

Report No.:

Test Time: 2024/7/22 14:18:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-45°-15W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

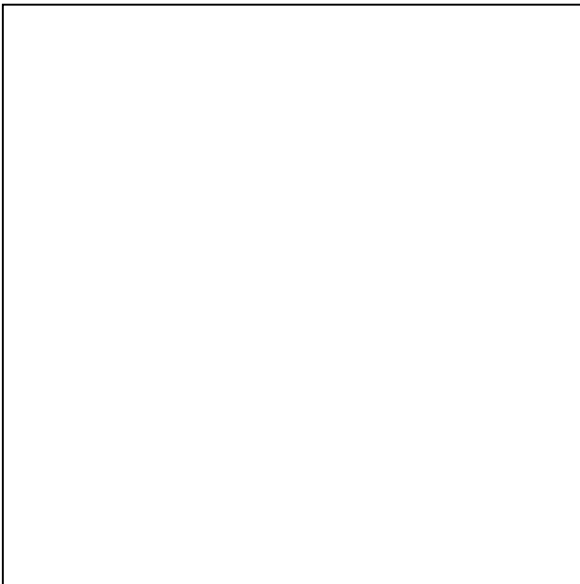
Voltage(V): 219.80 V
Current(A): 0.0710 A
Power(W): 14.95 W
Power Factor: 0.9500
Lamp Luminous Flux: 1404.33

Photometric Results

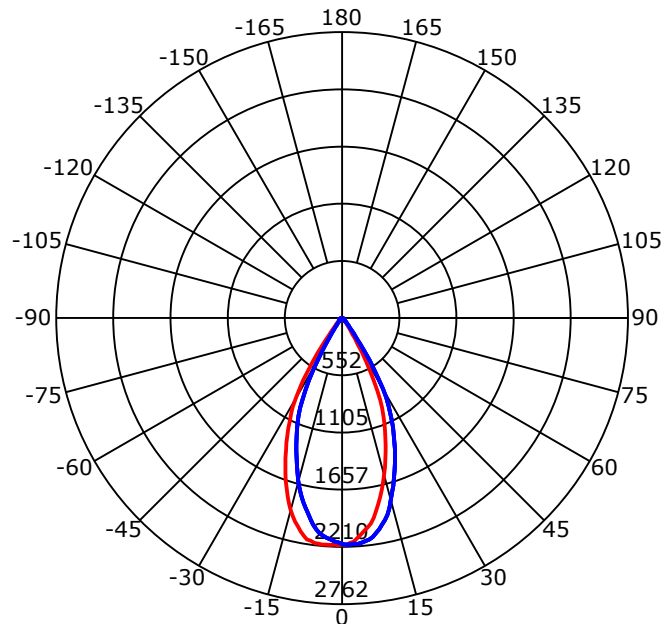
CIE Class: Direct
Luminaire Luminous Flux: 1404.33 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 93.94 lm/W
Beam Angle(50%) C0-180,C90-270: 49.1,49.1
Field Angle(10%) C0-180,C90-270: 69.9,69.6
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 2209.89 cd
Max.Intensity Angle: C=135 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2188.88 cd
Effective Luminous Flux: 1277.30 lm
ERP(ϕ use)(120deg): 1388.45 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 49.1 deg,49.1 deg

