

Report No.:

Test Time: 2024/6/27 18:20:50

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H90-38°-15W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 68 mm

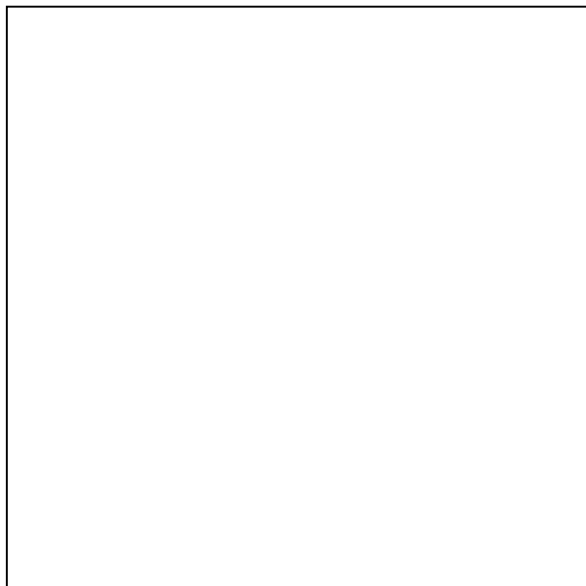
Voltage(V): 218.80 V
Current(A): 0.0750 A
Power(W): 15.88 W
Power Factor: 0.9560
Lamp Luminous Flux: 1432.90

Photometric Results

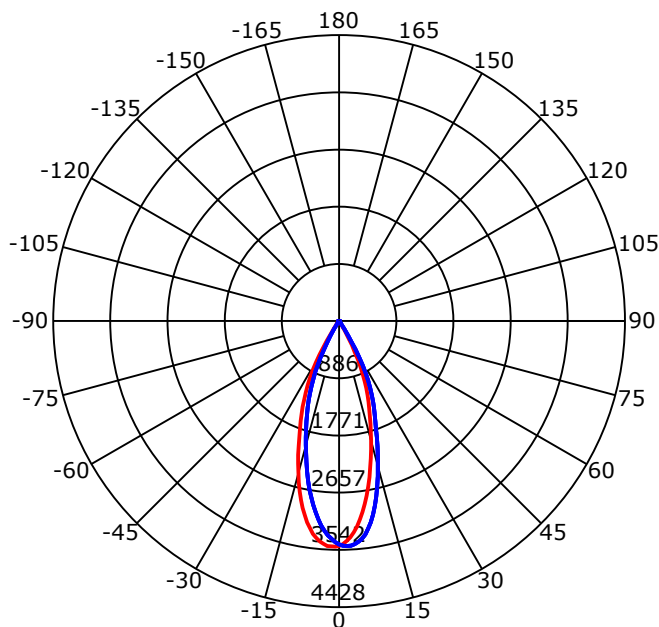
CIE Class: Direct
Luminaire Luminous Flux: 1432.895 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.23 lm/W
Beam Angle(50%) C0-180,C90-270: 36.5,36.1
Field Angle(10%) C0-180,C90-270: 60.7,60.6
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 3542.32 cd
Max.Intensity Angle: C=135 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3484.50 cd
Effective Luminous Flux: 1343.78 lm
ERP(ϕ use)(120deg): 1430.86 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.5 deg,36.1 deg

