

Report No.:

Test Time: 2024/9/6 11:18:09

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT200-41.2W
Lamp Type:
Luminous Width: 190 mm
Luminous Length: 190 mm
Luminous Height: 70 mm

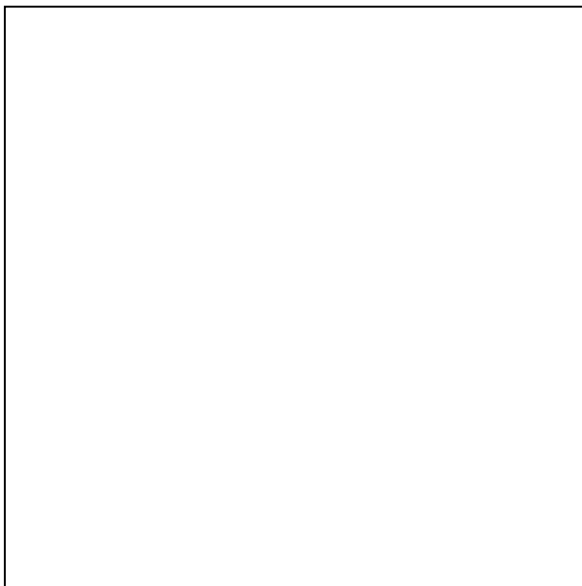
Voltage(V): 219.80 V
Current(A): 0.1900 A
Power(W): 41.22 W
Power Factor: 0.9810
Lamp Luminous Flux: 4869.30

Photometric Results

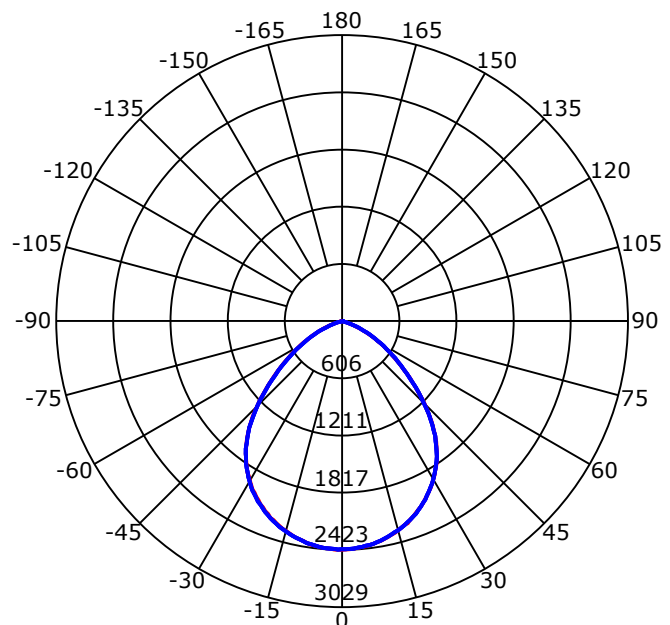
CIE Class: Direct
Luminaire Luminous Flux: 4869.299 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 118.13 lm/W
Beam Angle(50%) C0-180,C90-270: 91.4,91.2
Field Angle(10%) C0-180,C90-270: 133.0,133.1
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 2422.93 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2421.71 cd
Effective Luminous Flux: 4752.02 lm
ERP(ϕ use)(120deg): 4521.58 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 91.4 deg,91.2 deg

