

Report No.:

Test Time: 2024/4/24 11:30:00

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT120-45°-28.9W
Lamp Type:
Luminous Width: 108 mm
Luminous Length: 108 mm
Luminous Height: 104 mm

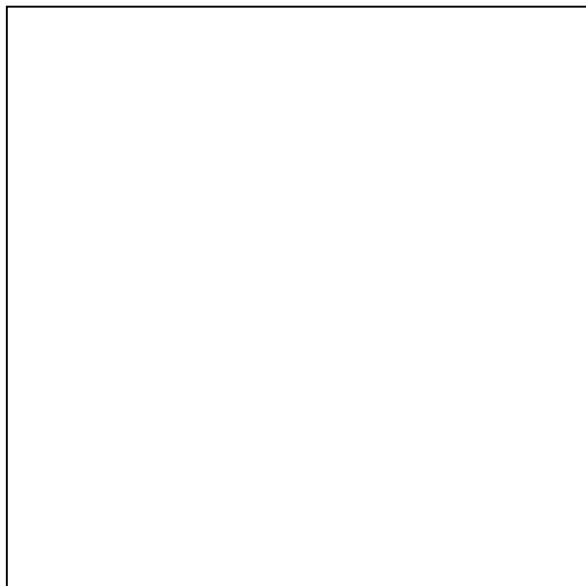
Voltage(V): 219.80 V
Current(A): 0.1380 A
Power(W): 28.85 W
Power Factor: 0.9450
Lamp Luminous Flux: 2934.80

Photometric Results

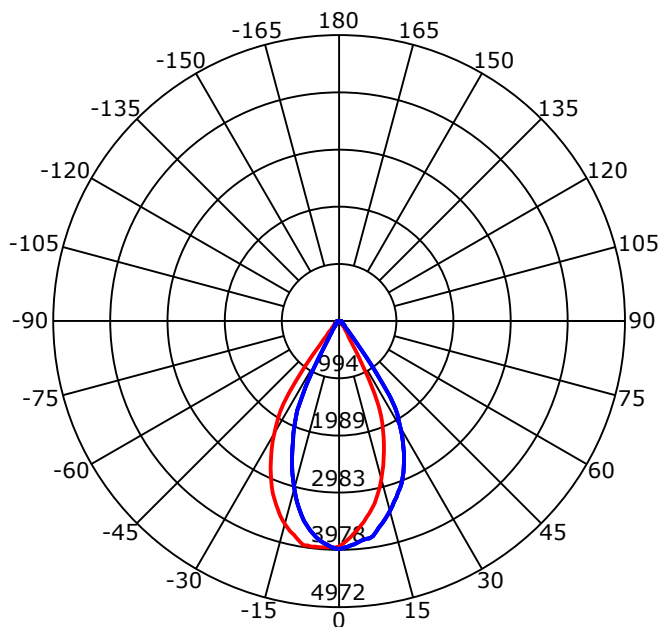
CIE Class: Direct
Luminaire Luminous Flux: 2934.798 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 101.73 lm/W
Beam Angle(50%) C0-180,C90-270: 54.8,54.4
Field Angle(10%) C0-180,C90-270: 70.8,70.4
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 3977.61 cd
Max.Intensity Angle: C=225 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3918.67 cd
Effective Luminous Flux: 2625.16 lm
ERP(ϕ use)(120deg): 2856.46 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 54.8 deg,54.4 deg

