

Report No.:

Test Time: 2024/4/24 10:15:05

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT095H98-60°-14.9W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

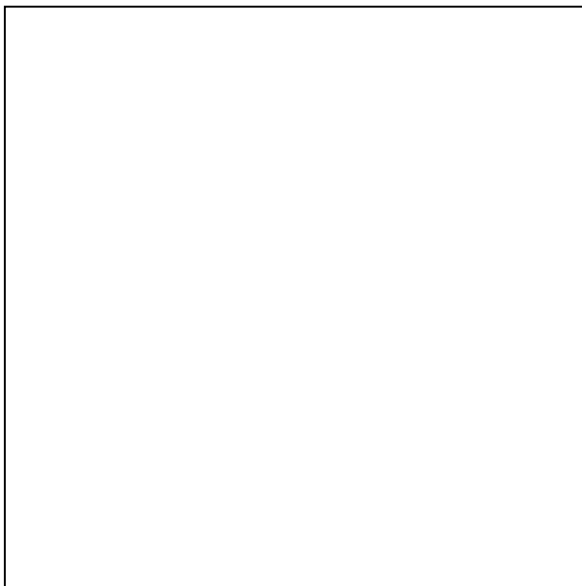
Voltage(V): 219.90 V
Current(A): 0.0710 A
Power(W): 14.85 W
Power Factor: 0.9500
Lamp Luminous Flux: 1584.47

Photometric Results

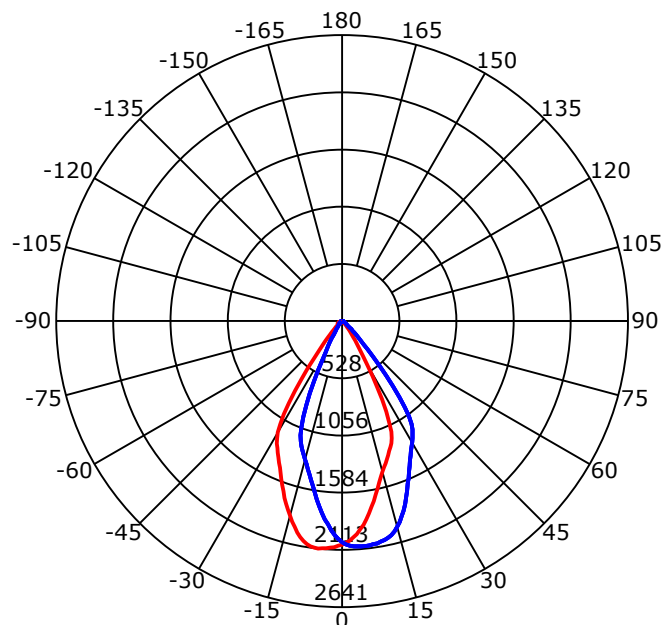
CIE Class: Direct
Luminaire Luminous Flux: 1584.469 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 106.70 lm/W
Beam Angle(50%) C0-180,C90-270: 56.3,56.4
Field Angle(10%) C0-180,C90-270: 74.8,75.4
S/MH C0-180,C90-270: 0.849,0.808

Max. Intensity: 2112.66 cd
Max.Intensity Angle: C=180 Gamma=6
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2065.30 cd
Effective Luminous Flux: 1454.73 lm
ERP(ϕ use)(120deg): 1562.79 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 56.3 deg,56.4 deg

