

Report No.:

Test Time: 2024/9/20 10:44:25

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H116-60°-25W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 70 mm

Voltage(V): 219.70 V
Current(A): 0.1170 A
Power(W): 25.03 W
Power Factor: 0.9680
Lamp Luminous Flux: 2300.78

Photometric Results

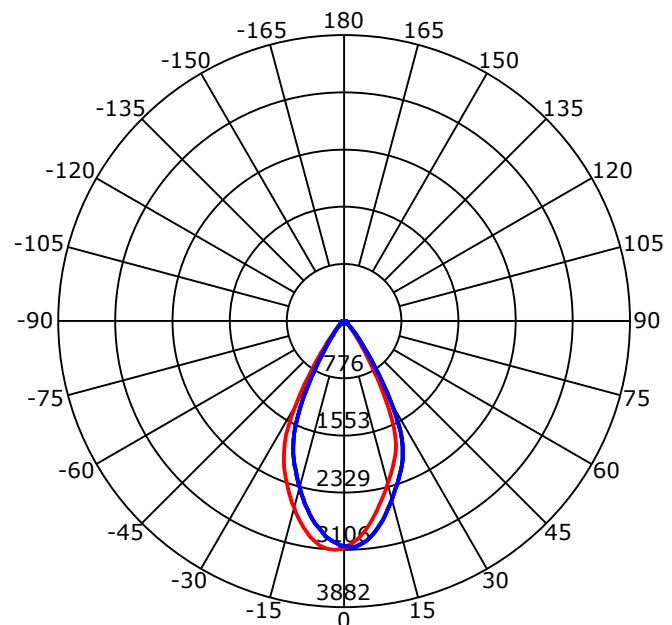
CIE Class: Direct
Luminaire Luminous Flux: 2300.781 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.92 lm/W
Beam Angle(50%) C0-180,C90-270: 53.8,53.4
Field Angle(10%) C0-180,C90-270: 76.5,77.0
S/MH C0-180,C90-270: 0.849,0.808

Max. Intensity: 3105.67 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3078.96 cd
Effective Luminous Flux: 2048.77 lm
ERP(ϕ use)(120deg): 2234.55 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 53.8 deg,53.4 deg

C0-180 — C90-270 —

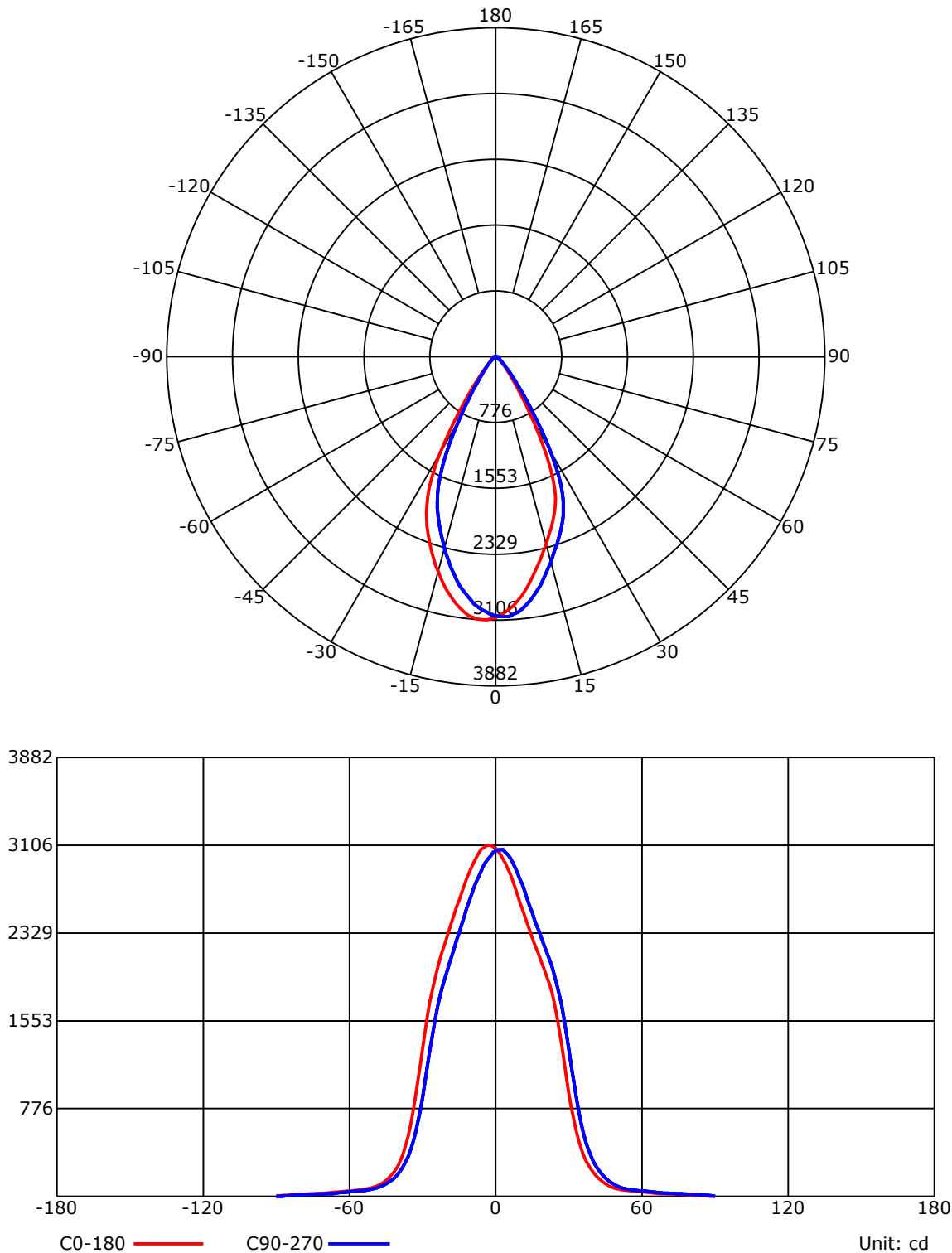
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/20 10:44:25

