

Report No.:

Test Time: 2024/9/12 8:34:43

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-34.8W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

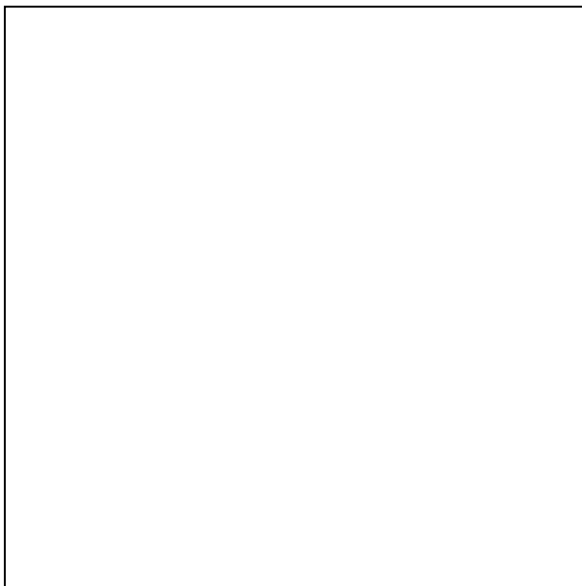
Voltage(V): 219.80 V
Current(A): 0.1630 A
Power(W): 34.81 W
Power Factor: 0.9690
Lamp Luminous Flux: 4091.04

Photometric Results

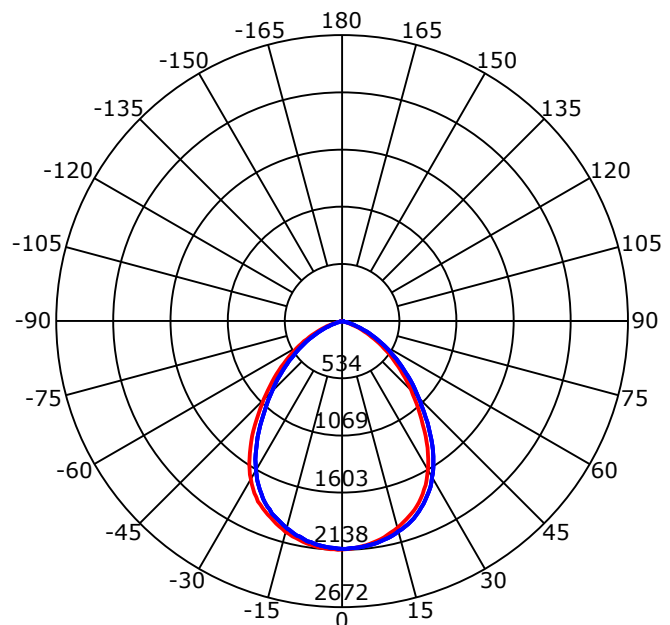
CIE Class: Direct
Luminaire Luminous Flux: 4091.038 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 117.52 lm/W
Beam Angle(50%) C0-180,C90-270: 85.5,85.6
Field Angle(10%) C0-180,C90-270: 133.9,134.0
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 2137.75 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2133.81 cd
Effective Luminous Flux: 3983.38 lm
ERP(ϕ use)(120deg): 3768.11 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 85.5 deg,85.6 deg

