

Report No.:

Test Time: 2024/7/17 18:02:43

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-45°-10W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

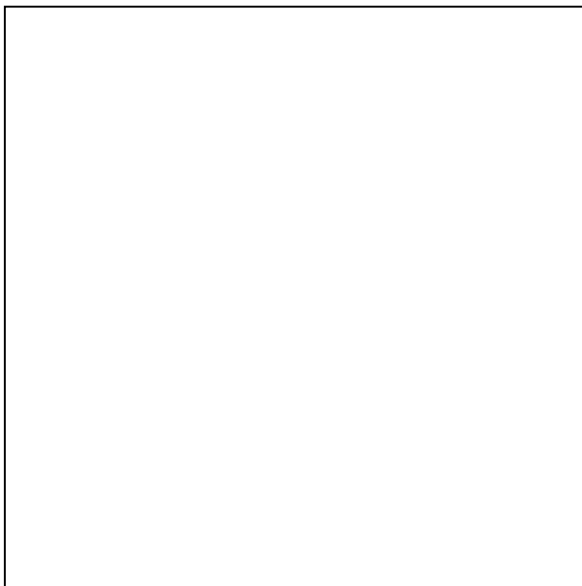
Voltage(V): 219.90 V
Current(A): 0.0520 A
Power(W): 10.68 W
Power Factor: 0.9190
Lamp Luminous Flux: 943.82

Photometric Results

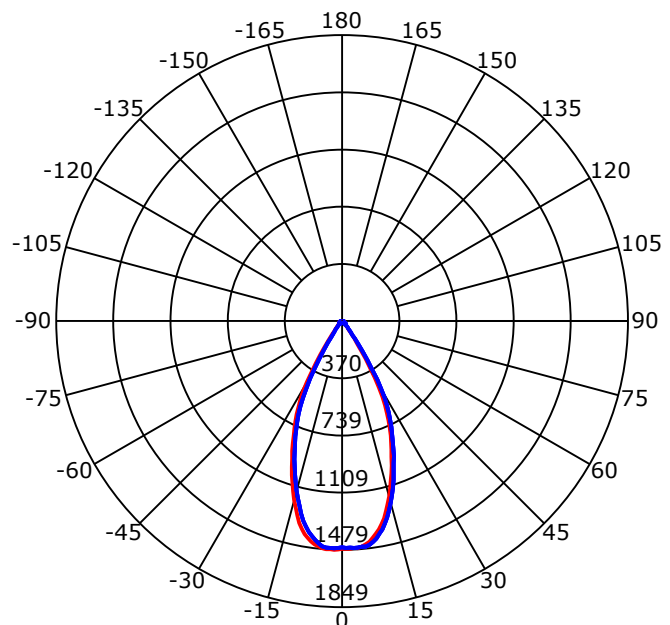
CIE Class: Direct
Luminaire Luminous Flux: 943.8226 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 88.37 lm/W
Beam Angle(50%) C0-180,C90-270: 48.8,48.9
Field Angle(10%) C0-180,C90-270: 70.0,69.3
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 1478.99 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1471.76 cd
Effective Luminous Flux: 859.65 lm
ERP(ϕ use)(120deg): 933.34 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