C0-180 — C90-270 —

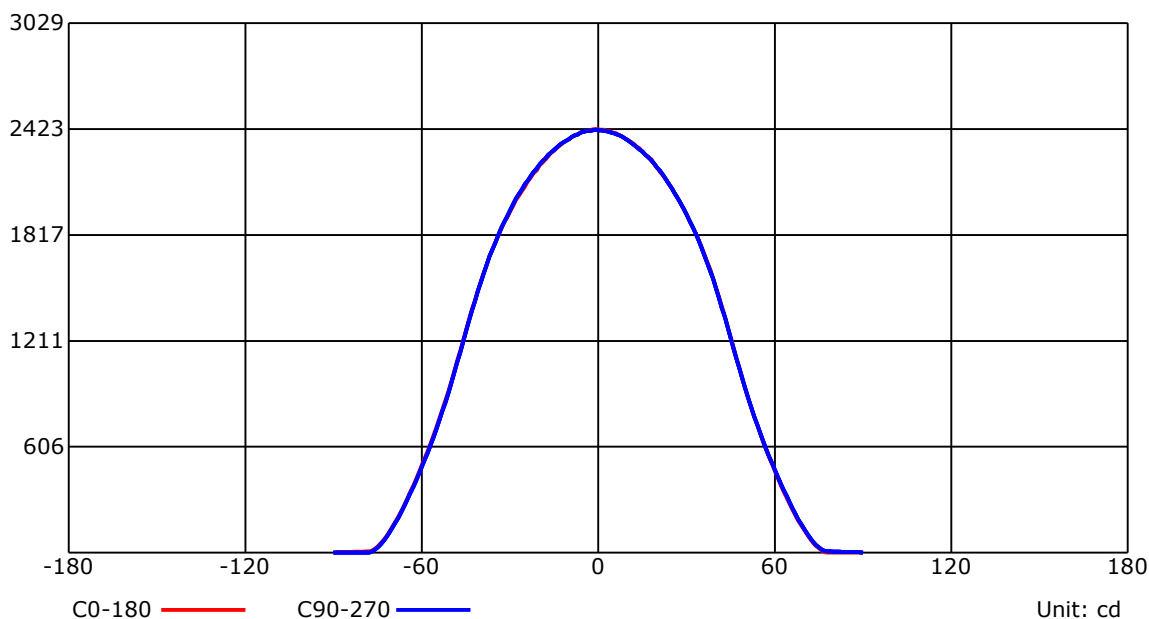
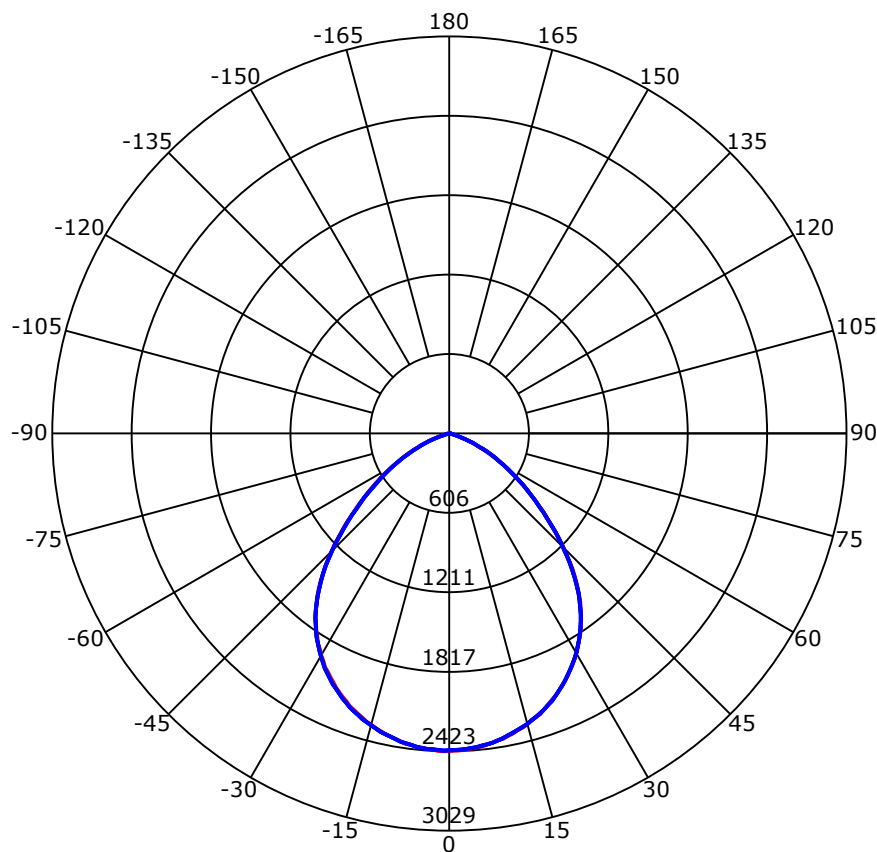
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/6 11:18:09

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

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Luminous Intensity Distribution Curve



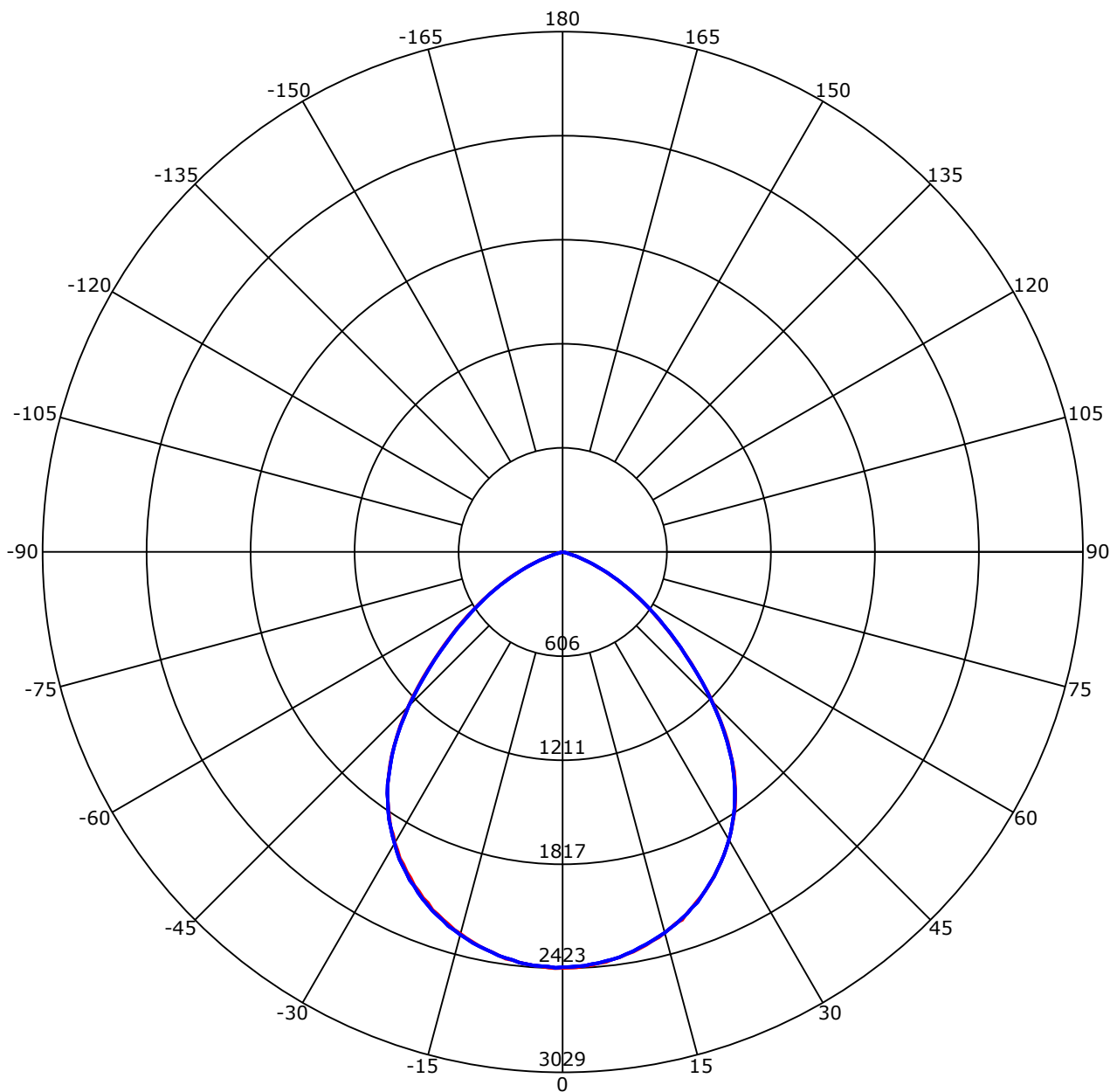
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

