

Report No.:

Test Time: 2024/9/12 9:41:32

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-34.7W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

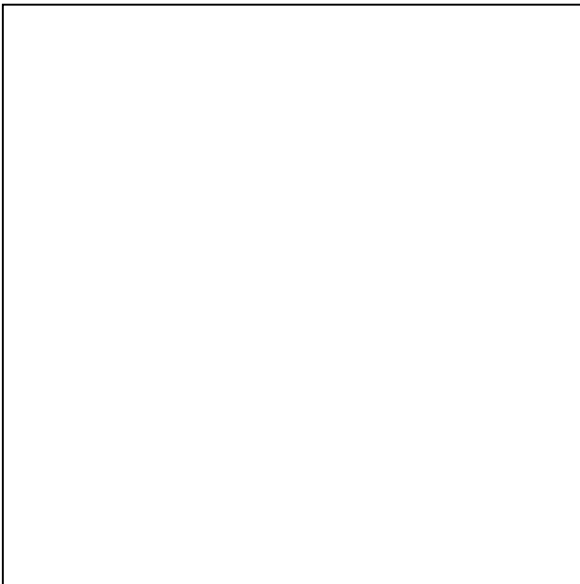
Voltage(V): 219.80 V
Current(A): 0.1620 A
Power(W): 34.72 W
Power Factor: 0.9700
Lamp Luminous Flux: 3800.78

Photometric Results

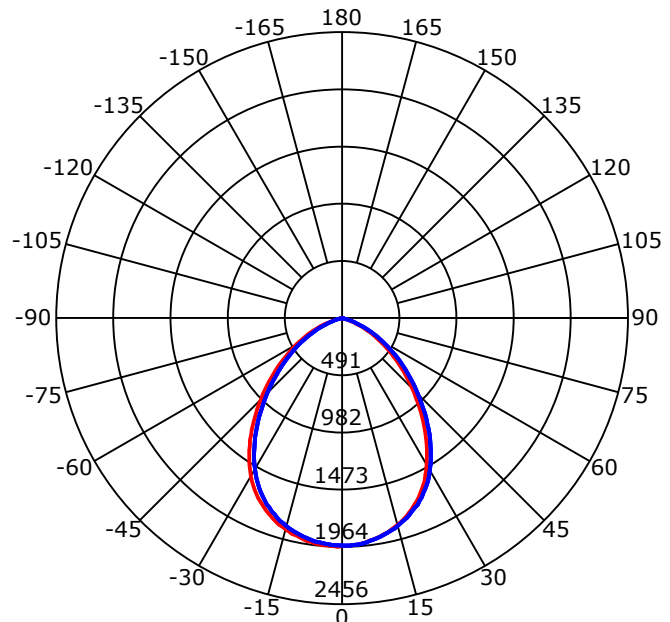
CIE Class: Direct
Luminaire Luminous Flux: 3800.779 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 109.47 lm/W
Beam Angle(50%) C0-180,C90-270: 86.8,86.8
Field Angle(10%) C0-180,C90-270: 134.8,134.6
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1964.49 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1957.77 cd
Effective Luminous Flux: 3699.07 lm
ERP(ϕ use)(120deg): 3490.13 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 86.8 deg,86.8 deg

