

Report No.:

Test Time: 2024/5/25 11:36:18

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT095H78-45°-10.6W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

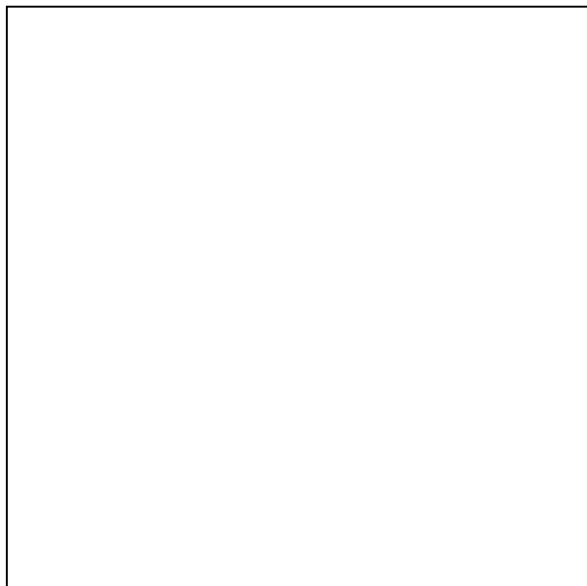
Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.63 W
Power Factor: 0.9180
Lamp Luminous Flux: 1132.73

Photometric Results

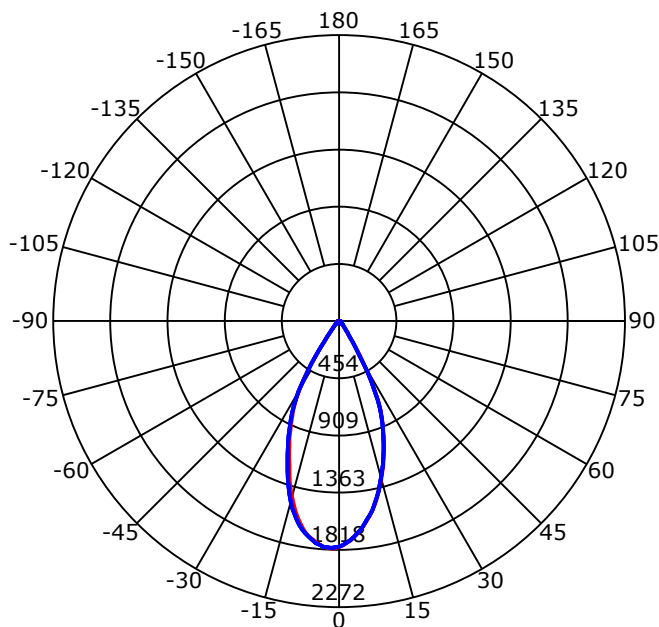
CIE Class: Direct
Luminaire Luminous Flux: 1132.725 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 106.56 lm/W
Beam Angle(50%) C0-180,C90-270: 47.6,48.0
Field Angle(10%) C0-180,C90-270: 69.7,69.8
S/MH C0-180,C90-270: 0.728,0.768

Max. Intensity: 1817.87 cd
Max.Intensity Angle: C=225 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1795.51 cd
Effective Luminous Flux: 1022.64 lm
ERP(ϕ use)(120deg): 1119.32 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 47.6 deg,48.0 deg