C0-180 — C90-270 —

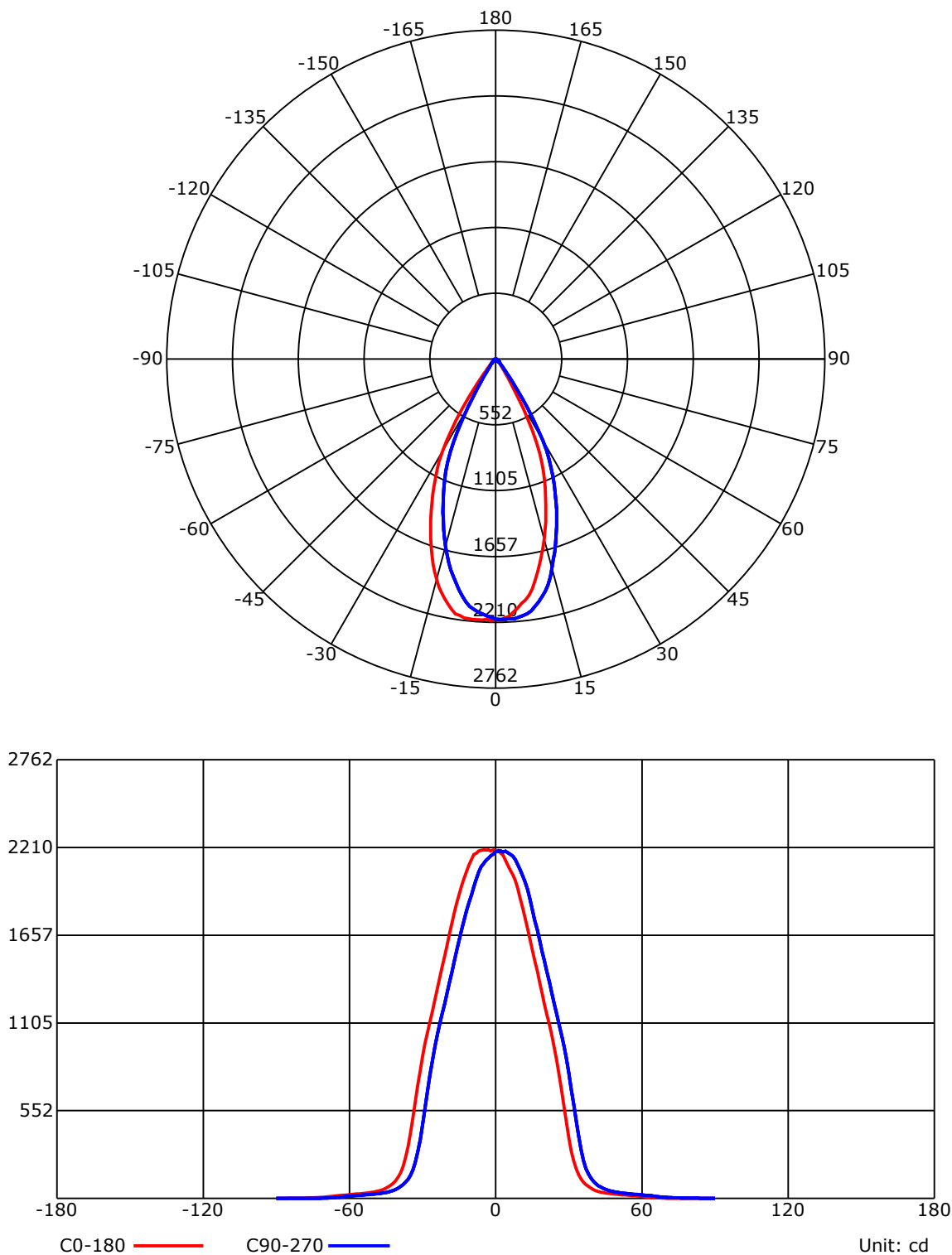
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/22 14:18:24

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



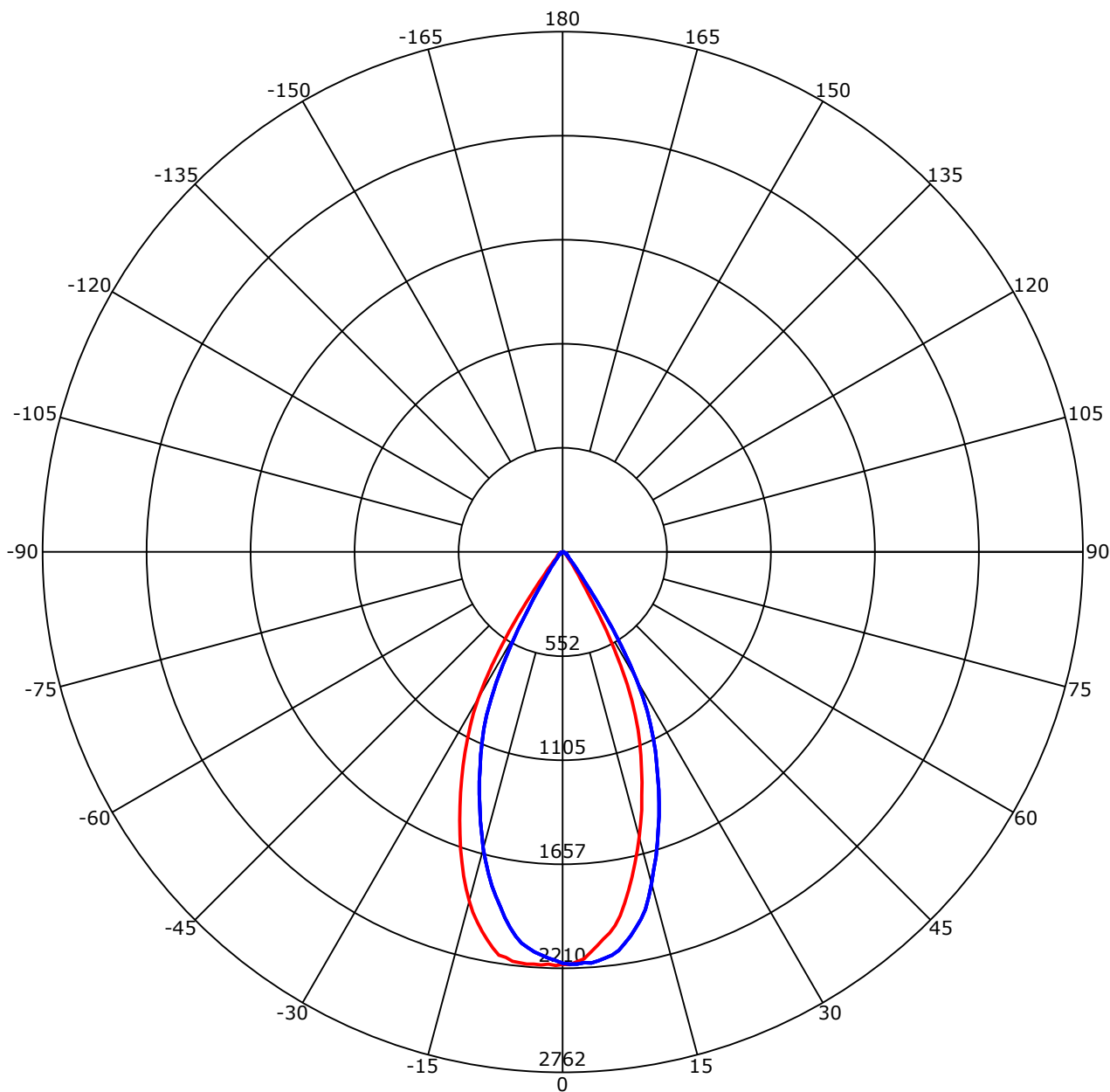
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/7/22 14:18:24

