

Report No.:

Test Time: 2024/9/19 16:57:29

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226SCT200-42W
Lamp Type:
Luminous Width: 193 mm
Luminous Length: 193 mm
Luminous Height: 60 mm

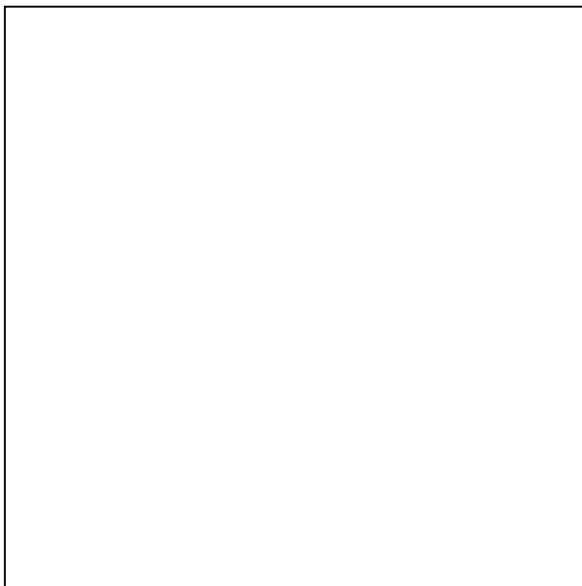
Voltage(V): 219.80 V
Current(A): 0.1910 A
Power(W): 41.29 W
Power Factor: 0.9800
Lamp Luminous Flux: 5031.41

Photometric Results

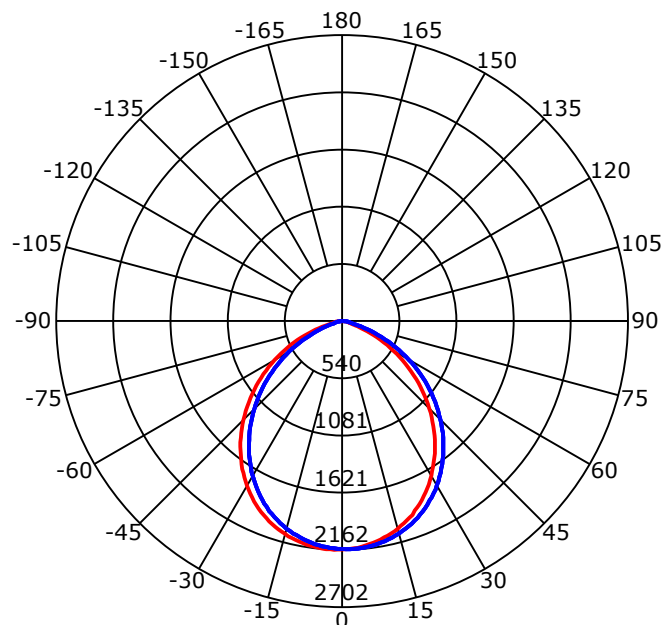
CIE Class: Direct
Luminaire Luminous Flux: 5031.41 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 121.86 lm/W
Beam Angle(50%) C0-180,C90-270: 98.5,98.7
Field Angle(10%) C0-180,C90-270: 142.5,142.5
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 2161.59 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2159.87 cd
Effective Luminous Flux: 4886.84 lm
ERP(ϕ use)(120deg): 4381.81 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 98.5 deg,98.7 deg