C0-180 — C90-270 —

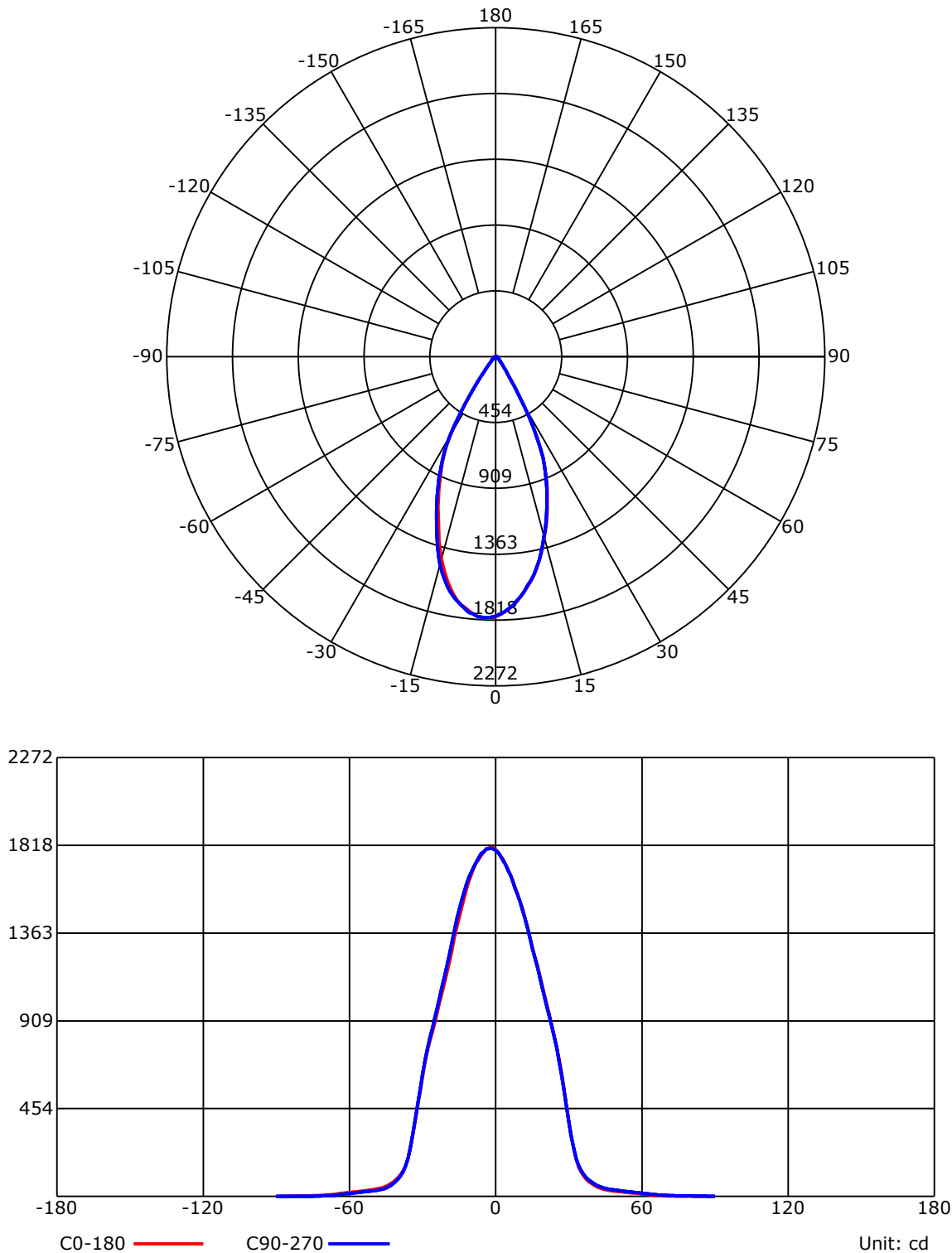
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/25 11:36:18

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



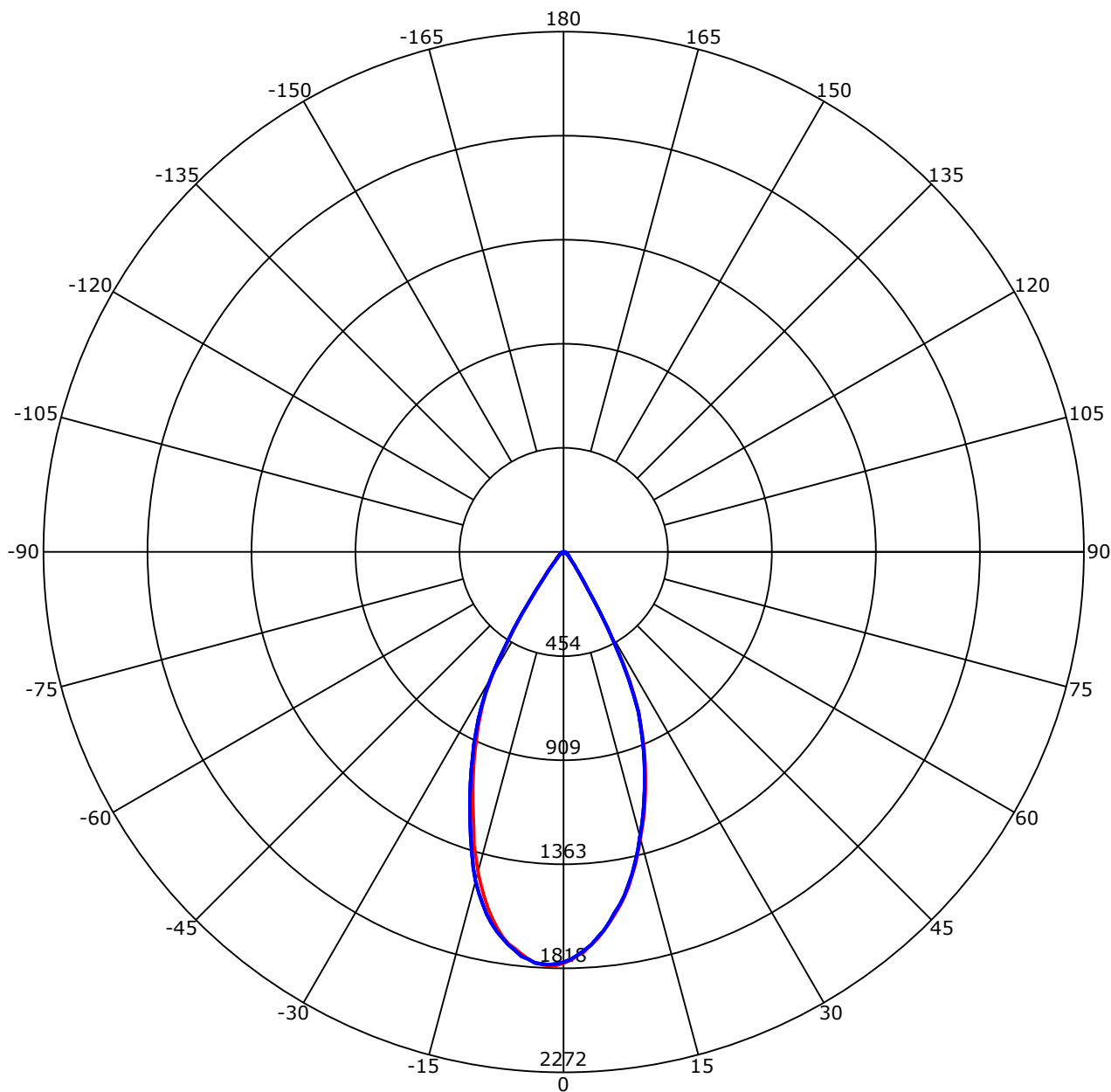
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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Luminous Intensity Distribution Curve