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



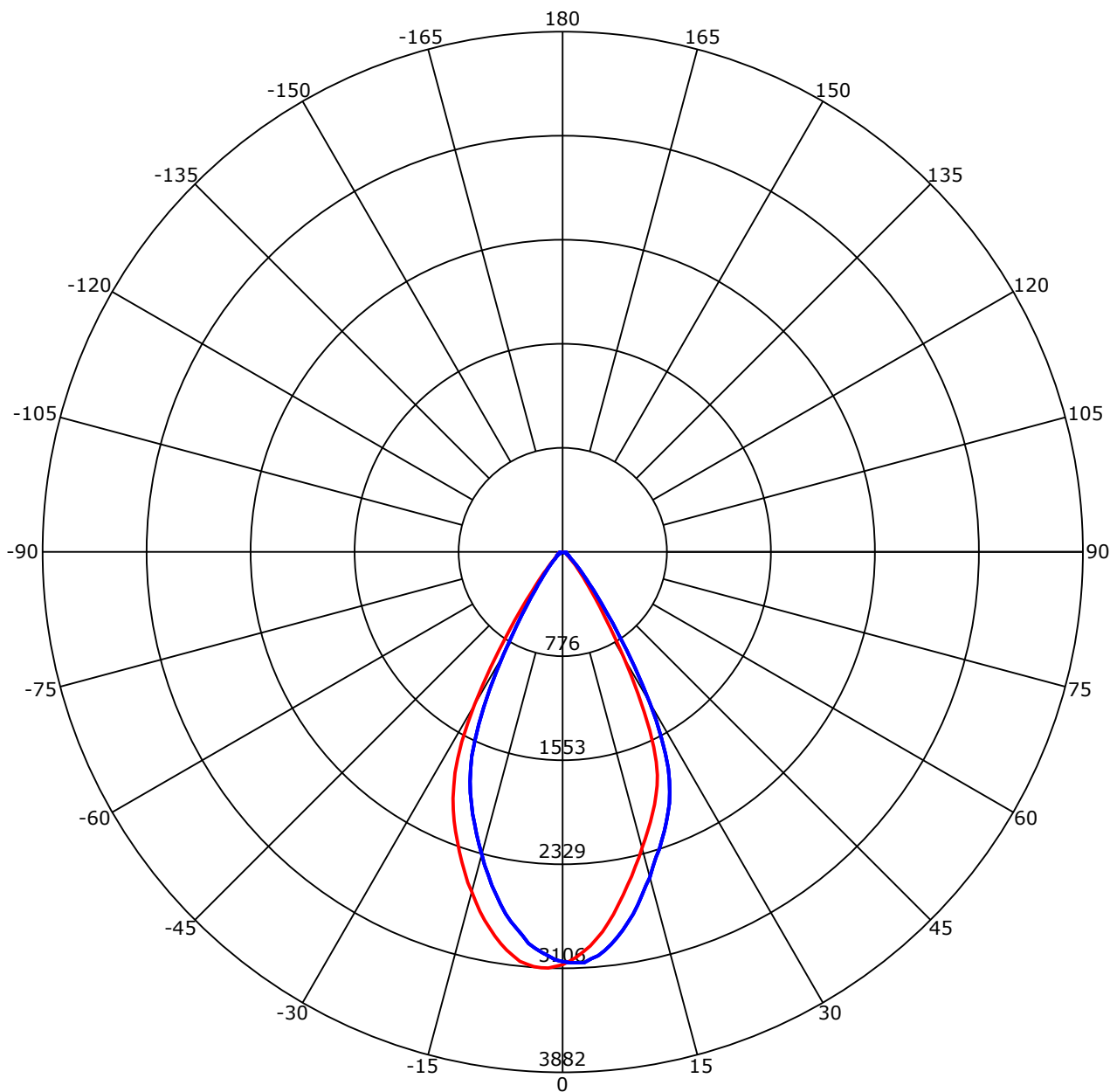
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

