

Report No.:

Test Time: 2024/9/12 9:27:45

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-35.1W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

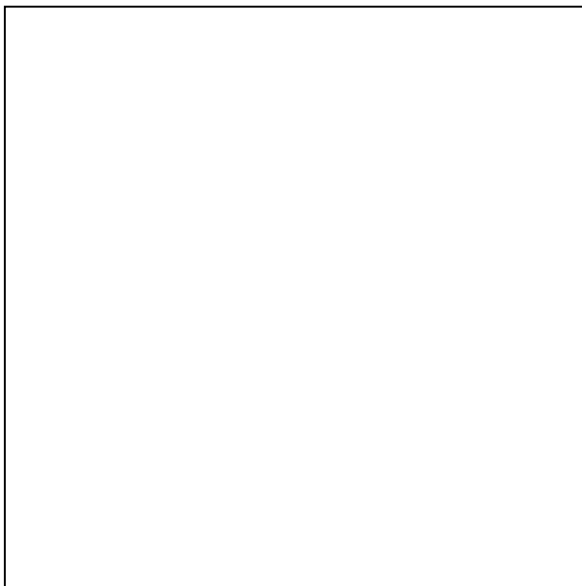
Voltage(V): 219.80 V
Current(A): 0.1640 A
Power(W): 35.05 W
Power Factor: 0.9690
Lamp Luminous Flux: 3881.41

Photometric Results

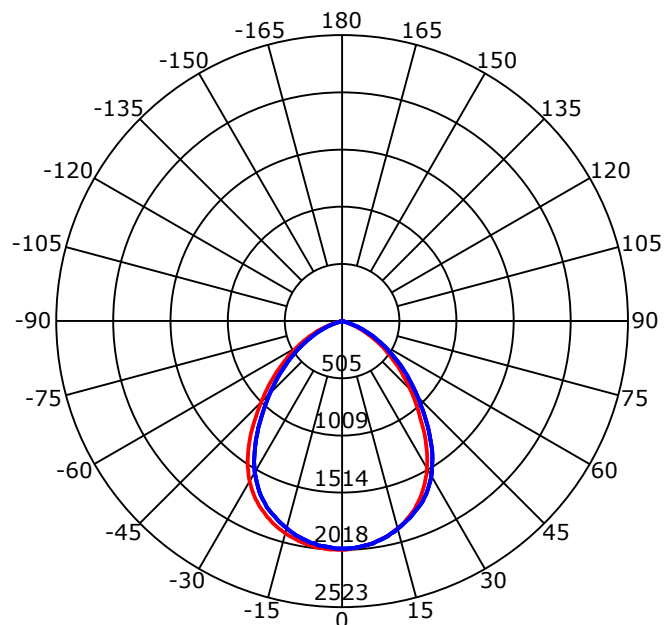
CIE Class: Direct
Luminaire Luminous Flux: 3881.411 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 110.74 lm/W
Beam Angle(50%) C0-180,C90-270: 86.0,85.9
Field Angle(10%) C0-180,C90-270: 134.5,134.3
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 2018.10 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2016.94 cd
Effective Luminous Flux: 3776.08 lm
ERP(ϕ use)(120deg): 3568.24 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 86.0 deg,85.9 deg

