

Report No.:

Test Time: 2025/1/7 14:34:46

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
 Luminaire Type: IBSP115CT075H105-60°-25W
 Lamp Type:
 Luminous Width: 74 mm
 Luminous Length: 74 mm
 Luminous Height: 57 mm

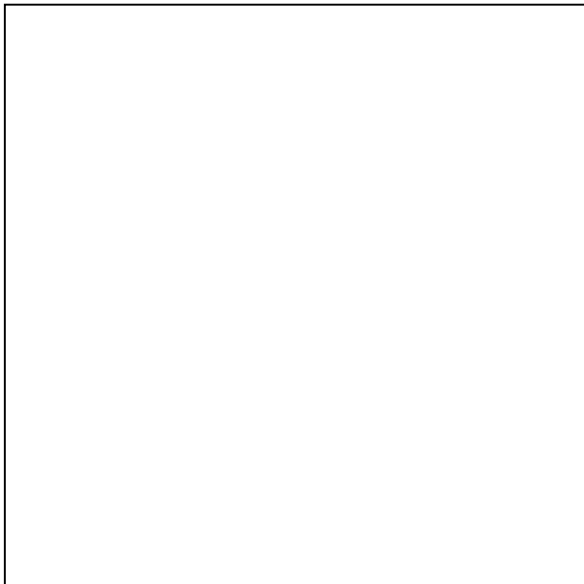
Voltage(V): 227.90 V
 Current(A): 0.1140 A
 Power(W): 24.87 W
 Power Factor: 0.9550
 Lamp Luminous Flux: 2281.68

Photometric Results

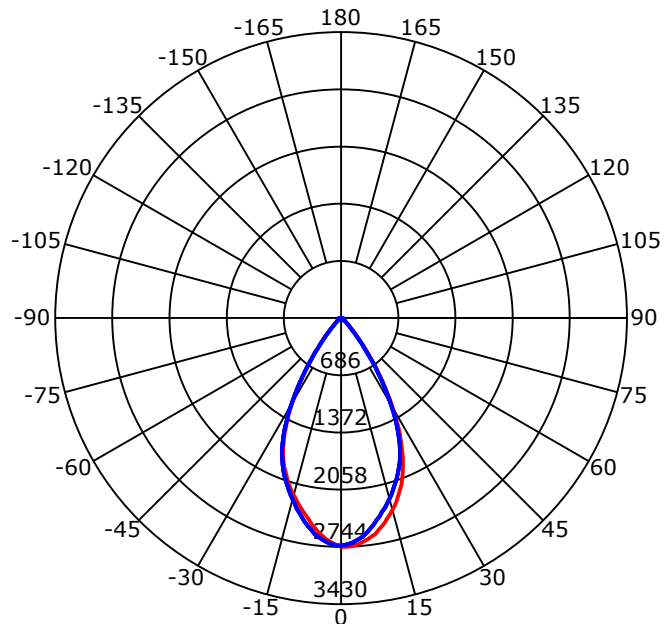
CIE Class: Direct
 Luminaire Luminous Flux: 2281.676 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 91.76 lm/W
 Beam Angle(50%) C0-180,C90-270: 56.6,56.6
 Field Angle(10%) C0-180,C90-270: 82.4,81.9
 S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 2743.99 cd
 Max.Intensity Angle: C=0 Gamma=1
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 2742.52 cd
 Effective Luminous Flux: 2102.34 lm
 ERP(φ use)(120deg): 2246.26 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 56.6 deg,56.6 deg

