

Report No.:

Test Time: 2024/9/6 11:37:55

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT200-41.2W
Lamp Type:
Luminous Width: 190 mm
Luminous Length: 190 mm
Luminous Height: 70 mm

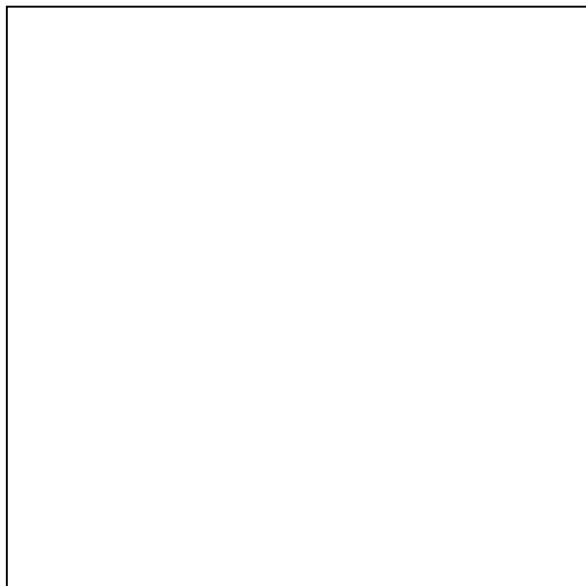
Voltage(V): 219.80 V
Current(A): 0.1900 A
Power(W): 41.25 W
Power Factor: 0.9840
Lamp Luminous Flux: 4537.02

Photometric Results

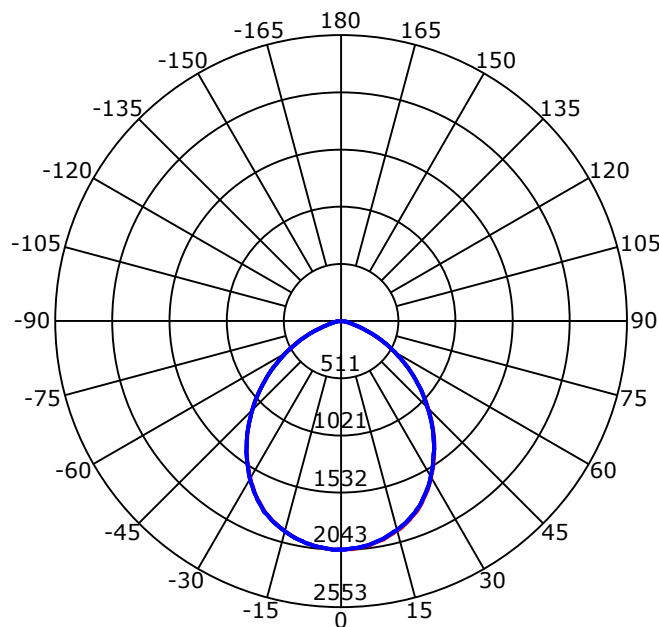
CIE Class: Direct
Luminaire Luminous Flux: 4537.019 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 109.99 lm/W
Beam Angle(50%) C0-180,C90-270: 94.9,94.8
Field Angle(10%) C0-180,C90-270: 142.1,142.2
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 2042.79 cd
Max.Intensity Angle: C=270 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2040.99 cd
Effective Luminous Flux: 4390.38 lm
ERP(ϕ use)(120deg): 3971.57 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 94.9 deg,94.8 deg