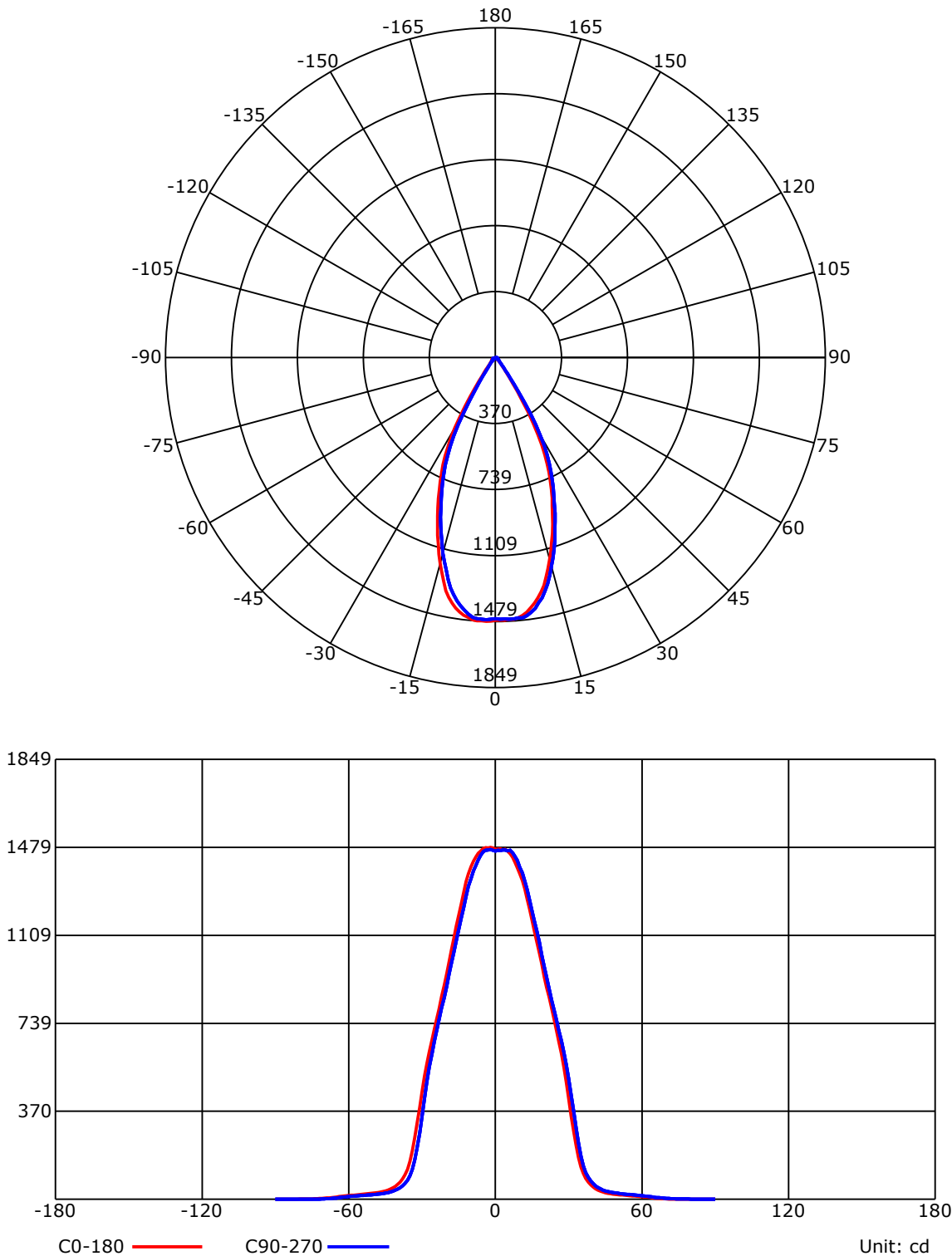
Beam Angle(50%) C0-180,C90-270: 48.8 deg,48.9 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/17 18:02:43

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

Luminous Intensity Distribution Curve



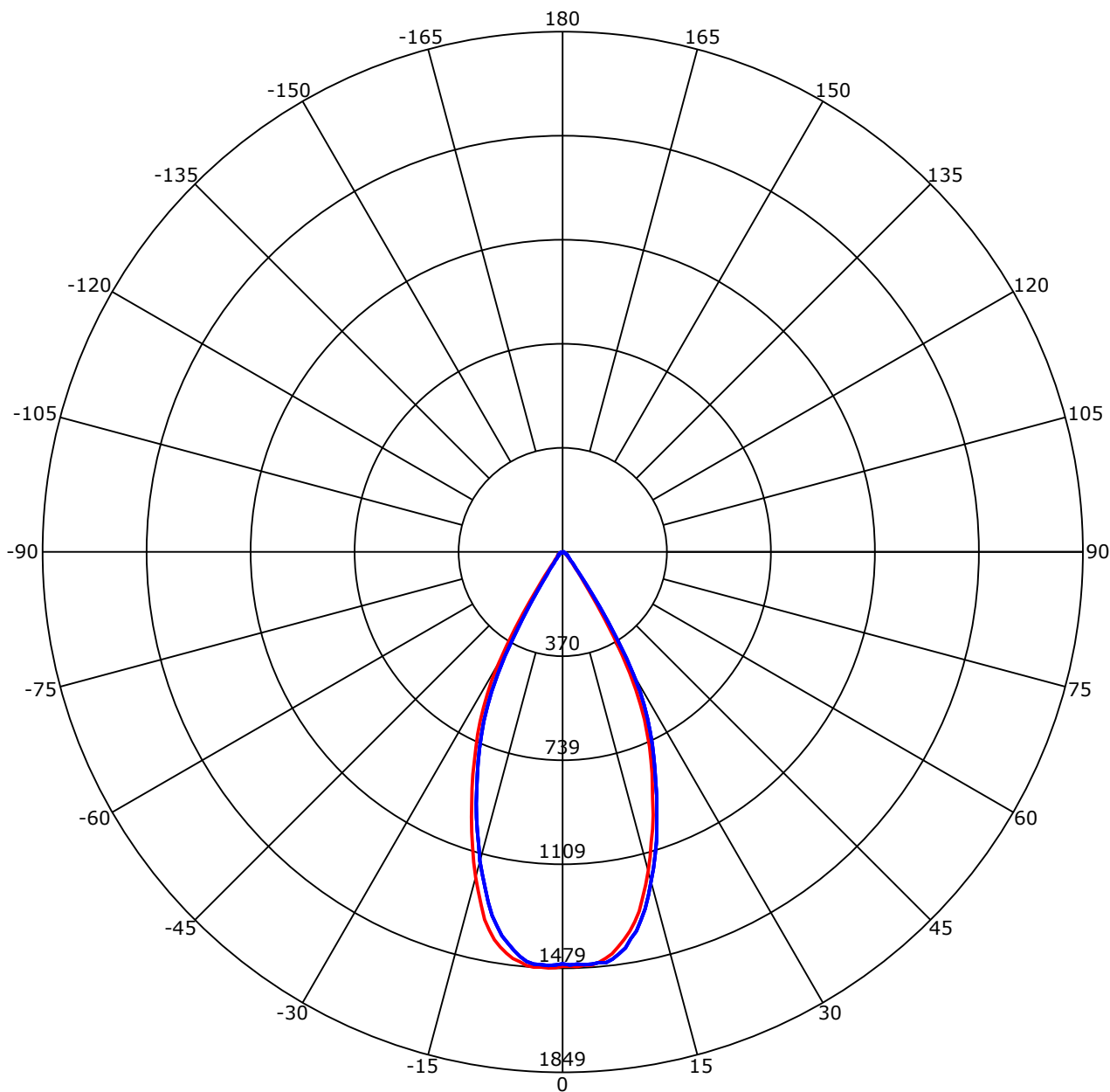
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Luminous Intensity Distribution Curve