C0-180 — C90-270 —

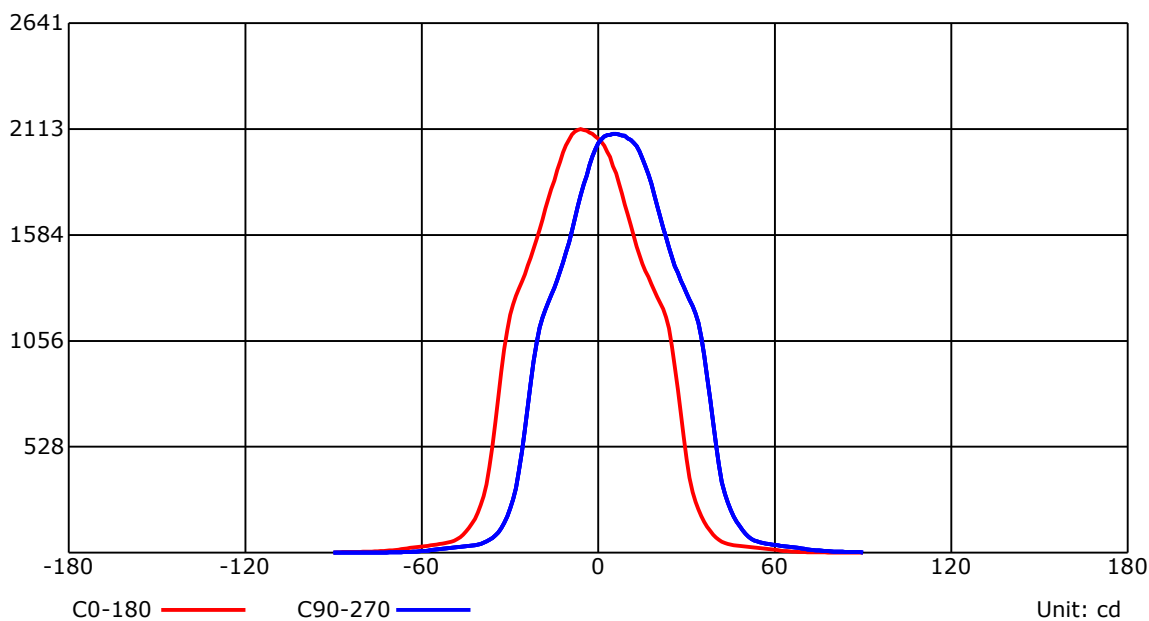
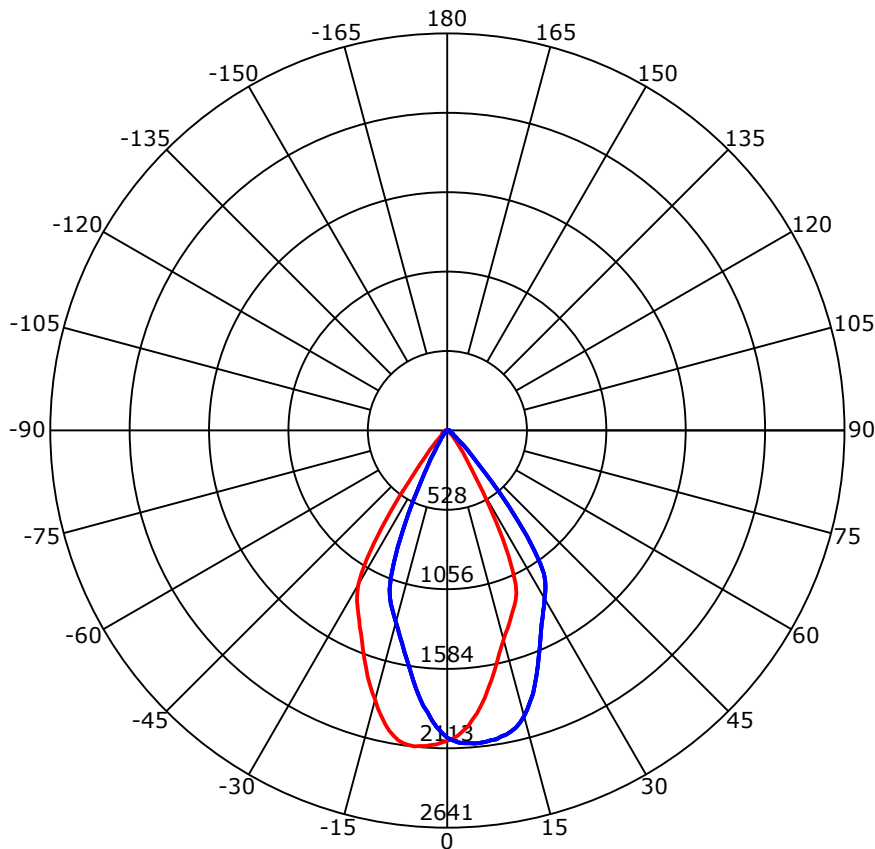
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/24 10:15:05

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



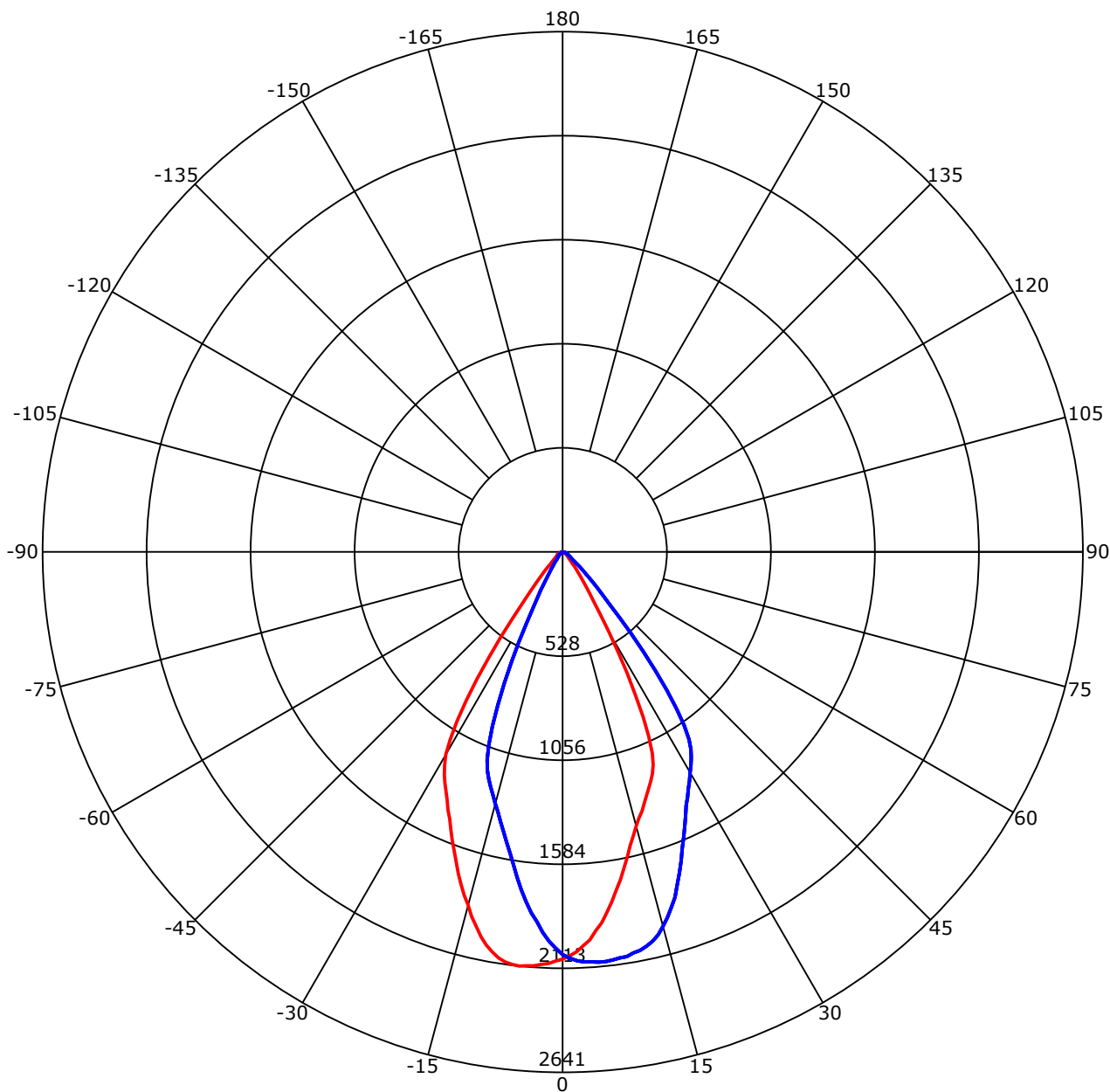
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