C0-180 — C90-270 —

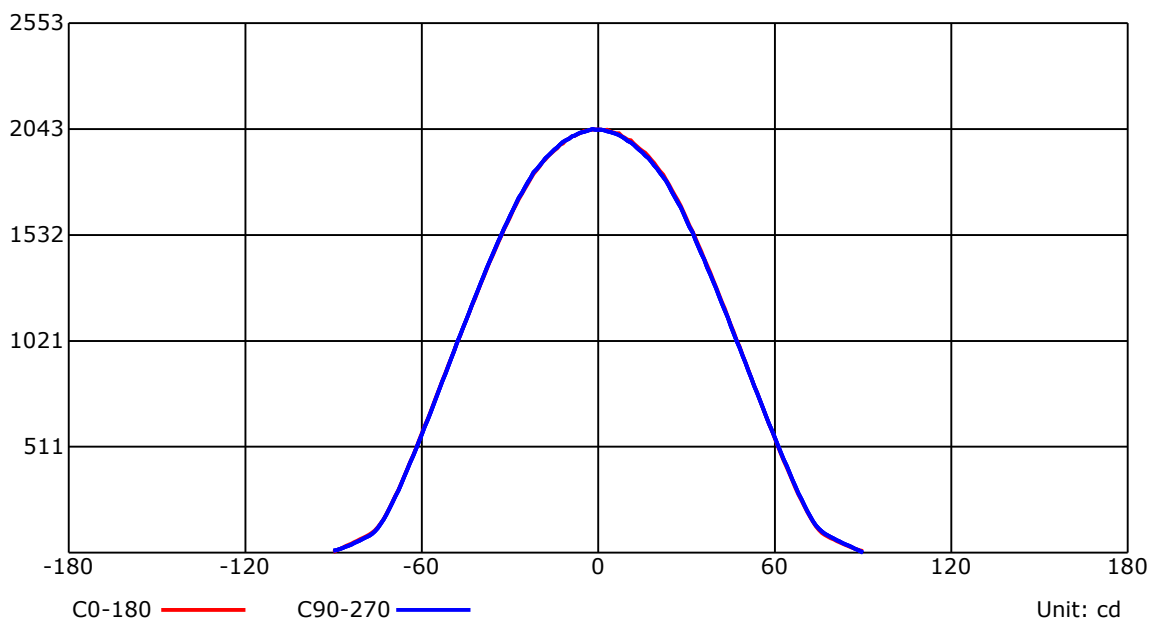
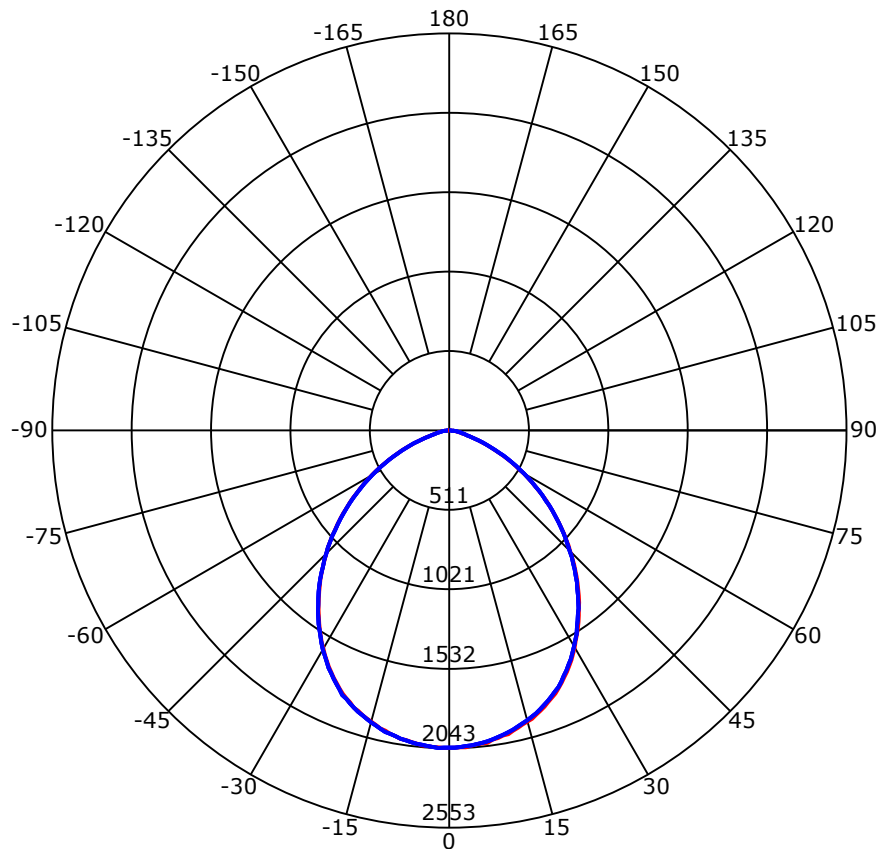
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/6 11:37:55

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

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Luminous Intensity Distribution Curve



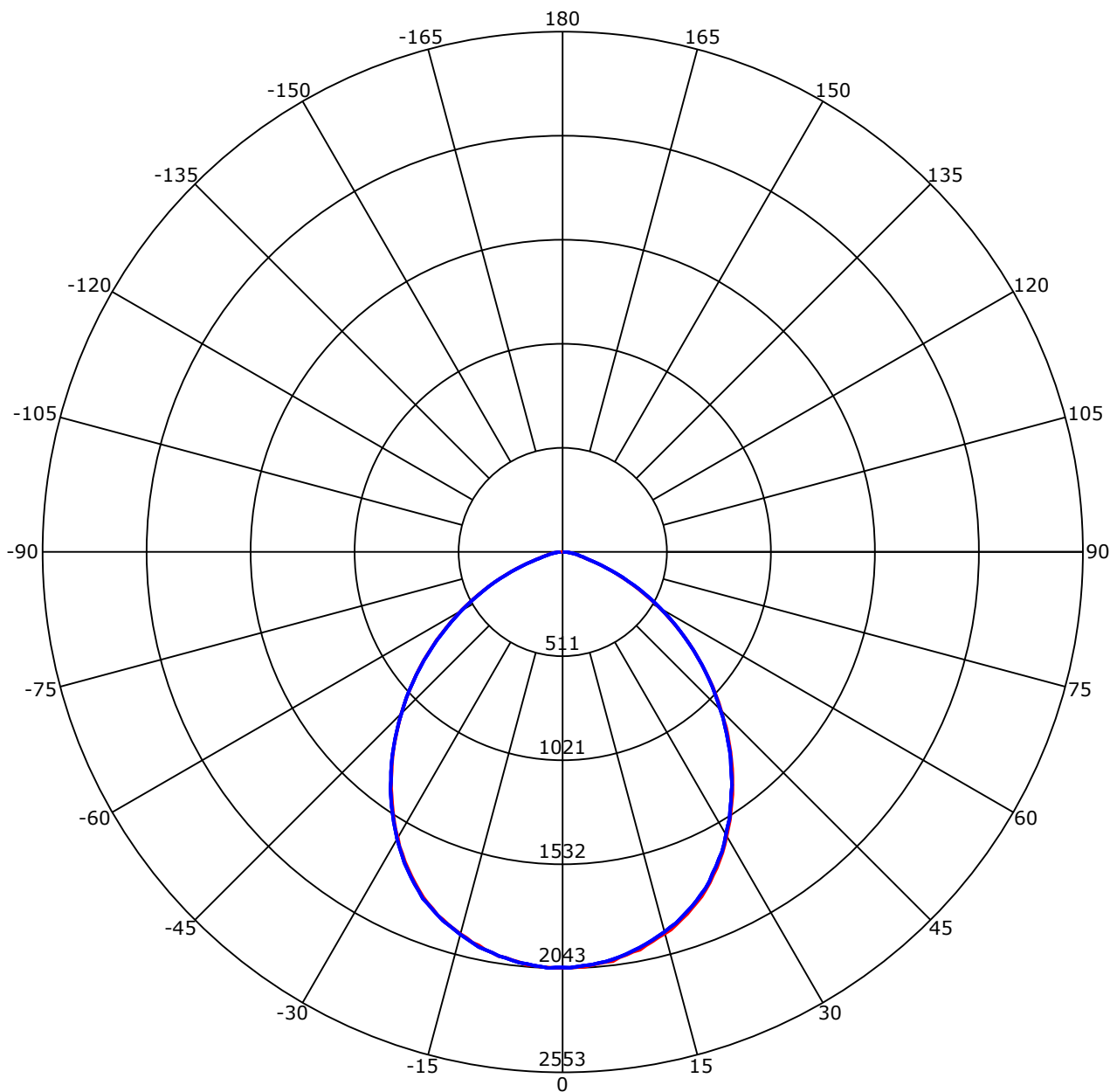
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

