

Report No.:

Test Time: 2024/6/12 15:28:12

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H90-24°-15W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 68 mm

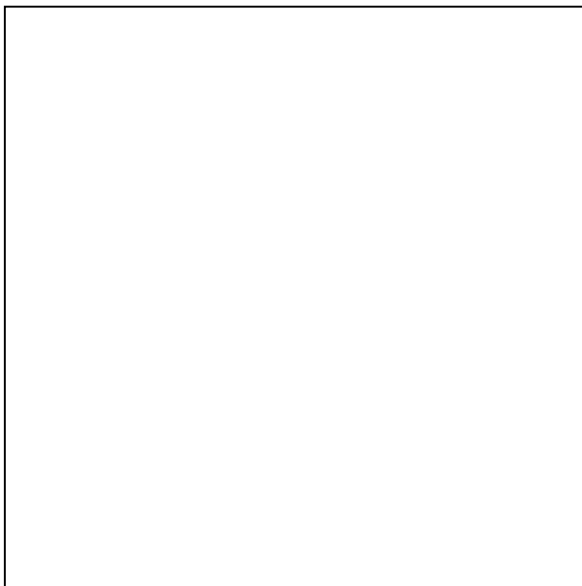
Voltage(V): 219.90 V
Current(A): 0.0730 A
Power(W): 15.24 W
Power Factor: 0.9470
Lamp Luminous Flux: 1449.04

Photometric Results

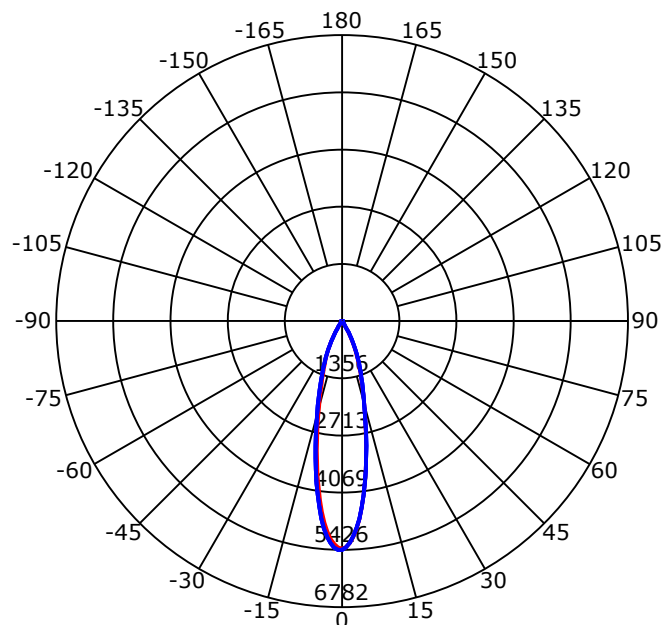
CIE Class: Direct
Luminaire Luminous Flux: 1449.044 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.08 lm/W
Beam Angle(50%) C0-180,C90-270: 24.6,25.3
Field Angle(10%) C0-180,C90-270: 54.8,55.4
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 5425.76 cd
Max.Intensity Angle: C=270 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5394.21 cd
Effective Luminous Flux: 1309.50 lm
ERP(ϕ use)(120deg): 1446.01 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.6 deg,25.3 deg

