

Report No.:

Test Time: 2023/2/27 8:51:56

## LUMINAIRE PHOTOMETRIC TEST REPORT

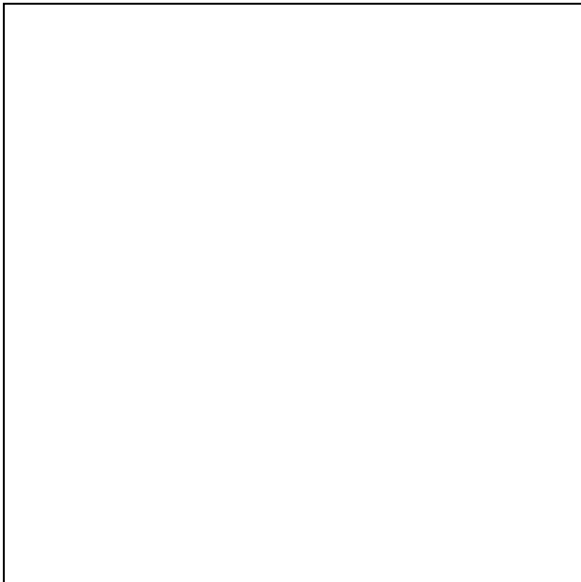
### Luminaire Property

Manufacturer: 0	Voltage(V): 220.70 V
Luminaire Type: 400W	Current(A): 1.8430 A
Lamp Type:	Power(W): 400.15 W
Luminous Width: 0 mm	Power Factor: 0.9830
Luminous Length: 0 mm	Lamp Luminous Flux: 53539.58
Luminous Height: 0 mm	

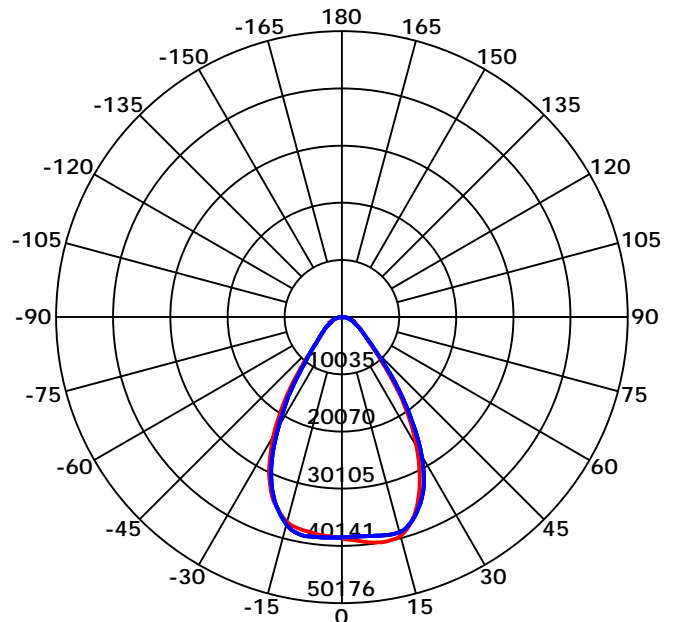
### Photometric Results

CIE Class: Direct	Max. Intensity: 40140.52 cd
Luminaire Luminous Flux: 53539.58 lm	Max. Intensity Angle: C=0 Gamma=11
Downward Ratio: 100.00%	Upward Ratio: 0.00%
Luminaire Efficacy Rating(LER): 133.80 lm/W	Efficacy: 100.00%
Beam Angle(50%) C0-180,C90-270: 67.3,67.6	Center Intensity: 38823.86 cd
Field Angle(10%) C0-180,C90-270: 109.1,110.4	Effective Luminous Flux: 47133.80 lm
S/MH C0-180,C90-270: 1.063,1.063	ERP(φuse)(120deg): 49004.08 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 67.3 deg,67.6 deg