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: 2024/7/17 18:02:43

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

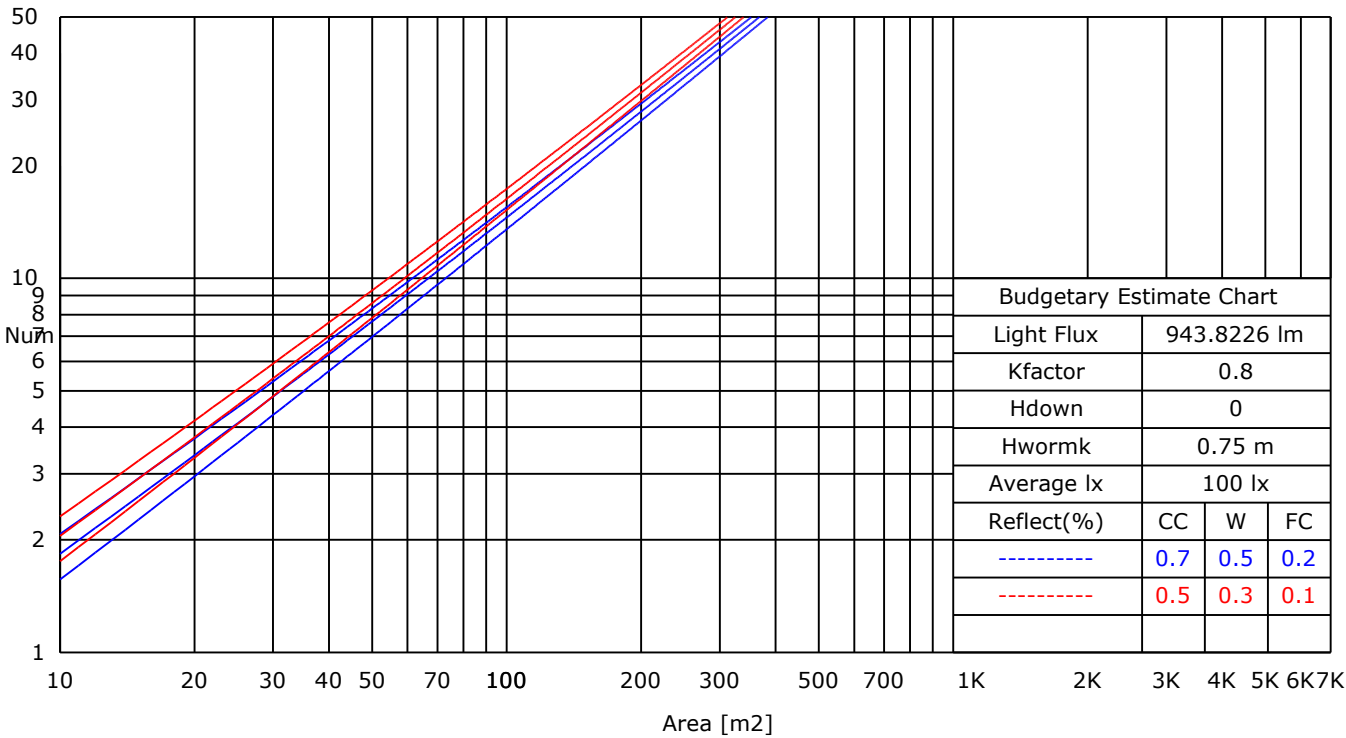
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UTILIZATION FACTORS TABLE

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	1.01	1.00	1.02	1.00	0.98	0.98	0.96	0.94	0.94	0.91	0.89	0.87	0.85	0.83	0.77
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	0.92	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	0.91	0.89	0.91	0.89	0.87	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	0.79	0.76	0.74	0.76	0.73	0.70	0.73	0.69	0.66	0.63
9	0.80	0.78	0.78	0.79	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	0.78	0.76	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.60