C0-180 — C90-270 —

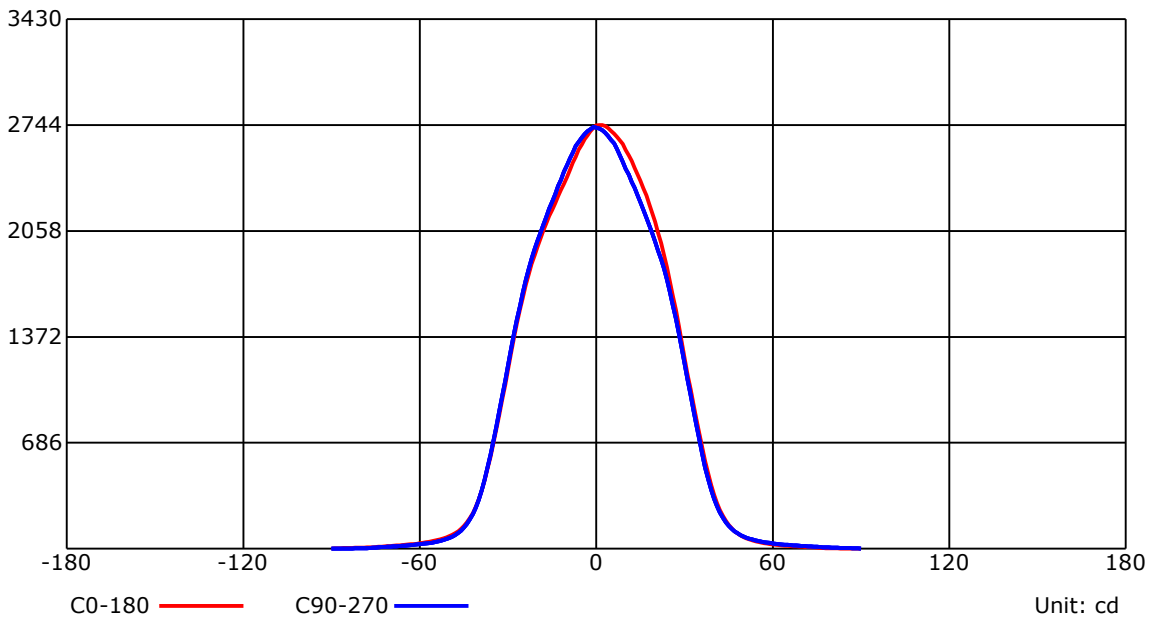
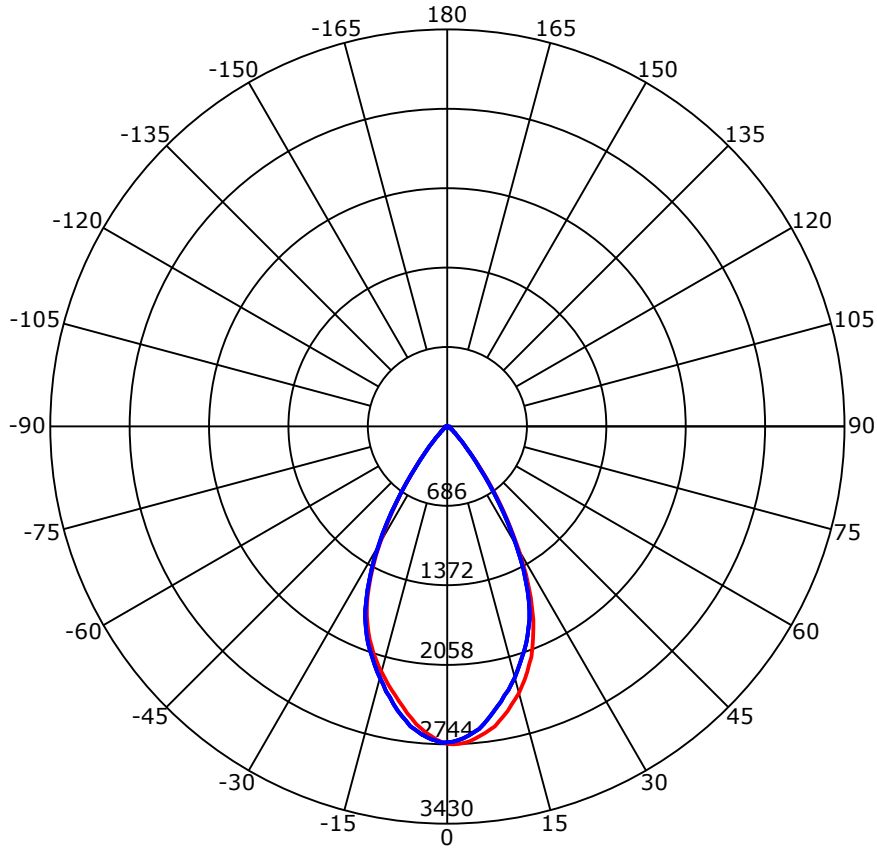
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/1/7 14:34:46

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.78 m
 Remarks:

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Luminous Intensity Distribution Curve



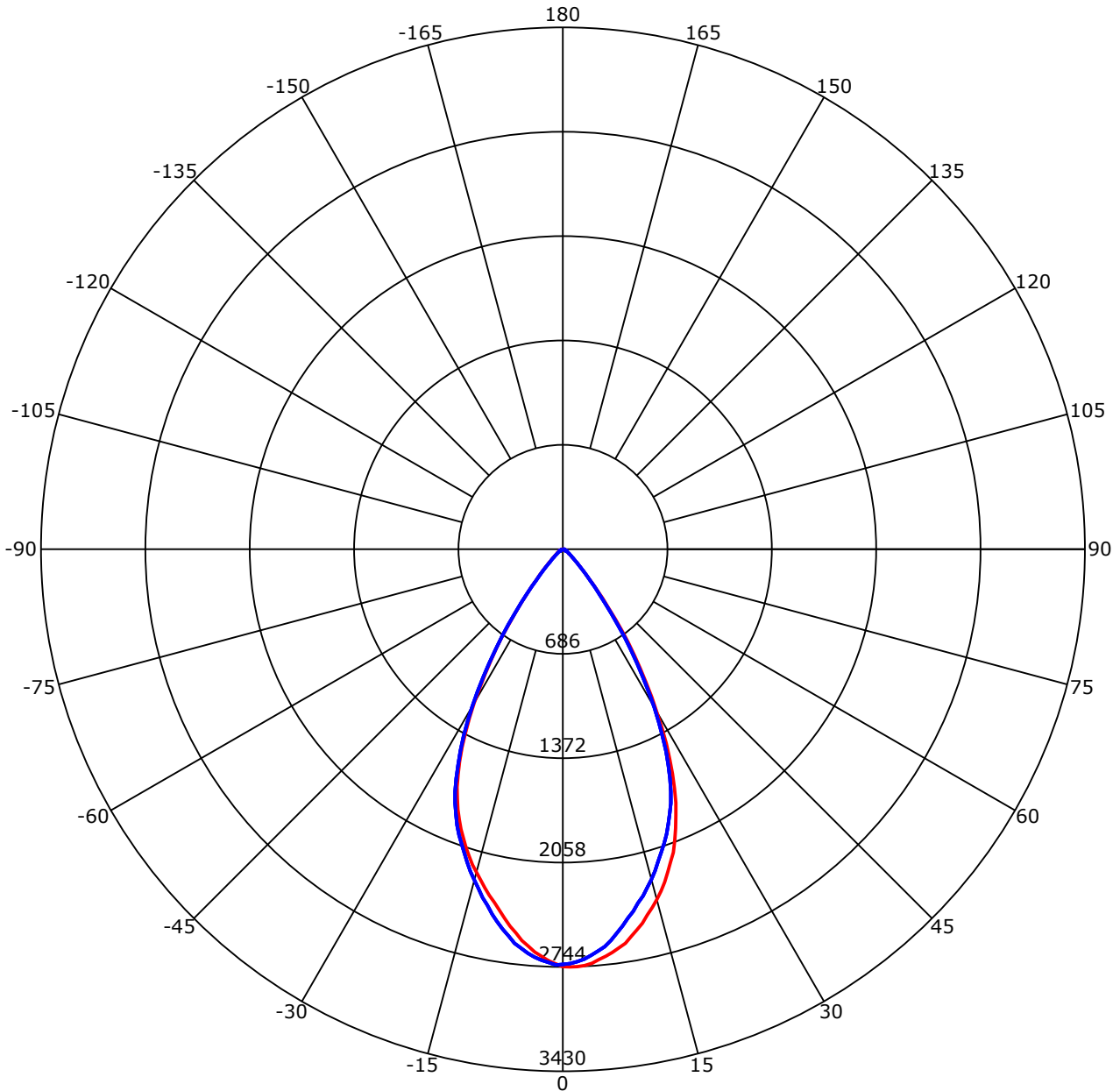
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —
 Unit: cd/klm