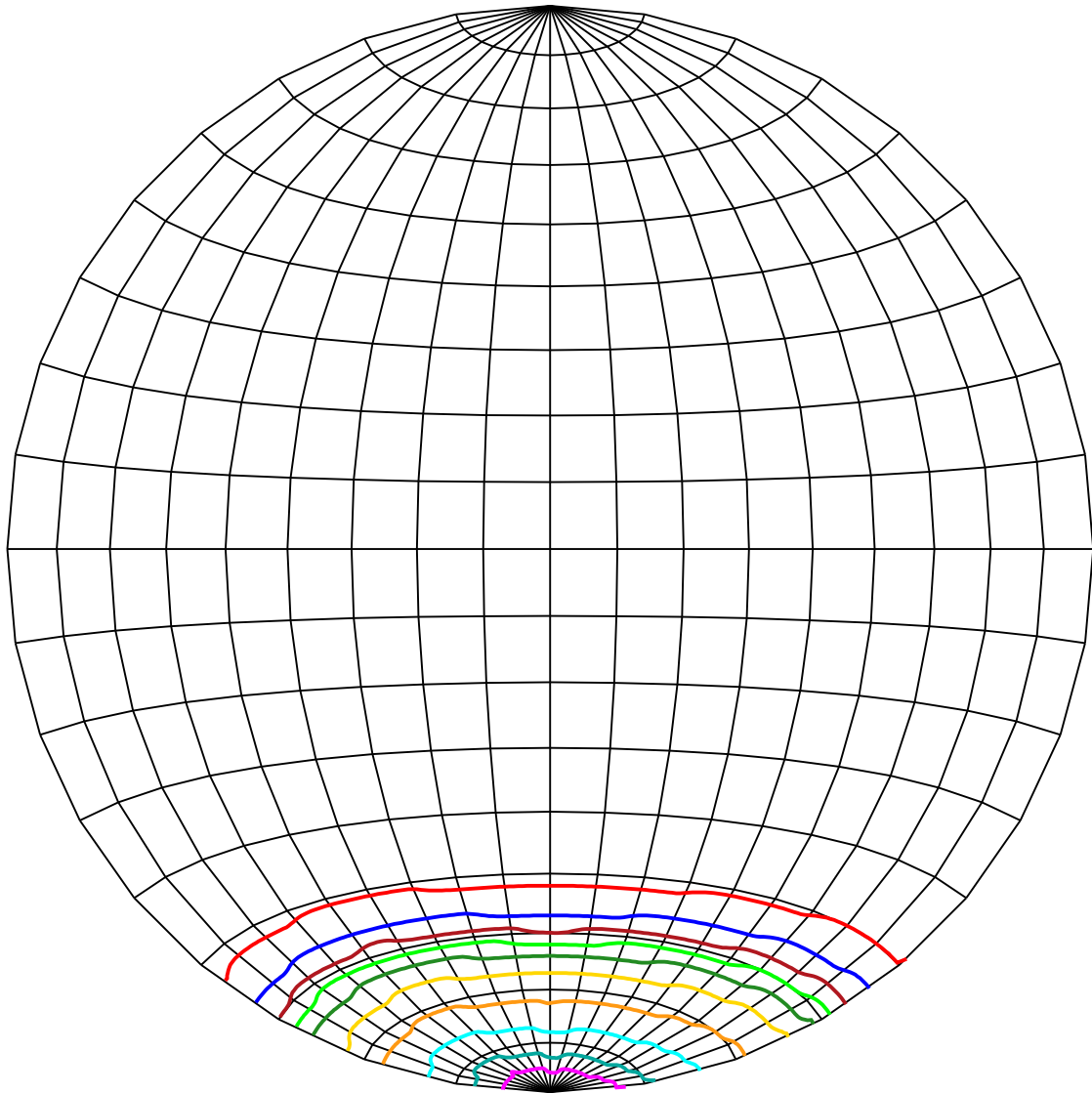
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 3105.668 cd

2950.385(95%I _{max})	1552.834(50%I _{max})
2795.102(90%I _{max})	1242.267(40%I _{max})
2484.535(80%I _{max})	931.701(30%I _{max})
2173.968(70%I _{max})	621.134(20%I _{max})
1863.401(60%I _{max})	310.567(10%I _{max})