C0-180 ——— C90-270 ———

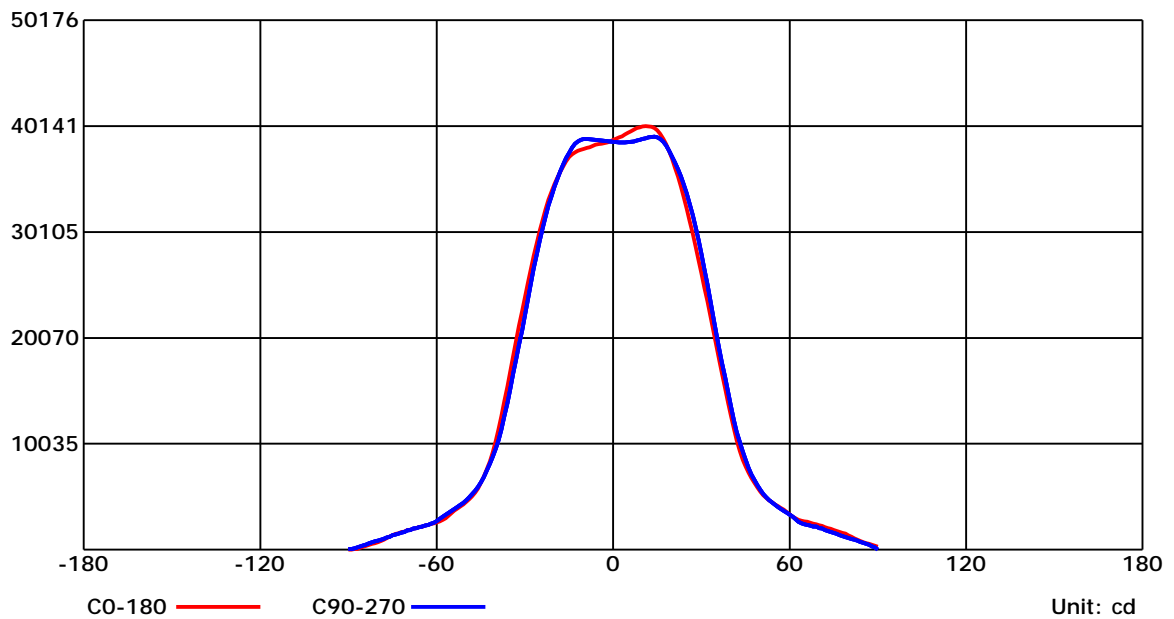
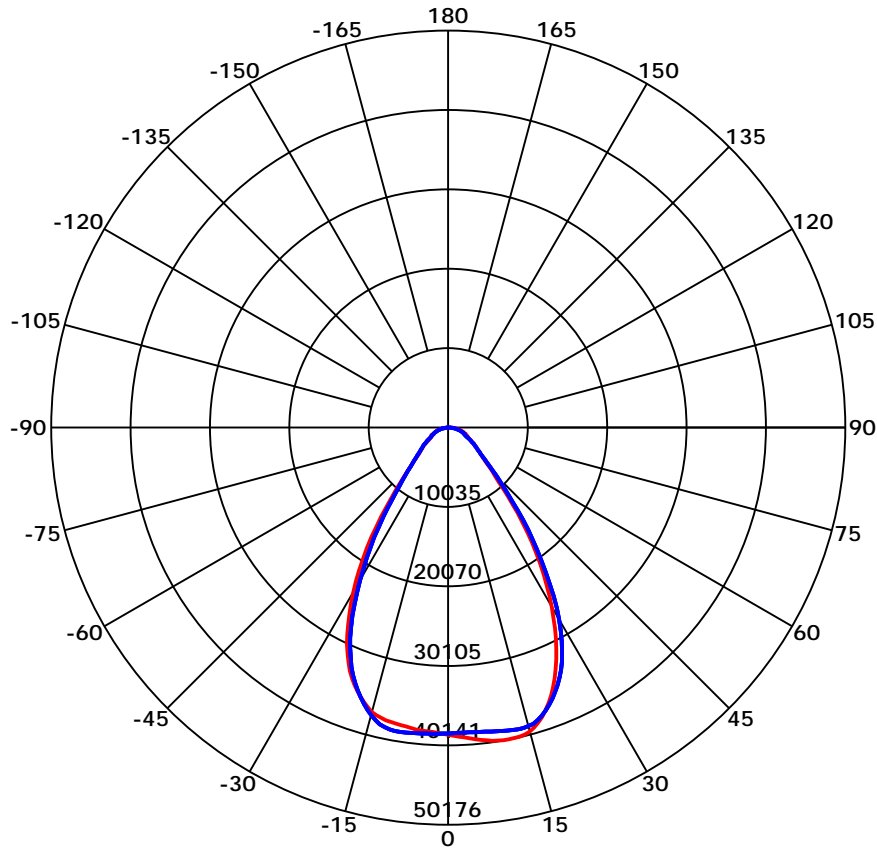
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2023/2/27 8:51:56