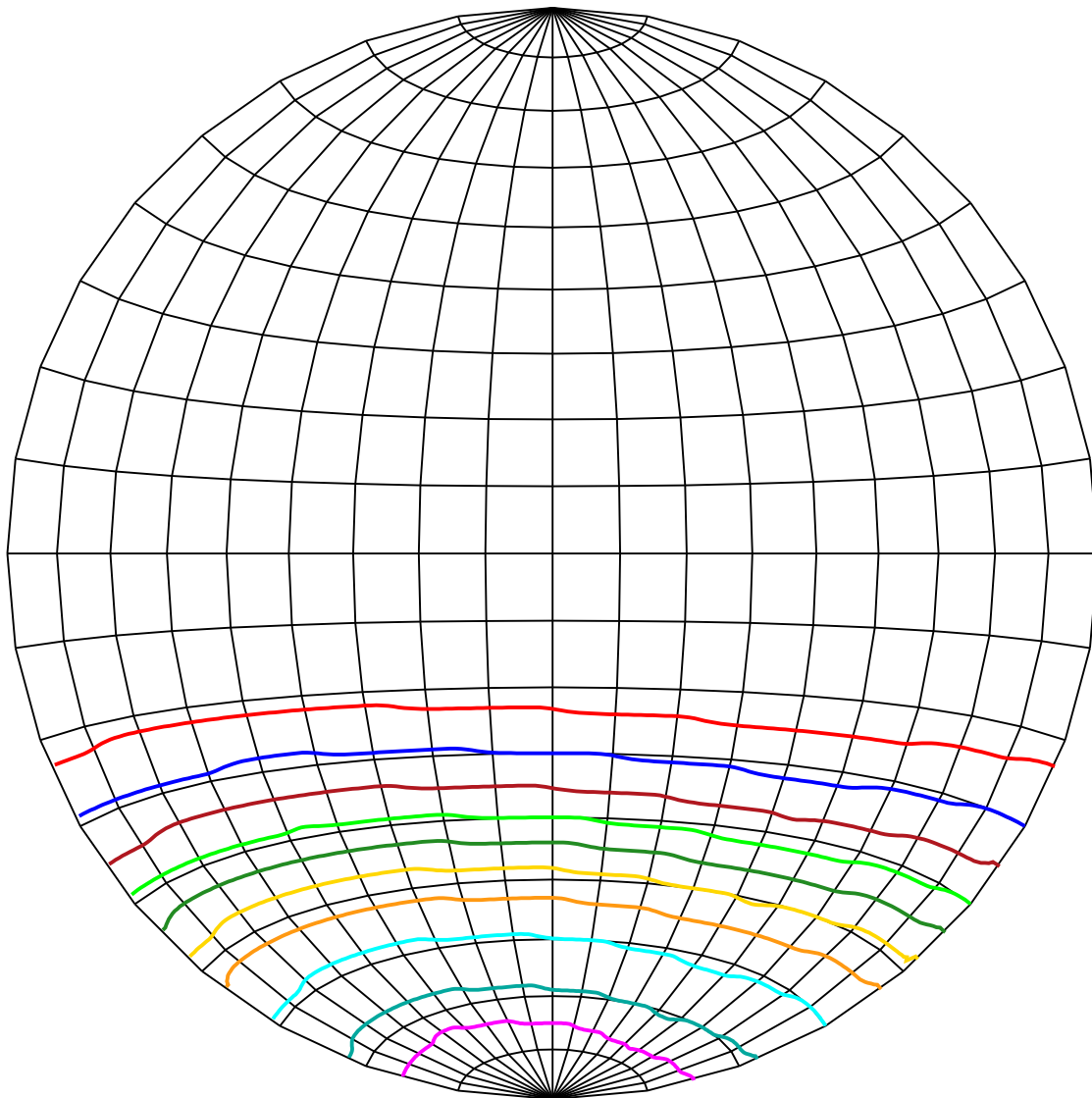
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2422.927 cd