C0-180 — C90-270 —

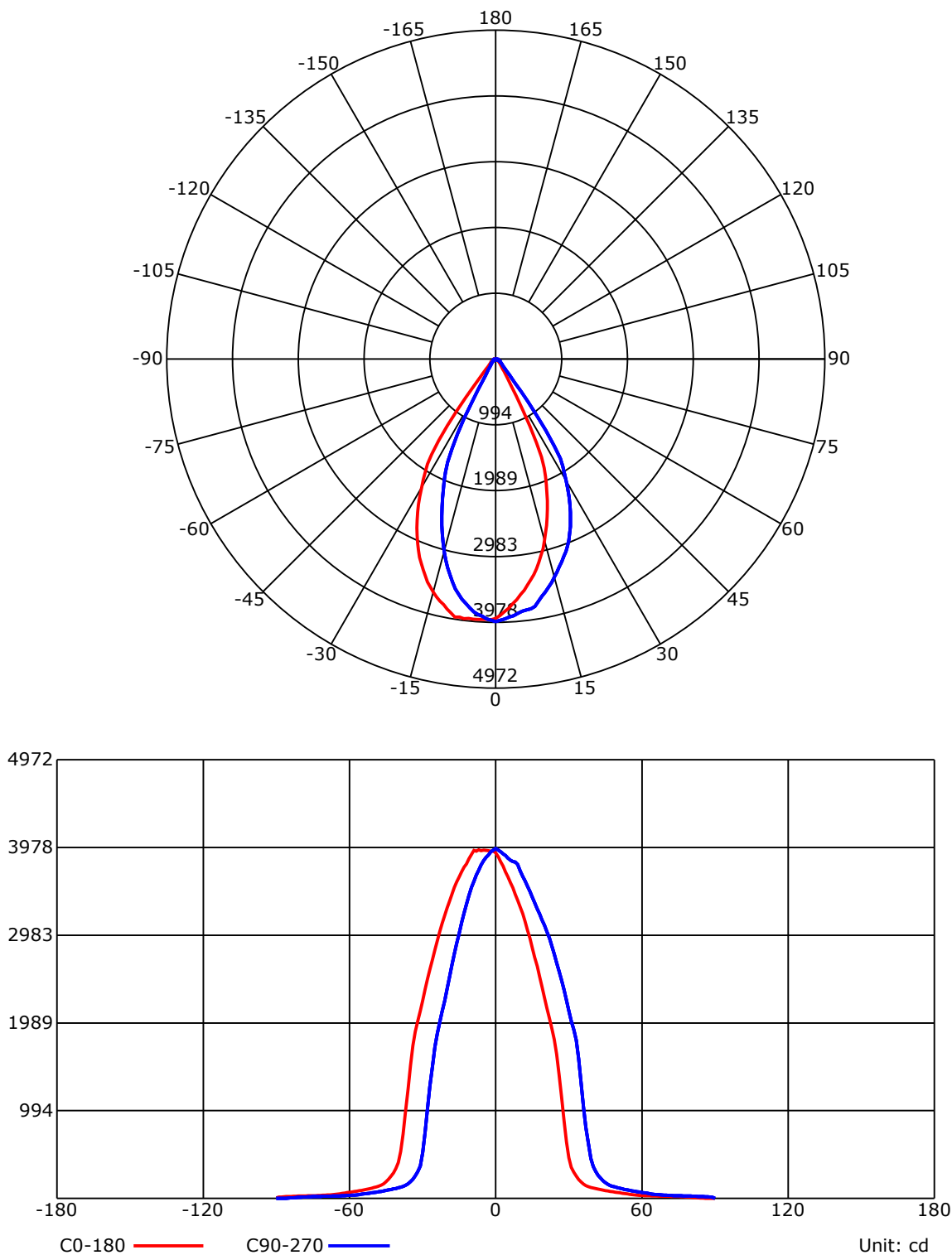
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/24 11:30:00

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



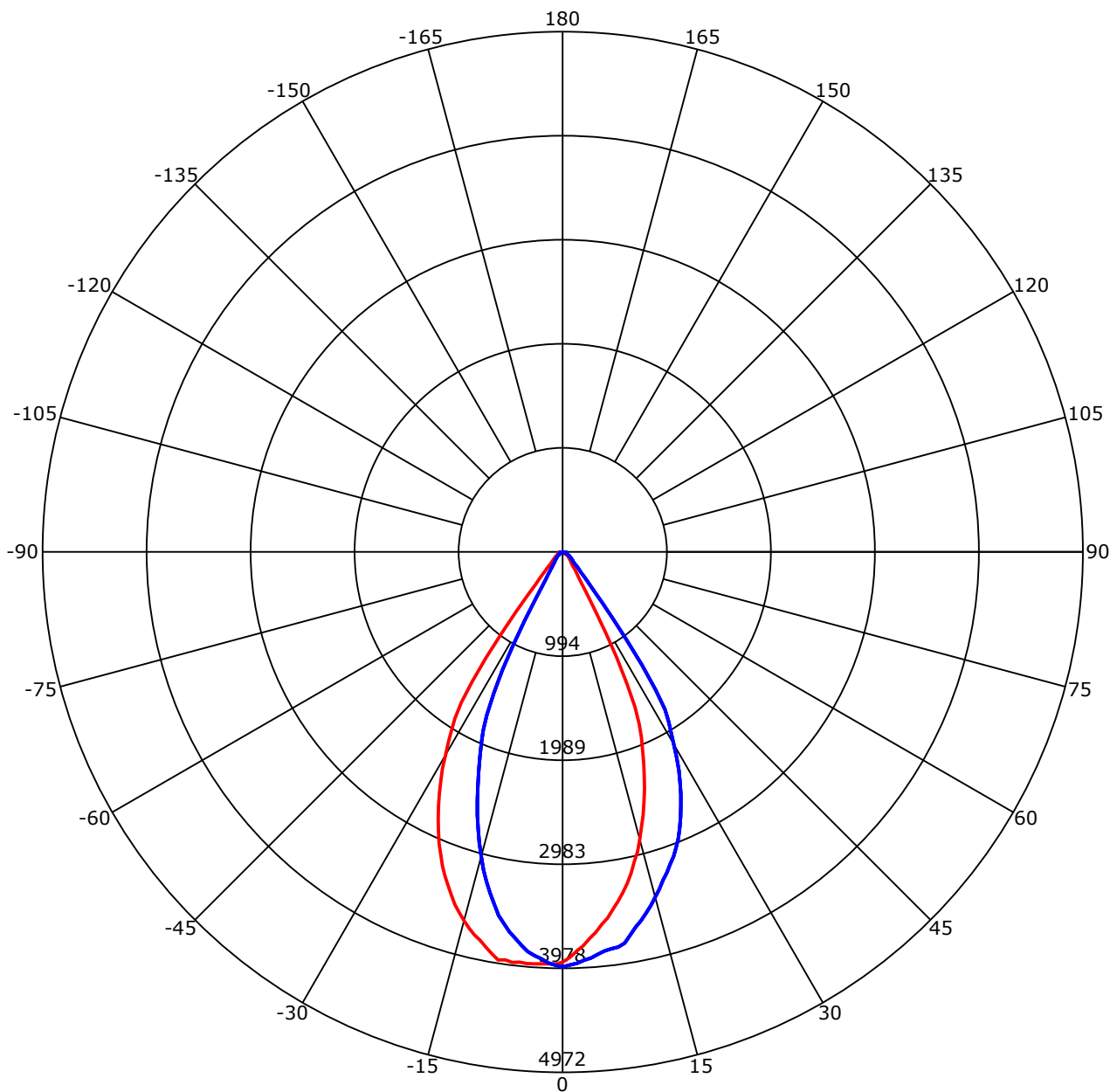
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