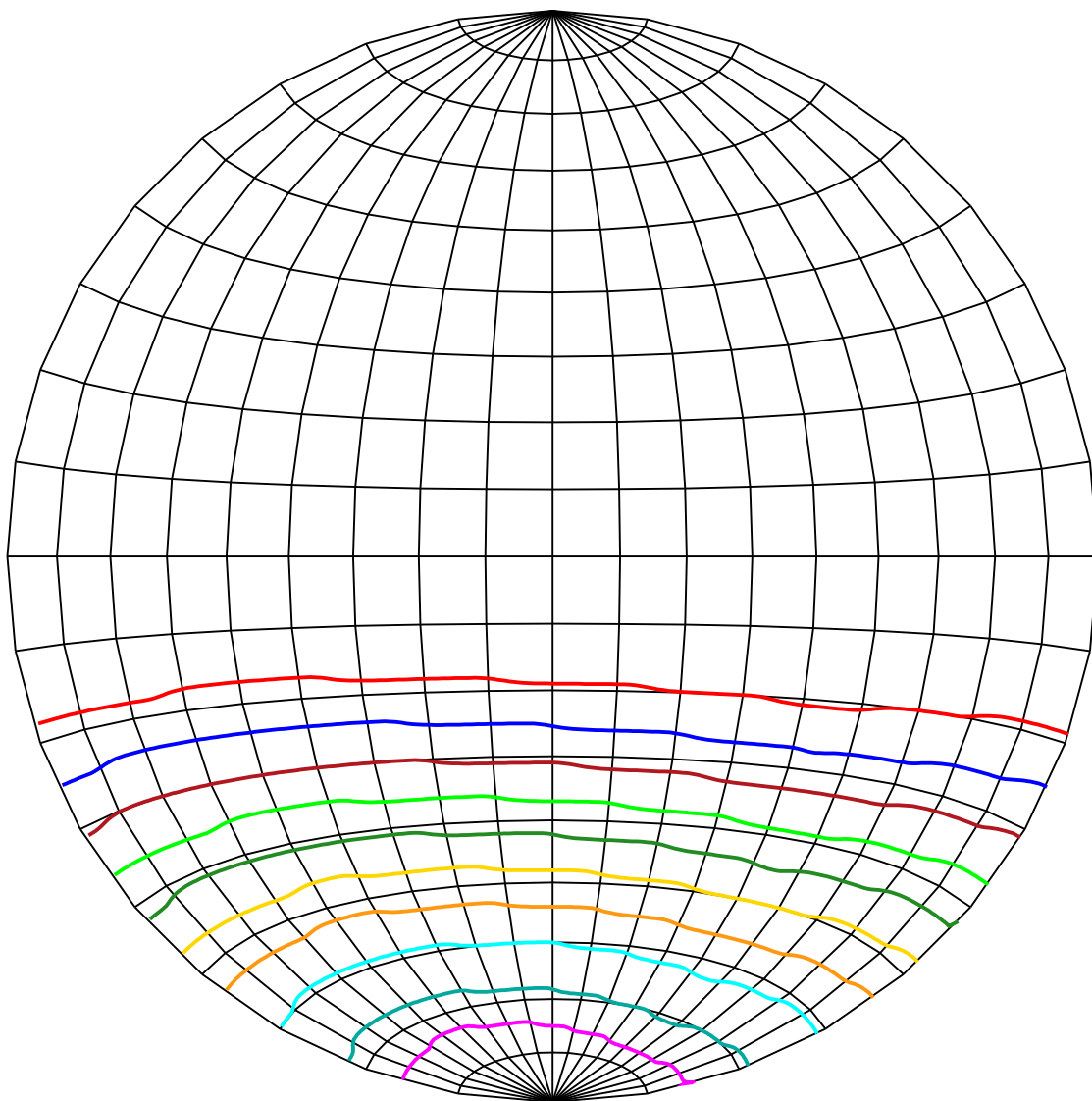
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2042.788 cd