C0-180 — C90-270 —

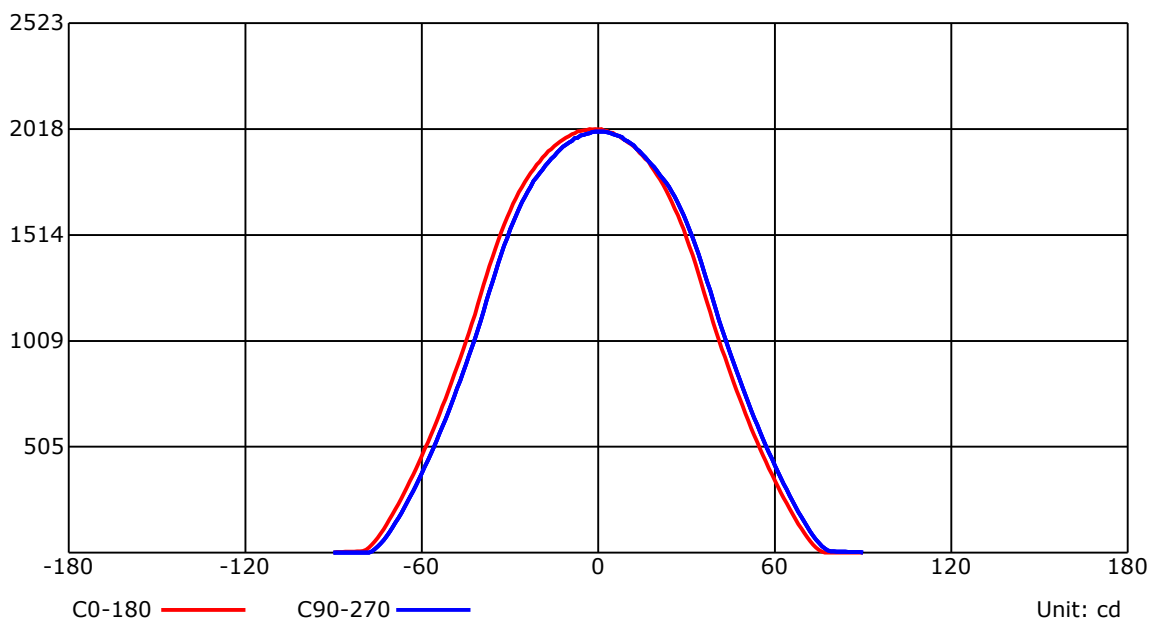
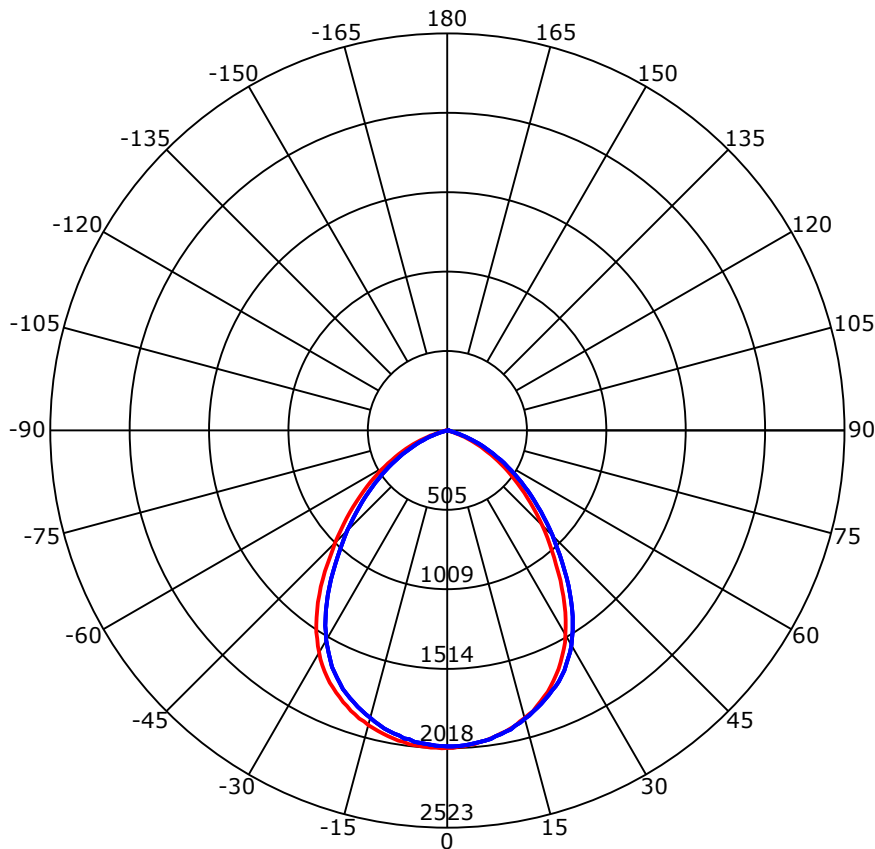
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:27:45

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



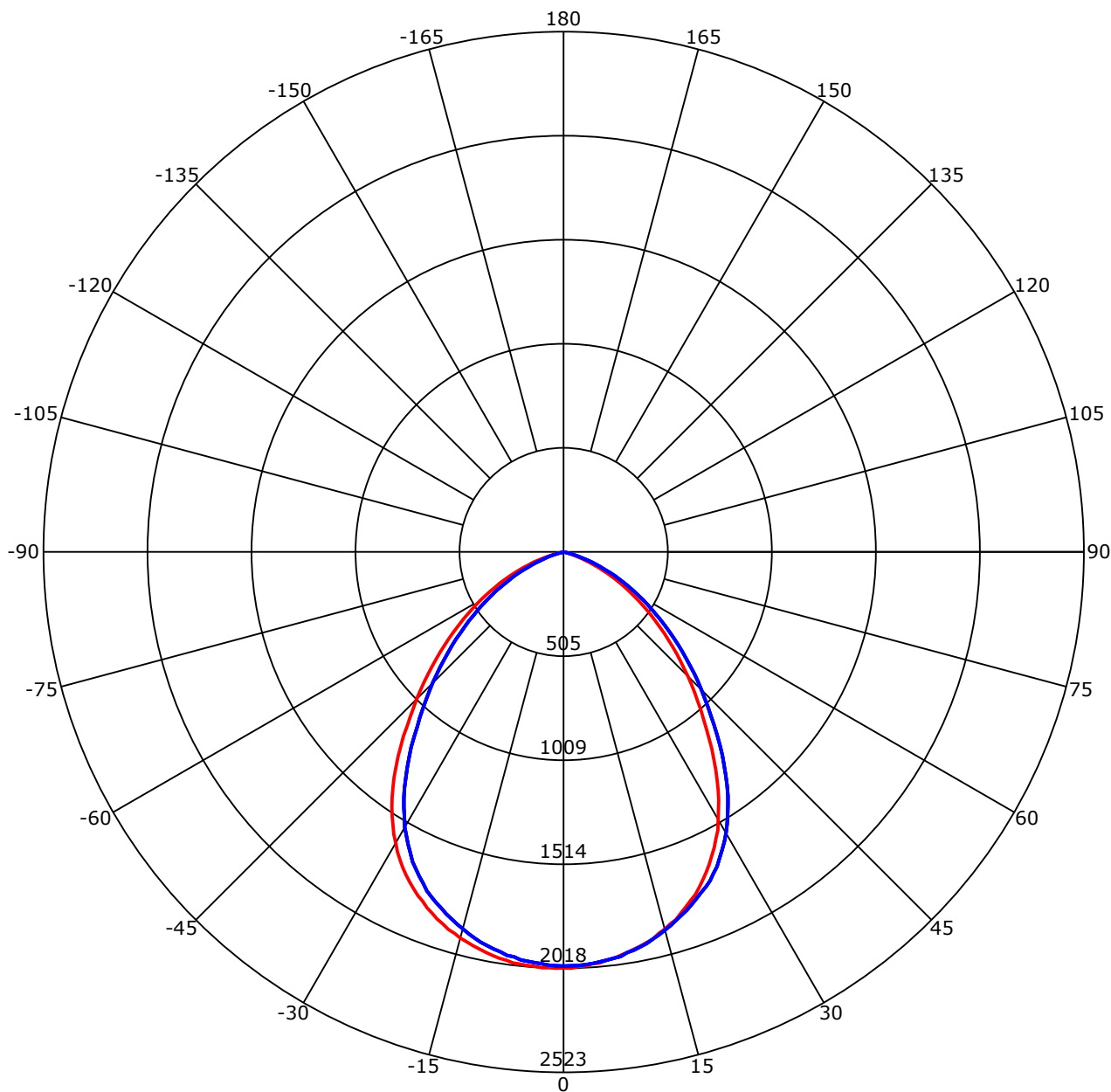
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