C0-180 — C90-270 —

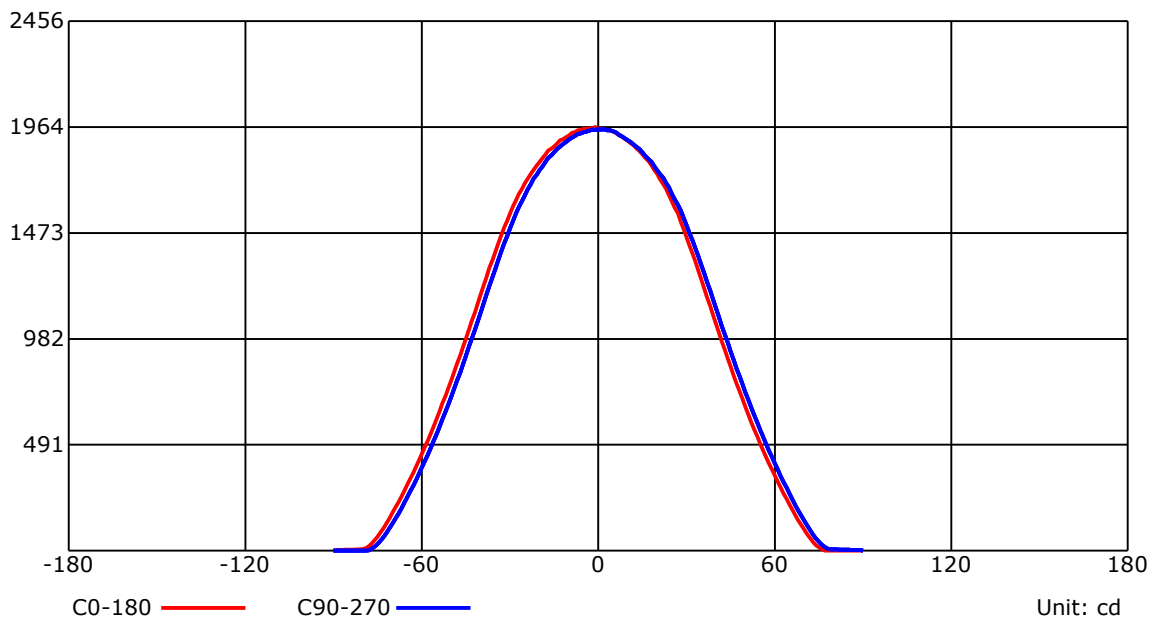
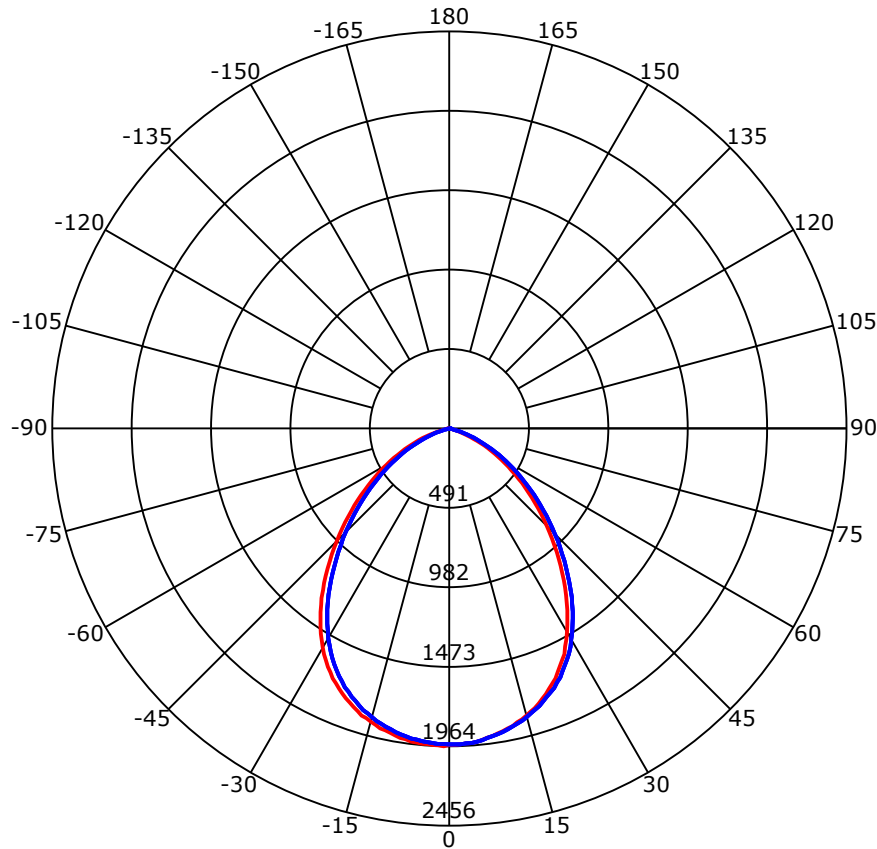
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:41:32

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

Report No.:

Test Time: 2024/9/12 9:41:32

Luminous Intensity Distribution Curve



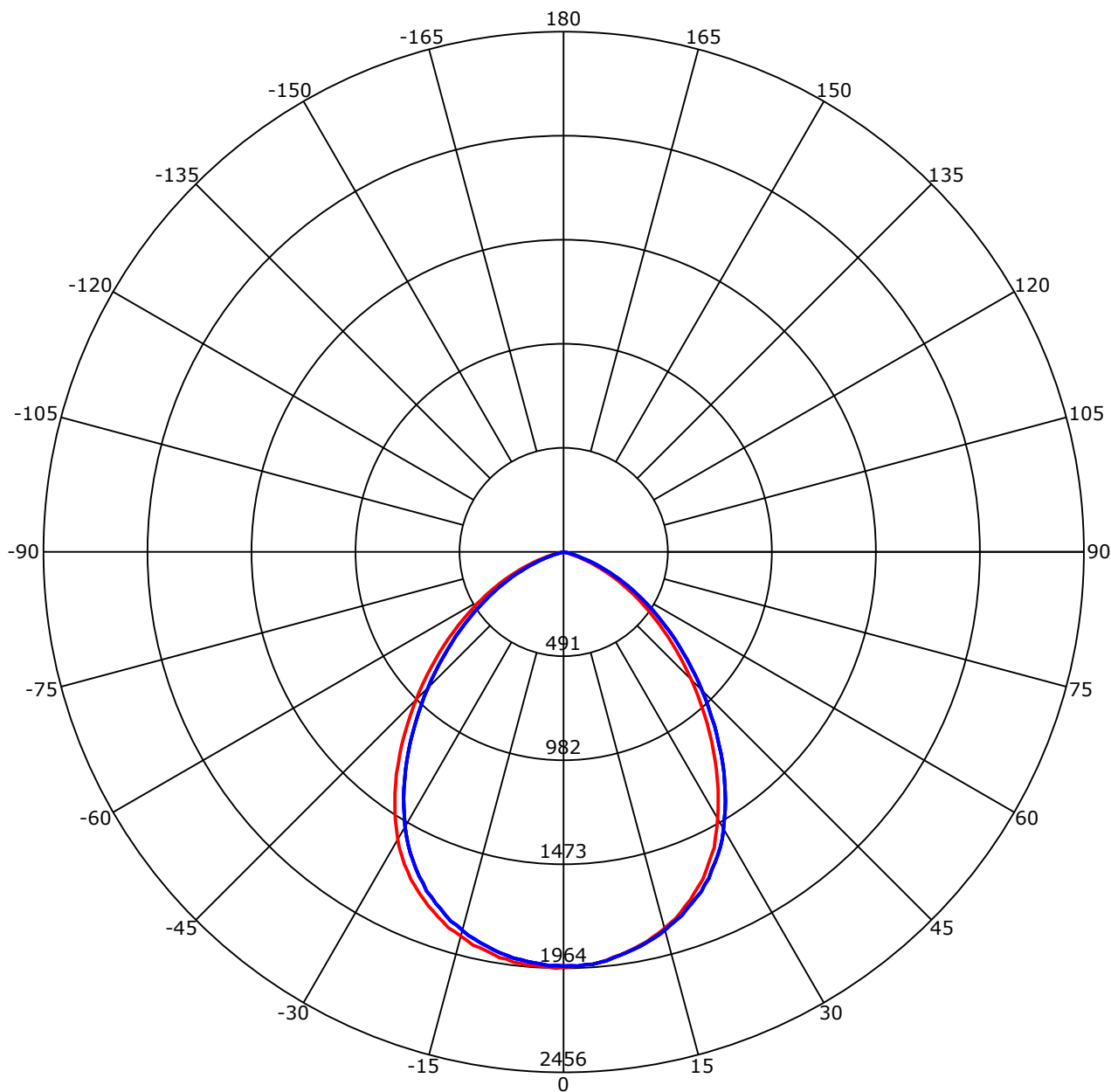
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:41:32