C0-180 — C90-270 —

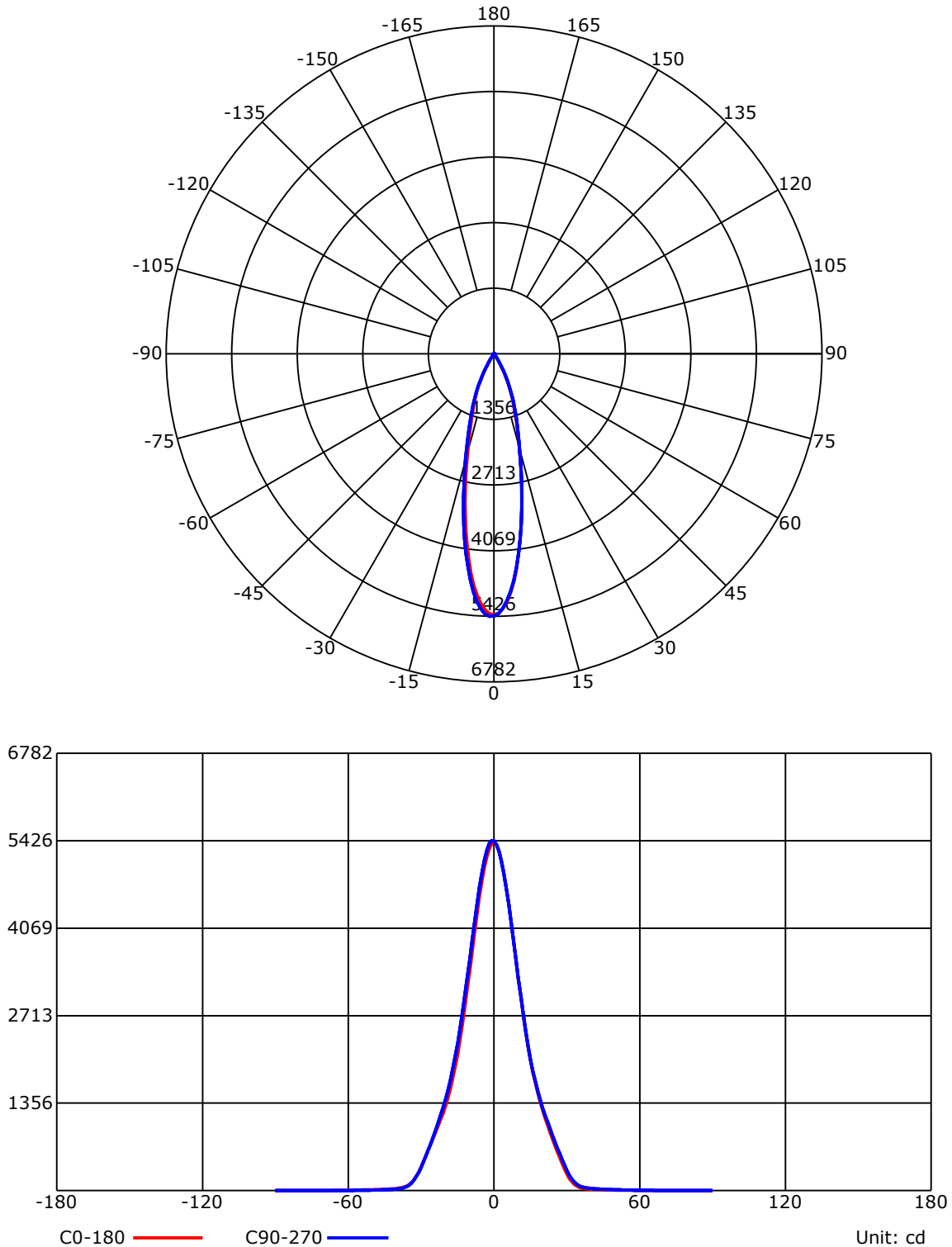
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/12 15:28:12

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



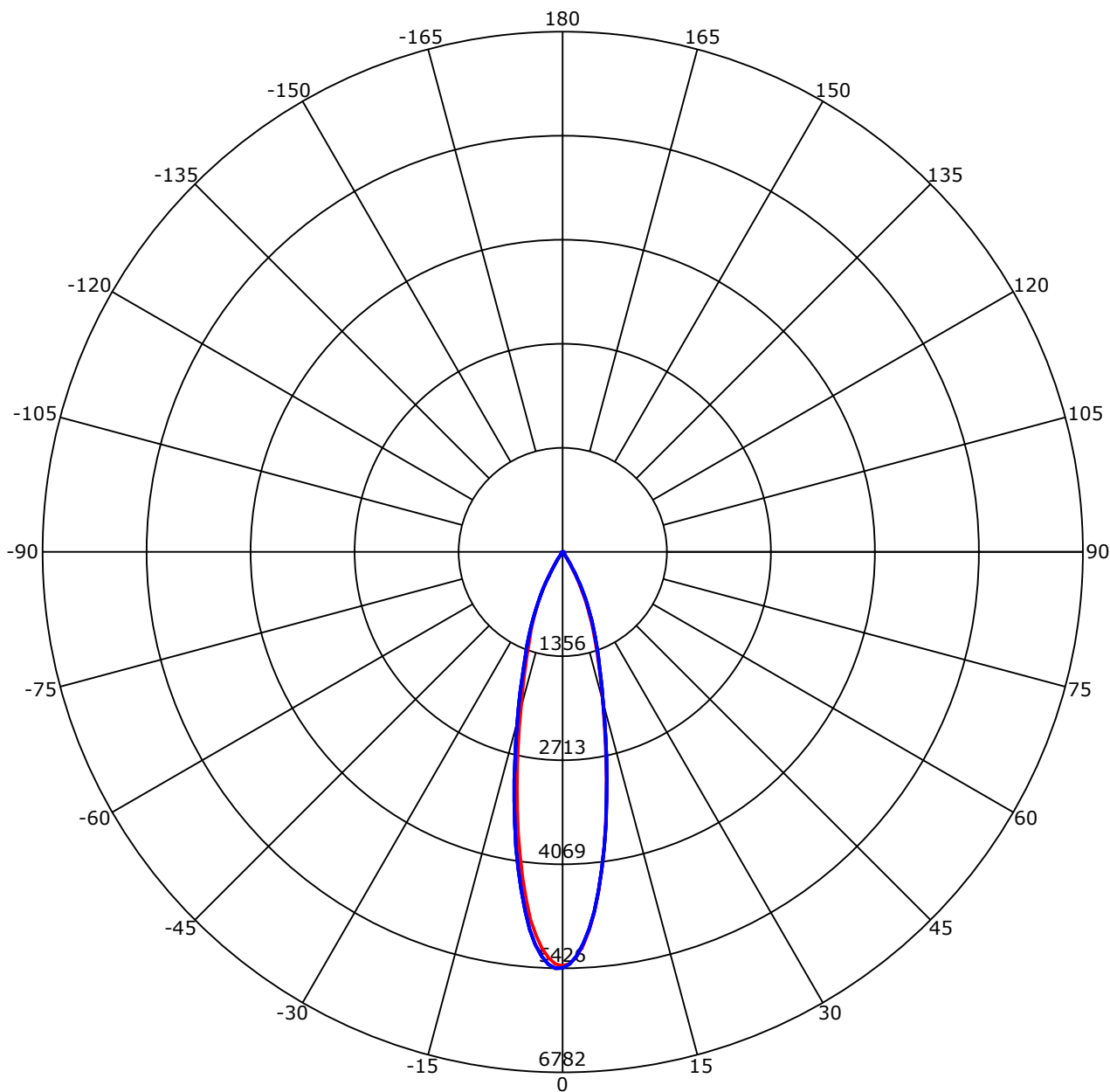
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/12 15:28:12