2301.781(95%Imax)	1211.464(50%Imax)
2180.634(90%Imax)	969.171(40%Imax)
1938.342(80%Imax)	726.878(30%Imax)
1696.049(70%Imax)	484.585(20%Imax)
1453.756(60%Imax)	242.293(10%Imax)

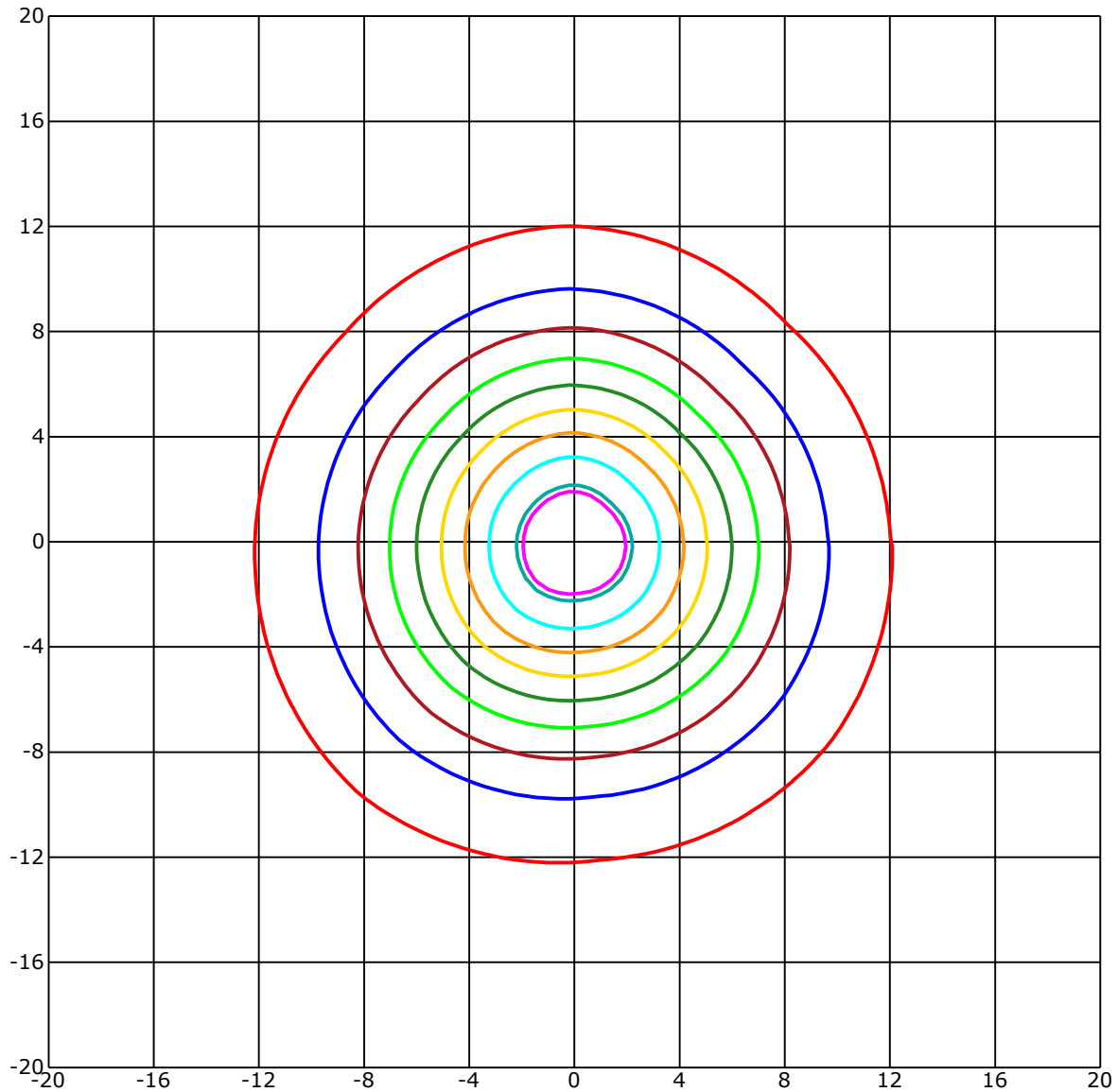
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ISOLX DIAGRAM



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

22.281(92%Emax)	12.109(50%Emax)
21.796(90%Emax)	9.687(40%Emax)
19.375(80%Emax)	7.265(30%Emax)
16.953(70%Emax)	4.844(20%Emax)
14.531(60%Emax)	2.422(10%Emax)