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

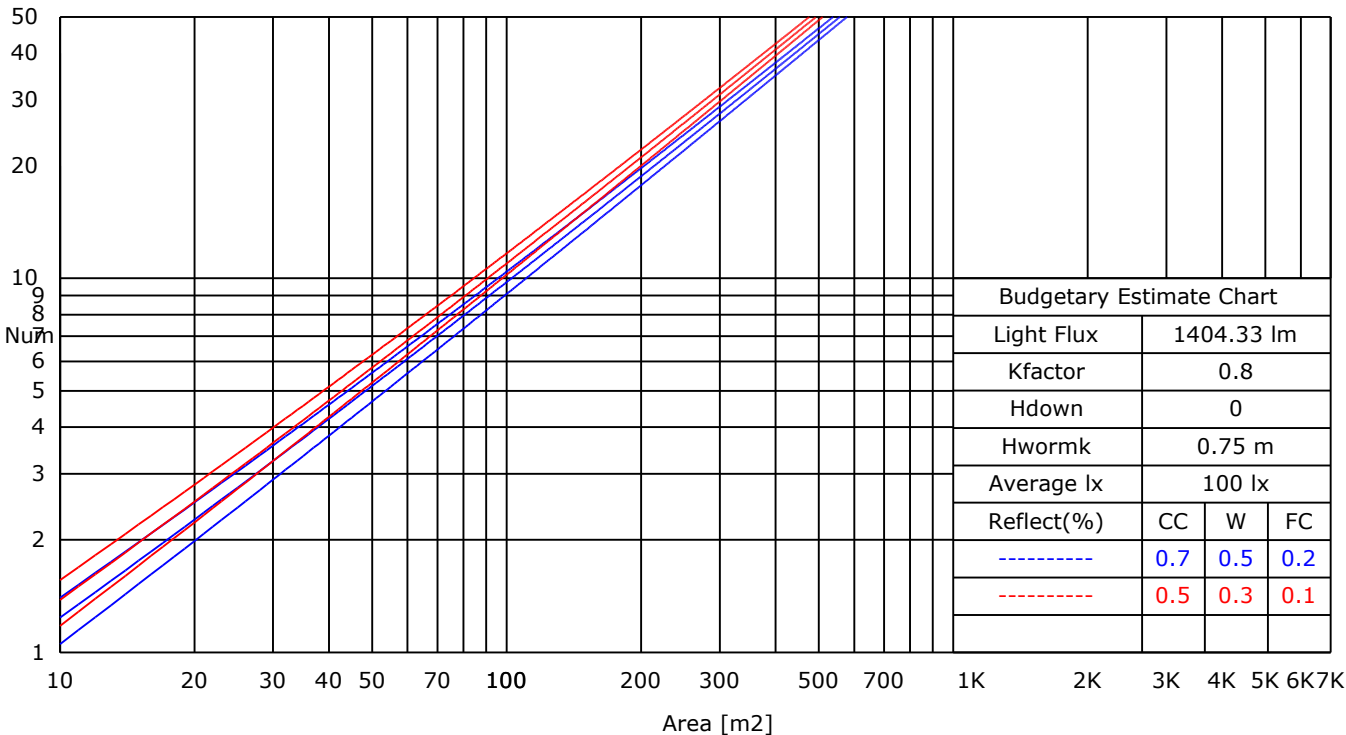
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UTILIZATION FACTORS TABLE

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	1.03	1.02	1.00	1.02	1.00	0.98	0.99	0.96	0.94	0.94	0.91	0.89	0.88	0.85	0.83	0.78
2	0.99	0.97	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.85	0.85	0.82	0.80	0.75
3	0.95	0.94	0.93	0.94	0.92	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
4	0.92	0.91	0.89	0.91	0.89	0.88	0.88	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
5	0.89	0.88	0.87	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.77	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	0.77	0.74	0.77	0.73	0.70	0.66
7	0.84	0.83	0.82	0.83	0.81	0.80	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.68	0.64
8	0.82	0.80	0.80	0.81	0.79	0.78	0.78	0.76	0.74	0.76	0.72	0.70	0.73	0.69	0.66	0.63
9	0.79	0.78	0.77	0.78	0.77	0.76	0.76	0.74	0.72	0.74	0.71	0.68	0.71	0.67	0.64	0.61
10	0.77	0.76	0.76	0.77	0.75	0.74	0.74	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



