

Report No.:

Test Time: 2024/9/19 15:27:28

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT095H107-60°-15.4W
Lamp Type:
Luminous Width: 88 mm
Luminous Length: 88 mm
Luminous Height: 82 mm

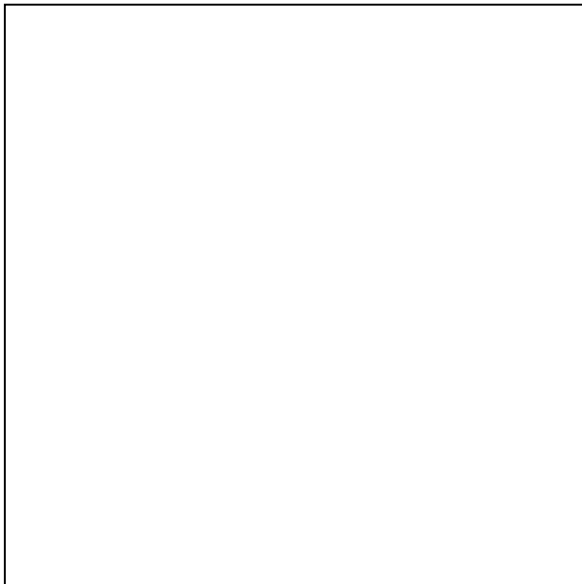
Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.38 W
Power Factor: 0.9470
Lamp Luminous Flux: 1410.84

Photometric Results

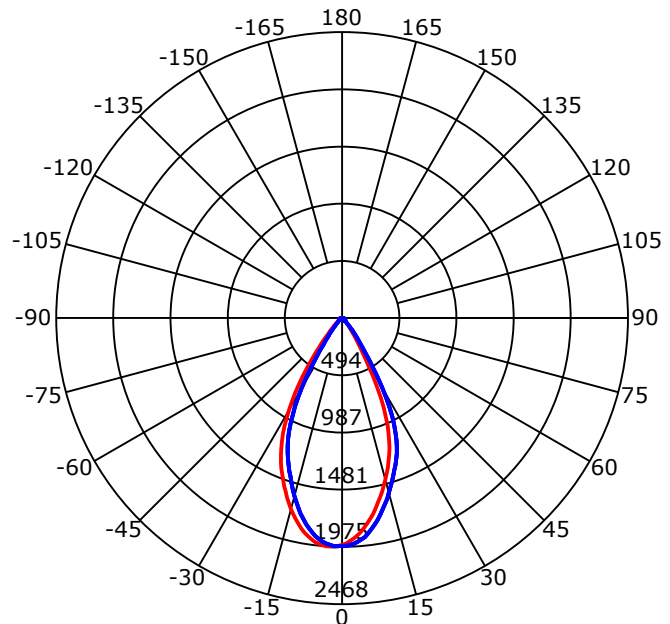
CIE Class: Direct
Luminaire Luminous Flux: 1410.835 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.73 lm/W
Beam Angle(50%) C0-180,C90-270: 52.2,53.0
Field Angle(10%) C0-180,C90-270: 75.9,74.9
S/MH C0-180,C90-270: 0.808,0.849

Max. Intensity: 1974.65 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1956.98 cd
Effective Luminous Flux: 1283.92 lm
ERP(ϕ use)(120deg): 1385.28 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 52.2 deg,53.0 deg