C0-180 — C90-270 —

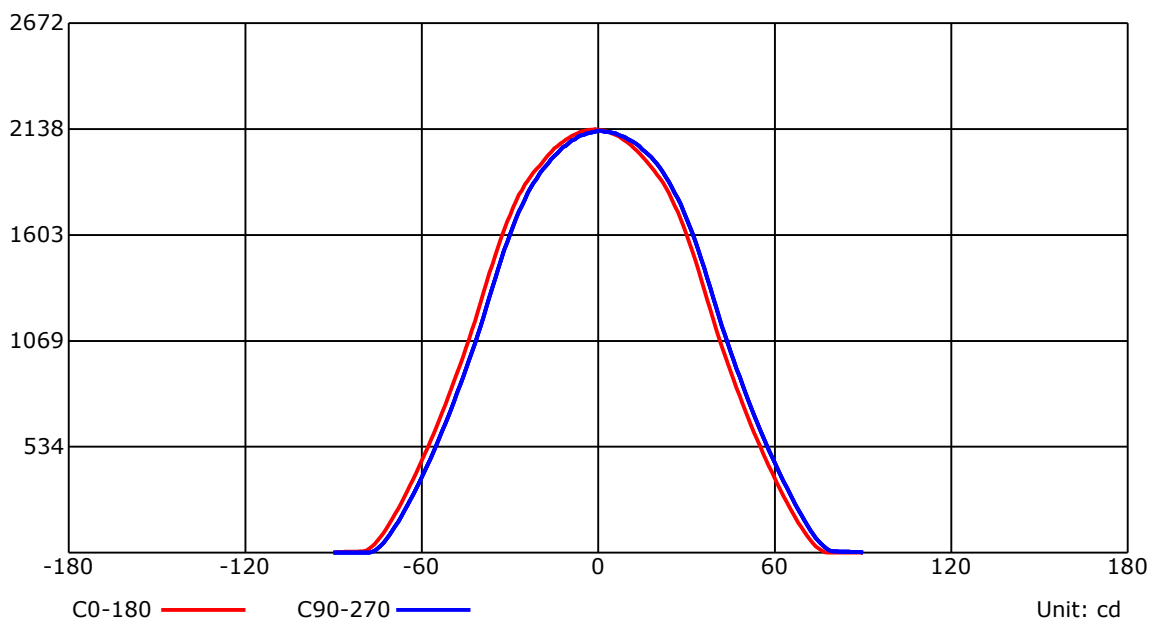
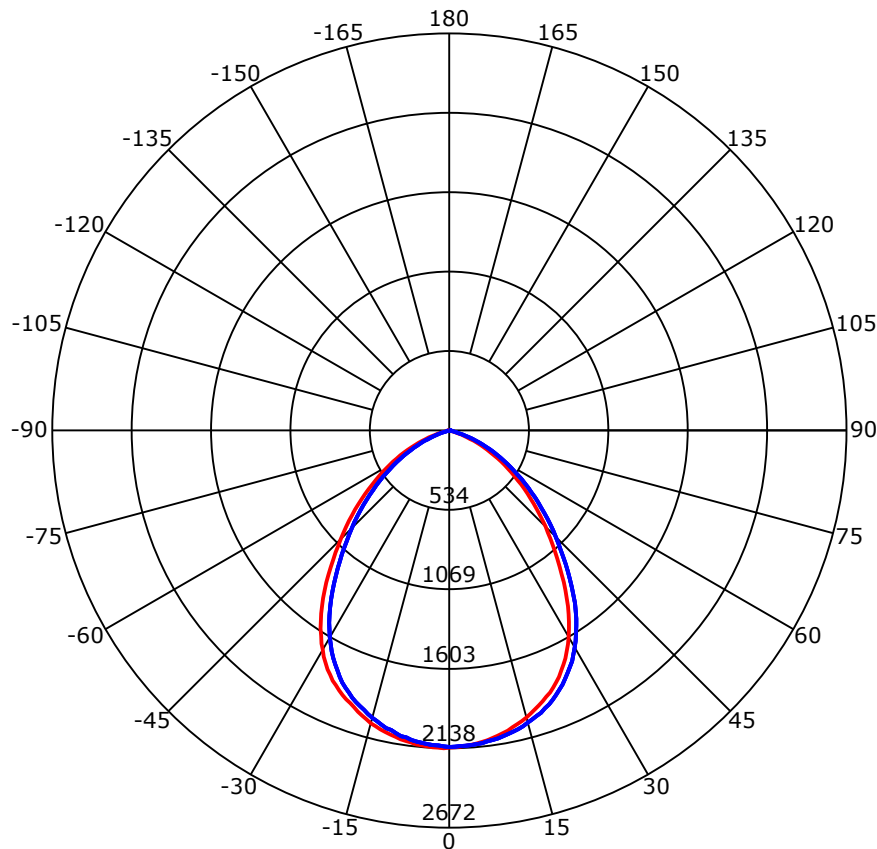
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 8:34:43

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



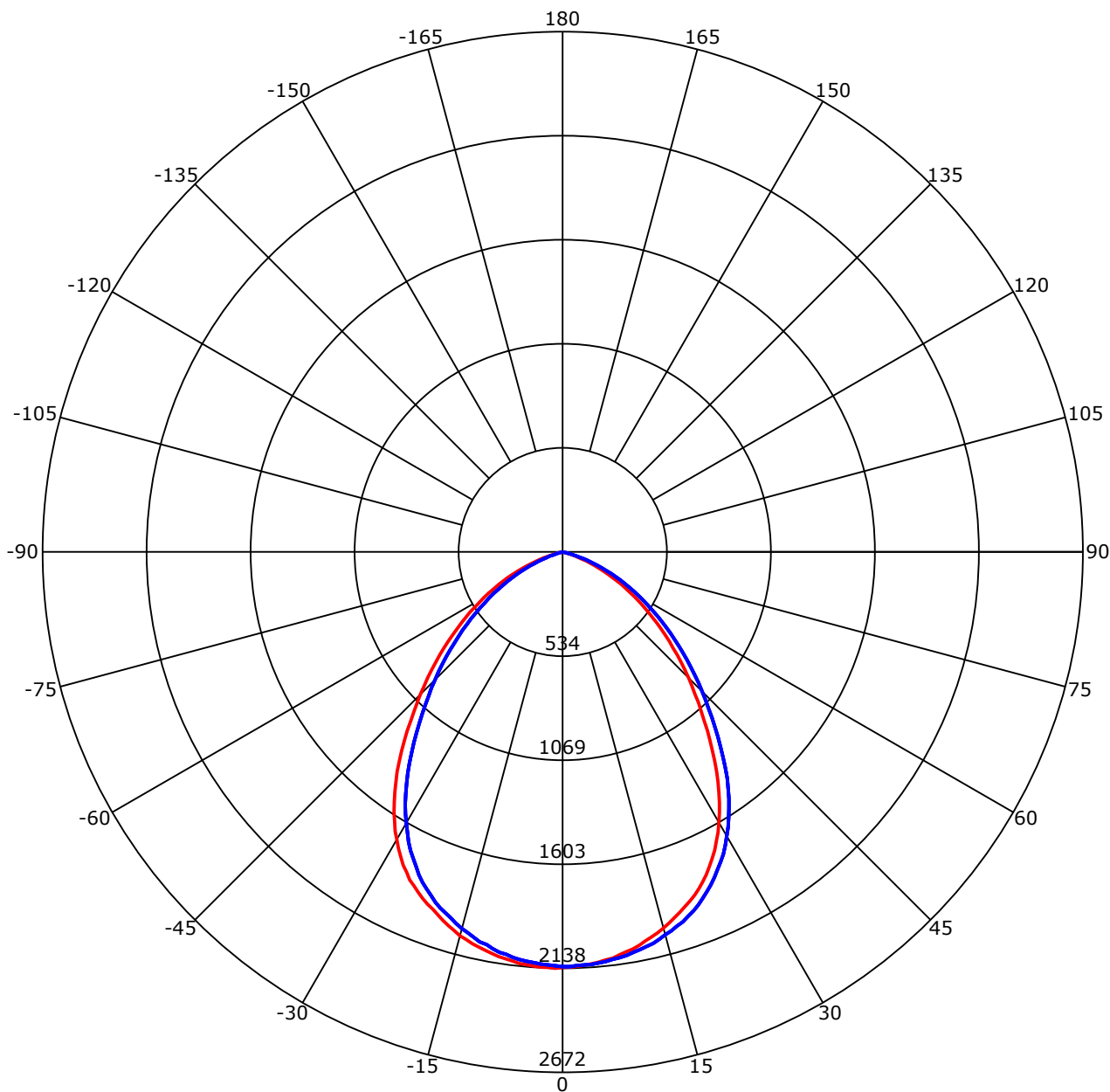
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