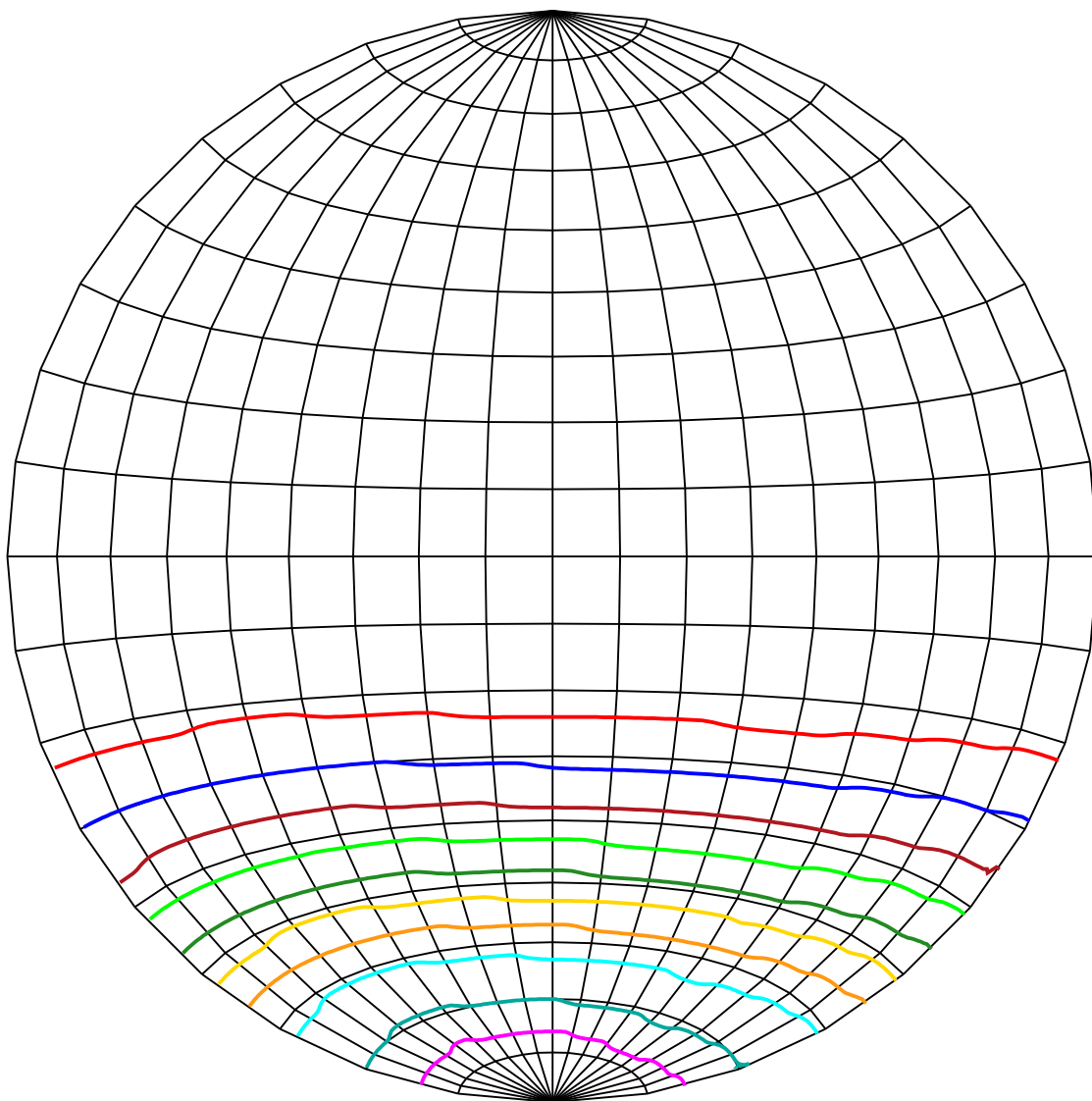
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2018.102 cd