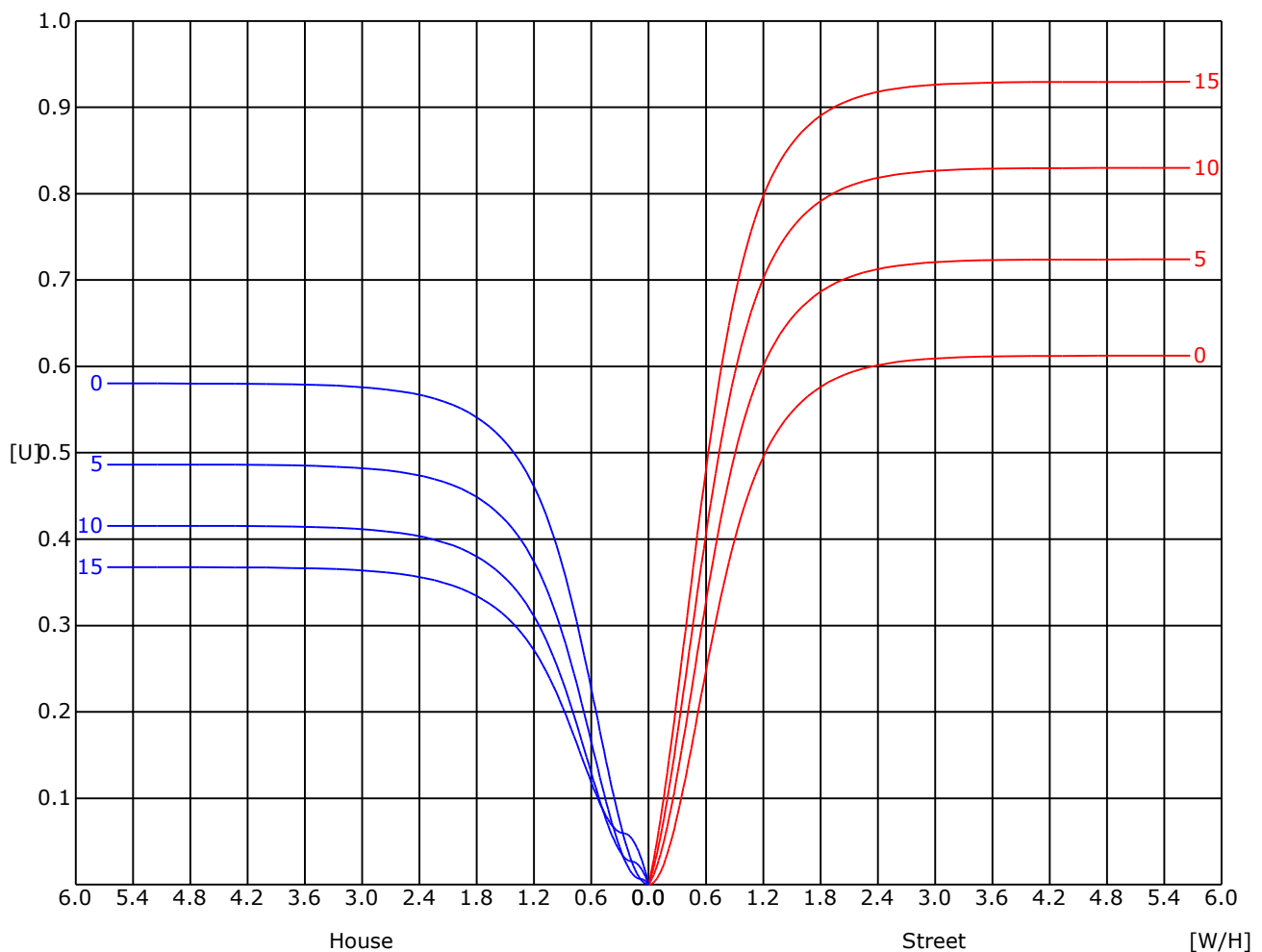
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UTILIZATION FACTOR DIAGRAM (ROAD)



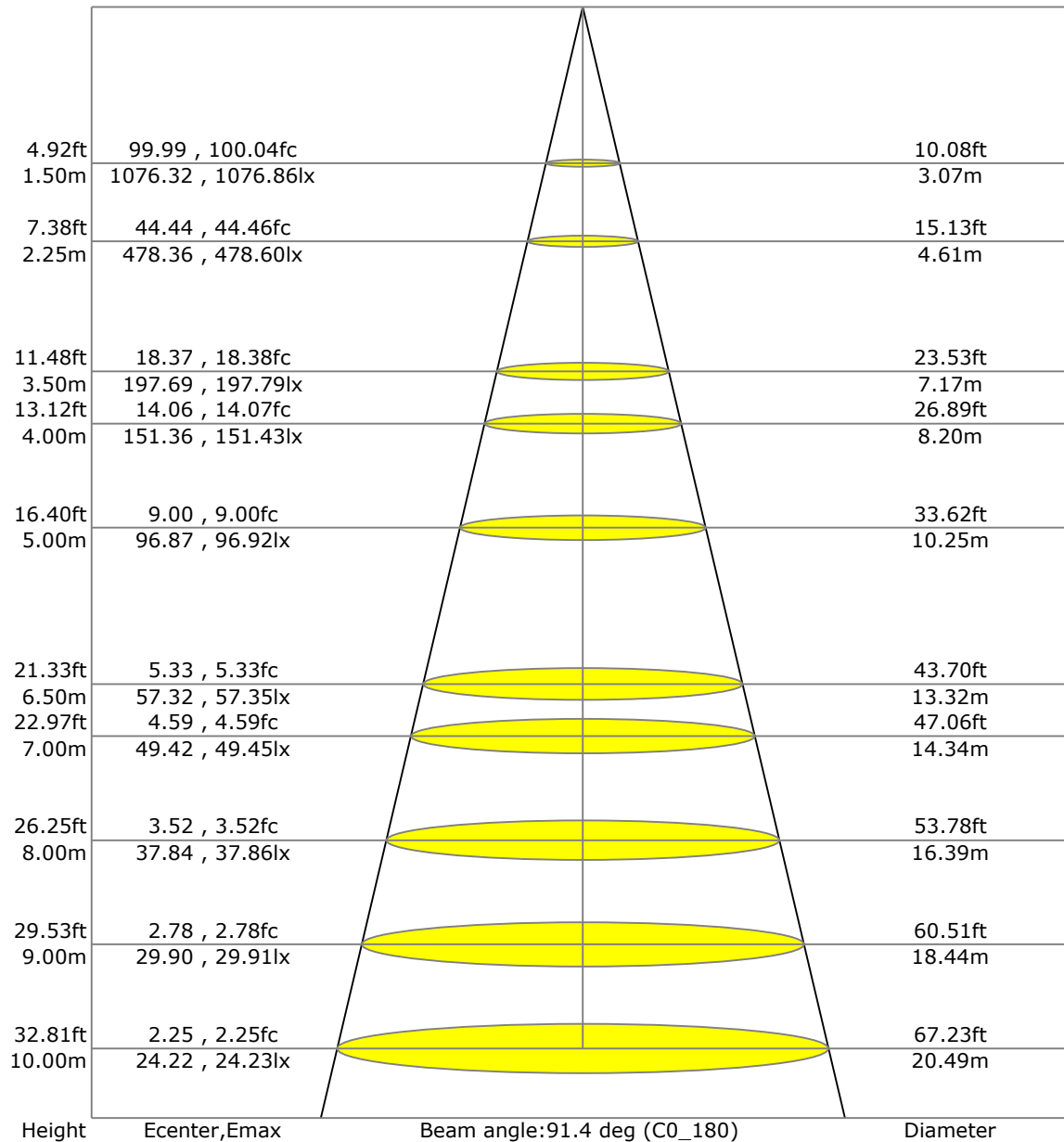
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LX-DISTANCE DIAGRAM