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
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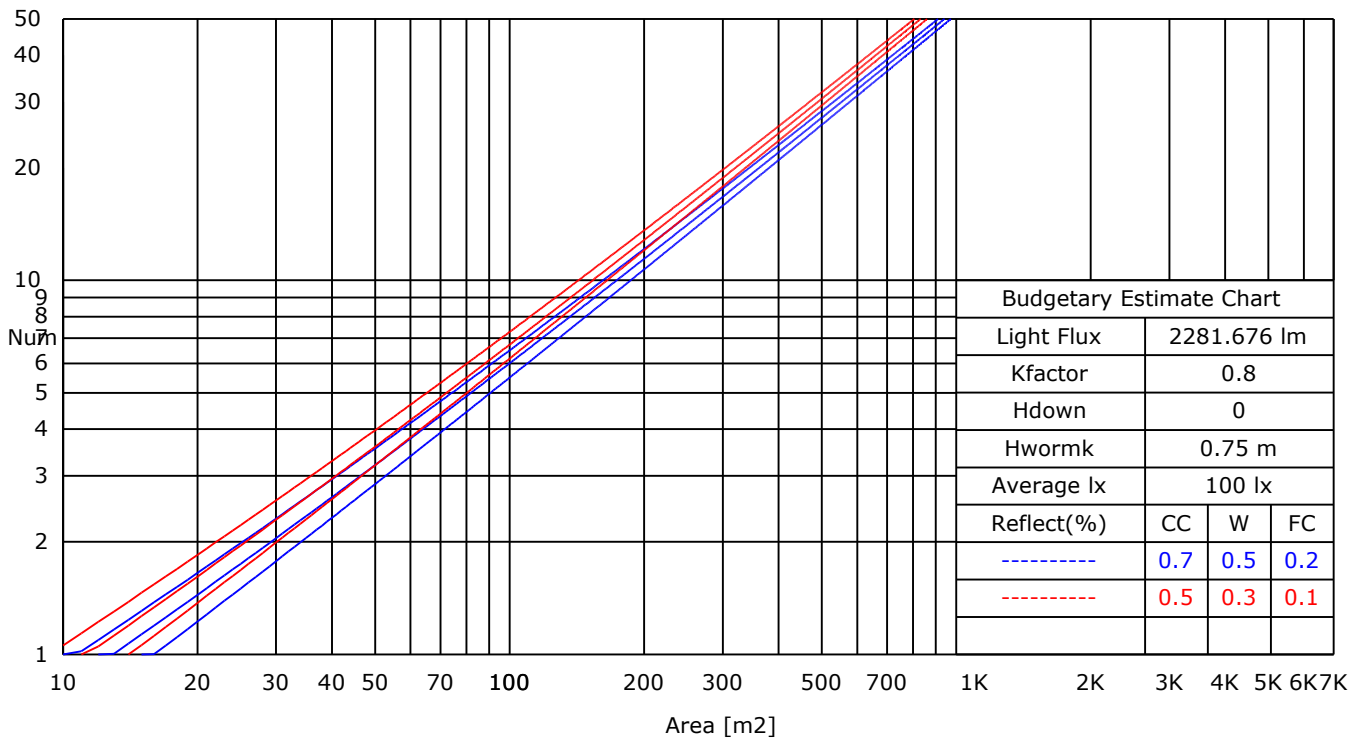
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UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.06	1.04	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	1.01	0.99	0.98	1.00	0.98	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.87	0.84	0.81	0.77
3	0.96	0.95	0.94	0.95	0.93	0.92	0.92	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.73
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.77	0.74	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.85	0.84	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.65
7	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.66	0.63
8	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.74	0.72	0.74	0.70	0.68	0.71	0.67	0.64	0.61
9	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.69	0.65	0.62	0.59
10	0.74	0.73	0.72	0.73	0.72	0.70	0.72	0.69	0.67	0.69	0.66	0.64	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