1940.649(95%Imax)	1021.394(50%Imax)
1838.51(90%Imax)	817.115(40%Imax)
1634.231(80%Imax)	612.837(30%Imax)
1429.952(70%Imax)	408.558(20%Imax)
1225.673(60%Imax)	204.279(10%Imax)

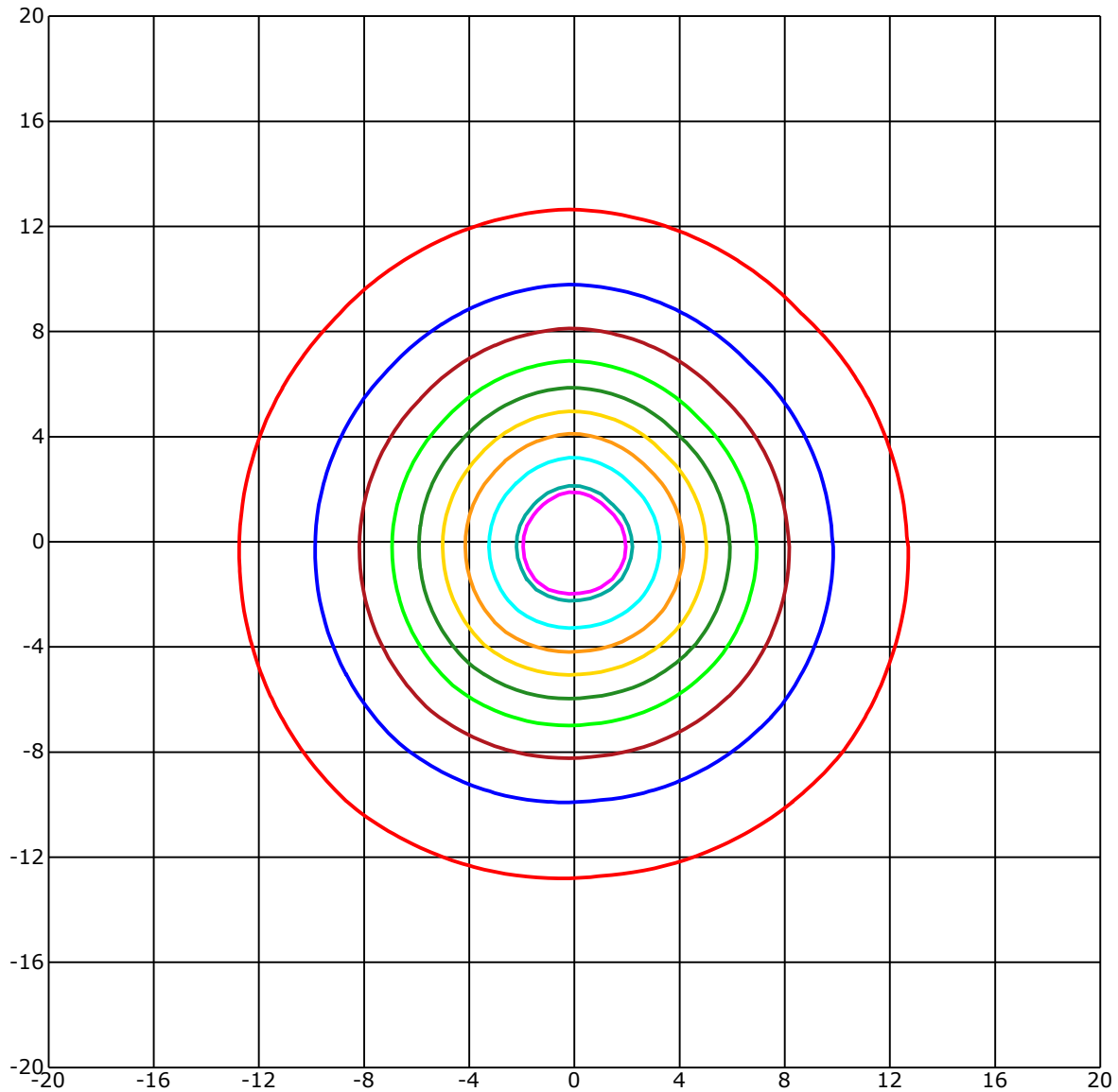
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ISOLX DIAGRAM



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

18.779(92%Emax)	10.206(50%Emax)
18.371(90%Emax)	8.165(40%Emax)
16.329(80%Emax)	6.124(30%Emax)
14.288(70%Emax)	4.082(20%Emax)
12.247(60%Emax)	2.041(10%Emax)