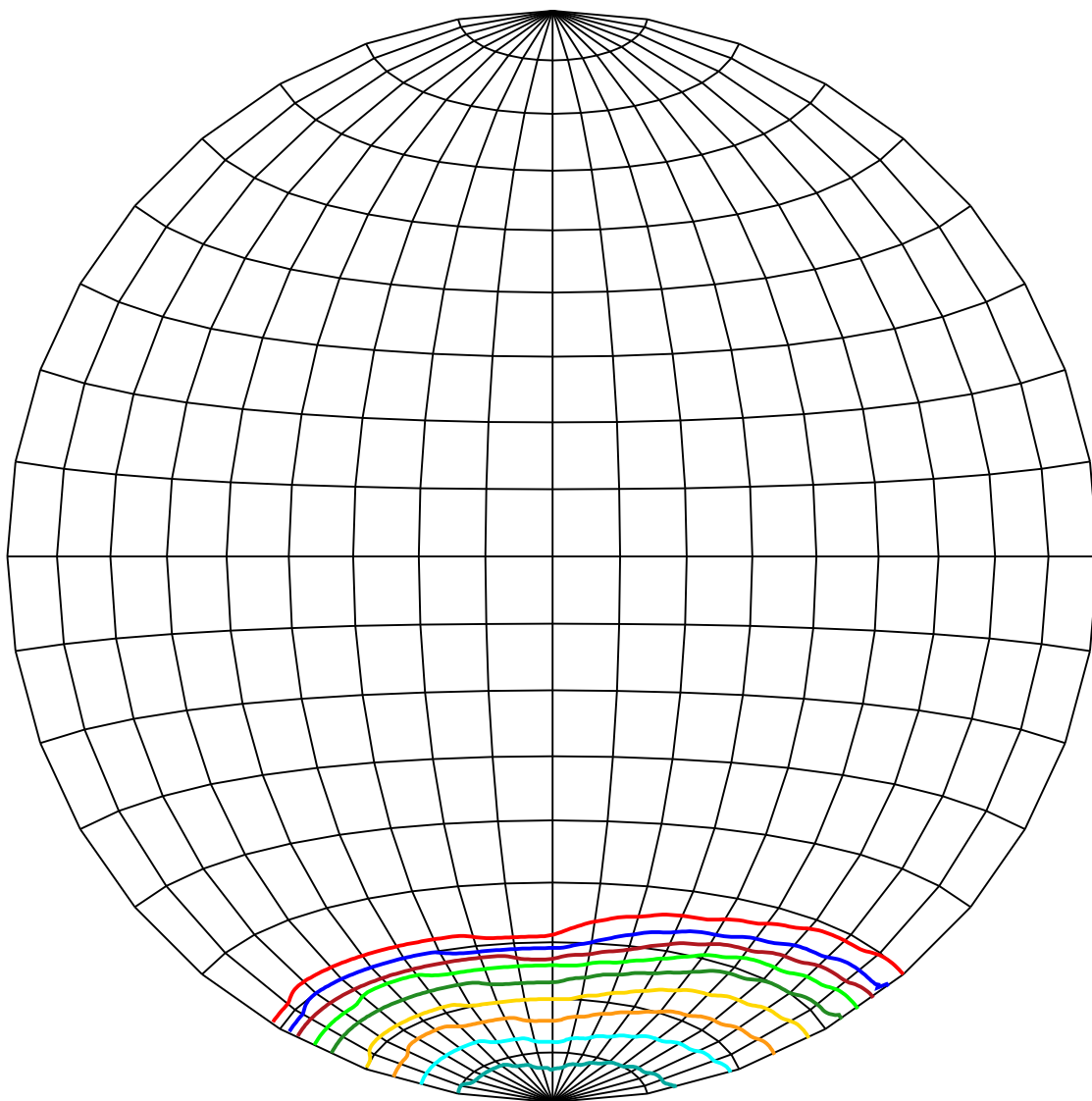
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 3977.613 cd

3778.732(95%Imax)	1988.807(50%Imax)
3579.852(90%Imax)	1591.045(40%Imax)
3182.091(80%Imax)	1193.284(30%Imax)
2784.329(70%Imax)	795.523(20%Imax)
2386.568(60%Imax)	397.761(10%Imax)