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



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: 2024/6/12 15:28:12

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

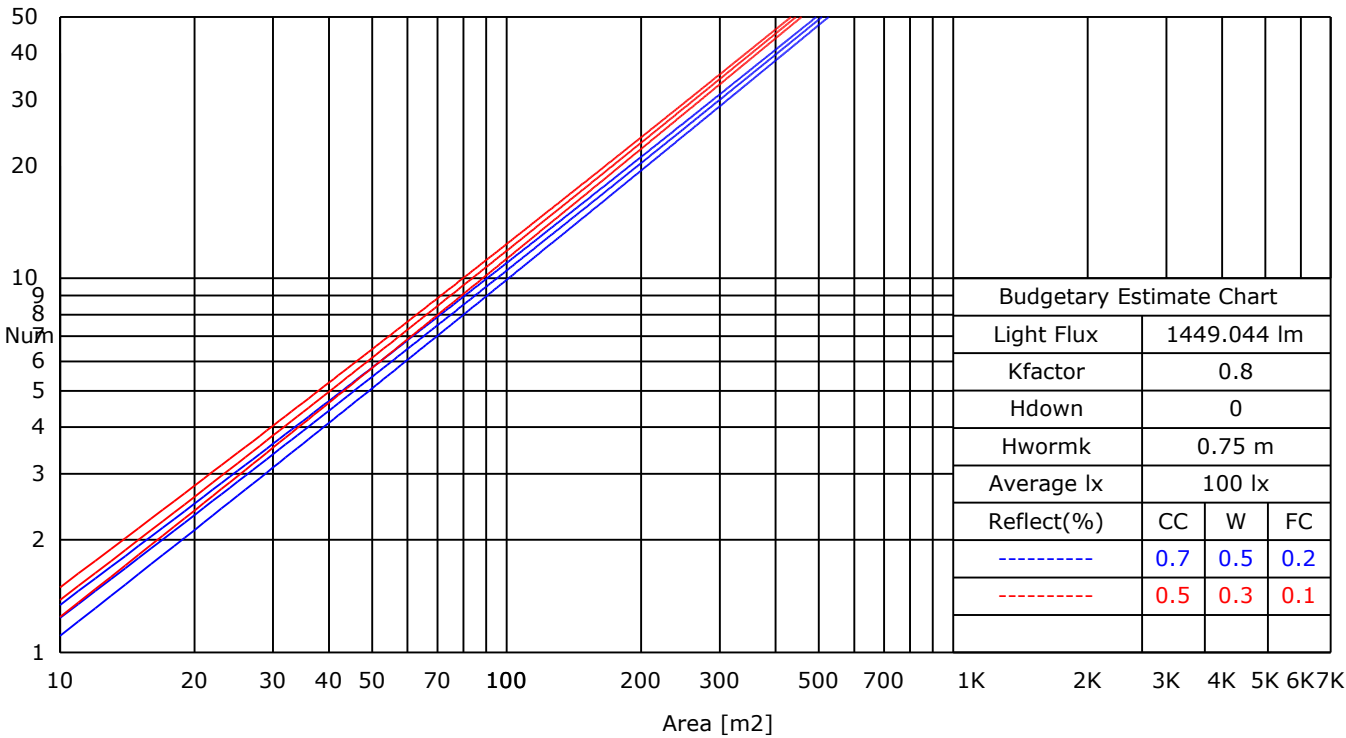
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UTILIZATION FACTORS TABLE

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	0.91	0.88	0.85	0.90	0.87	0.84	0.88	0.84	0.81	0.84	0.80	0.76	0.79	0.75	0.71	0.66
2	0.88	0.85	0.83	0.87	0.84	0.81	0.85	0.81	0.78	0.82	0.78	0.74	0.77	0.73	0.69	0.65
3	0.85	0.83	0.81	0.84	0.82	0.79	0.82	0.79	0.76	0.80	0.76	0.72	0.76	0.71	0.68	0.63
4	0.83	0.81	0.79	0.82	0.80	0.78	0.80	0.77	0.74	0.78	0.74	0.70	0.74	0.70	0.66	0.62
5	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.68	0.65	0.61
6	0.79	0.77	0.76	0.78	0.76	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.72	0.67	0.64	0.60
7	0.78	0.76	0.75	0.77	0.75	0.73	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.62	0.59
8	0.76	0.75	0.74	0.75	0.73	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.61	0.58
9	0.75	0.73	0.73	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.67	0.64	0.68	0.64	0.60	0.57
10	0.74	0.72	0.72	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.63	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