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

Report No.:

Test Time: 2024/9/12 9:41:32

Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

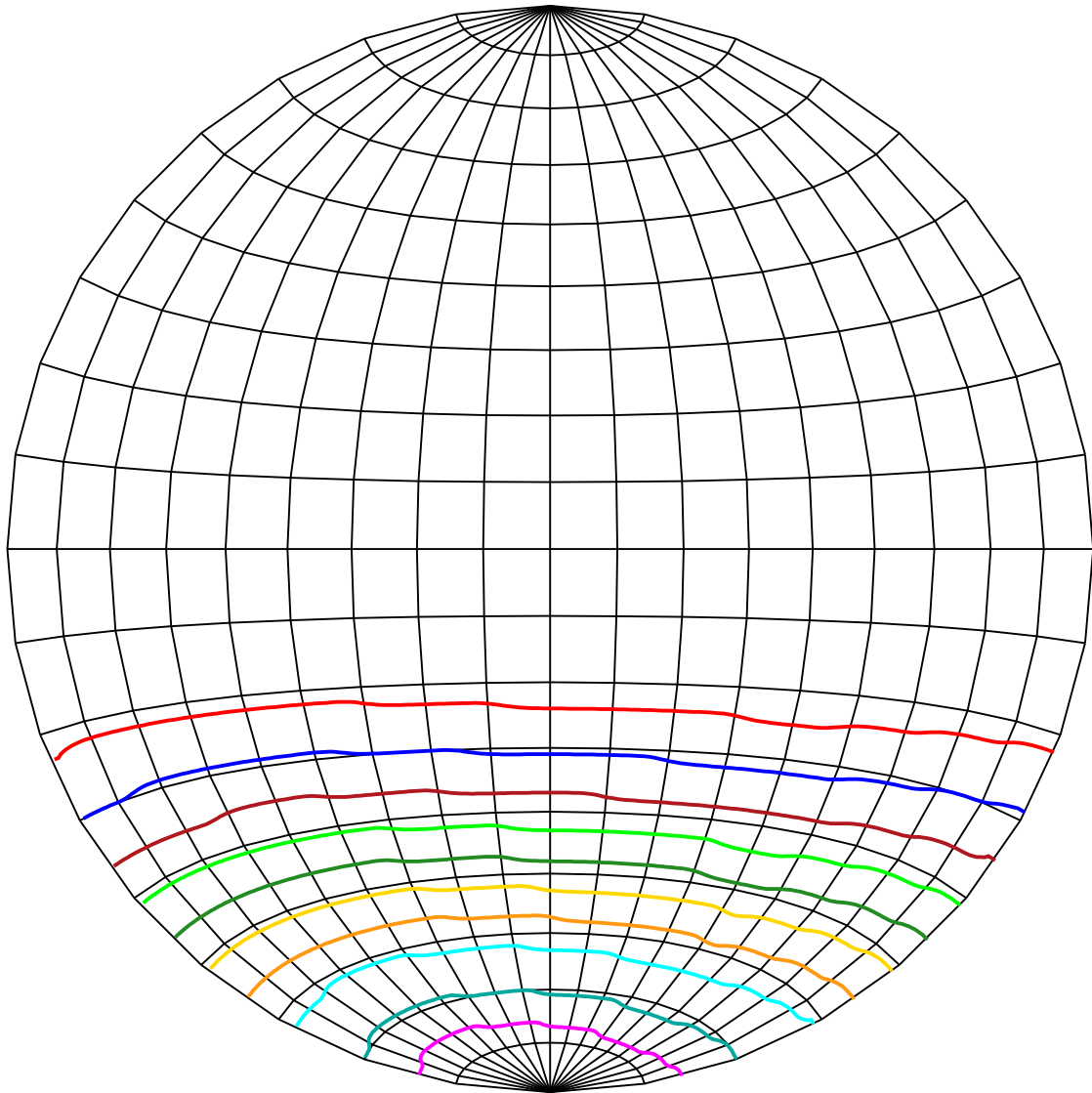
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:41:32

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

Report No.:

Test Time: 2024/9/12 9:41:32

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1964.492 cd

1866.267(95%Imax)	982.246(50%Imax)
1768.042(90%Imax)	785.797(40%Imax)
1571.593(80%Imax)	589.348(30%Imax)
1375.144(70%Imax)	392.898(20%Imax)
1178.695(60%Imax)	196.449(10%Imax)

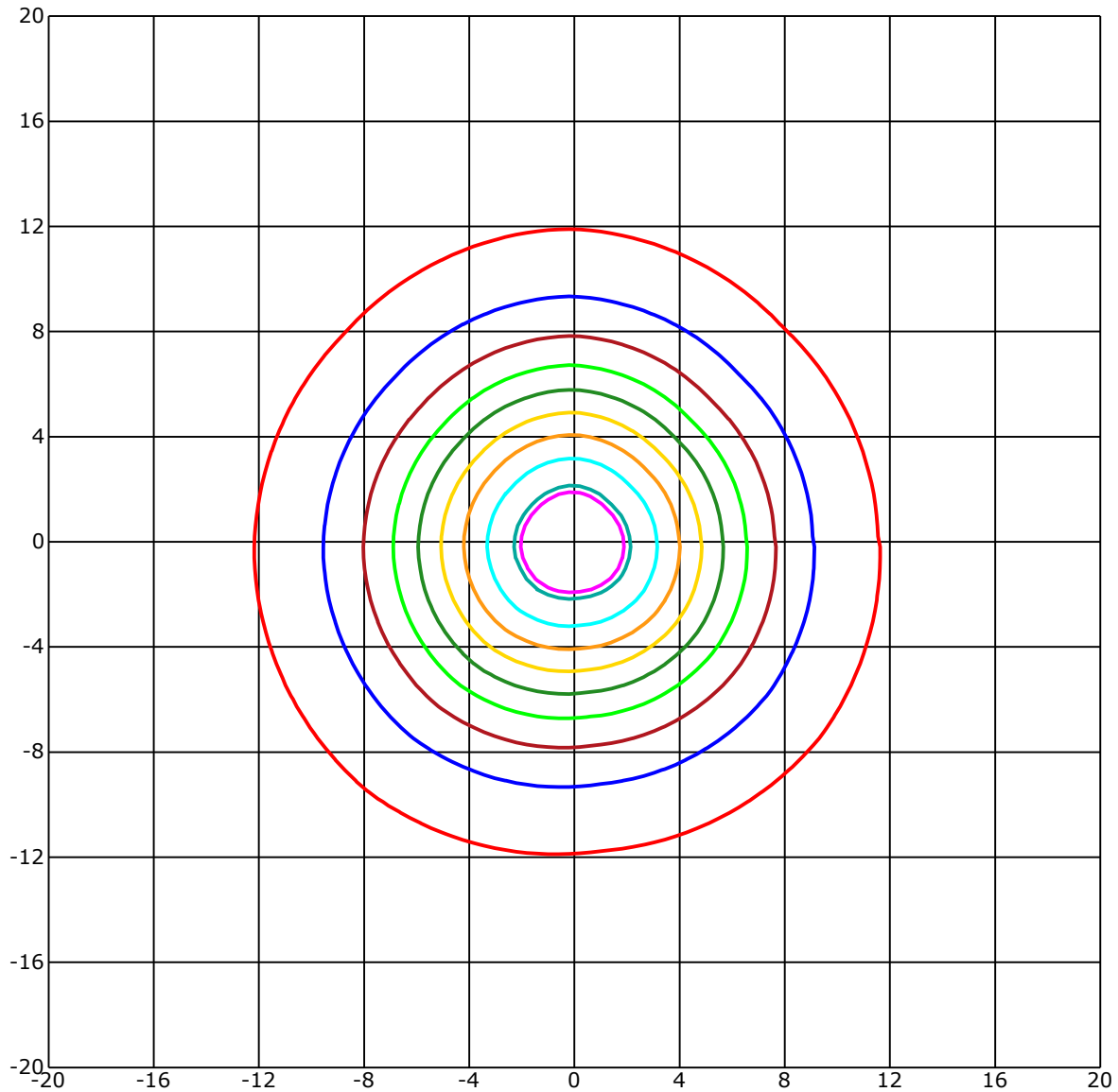
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:41:32

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

Report No.:

Test Time: 2024/9/12 9:41:32

ISOLX DIAGRAM



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

18.065(92%Emax)	9.818(50%Emax)
17.672(90%Emax)	7.854(40%Emax)
15.709(80%Emax)	5.891(30%Emax)
13.745(70%Emax)	3.927(20%Emax)
11.782(60%Emax)	1.964(10%Emax)