C0-180 — C90-270 —

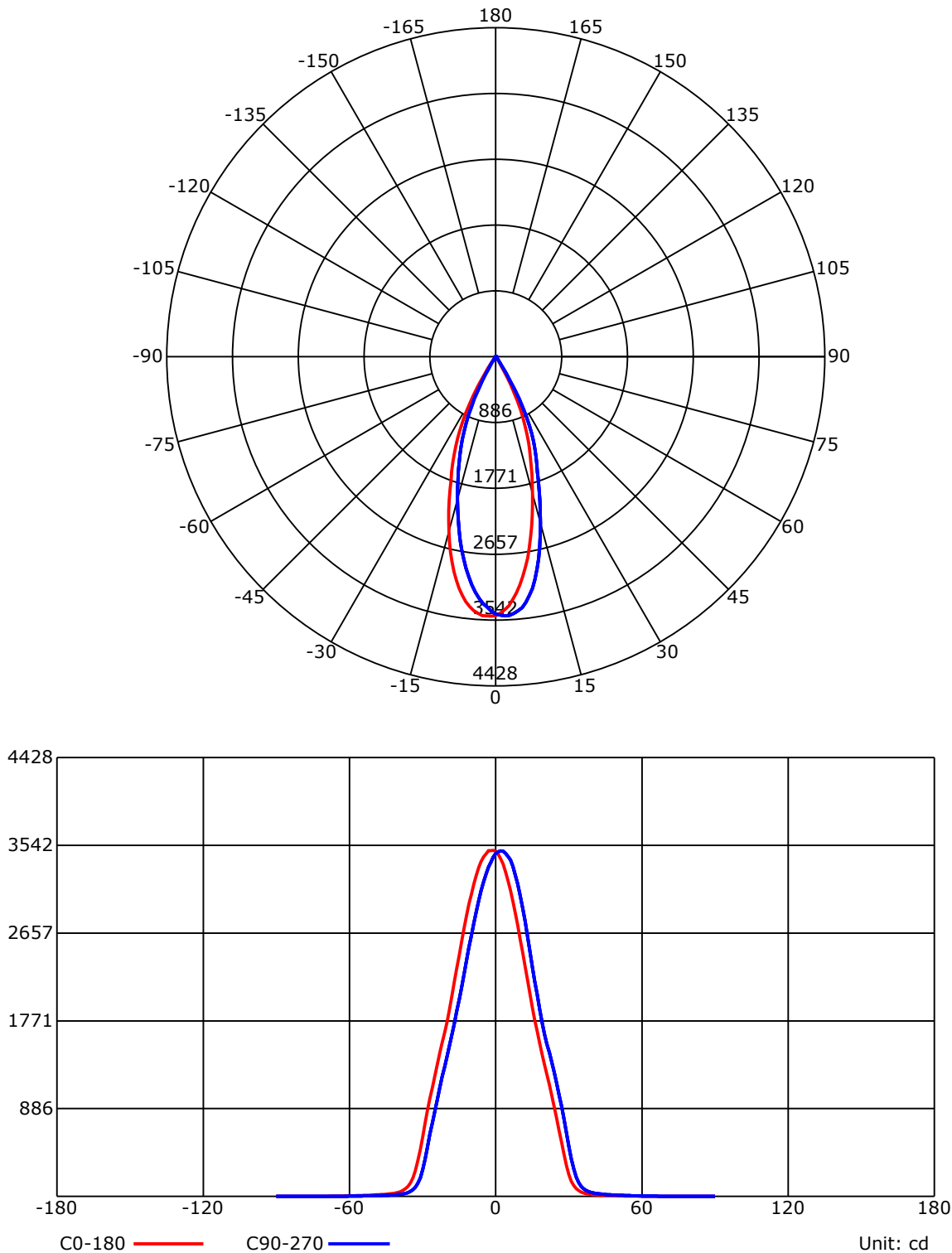
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/27 18:20:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



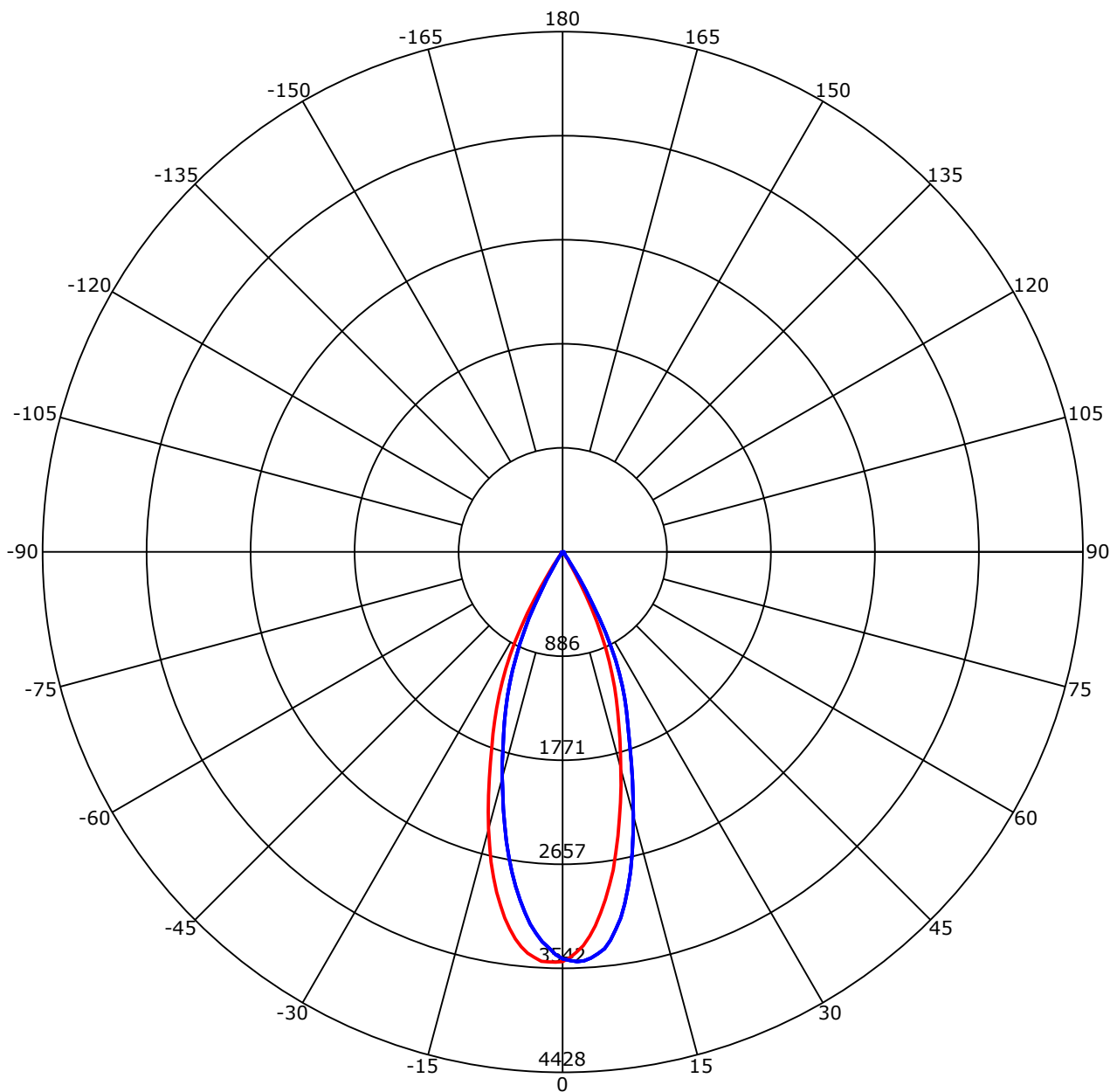
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/27 18:20:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