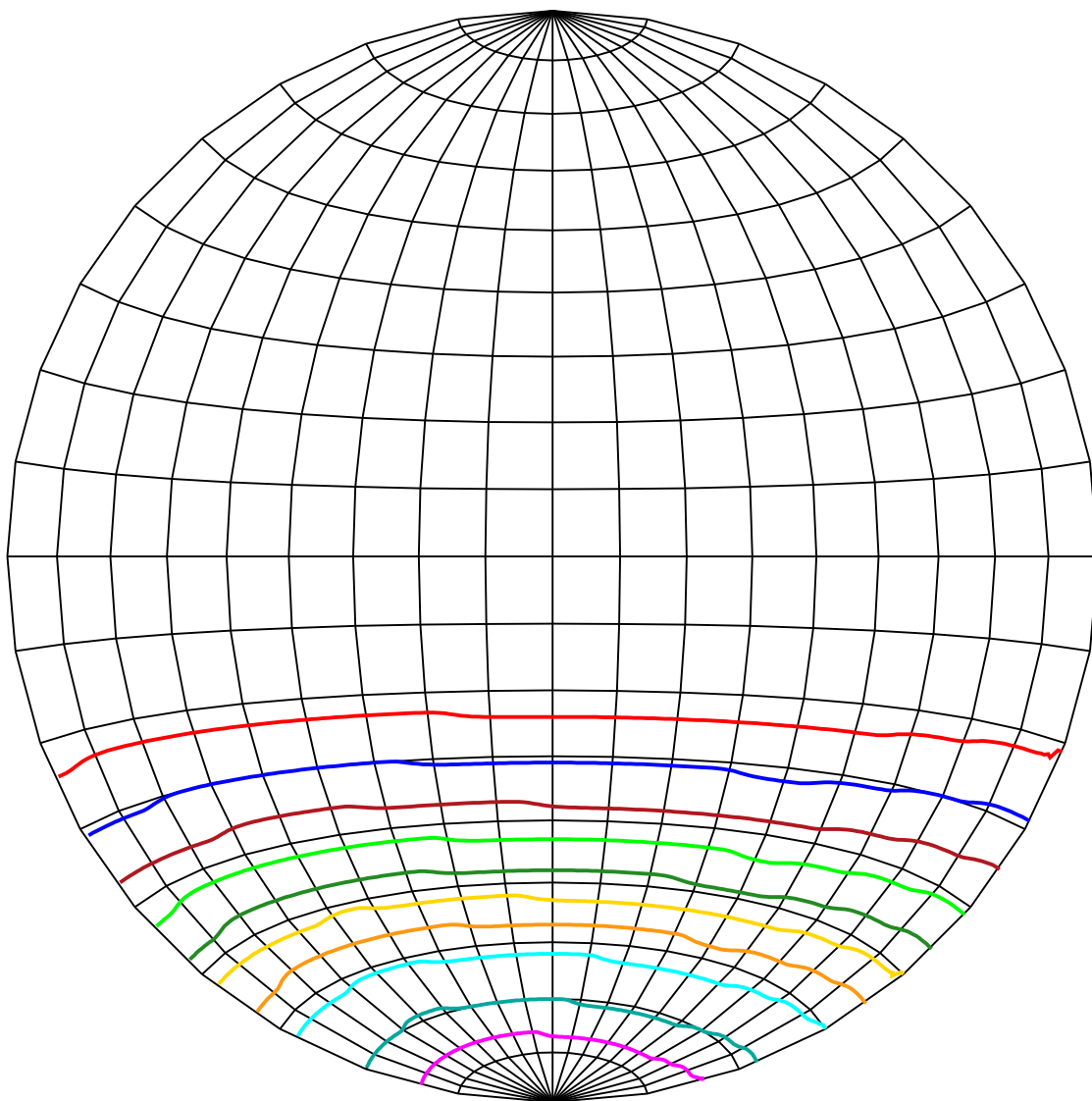
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2137.753 cd