1917.197(95%Imax)	1009.051(50%Imax)
1816.292(90%Imax)	807.241(40%Imax)
1614.482(80%Imax)	605.431(30%Imax)
1412.671(70%Imax)	403.62(20%Imax)
1210.861(60%Imax)	201.81(10%Imax)

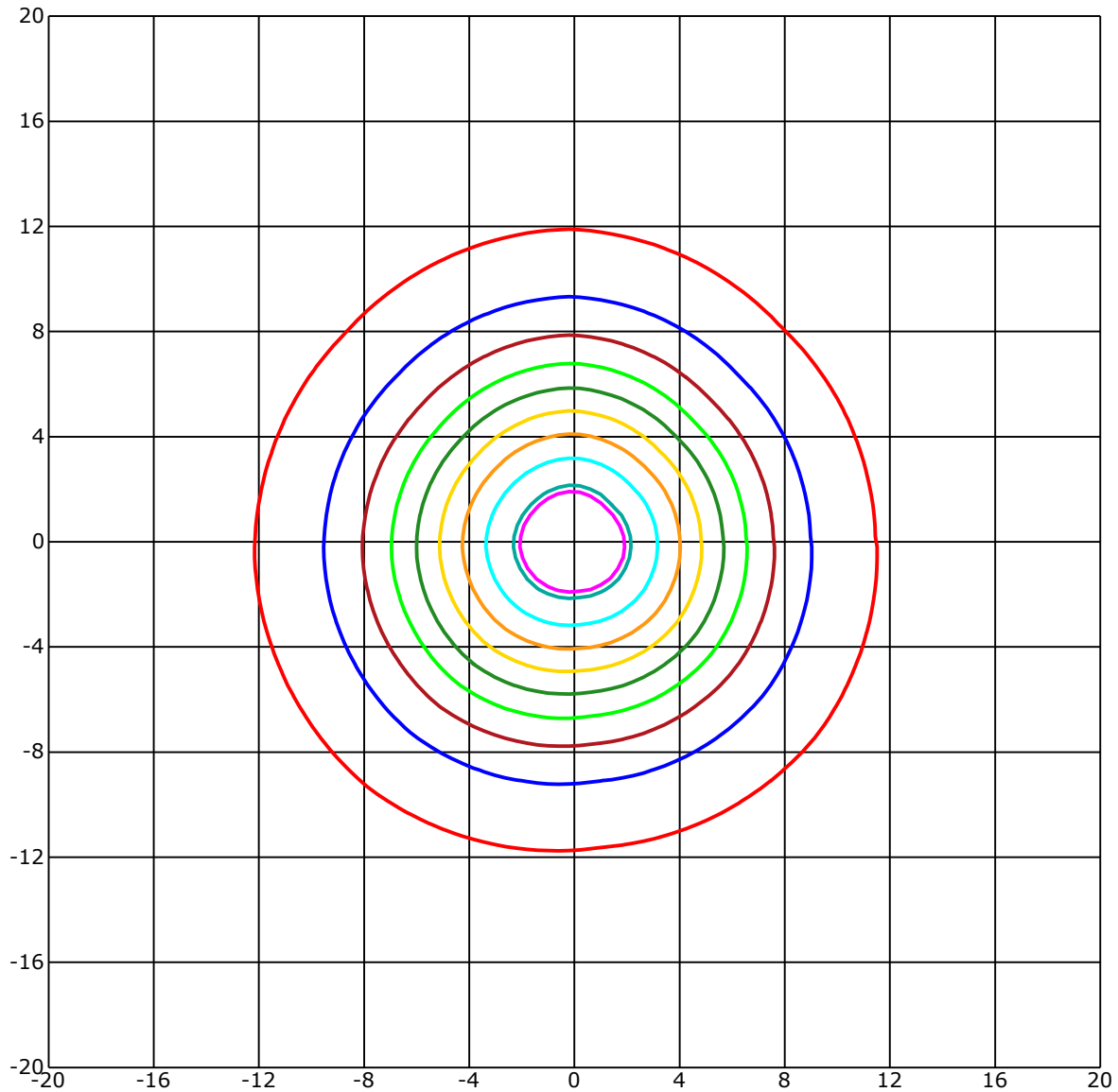
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ISOLX DIAGRAM



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

18.558(92%Emax)	10.086(50%Emax)
18.155(90%Emax)	8.069(40%Emax)
16.137(80%Emax)	6.052(30%Emax)
14.12(70%Emax)	4.034(20%Emax)
12.103(60%Emax)	2.017(10%Emax)