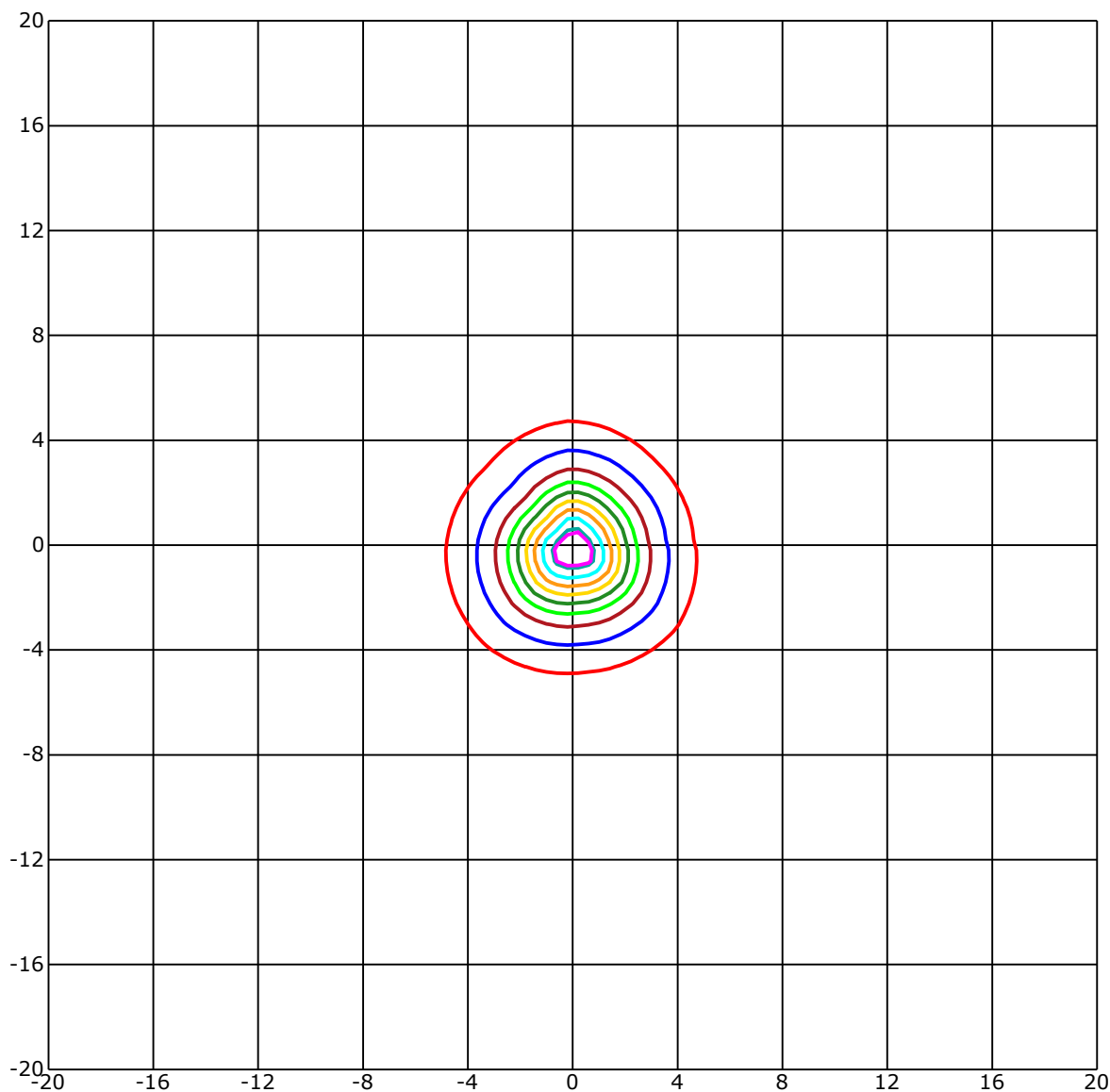
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/12 15:28:12

