

Report No.:

Test Time: 2024/5/23 15:20:32

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT075H74-45°-10.6W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 71 mm

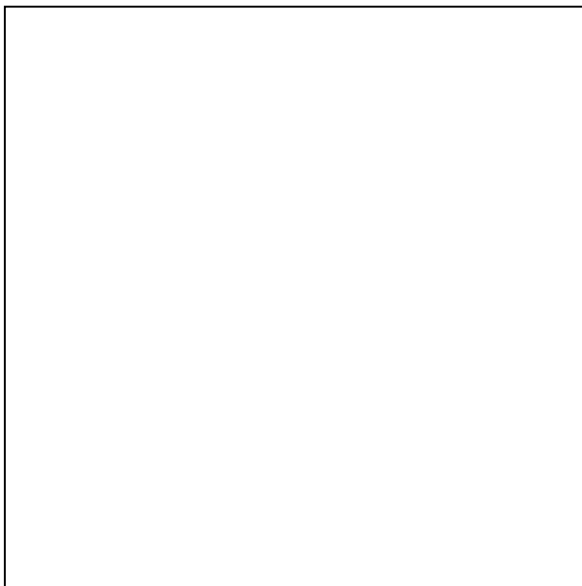
Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.64 W
Power Factor: 0.9190
Lamp Luminous Flux: 1151.98

Photometric Results

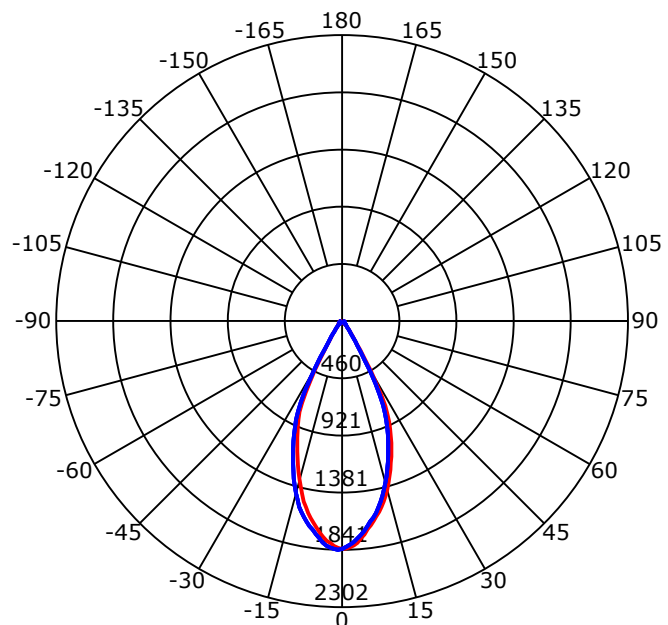
CIE Class: Direct
Luminaire Luminous Flux: 1151.976 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 108.27 lm/W
Beam Angle(50%) C0-180,C90-270: 47.4,47.4
Field Angle(10%) C0-180,C90-270: 66.9,67.1
S/MH C0-180,C90-270: 0.728,0.728

Max. Intensity: 1841.43 cd
Max.Intensity Angle: C=270 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1832.54 cd
Effective Luminous Flux: 1031.56 lm
ERP(ϕ use)(120deg): 1126.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 47.4 deg,47.4 deg