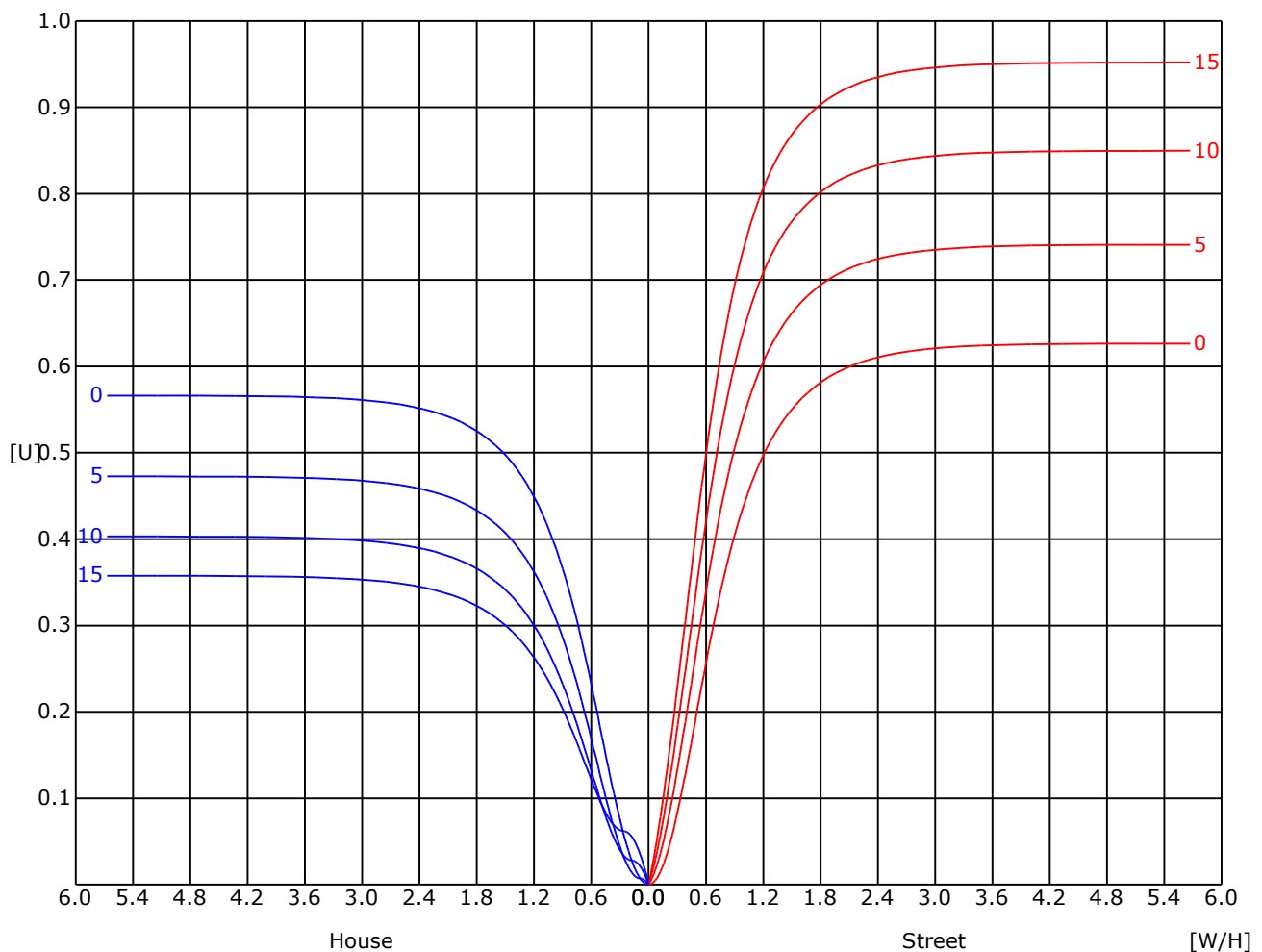
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UTILIZATION FACTOR DIAGRAM (ROAD)



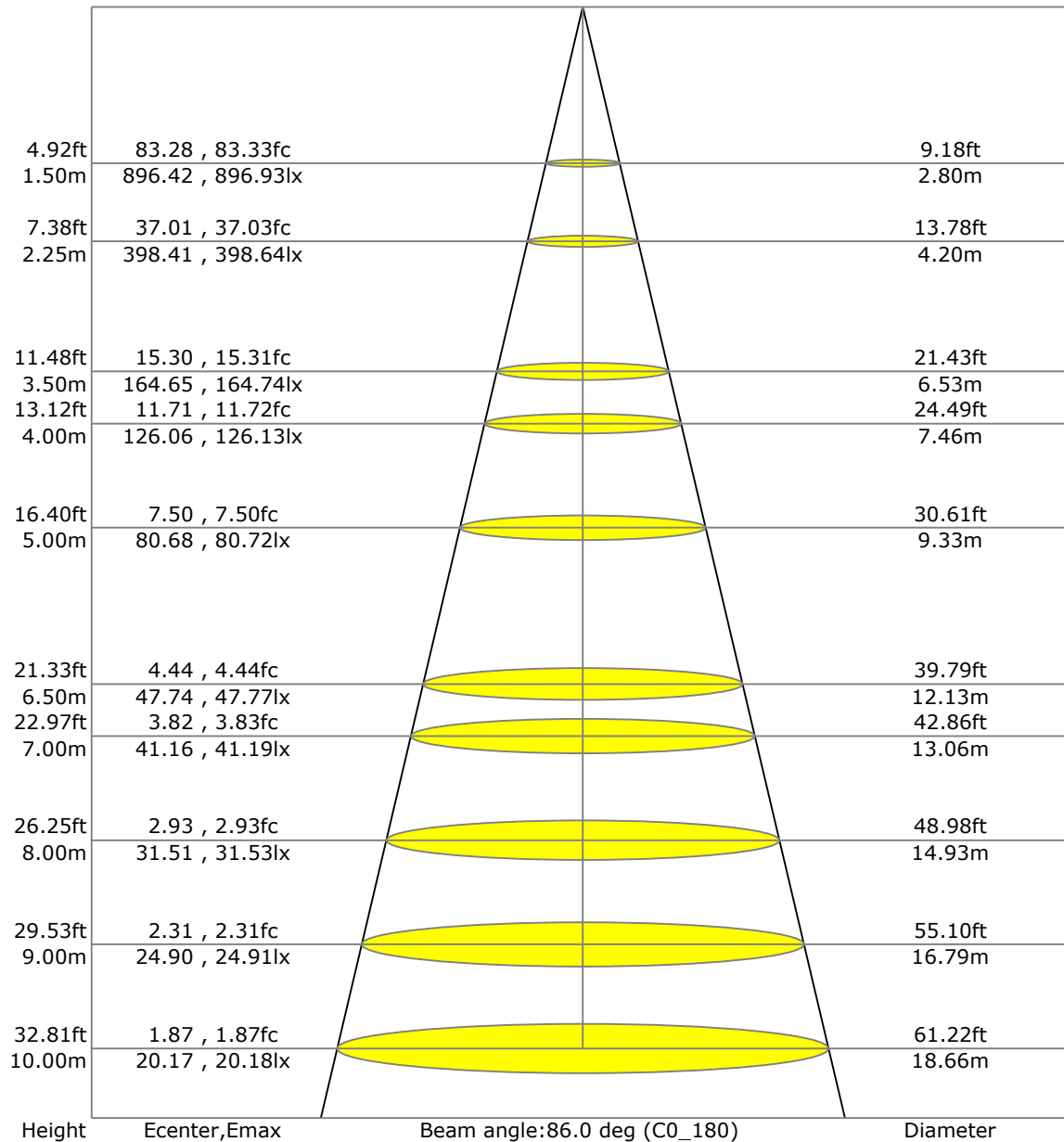
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.81 m
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LX-DISTANCE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