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Operators: QC01

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G Interval: 1.0 Deg

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Humidity: 60

Test Distance: 6.71 m

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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	15.19	15.25	15.39	15.44	15.69	15.19	15.26	15.39	15.45	15.69
3H	15.18	15.24	15.38	15.43	15.68	15.18	15.24	15.39	15.44	15.68
4H	15.15	15.22	15.36	15.41	15.66	15.16	15.22	15.37	15.42	15.66
6H	15.13	15.19	15.34	15.39	15.64	15.13	15.19	15.35	15.39	15.64
8H	15.11	15.17	15.33	15.38	15.63	15.12	15.18	15.34	15.38	15.63
12H	15.10	15.16	15.32	15.36	15.62	15.10	15.16	15.33	15.37	15.62
4H 2H	15.59	15.65	15.80	15.85	16.10	15.62	15.68	15.83	15.88	16.13
3H	15.57	15.63	15.79	15.84	16.09	15.60	15.66	15.82	15.86	16.12
4H	15.54	15.60	15.77	15.81	16.07	15.57	15.62	15.80	15.84	16.10
6H	15.51	15.56	15.75	15.78	16.05	15.54	15.59	15.77	15.81	16.07
8H	15.49	15.54	15.74	15.77	16.04	15.52	15.57	15.76	15.80	16.06
12H	15.48	15.52	15.72	15.76	16.02	15.50	15.55	15.75	15.78	16.05
8H 4H	15.55	15.61	15.77	15.82	16.07	15.58	15.64	15.80	15.84	16.10
6H	15.46	15.50	15.71	15.74	16.01	15.48	15.53	15.74	15.77	16.04
8H	15.44	15.48	15.70	15.72	16.00	15.47	15.51	15.73	15.75	16.03
12H	15.42	15.46	15.69	15.71	15.99	15.44	15.48	15.71	15.74	16.02
12H 4H	15.48	15.52	15.72	15.76	16.02	15.50	15.55	15.75	15.78	16.05
6H	15.44	15.48	15.70	15.72	16.00	15.47	15.51	15.73	15.75	16.03

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ZONAL LUMINOUS FLUX TABLE

[illegible]