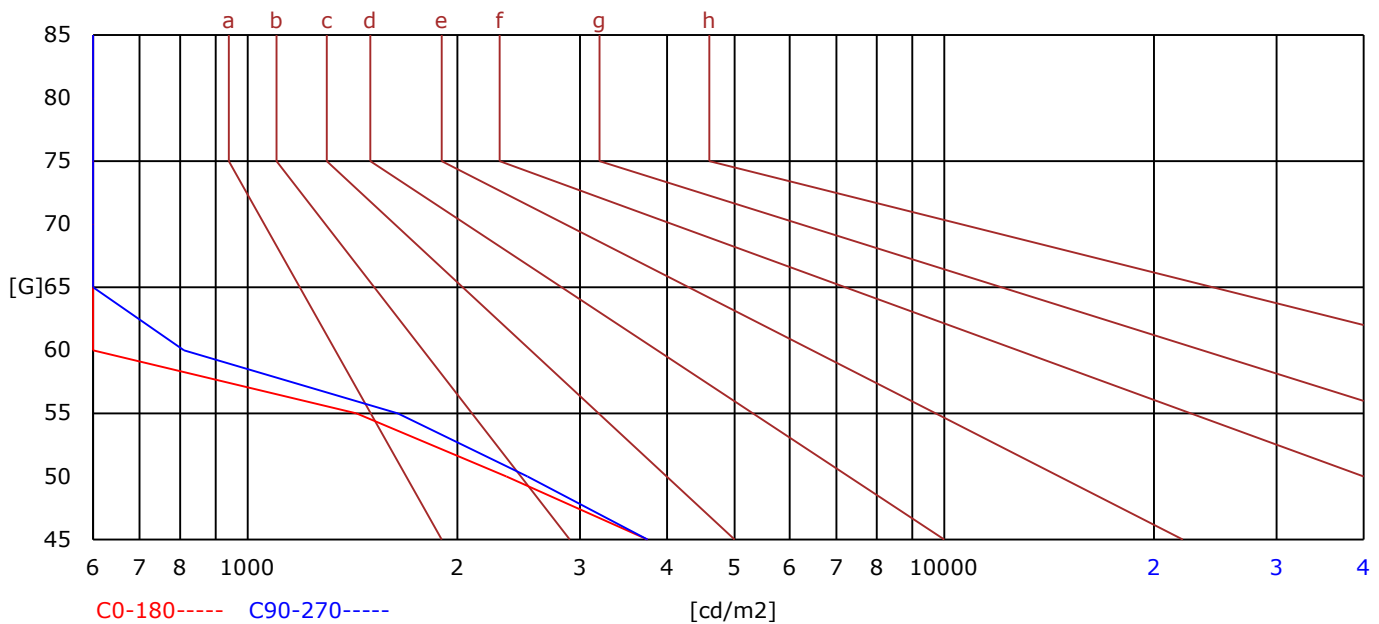
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

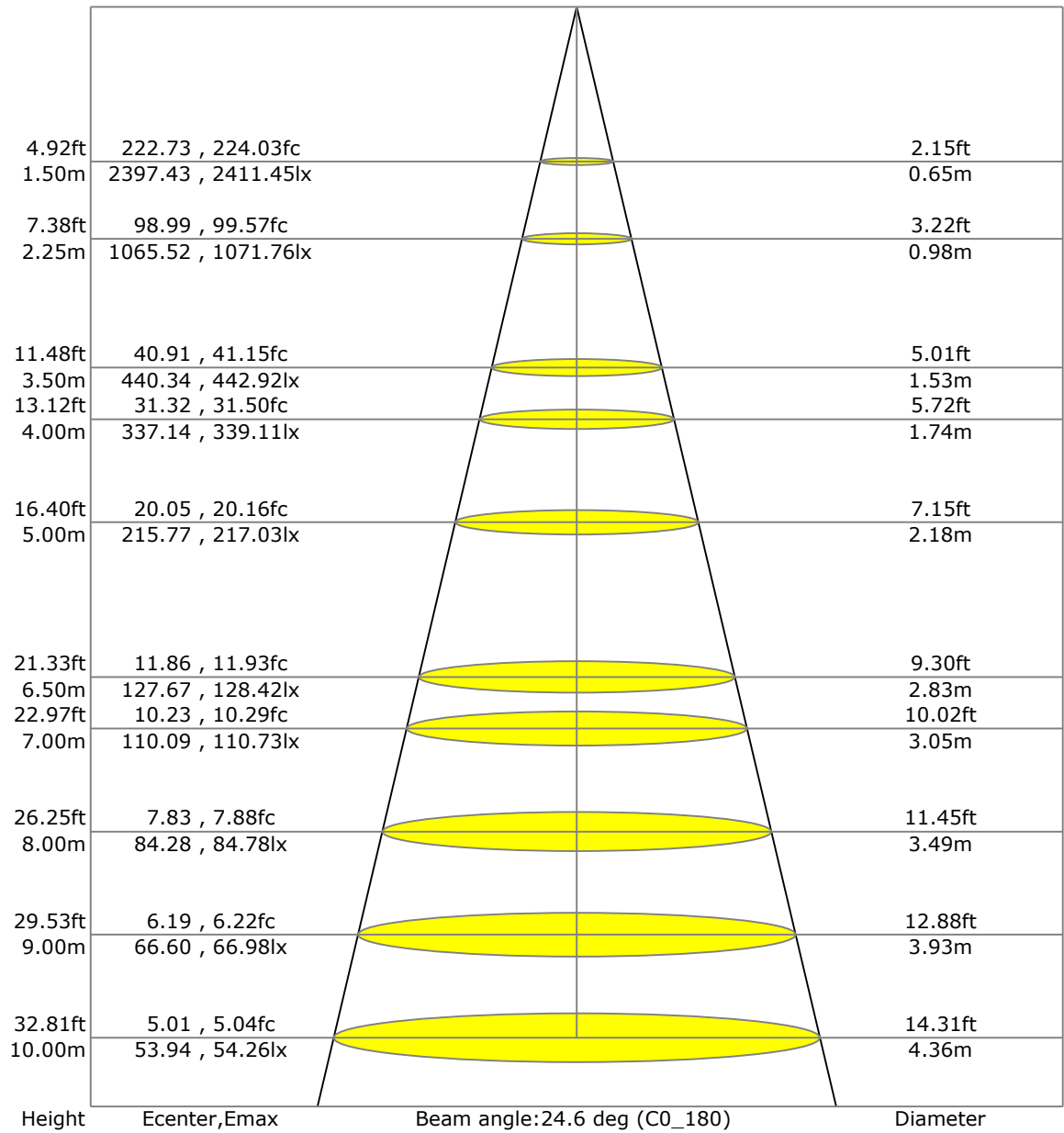
C/G	45	50	55	60	65	70	75	80	85
C0	3751	2353	1433	482	0	0	0	0	0
C90	3751	2523	1643	811	0	0	0	0	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