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/9/12 9:27:45

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	16.08	16.14	16.28	16.33	16.57	16.33	16.39	16.53	16.58	16.82
3H	16.08	16.15	16.29	16.34	16.59	16.32	16.38	16.53	16.58	16.82
4H	16.06	16.12	16.27	16.32	16.57	16.30	16.36	16.51	16.56	16.80
6H	16.04	16.10	16.25	16.30	16.55	16.27	16.33	16.49	16.53	16.78
8H	16.02	16.08	16.24	16.29	16.54	16.26	16.32	16.48	16.52	16.77
12H	16.01	16.07	16.23	16.27	16.53	16.24	16.30	16.47	16.51	16.76
4H 2H	16.54	16.60	16.75	16.79	17.04	16.98	17.04	17.19	17.24	17.49
3H	16.54	16.60	16.76	16.80	17.06	16.97	17.03	17.19	17.23	17.49
4H	16.51	16.57	16.74	16.78	17.04	16.94	16.99	17.17	17.21	17.47
6H	16.48	16.53	16.72	16.75	17.02	16.91	16.96	17.14	17.18	17.44
8H	16.46	16.51	16.71	16.74	17.01	16.89	16.94	17.13	17.17	17.43
12H	16.44	16.49	16.69	16.72	16.99	16.87	16.92	17.12	17.15	17.42
8H 4H	16.50	16.56	16.72	16.76	17.01	16.94	17.00	17.16	17.21	17.46
6H	16.43	16.47	16.68	16.71	16.98	16.86	16.90	17.11	17.14	17.41
8H	16.41	16.45	16.67	16.69	16.97	16.84	16.88	17.10	17.13	17.40
12H	16.39	16.42	16.65	16.68	16.96	16.82	16.86	17.09	17.11	17.39
12H 4H	16.44	16.49	16.69	16.72	16.99	16.88	16.93	17.13	17.16	17.43
6H	16.41	16.45	16.67	16.69	16.97	16.84	16.88	17.10	17.13	17.40