C0-180 — C90-270 —

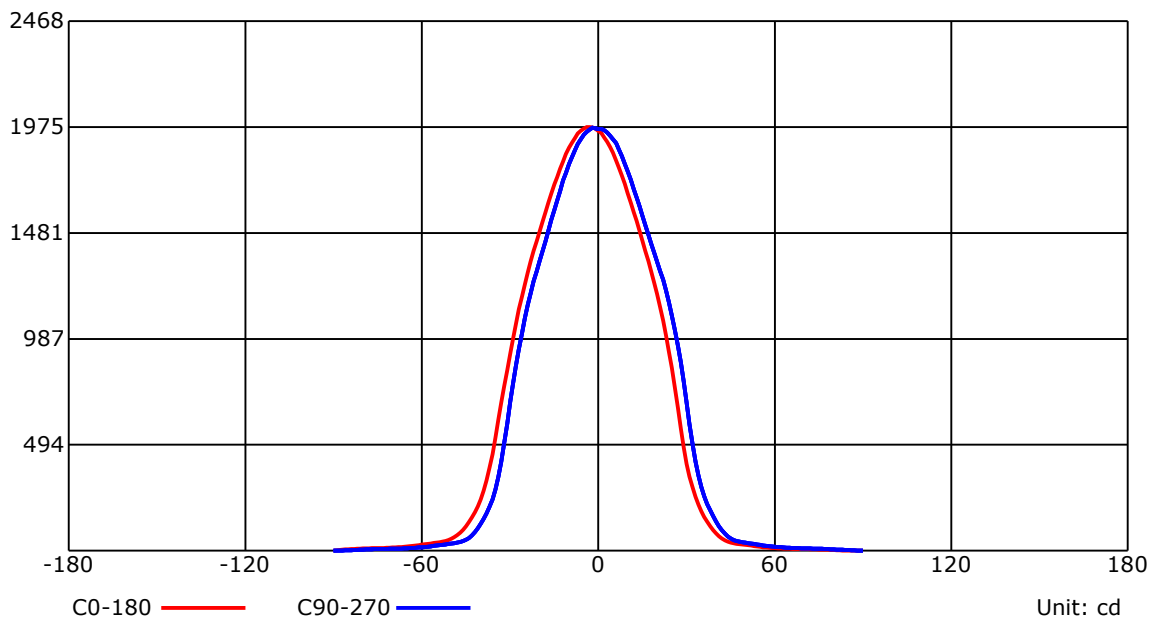
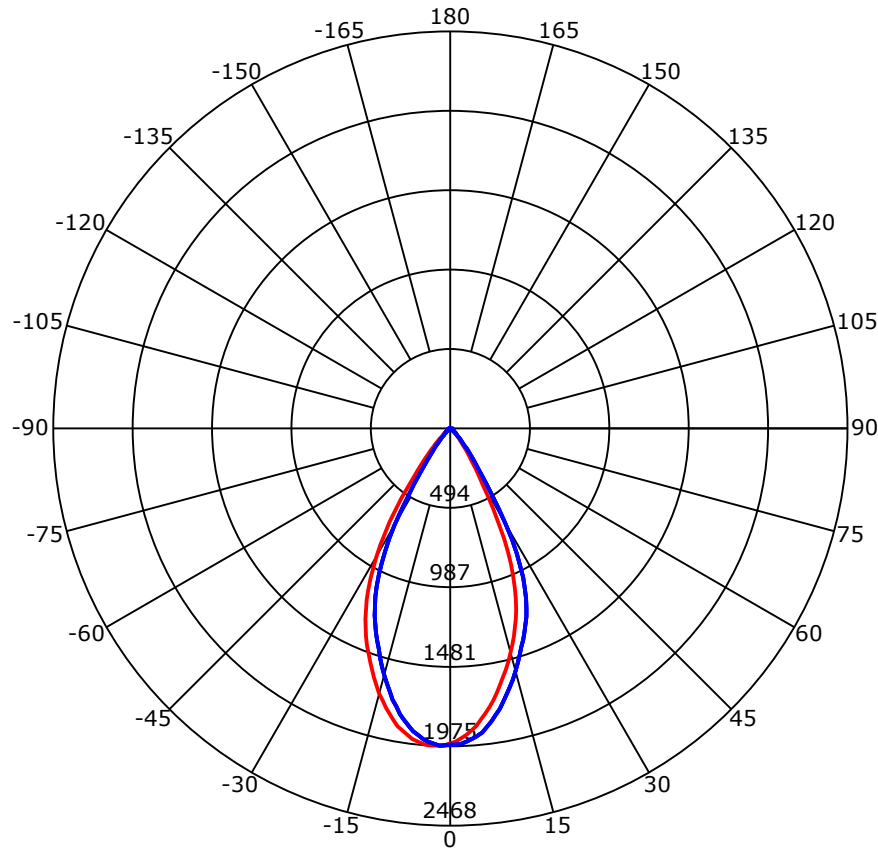
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/19 15:27:28

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



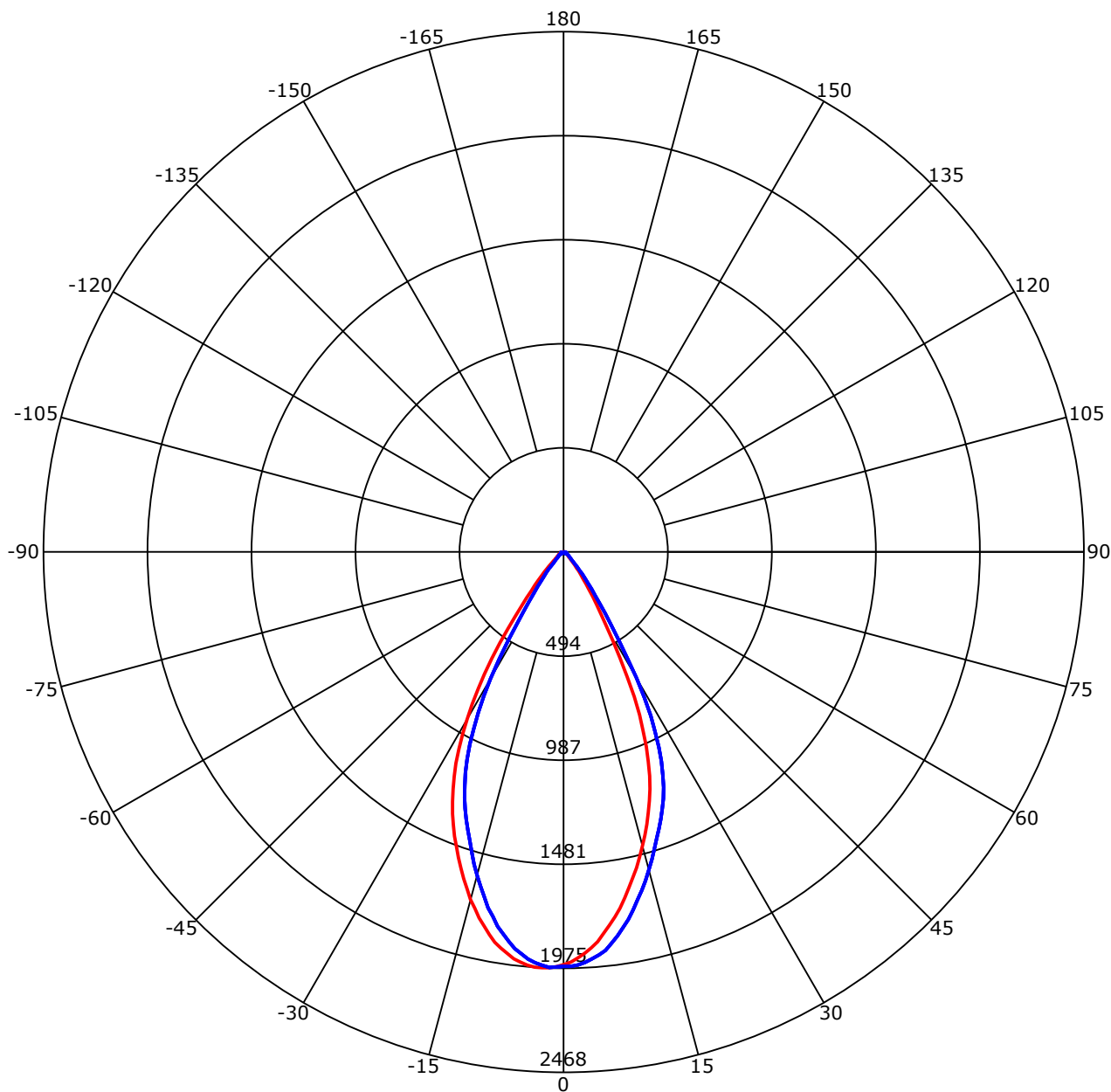
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