2030.865(95%Imax)	1068.876(50%Imax)
1923.977(90%Imax)	855.101(40%Imax)
1710.202(80%Imax)	641.326(30%Imax)
1496.427(70%Imax)	427.551(20%Imax)
1282.652(60%Imax)	213.775(10%Imax)

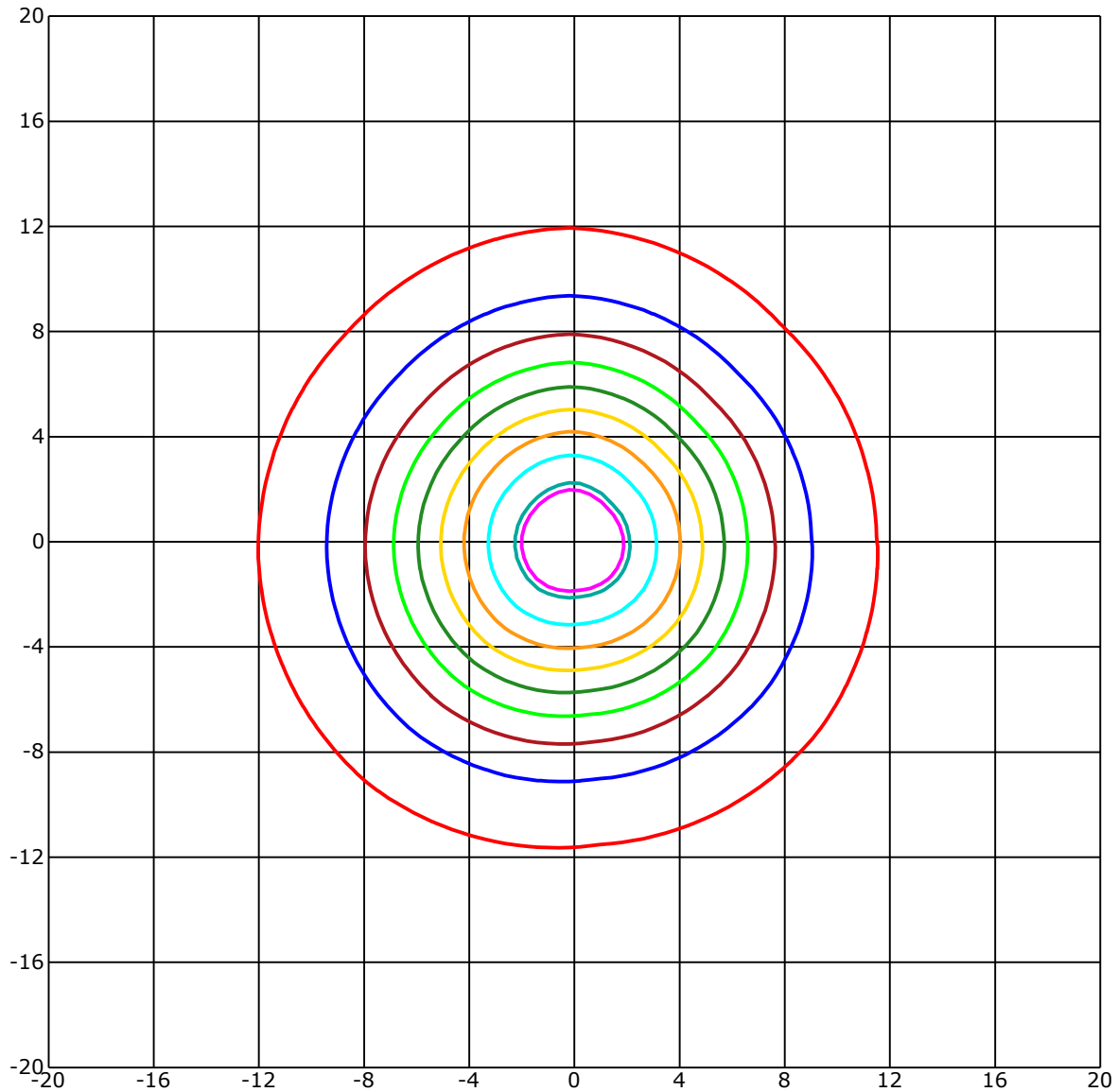
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ISOLX DIAGRAM



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

19.658(92%Emax)	10.684(50%Emax)
19.231(90%Emax)	8.547(40%Emax)
17.094(80%Emax)	6.41(30%Emax)
14.957(70%Emax)	4.274(20%Emax)
12.821(60%Emax)	2.137(10%Emax)