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: 2024/5/25 11:36:18

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

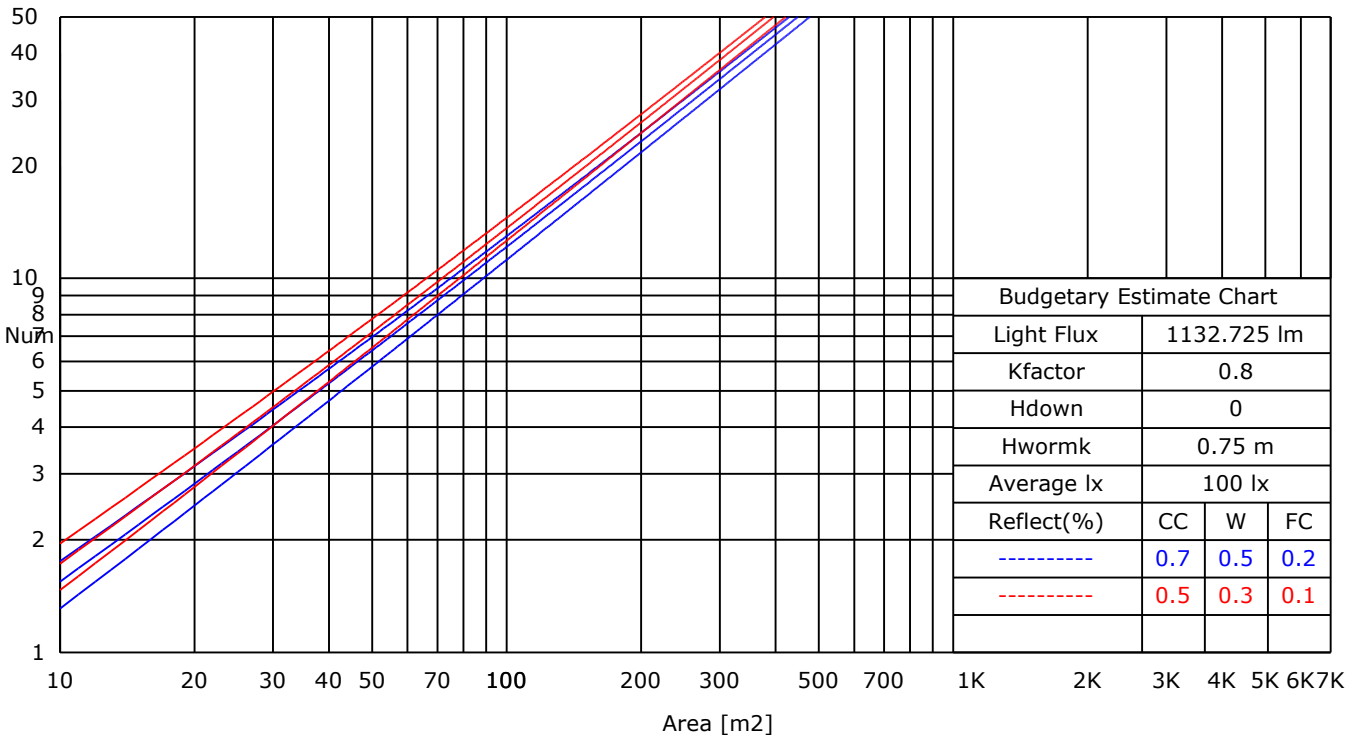
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UTILIZATION FACTORS TABLE

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	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	1.00	0.98	0.97	0.98	0.96	0.95	0.95	0.93	0.91	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.95	0.94	0.93	0.94	0.92	0.91	0.91	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
4	0.92	0.90	0.89	0.91	0.89	0.87	0.88	0.85	0.83	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	0.83	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.85	0.84	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.76	0.74	0.77	0.73	0.70	0.66
7	0.84	0.82	0.81	0.83	0.81	0.79	0.80	0.78	0.76	0.78	0.74	0.72	0.75	0.71	0.67	0.64
8	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.62
9	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.61
10	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.71	0.70	0.72	0.68	0.66	0.69	0.65	0.62	0.59