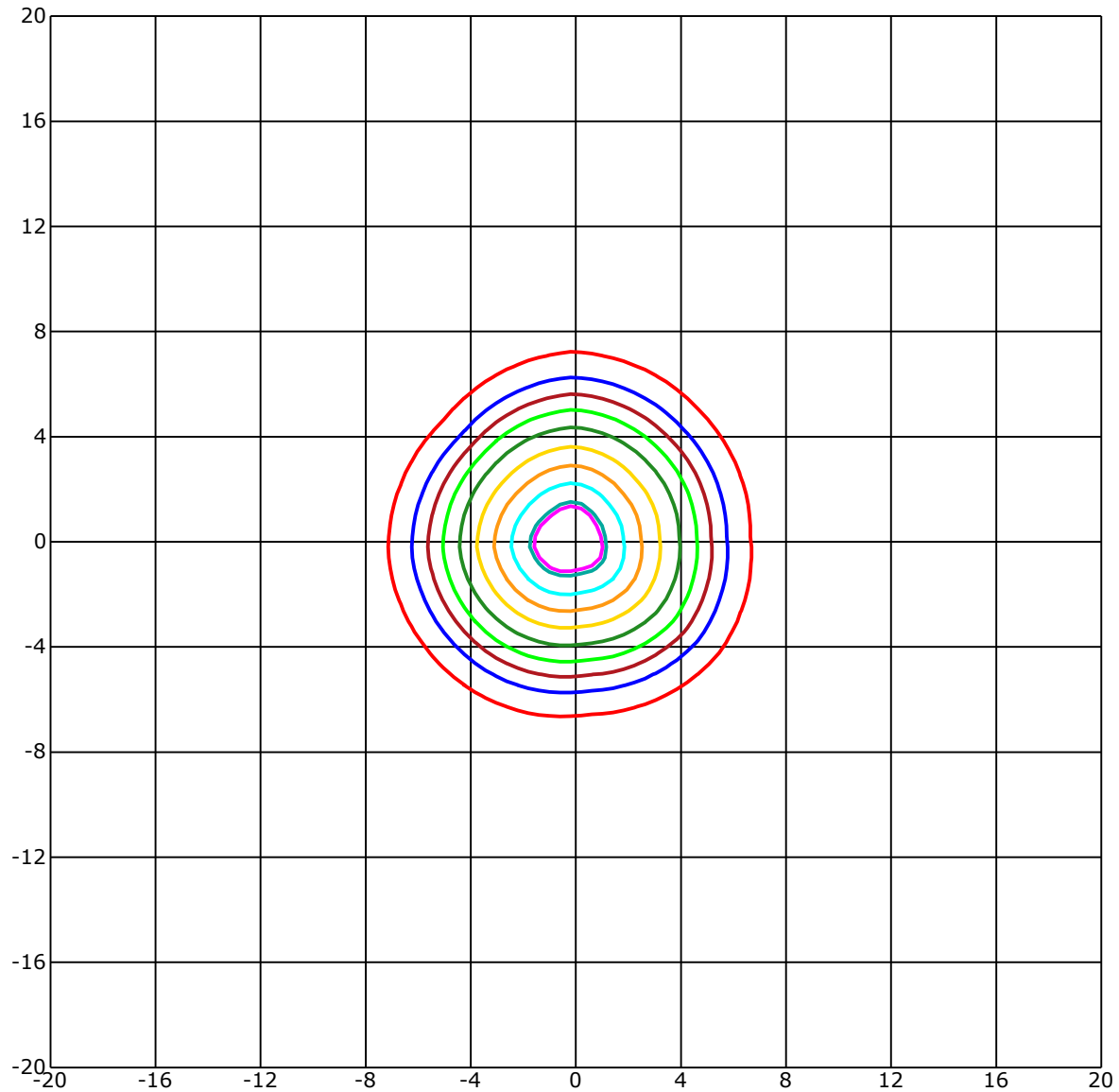
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ISOLX DIAGRAM



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

28.52(92%Emax)	15.5(50%Emax)
27.9(90%Emax)	12.4(40%Emax)
24.8(80%Emax)	9.3(30%Emax)
21.7(70%Emax)	6.2(20%Emax)
18.6(60%Emax)	3.1(10%Emax)