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



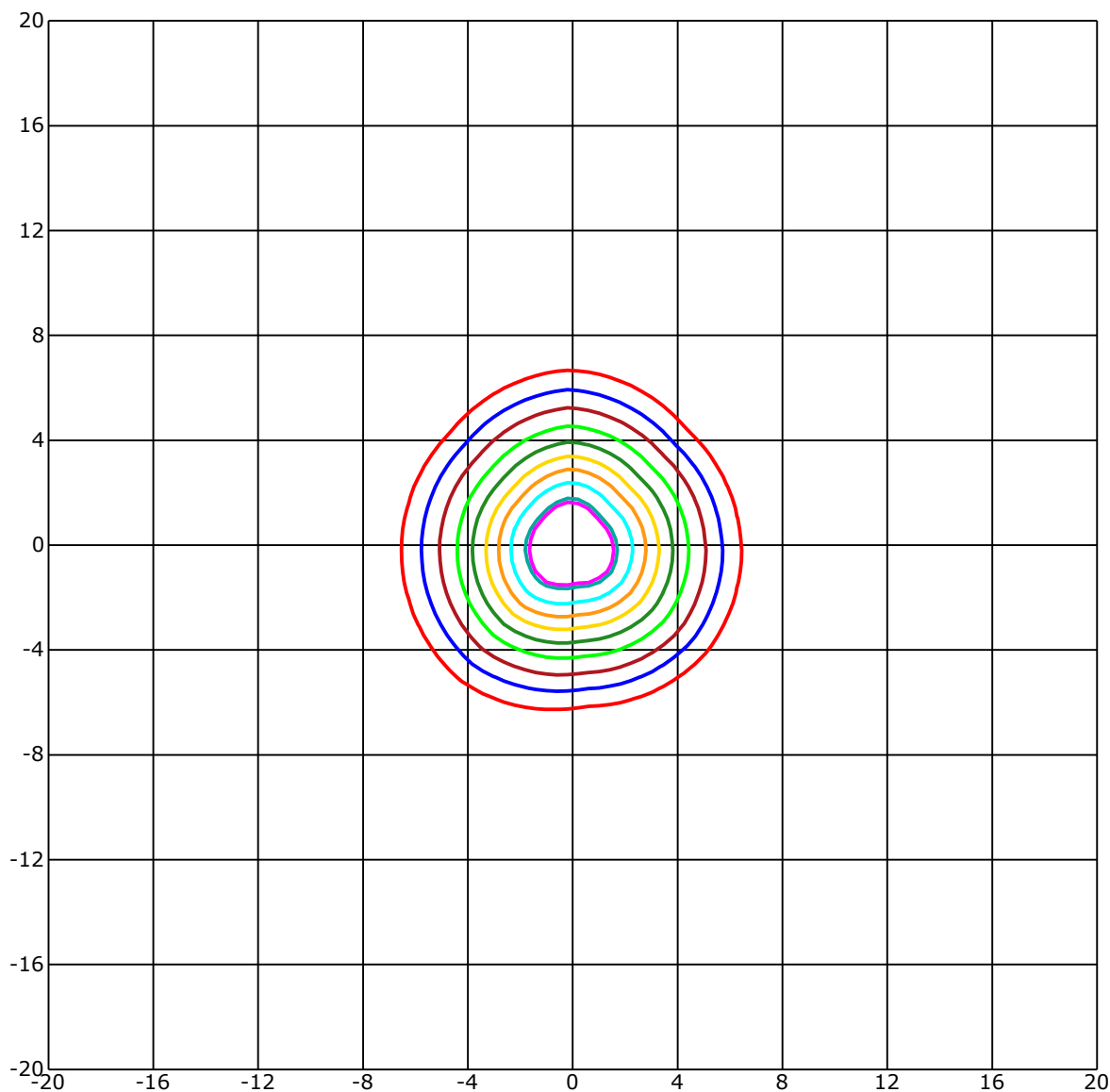
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ISOLX DIAGRAM



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

13.584(92%Emax)	7.383(50%Emax)
13.289(90%Emax)	5.906(40%Emax)
11.812(80%Emax)	4.43(30%Emax)
10.336(70%Emax)	2.953(20%Emax)
8.859(60%Emax)	1.477(10%Emax)