C0-180 — C90-270 —

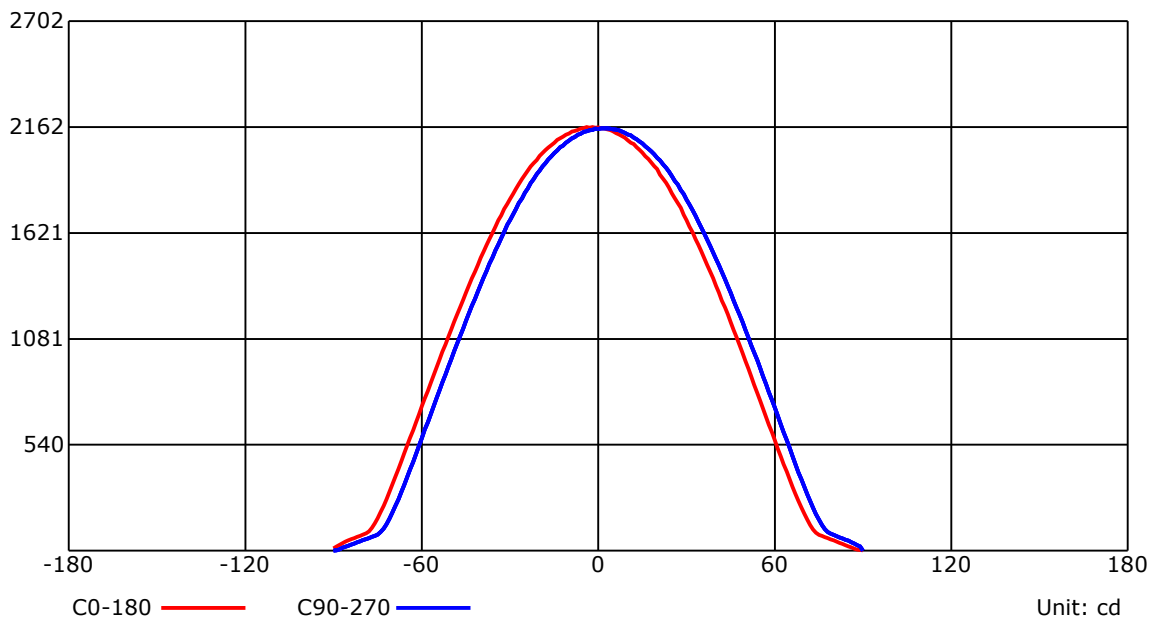
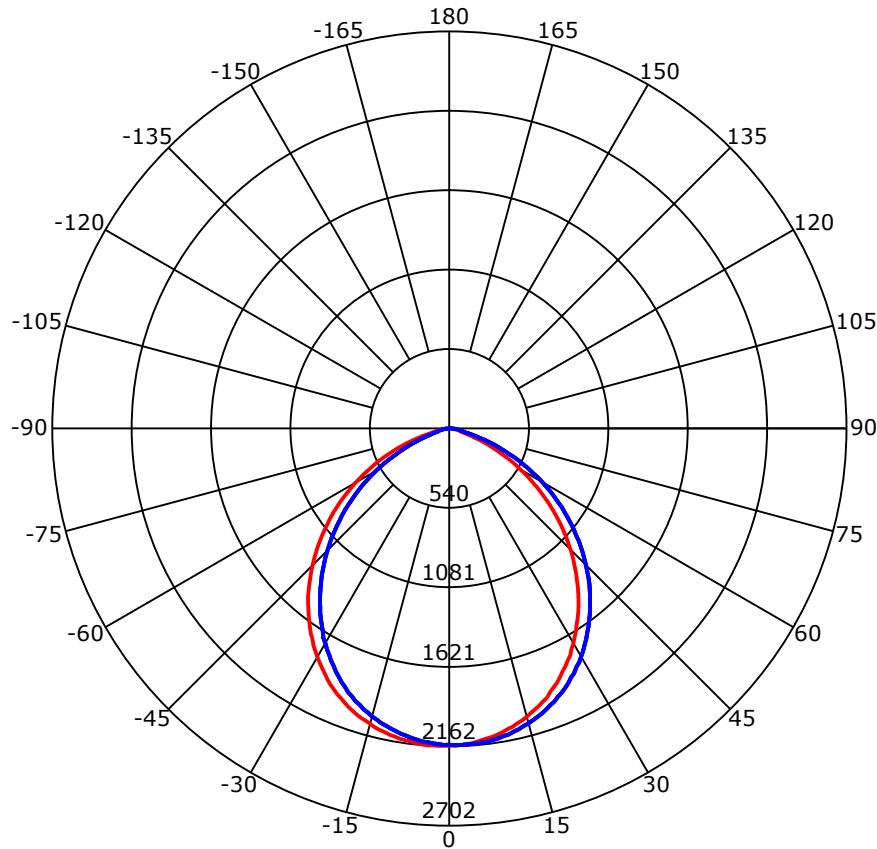
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/19 16:57:29

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



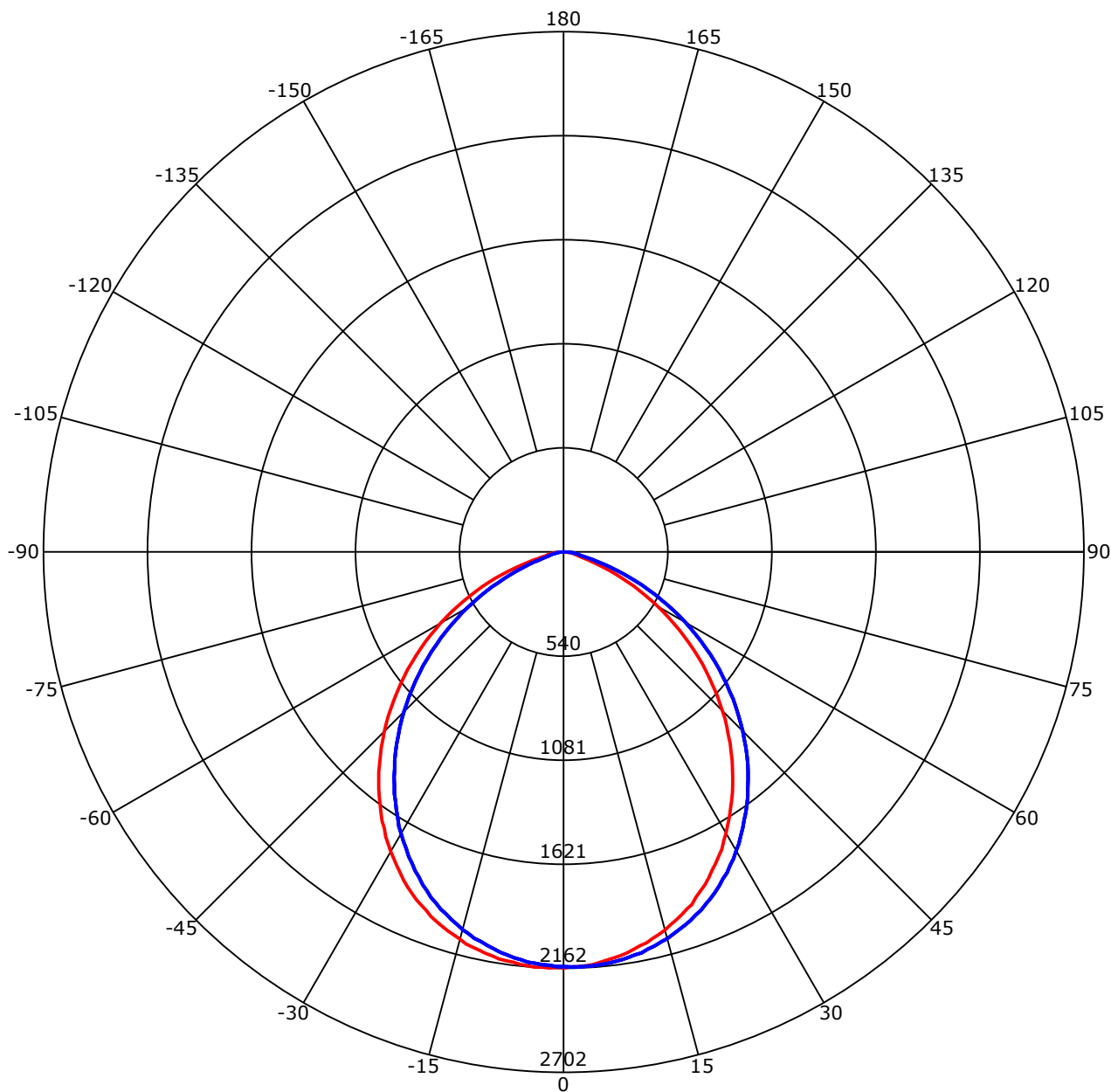
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