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



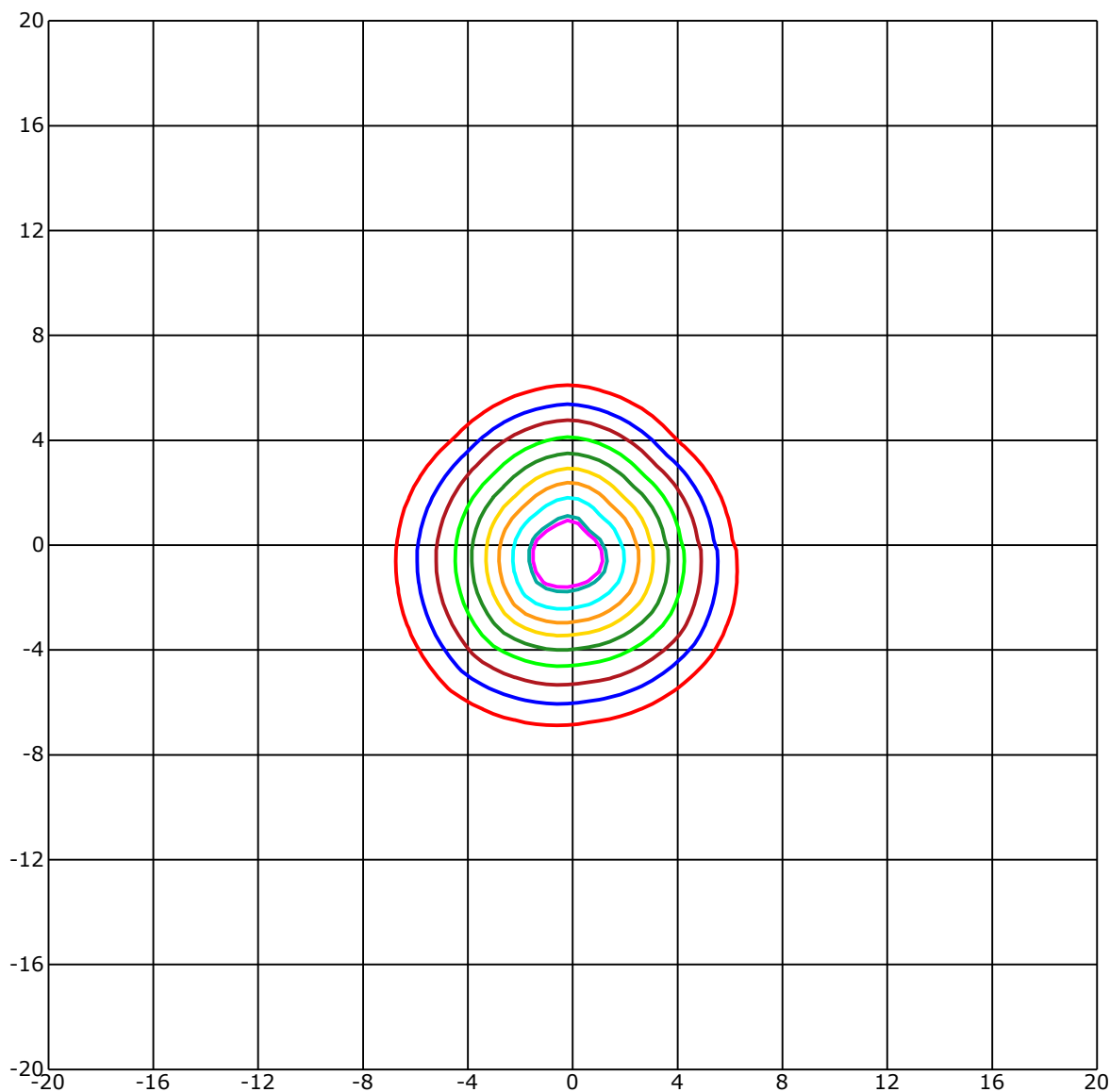
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/25 11:36:18