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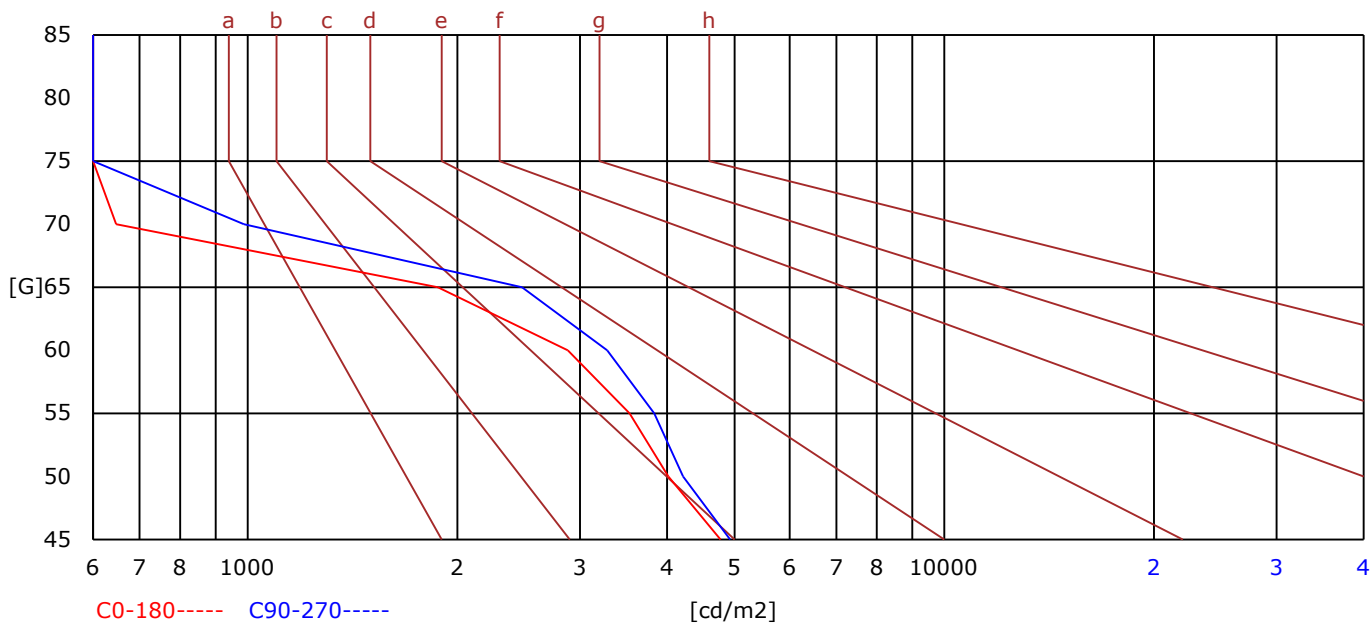
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	4773	4018	3536	2882	1875	648	0	0	0
C90	4930	4216	3836	3281	2478	988	128	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