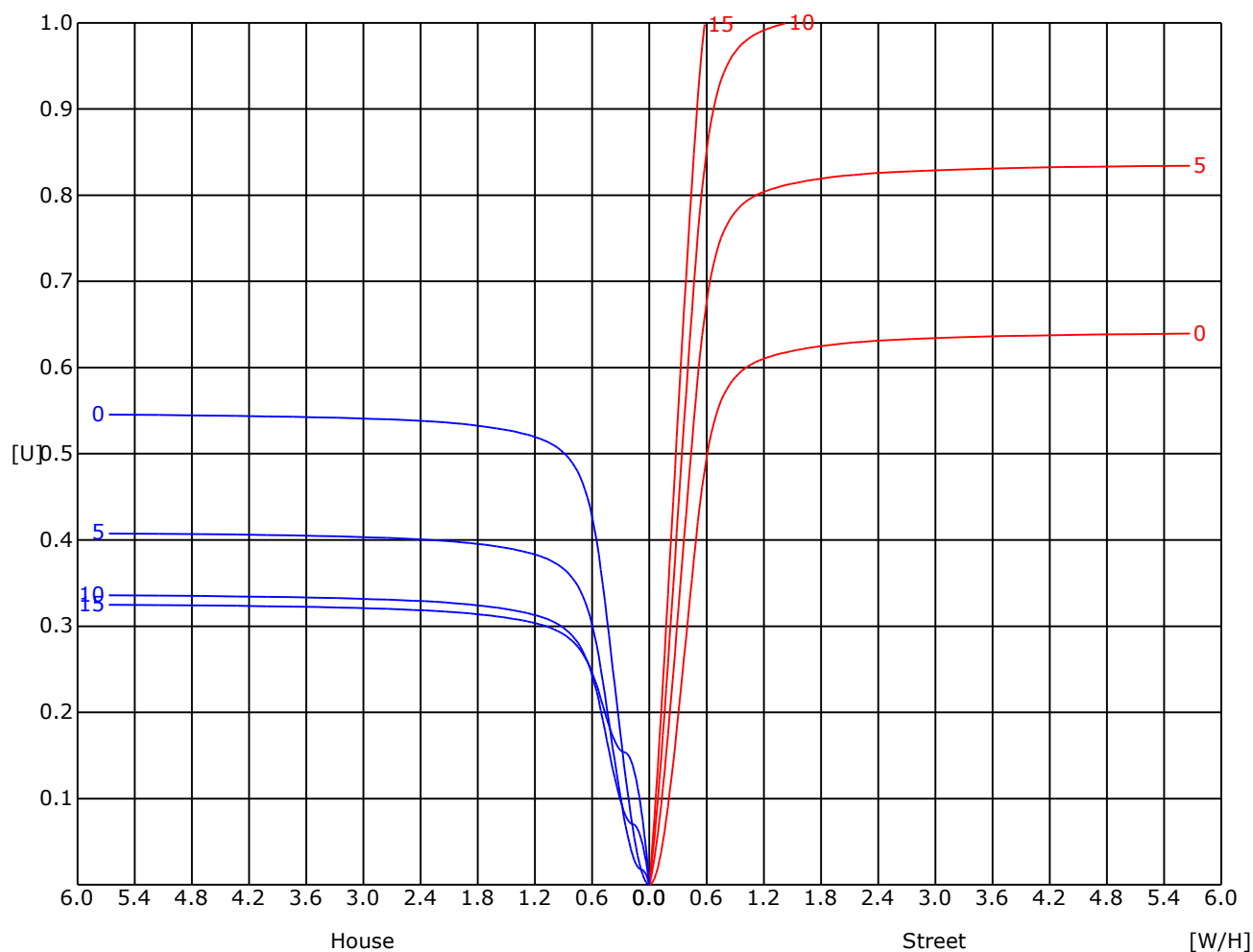
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UTILIZATION FACTOR DIAGRAM (ROAD)



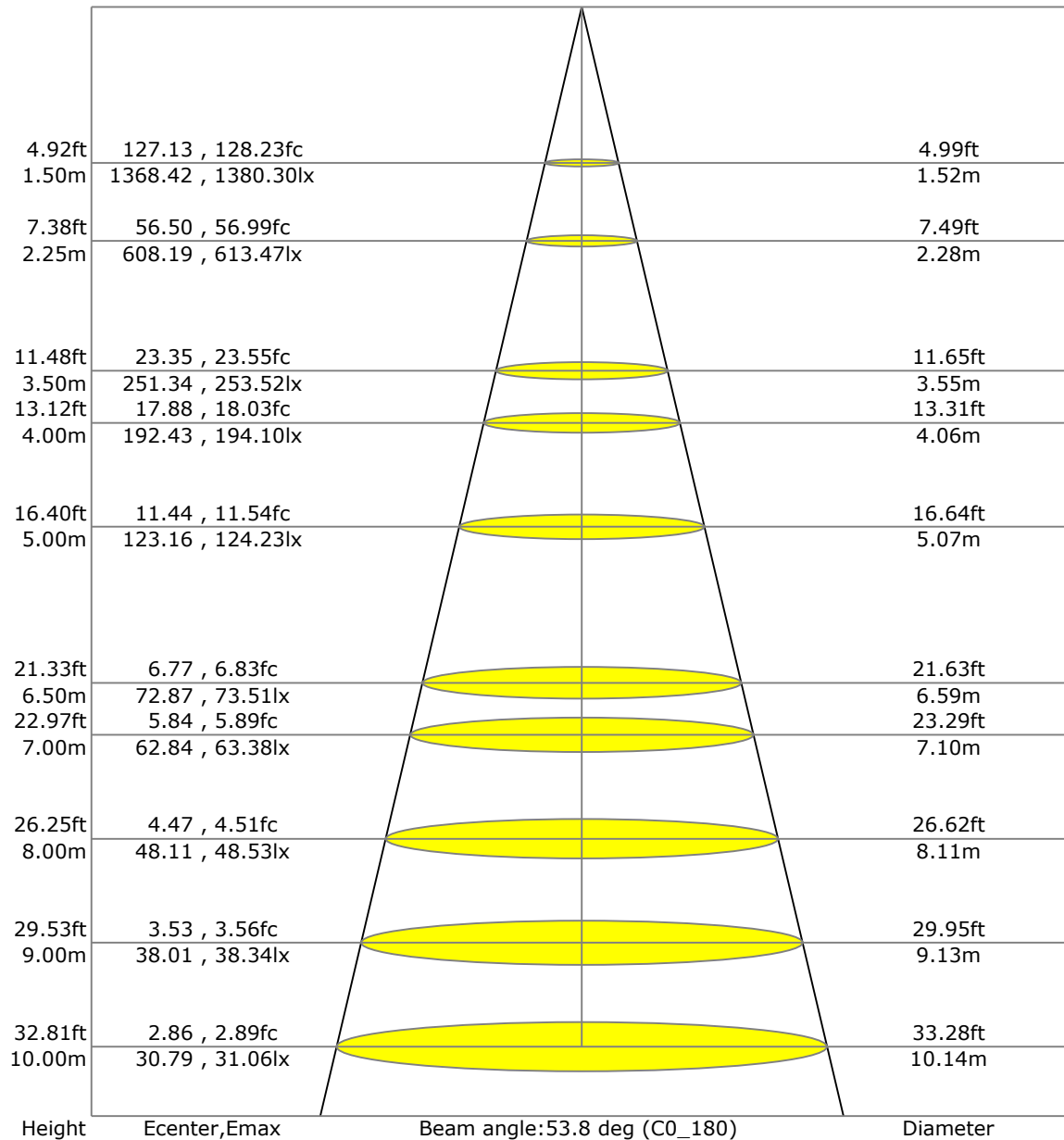
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LX-DISTANCE DIAGRAM