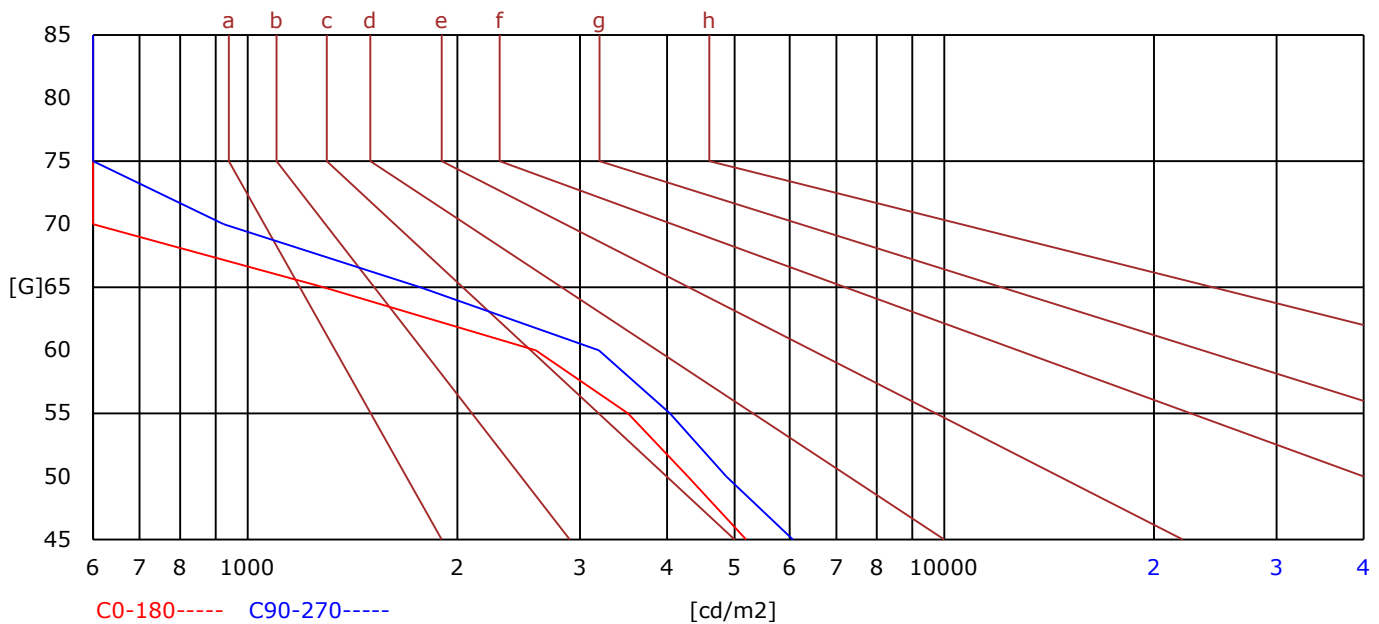
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5196	4285	3517	2594	1285	551	171	0	0
C90	6066	4863	4039	3192	1770	924	300	160	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