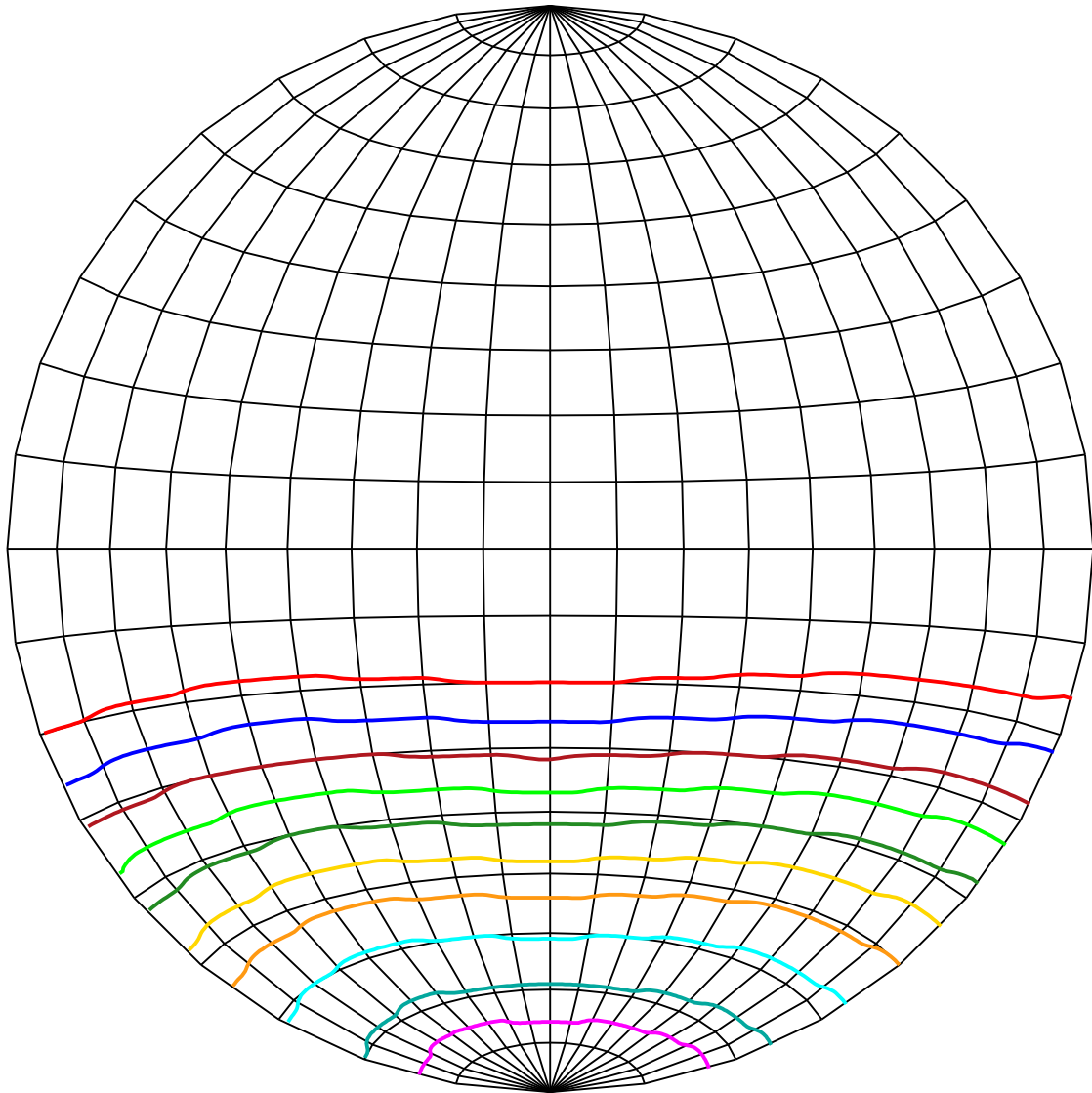
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2161.59 cd

