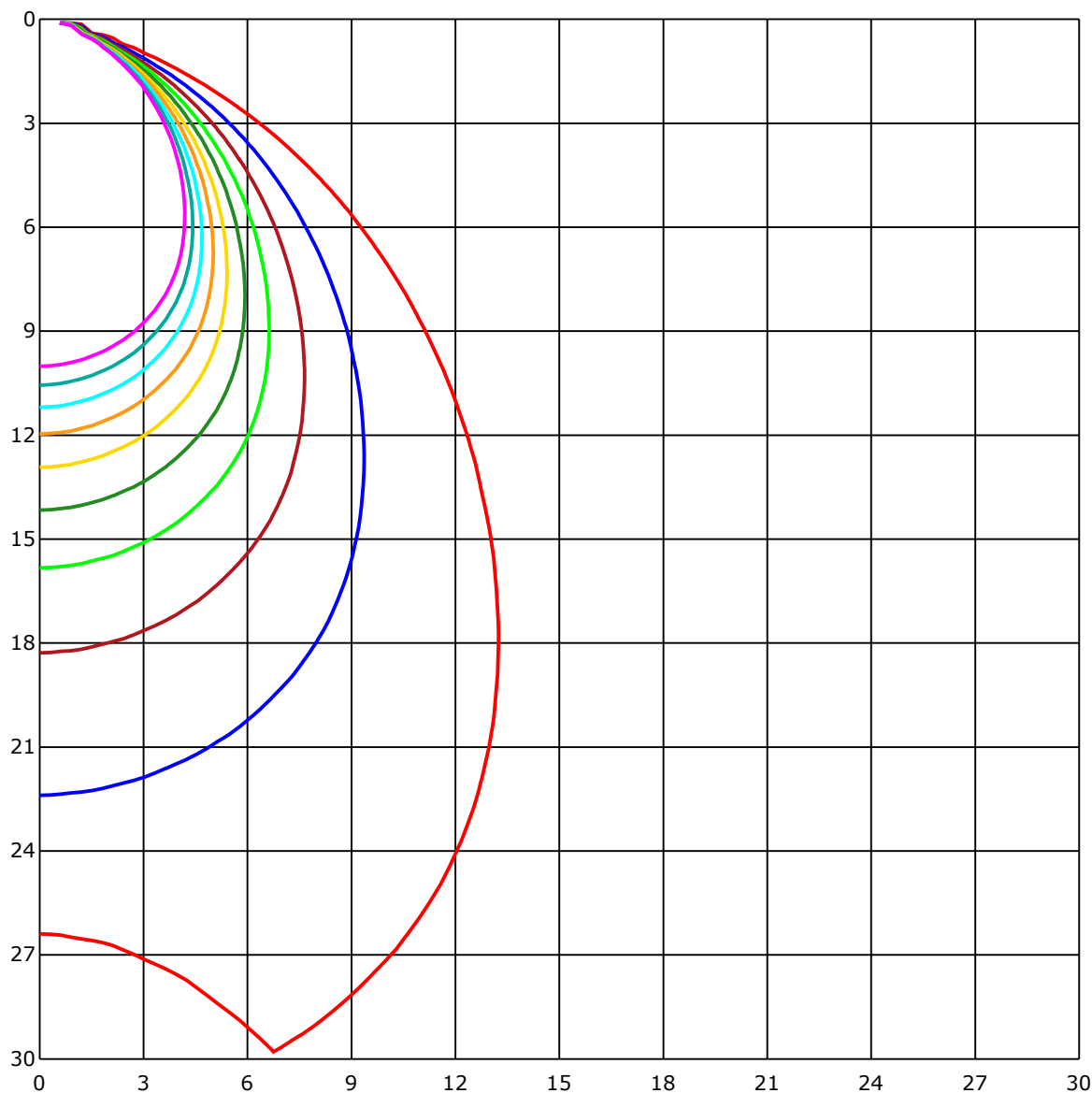
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Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