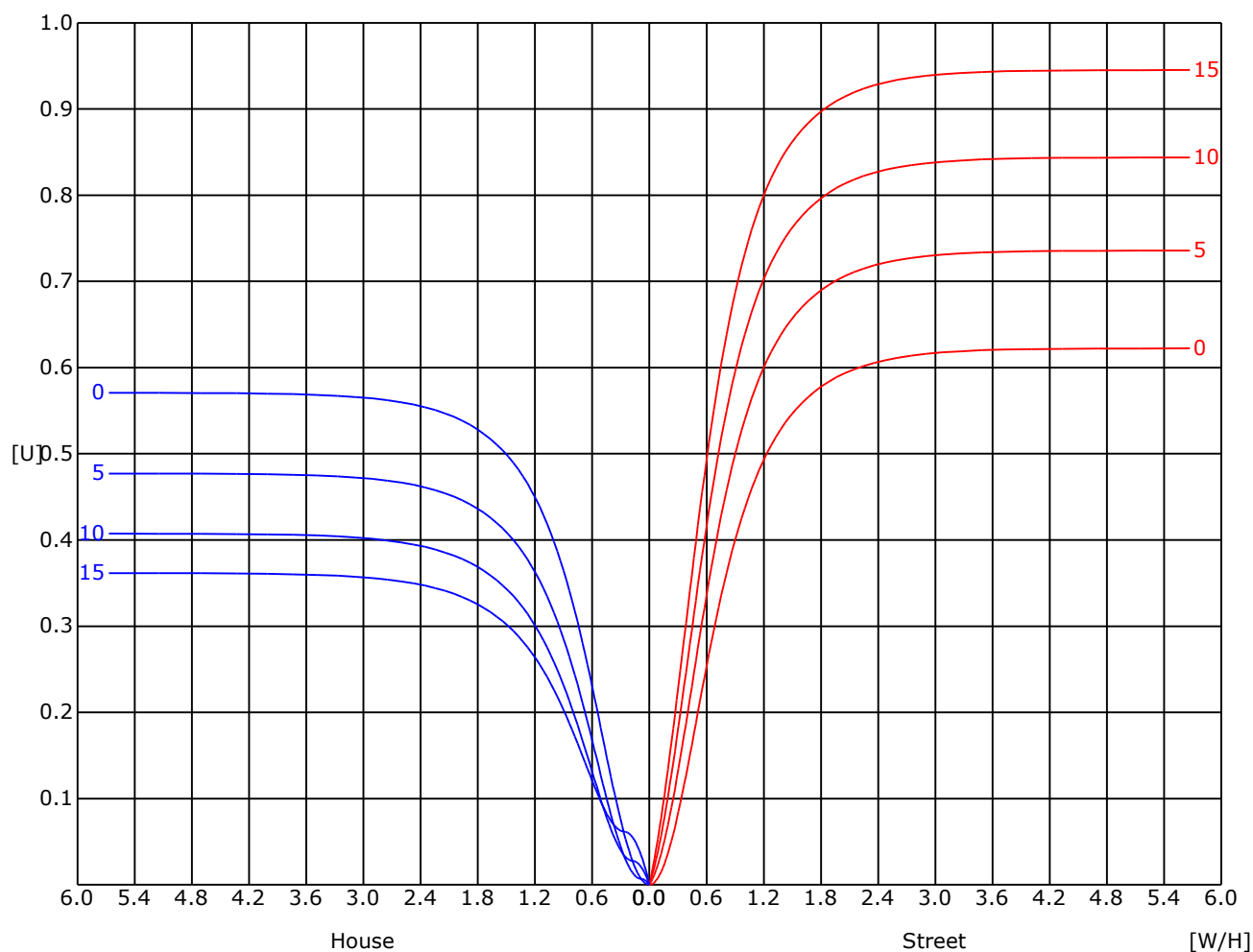
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:41:32

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

Report No.:

Test Time: 2024/9/12 9:41:32

UTILIZATION FACTOR DIAGRAM (ROAD)



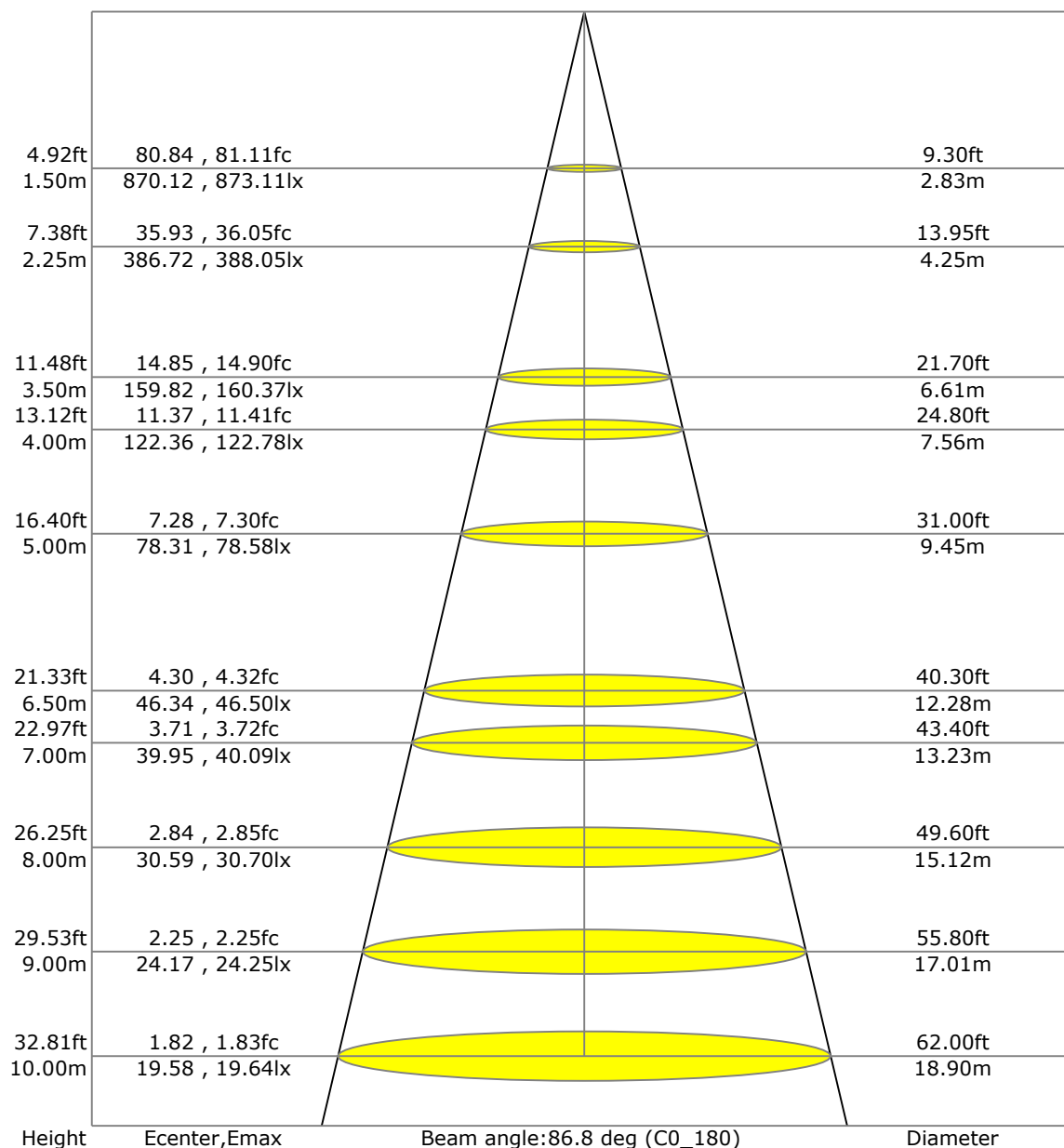
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:41:32