2053.51(95%Imax)	1080.795(50%Imax)
1945.431(90%Imax)	864.636(40%Imax)
1729.272(80%Imax)	648.477(30%Imax)
1513.113(70%Imax)	432.318(20%Imax)
1296.954(60%Imax)	216.159(10%Imax)

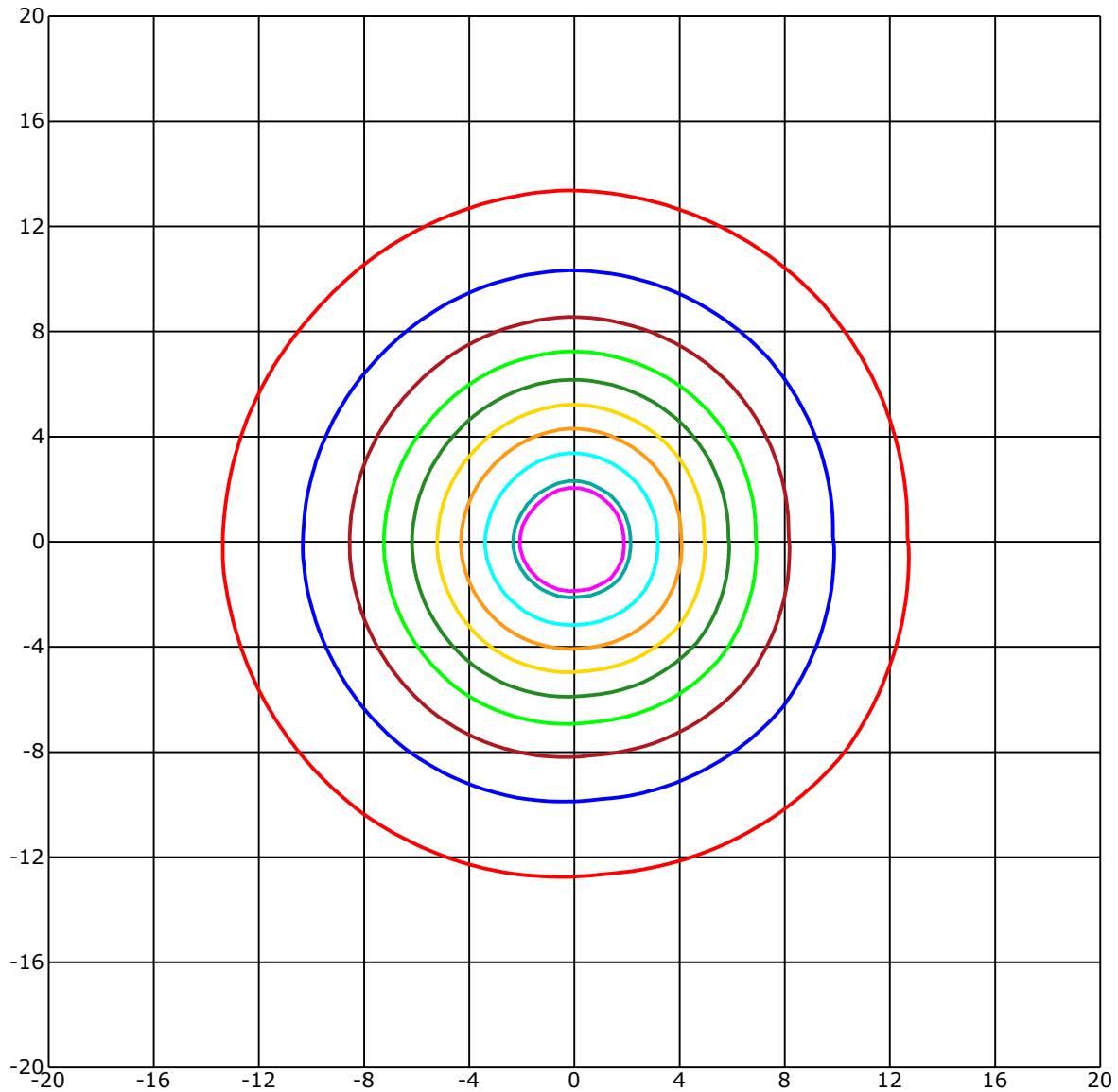
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Temperature: 25
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ISOLX DIAGRAM



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

19.871(92%Emax)	10.799(50%Emax)
19.439(90%Emax)	8.639(40%Emax)
17.279(80%Emax)	6.48(30%Emax)
15.119(70%Emax)	4.32(20%Emax)
12.959(60%Emax)	2.16(10%Emax)