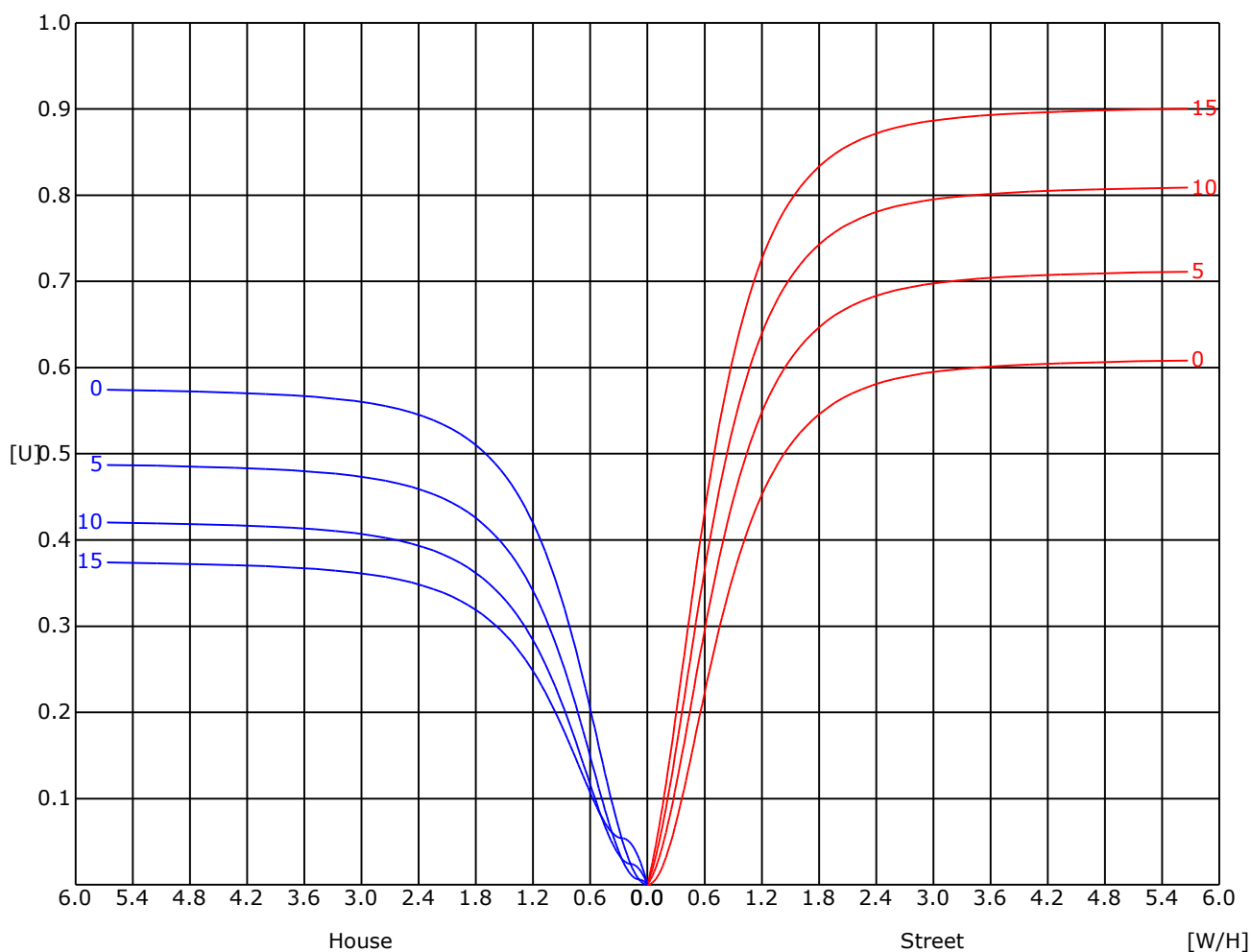
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UTILIZATION FACTOR DIAGRAM (ROAD)