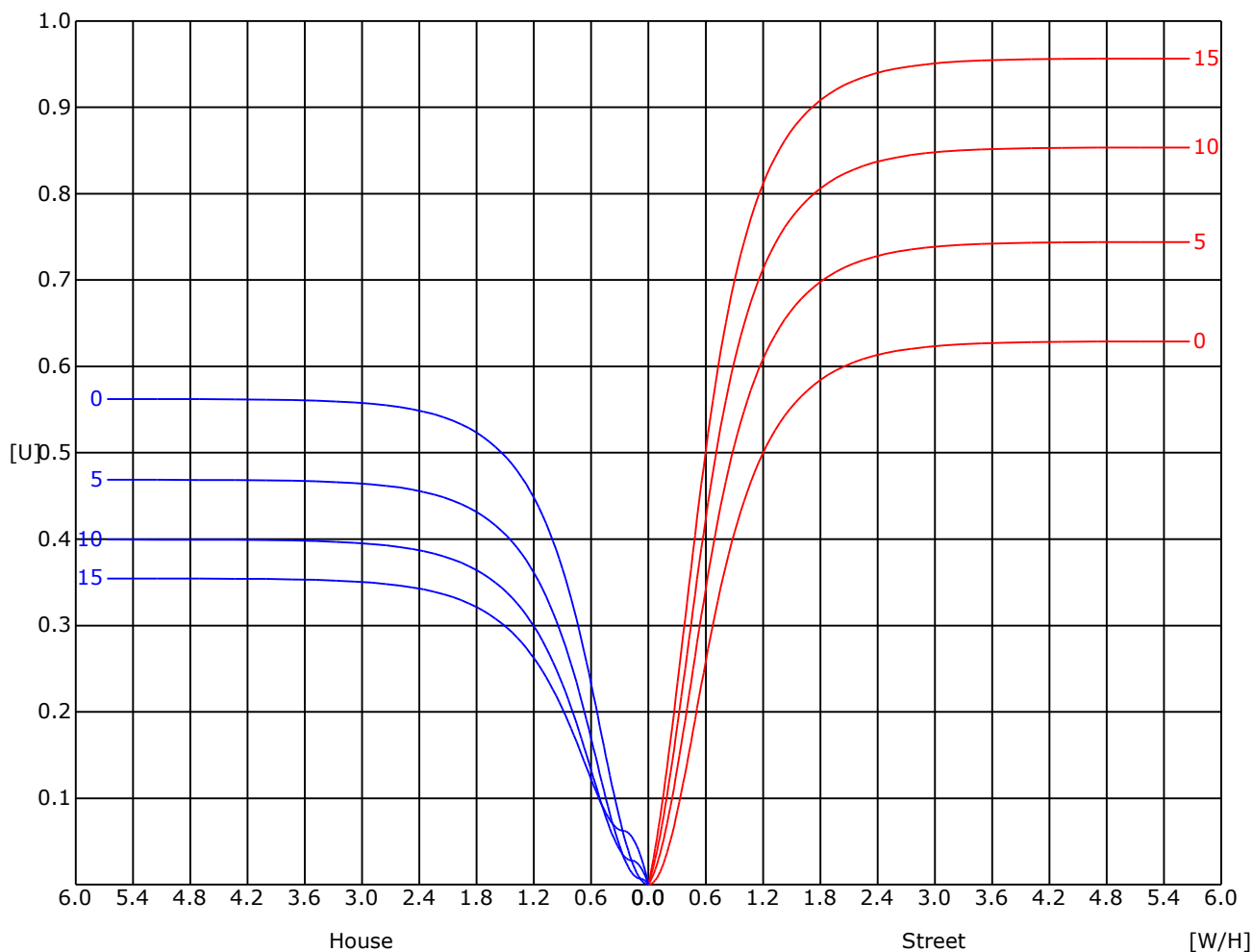
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UTILIZATION FACTOR DIAGRAM (ROAD)



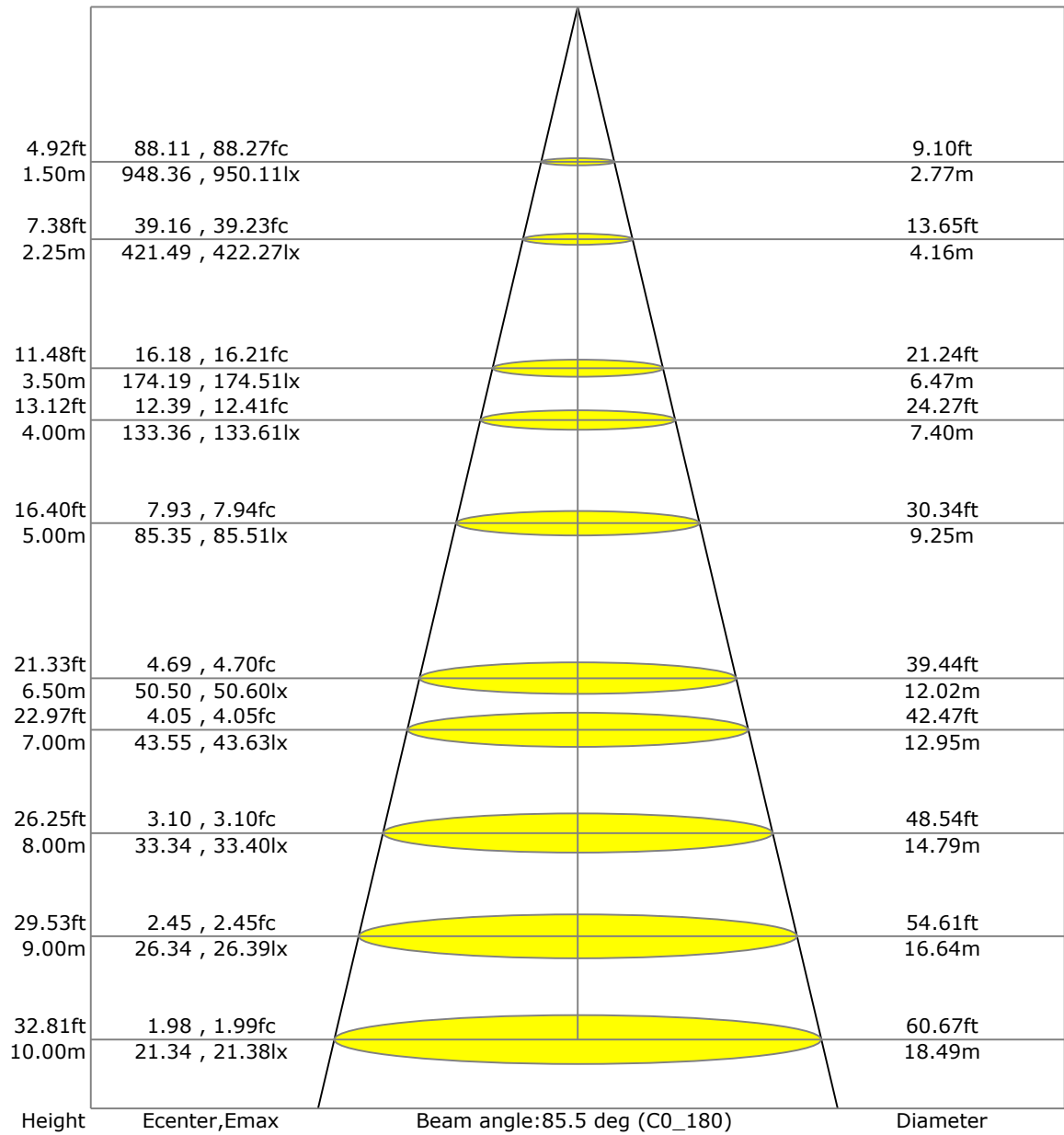
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Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