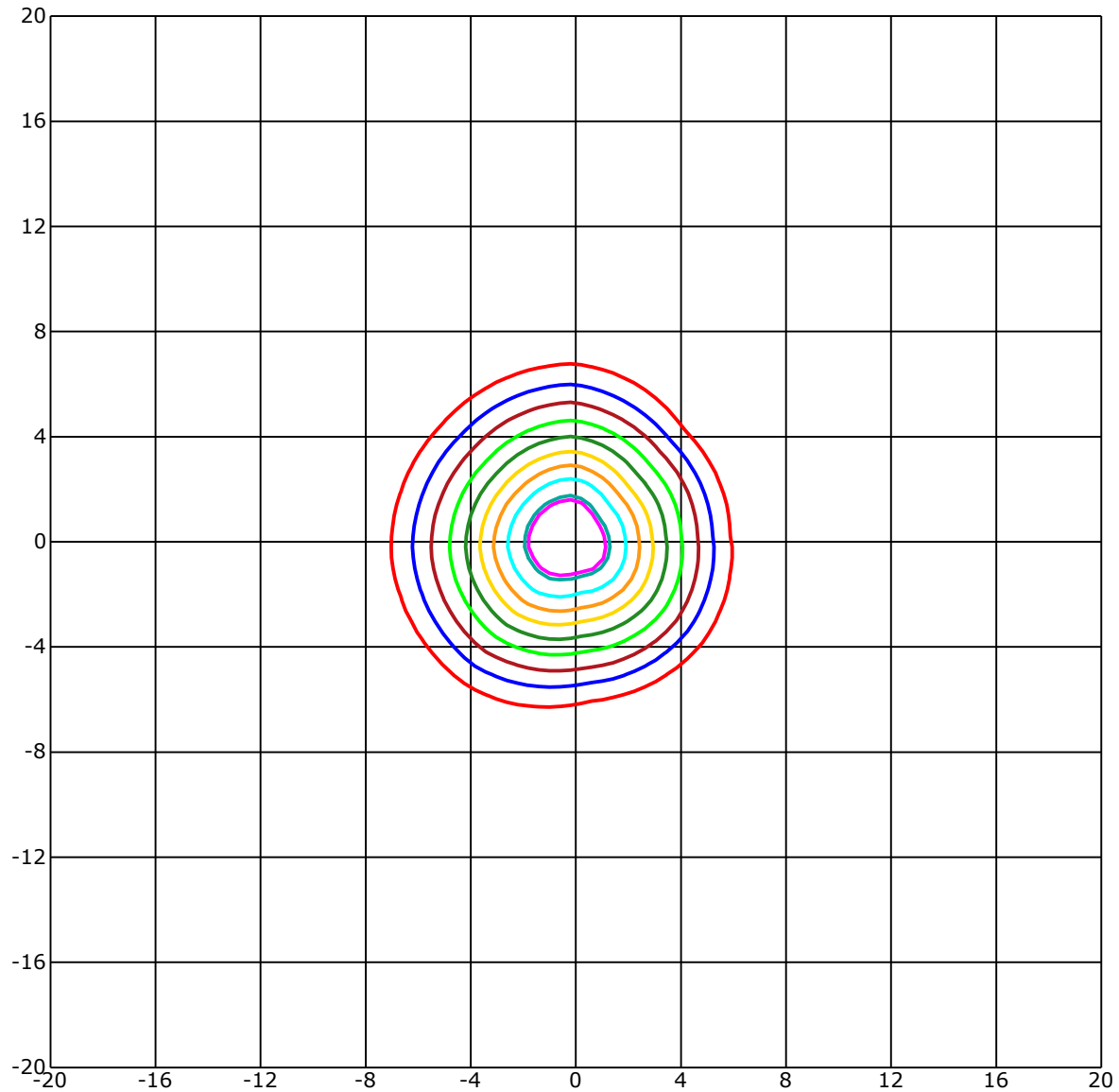
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

20.248(92%Emax)	11.004(50%Emax)
19.807(90%Emax)	8.803(40%Emax)
17.607(80%Emax)	6.602(30%Emax)
15.406(70%Emax)	4.402(20%Emax)
13.205(60%Emax)	2.201(10%Emax)