C0-180 — C90-270

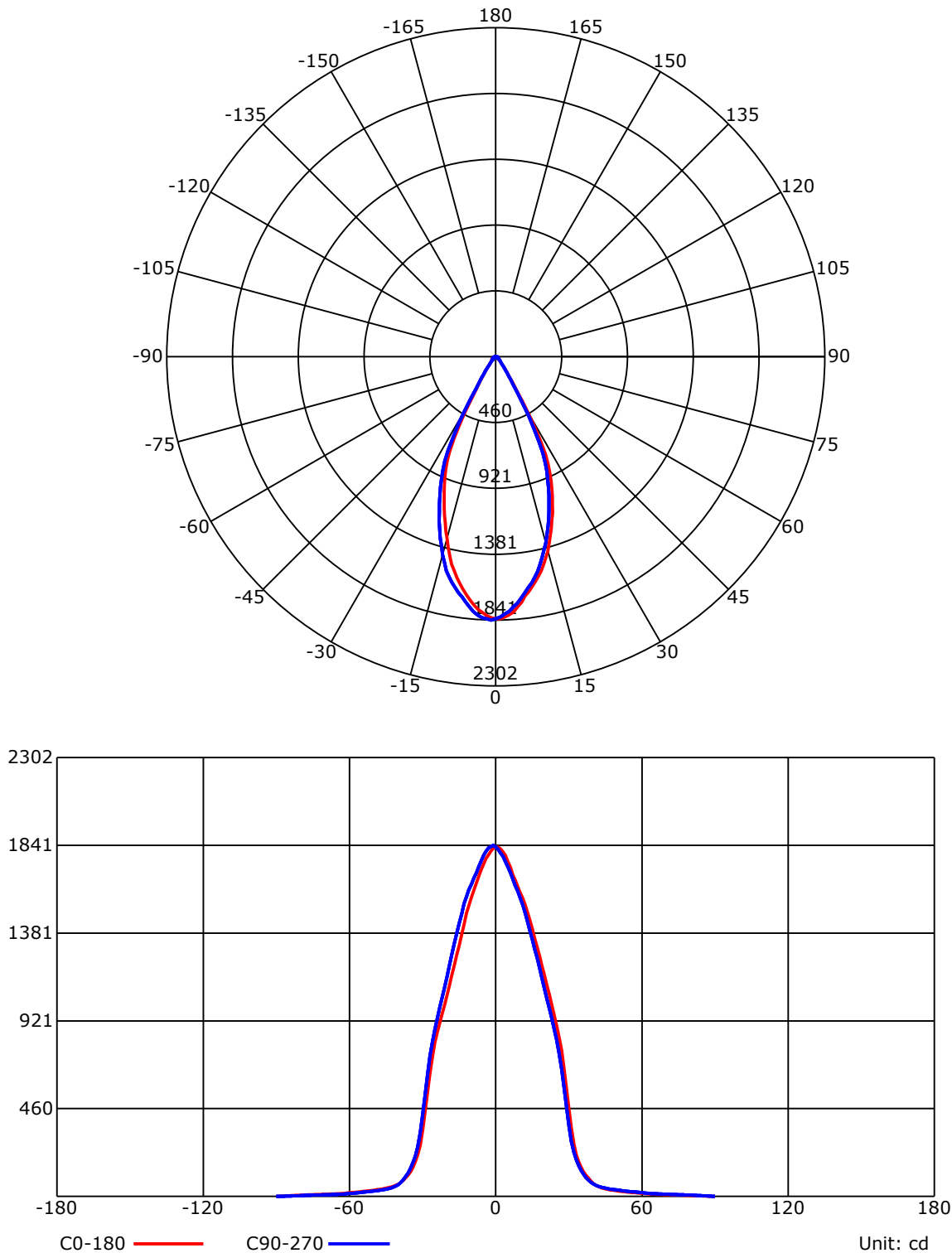
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 15:20:32

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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Humidity: 60

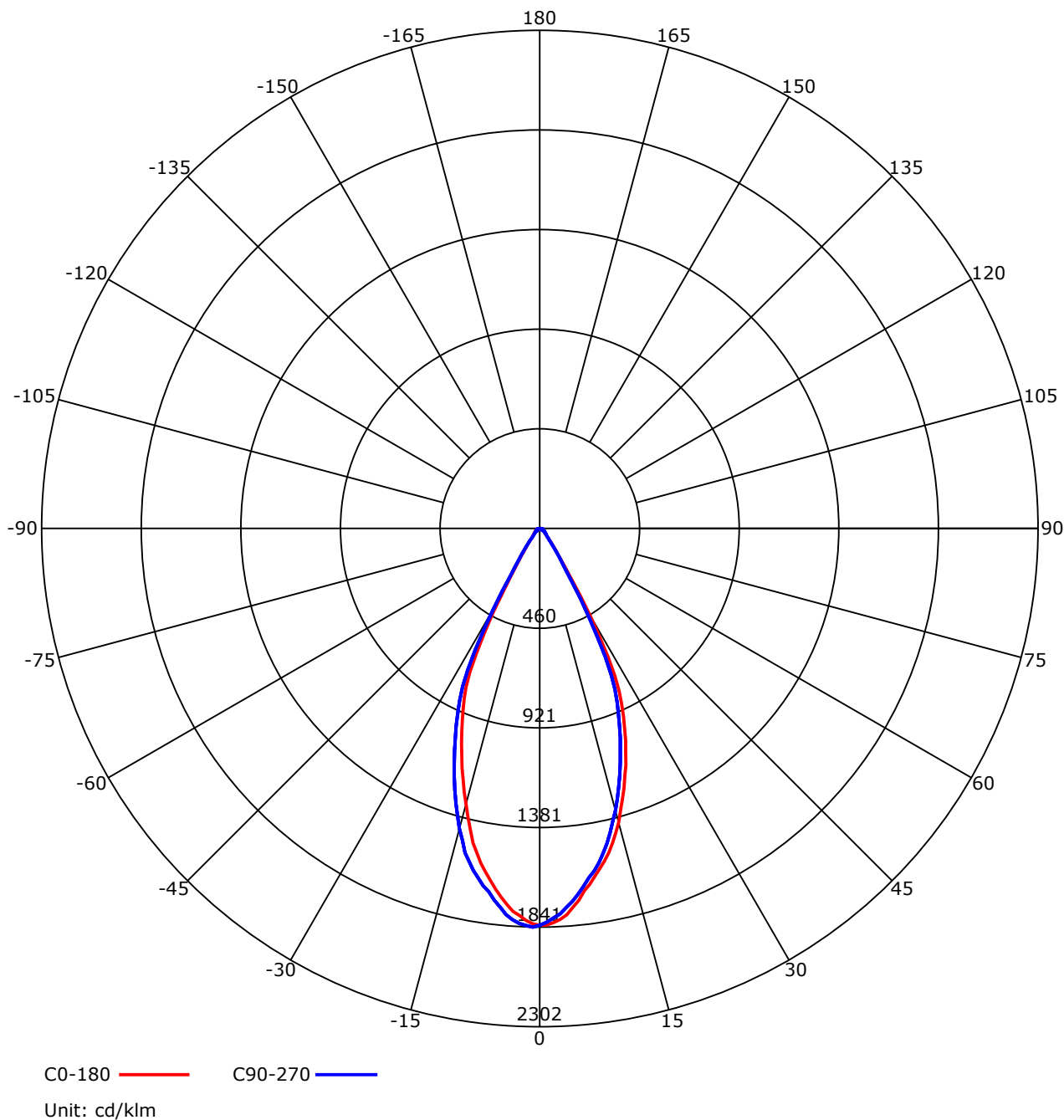
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Luminous Intensity Distribution Curve