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Remarks:

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	1.43	1.48	1.63	1.67	1.91	1.43	1.48	1.63	1.67	1.91
3H	1.40	1.46	1.61	1.65	1.90	1.40	1.46	1.61	1.65	1.90
4H	1.39	1.45	1.60	1.65	1.89	1.39	1.45	1.60	1.65	1.89
6H	1.38	1.44	1.59	1.64	1.89	1.38	1.44	1.59	1.64	1.89
8H	1.37	1.43	1.59	1.63	1.88	1.37	1.43	1.59	1.63	1.88
12H	1.36	1.42	1.58	1.63	1.88	1.36	1.42	1.58	1.63	1.88
4H 2H	1.39	1.45	1.60	1.65	1.89	1.40	1.46	1.61	1.65	1.90
3H	1.36	1.42	1.58	1.63	1.88	1.37	1.43	1.59	1.63	1.89
4H	1.34	1.40	1.57	1.61	1.87	1.35	1.41	1.58	1.62	1.88
6H	1.32	1.38	1.56	1.60	1.87	1.33	1.39	1.57	1.61	1.87
8H	1.31	1.37	1.55	1.59	1.86	1.32	1.38	1.56	1.60	1.87
12H	1.30	1.35	1.55	1.59	1.86	1.31	1.36	1.56	1.60	1.87
8H 4H	1.37	1.43	1.59	1.63	1.88	1.44	1.50	1.66	1.70	1.95
6H	1.28	1.34	1.54	1.58	1.85	1.37	1.43	1.63	1.67	1.94
8H	1.27	1.32	1.53	1.57	1.85	1.36	1.41	1.62	1.66	1.94
12H	1.25	1.31	1.52	1.56	1.84	1.34	1.39	1.61	1.65	1.93
12H 4H	1.30	1.35	1.55	1.59	1.86	1.41	1.47	1.66	1.70	1.97
6H	1.27	1.32	1.53	1.57	1.85	1.39	1.44	1.65	1.69	1.97