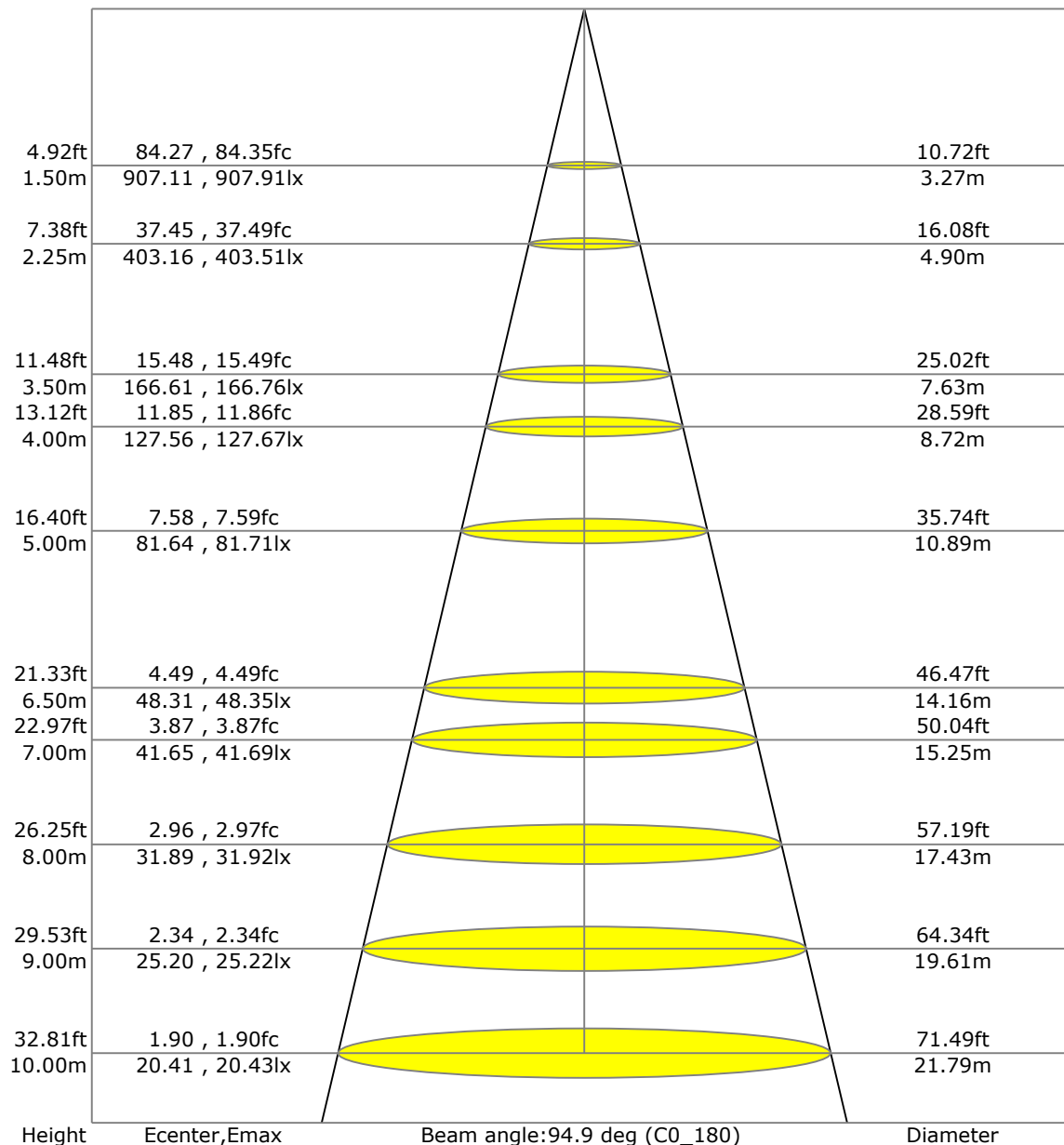
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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 Operators: QC01
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 G Interval: 1.0 Deg
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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	15.90	15.97	16.10	16.15	16.40	15.90	15.97	16.10	16.15	16.40
3H	15.93	15.99	16.13	16.19	16.43	15.92	15.99	16.13	16.18	16.43
4H	15.91	15.97	16.12	16.17	16.42	15.90	15.97	16.12	16.17	16.42
6H	15.88	15.95	16.10	16.15	16.40	15.88	15.94	16.10	16.14	16.40
8H	15.87	15.93	16.09	16.13	16.39	15.86	15.93	16.08	16.13	16.38
12H	15.85	15.91	16.07	16.12	16.38	15.85	15.91	16.07	16.12	16.37
4H 2H	16.85	16.92	17.06	17.11	17.36	16.87	16.94	17.08	17.14	17.38
3H	16.91	16.97	17.13	17.18	17.43	16.93	16.99	17.15	17.20	17.46
4H	16.90	16.96	17.13	17.17	17.43	16.92	16.98	17.15	17.19	17.45
6H	16.87	16.93	17.11	17.15	17.41	16.89	16.95	17.13	17.17	17.44
8H	16.86	16.91	17.10	17.14	17.40	16.88	16.93	17.12	17.16	17.42
12H	16.84	16.89	17.09	17.12	17.39	16.86	16.91	17.11	17.14	17.41
8H 4H	16.92	16.99	17.14	17.19	17.44	16.96	17.03	17.18	17.23	17.48
6H	17.00	17.05	17.26	17.29	17.56	17.04	17.09	17.30	17.33	17.60
8H	16.99	17.03	17.25	17.28	17.55	17.03	17.07	17.29	17.31	17.59
12H	16.97	17.01	17.24	17.26	17.54	17.01	17.05	17.28	17.30	17.58
12H 4H	17.04	17.09	17.29	17.32	17.59	17.09	17.14	17.33	17.37	17.64
6H	17.03	17.07	17.29	17.32	17.60	17.08	17.12	17.34	17.37	17.64