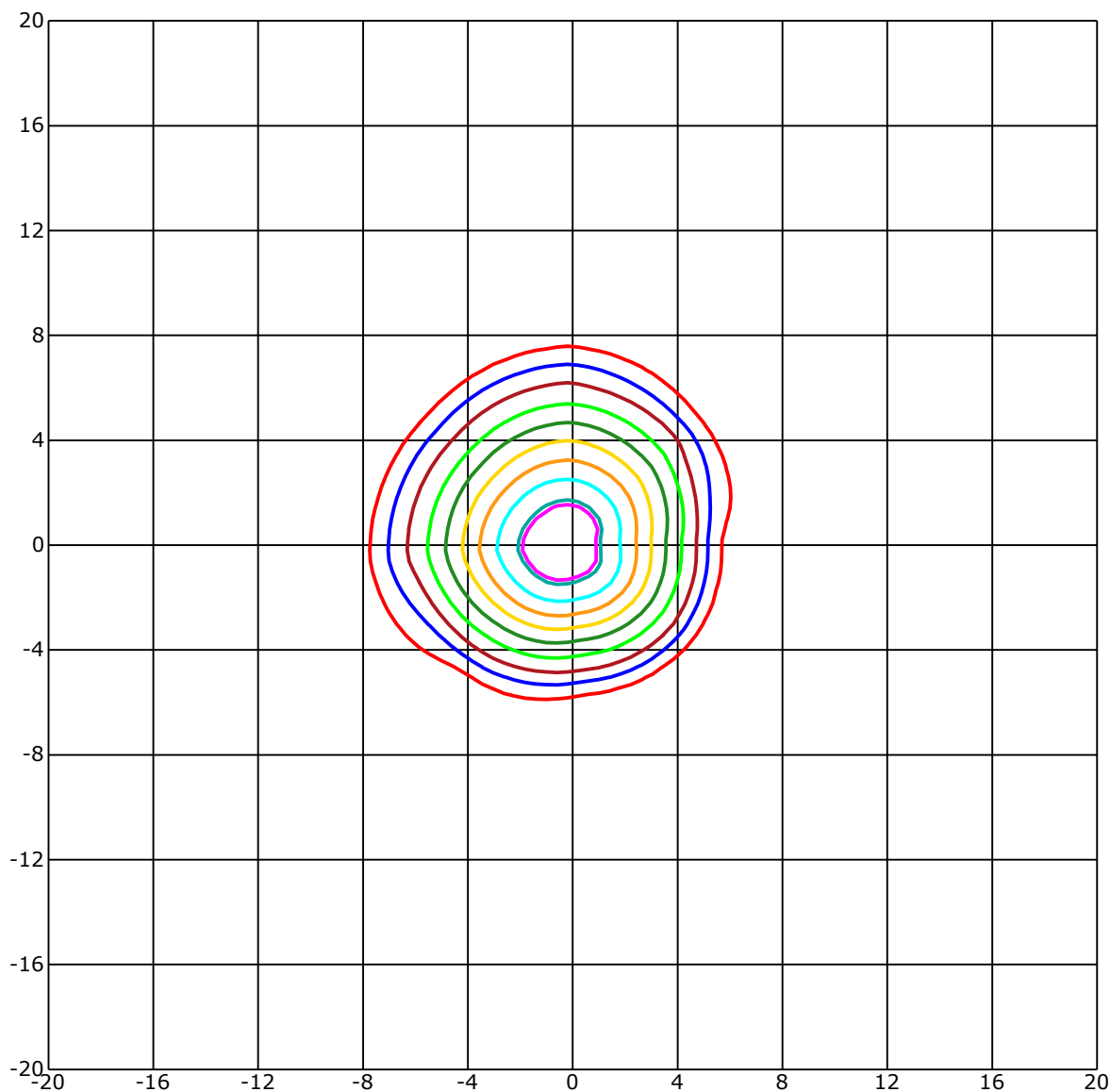
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ISOLX DIAGRAM



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

36.485(92%Emax)	19.829(50%Emax)
35.692(90%Emax)	15.863(40%Emax)
31.726(80%Emax)	11.897(30%Emax)
27.76(70%Emax)	7.931(20%Emax)
23.794(60%Emax)	3.966(10%Emax)