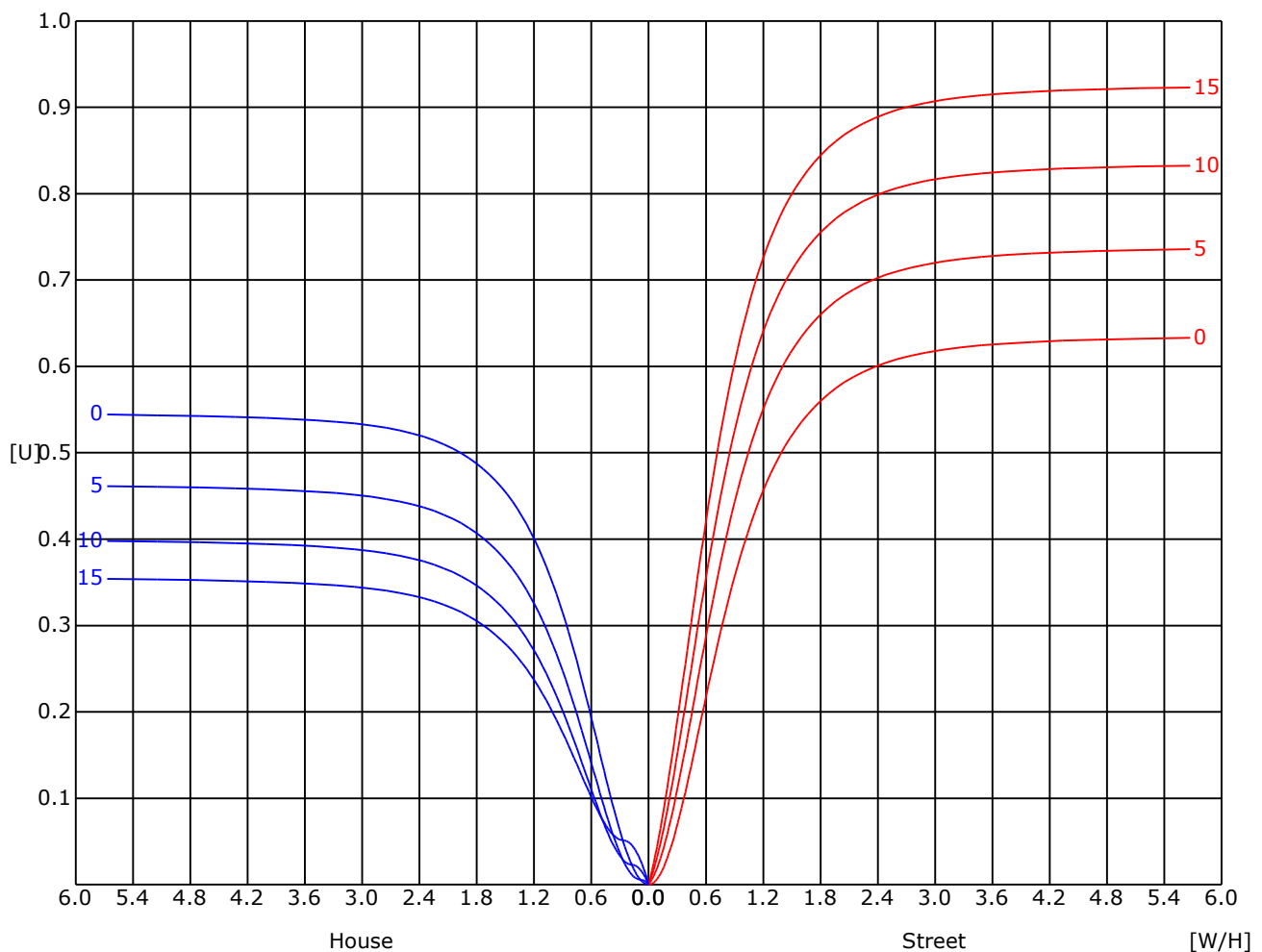
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UTILIZATION FACTOR DIAGRAM (ROAD)