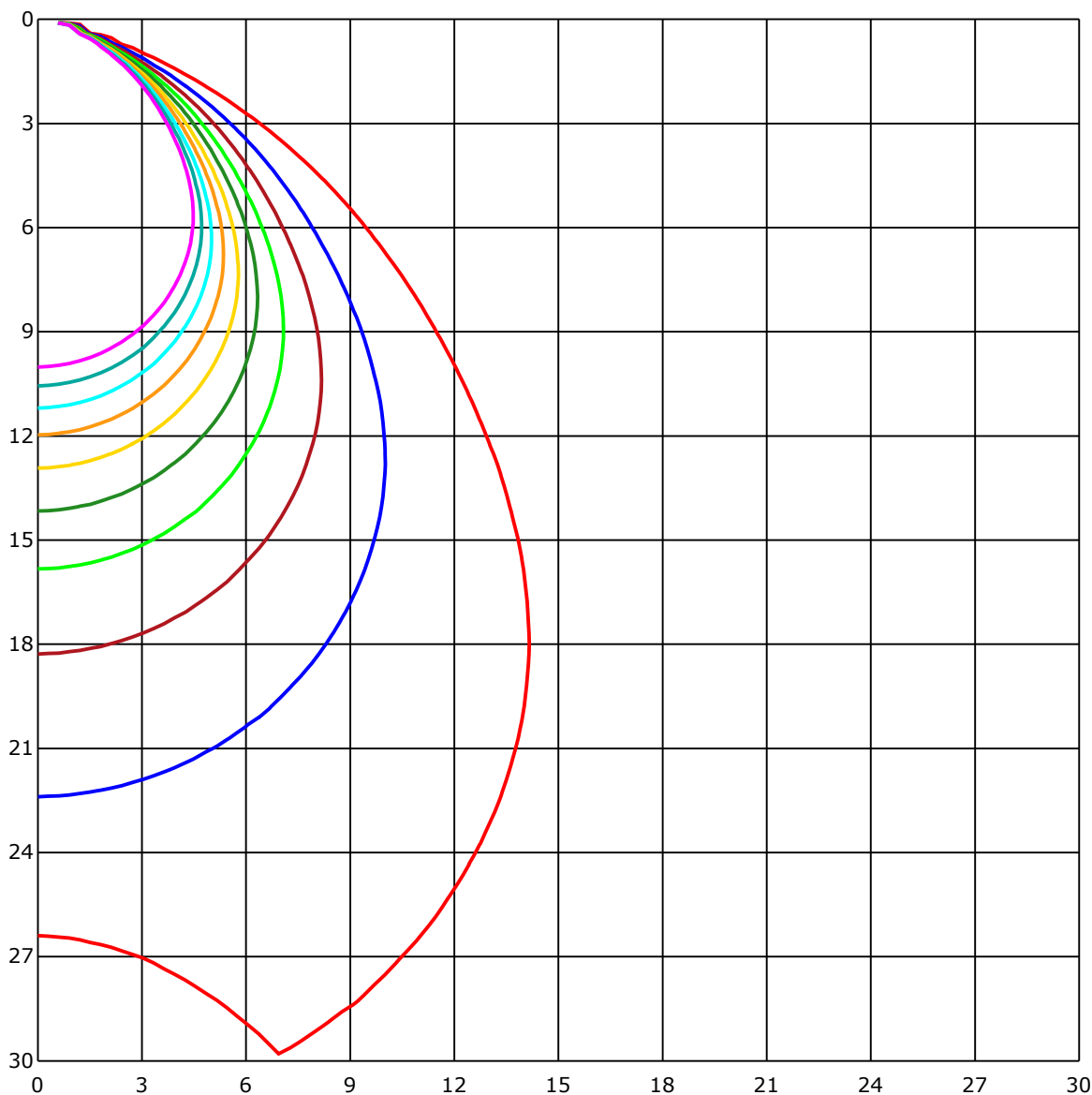
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