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

Report No.:

Test Time: 2024/9/12 9:41:32

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/9/12 9:41:32

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

Report No.:

Test Time: 2024/9/12 9:41:32

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	16.10	16.16	16.30	16.35	16.59	16.30	16.37	16.50	16.55	16.80
3H	16.10	16.17	16.31	16.36	16.61	16.29	16.36	16.50	16.55	16.80
4H	16.08	16.14	16.29	16.34	16.59	16.27	16.33	16.48	16.53	16.78
6H	16.05	16.12	16.27	16.32	16.57	16.24	16.31	16.46	16.51	16.76
8H	16.04	16.10	16.26	16.30	16.56	16.23	16.29	16.45	16.49	16.75
12H	16.03	16.09	16.25	16.29	16.55	16.22	16.28	16.44	16.48	16.74
4H 2H	16.57	16.63	16.78	16.83	17.08	16.92	16.99	17.14	17.18	17.43
3H	16.57	16.63	16.79	16.83	17.09	16.91	16.97	17.13	17.18	17.43
4H	16.54	16.60	16.77	16.81	17.07	16.88	16.94	17.11	17.15	17.41
6H	16.51	16.56	16.75	16.78	17.05	16.85	16.90	17.09	17.12	17.39
8H	16.49	16.54	16.73	16.77	17.03	16.83	16.88	17.08	17.11	17.38
12H	16.47	16.52	16.72	16.75	17.02	16.82	16.86	17.06	17.10	17.36
8H 4H	16.53	16.59	16.75	16.79	17.05	16.89	16.95	17.11	17.15	17.41
6H	16.45	16.50	16.71	16.74	17.01	16.80	16.85	17.06	17.08	17.36
8H	16.43	16.48	16.70	16.72	17.00	16.78	16.82	17.04	17.07	17.35
12H	16.41	16.45	16.68	16.71	16.99	16.76	16.80	17.03	17.05	17.33
12H 4H	16.47	16.52	16.72	16.75	17.02	16.82	16.87	17.07	17.10	17.37
6H	16.43	16.48	16.70	16.72	17.00	16.78	16.82	17.04	17.07	17.35