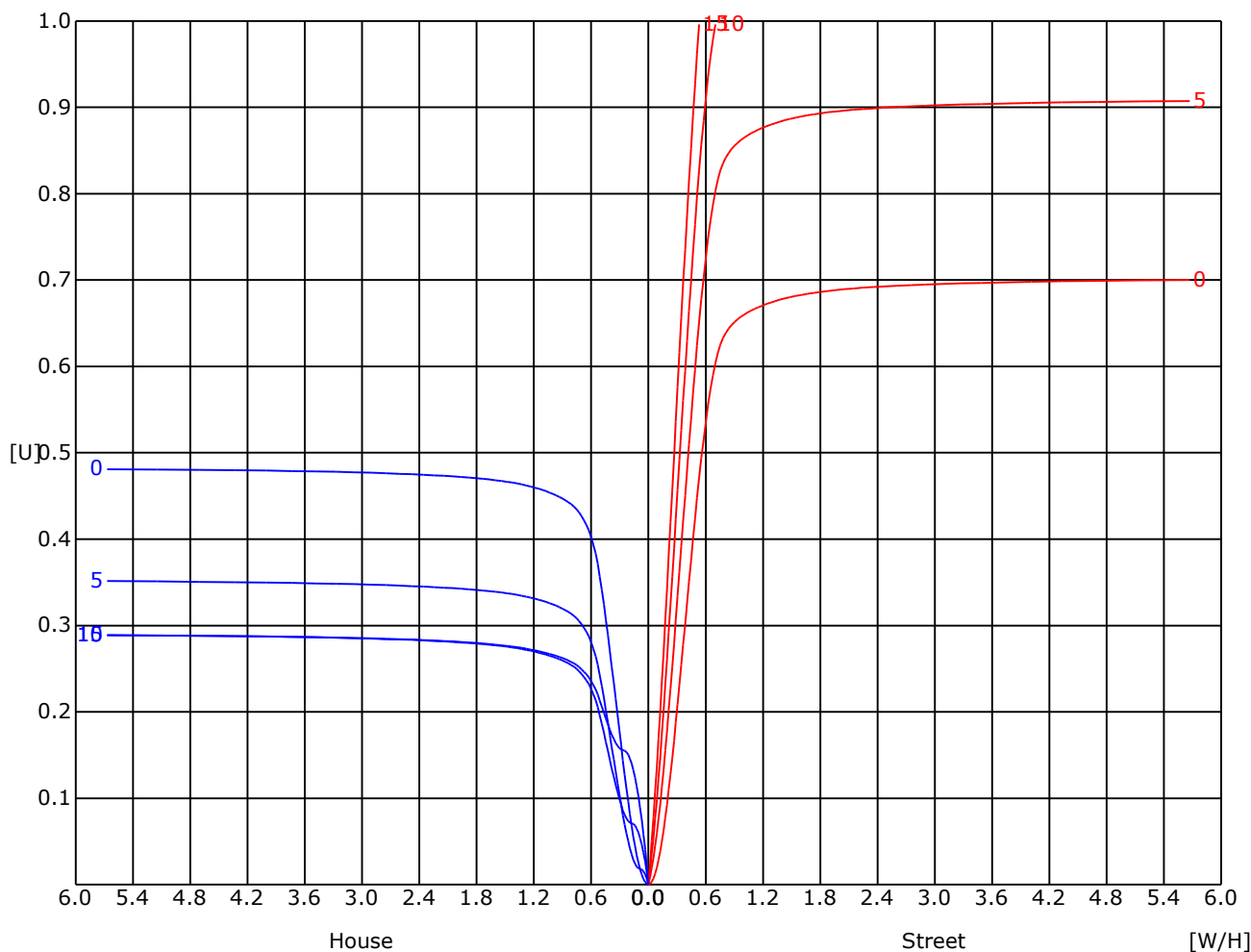
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UTILIZATION FACTOR DIAGRAM (ROAD)



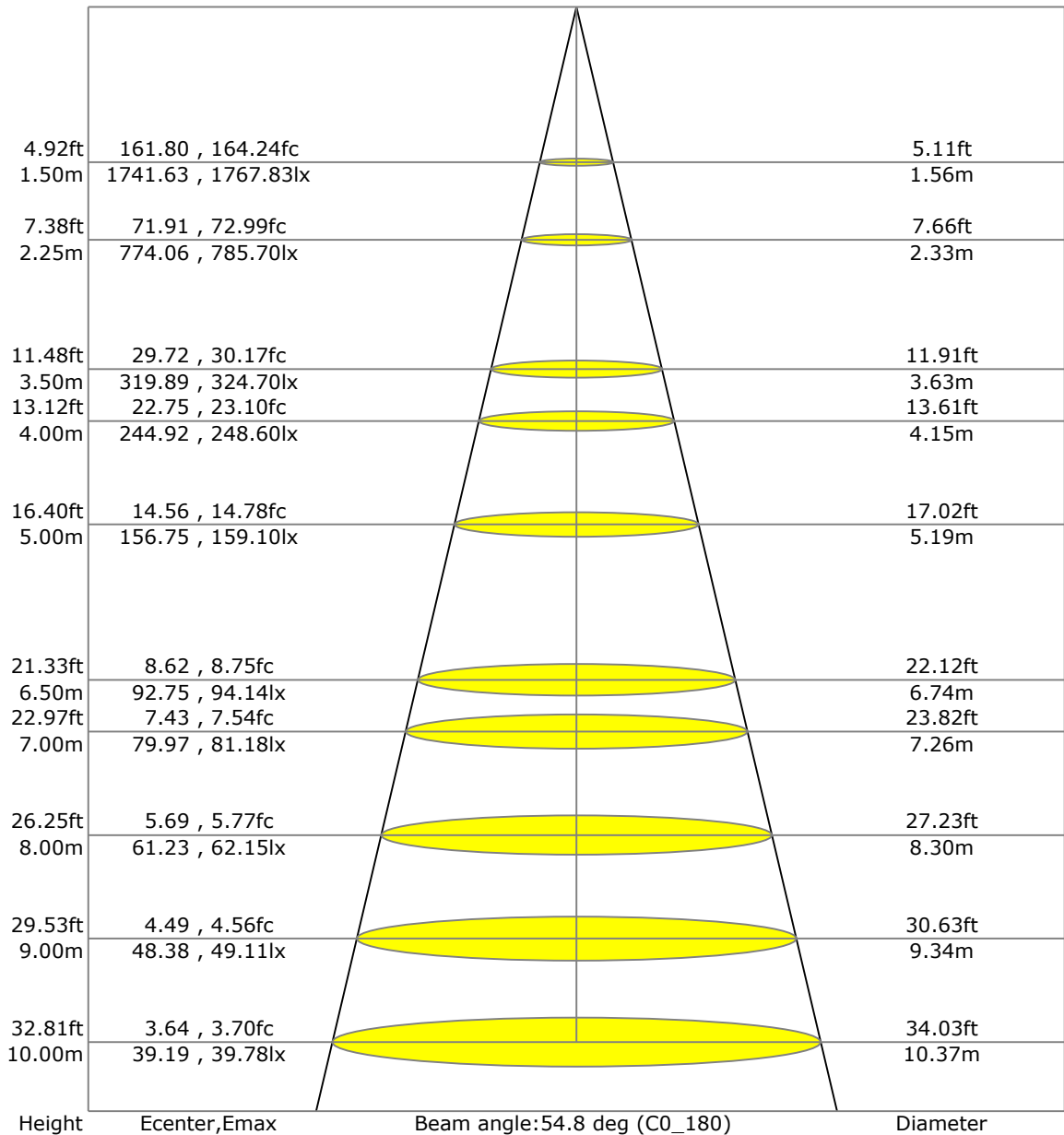
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LX-DISTANCE DIAGRAM