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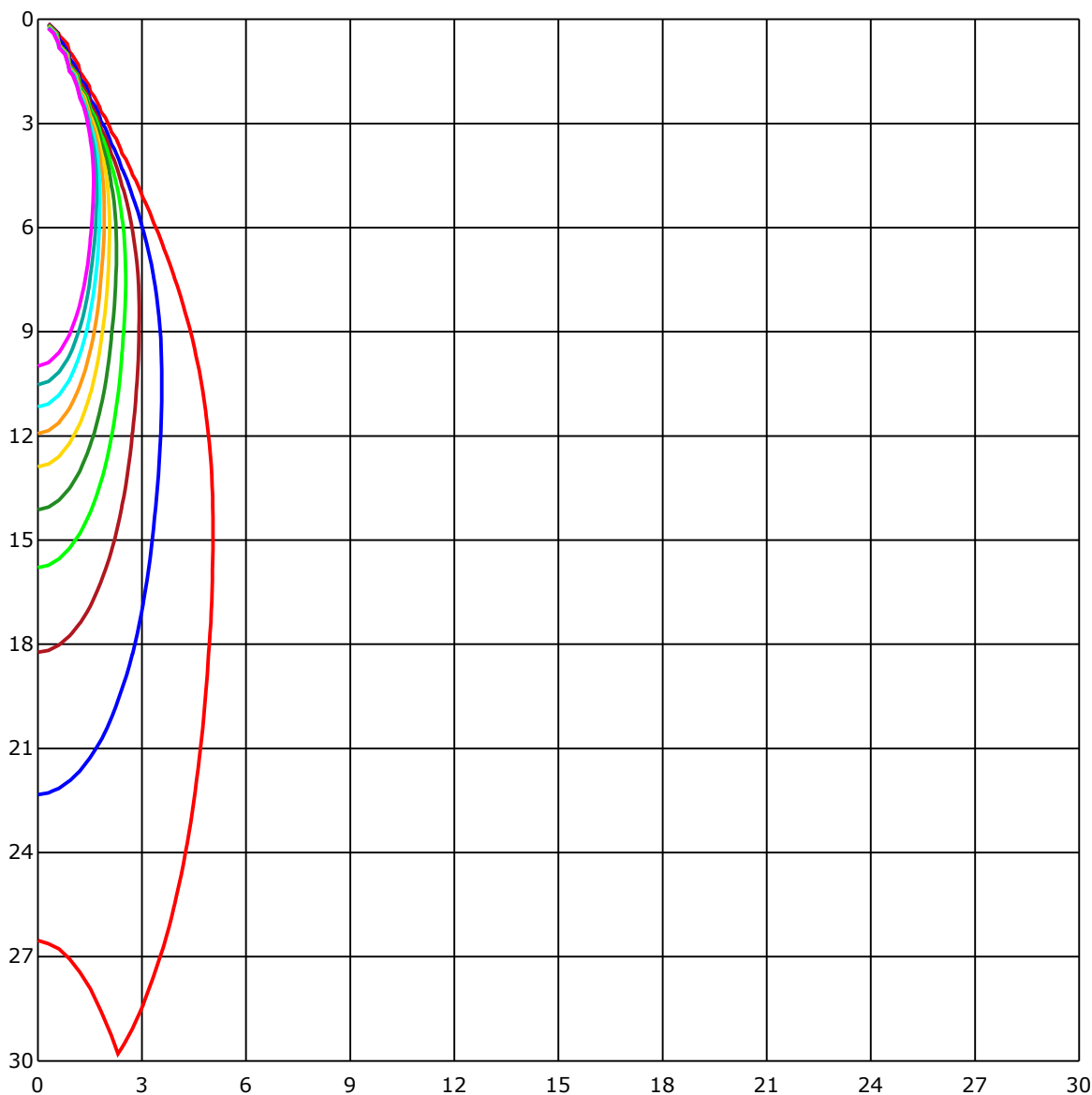
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Humidity: 60
Test Distance: 6.7 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