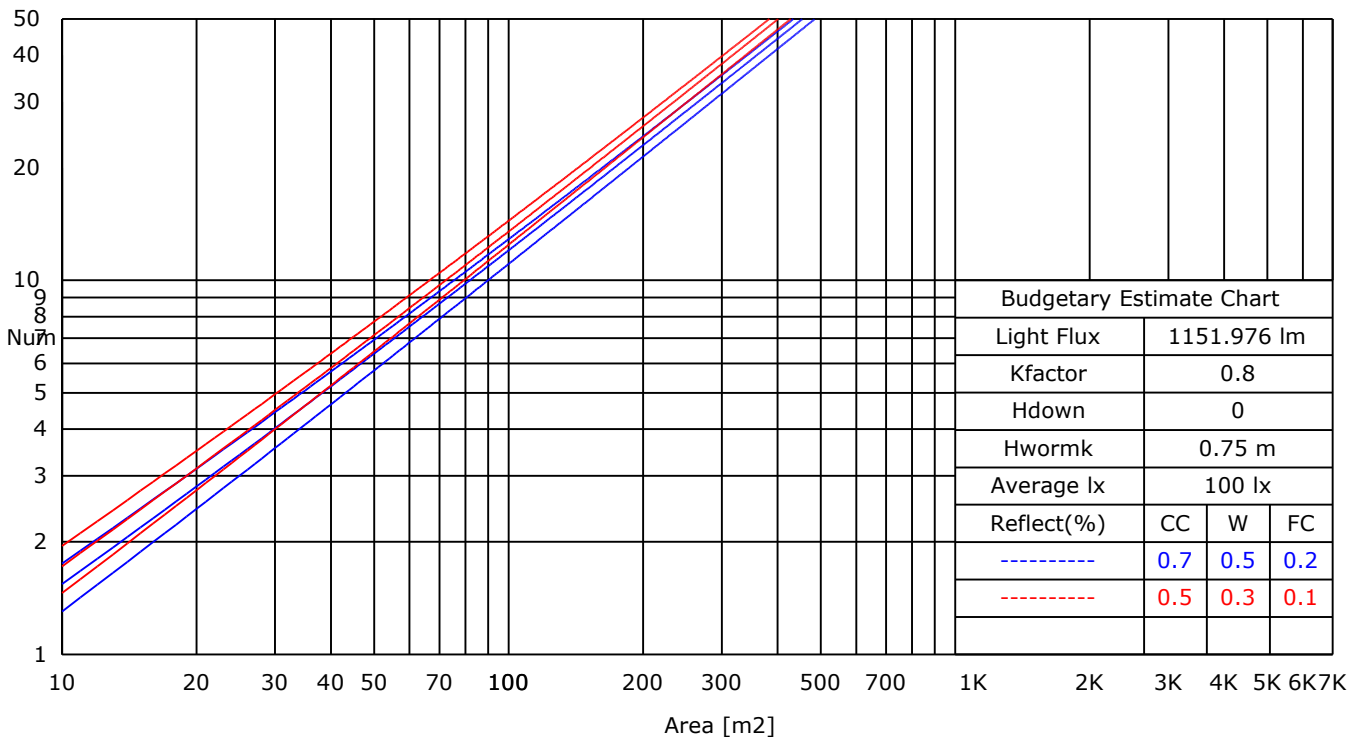
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UTILIZATION FACTORS TABLE

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	1.04	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	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	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.87	0.84	0.81	0.83	0.79	0.76	0.72
4	0.91	0.90	0.88	0.90	0.88	0.87	0.88	0.85	0.83	0.84	0.81	0.78	0.80	0.77	0.73	0.69
5	0.88	0.86	0.85	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.78	0.75	0.78	0.74	0.71	0.67
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	0.83	0.81	0.80	0.82	0.80	0.78	0.79	0.77	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.63
8	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.69	0.72	0.68	0.65	0.61
9	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.72	0.71	0.73	0.69	0.67	0.70	0.66	0.63	0.60
10	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.70	0.69	0.71	0.68	0.65	0.69	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