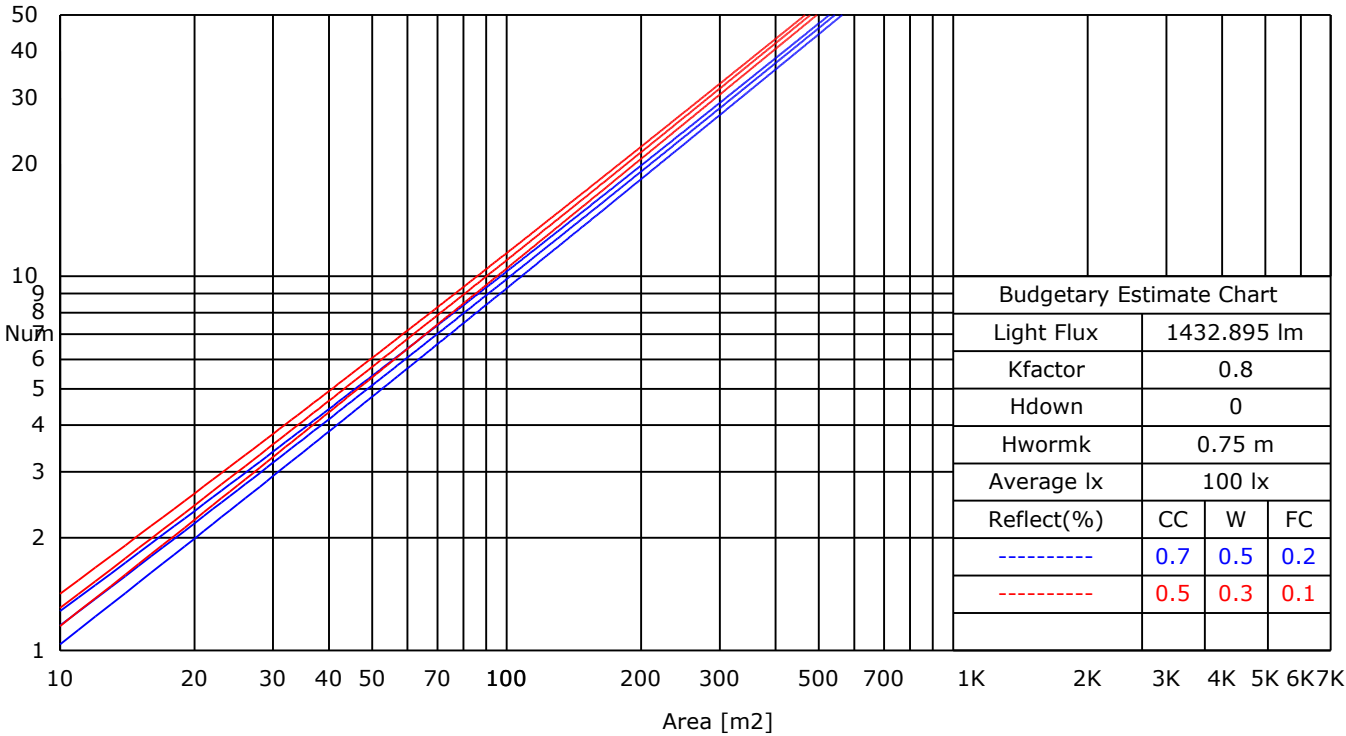
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UTILIZATION FACTORS TABLE

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	COEFFCIENTS 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	0.99	0.96	0.94	0.98	0.95	0.93	0.94	0.92	0.89	0.90	0.87	0.84	0.84	0.81	0.78	0.73
2	0.95	0.93	0.91	0.94	0.91	0.89	0.91	0.88	0.86	0.87	0.84	0.81	0.82	0.79	0.76	0.71
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.85	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.69
4	0.90	0.88	0.87	0.89	0.86	0.85	0.86	0.83	0.81	0.83	0.80	0.77	0.79	0.75	0.72	0.68
5	0.88	0.86	0.85	0.87	0.84	0.83	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.67
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.79	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.65
7	0.84	0.83	0.82	0.83	0.81	0.80	0.81	0.78	0.76	0.78	0.74	0.72	0.75	0.71	0.68	0.64
8	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.63
9	0.81	0.80	0.79	0.80	0.78	0.77	0.77	0.75	0.73	0.75	0.72	0.69	0.72	0.68	0.65	0.62
10	0.79	0.78	0.78	0.78	0.77	0.76	0.76	0.74	0.72	0.74	0.70	0.68	0.71	0.67	0.64	0.61