G Range: 0 - 90 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 6.38 m  
 Remarks:

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### Luminous Intensity Distribution Curve



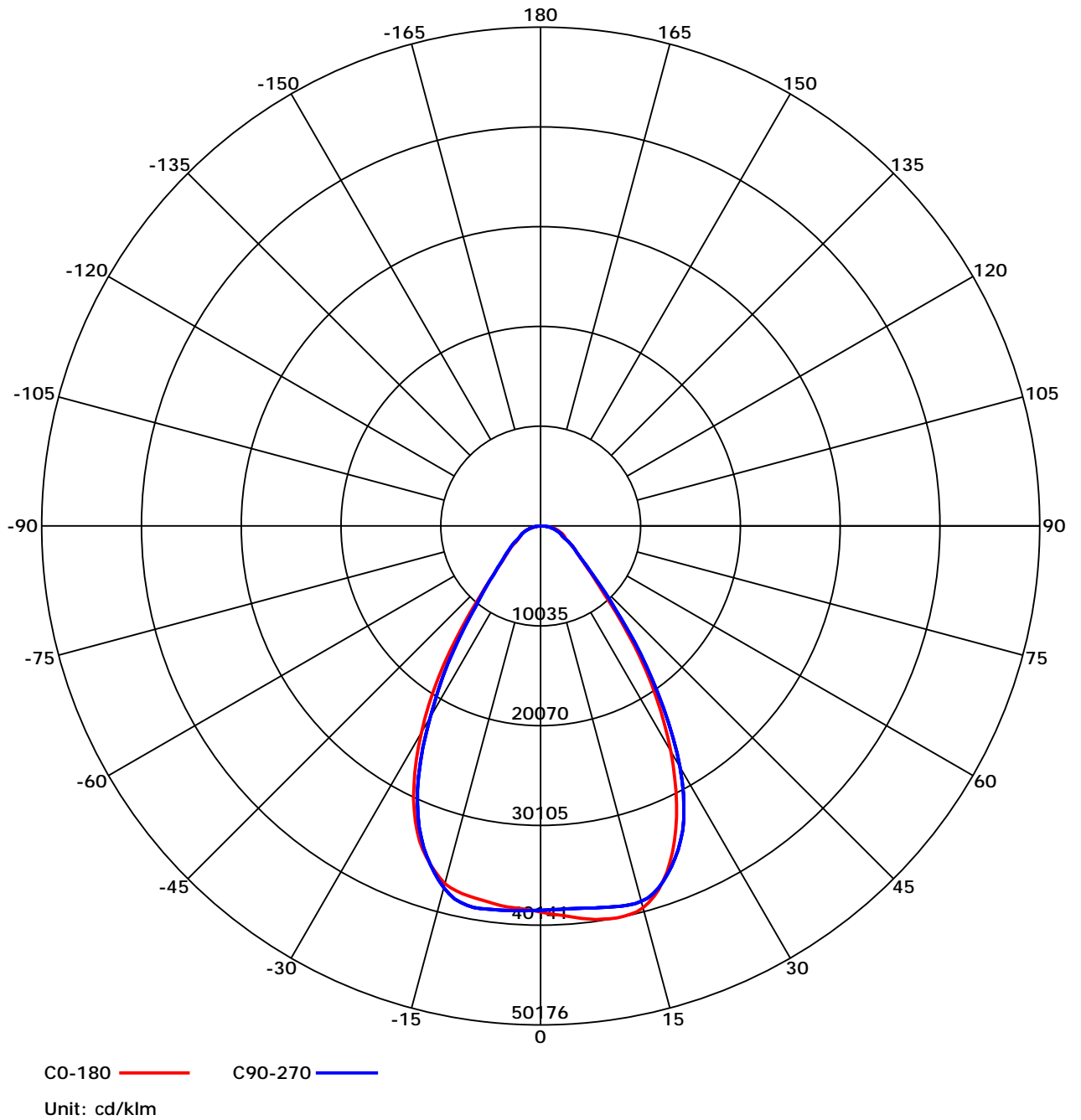
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## Luminous Intensity Distribution Curve