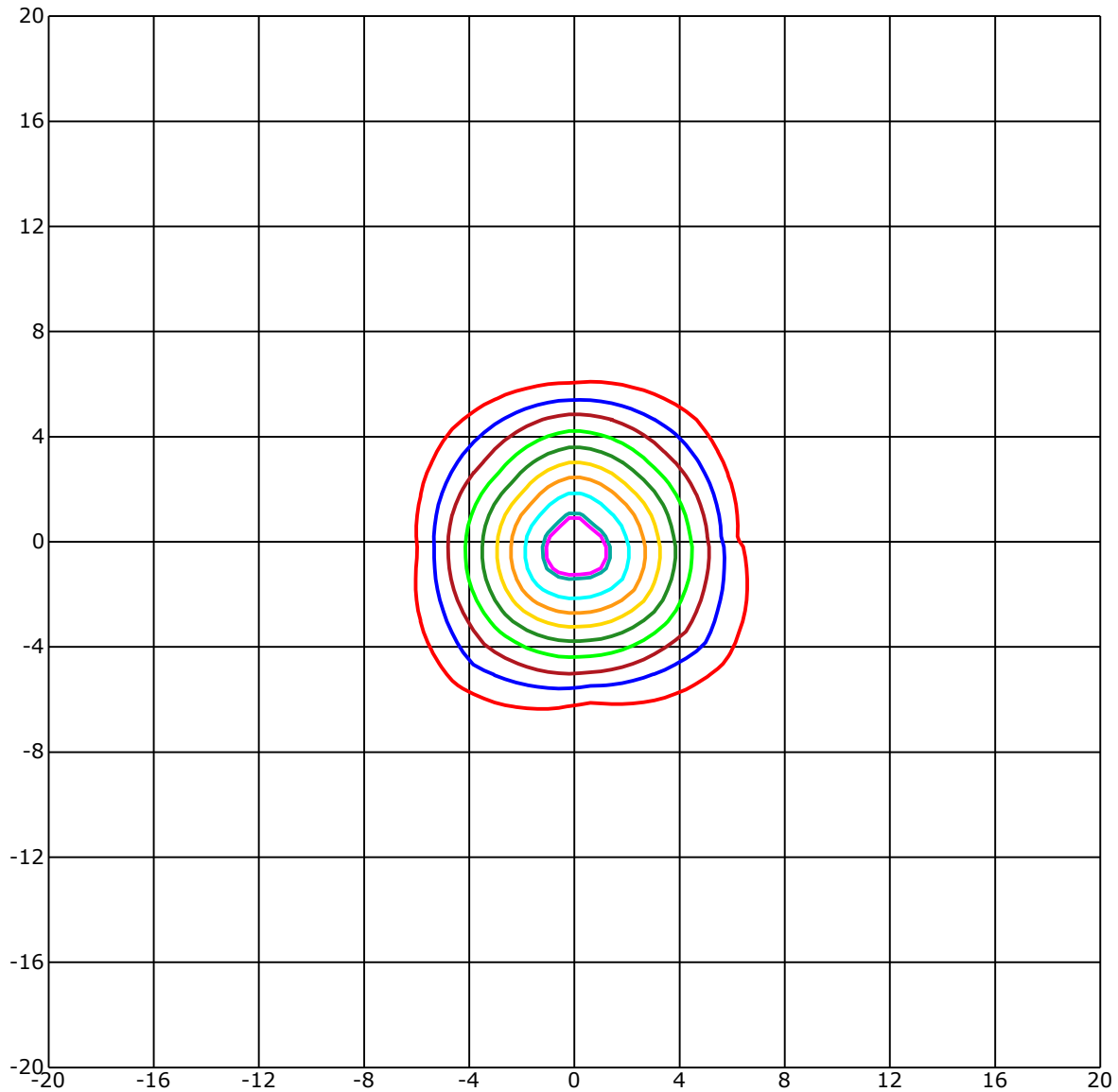
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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ISOLX DIAGRAM



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

16.933(92%Emax)	9.203(50%Emax)
16.565(90%Emax)	7.362(40%Emax)
14.725(80%Emax)	5.522(30%Emax)
12.884(70%Emax)	3.681(20%Emax)
11.044(60%Emax)	1.841(10%Emax)