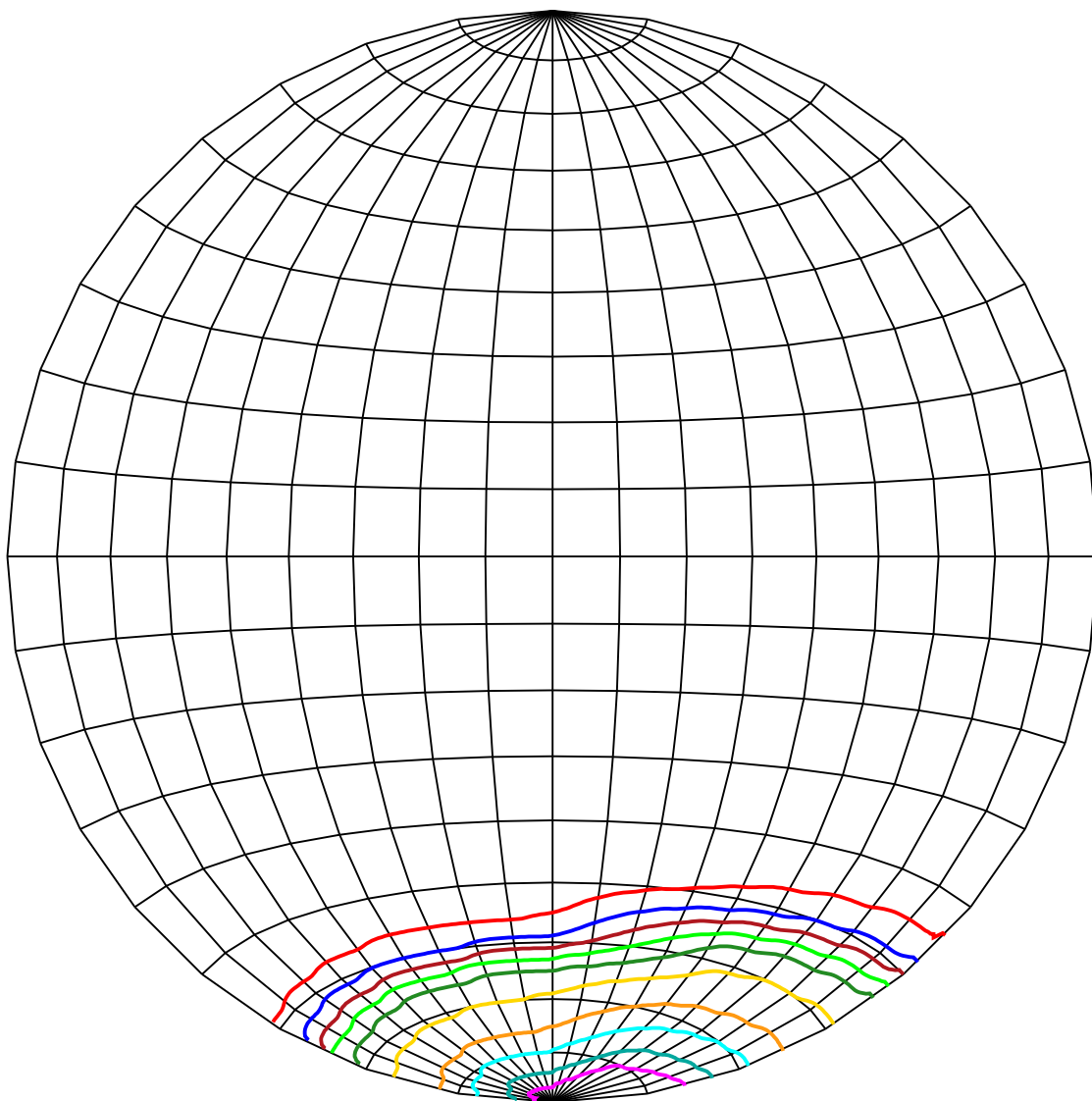
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 2112.658 cd