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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	14.26	14.31	14.45	14.49	14.74	14.41	14.47	14.61	14.65	14.90
3H	14.27	14.32	14.48	14.52	14.76	14.42	14.47	14.63	14.67	14.91
4H	14.27	14.32	14.48	14.52	14.76	14.41	14.47	14.63	14.66	14.91
6H	14.25	14.31	14.47	14.51	14.76	14.40	14.45	14.62	14.65	14.90
8H	14.25	14.30	14.46	14.50	14.75	14.39	14.44	14.61	14.65	14.90
12H	14.24	14.29	14.46	14.49	14.75	14.38	14.43	14.60	14.64	14.89
4H 2H	14.78	14.84	14.99	15.03	15.28	15.09	15.14	15.30	15.34	15.59
3H	14.90	14.95	15.12	15.16	15.41	15.20	15.25	15.42	15.45	15.71
4H	14.93	14.99	15.16	15.20	15.46	15.22	15.27	15.45	15.49	15.74
6H	14.95	15.00	15.18	15.22	15.48	15.23	15.27	15.46	15.50	15.76
8H	14.94	14.99	15.19	15.22	15.48	15.22	15.27	15.46	15.49	15.76
12H	14.93	14.98	15.18	15.21	15.48	15.21	15.25	15.45	15.48	15.75
8H 4H	15.04	15.09	15.26	15.29	15.54	15.49	15.54	15.71	15.74	16.00
6H	15.41	15.46	15.67	15.69	15.97	15.87	15.92	16.13	16.16	16.43
8H	15.43	15.47	15.69	15.72	15.99	15.88	15.92	16.14	16.17	16.45
12H	15.44	15.48	15.70	15.73	16.01	15.88	15.92	16.15	16.17	16.45
12H 4H	15.44	15.48	15.68	15.71	15.98	16.04	16.09	16.29	16.32	16.59
6H	15.53	15.58	15.79	15.82	16.10	16.15	16.19	16.41	16.43	16.71