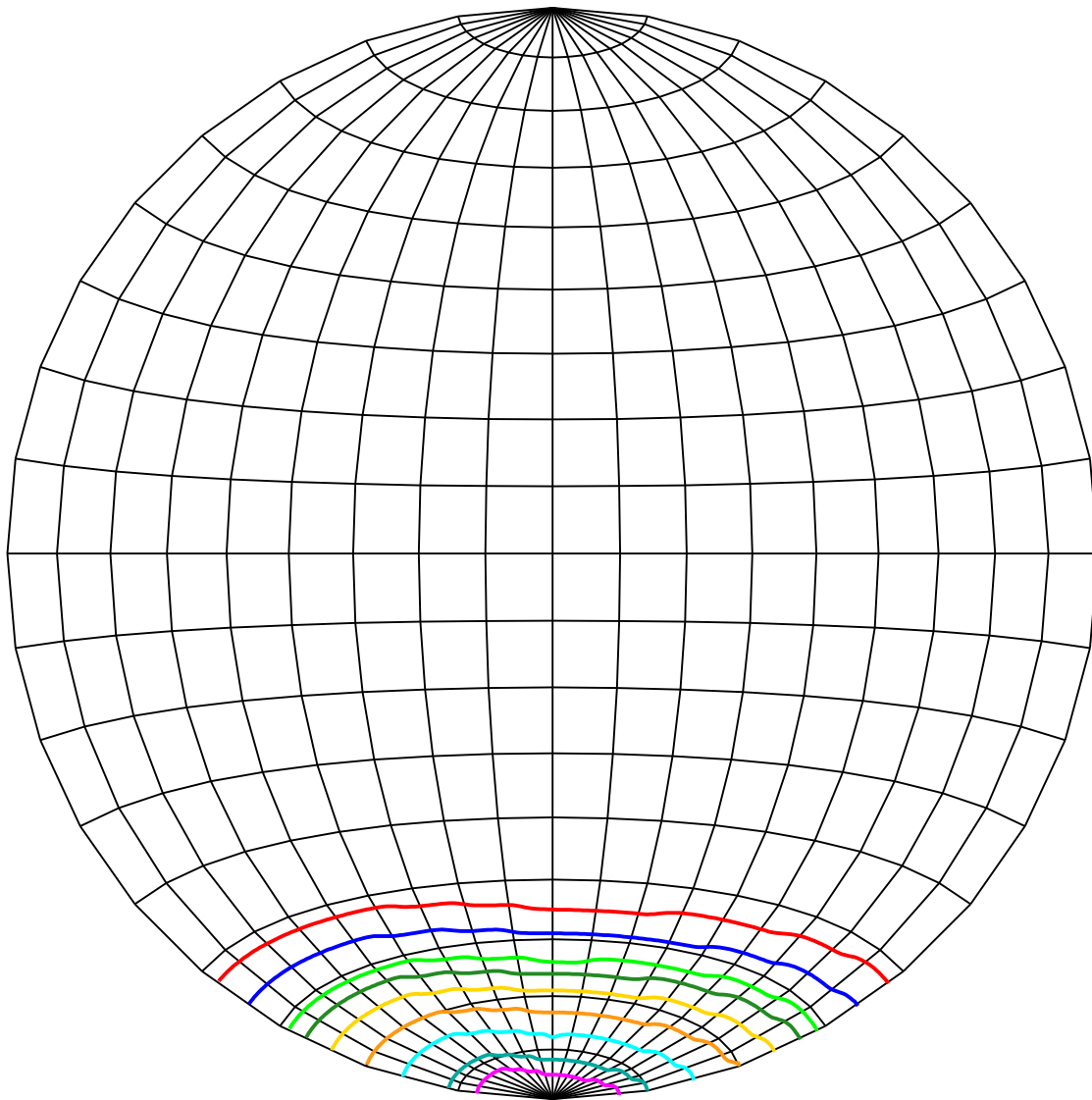
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 1974.648 cd