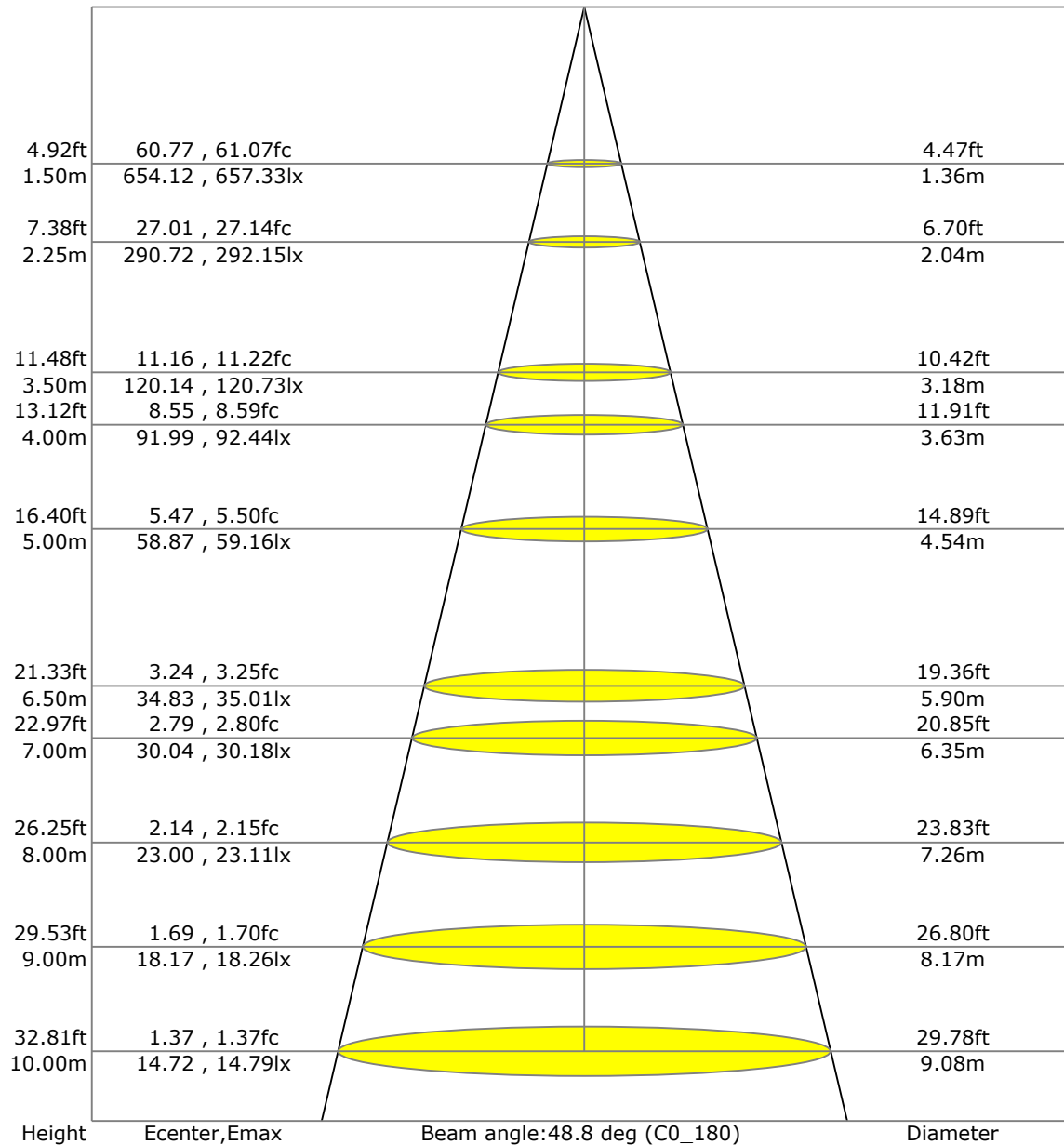
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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 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
 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	7.79	7.84	7.99	8.02	8.27	8.04	8.09	8.24	8.27	8.52
	3H	7.78	7.83	7.99	8.02	8.27	8.02	8.07	8.23	8.27	8.51
	4H	7.77	7.82	7.98	8.01	8.26	8.01	8.06	8.22	8.25	8.50
	6H	7.75	7.80	7.97	8.00	8.25	7.99	8.04	8.21	8.24	8.49
	8H	7.74	7.79	7.96	8.00	8.25	7.98	8.03	8.20	8.24	8.49
	12H	7.73	7.78	7.95	7.99	8.24	7.97	8.02	8.19	8.23	8.48
4H	2H	7.91	7.96	8.12	8.16	8.41	8.33	8.38	8.54	8.58	8.83
	3H	7.90	7.95	8.12	8.16	8.41	8.31	8.36	8.53	8.57	8.82
	4H	7.88	7.93	8.11	8.14	8.40	8.29	8.34	8.52	8.56	8.81
	6H	7.86	7.91	8.09	8.13	8.39	8.27	8.32	8.51	8.54	8.80
	8H	7.85	7.89	8.09	8.12	8.39	8.26	8.31	8.50	8.53	8.80
	12H	7.83	7.88	8.08	8.11	8.38	8.24	8.29	8.49	8.52	8.79
8H	4H	7.89	7.94	8.10	8.14	8.39	8.32	8.37	8.54	8.57	8.83
	6H	7.82	7.86	8.07	8.10	8.37	8.24	8.29	8.50	8.53	8.80
	8H	7.80	7.85	8.06	8.09	8.37	8.23	8.27	8.49	8.52	8.79
	12H	7.79	7.83	8.06	8.08	8.36	8.21	8.25	8.48	8.51	8.79
12H	4H	7.83	7.88	8.08	8.11	8.38	8.26	8.31	8.51	8.54	8.81
	6H	7.80	7.85	8.06	8.09	8.37	8.23	8.27	8.49	8.52	8.80