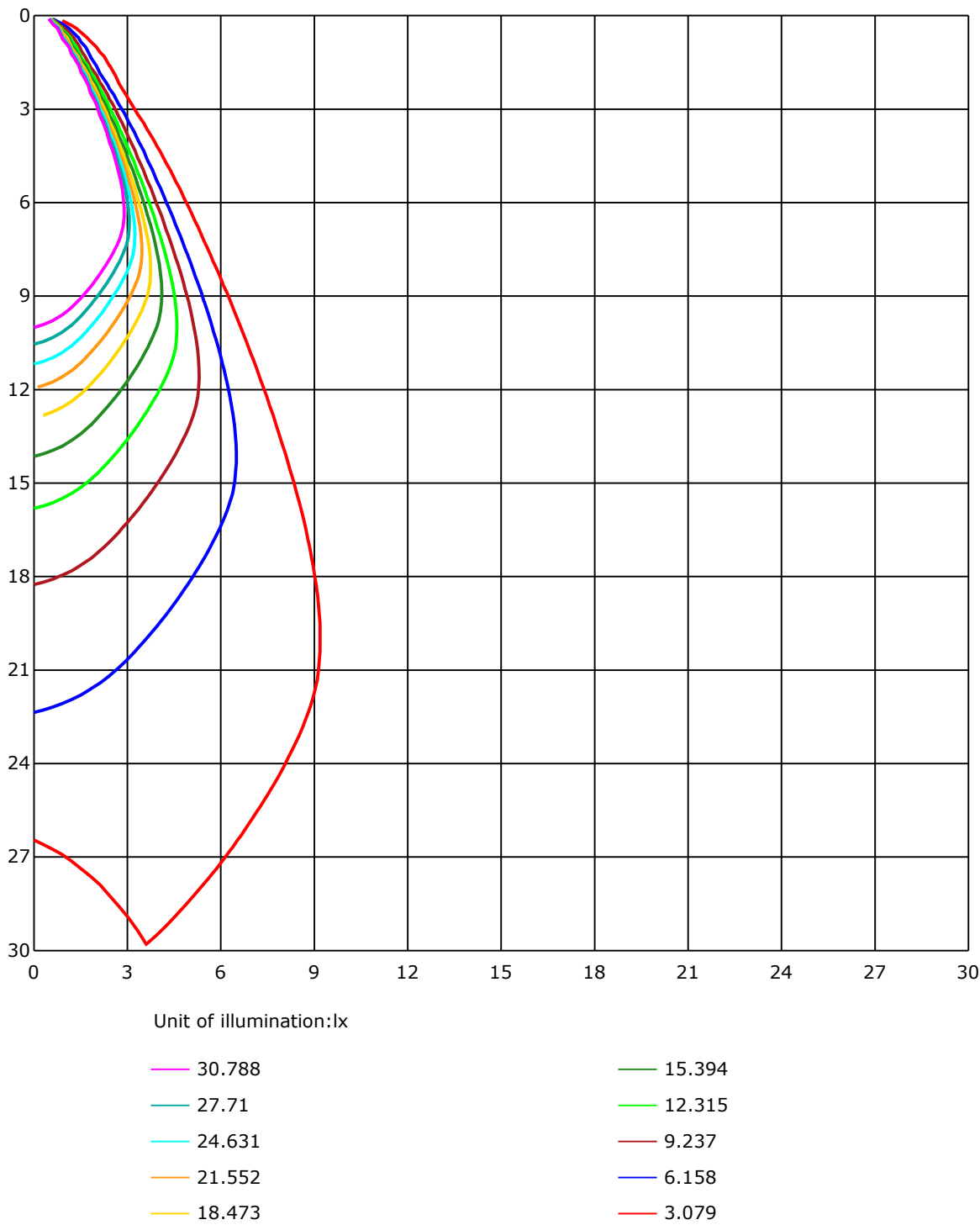
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SPACE ISOLX DIAGRAM