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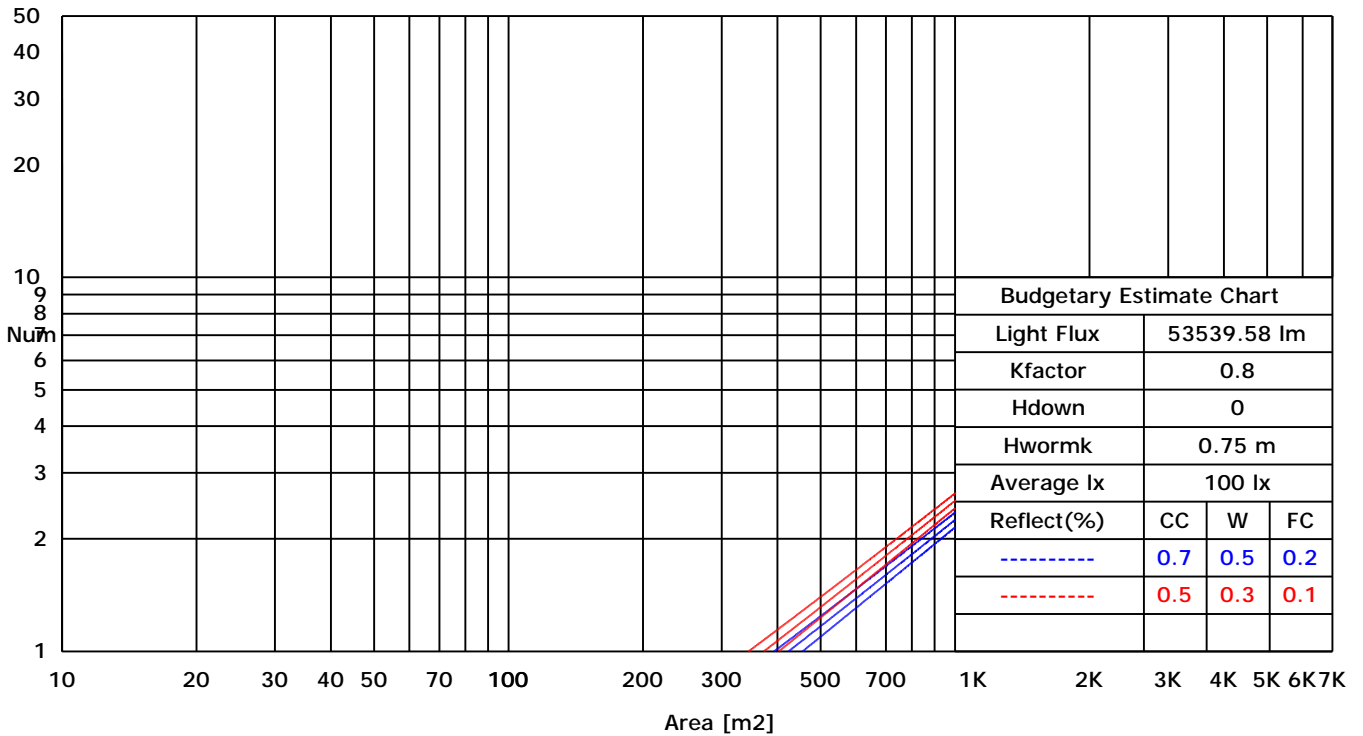
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## UTILIZATION FACTORS TABLE

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	COEFFICIENTS 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	1.07	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	1.00	0.98	0.97	0.99	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	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.83	0.80	0.81	0.78	0.75	0.70
4	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
5	0.82	0.80	0.79	0.81	0.79	0.77	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
6	0.77	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	0.58
7	0.74	0.72	0.71	0.73	0.71	0.69	0.72	0.68	0.66	0.70	0.66	0.63	0.67	0.63	0.59	0.55
8	0.70	0.68	0.67	0.70	0.67	0.66	0.68	0.65	0.63	0.67	0.62	0.59	0.65	0.60	0.56	0.53
9	0.67	0.65	0.64	0.66	0.64	0.63	0.65	0.62	0.60	0.64	0.60	0.57	0.62	0.57	0.54	0.50
10	0.64	0.62	0.62	0.64	0.61	0.60	0.63	0.59	0.57	0.61	0.57	0.54	0.60	0.55	0.51	0.48

## LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

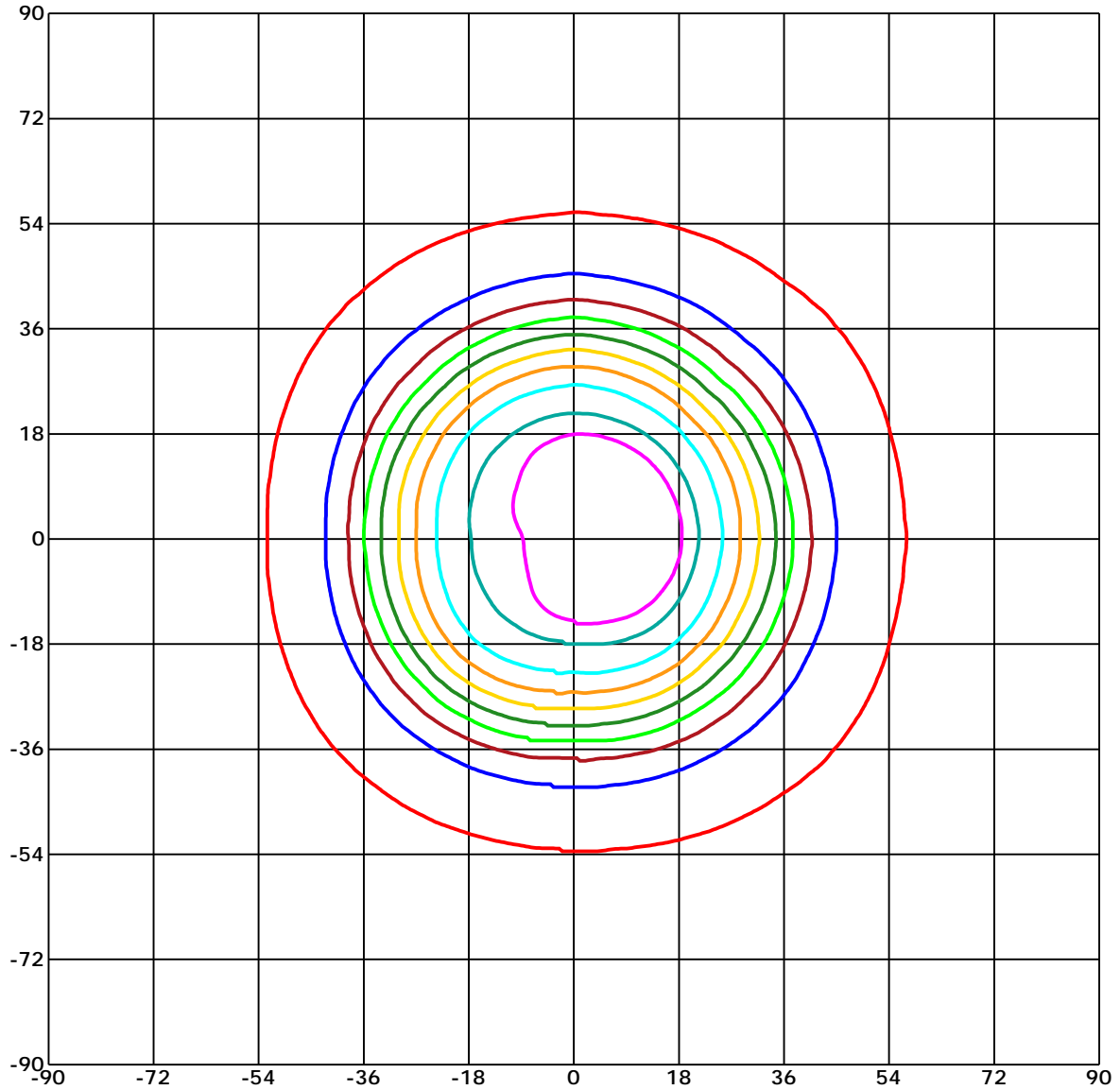
Test Distance: 6.38 m

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## ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd    I<sub>max</sub>(100%): 40140.52 cd

- |                                  |                                  |
|----------------------------------|----------------------------------|
| — 38133.5(95%I <sub>max</sub> )  | — 20070.26(50%I <sub>max</sub> ) |
| — 36126.47(90%I <sub>max</sub> ) | — 16056.21(40%I <sub>max</sub> ) |
| — 32112.42(80%I <sub>max</sub> ) | — 12042.16(30%I <sub>max</sub> ) |
| — 28098.37(70%I <sub>max</sub> ) | — 8028.105(20%I <sub>max</sub> ) |
| — 24084.31(60%I <sub>max</sub> ) | — 4014.052(10%I <sub>max</sub> ) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/2/27 8:51:56