1875.915(95%I _{max})	987.324(50%I _{max})
1777.183(90%I _{max})	789.859(40%I _{max})
1579.718(80%I _{max})	592.394(30%I _{max})
1382.253(70%I _{max})	394.93(20%I _{max})
1184.789(60%I _{max})	197.465(10%I _{max})

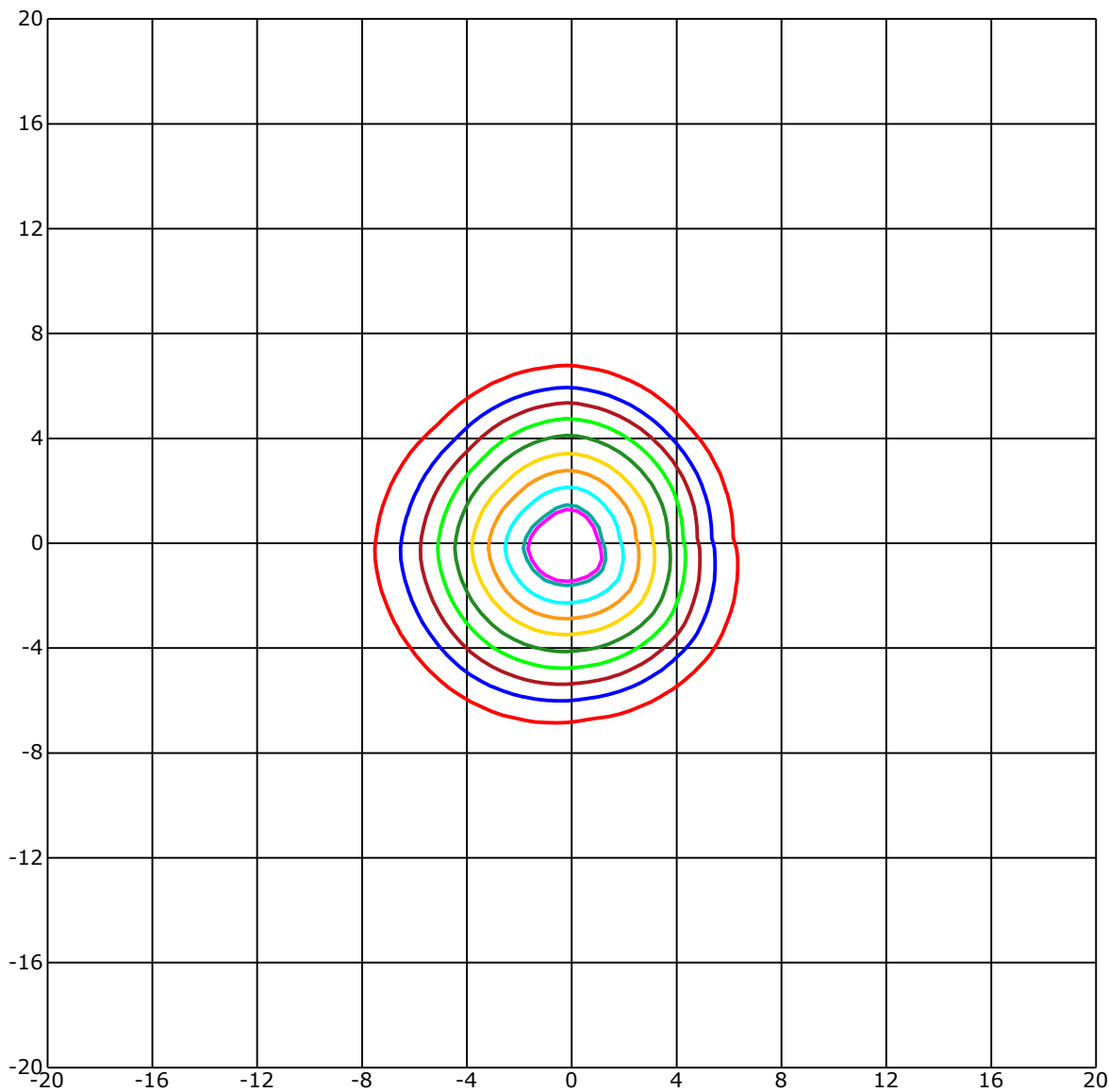
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ISOLX DIAGRAM



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

- | | |
|-----------------|----------------|
| 18.12(92%Emax) | 9.848(50%Emax) |
| 17.726(90%Emax) | 7.878(40%Emax) |
| 15.756(80%Emax) | 5.909(30%Emax) |
| 13.787(70%Emax) | 3.939(20%Emax) |
| 11.817(60%Emax) | 1.97(10%Emax) |