54.088	27.044
48.679	21.635
43.27	16.226
37.862	10.818
32.453	5.409

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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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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5394.21	5364.67	5422.89	5333.25	5394.21	5364.67	5422.89	5333.25	5394.21	
G1	5362.65	5276.6	5366.51	5210.65	5371.13	5395.51	5425.76	5408.12	5362.65	
G2	5272.87	5143.41	5263.58	5035.04	5294.01	5383.88	5379.03	5424.28	5272.87	
G3	5131.78	4971.7	5109.33	4820.11	5171.01	5316.91	5275.38	5384.24	5131.78	
G4	4941.81	4762.78	4923.36	4567.74	5006.49	5209.39	5127.38	5283.73	4941.81	
G5	4722.25	4507.32	4705.46	4286.41	4808.21	5052.01	4938.44	5134.7	4722.25	
G6	4459.51	4233.13	4447.34	3997.9	4556.87	4861.63	4705.24	4936.1	4459.51	
G7	4168.35	3951.76	4162.43	3684.8	4279.54	4628.88	4438.99	4701.42	4168.35	
G8	3883.93	3659.12	3878.41	3380.26	3998.35	4371.21	4166.47	4436.61	3883.93	
G9	3575.98	3369.17	3595.29	3079.54	3708.5	4102.9	3891.38	4157.22	3575.98	
G10	3276.84	3084.66	3293.49	2792.97	3411.01	3825.26	3592.82	3868.84	3276.84	
G11	2988.42	2818.06	3017.06	2514.33	3127.04	3540.61	3304.98	3557.98	2988.42	
G12	2710.1	2558.64	2738.2	2266.59	2843.33	3260.72	3035.37	3273.06	2710.1	
G13	2456.92	2323.78	2481.61	2035.27	2579.51	2994.66	2768.95	2985.63	2456.92	
G14	2229.1	2107.41	2246.83	1831.65	2344.92	2732.05	2519.68	2714.9	2229.1	
G15	2015.34	1908.86	2039.62	1653.16	2110.23	2485.74	2285.98	2464.82	2015.34	
G16	1836.0	1734.68	1852.52	1502.96	1911.87	2263.44	2076.75	2232.56	1836.0	
G17	1664.84	1576.18	1691.14	1364.66	1735.81	2060.09	1885.56	2024.14	1664.84	
G18	1509.29	1424.18	1542.91	1248.8	1572.95	1867.29	1707.98	1842.2	1509.29	
G19	1371.48	1291.84	1411.21	1147.79	1436.62	1700.25	1555.26	1677.09	1371.48	
G20	1246.28	1169.25	1280.85	1056.31	1309.08	1544.35	1416.55	1537.89	1246.28	
G21	1127.64	1053.12	1172.66	965.18	1198.25	1410.0	1292.61	1403.04	1127.64	
G22	1014.51	942.96	1067.26	879.89	1099.22	1288.7	1170.51	1282.69	1014.51	
G23	905.03	836.26	963.34	794.06	1001.68	1163.37	1054.51	1163.37	905.03	
G24	803.26	735.88	859.91	704.41	912.52	1052.67	944.49	1055.9	803.26	
G25	703.65	637.44	761.83	612.7	817.45	947.13	841.24	950.37	703.65	
G26	606.96	543.39	666.12	522.38	726.59	845.37	737.32	844.52	606.96	
G27	511.52	453.03	574.23	435.16	636.45	748.0	637.39	749.03	511.52	
G28	420.08	367.29	482.25	349.56	545.68	651.26	543.8	649.51	420.08	
G29	333.85	289.32	397.28	269.34	458.73	559.1	452.09	551.07	333.85	
G30	253.58	218.21	314.19	200.16	373.17	467.17	363.7	455.5	253.58	
G31	187.19	162.37	240.16	144.77	292.73	380.85	285.59	363.12	187.19	
G32	136.11	119.59	179.47	104.41	222.79	302.78	216.59	279.98	136.11	
G33	96.92	86.82	134.0	75.37	167.75	234.28	161.11	210.31	96.92	
G34	69.49	63.16	100.42	55.35	125.42	177.41	117.52	154.65	69.49	
G35	51.04	47.54	76.13	42.11	93.91	133.1	84.53	113.48	51.04	
G36	39.19	36.63	59.48	34.16	71.78	100.01	61.27	84.53	39.19	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	31.69	30.12	48.93	28.42	57.28	76.45	44.85	65.23	31.69	
G38	26.93	25.27	41.3	24.33	47.54	60.47	35.01	52.3	26.93	
G39	22.89	21.82	36.09	21.1	40.31	49.33	28.77	43.5	22.89	
G40	20.2	19.03	32.01	18.58	35.24	41.48	24.06	37.62	20.2	
G41	17.82	17.1	28.91	16.83	31.29	36.27	20.69	33.35	17.82	
G42	16.03	15.17	26.26	15.04	28.55	31.74	18.18	29.99	16.03	
G43	14.1	13.56	24.02	13.38	25.86	28.68	16.12	27.34	14.1	
G44	12.61	12.17	21.95	12.08	23.61	26.08	14.41	24.69	12.61	
G45	11.31	10.86	20.16	10.86	21.77	23.84	12.84	22.58	11.31	
G46	10.32	9.92	18.45	9.88	20.11	21.64	11.54	20.83	10.32	
G47	9.29	8.84	17.19	8.89	18.63	19.75	10.23	19.08	9.29	
G48	8.44	7.95	15.76	8.21	17.55	18.18	9.11	17.42	8.44	
G49	7.54	7.05	14.54	7.27	15.89	16.83	8.08	15.94	7.54	
G50	6.73	6.19	13.6	6.64	14.81	15.53	7.36	14.77	6.73	
G51	6.11	5.7	12.61	5.93	13.78	14.5	6.55	13.87	6.11	
G52	5.48	4.94	11.67	5.39	12.93	13.42	5.97	12.7	5.48	
G53	4.98	4.31	10.64	4.85	12.12	12.39	5.25	11.76	4.98	
G54	4.4	3.73	10.01	4.35	11.4	11.4	4.76	11.04	4.4	
G55	3.86	3.37	9.29	3.86	10.32	10.82	4.17	10.1	3.86	
G56	3.46	2.74	8.62	3.32	9.88	9.97	3.64	9.38	3.46	
G57	2.78	2.29	8.04	2.92	9.02	9.34	3.19	8.84	2.78	
G58	2.33	1.89	7.23	2.42	8.35	8.57	2.65	8.04	2.33	
G59	1.89	1.48	6.69	1.93	7.72	7.81	2.29	7.54	1.89	
G60	1.53	0.99	5.93	1.66	7.0	7.09	1.8	6.82	1.53	
G61	0.99	0.72	5.43	1.17	6.64	6.69	1.44	6.28	0.99	
G62	0.63	0.36	4.8	0.81	6.02	5.97	0.9	5.79	0.63	
G63	0.4	0.13	4.4	0.45	5.39	5.52	0.49	5.12	0.4	
G64	0.22	0.0	4.04	0.13	4.94	4.85	0.22	4.71	0.22	
G65	0.0	0.0	3.46	0.0	4.49	4.49	0.0	4.17	0.0	
G66	0.0	0.0	2.83	0.0	4.13	3.95	0.0	3.77	0.0	
G67	0.0	0.0	2.29	0.0	3.14	3.32	0.0	3.14	0.0	
G68	0.0	0.0	1.71	0.0	2.24	2.38	0.0	2.47	0.0	
G69	0.0	0.0	1.48	0.0	1.71	2.06	0.0	1.98	0.0	
G70	0.0	0.0	1.44	0.0	1.66	1.66	0.0	1.8	0.0	
G71	0.0	0.0	1.44	0.0	1.48	1.8	0.0	1.66	0.0	
G72	0.0	0.0	1.21	0.0	1.44	1.57	0.0	1.44	0.0	
G73	0.0	0.0	1.26	0.0	1.3	1.62	0.0	1.26	0.0	

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Remarks:

[illegible]

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