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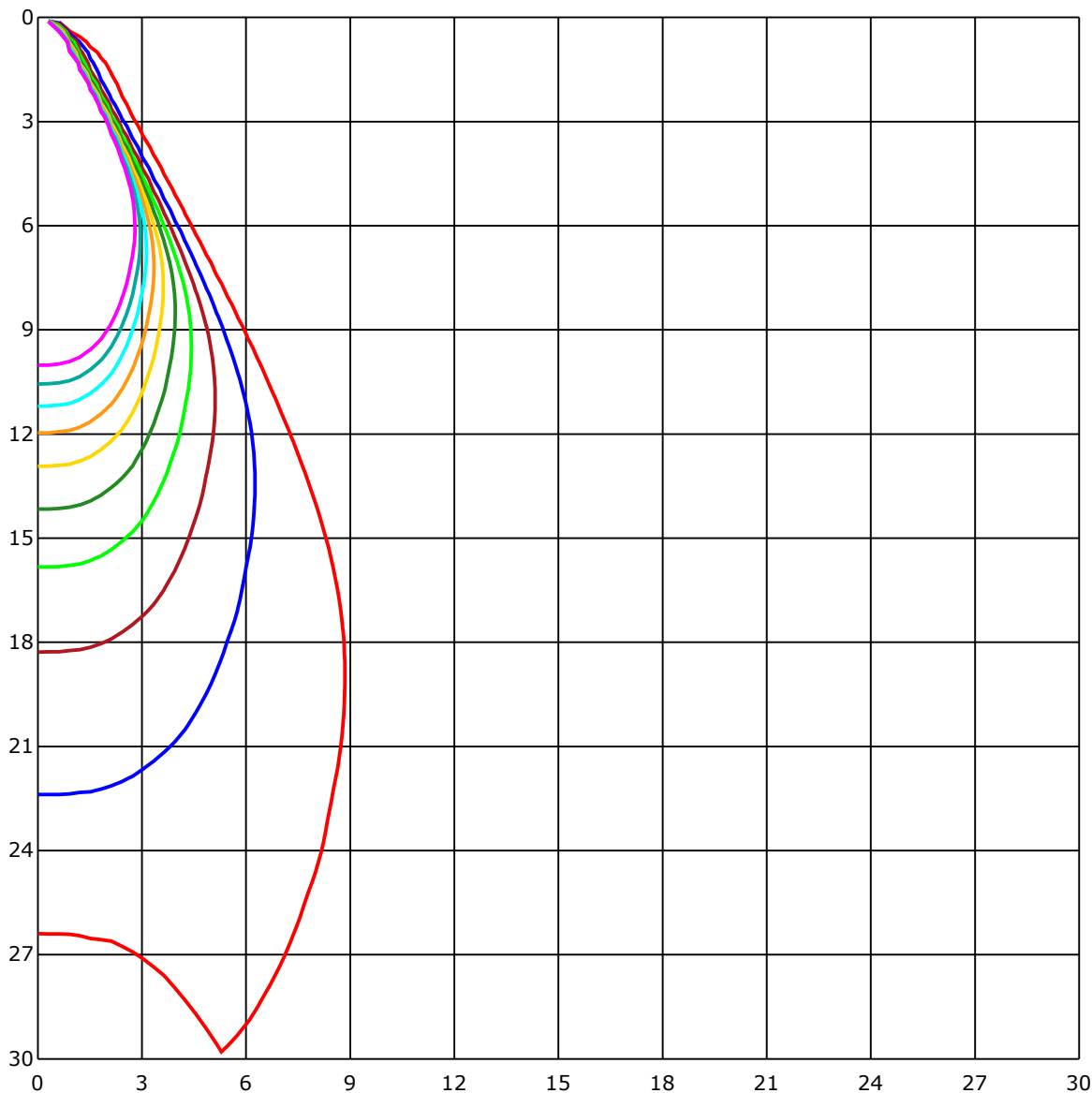
[illegible]

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

14.684	7.342
13.216	5.874
11.747	4.405
10.279	2.937
8.811	1.468

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1471.76	1465.21	1462.97	1463.55	1471.76	1465.21	1462.97	1463.55	1471.76	
G1	1471.99	1462.56	1466.92	1461.89	1477.2	1462.2	1466.83	1470.42	1471.99	
G2	1473.51	1462.56	1465.3	1464.54	1478.99	1460.5	1469.88	1470.46	1473.51	
G3	1469.56	1452.78	1468.08	1468.35	1477.33	1465.48	1467.86	1476.07	1469.56	
G4	1471.72	1447.66	1467.99	1467.41	1478.18	1470.96	1467.14	1477.06	1471.72	
G5	1463.68	1439.49	1464.18	1459.02	1474.55	1467.45	1460.81	1477.15	1463.68	
G6	1452.6	1428.98	1466.69	1446.72	1463.55	1469.65	1445.19	1471.63	1452.6	
G7	1438.23	1410.4	1456.68	1432.22	1454.97	1460.45	1426.11	1460.09	1438.23	
G8	1416.5	1387.73	1440.97	1416.32	1439.17	1450.53	1402.99	1440.97	1416.5	
G9	1393.52	1353.88	1423.82	1389.35	1420.41	1434.68	1380.19	1422.61	1393.52	
G10	1368.25	1323.31	1395.18	1355.32	1398.46	1416.46	1348.45	1394.19	1368.25	
G11	1339.02	1286.46	1371.61	1323.4	1368.52	1388.54	1316.09	1359.72	1339.02	
G12	1304.86	1244.71	1337.14	1282.82	1335.12	1363.31	1272.59	1321.52	1304.86	
G13	1261.23	1201.66	1301.63	1240.63	1287.89	1328.3	1224.69	1281.61	1261.23	
G14	1219.39	1166.24	1257.28	1192.5	1240.63	1292.52	1181.37	1243.18	1219.39	
G15	1173.78	1122.03	1212.97	1138.9	1196.72	1250.41	1136.3	1204.53	1173.78	
G16	1127.01	1070.94	1169.03	1089.3	1147.21	1204.71	1084.68	1154.17	1127.01	
G17	1077.32	1019.68	1124.63	1040.19	1095.77	1161.93	1036.73	1107.3	1077.32	
G18	1034.71	972.54	1080.19	989.38	1047.6	1111.61	992.2	1062.55	1034.71	
G19	988.43	924.78	1025.51	940.49	996.15	1056.44	944.93	1019.36	988.43	
G20	935.24	879.26	977.93	893.98	945.92	1006.34	892.14	970.25	935.24	
G21	889.72	835.36	933.94	847.3	899.37	957.01	846.13	927.56	889.72	
G22	847.93	793.66	882.22	801.06	851.56	908.03	803.49	881.42	847.93	
G23	803.31	748.41	836.79	758.1	801.38	857.67	756.58	835.76	803.31	
G24	757.56	700.06	796.21	709.4	759.18	810.13	709.98	792.26	757.56	
G25	709.98	653.82	754.56	668.37	715.28	763.8	664.15	750.25	709.98	
G26	662.53	605.39	709.44	625.72	669.76	719.63	611.13	705.94	662.53	
G27	610.41	547.52	665.18	578.99	620.38	672.32	556.86	657.59	610.41	
G28	554.21	484.68	617.42	527.14	571.0	624.87	495.14	606.06	554.21	
G29	491.64	415.37	566.29	471.08	519.29	571.45	424.66	543.39	491.64	
G30	422.28	347.31	506.4	404.86	454.69	512.06	351.17	473.05	422.28	
G31	351.26	283.84	440.69	336.63	387.18	444.55	279.17	400.69	351.26	
G32	283.7	225.35	369.18	271.36	320.11	377.35	216.37	327.83	283.7	
G33	226.02	174.53	300.13	208.87	258.88	308.57	165.11	259.11	226.02	
G34	175.16	134.13	236.53	159.05	204.25	247.12	125.74	200.7	175.16	
G35	136.06	105.67	182.79	120.22	159.22	192.89	98.4	154.96	136.06	
G36	108.27	86.32	140.64	93.73	125.69	149.89	79.81	122.24	108.27	