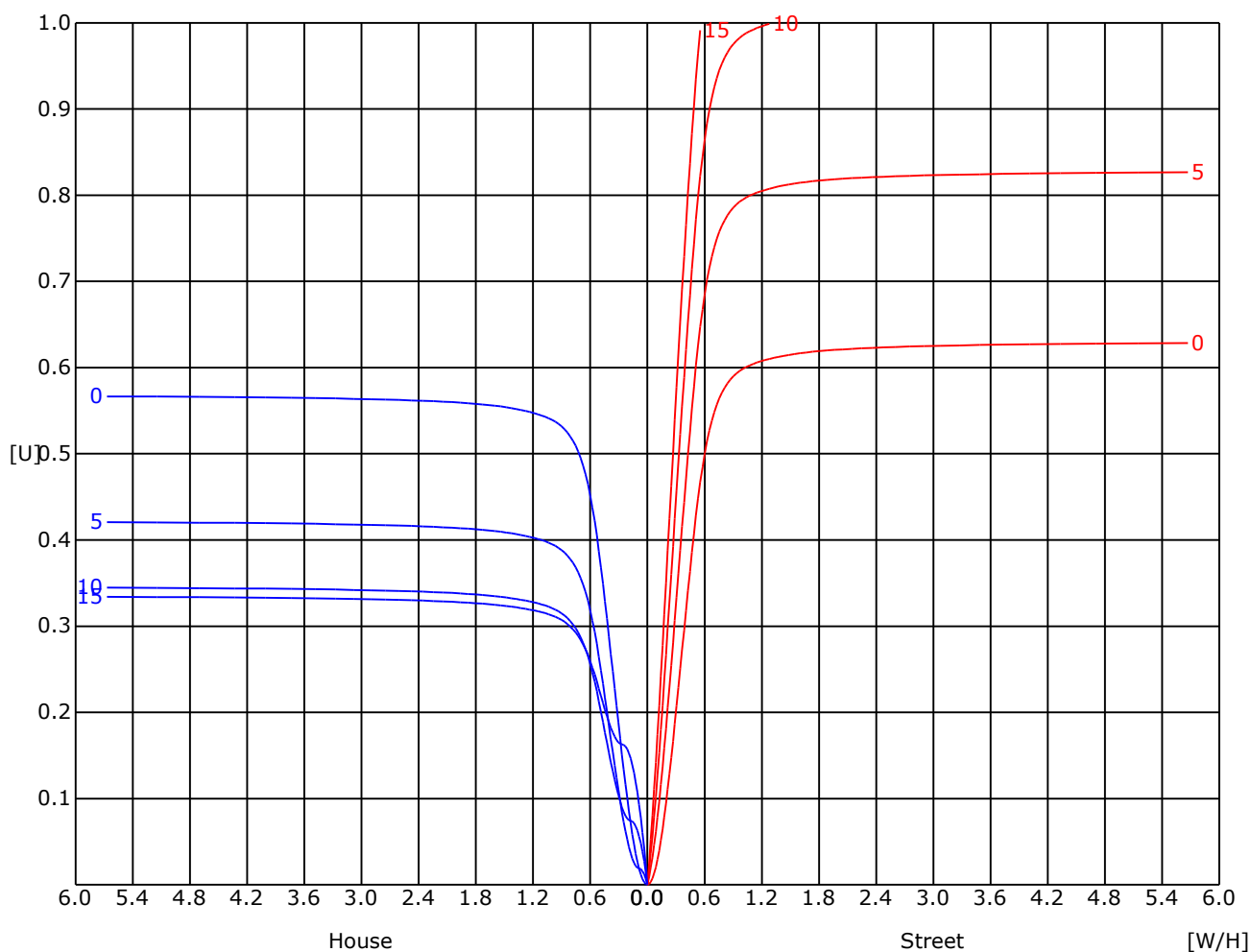
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UTILIZATION FACTOR DIAGRAM (ROAD)