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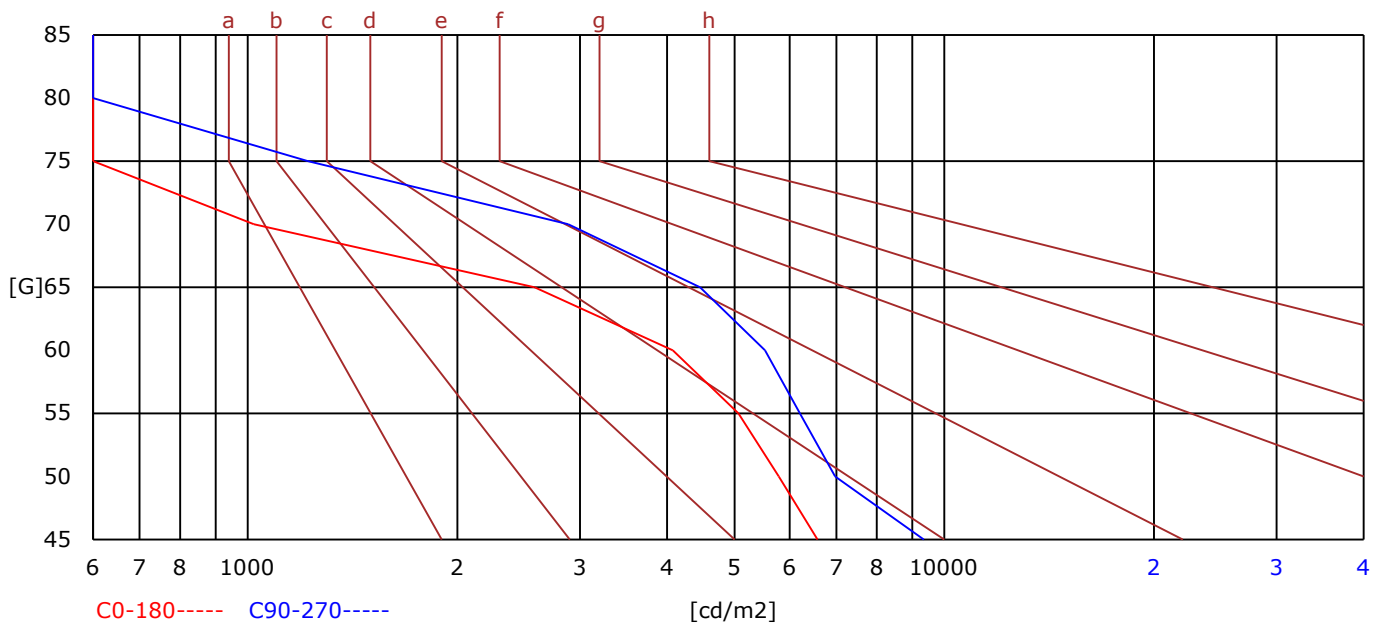
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	6576	5785	5063	4079	2583	1021	64	0	0
C90	9350	6975	6203	5531	4459	2884	1221	128	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



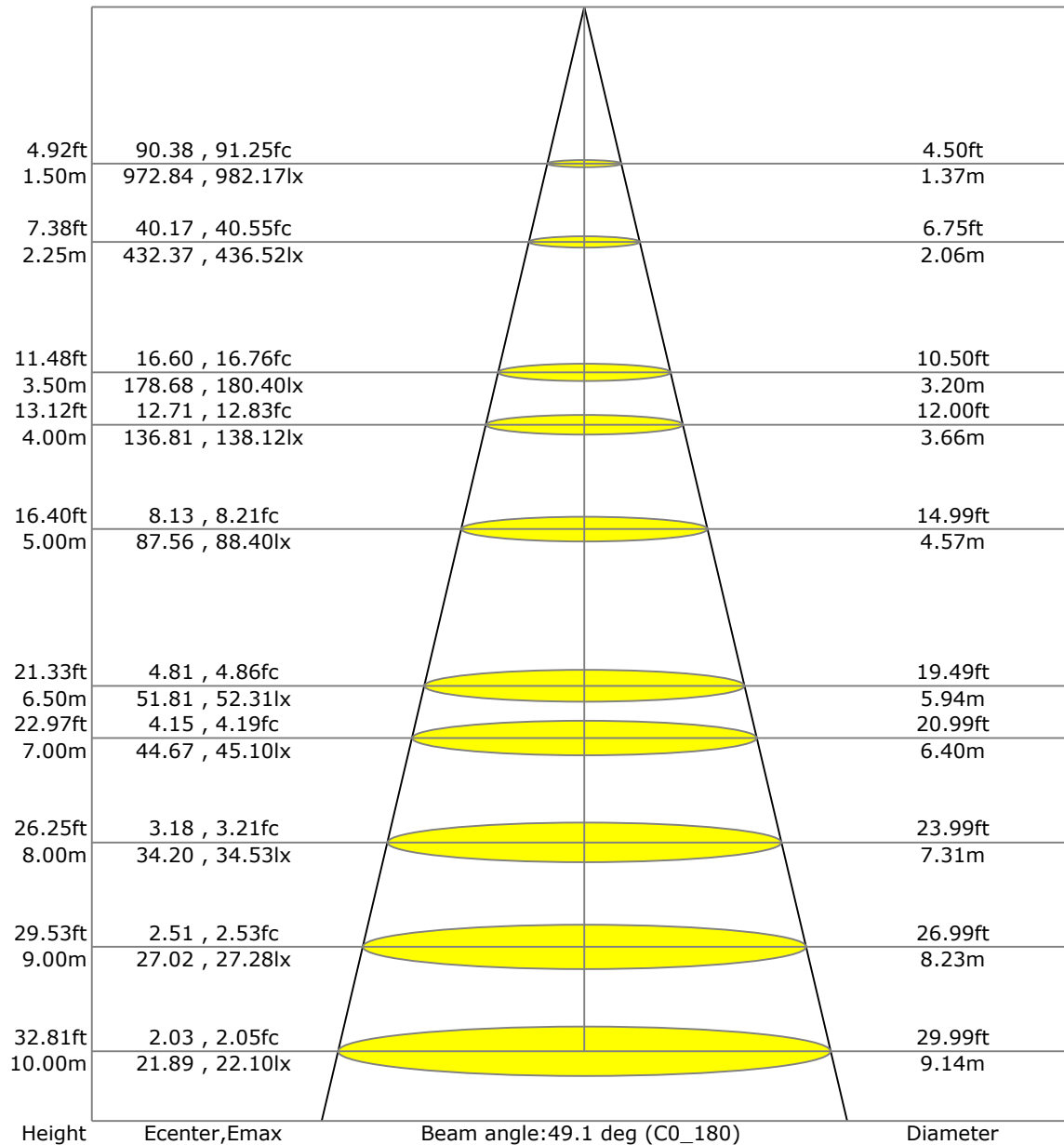
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/7/22 14:18:24