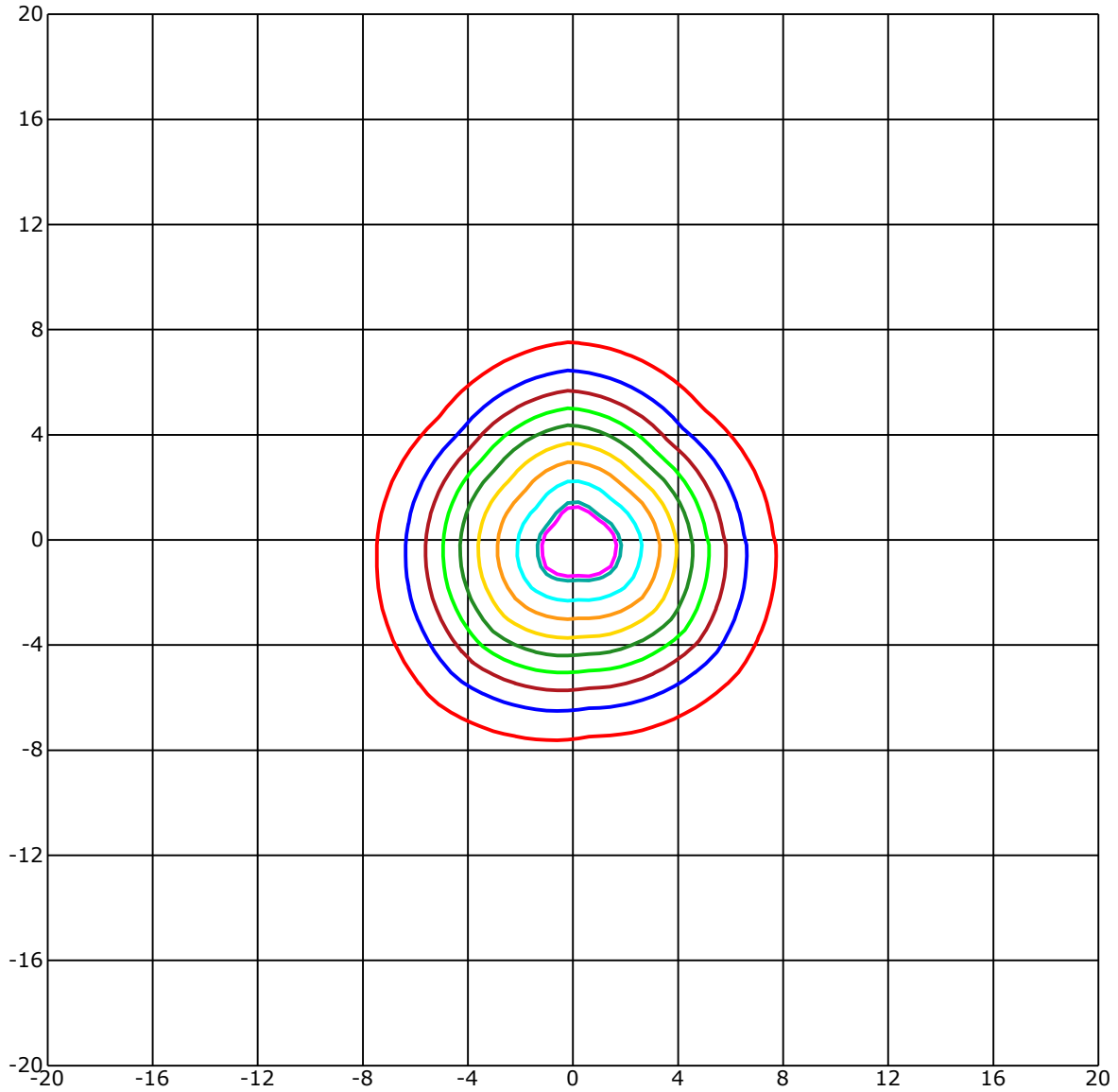
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 Operators: QC01
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 G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

— 25.233(92%Emax)	— 13.714(50%Emax)
— 24.685(90%Emax)	— 10.971(40%Emax)
— 21.942(80%Emax)	— 8.228(30%Emax)
— 19.199(70%Emax)	— 5.485(20%Emax)
— 16.456(60%Emax)	— 2.743(10%Emax)