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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	16.28	16.34	16.48	16.53	16.78	16.53	16.60	16.73	16.78	17.03
3H	16.29	16.35	16.50	16.55	16.79	16.53	16.59	16.73	16.78	17.03
4H	16.27	16.33	16.48	16.53	16.78	16.50	16.56	16.71	16.76	17.01
6H	16.24	16.30	16.46	16.51	16.76	16.48	16.54	16.69	16.74	16.99
8H	16.23	16.29	16.45	16.49	16.75	16.46	16.52	16.68	16.73	16.98
12H	16.22	16.28	16.44	16.48	16.74	16.45	16.51	16.67	16.71	16.97
4H 2H	16.77	16.83	16.98	17.03	17.28	17.22	17.28	17.43	17.48	17.73
3H	16.78	16.84	17.00	17.04	17.30	17.22	17.27	17.44	17.48	17.74
4H	16.75	16.81	16.98	17.02	17.28	17.19	17.24	17.42	17.46	17.72
6H	16.72	16.77	16.96	16.99	17.26	17.16	17.21	17.39	17.43	17.69
8H	16.70	16.75	16.94	16.98	17.24	17.14	17.19	17.38	17.42	17.68
12H	16.68	16.73	16.93	16.96	17.23	17.12	17.17	17.37	17.40	17.67
8H 4H	16.73	16.79	16.95	16.99	17.25	17.19	17.25	17.41	17.45	17.71
6H	16.67	16.71	16.92	16.95	17.22	17.11	17.16	17.36	17.39	17.67
8H	16.65	16.69	16.91	16.93	17.21	17.09	17.13	17.35	17.38	17.65
12H	16.63	16.66	16.89	16.92	17.20	17.07	17.11	17.34	17.36	17.64
12H 4H	16.68	16.73	16.93	16.96	17.23	17.13	17.18	17.38	17.41	17.68
6H	16.65	16.69	16.91	16.93	17.21	17.09	17.13	17.35	17.38	17.66