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	6.81	6.86	7.01	7.04	7.29	7.29	7.34	7.49	7.53	7.77
3H	6.81	6.86	7.02	7.05	7.30	7.28	7.33	7.48	7.52	7.77
4H	6.80	6.85	7.01	7.04	7.29	7.26	7.31	7.47	7.51	7.76
6H	6.78	6.83	7.00	7.03	7.28	7.24	7.30	7.46	7.50	7.75
8H	6.77	6.82	6.99	7.03	7.28	7.24	7.29	7.45	7.49	7.74
12H	6.76	6.81	6.98	7.02	7.27	7.23	7.28	7.45	7.48	7.74
4H 2H	6.92	6.97	7.13	7.16	7.41	7.75	7.80	7.96	7.99	8.24
3H	6.92	6.97	7.14	7.17	7.43	7.73	7.78	7.95	7.98	8.24
4H	6.90	6.95	7.13	7.16	7.42	7.71	7.76	7.93	7.97	8.23
6H	6.88	6.93	7.11	7.15	7.41	7.68	7.73	7.92	7.95	8.22
8H	6.87	6.91	7.11	7.14	7.41	7.67	7.72	7.91	7.94	8.21
12H	6.85	6.90	7.10	7.13	7.40	7.66	7.70	7.91	7.94	8.20
8H 4H	6.89	6.94	7.11	7.15	7.40	7.75	7.81	7.97	8.01	8.26
6H	6.84	6.88	7.09	7.12	7.39	7.69	7.73	7.94	7.97	8.24
8H	6.82	6.87	7.08	7.11	7.39	7.67	7.71	7.93	7.96	8.24
12H	6.81	6.85	7.08	7.10	7.38	7.65	7.69	7.92	7.95	8.23
12H 4H	6.85	6.90	7.10	7.13	7.40	7.72	7.77	7.97	8.00	8.27
6H	6.82	6.87	7.08	7.11	7.39	7.69	7.74	7.95	7.98	8.26