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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	10.20	10.26	10.40	10.44	10.69	10.59	10.64	10.79	10.83	11.07
3H	10.23	10.28	10.43	10.47	10.72	10.60	10.65	10.80	10.84	11.09
4H	10.23	10.28	10.44	10.48	10.72	10.59	10.64	10.80	10.84	11.09
6H	10.22	10.27	10.43	10.47	10.72	10.58	10.63	10.79	10.83	11.08
8H	10.21	10.26	10.43	10.46	10.72	10.57	10.62	10.79	10.82	11.08
12H	10.20	10.25	10.42	10.46	10.71	10.56	10.61	10.78	10.82	11.07
4H 2H	10.71	10.76	10.92	10.96	11.21	11.33	11.38	11.54	11.58	11.83
3H	10.86	10.91	11.08	11.11	11.37	11.45	11.50	11.67	11.71	11.96
4H	10.91	10.96	11.14	11.17	11.43	11.49	11.54	11.72	11.75	12.01
6H	10.94	10.99	11.18	11.21	11.47	11.50	11.55	11.73	11.77	12.03
8H	10.94	10.99	11.19	11.22	11.48	11.49	11.54	11.73	11.76	12.03
12H	10.94	10.99	11.19	11.22	11.49	11.48	11.52	11.73	11.76	12.03
8H 4H	10.96	11.01	11.18	11.21	11.47	11.87	11.92	12.09	12.13	12.38
6H	11.48	11.52	11.73	11.76	12.04	12.41	12.45	12.66	12.69	12.96
8H	11.53	11.58	11.80	11.82	12.10	12.43	12.48	12.70	12.72	13.00
12H	11.57	11.61	11.84	11.86	12.15	12.44	12.48	12.71	12.73	13.01
12H 4H	11.42	11.46	11.66	11.69	11.96	12.72	12.76	12.97	13.00	13.26
6H	11.59	11.63	11.85	11.88	12.15	12.91	12.95	13.17	13.19	13.47