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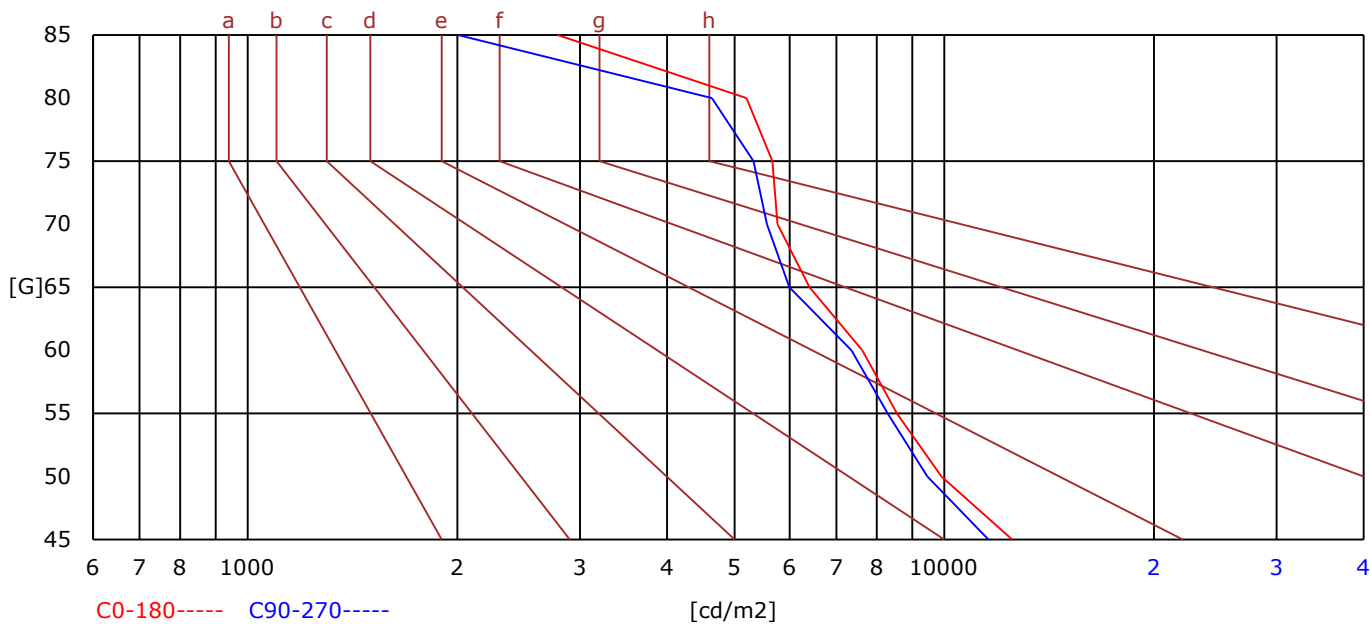
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12521	9908	8547	7631	6409	5762	5664	5199	2785
C90	11574	9454	8293	7359	5995	5563	5326	4640	2005
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



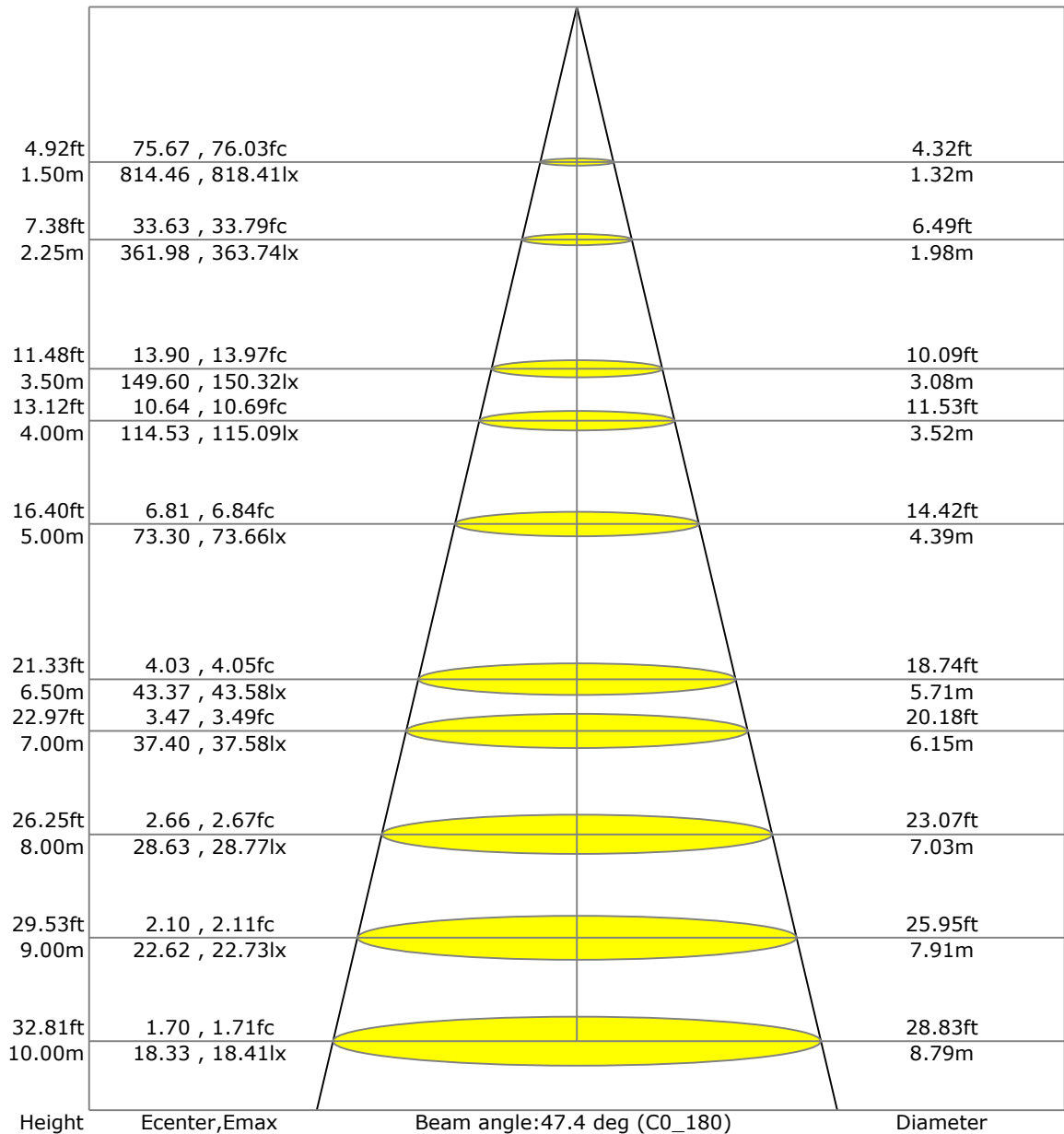
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LX-DISTANCE DIAGRAM