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:41:32

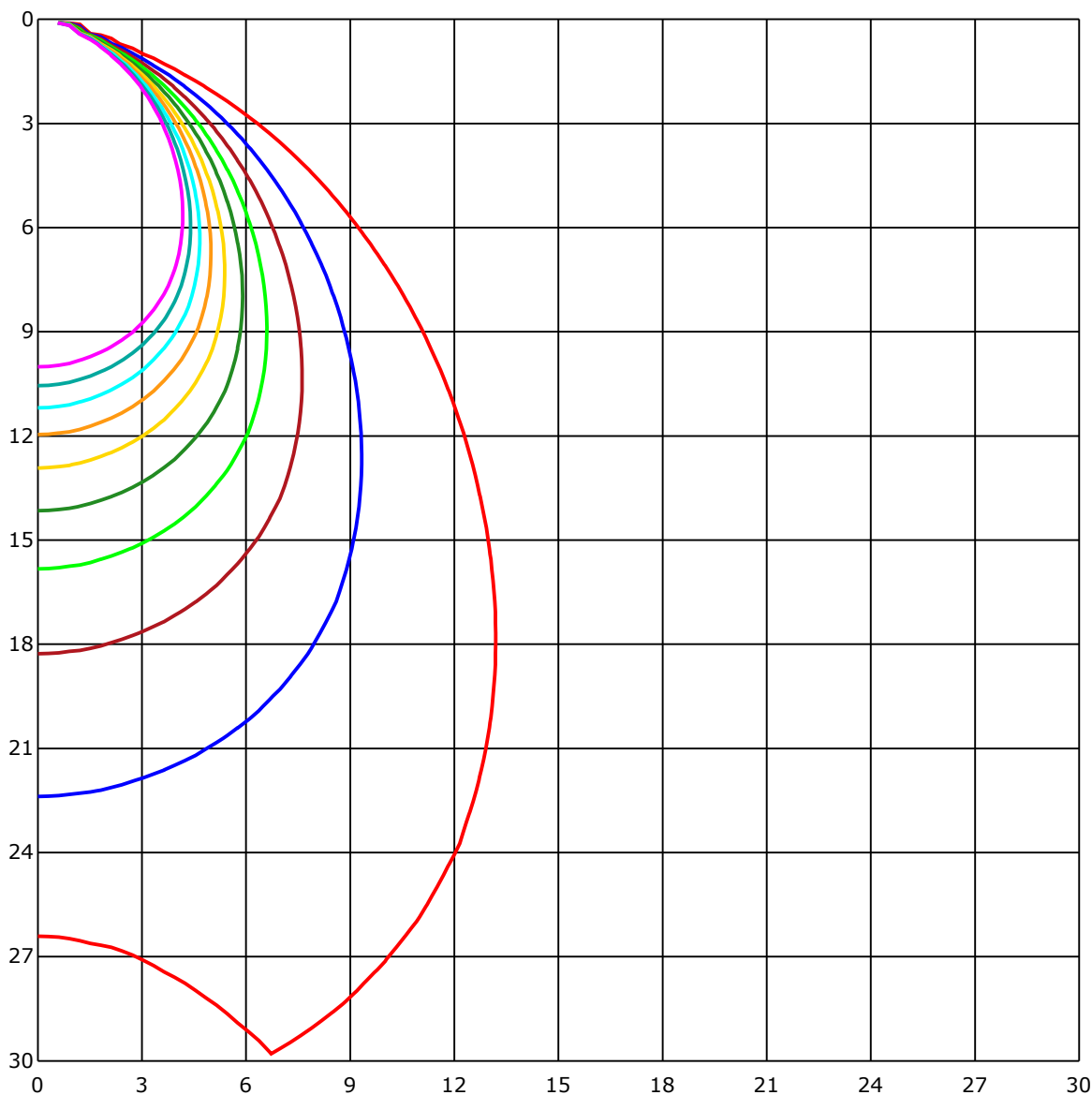
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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

Report No.:

Test Time: 2024/9/12 9:41:32

SPACE ISOLX DIAGRAM



19.545
17.59
15.636
13.681
11.727

9.772
7.818
5.863
3.909
1.954

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:41:32

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

Report No.:

Test Time: 2024/9/12 9:41:32

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1957.77	1948.68	1953.69	1956.47	1957.77	1948.68	1953.69	1956.47	1957.77	
G1	1957.44	1944.36	1953.13	1953.96	1964.49	1950.76	1951.78	1958.0	1957.44	
G2	1954.85	1942.0	1954.47	1953.59	1960.13	1950.21	1953.08	1957.26	1954.85	
G3	1949.88	1940.1	1949.42	1951.97	1959.02	1950.25	1947.89	1952.48	1949.88	
G4	1949.47	1934.58	1950.12	1945.34	1955.73	1956.24	1944.36	1949.7	1949.47	
G5	1944.09	1925.35	1944.64	1943.16	1956.98	1949.05	1940.1	1953.32	1944.09	
G6	1936.48	1916.59	1939.03	1936.02	1951.78	1946.13	1934.72	1941.44	1936.48	
G7	1926.46	1908.47	1928.5	1929.43	1949.74	1942.46	1931.33	1937.22	1926.46	
G8	1919.97	1900.82	1921.41	1921.97	1940.24	1940.84	1922.99	1931.98	1919.97	
G9	1909.95	1892.1	1913.25	1913.66	1937.83	1935.04	1915.15	1924.61	1909.95	
G10	1901.37	1879.95	1904.16	1904.39	1926.56	1927.39	1906.2	1913.39	1901.37	
G11	1889.36	1869.61	1895.53	1894.42	1917.14	1917.14	1895.02	1904.06	1889.36	
G12	1880.6	1856.76	1883.52	1882.13	1908.15	1908.89	1885.7	1895.16	1880.6	
G13	1865.25	1841.41	1873.18	1872.85	1904.02	1901.37	1874.01	1886.9	1865.25	
G14	1853.0	1826.38	1861.86	1860.01	1889.04	1890.1	1864.04	1872.2	1853.0	
G15	1838.53	1811.68	1846.97	1845.07	1876.19	1880.69	1848.13	1858.06	1838.53	
G16	1822.44	1793.18	1831.39	1830.56	1863.76	1867.75	1832.09	1848.09	1822.44	
G17	1807.93	1774.58	1816.32	1814.7	1855.65	1857.6	1821.79	1831.62	1807.93	
G18	1788.17	1755.89	1803.89	1796.66	1836.96	1841.27	1802.36	1814.28	1788.17	
G19	1765.49	1734.88	1783.63	1780.29	1820.96	1827.73	1781.63	1796.98	1765.49	
G20	1747.31	1715.17	1764.05	1762.06	1802.92	1813.31	1765.31	1776.95	1747.31	
G21	1722.97	1689.25	1746.2	1742.3	1786.5	1796.61	1742.86	1760.02	1722.97	
G22	1700.38	1663.19	1729.88	1722.59	1766.19	1781.31	1726.3	1736.69	1700.38	
G23	1678.72	1637.12	1705.16	1699.36	1747.08	1758.4	1698.62	1716.61	1678.72	
G24	1648.81	1609.16	1685.4	1675.62	1725.28	1740.59	1675.85	1693.15	1648.81	
G25	1620.47	1578.27	1654.98	1649.0	1705.06	1716.8	1648.67	1670.56	1620.47	
G26	1590.79	1548.31	1629.05	1623.44	1678.07	1692.68	1621.54	1639.35	1590.79	
G27	1565.89	1514.46	1603.59	1595.15	1654.84	1669.68	1593.85	1612.78	1565.89	
G28	1525.87	1484.64	1576.7	1563.66	1625.25	1648.58	1563.25	1581.98	1525.87	
G29	1491.64	1445.59	1543.63	1534.72	1597.8	1615.6	1530.13	1551.7	1491.64	
G30	1453.75	1409.56	1508.34	1501.84	1565.38	1589.63	1496.97	1517.29	1453.75	
G31	1415.35	1370.79	1473.32	1468.69	1531.15	1555.08	1460.29	1484.82	1415.35	
G32	1377.23	1333.36	1437.47	1430.19	1498.04	1528.46	1424.21	1446.52	1377.23	
G33	1339.11	1292.32	1400.79	1388.36	1462.93	1488.72	1386.74	1411.36	1339.11	
G34	1297.6	1253.64	1364.11	1353.12	1425.32	1453.57	1348.9	1372.64	1297.6	
G35	1257.81	1213.66	1324.97	1312.91	1387.34	1416.47	1308.59	1332.2	1257.81	
G36	1215.94	1175.87	1288.05	1271.63	1348.71	1376.95	1269.73	1293.06	1215.94	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:41:32