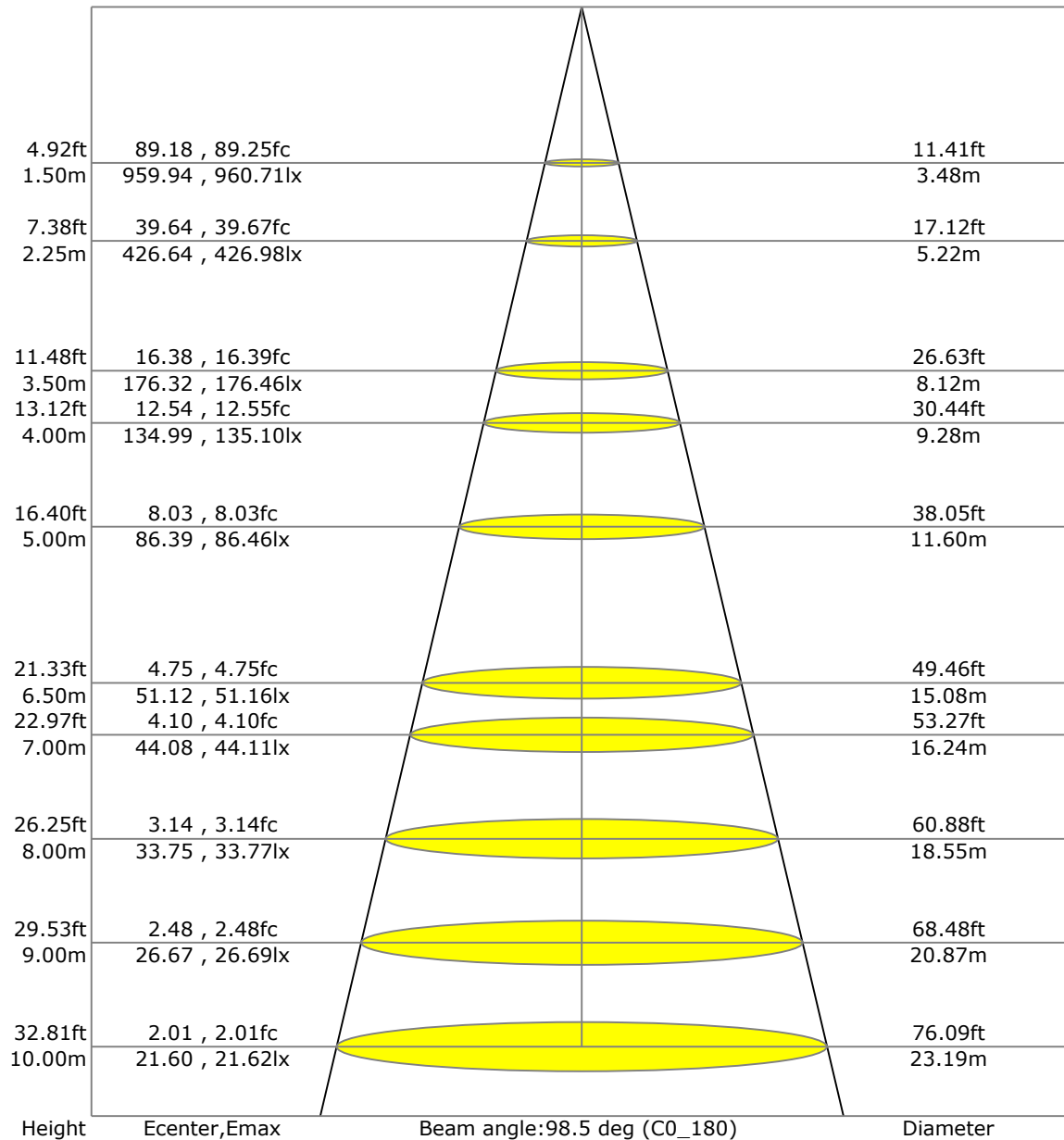
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
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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	16.54	16.61	16.74	16.80	17.04	16.87	16.94	17.07	17.12	17.37
3H	16.60	16.67	16.81	16.87	17.11	16.90	16.97	17.10	17.16	17.41
4H	16.59	16.66	16.80	16.85	17.10	16.88	16.94	17.09	17.14	17.39
6H	16.56	16.63	16.78	16.83	17.08	16.85	16.91	17.07	17.12	17.37
8H	16.55	16.61	16.77	16.82	17.07	16.84	16.90	17.05	17.10	17.36
12H	16.53	16.60	16.76	16.80	17.06	16.82	16.88	17.04	17.09	17.34
4H 2H	17.40	17.47	17.61	17.67	17.92	18.09	18.16	18.30	18.35	18.60
3H	17.53	17.59	17.75	17.80	18.06	18.18	18.24	18.40	18.44	18.70
4H	17.53	17.59	17.76	17.80	18.06	18.16	18.22	18.39	18.44	18.69
6H	17.50	17.56	17.74	17.78	18.04	18.13	18.19	18.37	18.41	18.68
8H	17.49	17.54	17.73	17.77	18.03	18.12	18.17	18.36	18.40	18.66
12H	17.47	17.52	17.72	17.75	18.02	18.10	18.15	18.35	18.38	18.65
8H 4H	17.43	17.49	17.65	17.70	17.95	18.16	18.22	18.38	18.43	18.68
6H	17.58	17.63	17.83	17.86	18.14	18.26	18.31	18.52	18.55	18.82
8H	17.57	17.61	17.83	17.86	18.13	18.25	18.29	18.51	18.54	18.81
12H	17.55	17.59	17.82	17.85	18.13	18.23	18.27	18.50	18.52	18.80
12H 4H	17.60	17.65	17.84	17.88	18.15	18.32	18.37	18.57	18.60	18.87
6H	17.59	17.64	17.85	17.88	18.16	18.31	18.36	18.57	18.60	18.88

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ZONAL LUMINOUS FLUX TABLE

[illegible]