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



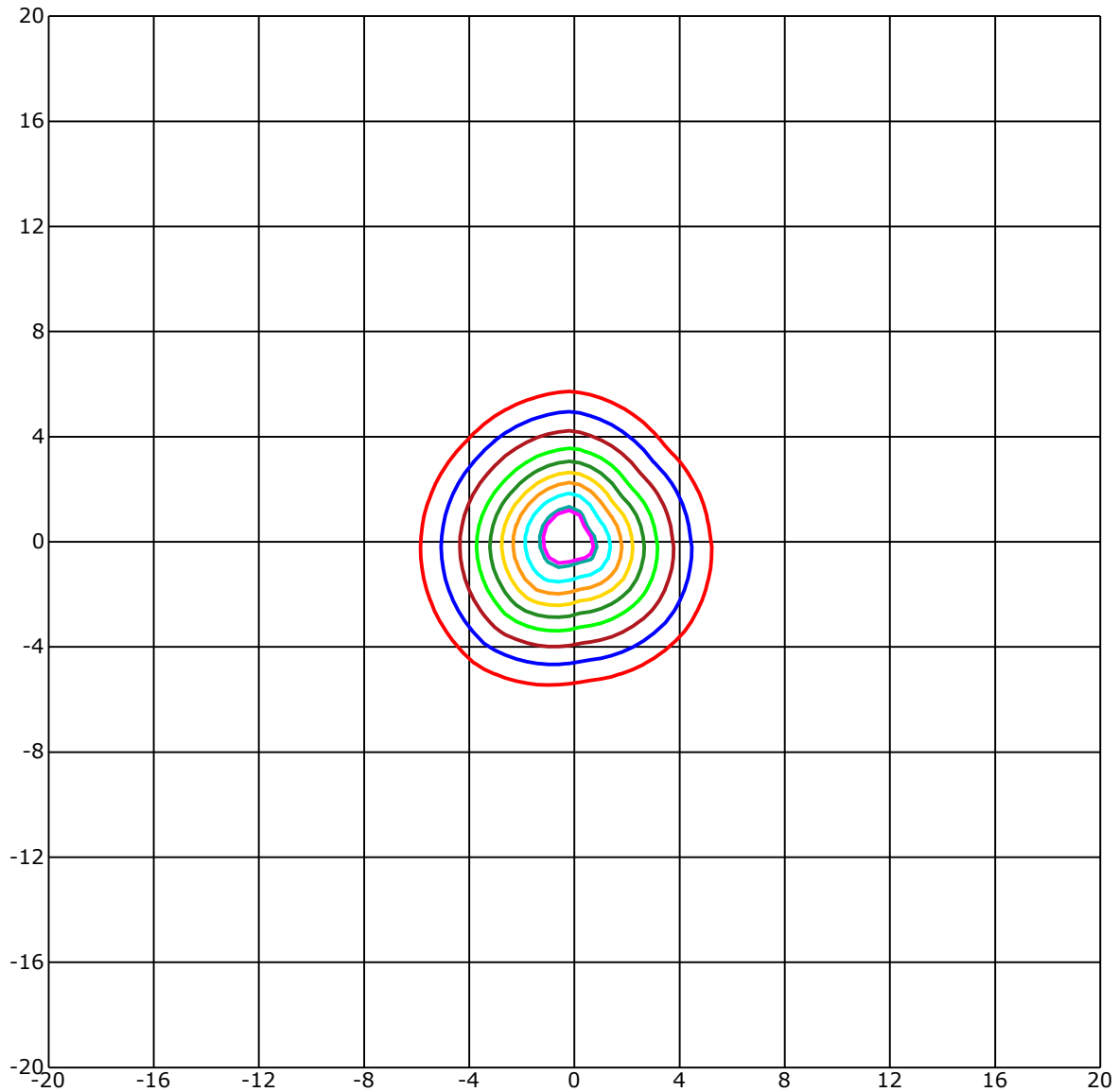
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ISOLX DIAGRAM



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

32.53(92%Emax)	17.679(50%Emax)
31.823(90%Emax)	14.143(40%Emax)
28.287(80%Emax)	10.608(30%Emax)
24.751(70%Emax)	7.072(20%Emax)
21.215(60%Emax)	3.536(10%Emax)