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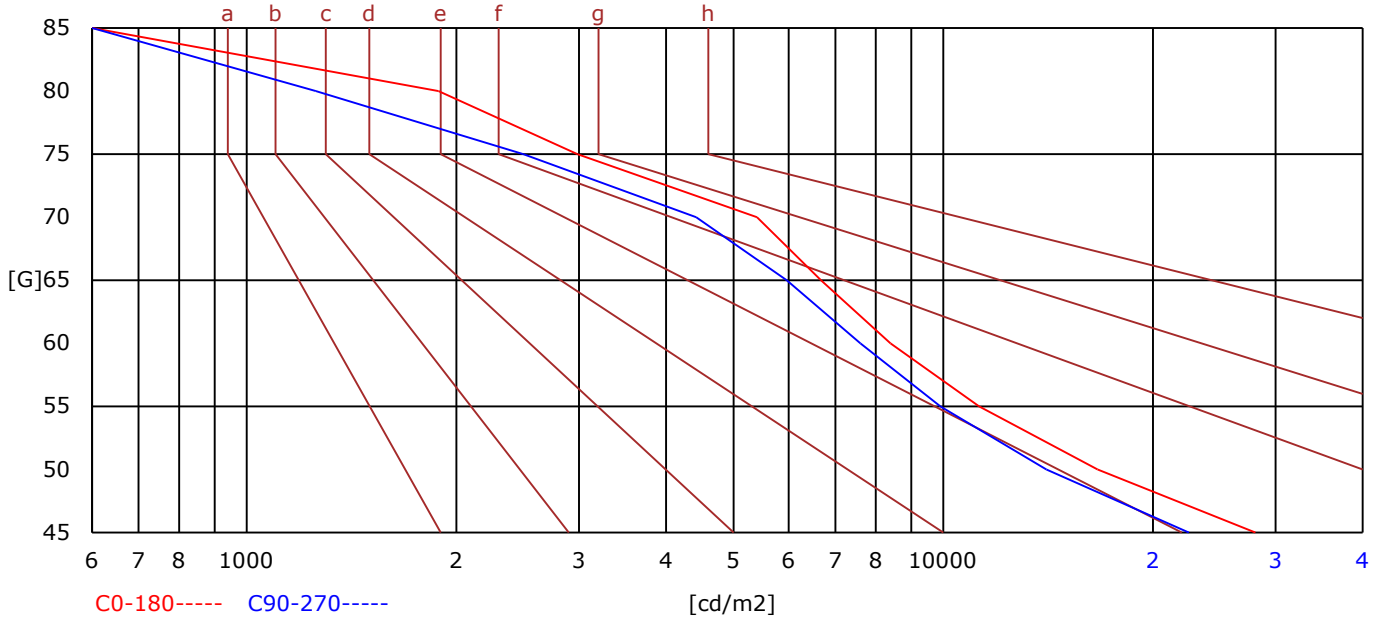
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	28041	16651	11255	8395	6674	5400	2984	1885	0
C90	22509	14065	9908	7605	5959	4418	2497	1257	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



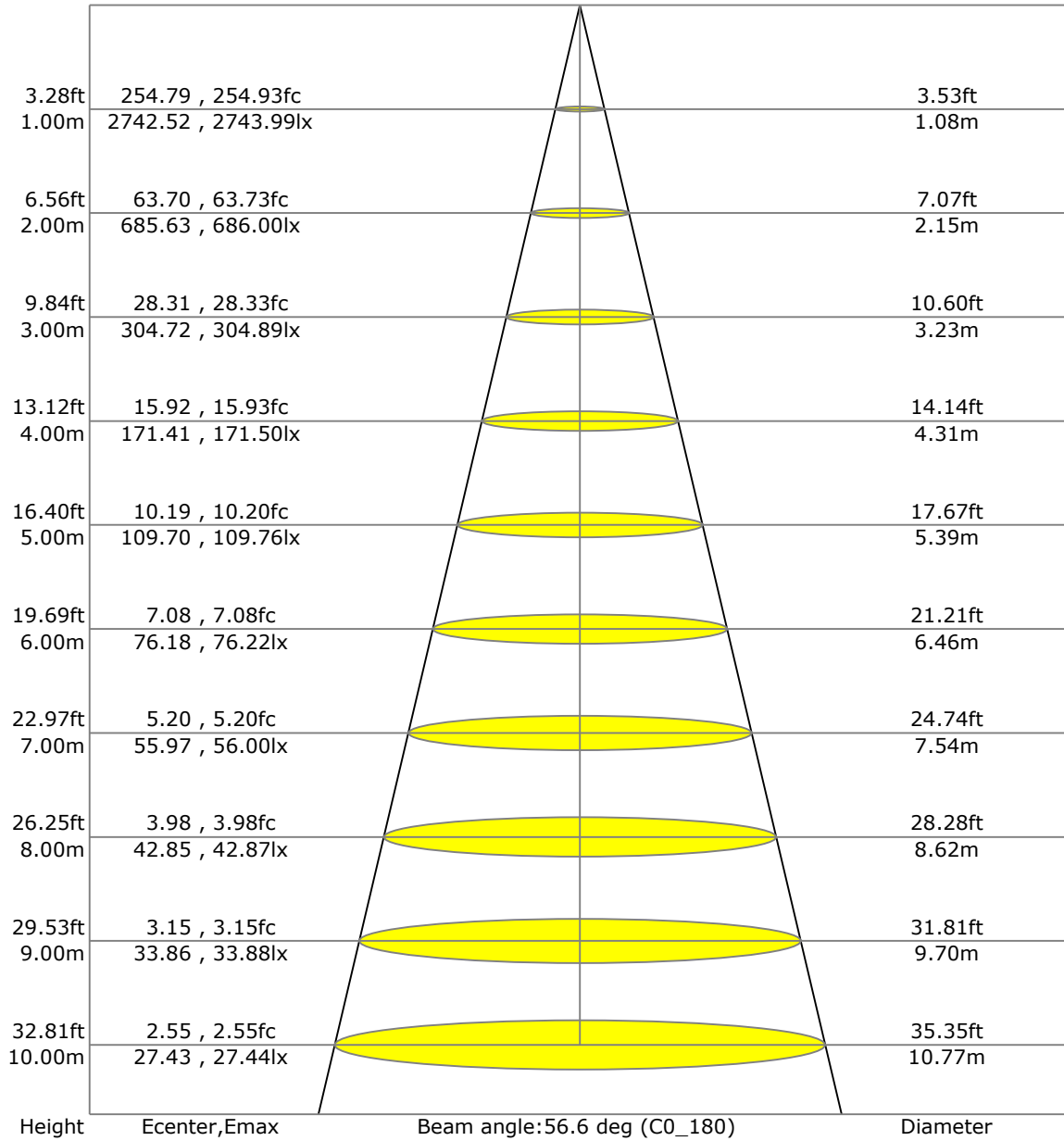
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
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 Humidity: 60
 Test Distance: 6.78 m
 Remarks:

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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	Viewed Endwise					Viewed Crosswise				
2H 2H	13.28	13.33	13.48	13.52	13.76	13.32	13.37	13.52	13.56	13.80
3H	13.27	13.32	13.47	13.51	13.76	13.30	13.35	13.51	13.55	13.79
4H	13.25	13.31	13.46	13.50	13.75	13.29	13.34	13.50	13.54	13.78
6H	13.24	13.29	13.45	13.49	13.74	13.27	13.32	13.49	13.52	13.77
8H	13.23	13.28	13.45	13.48	13.73	13.26	13.31	13.48	13.51	13.77
12H	13.22	13.27	13.44	13.47	13.73	13.25	13.30	13.47	13.51	13.76
4H 2H	13.40	13.45	13.61	13.65	13.90	13.53	13.58	13.74	13.78	14.03
3H	13.39	13.44	13.61	13.65	13.90	13.52	13.57	13.74	13.78	14.03
4H	13.37	13.42	13.60	13.64	13.89	13.50	13.55	13.73	13.76	14.02
6H	13.35	13.40	13.59	13.62	13.88	13.48	13.53	13.72	13.75	14.01
8H	13.34	13.39	13.58	13.61	13.88	13.47	13.51	13.71	13.74	14.01
12H	13.33	13.37	13.57	13.60	13.87	13.45	13.50	13.70	13.73	14.00
8H 4H	13.39	13.44	13.61	13.64	13.89	13.57	13.63	13.79	13.83	14.08
6H	13.33	13.38	13.59	13.61	13.89	13.53	13.57	13.78	13.81	14.08
8H	13.32	13.36	13.58	13.60	13.88	13.51	13.56	13.78	13.80	14.08
12H	13.30	13.34	13.57	13.59	13.87	13.50	13.54	13.77	13.79	14.07
12H 4H	13.34	13.39	13.59	13.62	13.89	13.58	13.63	13.83	13.86	14.13
6H	13.32	13.36	13.58	13.60	13.88	13.56	13.60	13.82	13.84	14.12

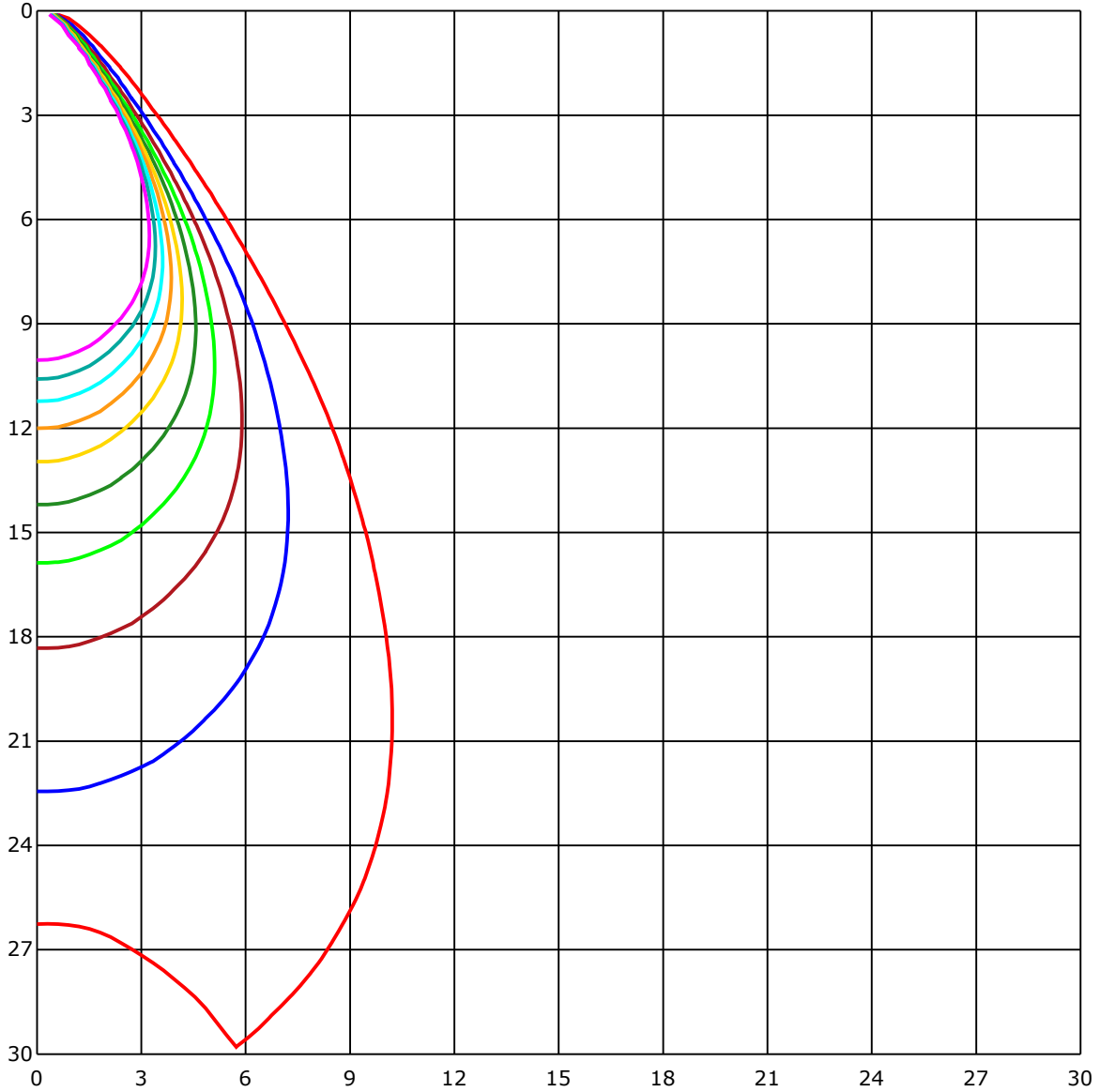
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|----------|----------|
| — 27.224 | — 13.612 |
| — 24.501 | — 10.89 |
| — 21.779 | — 8.167 |
| — 19.057 | — 5.445 |
| — 16.334 | — 2.722 |