2007.025(95%I _{max})	1056.329(50%I _{max})
1901.392(90%I _{max})	845.063(40%I _{max})
1690.126(80%I _{max})	633.797(30%I _{max})
1478.861(70%I _{max})	422.532(20%I _{max})
1267.595(60%I _{max})	211.266(10%I _{max})

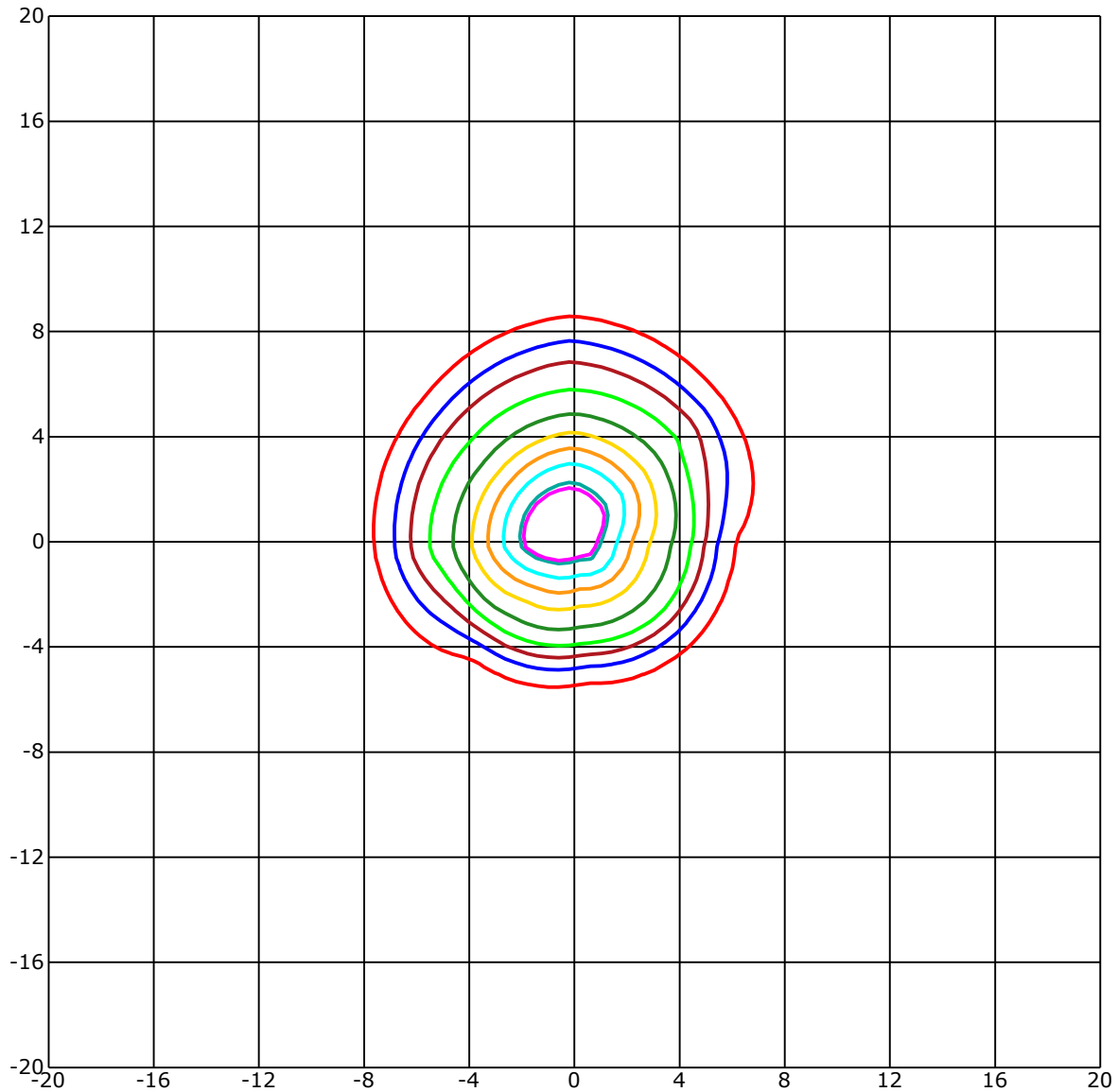
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ISOLX DIAGRAM



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

19.246(92%Emax)	10.46(50%Emax)
18.828(90%Emax)	8.368(40%Emax)
16.736(80%Emax)	6.276(30%Emax)
14.644(70%Emax)	4.184(20%Emax)
12.552(60%Emax)	2.092(10%Emax)