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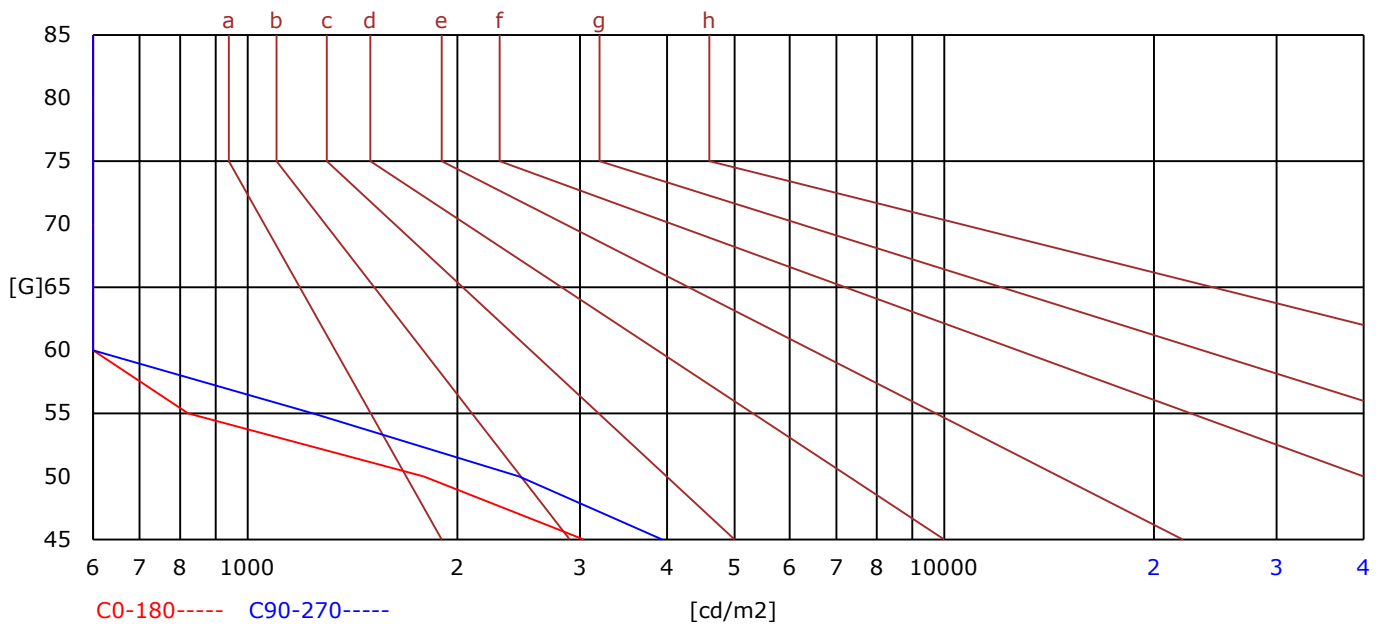
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	3038	1790	822	44	0	0	0	0	0
C90	3937	2455	1242	285	0	0	0	0	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