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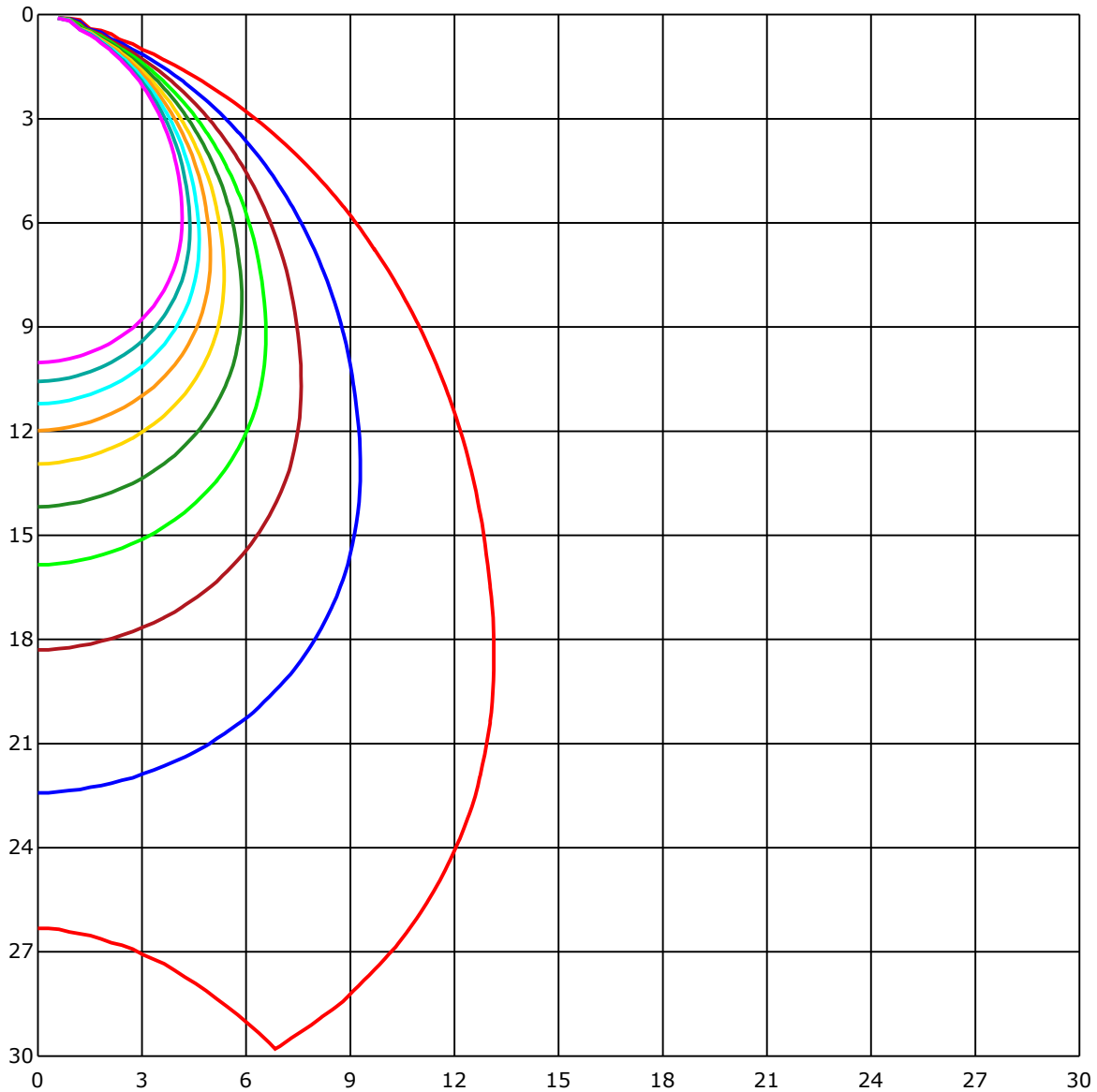
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