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2742.52	2717.7	2727.03	2698.48	2742.52	2717.7	2727.03	2698.48	2742.52	
G1	2743.99	2709.06	2722.16	2681.48	2724.87	2719.58	2730.75	2716.41	2743.99	
G2	2743.67	2691.96	2710.34	2652.33	2704.18	2725.83	2716.27	2732.04	2743.67	
G3	2738.06	2661.02	2695.08	2616.84	2677.11	2719.72	2703.77	2739.26	2738.06	
G4	2725.97	2640.1	2673.48	2579.33	2653.16	2703.72	2685.89	2732.36	2725.97	
G5	2706.94	2614.78	2648.84	2546.74	2617.26	2683.91	2663.55	2734.94	2706.94	
G6	2687.87	2584.76	2625.35	2499.72	2584.34	2659.82	2634.63	2719.17	2687.87	
G7	2667.68	2548.58	2588.48	2454.12	2539.11	2630.54	2608.71	2702.44	2667.68	
G8	2644.24	2508.36	2546.42	2407.41	2501.78	2607.28	2565.45	2679.22	2644.24	
G9	2621.39	2464.23	2505.74	2361.76	2452.92	2571.84	2528.35	2654.49	2621.39	
G10	2581.59	2427.04	2460.46	2313.36	2408.42	2536.86	2485.6	2620.98	2581.59	
G11	2547.98	2376.8	2422.81	2265.92	2363.33	2493.79	2441.38	2591.06	2547.98	
G12	2511.94	2327.33	2374.87	2223.49	2324.53	2449.75	2390.5	2552.63	2511.94	
G13	2465.84	2278.47	2336.94	2175.82	2282.84	2402.86	2349.63	2512.04	2465.84	
G14	2424.51	2226.66	2290.33	2126.77	2238.57	2356.11	2295.52	2468.32	2424.51	
G15	2382.77	2167.14	2245.14	2084.12	2195.87	2307.48	2250.11	2429.61	2382.77	
G16	2336.02	2110.18	2196.69	2032.08	2155.64	2261.32	2203.63	2388.84	2336.02	
G17	2287.62	2055.2	2142.54	1982.02	2107.47	2217.88	2149.9	2350.69	2287.62	
G18	2229.97	1993.7	2092.07	1925.16	2061.55	2174.12	2098.64	2299.57	2229.97	
G19	2173.34	1920.1	2043.89	1872.98	2009.56	2128.66	2046.61	2252.18	2173.34	
G20	2118.68	1853.72	1989.47	1816.03	1957.61	2090.74	1998.06	2201.43	2118.68	
G21	2048.12	1771.81	1932.14	1754.34	1902.63	2040.31	1942.76	2149.21	2048.12	
G22	1977.93	1691.5	1872.8	1684.47	1843.66	1996.5	1876.84	2092.76	1977.93	
G23	1900.1	1605.17	1813.87	1607.88	1776.5	1933.71	1811.57	2037.55	1900.1	
G24	1822.83	1514.2	1742.57	1525.05	1709.98	1874.18	1740.78	1975.72	1822.83	
G25	1731.95	1418.72	1662.77	1438.17	1628.98	1810.51	1661.39	1910.22	1731.95	
G26	1641.07	1323.94	1577.87	1343.56	1551.34	1743.9	1572.17	1834.83	1641.07	
G27	1546.75	1227.86	1490.43	1248.32	1457.75	1668.33	1484.32	1757.6	1546.75	
G28	1445.89	1127.56	1397.12	1144.15	1365.63	1589.22	1392.43	1673.89	1445.89	
G29	1339.43	1030.06	1299.39	1039.21	1268.41	1500.5	1295.16	1582.6	1339.43	
G30	1234.8	933.25	1198.58	932.29	1164.98	1411.23	1192.6	1484.46	1234.8	
G31	1131.7	838.42	1098.46	829.78	1062.51	1311.62	1090.0	1382.64	1131.7	
G32	1033.14	753.15	994.34	732.37	962.12	1215.22	986.16	1277.19	1033.14	
G33	932.84	668.61	895.1	639.14	865.68	1118.27	889.17	1170.95	932.84	
G34	838.56	585.91	799.11	546.38	774.66	1022.75	790.1	1064.9	838.56	
G35	746.16	505.79	707.36	462.26	685.02	928.1	698.44	962.85	746.16	
G36	657.12	434.22	614.09	385.4	595.52	836.81	609.77	856.3	657.12	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	568.4	372.71	525.92	323.66	513.93	748.27	523.07	757.28	568.4	
G38	484.87	320.08	449.11	269.74	439.04	662.22	443.87	659.0	484.87	
G39	413.85	273.74	382.6	226.3	374.32	577.82	375.98	567.94	413.85	
G40	351.89	233.43	324.72	190.08	319.11	499.22	316.77	480.65	351.89	
G41	296.86	198.72	276.22	160.2	272.09	429.85	266.34	406.22	296.86	
G42	250.76	169.53	234.62	135.97	231.59	370.05	223.91	341.09	250.76	
G43	213.06	145.35	200.47	116.16	198.17	317.14	189.57	287.35	213.06	
G44	180.52	125.31	171.6	100.03	170.86	271.63	160.84	241.84	180.52	
G45	153.9	108.58	148.02	87.16	147.79	233.57	137.12	203.64	153.9	
G46	132.53	95.02	128.39	76.77	129.03	200.88	117.27	172.24	132.53	
G47	113.13	83.16	112.44	68.13	113.22	173.81	101.41	147.51	113.13	
G48	97.73	73.5	99.25	60.68	100.58	150.04	87.98	126.69	97.73	
G49	85.18	65.09	88.26	54.7	89.64	130.18	77.64	109.96	85.18	
G50	75.3	58.61	79.07	49.51	80.77	114.51	68.68	96.21	75.3	
G51	67.07	52.77	71.71	44.36	73.27	101.68	61.83	85.32	67.07	
G52	59.8	47.49	65.32	40.59	67.16	90.97	55.67	76.03	59.8	
G53	53.46	42.75	59.99	37.1	61.46	81.92	50.61	68.95	53.46	
G54	47.81	38.94	54.84	33.83	56.5	74.1	45.74	62.1	47.81	
G55	43.16	35.35	50.47	31.12	52.13	67.67	42.24	56.95	43.16	
G56	39.49	32.36	46.34	28.55	47.76	62.06	38.71	52.08	39.49	
G57	35.99	29.6	42.89	26.43	43.99	56.91	35.9	47.76	35.99	
G58	32.91	27.08	39.67	24.32	41.1	52.59	33.01	44.27	32.91	
G59	29.97	24.87	37.0	22.57	37.83	48.77	30.71	41.6	29.97	
G60	27.72	22.98	34.38	20.82	35.3	44.87	28.59	38.71	27.72	
G61	25.24	20.96	32.04	19.21	32.68	41.6	26.52	36.27	25.24	
G62	23.35	19.49	29.93	17.7	30.39	38.61	24.64	33.88	23.35	
G63	21.51	18.16	28.18	16.41	28.59	35.99	23.12	31.86	21.51	
G64	19.95	16.73	26.43	14.99	26.8	33.6	21.38	29.74	19.95	
G65	18.39	15.45	24.87	13.79	25.1	31.44	19.95	27.86	18.39	
G66	17.19	14.39	23.35	12.46	23.54	29.56	18.53	25.97	17.19	
G67	15.77	13.19	22.06	11.49	22.11	27.63	17.42	24.18	15.77	
G68	14.76	12.09	20.73	10.43	20.82	26.2	16.09	22.43	14.76	
G69	13.51	10.94	19.4	9.42	19.35	24.46	14.8	20.82	13.51	
G70	12.37	10.11	18.16	8.27	17.97	23.03	13.56	19.54	12.37	
G71	11.4	8.87	17.05	7.4	16.64	21.61	12.5	18.43	11.4	
G72	10.34	7.81	15.63	6.48	15.45	20.27	11.26	17.05	10.34	
G73	9.15	6.62	14.48	5.65	13.97	18.62	9.98	15.72	9.15	