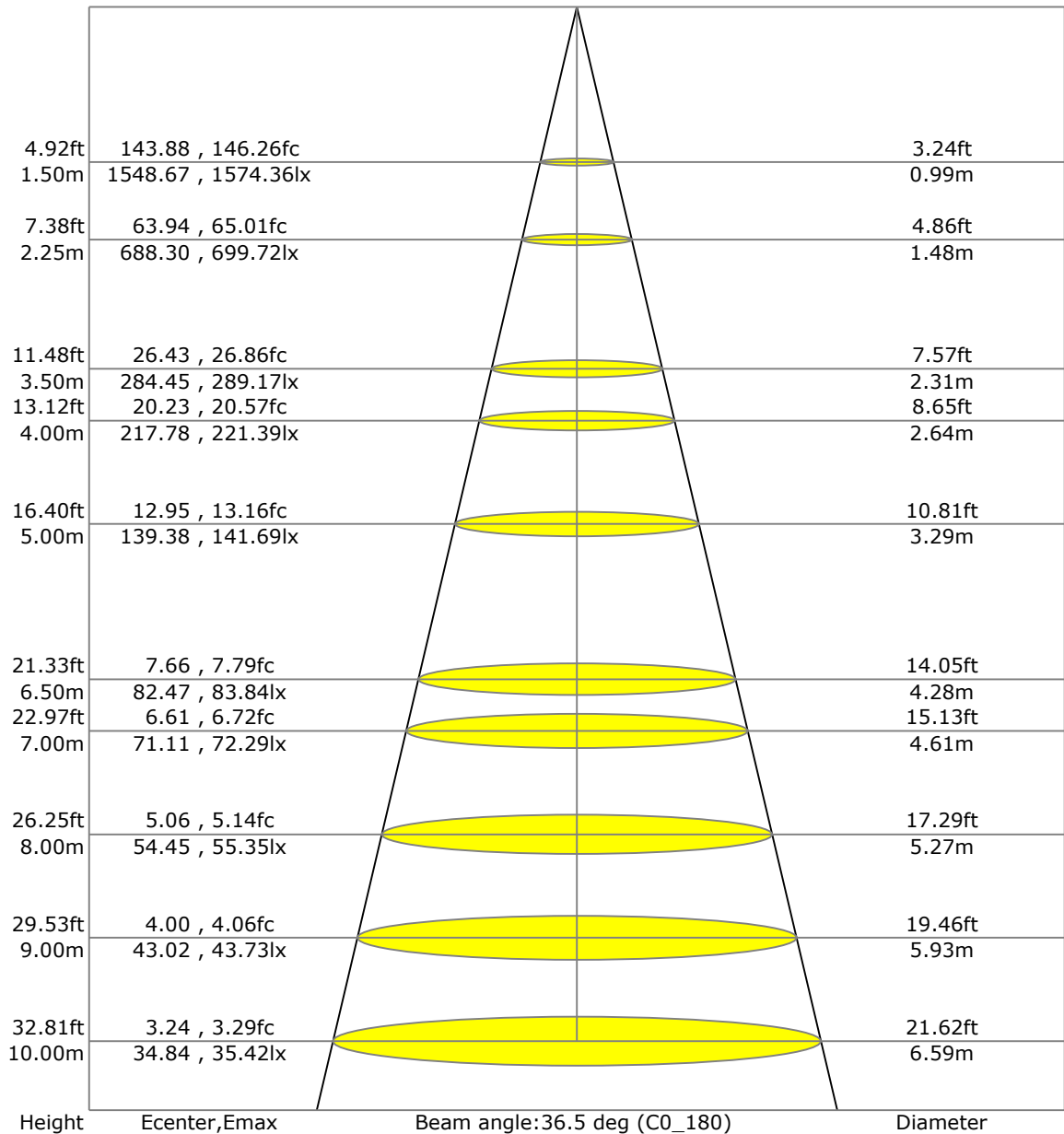
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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 Y	Viewed Endwise					Viewed Crosswise				
2H 2H	1.40	1.45	1.60	1.63	1.88	1.40	1.45	1.60	1.63	1.88
3H	1.37	1.42	1.58	1.62	1.86	1.37	1.42	1.58	1.62	1.86
4H	1.36	1.41	1.57	1.61	1.86	1.36	1.41	1.57	1.61	1.86
6H	1.35	1.40	1.56	1.60	1.85	1.35	1.40	1.56	1.60	1.85
8H	1.34	1.39	1.56	1.59	1.85	1.34	1.39	1.56	1.59	1.85
12H	1.33	1.38	1.55	1.59	1.84	1.33	1.38	1.55	1.59	1.84
4H 2H	1.36	1.41	1.57	1.61	1.86	1.36	1.41	1.57	1.61	1.86
3H	1.33	1.38	1.55	1.59	1.84	1.33	1.38	1.55	1.59	1.84
4H	1.31	1.36	1.54	1.58	1.84	1.31	1.36	1.54	1.58	1.84
6H	1.29	1.34	1.53	1.56	1.83	1.29	1.34	1.53	1.56	1.83
8H	1.28	1.33	1.52	1.56	1.82	1.28	1.33	1.52	1.56	1.82
12H	1.27	1.32	1.52	1.55	1.82	1.27	1.32	1.52	1.55	1.82
8H 4H	1.34	1.39	1.56	1.59	1.85	1.34	1.39	1.56	1.59	1.85
6H	1.25	1.30	1.51	1.54	1.81	1.25	1.30	1.51	1.54	1.81
8H	1.24	1.29	1.50	1.53	1.81	1.24	1.29	1.50	1.53	1.81
12H	1.22	1.27	1.49	1.52	1.80	1.22	1.27	1.49	1.52	1.80
12H 4H	1.27	1.32	1.52	1.55	1.82	1.27	1.32	1.52	1.55	1.82
6H	1.24	1.29	1.50	1.53	1.81	1.24	1.29	1.50	1.53	1.81