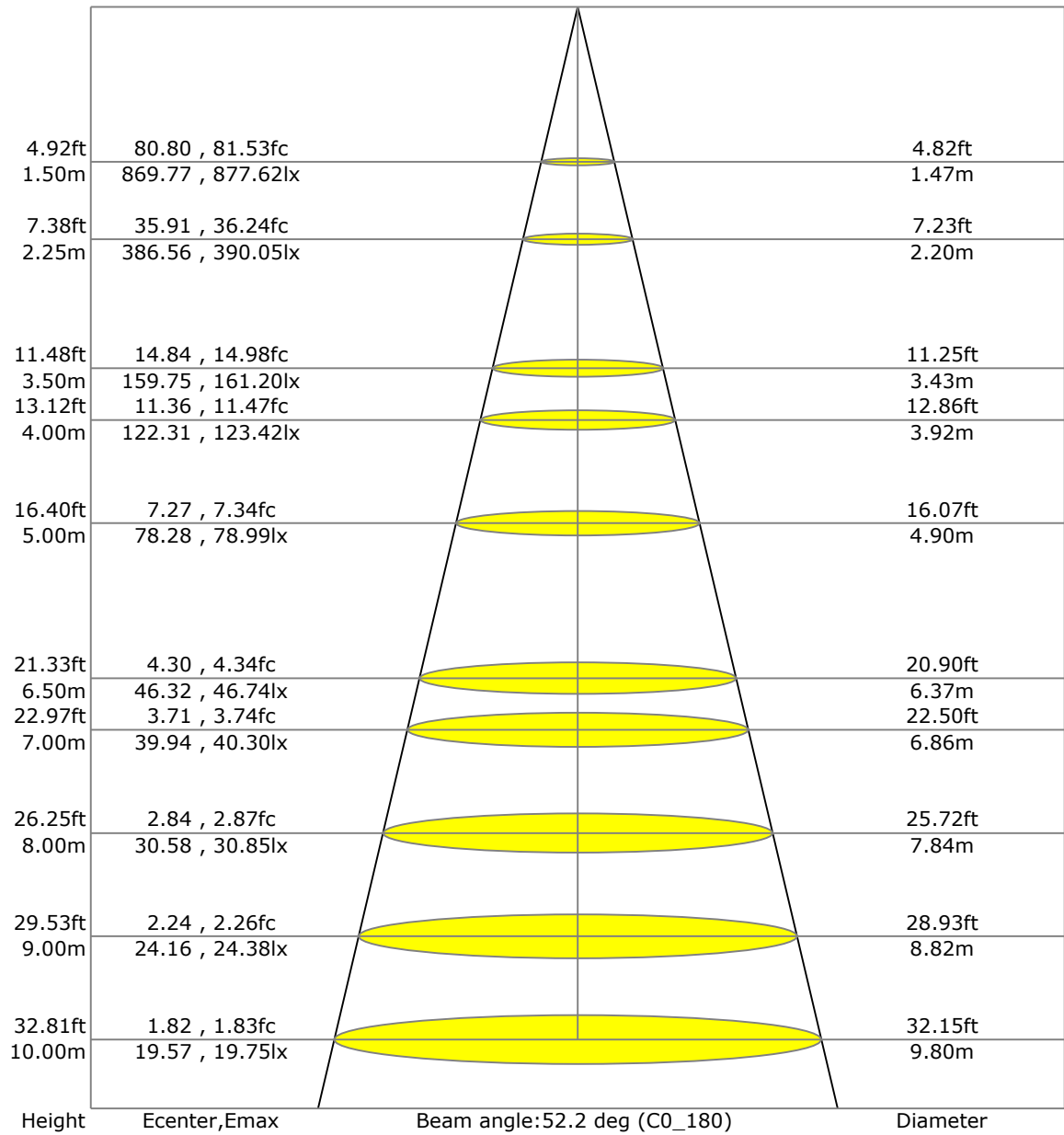
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LX-DISTANCE DIAGRAM



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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	9.11	9.16	9.31	9.35	9.59	9.29	9.34	9.49	9.53	9.77
3H	9.11	9.16	9.32	9.36	9.60	9.28	9.34	9.49	9.53	9.77
4H	9.11	9.16	9.32	9.35	9.60	9.27	9.33	9.48	9.52	9.77
6H	9.09	9.14	9.31	9.34	9.59	9.26	9.31	9.47	9.51	9.76
8H	9.08	9.13	9.30	9.34	9.59	9.25	9.30	9.47	9.50	9.76
12H	9.07	9.12	9.29	9.33	9.58	9.24	9.29	9.46	9.50	9.75
4H 2H	9.42	9.47	9.63	9.66	9.91	9.79	9.84	10.00	10.04	10.29
3H	9.47	9.52	9.69	9.73	9.98	9.84	9.90	10.07	10.10	10.36
4H	9.48	9.53	9.71	9.75	10.01	9.85	9.90	10.08	10.11	10.37
6H	9.48	9.53	9.72	9.75	10.01	9.83	9.88	10.07	10.10	10.37
8H	9.47	9.52	9.71	9.74	10.01	9.82	9.87	10.06	10.10	10.36
12H	9.46	9.50	9.71	9.74	10.01	9.81	9.86	10.06	10.09	10.36
8H 4H	9.50	9.55	9.72	9.76	10.01	10.06	10.11	10.28	10.31	10.57
6H	9.62	9.67	9.88	9.90	10.18	10.21	10.25	10.46	10.49	10.76
8H	9.61	9.66	9.88	9.90	10.18	10.19	10.24	10.45	10.48	10.76
12H	9.60	9.64	9.87	9.89	10.18	10.18	10.22	10.45	10.47	10.75
12H 4H	9.61	9.65	9.86	9.89	10.16	10.29	10.33	10.54	10.57	10.83
6H	9.61	9.65	9.87	9.90	10.17	10.29	10.34	10.56	10.58	10.86

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ZONAL LUMINOUS FLUX TABLE

[illegible]