24.159

21.743

19.327

16.911

14.495

12.079

9.663

7.248

4.832

2.416

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G Interval: 1.0 Deg

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Humidity: 60

Test Distance: 6.71 m

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2421.71	2411.58	2415.9	2417.93	2421.71	2411.58	2415.9	2417.93	2421.71	
G1	2419.19	2411.63	2414.87	2414.06	2422.93	2414.01	2419.28	2417.12	2419.19	
G2	2418.88	2405.19	2412.66	2414.24	2421.62	2420.32	2414.82	2420.36	2418.88	
G3	2412.44	2399.74	2411.0	2409.96	2413.92	2420.36	2412.57	2415.68	2412.44	
G4	2410.01	2394.92	2405.05	2406.22	2411.9	2415.95	2412.53	2414.64	2410.01	
G5	2403.12	2385.33	2401.41	2394.52	2406.99	2413.79	2408.16	2411.27	2403.12	
G6	2400.06	2374.66	2393.08	2392.04	2402.58	2410.64	2402.67	2409.78	2400.06	
G7	2388.89	2364.89	2388.8	2381.73	2393.89	2409.96	2392.4	2398.88	2388.89	
G8	2381.82	2355.71	2380.56	2372.1	2390.65	2404.24	2386.32	2393.8	2381.82	
G9	2370.74	2345.67	2369.3	2359.71	2377.99	2392.63	2379.52	2384.03	2370.74	
G10	2363.45	2329.73	2358.86	2351.74	2364.44	2388.53	2366.65	2376.69	2363.45	
G11	2350.03	2317.84	2345.85	2337.65	2354.72	2379.88	2355.89	2364.89	2350.03	
G12	2339.18	2301.54	2333.69	2324.19	2344.05	2370.11	2345.98	2355.48	2339.18	
G13	2322.25	2289.16	2320.5	2307.89	2329.05	2359.67	2334.91	2343.46	2322.25	
G14	2312.3	2271.29	2306.63	2292.58	2316.36	2345.13	2319.87	2333.87	2312.3	
G15	2293.84	2253.95	2295.06	2274.57	2299.47	2337.56	2305.64	2316.63	2293.84	
G16	2277.36	2234.01	2276.24	2258.63	2286.86	2321.08	2290.2	2305.32	2277.36	
G17	2258.32	2219.28	2261.07	2243.28	2266.69	2310.14	2277.27	2286.5	2258.32	
G18	2251.21	2193.84	2242.7	2220.5	2249.99	2291.46	2255.44	2268.04	2251.21	
G19	2223.38	2175.16	2224.91	2198.66	2230.76	2275.11	2239.54	2250.62	2223.38	
G20	2202.58	2152.69	2201.95	2180.47	2215.86	2259.08	2221.4	2235.09	2202.58	
G21	2178.54	2126.89	2185.2	2154.72	2187.27	2238.82	2198.53	2213.75	2178.54	
G22	2157.87	2106.18	2159.31	2136.8	2169.85	2225.77	2177.1	2194.84	2157.87	
G23	2135.45	2073.95	2133.65	2107.4	2143.91	2198.98	2154.0	2169.76	2135.45	
G24	2110.51	2047.74	2108.43	2084.08	2124.37	2176.96	2128.69	2150.98	2110.51	
G25	2081.69	2020.1	2084.89	2052.06	2093.31	2155.57	2108.12	2125.45	2081.69	
G26	2055.71	1988.58	2054.41	2024.82	2070.03	2131.76	2078.31	2100.46	2055.71	
G27	2026.18	1956.16	2026.13	1995.02	2040.27	2106.5	2051.25	2072.91	2026.18	
G28	1998.31	1924.96	1997.13	1963.73	2018.3	2080.47	2025.23	2045.63	1998.31	
G29	1966.07	1893.67	1967.24	1929.51	1983.9	2051.97	1993.44	2017.44	1966.07	
G30	1935.63	1856.66	1933.88	1899.43	1953.19	2021.76	1959.4	1988.99	1935.63	
G31	1901.86	1817.44	1899.61	1860.35	1917.89	1993.08	1925.46	1957.51	1901.86	
G32	1864.99	1781.38	1863.37	1825.19	1890.07	1961.7	1889.98	1923.39	1864.99	
G33	1829.51	1740.0	1827.93	1786.78	1850.18	1932.98	1857.06	1889.17	1829.51	
G34	1793.22	1696.87	1789.03	1746.89	1812.99	1895.06	1816.59	1853.96	1793.22	
G35	1752.88	1651.89	1747.88	1705.33	1774.09	1860.49	1775.62	1817.67	1752.88	
G36	1709.97	1604.16	1703.49	1662.07	1737.08	1820.01	1736.94	1777.69	1709.97	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1665.35	1555.09	1658.6	1612.81	1690.66	1782.55	1693.58	1734.42	1665.35	
G38	1621.36	1501.24	1610.87	1567.2	1645.63	1738.2	1642.3	1692.1	1621.36	
G39	1569.5	1447.66	1566.3	1513.58	1599.17	1695.07	1594.53	1647.66	1569.5	
G40	1516.82	1391.11	1511.01	1459.55	1551.49	1651.08	1544.55	1597.64	1516.82	
G41	1463.87	1335.1	1458.51	1403.67	1497.55	1605.83	1495.88	1546.4	1463.87	
G42	1409.84	1277.47	1399.62	1345.37	1444.01	1556.84	1437.71	1495.03	1409.84	
G43	1350.41	1219.25	1345.68	1288.19	1389.98	1501.64	1381.88	1439.42	1350.41	
G44	1289.76	1158.92	1286.11	1229.74	1330.82	1448.47	1323.48	1384.0	1289.76	
G45	1232.31	1098.95	1225.47	1168.15	1272.34	1392.1	1265.99	1326.14	1232.31	
G46	1174.99	1041.14	1165.99	1109.21	1213.54	1335.33	1205.7	1268.37	1174.99	
G47	1110.2	983.33	1108.85	1049.29	1153.7	1278.19	1144.15	1209.53	1110.2	
G48	1051.31	928.53	1047.8	992.33	1095.48	1218.98	1085.49	1148.07	1051.31	
G49	994.67	873.74	989.81	933.75	1035.19	1160.09	1027.45	1087.47	994.67	
G50	937.27	821.24	934.88	879.64	978.01	1098.41	969.01	1028.44	937.27	
G51	882.2	771.31	881.98	828.13	923.08	1038.93	913.13	972.43	882.2	
G52	827.77	723.72	831.96	779.5	873.15	983.69	858.92	918.45	827.77	
G53	778.06	676.67	781.08	729.3	817.95	927.09	810.16	864.51	778.06	
G54	730.2	631.01	731.55	682.84	768.88	872.21	758.66	814.49	730.2	
G55	681.39	586.71	685.67	637.09	720.3	821.42	709.13	764.87	681.39	
G56	634.61	545.15	640.02	594.54	674.87	771.76	662.21	715.79	634.61	
G57	591.26	504.63	596.43	552.18	628.45	721.92	619.4	668.92	591.26	
G58	549.52	463.79	554.2	510.3	585.18	675.18	574.51	624.03	549.52	
G59	506.84	425.61	513.36	470.41	541.5	630.43	531.01	579.64	506.84	
G60	467.26	387.21	472.84	430.61	501.52	585.54	490.54	537.32	467.26	
G61	427.05	350.47	434.26	391.44	459.47	542.86	450.69	496.8	427.05	
G62	387.21	313.59	396.21	354.43	419.76	501.61	411.48	455.64	387.21	
G63	350.38	279.1	360.28	318.41	381.94	461.18	373.57	416.07	350.38	
G64	313.5	245.2	324.04	283.2	345.02	421.83	336.65	378.38	313.5	
G65	278.79	213.23	288.33	249.16	307.65	383.38	301.12	341.15	278.79	
G66	246.01	182.08	253.58	217.11	272.4	345.88	266.09	305.71	246.01	
G67	212.69	153.67	221.43	186.22	238.54	310.04	232.32	270.59	212.69	
G68	181.54	126.7	189.73	157.49	207.16	274.56	200.13	236.56	181.54	
G69	153.98	101.93	160.92	130.57	176.54	240.65	170.73	204.0	153.98	
G70	127.87	78.57	133.63	105.22	148.49	208.6	142.5	174.87	127.87	
G71	102.56	57.36	107.88	82.21	121.02	178.52	116.25	145.74	102.56	
G72	79.11	38.63	84.01	60.11	96.49	149.48	90.68	118.73	79.11	
G73	57.99	23.23	62.63	40.7	73.07	122.51	68.08	93.83	57.99	

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