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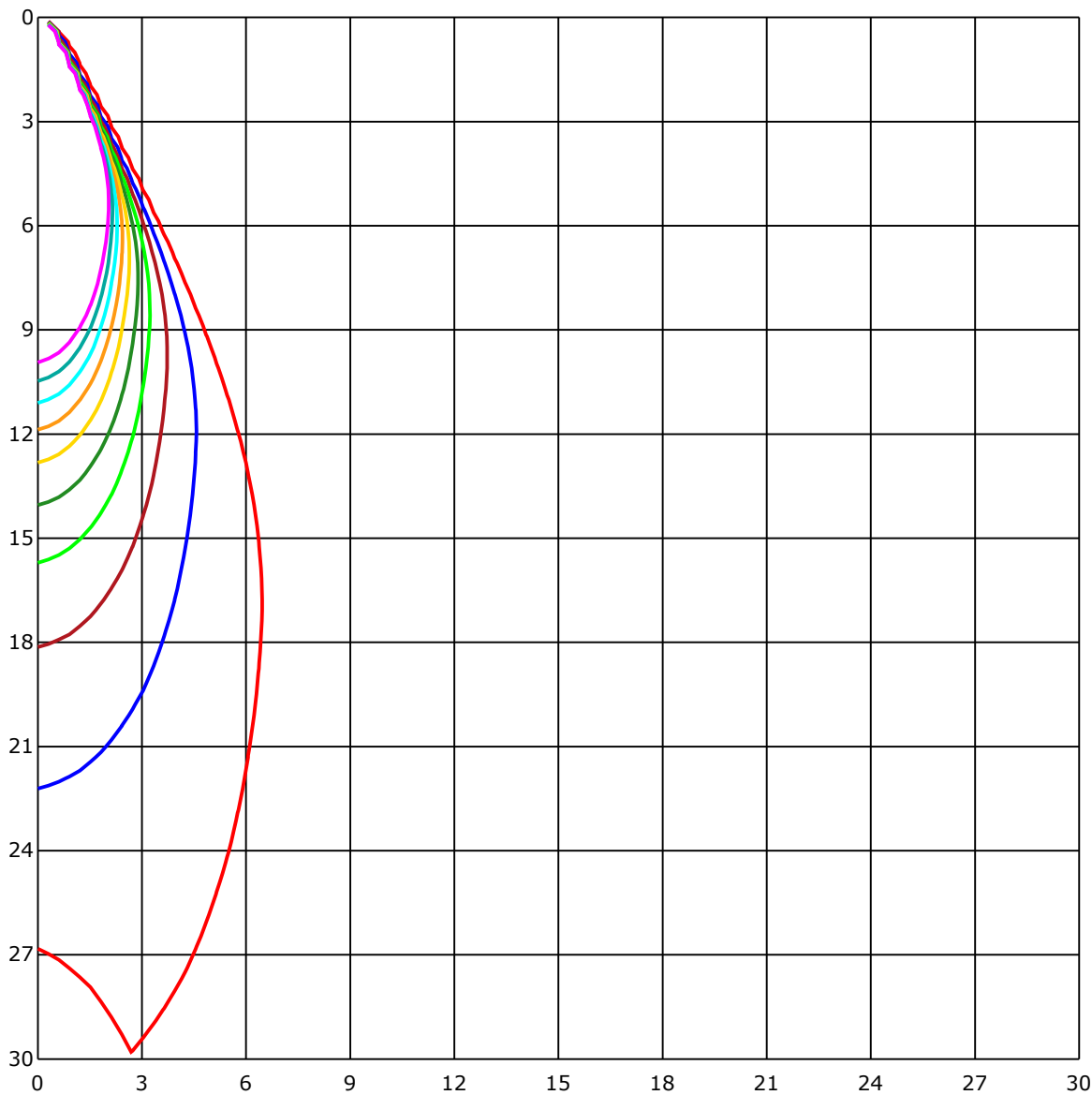
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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Remarks:

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Humidity: 60
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|--------|--------|
| 35.327 | 17.663 |
| 31.794 | 14.131 |
| 28.261 | 10.598 |
| 24.729 | 7.065 |
| 21.196 | 3.533 |