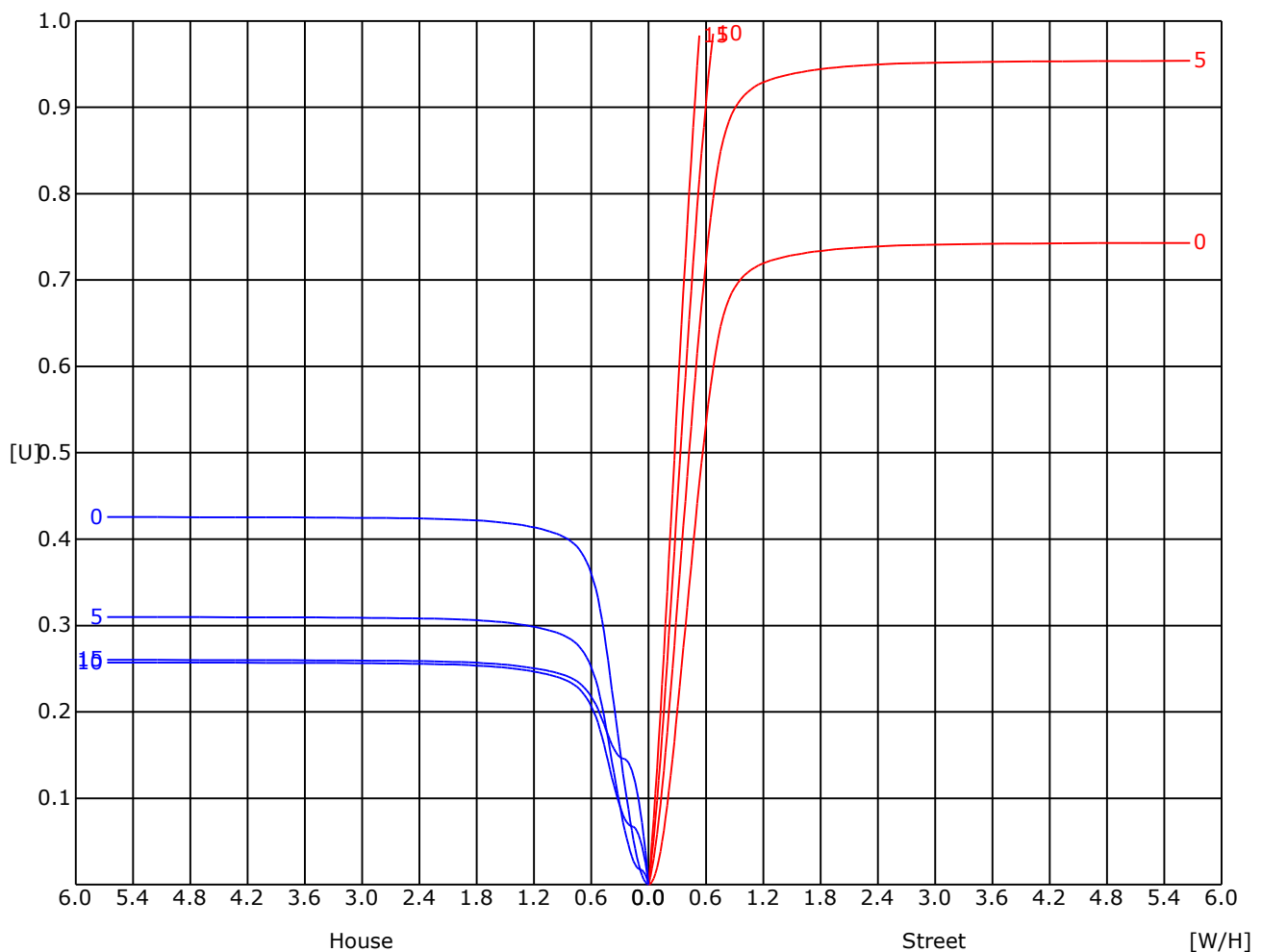
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UTILIZATION FACTOR DIAGRAM (ROAD)