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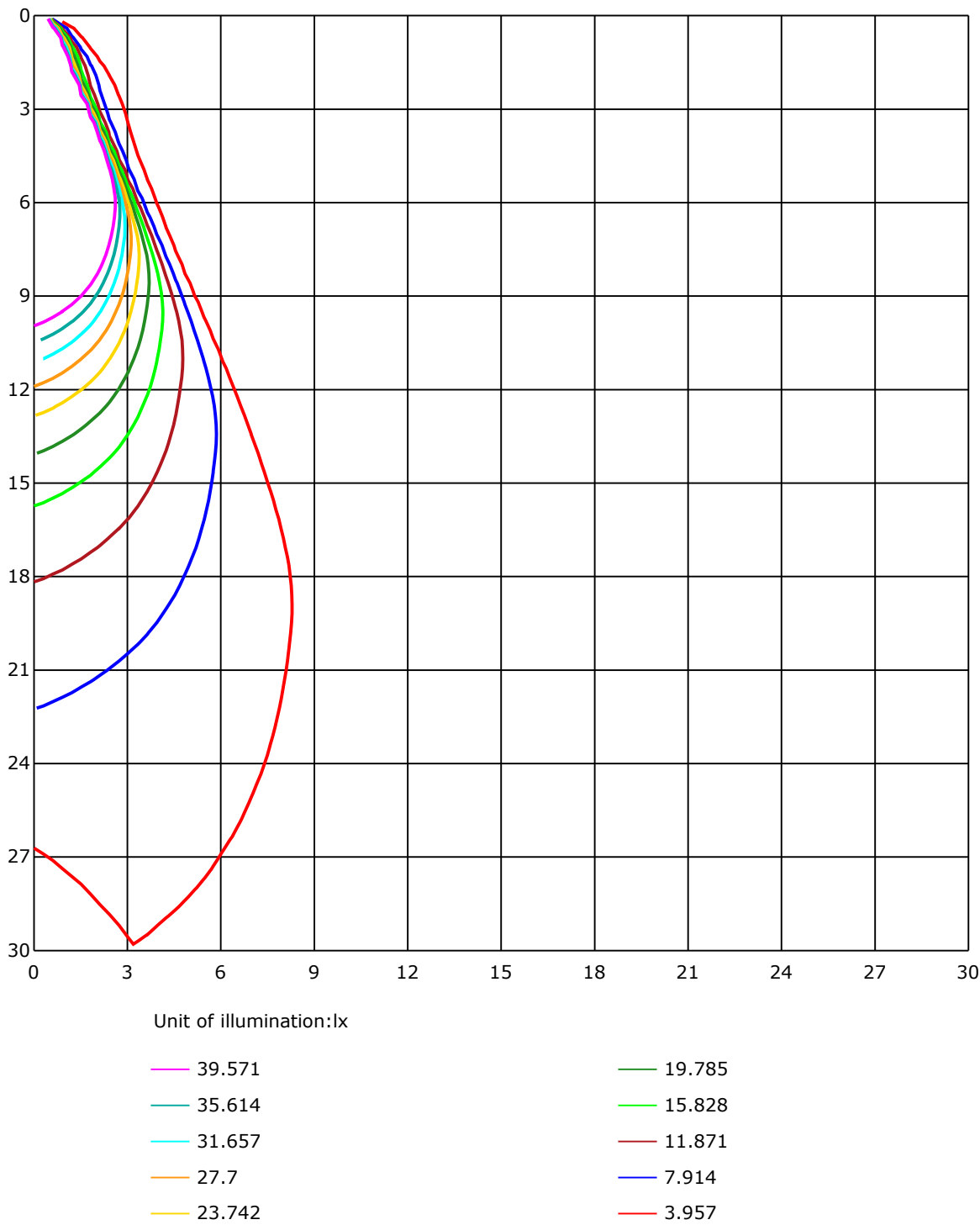
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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3918.67	3935.64	3965.36	3943.54	3918.67	3935.64	3965.36	3943.54	3918.67	
G1	3873.51	3921.41	3946.5	3933.44	3939.23	3949.2	3948.84	3948.08	3873.51	
G2	3815.83	3894.61	3930.84	3922.13	3935.96	3972.99	3928.82	3918.09	3815.83	
G3	3765.96	3876.3	3905.16	3906.6	3940.98	3977.61	3893.13	3866.78	3765.96	
G4	3701.67	3866.06	3888.24	3889.54	3943.9	3963.11	3866.82	3821.4	3701.67	
G5	3647.36	3840.52	3857.4	3873.51	3946.64	3936.36	3831.68	3782.25	3647.36	
G6	3578.86	3811.74	3833.25	3854.66	3941.48	3910.1	3779.06	3730.05	3578.86	
G7	3522.07	3739.02	3817.85	3842.54	3951.31	3871.67	3719.45	3681.79	3522.07	
G8	3445.94	3674.29	3812.42	3833.38	3936.31	3833.7	3664.82	3630.52	3445.94	
G9	3381.12	3612.34	3784.32	3824.04	3946.1	3800.16	3593.09	3554.66	3381.12	
G10	3306.78	3544.2	3716.8	3775.47	3898.56	3733.64	3527.1	3491.59	3306.78	
G11	3228.04	3491.77	3651.62	3731.08	3847.43	3665.18	3430.09	3410.34	3228.04	
G12	3138.57	3411.86	3599.19	3672.09	3792.26	3604.26	3334.38	3326.62	3138.57	
G13	3041.07	3351.31	3540.43	3626.53	3753.93	3525.21	3235.58	3237.38	3041.07	
G14	2951.65	3280.11	3480.64	3577.55	3703.83	3441.94	3130.58	3128.74	2951.65	
G15	2842.26	3214.03	3414.96	3490.69	3645.97	3351.85	3011.13	3030.93	2842.26	
G16	2733.44	3130.45	3352.21	3420.12	3586.17	3258.21	2890.83	2919.29	2733.44	
G17	2630.37	3061.59	3278.95	3357.28	3525.17	3157.83	2768.05	2801.54	2630.37	
G18	2511.28	2993.53	3221.85	3267.68	3446.34	3041.7	2642.94	2684.6	2511.28	
G19	2397.49	2903.62	3152.76	3189.93	3368.23	2931.86	2507.56	2555.9	2397.49	
G20	2276.19	2823.45	3096.11	3104.32	3291.42	2810.11	2374.46	2434.16	2276.19	
G21	2157.77	2728.77	3025.32	3026.98	3209.73	2687.25	2239.02	2305.06	2157.77	
G22	2040.16	2638.68	2949.9	2936.43	3114.42	2561.38	2116.56	2181.79	2040.16	
G23	1925.92	2537.63	2860.3	2852.09	3023.21	2435.69	1992.53	2063.19	1925.92	
G24	1800.09	2433.58	2770.57	2749.87	2919.11	2315.56	1866.17	1944.05	1800.09	
G25	1634.49	2322.88	2671.45	2646.71	2818.06	2191.8	1717.85	1825.81	1634.49	
G26	1407.35	2218.28	2576.06	2540.77	2707.9	2066.78	1500.76	1638.75	1407.35	
G27	1136.53	2098.11	2469.53	2431.2	2595.94	1940.55	1271.46	1407.12	1136.53	
G28	878.05	1992.08	2362.25	2310.35	2486.95	1774.5	1016.85	1155.02	878.05	
G29	641.84	1874.83	2247.01	2190.63	2370.69	1556.52	750.16	896.41	641.84	
G30	461.38	1752.06	2126.22	2062.79	2244.1	1312.45	521.04	654.09	461.38	
G31	351.31	1556.88	2011.7	1949.39	2124.82	1050.92	368.59	463.8	351.31	
G32	296.32	1291.04	1909.13	1831.96	2006.18	777.58	300.81	359.39	296.32	