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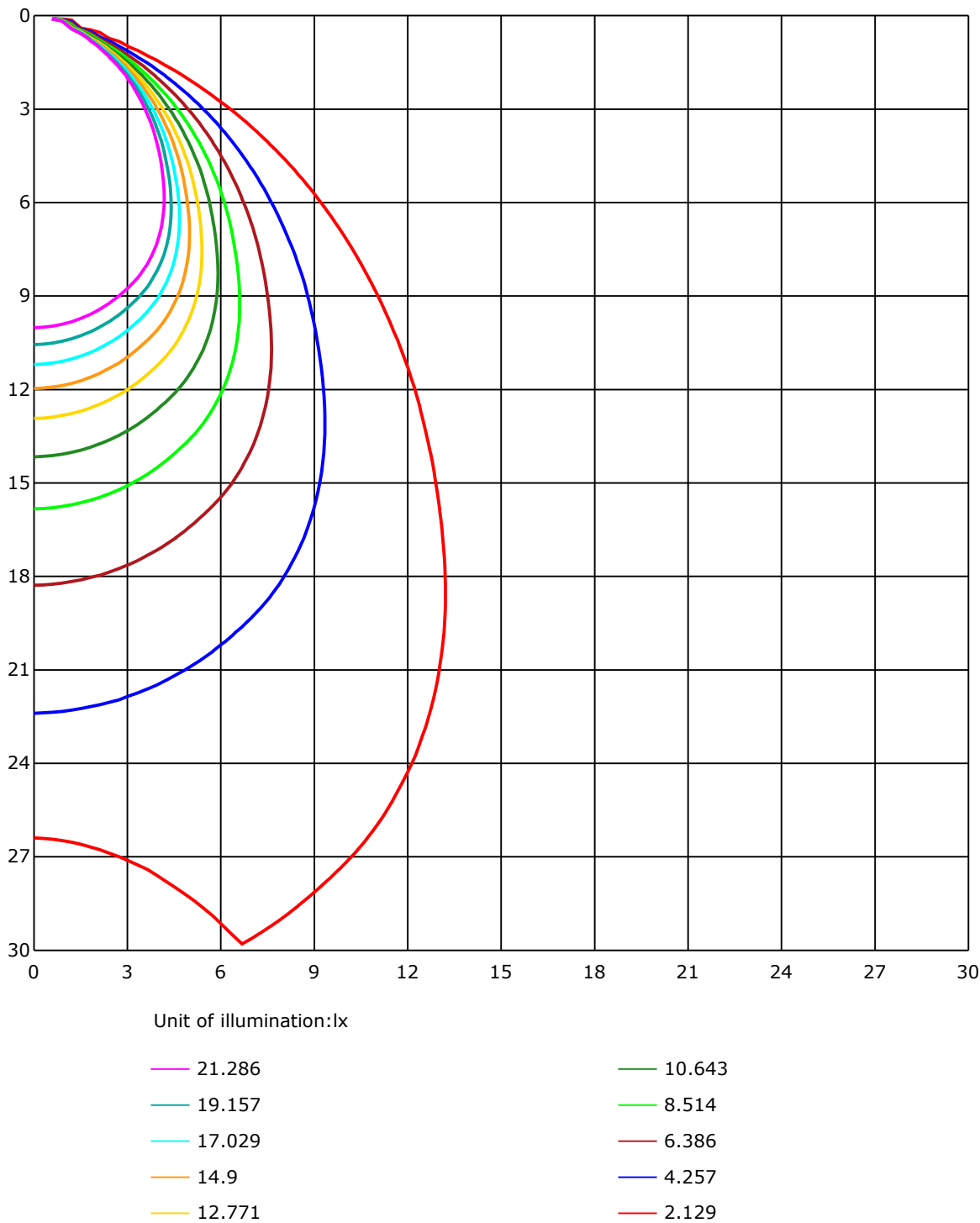
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 8:34:43