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Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	87.58	70.75	111.78	76.27	102.48	119.18	66.71	100.1	87.58	
G38	72.18	59.88	91.76	63.56	84.71	98.22	56.16	83.85	72.18	
G39	60.92	51.49	77.08	54.14	72.05	82.42	48.89	70.93	60.92	
G40	51.4	44.8	65.76	46.6	62.44	69.71	42.56	61.54	51.4	
G41	44.08	39.55	56.61	41.03	54.36	60.42	38.16	54.59	44.08	
G42	38.47	35.28	49.47	36.76	48.3	53.46	33.89	48.84	38.47	
G43	33.67	31.83	43.68	33.31	42.6	47.72	30.53	43.45	33.67	
G44	30.12	29.45	38.78	30.39	38.65	43.0	27.61	39.41	30.12	
G45	27.25	27.34	35.24	28.24	35.1	39.1	25.77	36.45	27.25	
G46	24.96	25.72	32.37	26.53	32.46	36.45	24.02	34.03	24.96	
G47	23.48	24.29	30.17	25.09	30.57	33.8	22.71	31.87	23.48	
G48	21.95	23.07	28.33	23.7	28.51	32.01	21.5	30.21	21.95	
G49	20.74	21.95	26.93	22.8	26.98	30.26	20.51	28.82	20.74	
G50	19.66	20.92	25.63	21.95	25.86	28.91	19.44	27.56	19.66	
G51	18.63	19.98	24.11	21.19	24.38	27.88	18.67	26.71	18.63	
G52	17.73	19.17	22.98	20.07	23.3	26.66	17.78	25.5	17.73	
G53	16.83	18.23	21.95	19.35	22.36	25.81	17.01	24.73	16.83	
G54	15.89	17.46	20.69	18.49	21.19	24.87	16.12	23.66	15.89	
G55	15.04	16.43	19.93	17.82	20.29	23.7	15.4	22.58	15.04	
G56	14.1	15.58	19.03	17.15	19.3	22.71	14.5	21.55	14.1	
G57	13.2	14.54	17.91	16.03	18.36	21.95	13.87	20.47	13.2	
G58	12.52	13.69	16.83	15.13	17.6	21.05	13.2	19.48	12.52	
G59	11.63	12.57	15.94	14.32	16.56	20.02	12.21	18.54	11.63	
G60	10.73	11.67	14.86	13.29	15.44	18.94	11.18	17.51	10.73	
G61	9.74	10.73	13.78	12.25	14.59	17.96	10.23	16.61	9.74	
G62	8.84	9.79	12.75	11.27	13.56	17.01	9.43	15.35	8.84	
G63	7.63	8.53	11.72	10.37	12.43	16.07	8.17	14.28	7.63	
G64	5.79	7.68	10.15	9.38	11.09	15.04	6.46	13.11	5.79	
G65	4.62	6.42	8.62	8.48	9.11	13.92	5.12	12.17	4.62	
G66	3.86	5.39	7.32	7.23	7.9	12.75	4.49	10.95	3.86	
G67	3.14	4.08	6.55	6.24	7.0	11.63	3.59	9.83	3.14	
G68	2.69	3.1	5.75	5.03	6.19	10.41	2.87	8.57	2.69	
G69	2.02	2.33	4.85	3.73	5.39	9.11	2.15	7.18	2.02	
G70	1.44	1.8	4.13	2.74	4.62	7.86	1.66	5.97	1.44	
G71	0.81	1.3	3.41	2.11	4.08	6.6	1.08	4.98	0.81	
G72	0.45	0.76	2.83	1.62	3.55	5.57	0.54	4.31	0.45	
G73	0.0	0.36	2.33	0.99	2.74	4.62	0.18	3.77	0.0	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

[illegible]

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