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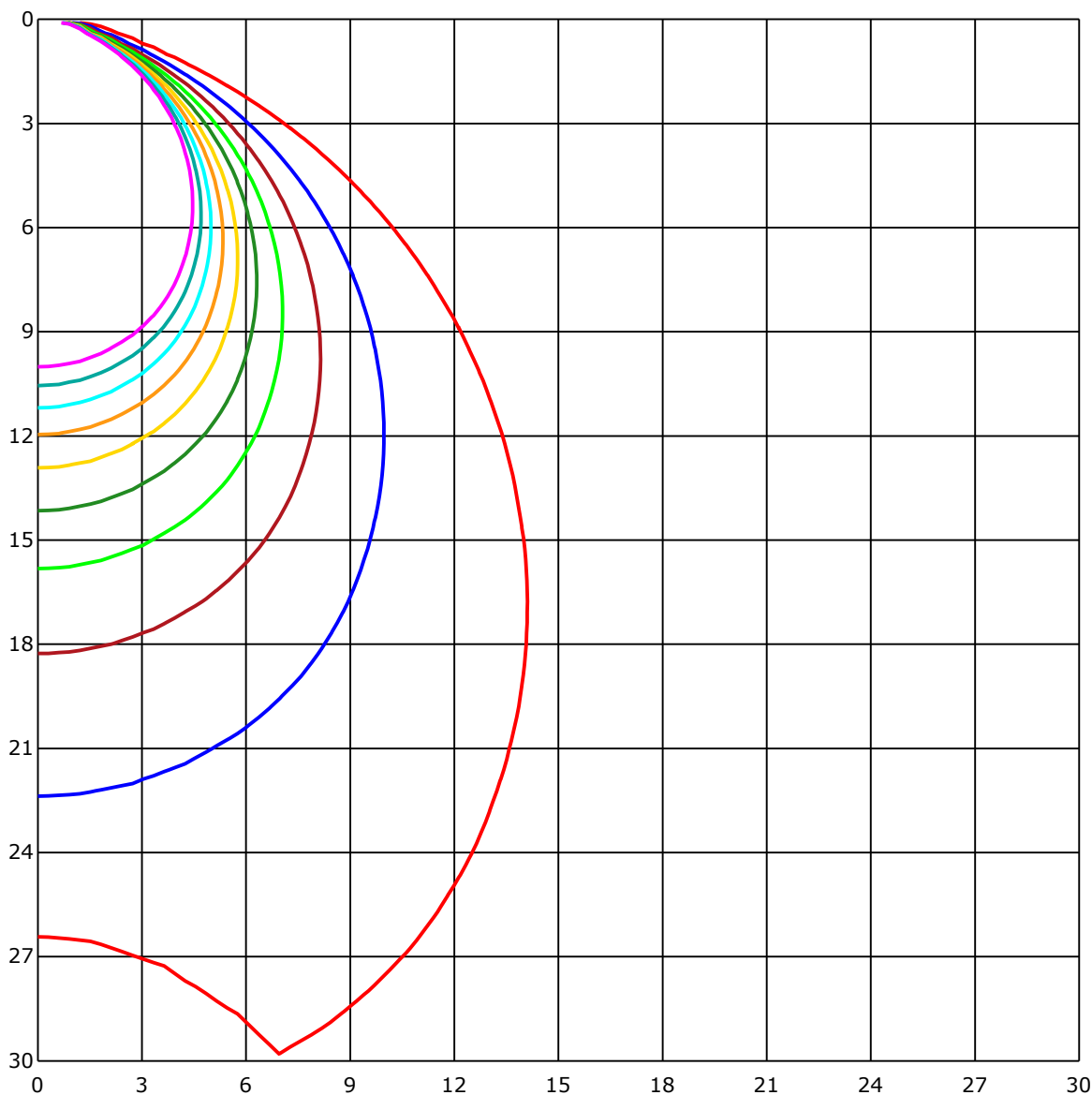
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

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G Interval: 1.0 Deg
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