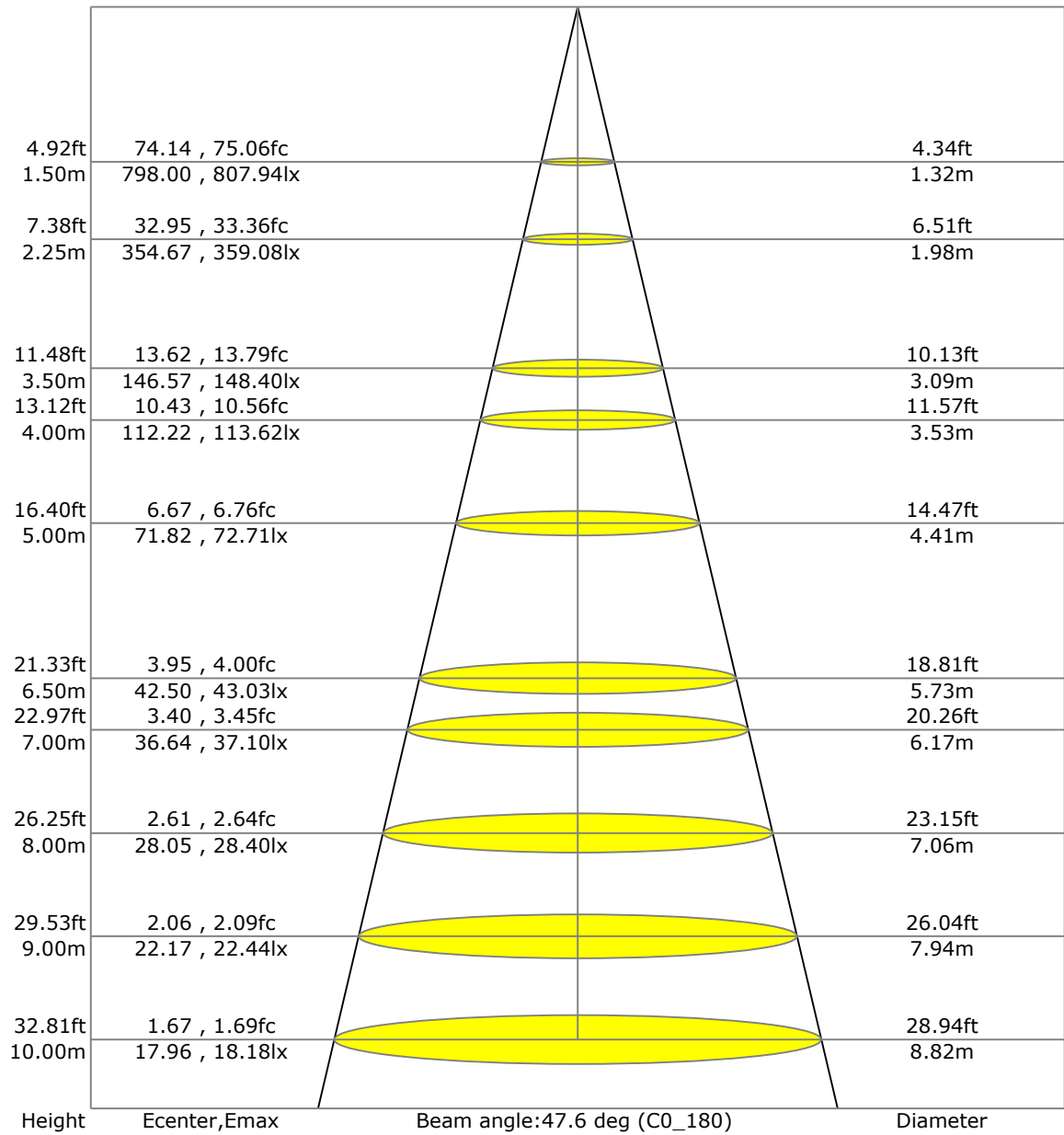
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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G Interval: 1.0 Deg
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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	6.29	6.34	6.49	6.53	6.77	6.61	6.66	6.81	6.85	7.09
3H	6.29	6.34	6.49	6.53	6.78	6.59	6.64	6.80	6.84	7.08
4H	6.28	6.33	6.49	6.52	6.77	6.58	6.63	6.79	6.82	7.07
6H	6.26	6.31	6.47	6.51	6.76	6.56	6.61	6.78	6.81	7.06
8H	6.25	6.30	6.47	6.50	6.76	6.55	6.60	6.77	6.81	7.06
12H	6.24	6.29	6.46	6.50	6.75	6.54	6.59	6.76	6.80	7.05
4H 2H	6.44	6.49	6.65	6.69	6.93	6.98	7.03	7.19	7.23	7.47
3H	6.43	6.48	6.65	6.69	6.94	6.96	7.01	7.18	7.22	7.47