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3484.5	3425.78	3460.3	3518.03	3484.5	3425.78	3460.3	3518.03	3484.5	
G1	3452.71	3383.54	3477.13	3534.55	3491.23	3432.42	3425.2	3493.7	3452.71	
G2	3406.3	3344.26	3487.01	3542.32	3489.84	3434.76	3370.57	3445.08	3406.3	
G3	3354.72	3296.5	3482.39	3522.34	3487.91	3419.9	3321.82	3401.67	3354.72	
G4	3276.3	3217.85	3463.17	3494.55	3457.83	3404.46	3253.54	3339.5	3276.3	
G5	3192.98	3118.96	3431.62	3455.23	3426.63	3362.84	3178.44	3256.86	3192.98	
G6	3088.34	3021.1	3394.04	3402.62	3378.6	3329.45	3083.94	3165.42	3088.34	
G7	2978.9	2909.95	3329.94	3335.6	3318.0	3258.57	2982.63	3067.6	2978.9	
G8	2859.63	2793.55	3243.71	3248.38	3238.77	3199.36	2872.69	2945.41	2859.63	
G9	2739.82	2651.56	3153.43	3146.48	3153.52	3123.04	2759.61	2837.36	2739.82	
G10	2600.7	2522.77	3042.11	3032.86	3052.92	3026.53	2638.41	2713.2	2600.7	
G11	2461.09	2372.57	2907.75	2900.12	2948.96	2928.18	2511.51	2584.59	2461.09	
G12	2320.59	2228.83	2780.08	2772.14	2830.0	2824.3	2378.5	2448.53	2320.59	
G13	2186.64	2081.01	2627.5	2613.5	2707.85	2711.72	2242.93	2318.3	2186.64	
G14	2047.57	1938.62	2477.48	2459.07	2575.03	2593.92	2112.79	2172.68	2047.57	
G15	1912.67	1797.44	2320.81	2311.21	2436.32	2466.48	1990.92	2045.14	1912.67	
G16	1783.84	1671.66	2175.41	2150.1	2298.95	2338.37	1867.38	1917.16	1783.84	
G17	1662.01	1556.83	2031.54	2003.35	2164.37	2207.87	1741.15	1797.35	1662.01	
G18	1544.93	1454.26	1888.79	1857.28	2021.35	2080.7	1631.44	1690.38	1544.93	
G19	1435.58	1356.04	1757.31	1731.72	1889.06	1952.13	1523.43	1579.86	1435.58	
G20	1330.45	1259.48	1638.26	1615.77	1762.61	1828.1	1415.2	1471.67	1330.45	
G21	1231.74	1150.8	1538.29	1516.07	1654.47	1706.94	1309.98	1368.02	1231.74	
G22	1122.47	1041.85	1448.02	1420.28	1548.39	1607.33	1204.71	1262.98	1122.47	
G23	1013.93	923.39	1350.29	1319.77	1442.81	1495.56	1093.07	1150.17	1013.93	
G24	901.48	807.98	1250.41	1214.63	1332.07	1386.83	975.59	1038.89	901.48	
G25	787.46	688.88	1140.88	1097.25	1218.94	1276.58	862.92	929.81	787.46	
G26	664.1	564.81	1026.63	975.1	1103.22	1164.81	747.87	815.56	664.1	
G27	541.15	438.58	904.76	848.83	987.98	1050.74	629.09	692.25	541.15	
G28	421.02	326.44	777.99	715.73	869.83	934.12	499.18	564.04	421.02	
G29	311.58	232.49	641.03	575.44	740.82	813.86	376.13	438.98	311.58	
G30	221.49	161.51	503.49	445.8	601.08	684.03	272.08	322.53	221.49	
G31	152.4	114.33	380.13	326.57	471.08	550.13	186.7	229.66	152.4	
G32	107.11	83.41	274.14	230.06	353.6	425.29	128.34	160.75	107.11	
G33	79.37	61.45	194.15	158.28	257.26	314.5	92.56	117.39	79.37	
G34	58.63	45.65	140.24	112.23	185.84	227.05	68.37	89.02	58.63	
G35	43.9	35.55	103.65	81.92	137.14	164.07	50.77	68.32	43.9	
G36	34.39	28.82	78.56	60.15	103.29	121.16	38.96	54.14	34.39	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	28.33	23.75	60.96	44.49	78.6	90.9	31.11	44.8	28.33	
G38	23.88	20.25	49.06	34.3	61.41	70.34	25.95	38.2	23.88	
G39	20.51	17.46	40.13	27.07	49.24	56.16	22.4	33.49	20.51	
G40	17.96	15.35	34.3	22.18	40.18	45.61	19.53	29.76	17.96	
G41	15.89	13.38	29.81	18.9	34.43	38.56	17.42	26.75	15.89	
G42	14.01	12.17	26.49	16.43	29.94	33.44	15.44	24.24	14.01	
G43	12.61	10.77	23.88	14.5	26.62	29.31	13.83	22.22	12.61	
G44	11.27	9.79	21.41	12.75	23.93	26.31	12.61	20.42	11.27	
G45	10.37	8.8	19.66	11.4	21.46	23.84	11.36	18.9	10.37	
G46	9.38	7.77	17.87	10.06	19.53	21.91	10.64	17.78	9.38	
G47	8.62	7.05	16.3	9.02	18.18	19.93	9.65	16.38	8.62	
G48	7.77	6.15	14.99	8.08	16.79	18.45	9.07	15.26	7.77	
G49	7.09	5.48	13.6	7.23	15.53	17.1	8.21	14.23	7.09	
G50	6.24	4.71	12.57	6.46	14.23	15.76	7.77	13.33	6.24	
G51	5.48	4.08	11.54	5.75	13.29	14.72	6.82	12.52	5.48	
G52	4.8	3.5	10.46	4.89	12.21	13.6	6.33	11.54	4.8	
G53	4.22	3.01	9.52	4.13	11.36	12.66	5.75	10.77	4.22	
G54	3.86	2.51	8.8	3.5	10.28	11.94	5.16	9.92	3.86	
G55	3.32	1.93	7.81	2.92	9.43	10.95	4.58	9.38	3.32	
G56	2.92	1.62	7.05	2.33	8.57	10.01	4.13	8.57	2.92	
G57	2.56	1.26	6.28	1.93	7.77	9.2	3.73	8.04	2.56	
G58	2.15	0.67	5.75	1.3	7.14	8.53	3.32	7.32	2.15	
G59	1.84	0.4	5.07	1.08	6.55	7.99	2.74	6.73	1.84	
G60	1.48	0.09	4.58	0.58	5.88	7.45	2.47	6.19	1.48	
G61	1.12	0.0	4.08	0.22	5.48	6.78	1.89	5.75	1.12	
G62	0.76	0.0	3.73	0.18	4.98	6.24	1.53	4.98	0.76	
G63	0.45	0.0	3.14	0.0	4.53	5.84	1.03	4.71	0.45	
G64	0.04	0.0	2.78	0.0	4.04	5.25	0.45	3.95	0.04	
G65	0.0	0.0	2.51	0.0	3.73	4.58	0.0	3.32	0.0	
G66	0.0	0.0	2.2	0.0	3.23	4.22	0.0	1.93	0.0	
G67	0.0	0.0	1.66	0.0	2.69	3.5	0.0	1.21	0.0	
G68	0.0	0.0	1.3	0.0	2.06	2.83	0.0	0.85	0.0	
G69	0.0	0.0	0.94	0.0	1.35	1.57	0.0	0.72	0.0	
G70	0.0	0.0	0.94	0.0	1.12	1.17	0.0	0.72	0.0	
G71	0.0	0.0	0.67	0.0	1.03	0.94	0.0	0.72	0.0	
G72	0.0	0.0	0.67	0.0	0.76	0.85	0.0	0.58	0.0	
G73	0.0	0.0	0.49	0.0	0.67	0.67	0.0	0.45	0.0	

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