20.391
18.352
16.313
14.274
12.234

10.195
8.156
6.117
4.078
2.039

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2040.99	2036.85	2039.23	2040.72	2040.99	2036.85	2039.23	2040.72	2040.99	
G1	2040.45	2030.99	2039.73	2035.9	2042.11	2040.49	2039.37	2041.66	2040.45	
G2	2038.78	2028.56	2036.08	2035.9	2039.28	2038.65	2042.79	2041.53	2038.78	
G3	2039.14	2022.35	2031.67	2032.12	2038.51	2037.21	2037.88	2037.57	2039.14	
G4	2032.66	2019.6	2029.46	2026.0	2033.87	2040.72	2033.69	2037.25	2032.66	
G5	2026.9	2010.15	2024.69	2018.93	2033.69	2035.99	2028.52	2035.54	2026.9	
G6	2023.11	2002.58	2020.32	2012.31	2024.24	2033.11	2026.54	2028.88	2023.11	
G7	2022.84	1995.69	2013.79	2007.63	2018.12	2029.64	2019.47	2027.08	2022.84	
G8	2008.17	1986.64	2006.36	1999.3	2009.88	2027.66	2011.27	2018.57	2008.17	
G9	2001.91	1975.16	1996.73	1987.41	2007.81	2019.42	2006.99	2013.21	2001.91	
G10	1991.87	1965.71	1986.28	1977.64	1996.28	2011.77	1995.96	2005.87	1991.87	
G11	1989.12	1954.27	1977.73	1968.36	1988.26	2005.91	1988.13	1997.58	1989.12	
G12	1973.14	1945.9	1966.83	1955.26	1973.77	2001.77	1981.11	1988.31	1973.14	
G13	1961.7	1929.78	1953.96	1944.05	1967.15	1988.62	1968.77	1979.94	1961.7	
G14	1948.06	1912.89	1941.57	1930.95	1950.85	1977.37	1955.58	1967.82	1948.06	
G15	1938.2	1899.25	1929.96	1920.82	1939.5	1967.96	1943.51	1956.16	1938.2	
G16	1928.43	1884.93	1915.01	1901.73	1926.13	1956.48	1928.7	1945.36	1928.43	
G17	1911.09	1868.28	1903.03	1887.19	1913.12	1942.93	1914.61	1929.37	1911.09	
G18	1894.48	1849.23	1885.52	1868.95	1896.1	1931.13	1902.27	1915.1	1894.48	
G19	1878.86	1831.9	1867.6	1852.97	1884.26	1915.6	1884.62	1901.41	1878.86	
G20	1858.73	1811.41	1850.81	1832.8	1862.15	1904.56	1867.65	1885.61	1858.73	
G21	1840.95	1786.15	1831.94	1812.04	1845.81	1886.15	1849.28	1870.3	1840.95	
G22	1823.34	1762.24	1810.87	1790.92	1826.99	1868.46	1835.18	1850.18	1823.34	
G23	1798.49	1738.43	1793.45	1768.37	1803.85	1853.64	1808.57	1835.41	1798.49	
G24	1776.43	1714.38	1768.59	1740.68	1779.58	1835.45	1785.93	1808.48	1776.43	
G25	1749.32	1683.05	1739.82	1713.03	1756.44	1811.73	1761.79	1787.14	1749.32	
G26	1725.32	1655.9	1716.09	1689.3	1730.91	1787.86	1736.08	1764.54	1725.32	
G27	1698.8	1626.81	1688.4	1660.04	1704.84	1768.05	1712.54	1740.9	1698.8	
G28	1671.93	1597.91	1664.63	1628.48	1676.79	1742.75	1682.51	1710.96	1671.93	
G29	1641.53	1564.63	1633.47	1600.74	1650.94	1714.34	1654.01	1685.03	1641.53	
G30	1609.93	1534.38	1601.82	1571.03	1618.71	1685.88	1626.27	1657.02	1609.93	
G31	1578.73	1501.69	1570.94	1539.06	1590.75	1657.52	1595.47	1630.19	1578.73	
G32	1549.14	1471.57	1543.79	1507.59	1559.5	1632.93	1564.27	1596.92	1549.14	
G33	1516.01	1436.67	1507.54	1474.31	1527.53	1600.29	1532.49	1567.33	1516.01	
G34	1484.13	1404.57	1475.26	1441.9	1495.88	1570.08	1501.82	1537.44	1484.13	
G35	1453.02	1370.08	1442.48	1410.11	1463.69	1536.72	1470.08	1504.75	1453.02	
G36	1417.9	1338.52	1414.34	1375.04	1432.04	1504.62	1438.43	1472.15	1417.9	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1386.38	1303.81	1376.52	1339.83	1398.72	1474.4	1402.19	1439.38	1386.38	
G38	1350.95	1267.11	1341.4	1306.37	1363.92	1439.83	1369.81	1407.41	1350.95	
G39	1315.83	1231.95	1308.45	1271.53	1330.33	1406.78	1334.97	1373.82	1315.83	
G40	1281.52	1199.71	1276.12	1236.99	1296.69	1375.4	1300.97	1337.98	1281.52	
G41	1245.95	1161.94	1238.25	1202.19	1261.26	1341.49	1264.82	1305.52	1245.95	
G42	1210.7	1123.94	1203.81	1165.31	1225.29	1305.65	1230.37	1269.5	1210.7	
G43	1175.35	1089.54	1165.94	1128.8	1190.93	1270.58	1191.61	1233.98	1175.35	
G44	1135.73	1055.1	1133.12	1092.24	1154.42	1235.51	1155.9	1197.91	1135.73	
G45	1100.21	1014.98	1094.13	1056.36	1119.84	1198.86	1119.57	1162.39	1100.21	
G46	1065.45	980.31	1058.43	1021.1	1084.99	1163.47	1085.04	1125.06	1065.45	
G47	1026.87	942.71	1021.87	984.23	1047.76	1126.37	1049.69	1090.35	1026.87	
G48	992.65	909.26	986.43	949.87	1011.65	1090.71	1012.64	1054.19	992.65	
G49	953.39	868.97	949.47	911.11	975.22	1055.19	973.47	1017.59	953.39	
G50	916.87	833.58	915.43	875.22	938.75	1017.41	937.18	979.72	916.87	
G51	881.17	798.32	877.83	840.15	905.12	981.71	899.94	943.71	881.17	
G52	842.54	760.77	842.81	802.1	867.84	947.49	864.06	907.33	842.54	
G53	806.7	723.27	804.27	765.41	829.12	908.05	826.15	870.45	806.7	
G54	771.08	687.74	767.98	730.34	791.97	871.85	789.41	833.67	771.08	
G55	732.18	651.63	732.0	693.6	757.17	834.84	752.71	797.74	732.18	
G56	694.5	616.06	696.07	657.85	719.44	797.24	714.76	758.21	694.5	
G57	660.28	581.67	660.05	621.65	683.02	761.04	678.83	722.73	660.28	
G58	622.91	545.78	624.8	587.11	647.04	724.26	643.39	685.22	622.91	
G59	586.84	512.1	588.69	552.4	611.11	687.7	606.56	648.89	586.84	
G60	550.73	476.72	554.07	515.8	575.77	652.67	570.64	612.69	550.73	
G61	515.26	442.23	519.58	481.35	540.06	615.3	535.74	577.12	515.26	
G62	479.73	407.96	485.18	446.68	504.45	579.05	500.8	541.82	479.73	
G63	445.11	374.69	451.59	413.05	470.37	543.13	466.36	506.21	445.11	
G64	411.21	341.96	419.4	379.06	435.92	508.86	432.19	471.99	411.21	
G65	378.2	309.77	385.0	346.33	401.66	474.15	398.96	437.95	378.2	
G66	345.74	279.1	351.37	314.81	367.53	440.07	366.54	404.36	345.74	
G67	312.78	249.34	319.27	283.61	335.92	406.7	332.64	370.01	312.78	
G68	281.36	221.16	287.84	254.03	303.33	373.88	300.54	336.69	281.36	
G69	252.81	193.78	257.54	225.3	273.07	340.02	270.59	305.22	252.81	
G70	224.22	168.48	229.04	198.47	243.85	308.51	241.24	274.38	224.22	
G71	197.21	145.16	201.03	172.71	215.13	278.38	212.74	244.12	197.21	
G72	171.41	124.45	175.73	148.85	188.2	247.54	185.99	215.44	171.41	
G73	148.17	106.8	151.96	127.96	163.08	219.09	160.33	188.79	148.17	

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Humidity: 60
Test Distance: 6.71 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
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