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

Report No.:

Test Time: 2024/9/12 9:41:32

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1175.22	1132.74	1246.27	1230.5	1312.91	1339.2	1228.32	1254.1	1175.22	
G38	1134.78	1092.25	1205.45	1191.12	1268.85	1299.46	1188.34	1212.78	1134.78	
G39	1091.69	1051.39	1163.86	1149.11	1230.27	1258.65	1147.25	1173.27	1091.69	
G40	1051.72	1012.81	1123.88	1107.65	1189.32	1222.2	1105.47	1132.83	1051.72	
G41	1011.32	971.72	1084.37	1065.35	1148.46	1178.19	1064.98	1092.02	1011.32	
G42	970.14	932.67	1041.28	1025.7	1105.56	1136.08	1024.49	1051.35	970.14	
G43	929.1	893.53	1001.49	984.38	1066.05	1094.66	983.45	1010.16	929.1	
G44	889.49	854.76	963.56	943.06	1024.22	1054.82	946.12	968.24	889.49	
G45	851.93	815.85	922.7	903.78	984.24	1015.54	904.7	930.54	851.93	
G46	812.69	777.87	884.72	867.09	945.61	974.36	866.17	891.91	812.69	
G47	775.41	742.3	845.44	828.46	906.05	934.48	826.51	851.56	775.41	
G48	737.98	704.82	807.5	789.04	867.23	894.36	788.67	813.25	737.98	
G49	702.18	668.84	770.4	751.66	828.37	857.12	750.92	776.66	702.18	
G50	665.4	633.82	733.02	715.4	790.43	818.96	714.33	739.19	665.4	
G51	631.13	598.72	699.26	678.9	753.94	780.28	678.81	703.71	631.13	
G52	596.12	566.44	664.06	642.82	717.58	745.36	645.18	668.0	596.12	
G53	563.05	531.79	629.28	609.06	683.03	707.75	609.06	632.62	563.05	
G54	529.94	500.26	593.8	574.51	645.42	672.27	574.18	598.44	529.94	
G55	496.78	468.68	560.55	541.02	610.82	636.93	540.05	565.23	496.78	
G56	465.01	437.84	528.36	508.75	576.87	603.26	509.81	532.17	465.01	
G57	434.82	407.41	496.09	476.98	544.22	567.6	476.7	499.98	434.82	
G58	405.0	378.34	464.6	446.93	511.76	535.18	446.18	469.42	405.0	
G59	376.11	349.17	434.22	416.27	480.36	502.67	415.16	438.39	376.11	
G60	347.22	321.94	404.03	386.27	449.2	471.41	385.9	407.92	347.22	
G61	319.53	293.14	375.46	357.93	419.05	440.67	356.21	379.26	319.53	
G62	292.17	266.11	345.55	328.48	388.86	410.2	327.51	350.28	292.17	
G63	265.22	240.51	317.4	300.66	359.83	380.7	300.15	322.59	265.22	
G64	239.02	214.95	290.96	273.25	332.1	352.92	273.34	294.53	239.02	
G65	213.38	190.05	263.51	247.14	304.97	324.22	246.16	267.96	213.38	
G66	188.52	165.61	235.92	221.91	276.45	296.71	220.94	241.39	188.52	
G67	163.43	142.28	210.41	196.45	250.34	269.4	194.69	215.37	163.43	
G68	139.73	120.02	185.74	172.29	224.55	242.92	170.99	189.35	139.73	
G69	118.03	99.11	161.39	149.28	199.37	216.76	148.03	165.19	118.03	
G70	96.6	78.89	138.43	127.07	174.88	191.67	125.54	141.63	96.6	
G71	76.43	60.2	116.03	105.32	150.82	167.0	103.74	118.95	76.43	
G72	58.11	43.18	94.98	84.96	127.67	143.67	83.85	97.25	58.11	
G73	41.09	28.2	75.31	65.58	105.97	121.18	64.56	77.22	41.09	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:41:32

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

Test Time: 2024/9/12 9:41:32

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