20.072	10.036
18.064	8.029
16.057	6.021
14.05	4.014
12.043	2.007

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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	2016.94	1998.25	2006.65	2010.03	2016.94	1998.25	2006.65	2010.03	2016.94	
G1	2017.69	1994.08	2006.42	2012.12	2018.1	2001.36	2005.86	2011.19	2017.69	
G2	2010.45	1994.59	2005.3	2007.62	2016.85	2000.76	2004.05	2009.89	2010.45	
G3	2009.43	1985.87	2003.03	2007.81	2017.45	2000.48	1998.39	2007.44	2009.43	
G4	2001.5	1982.95	2000.02	2001.08	2014.07	2002.15	1996.07	2005.72	2001.5	
G5	2000.11	1974.97	1994.5	1999.27	2012.77	1995.75	1991.3	2001.45	2000.11	
G6	1989.07	1967.65	1989.16	1990.97	2009.11	1995.38	1988.05	1995.98	1989.07	
G7	1985.64	1958.05	1984.25	1985.87	2007.2	1989.91	1976.92	1989.86	1985.64	
G8	1974.18	1950.58	1979.89	1979.75	1997.7	1987.73	1975.11	1979.8	1974.18	
G9	1966.49	1940.65	1966.16	1978.31	1994.08	1977.57	1962.41	1976.04	1966.49	
G10	1955.12	1931.52	1959.9	1964.77	1985.41	1973.63	1954.2	1962.87	1955.12	
G11	1946.96	1917.47	1949.84	1951.78	1977.15	1962.82	1943.72	1957.07	1946.96	
G12	1935.6	1909.21	1940.28	1937.78	1968.11	1955.54	1934.07	1942.23	1935.6	
G13	1924.33	1893.21	1924.38	1925.35	1958.32	1947.61	1920.34	1932.03	1924.33	
G14	1905.5	1879.02	1912.74	1912.18	1947.66	1935.65	1907.12	1919.23	1905.5	
G15	1892.79	1862.84	1897.15	1900.72	1937.59	1924.14	1890.61	1906.89	1892.79	
G16	1875.73	1847.95	1883.33	1885.28	1922.52	1915.89	1876.93	1892.52	1875.73	
G17	1864.13	1828.98	1866.17	1875.64	1913.25	1897.01	1859.91	1878.88	1864.13	
G18	1840.25	1811.22	1850.64	1853.24	1895.81	1883.8	1844.24	1859.82	1840.25	
G19	1819.66	1789.52	1836.08	1833.11	1882.59	1867.01	1824.95	1843.91	1819.66	
G20	1798.56	1770.78	1817.71	1814.0	1863.35	1854.63	1808.02	1823.14	1798.56	
G21	1779.03	1745.5	1799.16	1795.96	1848.41	1838.26	1789.98	1805.61	1779.03	
G22	1753.34	1722.22	1780.1	1778.25	1826.06	1817.34	1771.57	1784.32	1753.34	
G23	1727.09	1697.69	1763.64	1757.89	1809.09	1799.44	1744.44	1763.54	1727.09	
G24	1699.73	1670.14	1744.25	1734.51	1787.2	1783.35	1720.6	1738.13	1699.73	
G25	1670.47	1639.58	1718.93	1715.08	1766.47	1761.13	1695.56	1714.9	1670.47	
G26	1638.65	1608.74	1696.25	1685.26	1742.81	1741.7	1670.33	1685.08	1638.65	
G27	1607.63	1575.21	1665.37	1657.25	1717.59	1715.45	1637.08	1658.55	1607.63	
G28	1573.59	1540.99	1636.52	1629.56	1689.48	1692.26	1605.49	1629.15	1573.59	
G29	1541.4	1505.51	1607.26	1601.65	1662.4	1662.03	1572.38	1595.57	1541.4	
G30	1498.78	1469.61	1574.19	1561.58	1629.05	1633.46	1540.2	1558.61	1498.78	
G31	1458.34	1427.83	1538.99	1524.57	1598.12	1601.92	1499.62	1524.29	1458.34	
G32	1418.18	1387.71	1500.78	1488.4	1561.53	1568.12	1462.47	1483.57	1418.18	
G33	1376.58	1343.15	1463.58	1451.25	1527.77	1531.76	1422.08	1449.76	1376.58	
G34	1330.02	1300.57	1425.28	1407.33	1488.81	1497.02	1380.57	1401.95	1330.02	
G35	1284.57	1257.67	1382.24	1367.03	1449.02	1455.65	1334.98	1361.0	1284.57	
G36	1238.01	1210.6	1336.65	1322.69	1407.84	1416.51	1291.3	1314.25	1238.01	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1193.3	1162.09	1292.22	1276.09	1366.05	1372.27	1244.22	1269.96	1193.3	
G38	1145.07	1117.25	1250.07	1227.99	1319.68	1328.4	1200.12	1221.73	1145.07	
G39	1097.72	1071.98	1202.76	1182.31	1276.87	1283.74	1150.96	1176.47	1097.72	
G40	1053.99	1030.29	1156.57	1135.43	1229.15	1239.49	1104.86	1131.67	1053.99	
G41	1013.41	986.79	1109.83	1089.89	1184.49	1191.45	1062.15	1088.4	1013.41	
G42	970.05	946.81	1067.3	1047.64	1134.04	1144.15	1019.86	1045.5	970.05	
G43	931.6	905.77	1024.49	1005.39	1091.18	1097.07	976.26	1006.22	931.6	
G44	890.56	868.49	982.8	965.41	1047.17	1053.43	937.96	963.88	890.56	
G45	852.11	830.6	943.61	924.0	1006.5	1012.39	897.28	924.04	852.11	
G46	812.09	790.94	905.26	886.34	965.55	971.07	858.89	885.88	812.09	
G47	774.34	752.13	866.35	846.69	925.76	930.95	819.88	848.13	774.34	
G48	735.39	715.17	826.19	809.12	885.74	891.02	782.32	807.32	735.39	
G49	700.28	678.76	787.51	769.19	847.71	852.49	743.5	769.05	700.28	
G50	662.67	643.7	751.01	731.07	808.01	814.97	706.4	731.58	662.67	
G51	628.44	608.73	713.73	694.39	770.59	776.01	669.9	694.53	628.44	
G52	592.87	575.71	677.79	659.19	732.51	739.65	634.52	660.16	592.87	
G53	559.62	543.2	642.68	623.39	697.45	701.3	600.48	625.34	559.62	
G54	527.11	510.65	608.22	589.07	659.47	665.73	567.18	591.11	527.11	
G55	493.63	477.67	574.28	555.26	624.55	630.95	532.68	559.67	493.63	
G56	462.32	447.02	541.07	524.42	591.3	596.72	500.77	524.65	462.32	
G57	433.89	417.43	508.65	491.4	558.23	563.1	469.98	494.65	433.89	
G58	402.27	388.12	477.95	459.68	524.65	531.05	439.27	462.6	402.27	
G59	372.63	358.12	447.2	428.89	494.23	498.22	408.53	431.44	372.63	
G60	344.06	330.24	415.76	398.97	460.75	467.75	379.36	401.94	344.06	
G61	316.42	301.91	386.45	368.83	430.56	436.21	350.14	372.86	316.42	
G62	287.9	274.36	356.96	339.57	399.67	406.16	320.74	343.74	287.9	
G63	261.65	247.88	327.93	311.65	370.45	377.04	292.96	315.31	261.65	
G64	235.45	222.7	300.98	283.45	342.49	348.38	265.69	288.0	235.45	
G65	209.43	197.19	272.65	256.51	313.64	319.76	239.53	261.56	209.43	
G66	184.62	172.7	245.24	230.81	284.93	291.98	214.16	234.71	184.62	
G67	159.95	148.73	219.31	205.31	258.45	264.25	188.33	208.51	159.95	
G68	135.93	125.86	194.04	180.87	232.72	238.14	164.45	183.05	135.93	
G69	114.32	104.76	169.41	157.63	206.98	212.31	141.82	159.63	114.32	
G70	92.84	84.31	146.27	134.68	182.63	187.22	119.46	135.51	92.84	
G71	73.09	65.16	123.69	112.97	158.28	163.24	98.32	113.2	73.09	
G72	54.96	47.67	101.8	91.92	134.49	139.5	78.51	91.87	54.96	
G73	38.45	32.28	81.53	71.93	112.46	117.01	59.96	72.21	38.45	

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[illegible]

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