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/1/7 14:34:46

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.78 m
 Remarks:

Report No.:

Test Time: 2025/1/7 14:34:46

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360
G74	8.09	5.61	13.33	4.6	12.69	17.19	8.64	14.66	8.09
G75	6.94	4.23	12.18	3.54	11.45	15.86	7.31	13.47	6.94
G76	5.7	3.49	10.53	2.85	9.79	14.3	6.02	12.37	5.7
G77	4.41	2.99	9.19	2.53	8.64	12.78	4.6	11.22	4.41
G78	3.36	2.62	8.41	1.98	7.95	11.31	3.49	9.93	3.36
G79	2.9	2.11	7.91	1.65	7.31	9.75	3.13	8.69	2.9
G80	2.53	1.79	7.17	1.2	6.76	8.92	2.62	7.77	2.53
G81	2.07	1.43	6.62	0.87	6.25	8.18	2.21	7.13	2.07
G82	1.75	0.97	6.11	0.6	5.79	7.72	1.75	6.67	1.75
G83	1.38	0.46	5.7	0.32	5.29	7.03	1.33	6.21	1.38
G84	1.15	0.18	5.01	0.09	4.92	6.44	1.06	5.75	1.15
G85	0.69	0.0	4.55	0.0	4.46	5.84	0.69	5.24	0.69
G86	0.6	0.0	4.0	0.0	4.0	5.33	0.32	4.69	0.6
G87	0.32	0.0	3.49	0.0	3.36	4.6	0.18	4.18	0.32
G88	0.09	0.0	2.76	0.0	2.9	3.91	0.0	3.49	0.09
G89	0.0	0.0	2.11	0.0	2.25	3.08	0.0	2.71	0.0
G90	0.0	0.0	0.0	0.0	0.0	3.08	0.0	2.71	0.0