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Humidity: 60
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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	12.72	12.77	12.92	12.96	13.20	12.80	12.85	13.00	13.04	13.28
3H	12.73	12.78	12.94	12.97	13.22	12.81	12.86	13.01	13.05	13.30
4H	12.72	12.78	12.93	12.97	13.22	12.80	12.85	13.01	13.04	13.29
6H	12.71	12.76	12.93	12.96	13.21	12.78	12.83	13.00	13.03	13.29
8H	12.70	12.75	12.92	12.96	13.21	12.77	12.83	12.99	13.03	13.28
12H	12.69	12.74	12.91	12.95	13.20	12.76	12.82	12.99	13.02	13.28
4H 2H	13.15	13.20	13.36	13.40	13.65	13.38	13.43	13.59	13.62	13.87
3H	13.23	13.29	13.46	13.49	13.75	13.45	13.50	13.67	13.71	13.97
4H	13.25	13.30	13.48	13.51	13.77	13.46	13.51	13.69	13.73	13.99
6H	13.25	13.30	13.49	13.52	13.78	13.46	13.51	13.69	13.73	13.99
8H	13.24	13.29	13.48	13.51	13.78	13.45	13.49	13.69	13.72	13.99
12H	13.23	13.27	13.48	13.51	13.78	13.43	13.48	13.68	13.71	13.98
8H 4H	13.31	13.36	13.53	13.57	13.82	13.64	13.70	13.86	13.90	14.15
6H	13.51	13.56	13.77	13.80	14.07	13.86	13.90	14.11	14.14	14.41
8H	13.51	13.55	13.77	13.80	14.08	13.85	13.89	14.11	14.14	14.42
12H	13.50	13.54	13.77	13.79	14.07	13.84	13.88	14.11	14.13	14.41
12H 4H	13.54	13.59	13.79	13.82	14.09	13.95	14.00	14.20	14.23	14.50
6H	13.57	13.61	13.83	13.86	14.14	13.98	14.03	14.24	14.27	14.55