G33	252.37	1025.87	1792.41	1680.41	1892.65	547.93	255.24	299.96	252.37	
G34	215.47	786.79	1583.5	1452.15	1733.34	415.01	218.17	253.9	215.47	
G35	187.33	588.28	1314.56	1193.0	1507.32	343.18	188.9	218.43	187.33	
G36	163.35	431.98	1040.37	931.47	1242.33	291.25	166.09	190.56	163.35	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	146.12	341.66	807.89	692.65	980.49	249.18	148.27	170.72	146.12	
G38	133.73	293.27	615.85	500.79	729.6	216.19	136.51	156.44	133.73	
G39	125.02	250.67	450.56	370.84	531.68	189.75	127.08	145.17	125.02	
G40	118.11	215.47	362.26	303.82	407.02	170.18	119.63	136.6	118.11	
G41	112.18	186.65	306.24	261.04	340.0	152.49	113.12	129.6	112.18	
G42	105.27	165.42	263.37	223.69	289.05	141.49	107.74	122.19	105.27	
G43	99.61	146.75	228.27	194.69	249.72	132.69	100.87	115.55	99.61	
G44	94.0	131.62	200.39	169.73	217.18	125.42	95.53	109.08	94.0	
G45	88.88	123.54	177.67	150.83	189.62	118.15	90.0	103.52	88.88	
G46	83.9	116.31	159.45	136.91	166.9	111.46	84.8	97.68	83.9	
G47	79.32	110.16	145.62	126.41	150.34	104.59	80.08	92.61	79.32	
G48	74.92	103.83	136.56	118.46	139.11	98.94	75.46	87.49	74.92	
G49	70.84	97.73	128.61	112.31	130.54	93.15	71.24	83.23	70.84	
G50	66.93	92.52	121.38	105.99	123.13	88.34	67.25	78.29	66.93	
G51	63.38	87.0	114.2	99.66	116.13	83.54	63.34	74.11	63.38	
G52	59.08	82.46	107.74	94.22	109.17	79.23	59.34	69.76	59.08	
G53	55.53	77.48	101.27	88.57	103.25	75.01	55.66	65.67	55.53	
G54	51.35	73.44	95.8	83.45	97.28	70.61	51.62	61.19	51.35	
G55	46.37	69.71	90.59	78.83	91.89	66.21	47.49	56.74	46.37	
G56	42.2	65.94	85.65	74.25	87.09	62.62	43.05	52.07	42.2	
G57	39.46	61.9	80.85	70.48	82.6	57.86	39.68	48.3	39.46	
G58	37.17	58.22	76.49	66.26	78.11	53.1	37.71	45.02	37.17	
G59	35.33	54.36	72.27	62.35	73.93	48.89	35.73	43.18	35.33	
G60	33.53	50.05	67.96	58.4	69.89	45.65	34.12	40.94	33.53	
G61	32.23	45.11	63.88	54.77	65.76	43.41	32.86	39.32	32.23	
G62	31.06	41.07	59.66	50.95	61.5	41.16	31.6	37.62	31.06	
G63	29.81	38.65	54.99	46.01	57.19	39.37	30.26	36.36	29.81	
G64	28.59	36.5	50.32	41.97	52.52	38.2	29.22	34.97	28.59	
G65	27.74	34.48	46.1	38.74	48.39	36.68	28.28	33.85	27.74	
G66	26.84	32.86	43.72	36.59	45.11	35.33	27.38	32.72	26.84	
G67	26.13	31.65	41.48	34.66	42.87	34.07	26.57	31.74	26.13	
G68	25.63	30.66	39.14	32.64	40.72	32.77	25.86	30.75	25.63	
G69	25.14	29.27	37.44	31.38	38.83	31.69	25.36	30.35	25.14	
G70	24.51	28.28	36.05	30.26	37.3	31.06	24.73	29.76	24.51	
G71	23.52	27.29	34.7	29.09	36.05	30.12	23.97	28.68	23.52	
G72	22.89	26.53	33.4	27.97	34.7	29.58	23.25	27.92	22.89	
G73	22.18	25.72	32.23	27.25	33.67	28.91	22.31	26.98	22.18	

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