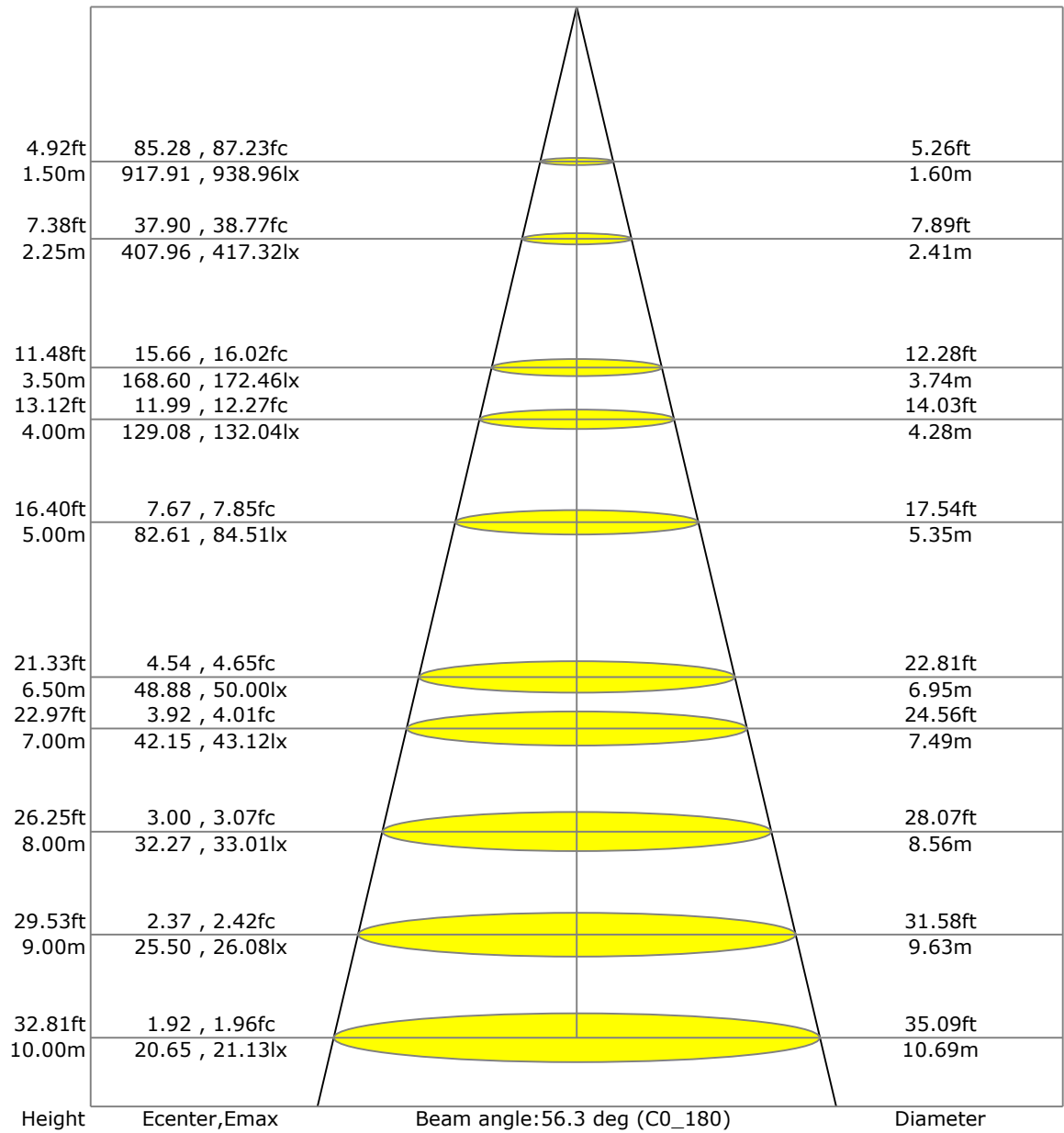
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LX-DISTANCE DIAGRAM



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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	16.82	16.87	17.02	17.06	17.30	17.01	17.06	17.20	17.24	17.49
3H	16.80	16.85	17.00	17.04	17.29	16.98	17.03	17.19	17.22	17.47
4H	16.78	16.83	16.99	17.03	17.28	16.96	17.02	17.17	17.21	17.46
6H	16.76	16.82	16.98	17.02	17.27	16.95	17.00	17.16	17.20	17.45
8H	16.76	16.81	16.97	17.01	17.26	16.94	16.99	17.15	17.19	17.44
12H	16.75	16.80	16.97	17.00	17.26	16.93	16.98	17.15	17.18	17.44
4H 2H	16.81	16.86	17.02	17.05	17.30	17.11	17.16	17.32	17.36	17.60
3H	16.78	16.84	17.01	17.04	17.30	17.08	17.13	17.30	17.34	17.59
4H	16.77	16.82	16.99	17.03	17.29	17.06	17.11	17.29	17.32	17.58
6H	16.74	16.79	16.98	17.01	17.28	17.04	17.09	17.28	17.31	17.57
8H	16.73	16.78	16.97	17.00	17.27	17.03	17.07	17.27	17.30	17.56
12H	16.72	16.76	16.96	16.99	17.26	17.01	17.06	17.26	17.29	17.56
8H 4H	16.78	16.83	17.00	17.04	17.29	17.11	17.16	17.33	17.36	17.62
6H	16.71	16.75	16.96	16.99	17.26	17.03	17.08	17.29	17.32	17.59
8H	16.69	16.73	16.95	16.98	17.25	17.02	17.06	17.28	17.31	17.58
12H	16.67	16.71	16.94	16.97	17.25	17.00	17.04	17.27	17.30	17.58
12H 4H	16.72	16.76	16.97	17.00	17.27	17.06	17.11	17.31	17.34	17.61
6H	16.69	16.73	16.95	16.98	17.25	17.04	17.08	17.30	17.33	17.60