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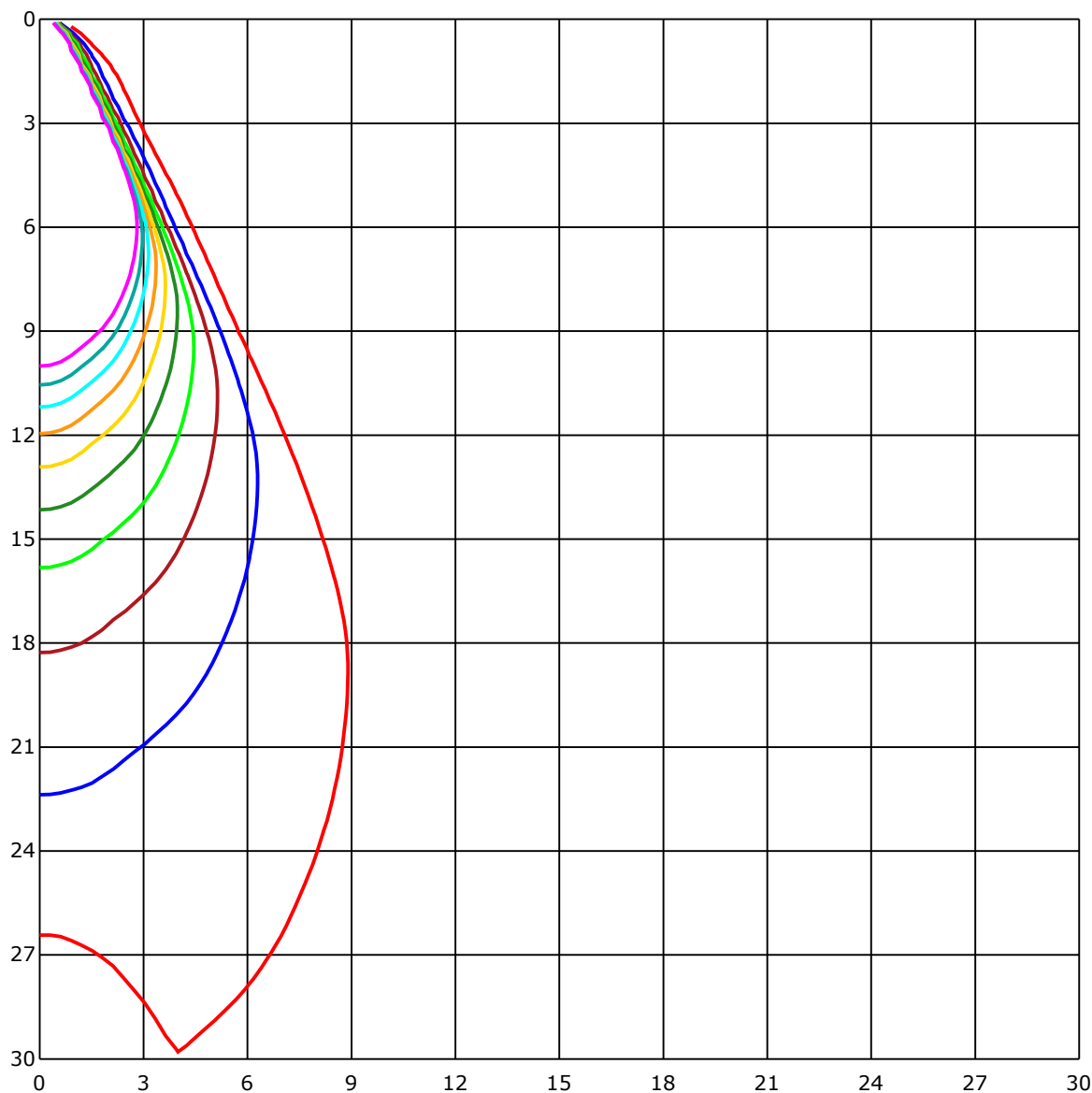
G Range: 0 - 90 Deg
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Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