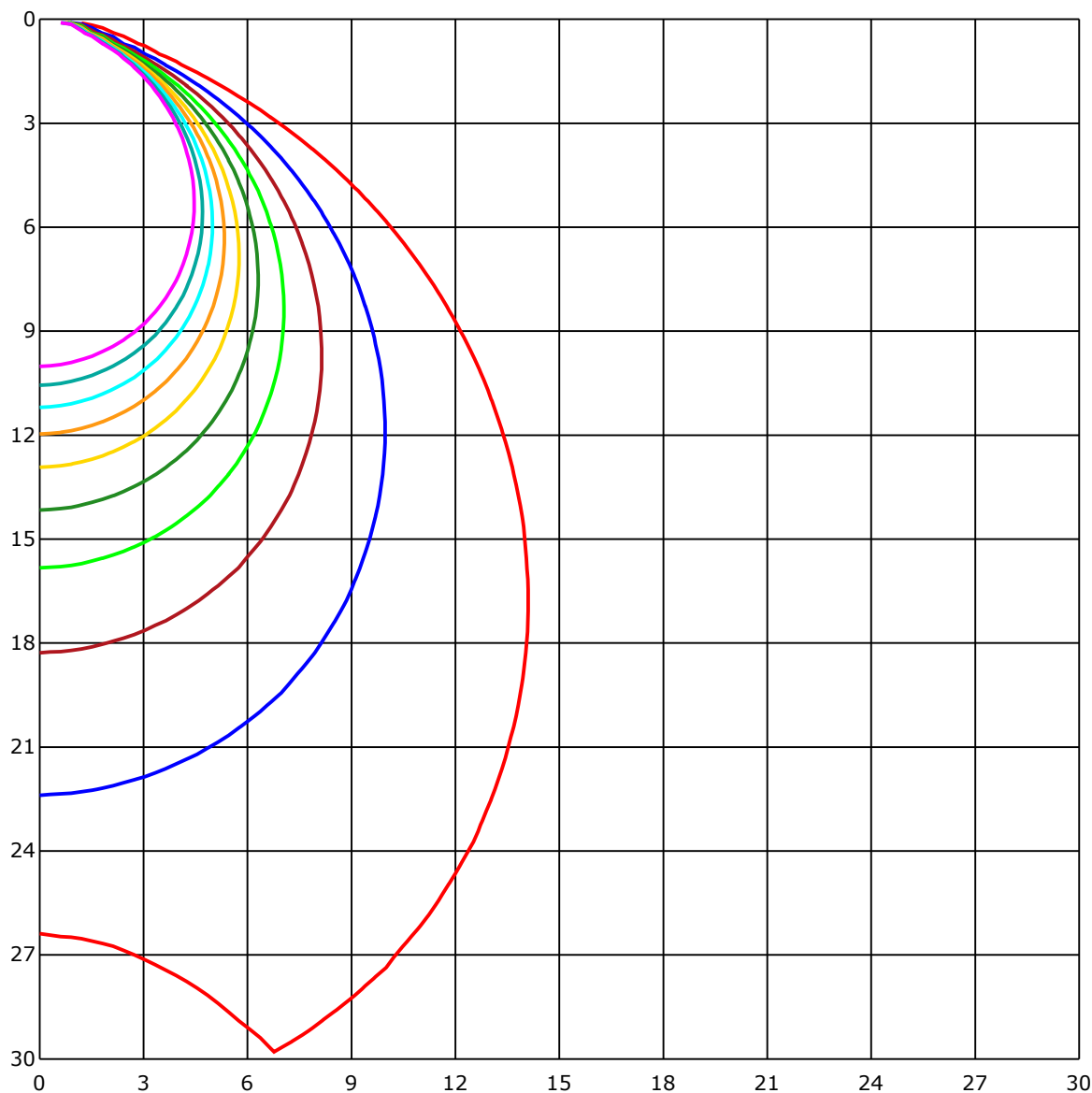
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

21.542

19.387

17.233

15.079

12.925

10.771

8.617

6.462

4.308

2.154

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/9/19 16:57:29

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	2159.87	2152.27	2152.36	2156.03	2159.87	2152.27	2152.36	2156.03	2159.87	
G1	2154.59	2151.71	2155.19	2157.37	2158.11	2151.94	2153.34	2159.64	2154.59	
G2	2154.68	2151.85	2155.47	2156.58	2161.59	2152.18	2147.31	2154.96	2154.68	
G3	2150.74	2147.96	2154.96	2156.16	2159.18	2153.01	2144.94	2158.3	2150.74	
G4	2147.26	2147.82	2153.34	2150.37	2161.03	2146.94	2140.21	2148.56	2147.26	
G5	2139.84	2143.83	2150.83	2151.29	2157.09	2142.9	2137.47	2144.01	2139.84	
G6	2131.21	2137.06	2148.93	2146.61	2153.47	2139.28	2127.64	2142.99	2131.21	
G7	2123.56	2130.94	2144.62	2136.55	2146.19	2133.3	2121.75	2137.89	2123.56	
G8	2116.56	2124.12	2139.28	2131.72	2142.48	2126.76	2111.78	2123.28	2116.56	
G9	2107.1	2116.28	2133.07	2125.83	2139.24	2115.86	2103.99	2118.0	2107.1	
G10	2095.27	2107.66	2124.58	2114.8	2129.31	2110.25	2092.3	2105.8	2095.27	
G11	2082.47	2096.71	2119.99	2107.1	2122.91	2099.21	2081.08	2103.2	2082.47	
G12	2074.5	2086.46	2107.89	2095.64	2112.66	2087.57	2067.49	2085.02	2074.5	
G13	2058.64	2081.13	2099.68	2092.3	2104.5	2077.6	2059.24	2077.74	2058.64	
G14	2046.44	2065.92	2087.62	2077.56	2096.9	2065.82	2042.68	2063.92	2046.44	
G15	2031.78	2049.87	2077.79	2062.02	2081.22	2051.59	2029.65	2053.58	2031.78	
G16	2013.42	2040.32	2064.15	2047.18	2068.93	2039.34	2011.52	2033.45	2013.42	
G17	1997.98	2025.66	2051.08	2038.88	2057.38	2023.2	1996.4	2021.3	1997.98	
G18	1981.05	2005.81	2037.3	2019.31	2043.89	2010.64	1976.92	2004.0	1981.05	
G19	1962.13	1989.49	2022.74	2007.44	2029.05	1991.58	1961.25	1987.12	1962.13	
G20	1948.26	1975.3	2005.4	1989.4	2014.53	1974.83	1939.96	1969.92	1948.26	
G21	1918.26	1956.42	1992.5	1973.58	1993.38	1956.98	1921.78	1953.18	1918.26	
G22	1897.39	1938.1	1970.34	1951.46	1976.69	1939.87	1895.44	1932.82	1897.39	
G23	1877.03	1917.47	1954.1	1931.38	1960.64	1919.46	1876.61	1913.48	1877.03	
G24	1852.4	1899.01	1933.84	1911.9	1938.75	1901.37	1848.41	1893.26	1852.4	
G25	1824.34	1880.88	1912.46	1893.03	1918.77	1882.08	1826.2	1873.41	1824.34	
G26	1799.76	1858.66	1887.6	1871.51	1896.37	1861.68	1797.77	1853.56	1799.76	
G27	1772.5	1833.94	1868.45	1847.39	1870.53	1834.78	1774.49	1829.72	1772.5	
G28	1749.68	1808.2	1840.58	1823.56	1846.33	1810.52	1743.23	1799.67	1749.68	
G29	1714.34	1784.37	1821.0	1802.78	1820.26	1785.25	1716.52	1773.79	1714.34	
G30	1686.37	1757.75	1791.51	1773.98	1795.96	1761.18	1687.91	1748.33	1686.37	
G31	1654.1	1727.51	1767.02	1748.1	1769.06	1735.02	1662.95	1720.09	1654.1	
G32	1624.51	1702.75	1736.28	1717.59	1743.28	1704.79	1625.62	1690.59	1624.51	
G33	1590.38	1670.42	1708.87	1691.48	1710.68	1674.6	1595.25	1663.37	1590.38	
G34	1560.46	1645.56	1677.56	1660.96	1686.37	1645.66	1562.32	1630.31	1560.46	
G35	1527.72	1611.48	1649.09	1629.42	1653.91	1617.46	1531.99	1603.78	1527.72	
G36	1493.87	1579.29	1618.57	1598.82	1621.87	1582.68	1496.05	1567.37	1493.87	