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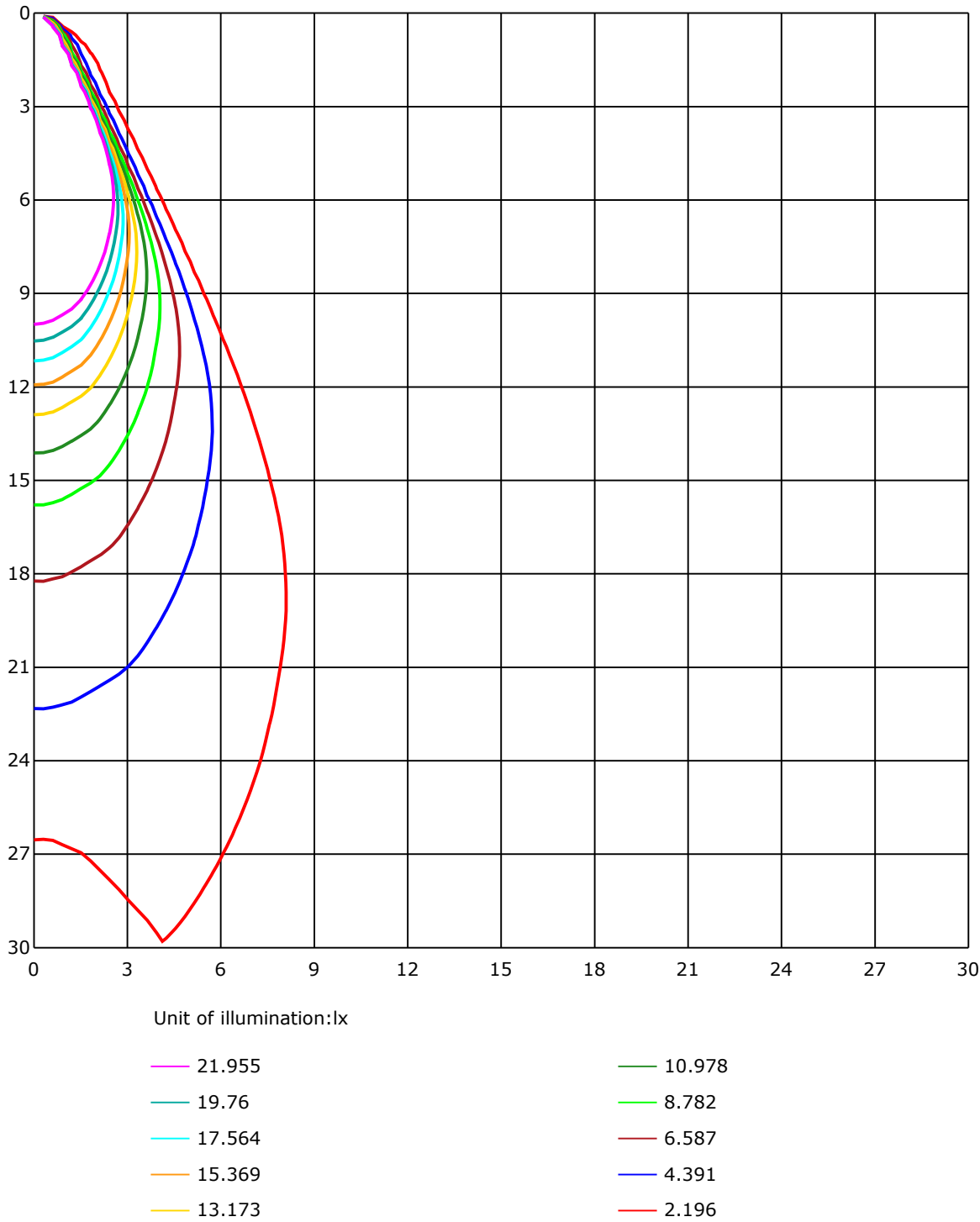
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2188.88	2178.06	2182.96	2192.47	2188.88	2178.06	2182.96	2192.47	2188.88	
G1	2191.04	2171.02	2187.13	2200.28	2194.63	2172.41	2167.92	2193.42	2191.04	
G2	2175.01	2158.81	2188.43	2197.81	2188.52	2170.48	2157.68	2181.12	2175.01	
G3	2162.4	2142.82	2182.42	2209.89	2194.27	2165.99	2143.14	2169.04	2162.4	
G4	2129.58	2123.93	2186.91	2209.35	2192.97	2168.1	2129.45	2149.38	2129.58	
G5	2098.11	2098.11	2177.43	2207.69	2195.3	2159.43	2110.01	2131.65	2098.11	
G6	2064.67	2065.57	2166.93	2194.09	2192.16	2151.35	2088.24	2103.14	2064.67	
G7	2037.87	2030.38	2155.39	2179.14	2188.97	2142.11	2054.3	2071.63	2037.87	
G8	2002.09	1991.9	2134.83	2156.29	2173.3	2126.8	2011.93	2028.27	2002.09	
G9	1954.02	1946.25	2103.19	2138.43	2166.84	2096.9	1964.25	1995.27	1954.02	
G10	1892.88	1886.91	2071.0	2100.45	2134.79	2073.65	1910.38	1942.53	1892.88	
G11	1829.54	1828.68	2031.23	2066.96	2098.2	2039.98	1861.45	1893.28	1829.54	
G12	1765.48	1770.78	1993.48	2013.99	2058.21	1997.11	1811.67	1830.75	1765.48	
G13	1701.51	1714.13	1948.27	1960.3	2016.28	1957.07	1752.91	1775.09	1701.51	
G14	1634.8	1632.6	1887.85	1897.41	1971.88	1909.13	1693.3	1717.81	1634.8	
G15	1566.93	1558.81	1821.32	1836.0	1917.43	1855.84	1630.0	1652.27	1566.93	
G16	1500.04	1489.59	1752.01	1767.05	1859.88	1801.75	1561.1	1581.39	1500.04	
G17	1433.11	1424.58	1692.76	1701.15	1798.74	1740.12	1493.54	1514.77	1433.11	
G18	1359.4	1365.73	1624.93	1632.16	1731.54	1679.96	1422.79	1449.59	1359.4	
G19	1292.88	1299.84	1556.02	1568.01	1666.72	1615.64	1361.16	1382.25	1292.88	
G20	1221.68	1237.89	1495.69	1489.41	1595.21	1550.73	1295.35	1317.3	1221.68	
G21	1157.35	1168.94	1428.04	1422.03	1526.44	1481.01	1225.81	1255.12	1157.35	
G22	1092.26	1107.66	1361.6	1346.07	1456.68	1418.88	1161.35	1187.92	1092.26	
G23	1025.33	1042.48	1291.8	1281.34	1387.73	1348.81	1097.47	1121.98	1025.33	
G24	949.02	974.79	1223.88	1213.24	1319.09	1285.11	1029.91	1051.91	949.02	
G25	870.6	894.75	1163.15	1147.7	1250.73	1213.69	955.57	979.45	870.6	
G26	780.1	806.45	1096.84	1076.55	1181.95	1147.52	870.06	898.25	780.1	
G27	677.26	708.68	1025.29	1009.89	1111.84	1078.17	776.15	806.58	677.26	
G28	576.39	606.69	957.41	937.08	1043.74	1005.81	675.1	706.97	576.39	
G29	478.12	502.36	878.72	862.47	978.96	932.23	571.99	603.55	478.12	
G30	381.83	403.25	789.53	776.78	898.56	847.43	469.06	499.18	381.83	
G31	296.9	317.28	687.4	680.76	806.58	750.43	370.93	406.57	296.9	