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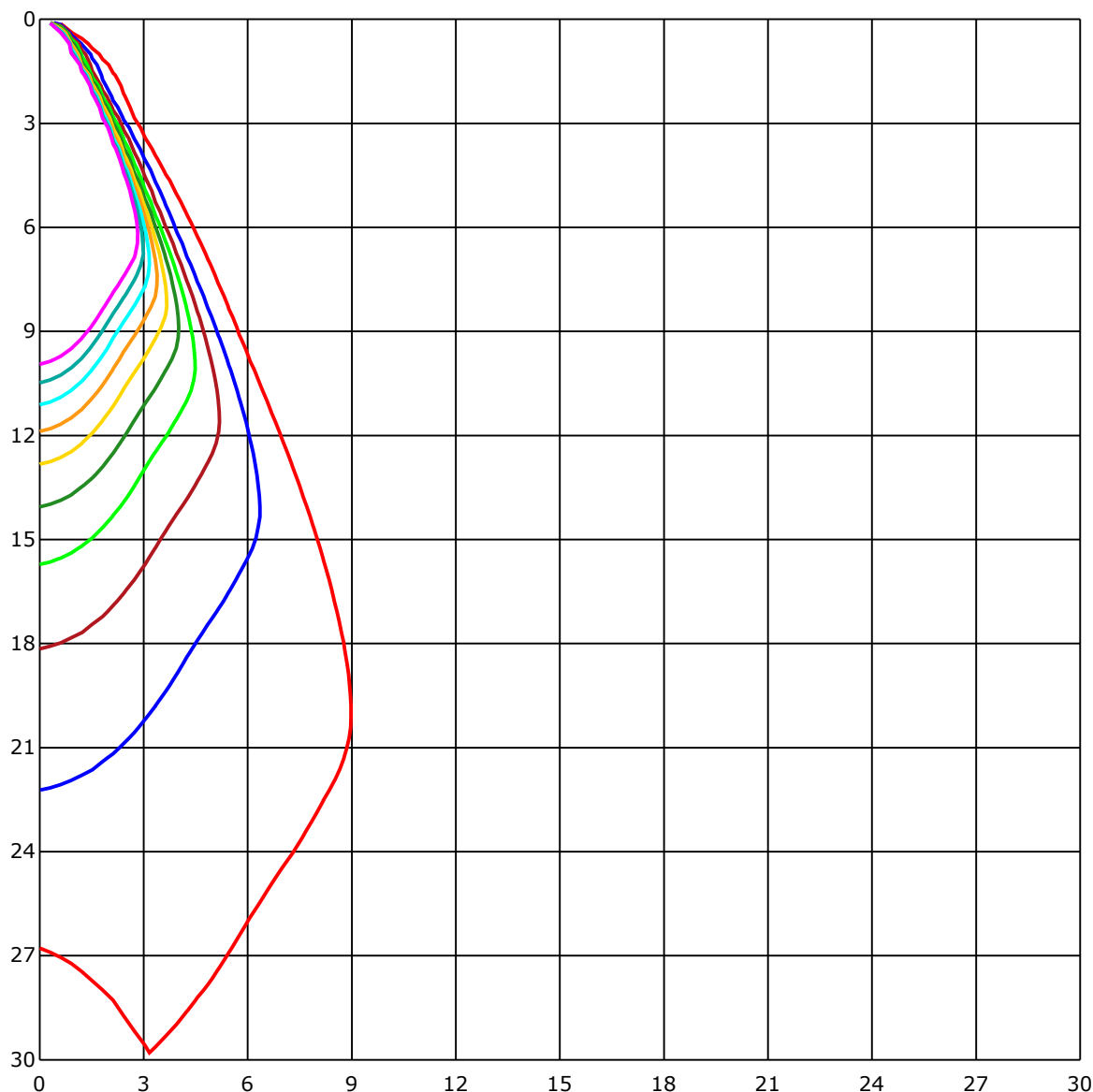
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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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