18.303	9.151
16.473	7.321
14.642	5.491
12.812	3.661
10.982	1.83

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1832.54	1822.49	1832.77	1815.89	1832.54	1822.49	1832.77	1815.89	1832.54	
G1	1832.14	1804.44	1819.66	1791.96	1826.31	1835.33	1841.43	1828.33	1832.14	
G2	1821.55	1780.88	1800.31	1768.53	1811.54	1831.74	1834.74	1833.8	1821.55	
G3	1807.36	1754.08	1782.94	1741.96	1790.8	1825.99	1826.93	1837.26	1807.36	
G4	1788.51	1717.18	1755.24	1712.1	1772.89	1818.58	1811.36	1833.35	1788.51	
G5	1756.55	1685.26	1729.3	1683.38	1743.89	1799.28	1790.17	1818.0	1756.55	
G6	1726.51	1652.4	1697.43	1651.14	1712.6	1773.74	1758.39	1803.23	1726.51	
G7	1685.89	1620.71	1663.89	1615.37	1677.99	1749.45	1729.07	1771.81	1685.89	
G8	1659.9	1588.3	1628.92	1574.83	1642.08	1717.58	1694.73	1743.98	1659.9	
G9	1625.87	1560.38	1602.62	1534.07	1605.67	1689.84	1670.99	1712.24	1625.87	
G10	1595.57	1525.5	1567.83	1493.63	1569.89	1657.34	1638.53	1682.93	1595.57	
G11	1564.06	1491.7	1529.9	1444.56	1525.09	1621.43	1608.59	1648.5	1564.06	
G12	1530.75	1446.45	1487.66	1391.23	1484.78	1590.09	1571.96	1618.82	1530.75	
G13	1491.02	1407.57	1441.78	1336.96	1427.23	1544.8	1536.67	1583.99	1491.02	
G14	1448.78	1360.98	1393.12	1286.59	1373.28	1495.78	1481.55	1544.71	1448.78	
G15	1405.73	1310.83	1348.36	1235.15	1318.2	1445.14	1434.82	1502.87	1405.73	
G16	1354.78	1256.79	1297.68	1182.18	1265.81	1389.88	1378.35	1462.65	1354.78	
G17	1306.3	1210.23	1248.17	1125.03	1211.27	1340.51	1326.28	1410.98	1306.3	
G18	1259.21	1159.28	1195.24	1072.11	1162.16	1284.3	1270.39	1364.07	1259.21	
G19	1207.18	1106.63	1141.01	1019.45	1107.66	1228.15	1213.87	1310.07	1207.18	
G20	1161.53	1054.87	1088.67	969.85	1056.44	1175.53	1154.62	1257.23	1161.53	
G21	1107.57	1003.61	1036.65	916.07	1006.25	1124.58	1100.21	1202.02	1107.57	
G22	1056.94	949.92	983.14	868.08	957.1	1065.64	1041.85	1150.8	1056.94	
G23	1002.62	896.05	930.75	819.24	908.21	1012.58	989.73	1095.59	1002.62	
G24	950.01	844.2	876.25	770.49	860.32	957.46	933.13	1043.69	950.01	
G25	894.7	792.98	819.92	717.12	807.62	908.62	876.48	989.38	894.7	
G26	837.42	742.62	751.77	669.35	733.91	857.8	812.82	941.16	837.42	
G27	765.42	694.54	665.09	618.05	641.93	810.17	733.37	887.03	765.42	
G28	669.98	638.02	569.16	558.88	543.8	760.93	636.0	838.68	669.98	
G29	566.15	577.15	471.43	496.93	444.1	714.74	532.53	787.77	566.15	
G30	463.44	512.37	373.98	439.11	348.48	658.58	432.25	738.84	463.44	
G31	363.12	448.68	289.76	379.28	269.61	599.24	337.66	680.71	363.12	
G32	276.61	387.85	230.82	321.86	217.9	537.6	258.84	619.17	276.61	
G33	218.34	329.0	192.76	266.47	181.0	471.26	209.86	554.21	218.34	
G34	182.52	273.25	161.96	216.91	151.73	408.27	176.82	491.5	182.52	
G35	153.03	221.58	136.65	173.05	128.97	346.15	147.91	425.74	153.03	
G36	129.55	175.16	116.67	137.05	111.42	286.94	123.36	362.58	129.55	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	111.78	137.09	99.61	109.76	95.71	233.65	103.47	302.47	111.78	
G38	95.71	109.58	84.89	92.2	82.51	187.91	86.46	246.98	95.71	
G39	81.07	91.84	73.8	79.86	72.32	149.26	72.72	197.79	81.07	
G40	67.92	78.42	65.27	67.83	64.55	121.38	62.04	156.4	67.92	
G41	59.03	66.35	58.94	58.13	58.18	103.61	54.59	126.32	59.03	
G42	52.7	56.83	53.51	51.4	53.28	88.66	48.84	106.61	52.7	
G43	46.64	50.5	49.2	45.56	49.24	75.77	44.04	90.45	46.64	
G44	42.78	44.8	45.74	41.12	45.92	65.81	40.18	77.57	42.78	
G45	39.41	40.94	42.96	37.84	43.09	58.85	37.62	67.78	39.41	
G46	36.59	37.39	40.63	35.37	40.98	53.02	35.24	60.42	36.59	
G47	34.3	35.1	38.47	33.22	38.52	48.66	33.44	54.86	34.3	
G48	32.46	32.95	36.68	31.38	36.68	44.67	31.47	49.69	32.46	
G49	30.48	31.06	34.79	29.85	34.57	42.11	29.54	45.56	30.48	
G50	28.86	29.45	33.13	28.1	32.95	39.73	28.01	42.78	28.86	
G51	27.16	27.88	31.74	26.8	31.33	37.8	26.4	40.04	27.16	
G52	25.81	26.4	30.17	25.81	29.76	35.78	24.82	37.98	25.81	
G53	24.29	25.05	28.82	24.29	28.1	33.98	23.43	36.0	24.29	
G54	23.25	23.7	27.2	23.34	26.8	32.14	22.04	34.21	23.25	
G55	21.73	22.67	25.9	22.0	25.5	30.88	20.69	32.28	21.73	
G56	20.47	21.55	24.64	21.01	24.24	29.31	19.66	30.66	20.47	
G57	19.53	20.56	23.57	19.84	23.12	28.15	18.4	29.22	19.53	
G58	18.45	19.62	22.13	18.99	21.91	26.4	17.46	27.83	18.45	
G59	17.37	18.58	21.14	18.0	20.65	25.27	16.25	26.31	17.37	
G60	16.34	17.64	19.62	17.01	19.35	24.11	15.31	25.14	16.34	
G61	14.99	16.83	18.4	16.07	17.91	23.03	13.96	23.66	14.99	
G62	13.83	15.67	16.83	15.04	16.16	21.73	12.75	22.67	13.83	
G63	12.43	14.68	15.35	14.1	14.99	20.74	11.58	21.32	12.43	
G64	11.4	13.83	14.59	13.15	14.54	19.57	10.86	20.29	11.4	
G65	10.82	12.52	14.28	11.72	14.01	18.32	10.46	19.08	10.82	
G66	10.55	11.36	13.69	10.68	13.42	17.01	10.1	17.82	10.55	
G67	10.1	10.46	13.15	10.19	13.06	15.94	9.61	16.74	10.1	
G68	9.88	9.88	12.52	9.61	12.48	14.63	9.16	15.53	9.88	
G69	9.38	9.61	12.08	9.29	12.03	14.01	8.89	14.59	9.38	
G70	9.02	9.11	11.63	8.8	11.72	13.38	8.3	13.83	9.02	
G71	8.57	8.71	11.18	8.3	11.04	12.84	8.04	13.2	8.57	
G72	8.17	8.13	10.73	7.9	10.68	12.25	7.77	12.7	8.17	
G73	7.86	7.63	10.28	7.27	10.28	11.67	7.41	12.08	7.86	

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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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