20.964

18.867

16.771

14.674

12.578

10.482

8.385

6.289

4.193

2.096

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	2101.39	2094.25	2098.24	2098.89	2101.39	2094.25	2098.24	2098.89	2101.39	
G1	2101.12	2093.19	2095.78	2102.97	2100.75	2092.81	2100.14	2101.39	2101.12	
G2	2095.46	2088.13	2096.66	2096.8	2100.33	2094.86	2091.61	2096.94	2095.46	
G3	2094.72	2080.66	2096.71	2098.98	2101.86	2095.97	2088.36	2100.19	2094.72	
G4	2091.33	2076.68	2092.68	2094.11	2096.57	2094.48	2088.46	2093.79	2091.33	
G5	2082.66	2068.61	2087.76	2091.1	2099.08	2089.1	2078.99	2087.81	2082.66	
G6	2074.31	2062.81	2086.37	2081.22	2090.22	2089.99	2074.17	2080.76	2074.31	
G7	2069.21	2054.51	2078.02	2075.01	2085.9	2082.7	2065.5	2077.19	2069.21	
G8	2062.07	2046.81	2076.17	2070.6	2079.41	2081.59	2059.05	2069.53	2062.07	
G9	2049.78	2035.17	2066.19	2060.82	2074.64	2076.58	2050.24	2058.22	2049.78	
G10	2037.77	2022.32	2056.69	2051.63	2060.3	2066.47	2041.8	2049.04	2037.77	
G11	2029.05	2010.45	2050.66	2043.01	2055.3	2053.72	2027.98	2041.66	2029.05	
G12	2016.67	2001.78	2042.08	2032.11	2043.38	2047.23	2016.16	2029.0	2016.67	
G13	2003.26	1985.87	2028.44	2019.91	2029.14	2035.82	2005.95	2015.6	2003.26	
G14	1987.31	1969.22	2014.95	2005.49	2019.54	2024.83	1990.93	2002.38	1987.31	
G15	1974.65	1951.41	2001.92	1993.01	2006.23	2012.91	1974.56	1989.77	1974.65	
G16	1956.28	1936.34	1987.96	1976.32	1989.44	2002.8	1961.2	1976.18	1956.28	
G17	1937.22	1915.8	1974.05	1959.76	1977.34	1987.22	1943.02	1961.34	1937.22	
G18	1916.68	1896.5	1962.82	1940.65	1959.39	1970.66	1923.17	1943.95	1916.68	
G19	1895.44	1872.06	1937.59	1924.79	1943.02	1952.67	1903.0	1923.91	1895.44	
G20	1873.87	1850.41	1922.38	1906.43	1921.83	1937.55	1884.91	1901.1	1873.87	
G21	1853.98	1824.3	1897.62	1885.05	1903.65	1915.89	1861.54	1884.08	1853.98	
G22	1826.57	1800.69	1876.89	1859.4	1881.11	1895.72	1836.4	1857.83	1826.57	
G23	1800.37	1773.28	1852.91	1835.61	1861.12	1875.36	1811.13	1833.71	1800.37	
G24	1773.93	1743.7	1827.59	1812.24	1834.69	1853.51	1786.92	1808.07	1773.93	
G25	1745.36	1709.75	1801.11	1781.72	1809.27	1826.62	1759.28	1784.78	1745.36	
G26	1711.93	1679.05	1772.54	1751.25	1782.09	1801.85	1726.54	1754.83	1711.93	
G27	1678.72	1644.5	1741.47	1721.71	1756.96	1775.28	1693.1	1725.42	1678.72	
G28	1643.24	1605.54	1711.14	1690.78	1723.2	1744.81	1663.46	1690.27	1643.24	
G29	1609.11	1570.62	1677.93	1652.89	1691.43	1712.39	1623.21	1657.16	1609.11	
G30	1567.79	1531.01	1641.44	1617.04	1657.85	1680.39	1585.09	1618.57	1567.79	
G31	1528.09	1489.18	1606.24	1578.41	1620.94	1645.29	1546.32	1582.72	1528.09	
G32	1488.35	1447.72	1565.7	1536.49	1582.03	1606.79	1506.34	1542.61	1488.35	
G33	1446.75	1404.41	1530.6	1498.69	1544.42	1568.9	1466.0	1502.82	1446.75	
G34	1401.35	1360.68	1486.68	1454.49	1503.19	1529.76	1421.06	1458.58	1401.35	
G35	1358.73	1319.54	1444.8	1414.56	1463.86	1488.67	1377.6	1416.28	1358.73	
G36	1314.39	1274.97	1401.49	1368.23	1420.69	1448.88	1334.57	1372.55	1314.39	