4H	6.41	6.46	6.64	6.67	6.93	6.94	6.99	7.17	7.20	7.46
6H	6.39	6.44	6.63	6.66	6.92	6.92	6.97	7.16	7.19	7.45
8H	6.38	6.43	6.62	6.65	6.92	6.91	6.95	7.15	7.18	7.45
12H	6.37	6.41	6.61	6.64	6.91	6.89	6.94	7.14	7.17	7.44
8H 4H	6.42	6.47	6.63	6.67	6.92	7.06	7.11	7.28	7.31	7.57
6H	6.35	6.40	6.61	6.64	6.91	7.01	7.05	7.26	7.29	7.56
8H	6.34	6.38	6.60	6.63	6.90	6.99	7.03	7.25	7.28	7.56
12H	6.32	6.36	6.59	6.62	6.90	6.97	7.01	7.24	7.27	7.55
12H 4H	6.37	6.41	6.61	6.64	6.91	7.08	7.12	7.33	7.36	7.63
6H	6.34	6.38	6.60	6.63	6.90	7.05	7.10	7.32	7.34	7.62

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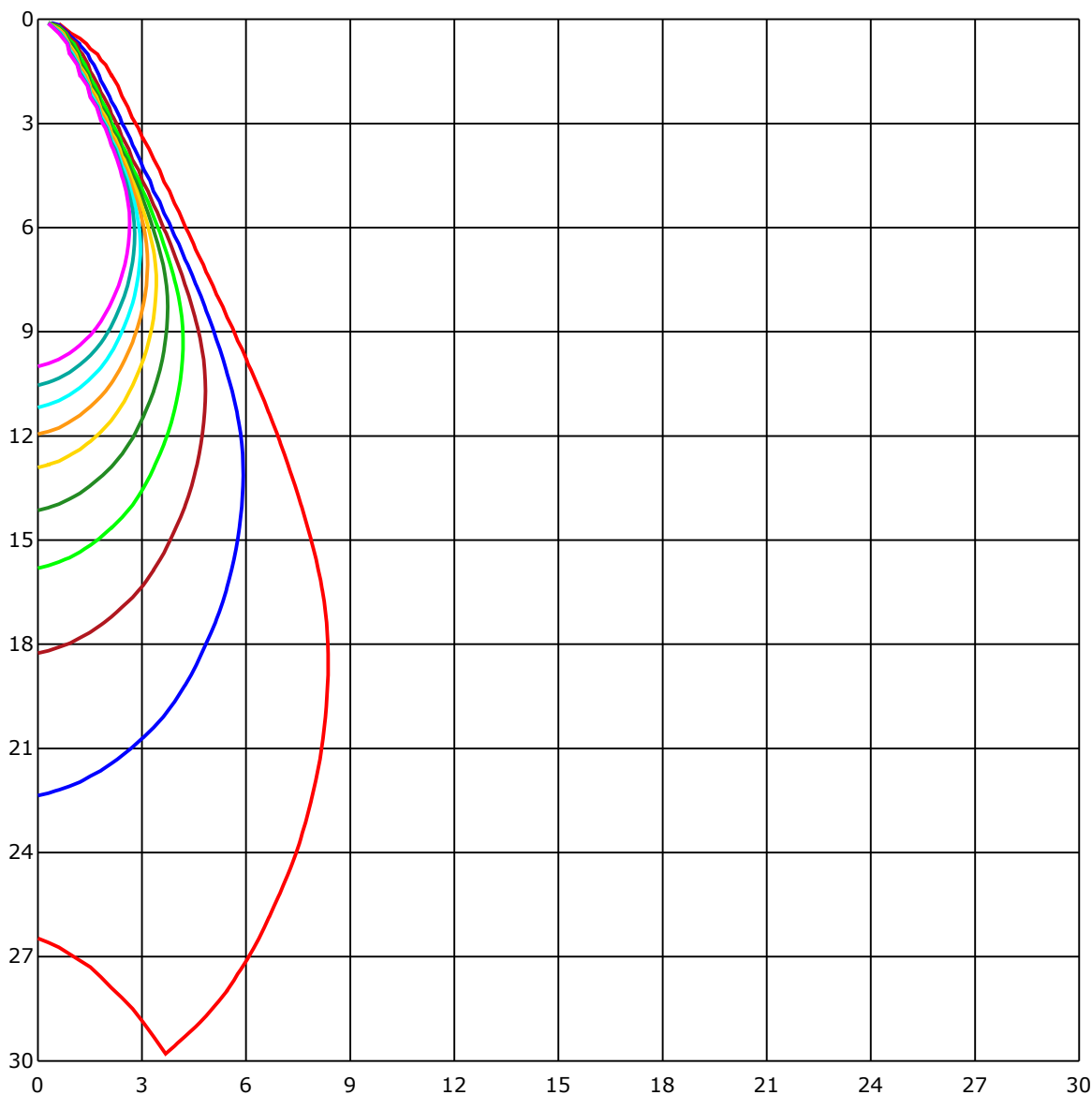
G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