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

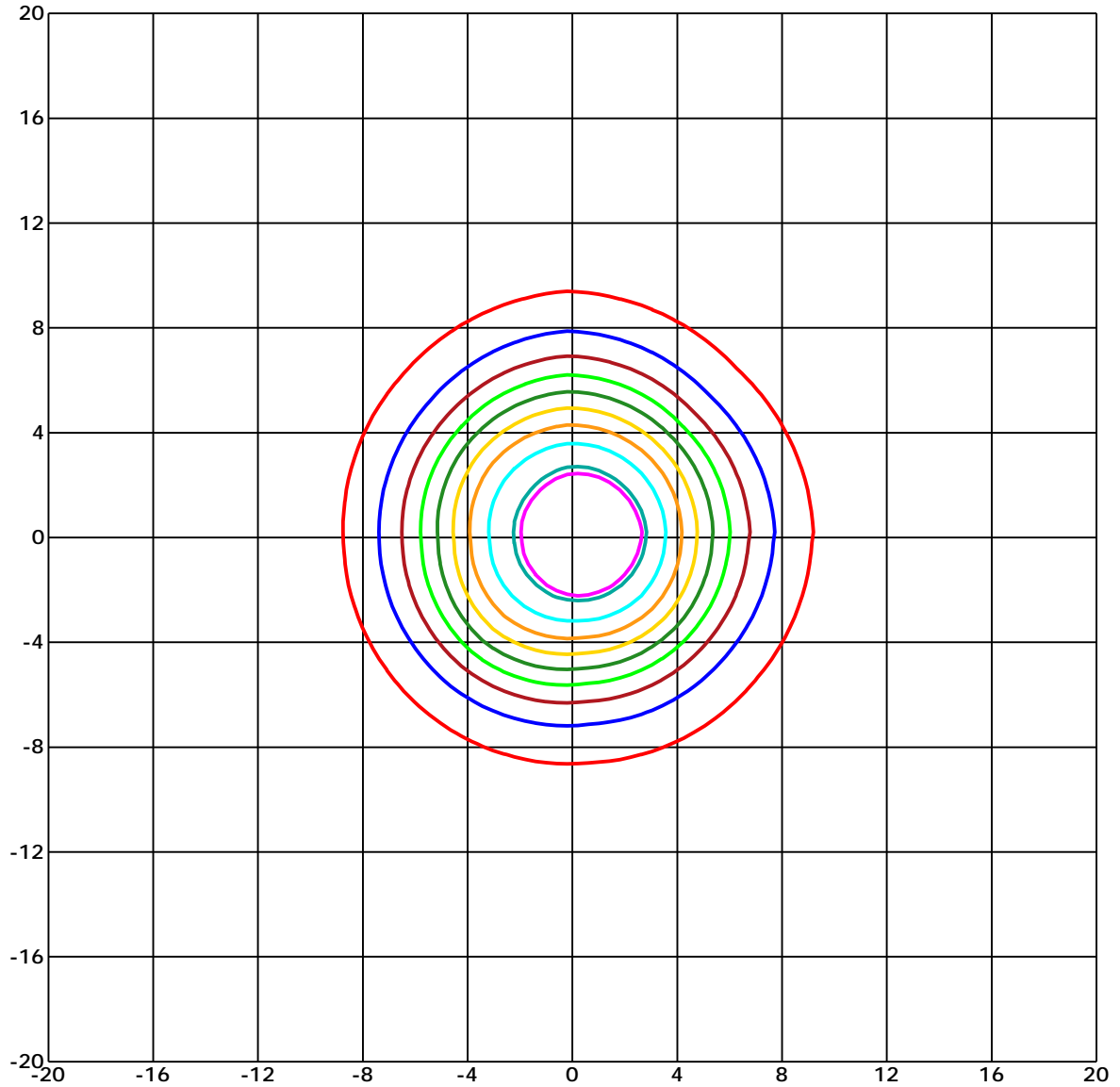
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## ISOLX DIAGRAM