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	2133.81	2126.58	2129.54	2129.78	2133.81	2126.58	2129.54	2129.78	2133.81	
G1	2132.0	2117.81	2128.66	2132.42	2137.75	2121.71	2125.14	2132.1	2132.0	
G2	2128.99	2118.92	2124.95	2130.84	2134.55	2122.31	2121.2	2127.37	2128.99	
G3	2124.77	2114.43	2123.42	2125.37	2134.55	2123.28	2119.06	2127.64	2124.77	
G4	2119.71	2104.46	2122.36	2121.94	2130.89	2126.21	2114.57	2120.83	2119.71	
G5	2113.64	2099.54	2119.11	2121.99	2127.6	2117.49	2109.09	2115.86	2113.64	
G6	2106.54	2093.46	2114.57	2112.06	2124.68	2113.82	2105.38	2111.64	2106.54	
G7	2101.02	2083.68	2107.66	2107.05	2116.19	2109.05	2097.59	2104.83	2101.02	
G8	2088.92	2074.4	2102.97	2099.68	2109.74	2104.69	2086.28	2096.85	2088.92	
G9	2079.13	2065.64	2097.27	2091.42	2103.85	2096.66	2081.27	2088.18	2079.13	
G10	2069.49	2054.74	2087.9	2080.9	2093.6	2092.21	2067.91	2076.86	2069.49	
G11	2057.52	2041.43	2079.13	2073.8	2083.91	2080.53	2053.49	2068.84	2057.52	
G12	2041.89	2032.9	2071.25	2061.37	2073.1	2075.42	2047.37	2057.34	2041.89	
G13	2029.47	2014.3	2062.48	2049.27	2064.29	2063.69	2030.95	2046.11	2029.47	
G14	2014.62	1999.65	2049.87	2038.18	2049.92	2049.45	2015.27	2029.42	2014.62	
G15	1999.18	1982.63	2034.89	2026.13	2040.22	2038.93	2001.59	2014.76	1999.18	
G16	1982.35	1970.15	2023.53	2007.34	2022.23	2031.18	1985.41	1997.84	1982.35	
G17	1963.56	1950.9	2008.69	1991.71	2006.42	2012.86	1965.7	1984.43	1963.56	
G18	1945.29	1930.54	1996.31	1977.89	1989.21	1994.96	1949.0	1965.98	1945.29	
G19	1927.11	1910.79	1977.99	1960.18	1970.47	1979.84	1932.45	1949.56	1927.11	
G20	1907.59	1892.47	1961.38	1942.83	1952.2	1963.8	1913.99	1927.72	1907.59	
G21	1888.53	1865.71	1941.63	1921.5	1937.45	1946.92	1887.51	1910.93	1888.53	
G22	1865.8	1842.06	1917.65	1900.31	1919.6	1926.51	1866.73	1890.24	1865.8	
G23	1840.85	1813.91	1894.33	1876.42	1899.24	1903.41	1842.71	1865.99	1840.85	
G24	1814.0	1789.75	1870.81	1850.64	1877.3	1884.86	1815.58	1839.74	1814.0	
G25	1781.82	1754.5	1843.96	1826.11	1858.66	1860.66	1782.47	1814.33	1781.82	
G26	1750.47	1722.87	1814.19	1795.82	1828.93	1836.59	1751.53	1784.04	1750.47	
G27	1719.67	1690.87	1786.69	1765.03	1806.07	1810.8	1721.25	1757.14	1719.67	
G28	1681.55	1654.24	1757.75	1730.52	1772.4	1781.58	1686.1	1721.57	1681.55	
G29	1645.33	1612.03	1721.34	1698.8	1741.65	1750.05	1646.82	1686.37	1645.33	
G30	1605.12	1571.55	1684.98	1658.09	1704.04	1712.76	1607.44	1649.04	1605.12	
G31	1562.64	1531.52	1649.6	1620.47	1672.6	1678.26	1568.25	1609.76	1562.64	
G32	1518.21	1490.48	1609.44	1578.5	1629.1	1641.85	1527.03	1568.35	1518.21	
G33	1473.09	1438.49	1568.81	1537.92	1590.28	1599.47	1480.7	1526.52	1473.09	
G34	1426.81	1392.63	1526.24	1492.52	1547.2	1560.56	1435.43	1480.09	1426.81	
G35	1377.14	1346.02	1480.23	1446.47	1502.91	1512.88	1387.16	1435.39	1377.14	
G36	1327.7	1295.89	1437.75	1396.71	1456.16	1471.33	1341.1	1386.46	1327.7	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1278.68	1245.29	1388.22	1349.68	1412.62	1421.75	1290.18	1337.58	1278.68	
G38	1227.62	1198.13	1338.04	1301.27	1362.81	1375.65	1241.35	1289.67	1227.62	
G39	1180.09	1148.64	1288.75	1248.77	1315.04	1324.83	1191.22	1239.12	1180.09	
G40	1129.95	1104.22	1241.26	1198.41	1264.91	1276.87	1144.79	1189.92	1129.95	
G41	1085.06	1058.72	1192.52	1148.92	1217.23	1228.32	1099.95	1144.28	1085.06	
G42	1041.33	1016.24	1144.01	1101.66	1166.59	1179.02	1055.2	1097.63	1041.33	
G43	996.02	972.32	1098.51	1056.49	1122.16	1132.27	1010.63	1055.1	996.02	
G44	953.86	931.74	1055.66	1012.62	1075.14	1088.68	970.14	1012.72	953.86	
G45	914.03	890.98	1012.39	973.02	1034.47	1046.38	927.52	970.1	914.03	
G46	873.45	851.7	970.7	931.32	989.48	1004.83	886.53	927.8	873.45	
G47	831.52	810.84	928.36	889.73	949.5	960.59	846.69	887.92	831.52	
G48	792.8	771.28	888.84	848.03	907.21	920.33	806.9	846.27	792.8	
G49	751.25	732.33	847.71	808.71	867.51	879.15	765.25	805.88	751.25	
G50	714.33	695.69	807.04	768.13	826.84	838.9	726.2	766.69	714.33	
G51	677.51	659.0	768.03	730.47	788.49	798.41	688.04	730.56	677.51	
G52	639.76	622.65	730.42	691.65	748.14	759.73	652.47	692.16	639.76	
G53	604.98	587.82	692.91	656.55	709.97	721.06	615.83	655.57	604.98	
G54	569.5	553.87	655.39	619.35	672.18	684.42	580.58	619.91	569.5	
G55	536.25	519.64	619.82	583.41	635.96	647.18	544.46	584.71	536.25	
G56	501.84	486.76	585.08	549.19	599.32	610.82	510.83	548.4	501.84	
G57	469.47	454.53	551.27	516.03	566.76	575.9	477.63	515.98	469.47	
G58	437.37	424.06	517.97	482.96	531.47	543.11	445.58	481.57	437.37	
G59	405.47	392.02	483.98	450.78	497.43	508.75	412.52	449.85	405.47	
G60	373.98	362.15	452.68	418.87	464.97	474.24	382.19	416.18	373.98	
G61	343.32	331.4	420.12	386.78	433.48	441.83	350.88	385.66	343.32	
G62	313.36	302.79	389.56	356.31	401.15	410.2	322.55	354.13	313.36	
G63	284.84	273.48	358.86	326.26	369.99	378.8	292.45	325.14	284.84	
G64	256.04	245.98	330.34	296.34	339.47	348.52	264.11	295.37	256.04	
G65	228.68	218.57	300.19	267.73	309.19	318.28	236.61	266.48	228.68	
G66	202.43	192.18	271.67	240.23	280.02	289.25	209.9	238.65	202.43	
G67	175.77	166.68	243.24	213.24	251.36	260.68	182.91	212.17	175.77	
G68	150.86	142.19	216.34	186.94	223.58	233.23	157.86	184.99	150.86	
G69	128.09	119.33	189.54	162.22	197.61	206.74	133.89	159.77	128.09	
G70	105.46	97.25	163.94	138.29	172.29	180.63	111.12	135.6	105.46	
G71	84.5	76.89	138.85	115.52	146.73	155.04	89.18	112.42	84.5	
G72	64.83	58.2	115.52	93.63	123.08	130.69	69.43	90.39	64.83	
G73	47.07	41.09	93.82	73.65	100.91	107.64	50.78	70.45	47.07	

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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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