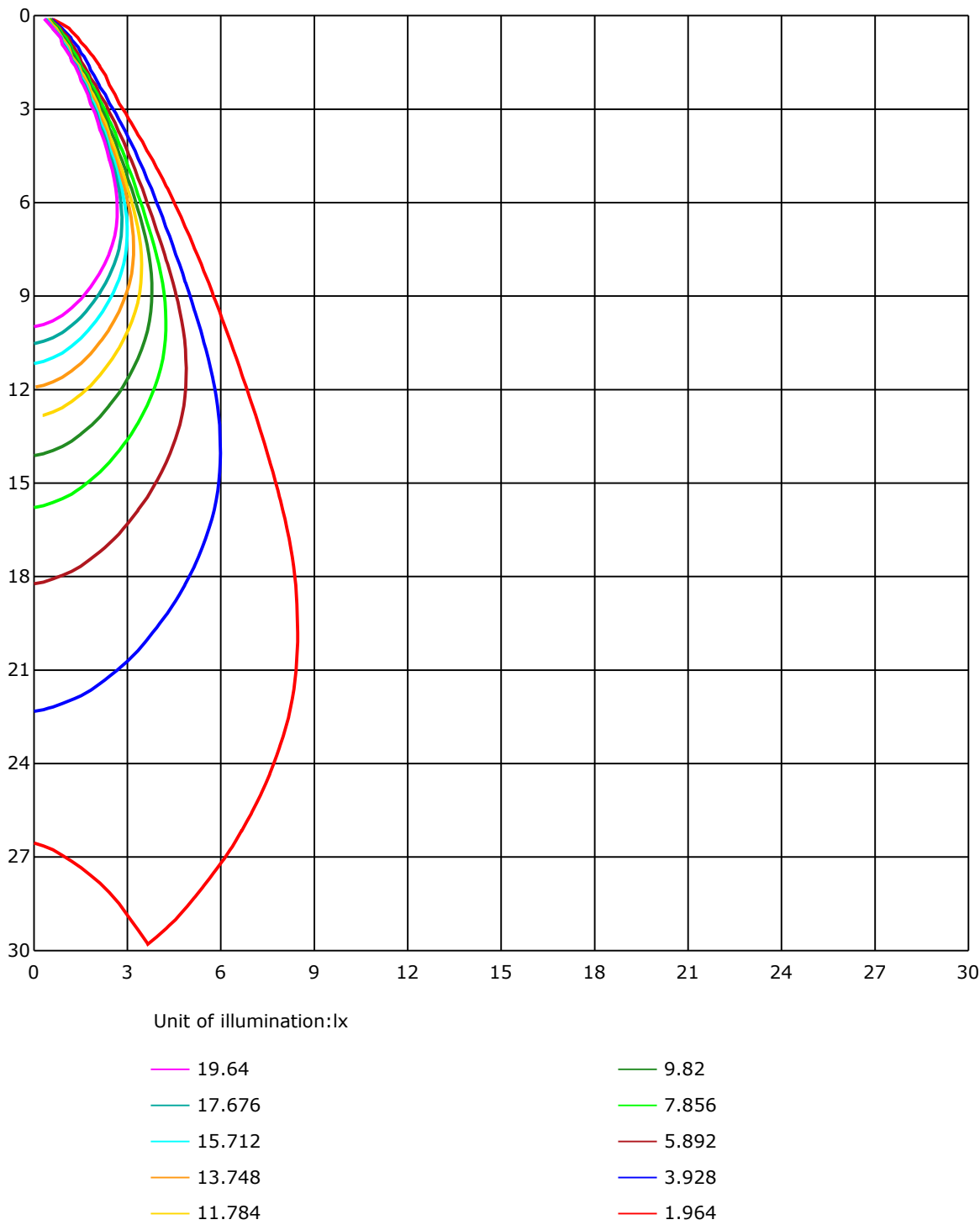
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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SPACE ISOLX DIAGRAM