17.964

16.167

14.371

12.575

10.778

8.982

7.185

5.389

3.593

1.796

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Test System: Huipu CPM-1600B Goniophotometer

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1795.51	1764.04	1791.29	1786.31	1795.51	1764.04	1791.29	1786.31	1795.51	
G1	1782.09	1740.97	1778.9	1773.69	1806.15	1782.27	1798.83	1795.6	1782.09	
G2	1762.83	1716.73	1760.09	1761.89	1807.54	1802.24	1803.46	1795.29	1762.83	
G3	1746.4	1687.01	1740.21	1743.03	1804.85	1811.49	1800.63	1788.01	1746.4	
G4	1718.48	1661.33	1718.88	1716.19	1798.02	1816.16	1799.06	1772.44	1718.48	
G5	1695.45	1624.93	1690.11	1696.57	1782.54	1817.87	1784.02	1759.06	1695.45	
G6	1664.61	1587.4	1663.44	1667.84	1764.13	1811.72	1775.35	1738.19	1664.61	
G7	1632.92	1550.23	1629.19	1642.39	1743.66	1801.8	1753.04	1725.3	1632.92	
G8	1598.31	1516.97	1591.67	1608.45	1727.82	1787.3	1731.5	1701.06	1598.31	
G9	1565.54	1482.63	1560.56	1570.07	1701.42	1770.28	1708.02	1681.27	1565.54	
G10	1528.42	1434.95	1525.27	1524.87	1667.53	1747.84	1682.57	1652.22	1528.42	
G11	1488.19	1388.58	1478.81	1478.68	1631.44	1725.44	1651.59	1610.16	1488.19	
G12	1440.48	1336.38	1437.51	1425.89	1590.0	1700.48	1617.12	1570.07	1440.48	
G13	1396.98	1286.05	1389.66	1373.54	1543.05	1676.19	1575.37	1532.5	1396.98	
G14	1345.4	1240.98	1339.56	1319.23	1495.02	1637.95	1534.39	1488.73	1345.4	
G15	1295.21	1187.92	1286.1	1269.35	1445.86	1597.28	1486.35	1448.2	1295.21	
G16	1246.91	1137.87	1239.73	1214.54	1389.62	1556.61	1433.7	1399.45	1246.91	
G17	1199.15	1085.71	1189.63	1165.75	1337.09	1508.21	1373.23	1351.23	1199.15	
G18	1148.33	1032.83	1137.29	1111.34	1271.55	1452.06	1314.47	1296.78	1148.33	
G19	1096.62	977.26	1084.23	1060.98	1213.6	1390.65	1254.36	1246.91	1096.62	
G20	1044.19	922.85	1033.32	1006.75	1160.63	1332.29	1198.47	1199.96	1044.19	
G21	993.82	869.38	982.64	959.75	1109.73	1272.05	1143.48	1149.09	993.82	
G22	939.28	810.71	929.58	905.12	1053.88	1218.0	1086.74	1097.29	939.28	
G23	885.1	752.0	878.23	857.08	1005.36	1161.21	1031.93	1048.14	885.1	
G24	831.72	688.21	825.3	805.46	952.03	1105.82	978.38	992.2	831.72	
G25	774.53	609.97	771.7	757.29	900.9	1052.45	927.7	941.57	774.53	
G26	712.99	528.8	700.82	694.58	852.42	1001.81	873.07	890.84	712.99	
G27	640.49	449.17	624.24	620.42	803.76	949.15	820.77	839.31	640.49	
G28	557.17	371.73	547.48	540.25	753.03	897.04	767.21	786.29	557.17	
G29	470.81	298.11	465.24	459.81	695.62	843.98	707.02	720.84	470.81	
G30	393.24	233.34	384.35	383.36	622.76	791.86	639.1	642.6	393.24	
G31	314.36	181.49	308.8	312.3	545.5	732.07	558.48	560.5	314.36	
G32	243.35	147.1	246.0	247.03	467.48	657.95	476.87	474.49	243.35	
G33	190.15	124.08	194.55	192.89	391.58	577.96	400.01	392.56	190.15	
G34	150.52	105.13	160.39	153.61	316.61	495.45	326.71	316.12	150.52	
G35	126.28	90.14	135.66	127.8	250.94	410.07	256.86	247.3	126.28	
G36	106.84	77.79	115.82	107.83	196.26	331.15	199.4	192.53	106.84	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	90.81	68.32	99.39	92.11	158.78	259.24	155.27	157.52	90.81	
G38	77.53	60.02	87.31	79.41	134.09	198.82	127.4	133.41	77.53	
G39	68.73	52.75	77.75	70.3	114.56	158.06	108.14	113.8	68.73	
G40	61.23	45.79	69.18	62.4	98.85	133.82	91.67	97.91	61.23	
G41	53.1	40.72	60.92	54.32	86.77	114.51	78.06	85.78	53.1	
G42	46.01	37.21	54.36	47.4	76.49	99.03	67.2	75.68	46.01	
G43	41.12	34.16	49.24	42.02	67.11	86.05	57.14	66.57	41.12	
G44	37.39	31.78	44.89	37.89	59.3	75.28	49.15	58.31	37.39	
G45	34.48	29.76	41.57	34.74	52.93	65.54	43.14	52.21	34.48	
G46	32.01	28.1	38.78	32.28	48.21	57.86	38.92	47.81	32.01	
G47	29.81	26.49	36.54	30.35	44.22	52.16	35.73	43.72	29.81	
G48	28.06	24.96	34.74	28.59	41.16	47.67	33.13	40.54	28.06	
G49	26.31	23.7	32.86	27.07	39.05	43.54	31.11	38.11	26.31	
G50	24.78	22.31	31.29	25.32	36.72	40.89	29.58	35.87	24.78	
G51	23.43	21.1	29.54	23.93	34.7	38.61	27.74	33.94	23.43	
G52	22.09	20.02	28.06	22.58	32.81	36.36	26.22	32.05	22.09	
G53	20.83	18.58	26.71	21.32	31.15	34.61	24.64	30.21	20.83	
G54	19.53	17.42	25.32	20.07	29.4	32.64	23.3	28.64	19.53	
G55	18.36	16.34	23.88	18.76	27.97	30.93	21.73	27.16	18.36	
G56	17.15	15.26	22.49	17.6	26.13	29.04	20.42	25.5	17.15	
G57	16.25	14.05	21.01	16.43	24.96	27.52	19.17	23.97	16.25	
G58	15.04	13.02	19.71	15.35	23.16	26.17	18.0	22.53	15.04	
G59	13.92	11.67	18.32	14.19	21.77	24.42	16.65	21.19	13.92	
G60	12.57	10.5	17.01	12.93	20.56	23.12	15.44	20.02	12.57	
G61	11.54	9.25	15.71	11.67	19.21	21.86	14.19	18.58	11.54	
G62	10.15	7.32	14.19	10.01	17.91	20.25	12.84	17.01	10.15	
G63	8.48	6.06	12.39	8.62	16.43	18.85	11.36	15.58	8.48	
G64	6.73	5.34	10.73	7.27	14.95	17.33	9.92	14.1	6.73	
G65	5.79	4.4	9.61	6.06	13.2	15.94	8.21	12.12	5.79	
G66	5.07	3.86	8.75	5.25	11.13	14.45	6.46	10.37	5.07	
G67	4.44	3.1	7.81	4.49	9.92	12.3	5.39	9.52	4.44	
G68	3.64	2.51	7.05	3.91	8.84	10.32	4.67	8.57	3.64	
G69	3.14	1.93	6.19	3.14	8.13	9.16	4.04	7.63	3.14	
G70	2.33	1.53	5.66	2.56	7.18	8.35	3.5	6.82	2.33	
G71	1.98	1.12	4.98	2.02	6.51	7.45	2.65	6.15	1.98	
G72	1.53	0.85	4.44	1.57	5.88	6.69	2.11	5.39	1.53	
G73	1.21	0.58	4.04	1.17	5.12	5.97	1.62	4.71	1.21	

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