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 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
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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	3078.96	3054.05	3055.58	3083.04	3078.96	3054.05	3055.58	3083.04	3078.96	
G1	3051.08	3040.7	3064.81	3088.18	3091.38	3065.55	3044.41	3070.7	3051.08	
G2	3022.33	3019.46	3066.39	3080.67	3105.67	3061.75	3015.14	3050.99	3022.33	
G3	2983.61	2991.54	3068.48	3070.56	3105.25	3050.34	2990.38	3019.69	2983.61	
G4	2946.69	2960.33	3043.01	3044.13	3101.54	3030.21	2962.09	2986.06	2946.69	
G5	2896.56	2915.62	3023.63	3025.67	3085.68	3000.63	2930.27	2952.63	2896.56	
G6	2848.28	2867.25	2990.61	2989.17	3070.79	2975.49	2875.13	2913.39	2848.28	
G7	2787.99	2817.77	2950.77	2954.39	3035.18	2942.01	2828.62	2866.46	2787.99	
G8	2728.54	2759.33	2907.04	2902.49	2998.63	2903.01	2784.65	2811.74	2728.54	
G9	2661.34	2696.96	2857.05	2859.78	2957.59	2854.87	2732.16	2757.48	2661.34	
G10	2596.46	2637.36	2803.16	2800.98	2910.38	2810.76	2669.22	2692.6	2596.46	
G11	2532.78	2578.88	2752.89	2750.66	2856.68	2750.2	2602.4	2633.65	2532.78	
G12	2472.82	2517.3	2689.81	2686.29	2807.19	2692.09	2543.87	2571.74	2472.82	
G13	2408.73	2460.11	2625.68	2635.97	2749.59	2627.11	2471.2	2511.92	2408.73	
G14	2349.14	2397.23	2564.18	2569.79	2687.5	2564.69	2406.55	2447.27	2349.14	
G15	2286.99	2338.79	2512.66	2508.72	2623.26	2502.64	2336.89	2387.81	2286.99	
G16	2230.04	2279.57	2441.98	2444.62	2566.41	2433.63	2269.42	2321.03	2230.04	
G17	2172.58	2220.12	2382.25	2386.79	2497.72	2365.6	2198.0	2256.94	2172.58	
G18	2117.3	2166.51	2331.51	2323.95	2434.37	2295.29	2128.62	2196.37	2117.3	
G19	2057.38	2113.45	2271.13	2258.56	2365.46	2225.08	2066.29	2138.73	2057.38	
G20	2002.85	2058.03	2215.02	2192.8	2298.54	2164.88	1994.17	2076.95	2002.85	
G21	1941.95	1997.42	2158.07	2127.37	2231.94	2089.8	1924.52	2018.15	1941.95	
G22	1879.21	1940.65	2097.17	2056.22	2163.68	2018.75	1845.03	1953.41	1879.21	
G23	1808.25	1870.21	2036.93	1986.24	2088.92	1934.72	1760.95	1891.36	1808.25	
G24	1713.64	1794.01	1961.01	1897.06	2011.05	1854.16	1667.22	1816.78	1713.64	
G25	1606.61	1701.54	1881.15	1803.29	1922.99	1769.39	1554.06	1734.65	1606.61	
G26	1481.67	1586.16	1794.66	1690.22	1832.51	1663.23	1430.33	1632.9	1481.67	
G27	1339.67	1460.2	1691.2	1557.45	1726.91	1539.83	1298.95	1515.66	1339.67	
G28	1198.22	1326.68	1568.76	1413.5	1604.71	1405.15	1161.03	1381.03	1198.22	
G29	1050.88	1189.73	1438.03	1264.44	1459.87	1263.05	1021.06	1240.56	1050.88	
G30	910.08	1050.74	1300.34	1103.33	1315.41	1118.82	881.66	1093.78	910.08	
G31	786.26	913.28	1156.34	952.33	1163.72	977.01	760.61	953.49	786.26	
G32	675.42	788.63	1012.58	813.72	1012.58	846.78	651.45	821.97	675.42	
G33	578.45	678.48	878.09	692.12	871.27	723.75	555.68	706.49	578.45	
G34	496.73	584.2	756.39	584.06	741.46	616.2	475.82	603.31	496.73	
G35	426.06	501.6	651.54	493.3	626.26	526.32	408.3	518.67	426.06	
G36	367.25	434.03	560.13	418.92	530.54	449.43	351.21	445.03	367.25	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	318.51	376.11	480.18	356.59	447.39	384.37	303.02	384.13	318.51	
G38	277.24	325.24	414.46	303.67	378.94	330.62	263.37	333.86	277.24	
G39	242.64	282.85	359.28	259.15	323.15	285.26	229.79	290.82	242.64	
G40	213.14	248.11	311.09	224.23	276.31	247.83	201.74	254.65	213.14	
G41	186.8	218.43	272.13	195.01	239.58	217.46	176.92	224.23	186.8	
G42	163.89	191.95	239.39	169.37	209.06	190.65	156.19	198.35	163.89	
G43	143.91	168.21	209.99	147.99	183.32	168.35	139.22	175.44	143.91	
G44	127.3	147.94	184.25	128.97	160.97	149.42	124.33	155.73	127.3	
G45	112.0	130.41	163.01	113.48	141.35	133.66	110.84	138.06	112.0	
G46	98.27	114.97	143.91	99.66	125.17	119.7	99.01	122.76	98.27	
G47	87.65	101.38	127.4	88.58	111.3	107.87	89.6	109.63	87.65	
G48	78.61	89.78	112.93	79.16	99.66	97.58	80.65	97.95	78.61	
G49	71.19	80.0	99.85	71.88	89.69	88.67	73.37	88.58	71.19	
G50	65.62	71.6	89.32	65.67	81.76	81.25	67.52	81.11	65.62	
G51	61.45	65.34	81.07	60.98	75.36	74.94	62.84	75.31	61.45	
G52	57.78	60.43	74.2	57.6	70.72	69.75	59.04	70.07	57.78	
G53	55.0	56.76	68.64	54.96	66.55	65.58	55.74	66.13	55.0	
G54	52.54	53.43	64.37	52.27	63.21	62.14	53.33	62.79	52.54	
G55	50.41	50.78	60.89	50.04	60.29	59.04	50.92	60.1	50.41	
G56	48.37	48.28	57.69	47.67	58.02	56.76	49.16	57.37	48.37	
G57	46.05	46.33	55.28	45.63	55.42	54.31	46.56	55.14	46.05	
G58	44.15	44.61	52.96	44.06	53.05	52.08	44.52	52.87	44.15	
G59	42.3	42.81	50.92	42.06	51.01	50.18	42.71	50.87	42.3	
G60	40.35	41.09	48.46	40.39	48.51	47.72	40.67	48.09	40.35	
G61	38.07	39.23	46.47	38.72	46.7	45.54	38.86	45.96	38.07	
G62	36.13	37.19	44.24	37.15	44.75	43.5	36.92	43.83	36.13	
G63	34.04	35.38	42.34	35.43	42.67	41.65	34.74	41.78	34.04	
G64	31.81	33.44	40.44	33.81	40.9	39.56	32.6	39.1	31.81	
G65	29.12	31.35	38.63	32.46	39.23	37.61	30.1	36.82	29.12	
G66	26.2	29.03	36.59	30.42	37.33	35.25	26.9	33.9	26.2	
G67	24.72	26.48	34.64	28.01	35.38	32.32	25.04	30.75	24.72	
G68	24.3	24.63	31.77	25.83	32.88	29.82	24.25	28.85	24.3	
G69	23.47	23.88	29.59	24.58	30.1	28.61	23.56	27.87	23.47	
G70	22.68	23.23	28.38	23.88	28.89	27.64	22.72	27.08	22.68	
G71	22.03	22.68	27.64	23.19	27.78	26.94	22.12	26.2	22.03	
G72	21.24	21.7	26.53	22.45	26.99	25.83	21.43	25.41	21.24	
G73	20.27	20.92	25.79	21.8	26.11	25.0	20.64	24.67	20.27	

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