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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	1458.76	1549.66	1588.15	1571.78	1590.05	1553.09	1463.4	1537.32	1458.76	
G38	1423.98	1516.22	1553.83	1536.67	1559.16	1520.67	1426.67	1502.31	1423.98	
G39	1390.63	1480.23	1521.51	1503.24	1526.47	1488.35	1393.97	1470.68	1390.63	
G40	1351.77	1449.25	1489.28	1469.24	1495.12	1453.8	1358.63	1433.95	1351.77	
G41	1317.08	1411.04	1456.86	1434.41	1457.46	1416.7	1321.77	1404.32	1317.08	
G42	1276.69	1378.16	1423.24	1396.8	1423.47	1379.78	1283.78	1364.76	1276.69	
G43	1241.63	1338.83	1386.27	1361.42	1388.78	1343.79	1248.07	1326.54	1241.63	
G44	1206.57	1304.47	1350.01	1323.57	1352.28	1309.06	1210.83	1289.81	1206.57	
G45	1164.92	1266.07	1315.18	1287.45	1317.55	1269.82	1172.9	1252.25	1164.92	
G46	1125.69	1229.2	1276.6	1248.86	1279.89	1232.49	1133.34	1211.62	1125.69	
G47	1089.28	1188.34	1239.87	1213.29	1243.16	1194.93	1097.35	1173.87	1089.28	
G48	1047.31	1149.71	1202.3	1172.34	1204.99	1153.47	1055.98	1135.84	1047.31	
G49	1007.66	1110.34	1166.36	1135.84	1167.7	1114.09	1018.33	1096.98	1007.66	
G50	967.78	1071.57	1125.83	1092.9	1129.68	1078.01	977.33	1054.96	967.78	
G51	929.66	1029.46	1088.77	1053.29	1091.09	1035.53	940.41	1016.05	929.66	
G52	889.82	990.27	1048.29	1011.88	1051.76	995.93	898.86	973.62	889.82	
G53	846.6	949.41	1011.14	972.23	1014.8	952.43	858.28	932.95	846.6	
G54	804.53	907.9	971.9	929.93	974.55	912.96	816.54	890.7	804.53	
G55	765.25	865.89	931.05	888.71	934.29	869.55	778.42	850.35	765.25	
G56	724.58	824.85	889.03	846.55	896.13	832.27	737.01	809.59	724.58	
G57	682.8	782.92	851.7	805.74	855.64	787.93	696.34	767.57	682.8	
G58	642.36	743.04	809.73	765.53	816.03	747.72	655.67	726.48	642.36	
G59	602.52	701.48	769.01	725.09	775.78	706.35	617.22	687.53	602.52	
G60	563.01	661.46	728.38	683.44	737.33	667.44	574.46	645.74	563.01	
G61	520.71	621.58	688.22	644.21	694.71	627.0	534.53	606.74	520.71	
G62	482.73	583.13	645.97	603.54	654.88	588.33	493.63	567.5	482.73	
G63	442.29	541.86	605.35	563.93	615.41	550.25	453.56	529.62	442.29	
G64	403.98	502.86	563.79	524.7	574.79	511.99	414.05	489.82	403.98	
G65	364.33	464.36	524.47	486.95	536.39	473.04	374.72	451.29	364.33	
G66	326.16	426.06	483.15	447.95	497.11	435.47	335.16	413.16	326.16	
G67	289.94	388.91	442.15	410.52	456.48	398.05	298.99	376.71	289.94	
G68	255.02	353.01	401.39	373.19	416.97	363.03	262.54	340.54	255.02	
G69	220.15	318.05	363.82	337.94	376.71	327.32	227.75	304.6	220.15	
G70	187.82	284.1	325.28	303.62	337.99	293.93	194.83	270.7	187.82	
G71	158.1	251.78	288.0	270.09	300.61	260.45	164.4	239.67	158.1	
G72	130.73	222.05	252.98	237.91	263.97	229.1	136.44	208.88	130.73	
G73	107.5	191.72	218.66	208.37	229.19	198.86	112.88	180.63	107.5	

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