G32	231.81	245.82	587.12	585.37	710.03	646.06	291.61	322.94	231.81	
G33	185.13	189.03	486.79	489.53	609.11	539.62	227.46	253.76	185.13	
G34	149.89	150.88	392.34	396.24	507.71	440.33	179.25	204.74	149.89	
G35	122.73	123.36	307.9	315.4	412.22	348.84	145.85	167.22	122.73	
G36	102.21	103.02	239.94	246.04	327.25	270.1	120.66	139.88	102.21	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	87.0	86.55	189.84	192.53	255.78	211.43	101.63	118.91	87.0	
G38	75.01	74.83	154.65	154.15	201.02	170.04	86.64	101.9	75.01	
G39	65.27	65.58	128.79	126.72	162.68	141.67	75.19	89.33	65.27	
G40	56.29	58.45	108.68	105.67	134.98	118.78	66.21	79.32	56.29	
G41	49.65	52.07	93.19	89.11	113.62	100.82	57.86	70.75	49.65	
G42	43.77	46.91	81.34	76.49	96.87	87.72	50.91	63.38	43.77	
G43	39.68	43.09	71.46	67.11	83.99	77.3	44.93	57.91	39.68	
G44	36.36	40.09	63.21	59.66	73.75	69.0	40.54	53.24	36.36	
G45	34.03	37.66	56.7	53.55	65.67	61.86	37.3	49.87	34.03	
G46	32.1	35.55	51.4	48.53	57.82	56.52	34.88	46.24	32.1	
G47	30.3	34.03	46.69	44.35	52.39	51.62	32.77	43.72	30.3	
G48	28.55	32.77	43.54	41.07	47.81	48.17	30.93	41.79	28.55	
G49	27.11	31.33	40.63	38.52	44.04	44.93	29.18	39.77	27.11	
G50	25.59	30.12	38.47	36.32	40.89	42.74	27.61	37.75	25.59	
G51	24.29	28.64	36.32	34.61	38.56	40.49	25.99	36.23	24.29	
G52	22.89	27.52	34.39	33.17	36.18	38.92	24.64	34.7	22.89	
G53	21.91	26.13	32.55	31.87	34.52	37.17	23.25	33.08	21.91	
G54	20.34	24.91	30.79	30.21	32.59	35.64	22.0	31.38	20.34	
G55	19.12	23.52	29.27	28.82	31.02	34.48	20.65	29.94	19.12	
G56	17.82	22.31	27.65	27.65	29.31	32.99	19.53	28.42	17.82	
G57	16.61	20.69	26.17	26.31	28.1	31.42	18.27	26.71	16.61	
G58	15.26	19.44	24.96	25.05	26.62	29.9	17.1	25.14	15.26	
G59	13.96	17.82	23.39	23.75	25.27	28.42	15.89	23.66	13.96	
G60	12.48	16.52	22.09	22.4	23.93	27.07	14.59	21.86	12.48	
G61	10.46	14.99	20.6	21.1	22.89	25.63	13.38	20.29	10.46	
G62	8.13	13.56	19.39	19.62	21.32	24.11	11.76	18.54	8.13	
G63	6.64	12.08	18.05	18.23	19.89	22.71	9.61	16.92	6.64	
G64	5.88	10.68	16.61	16.7	18.54	21.19	7.5	15.26	5.88	
G65	4.94	8.84	14.23	15.26	17.19	19.84	6.46	13.78	4.94	
G66	4.04	7.41	12.03	14.01	15.71	18.14	5.57	11.85	4.04	
G67	3.14	5.75	10.37	12.57	13.6	16.56	4.4	10.01	3.14	
G68	2.42	4.49	9.2	11.04	11.49	14.99	3.68	8.39	2.42	
G69	1.8	3.55	7.95	9.61	10.01	13.42	2.83	7.32	1.8	
G70	0.99	2.83	7.14	7.99	9.02	12.03	2.2	6.37	0.99	
G71	0.67	2.15	6.19	6.37	7.9	10.15	1.48	5.57	0.67	
G72	0.18	1.53	5.25	4.98	6.91	8.53	0.76	4.49	0.18	
G73	0.0	1.26	4.62	4.17	6.02	7.5	0.27	3.82	0.0	

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