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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	1270.84	1230.45	1360.3	1327.1	1376.81	1405.57	1289.02	1332.8	1270.84	
G38	1224.65	1186.81	1317.41	1277.52	1334.43	1363.78	1246.31	1285.82	1224.65	
G39	1180.83	1142.61	1271.73	1232.72	1291.99	1319.63	1199.8	1241.81	1180.83	
G40	1137.98	1100.69	1229.43	1188.34	1249.93	1277.01	1157.41	1196.09	1137.98	
G41	1095.17	1055.38	1184.21	1141.5	1206.15	1231.24	1111.91	1153.7	1095.17	
G42	1049.31	1013.41	1139.88	1097.91	1159.5	1189.08	1068.13	1108.9	1049.31	
G43	1004.41	970.65	1096.89	1055.06	1116.92	1148.23	1023.24	1066.19	1004.41	
G44	964.62	930.44	1054.64	1011.83	1072.12	1099.11	981.69	1021.06	964.62	
G45	924.0	888.66	1009.38	968.61	1029.74	1057.28	939.26	980.34	924.0	
G46	879.85	851.14	967.64	927.75	988.0	1016.84	897.61	937.54	879.85	
G47	840.47	809.49	927.34	886.39	948.11	972.14	857.31	896.64	840.47	
G48	800.78	771.1	884.62	845.3	905.49	931.79	816.36	855.96	800.78	
G49	762.79	730.93	844.14	805.88	863.99	891.12	776.38	816.96	762.79	
G50	721.94	693.51	806.48	766.13	824.98	850.07	739.24	778.28	721.94	
G51	684.88	656.22	766.41	727.18	785.61	810.47	699.4	738.45	684.88	
G52	646.99	620.33	728.43	690.08	747.03	772.16	663.32	701.35	646.99	
G53	612.26	584.76	689.98	651.91	708.58	732.42	625.57	664.2	612.26	
G54	575.71	550.62	653.25	616.11	669.81	695.13	590.83	627.47	575.71	
G55	540.84	516.17	616.71	580.54	634.56	658.22	552.99	591.9	540.84	
G56	506.38	483.61	580.86	545.75	598.11	620.88	519.18	555.91	506.38	
G57	474.29	450.73	546.82	511.25	563.47	585.87	486.07	522.29	474.29	
G58	441.64	419.52	514.64	480.04	529.48	550.67	453.28	489.22	441.64	
G59	410.06	388.12	480.09	445.67	495.53	516.03	420.68	456.02	410.06	
G60	378.48	357.98	447.25	414.74	461.44	483.29	390.02	423.04	378.48	
G61	348.28	327.88	415.99	383.11	430.0	450.03	358.81	392.3	348.28	
G62	317.4	298.57	385.52	351.81	398.19	418.08	329.41	360.9	317.4	
G63	289.39	269.54	355.1	322.17	367.81	386.96	300.38	331.45	289.39	
G64	260.17	241.48	325.24	292.82	337.06	356.12	272.37	301.49	260.17	
G65	232.72	214.49	295.93	263.46	307.33	325.61	244.12	272.83	232.72	
G66	205.17	188.33	267.4	235.92	276.73	296.85	217.55	244.49	205.17	
G67	178.46	162.32	238.47	209.76	249.09	268.05	189.35	217.23	178.46	
G68	153.55	137.83	211.1	182.91	220.94	239.9	163.94	190.33	153.55	
G69	130.83	115.11	184.21	158.7	194.73	212.4	139.92	164.96	130.83	
G70	107.82	93.4	159.44	133.93	169.18	186.48	116.4	140.24	107.82	
G71	86.72	72.62	133.93	111.12	144.28	160.65	94.1	117.05	86.72	
G72	66.6	54.07	110.56	89.46	120.49	135.84	73.69	94.28	66.6	
G73	48.32	37.52	89.0	69.84	98.18	112.88	55.0	73.97	48.32	

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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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G Range: 0 - 90 Deg
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