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

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1956.98	1956.65	1965.84	1962.27	1956.98	1956.65	1965.84	1962.27	1956.98	
G1	1946.22	1948.21	1965.65	1961.29	1966.95	1962.36	1968.8	1966.58	1946.22	
G2	1926.09	1935.0	1960.41	1952.43	1973.12	1968.11	1971.68	1964.58	1926.09	
G3	1905.69	1913.57	1948.72	1947.29	1974.65	1969.96	1962.13	1952.53	1905.69	
G4	1882.96	1894.56	1933.79	1930.13	1974.23	1964.49	1952.94	1943.95	1882.96	
G5	1855.23	1871.88	1918.21	1913.76	1967.09	1959.44	1938.24	1932.54	1855.23	
G6	1817.94	1843.82	1899.8	1890.2	1956.56	1947.1	1916.45	1912.13	1817.94	
G7	1783.58	1804.63	1868.49	1865.2	1944.46	1926.83	1895.86	1888.67	1783.58	
G8	1747.22	1766.93	1838.95	1834.31	1923.08	1906.2	1866.08	1858.85	1747.22	
G9	1710.07	1727.93	1802.78	1804.77	1902.16	1880.04	1834.04	1829.77	1710.07	
G10	1665.92	1685.77	1769.02	1764.94	1879.86	1849.85	1802.87	1798.14	1665.92	
G11	1621.59	1644.54	1728.9	1727.05	1848.92	1817.39	1760.58	1759.93	1621.59	
G12	1578.32	1600.39	1685.63	1690.04	1813.26	1782.33	1725.1	1718.61	1578.32	
G13	1537.88	1561.72	1646.21	1648.9	1781.03	1745.41	1676.5	1677.98	1537.88	
G14	1490.53	1514.09	1606.51	1604.34	1742.03	1705.02	1632.49	1638.51	1490.53	
G15	1444.52	1469.61	1561.44	1563.01	1707.06	1661.1	1588.34	1590.75	1444.52	
G16	1397.92	1426.11	1517.43	1519.7	1662.68	1616.44	1540.75	1542.93	1397.92	
G17	1349.96	1383.77	1471.7	1475.69	1621.12	1573.82	1490.48	1497.81	1349.96	
G18	1298.9	1338.28	1429.03	1429.27	1576.18	1523.41	1441.23	1450.74	1298.9	
G19	1248.58	1293.38	1388.96	1385.12	1532.87	1479.77	1396.06	1404.08	1248.58	
G20	1195.9	1250.02	1346.9	1338.32	1487.51	1432.09	1350.75	1354.32	1195.9	
G21	1137.65	1201.7	1304.61	1293.94	1443.69	1388.32	1303.82	1307.2	1137.65	
G22	1071.94	1147.3	1262.91	1240.93	1397.27	1338.83	1255.12	1254.71	1071.94	
G23	1002.28	1088.12	1212.13	1187.46	1349.08	1291.99	1200.86	1195.85	1002.28	
G24	926.18	1022.73	1157.46	1132.78	1296.54	1243.85	1146.97	1139.23	926.18	
G25	851.93	953.68	1096.05	1068.51	1241.91	1189.22	1085.29	1074.72	851.93	
G26	764.46	873.77	1031.54	997.64	1185.0	1134.87	1013.92	1006.04	764.46	
G27	666.24	781.34	955.53	925.81	1125.46	1073.19	939.63	934.39	666.24	
G28	570.52	676.53	880.08	851.42	1057.38	1004.51	863.34	856.89	570.52	
G29	482.36	572.65	789.69	774.67	988.23	931.65	780.05	770.72	482.36	
G30	405.47	478.93	690.77	694.48	916.35	856.8	693.32	672.96	405.47	
G31	345.13	400.92	589.72	599.46	842.24	776.8	592.64	573.77	345.13	
G32	293.79	336.83	494.93	508.56	764.56	697.77	498.31	487.0	293.79	
G33	251.4	285.68	415.25	430.46	690.54	605.81	413.07	412.33	251.4	
G34	214.63	243.15	351.48	364.84	610.59	511.25	342.9	350.37	214.63	
G35	184.21	207.95	297.18	309.56	527.62	428.84	285.4	297.6	184.21	
G36	157.59	177.95	254.23	263.23	449.62	360.95	239.12	254.37	157.59	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	135.46	151.46	218.8	224.88	383.3	304.23	203.36	218.52	135.46	
G38	114.41	128.28	189.08	192.46	327.09	258.31	173.54	188.66	114.41	
G39	96.51	108.06	161.76	164.91	279.65	220.56	148.59	162.92	96.51	
G40	80.74	90.76	136.3	142.14	239.02	189.17	126.0	139.59	80.74	
G41	67.76	75.78	114.46	121.51	206.74	162.64	105.13	118.86	67.76	
G42	56.63	63.54	95.3	103.37	178.78	139.68	86.58	101.24	56.63	
G43	48.32	53.66	78.89	87.23	154.25	119.56	71.19	86.12	48.32	
G44	42.39	45.73	65.85	73.92	132.68	102.63	59.04	73.46	42.39	
G45	37.84	40.3	56.67	62.14	114.09	88.21	50.64	63.44	37.84	
G46	34.69	36.36	50.36	53.38	98.04	75.31	44.47	55.65	34.69	
G47	32.32	33.72	45.68	45.82	84.17	65.58	40.02	49.67	32.32	
G48	30.38	31.49	42.48	41.0	72.11	57.97	37.01	44.85	30.38	
G49	28.61	29.73	39.88	37.19	62.7	51.94	35.06	41.41	28.61	
G50	26.85	28.01	37.43	34.69	55.33	47.3	33.07	39.19	26.85	
G51	25.23	26.3	35.2	32.7	49.99	44.15	31.12	36.96	25.23	
G52	23.65	24.58	33.16	30.65	45.45	41.55	29.31	34.78	23.65	
G53	21.89	23.28	31.21	28.94	42.2	39.42	27.5	32.74	21.89	
G54	19.99	21.43	29.4	27.22	39.79	37.15	25.92	30.93	19.99	
G55	17.9	19.99	26.81	25.55	37.94	35.34	24.49	29.03	17.9	
G56	16.05	17.58	24.72	23.98	35.66	33.25	22.59	27.18	16.05	
G57	15.03	15.81	22.68	22.26	33.81	31.67	20.41	25.23	15.03	
G58	13.91	14.61	20.87	20.54	31.95	29.68	18.55	22.59	13.91	
G59	12.99	13.59	19.57	18.36	30.24	27.92	17.07	20.82	12.99	
G60	12.1	12.66	18.23	16.88	28.24	25.97	15.77	19.39	12.1	
G61	11.27	11.73	16.97	15.77	26.25	23.79	14.61	18.36	11.27	
G62	10.34	10.81	16.09	14.65	23.93	21.89	13.63	17.21	10.34	
G63	9.74	10.11	14.89	13.63	22.31	20.5	12.71	16.05	9.74	
G64	9.18	9.28	14.01	12.71	20.96	19.29	11.83	15.07	9.18	
G65	8.63	8.81	13.22	11.87	19.76	18.36	11.04	14.1	8.63	
G66	8.35	8.25	12.57	11.04	18.5	17.21	10.39	13.45	8.35	
G67	8.12	8.07	12.15	10.11	17.3	16.09	9.97	12.52	8.12	
G68	7.98	7.51	11.64	9.65	16.46	15.12	9.6	11.92	7.98	
G69	7.88	7.47	11.36	9.04	15.49	14.38	9.28	11.45	7.88	
G70	7.47	7.23	11.18	8.9	14.75	13.59	9.04	11.08	7.47	
G71	7.28	7.0	10.67	8.58	13.91	12.99	8.77	10.76	7.28	
G72	6.86	6.45	10.39	8.39	13.26	12.57	8.58	10.43	6.86	
G73	6.49	6.17	9.83	8.07	12.94	12.48	8.25	9.92	6.49	

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