Unit of illumination:lx



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C Interval: 45.0 Deg
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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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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2065.3	2082.36	2042.32	2074.86	2065.3	2082.36	2042.32	2074.86	2065.3	
G1	2049.32	2086.13	2061.3	2092.91	2075.8	2073.83	2011.52	2057.58	2049.32	
G2	2029.43	2085.81	2076.21	2094.79	2089.23	2057.89	1976.96	2032.93	2029.43	
G3	1999.85	2080.61	2082.85	2098.34	2095.06	2032.84	1933.82	2003.53	1999.85	
G4	1973.36	2071.18	2084.51	2106.6	2104.4	2003.08	1879.72	1973.86	1973.36	
G5	1928.07	2060.86	2088.73	2102.74	2107.18	1966.32	1837.93	1929.78	1928.07	
G6	1892.02	2057.13	2089.5	2109.56	2112.66	1919.23	1782.99	1879.68	1892.02	
G7	1841.07	2045.23	2085.86	2104.76	2108.03	1873.66	1726.51	1829.31	1841.07	
G8	1791.83	2022.29	2080.47	2101.12	2100.63	1821.1	1665.87	1774.55	1791.83	
G9	1736.03	2008.33	2078.5	2095.78	2085.95	1768.98	1605.18	1718.57	1736.03	
G10	1688.49	1981.71	2066.2	2081.01	2060.54	1716.32	1546.82	1657.97	1688.49	
G11	1632.11	1959.99	2059.01	2060.45	2031.72	1663.4	1496.9	1593.78	1632.11	
G12	1579.95	1925.33	2044.56	2034.42	1995.85	1609.89	1447.52	1537.66	1579.95	
G13	1526.89	1891.4	2027.37	1998.5	1949.3	1565.63	1404.2	1486.49	1526.89	
G14	1483.35	1847.81	2001.24	1958.46	1908.63	1517.6	1360.44	1441.55	1483.35	
G15	1441.33	1808.03	1966.54	1909.26	1855.75	1474.82	1321.56	1402.68	1441.33	
G16	1405.51	1752.95	1929.51	1857.46	1812.57	1433.7	1283.36	1357.11	1405.51	
G17	1374.94	1703.53	1885.6	1809.65	1765.34	1395.72	1248.93	1322.41	1374.94	
G18	1340.69	1651.23	1841.88	1746.67	1716.95	1356.94	1212.97	1290.27	1340.69	
G19	1307.87	1604.64	1785.95	1688.63	1661.24	1319.77	1172.89	1255.12	1307.87	
G20	1275.68	1559.43	1731.41	1635.48	1612.13	1283.14	1123.37	1227.07	1275.68	
G21	1247.27	1517.78	1678.8	1573.84	1564.37	1246.87	1049.17	1190.08	1247.27	
G22	1216.16	1471.45	1619.99	1521.28	1515.71	1199.37	953.19	1152.15	1216.16	
G23	1173.56	1428.36	1572.86	1464.9	1470.6	1133.34	845.46	1084.5	1173.56	
G24	1119.6	1393.7	1521.55	1421.58	1432.98	1040.19	730.41	998.26	1119.6	
G25	1032.11	1366.45	1475.49	1378.71	1388.22	937.71	615.58	895.65	1032.11	
G26	930.39	1332.74	1429.25	1341.13	1352.98	815.61	505.78	788.58	930.39	
G27	812.55	1307.96	1395.5	1302.75	1316.0	695.39	406.16	673.17	812.55	
G28	696.06	1276.4	1357.83	1269.35	1281.16	572.48	321.82	563.5	696.06	
G29	578.72	1247.67	1326.63	1238.47	1237.57	461.47	265.43	458.15	578.72	
G30	468.97	1210.28	1292.97	1202.47	1186.98	365.09	221.4	371.55	468.97	
G31	373.84	1167.19	1262.53	1160.05	1109.55	297.49	180.86	307.54	373.84	
G32	302.6	1100.52	1229.63	1107.89	1012.85	249.68	147.06	257.35	302.6	
G33	254.12	1013.75	1193.58	1023.94	900.27	209.37	121.25	213.77	254.12	
G34	215.34	900.49	1146.27	922.85	776.96	174.58	101.72	178.03	215.34	
G35	182.43	786.74	1075.52	809.77	654.18	146.97	86.32	150.34	182.43	
G36	153.25	664.24	984.8	695.71	536.39	125.2	73.66	127.17	153.25	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	129.46	548.02	878.68	577.47	427.35	107.29	64.01	107.38	129.46	
G38	109.26	440.37	764.12	467.75	339.77	91.35	55.84	91.44	109.26	
G39	90.5	351.44	650.19	369.8	280.97	79.19	49.47	79.23	90.5	
G40	74.92	285.46	540.16	292.01	237.69	69.0	43.81	69.44	74.92	
G41	63.79	244.87	438.49	241.19	199.63	61.5	40.67	61.5	63.79	
G42	54.99	211.3	351.94	202.18	168.56	55.93	37.84	55.57	54.99	
G43	48.35	181.67	293.04	169.68	143.83	51.89	35.73	51.04	48.35	
G44	43.68	154.29	249.36	140.86	123.49	48.39	33.89	47.9	43.68	
G45	40.4	131.03	213.41	119.32	105.81	45.61	32.14	44.85	40.4	
G46	37.8	110.56	181.36	101.95	89.96	43.09	30.7	42.33	37.8	
G47	35.64	91.62	155.14	86.14	77.57	41.12	29.18	40.22	35.64	
G48	33.98	75.42	132.74	73.22	67.51	38.92	27.56	38.25	33.98	
G49	32.23	63.12	112.4	62.58	60.15	36.85	26.08	36.5	32.23	
G50	30.75	54.36	94.04	54.5	55.3	34.88	24.42	34.83	30.75	
G51	29.04	48.53	80.04	48.66	51.53	33.04	23.07	33.08	29.04	
G52	27.61	43.77	69.27	44.08	48.53	31.38	21.46	31.11	27.61	
G53	25.99	40.67	61.5	41.03	45.43	29.99	19.98	29.27	25.99	
G54	24.64	37.93	55.71	38.61	42.87	27.88	18.36	27.65	24.64	
G55	23.07	35.87	52.03	36.5	40.81	25.99	16.88	26.04	23.07	
G56	21.59	33.85	48.3	34.74	38.7	24.15	14.95	24.06	21.59	
G57	20.02	32.23	45.25	32.77	36.59	22.53	12.88	22.18	20.02	
G58	18.27	30.57	42.87	31.24	34.66	20.51	10.41	20.6	18.27	
G59	16.61	29.0	40.85	29.45	32.64	18.4	8.93	18.32	16.61	
G60	15.04	27.43	38.78	28.01	30.93	15.53	7.77	15.62	15.04	
G61	12.52	26.08	36.94	26.17	29.31	13.83	6.82	13.87	12.52	
G62	10.1	24.51	34.74	24.64	27.52	12.48	5.84	12.7	10.1	
G63	8.84	22.98	32.9	22.98	25.59	11.49	4.98	11.49	8.84	
G64	7.77	21.46	31.11	21.37	23.84	10.19	4.22	10.46	7.77	
G65	6.64	19.8	29.67	19.44	21.91	9.2	3.37	9.43	6.64	
G66	5.84	18.23	27.61	17.87	19.98	8.17	2.87	8.26	5.84	
G67	4.98	16.56	25.68	15.98	17.37	7.32	2.24	7.41	4.98	
G68	4.17	14.59	23.66	14.01	14.99	6.51	1.75	6.51	4.17	
G69	3.41	12.03	21.73	11.63	13.2	5.79	1.44	5.88	3.41	
G70	2.87	9.79	19.48	9.52	12.03	5.39	1.44	5.34	2.87	
G71	2.29	8.57	17.01	8.35	10.91	4.98	1.35	5.12	2.29	
G72	2.06	7.5	14.5	7.59	9.83	4.71	1.08	4.71	2.06	
G73	1.75	6.6	13.06	6.37	8.89	4.49	1.03	4.44	1.75	

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