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

— 359.428(1%Emax)	— 195.341(0%Emax)
— 351.614(1%Emax)	— 156.273(0%Emax)
— 312.546(1%Emax)	— 117.205(0%Emax)
— 273.478(1%Emax)	— 78.137(0%Emax)
— 234.41(1%Emax)	— 39.068(0%Emax)

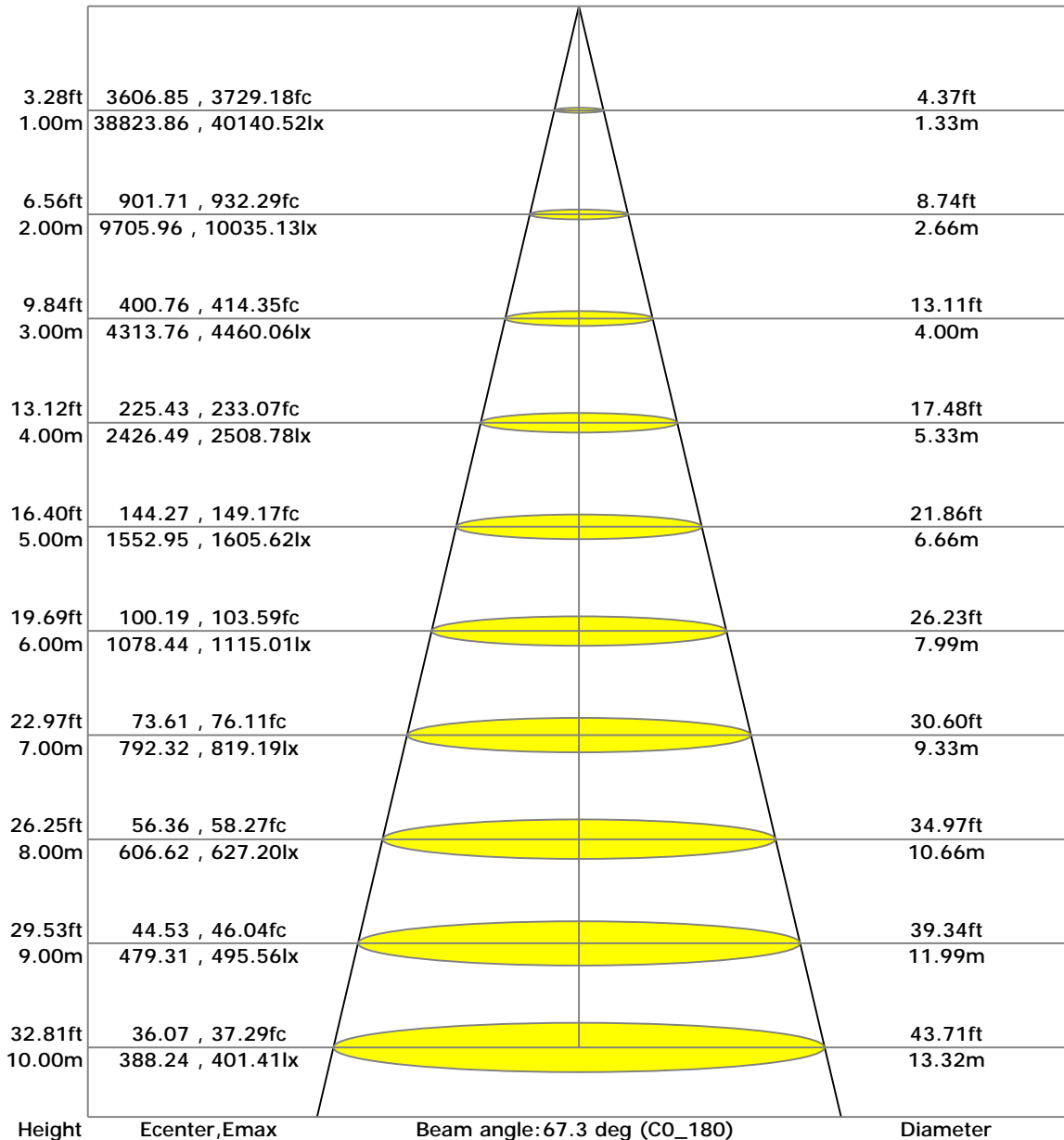
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G Range: 0 - 90 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 6.38 m  
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## LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2023/2/27 8:51:56

G Range: 0 - 90 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 6.38 m  
 Remarks:

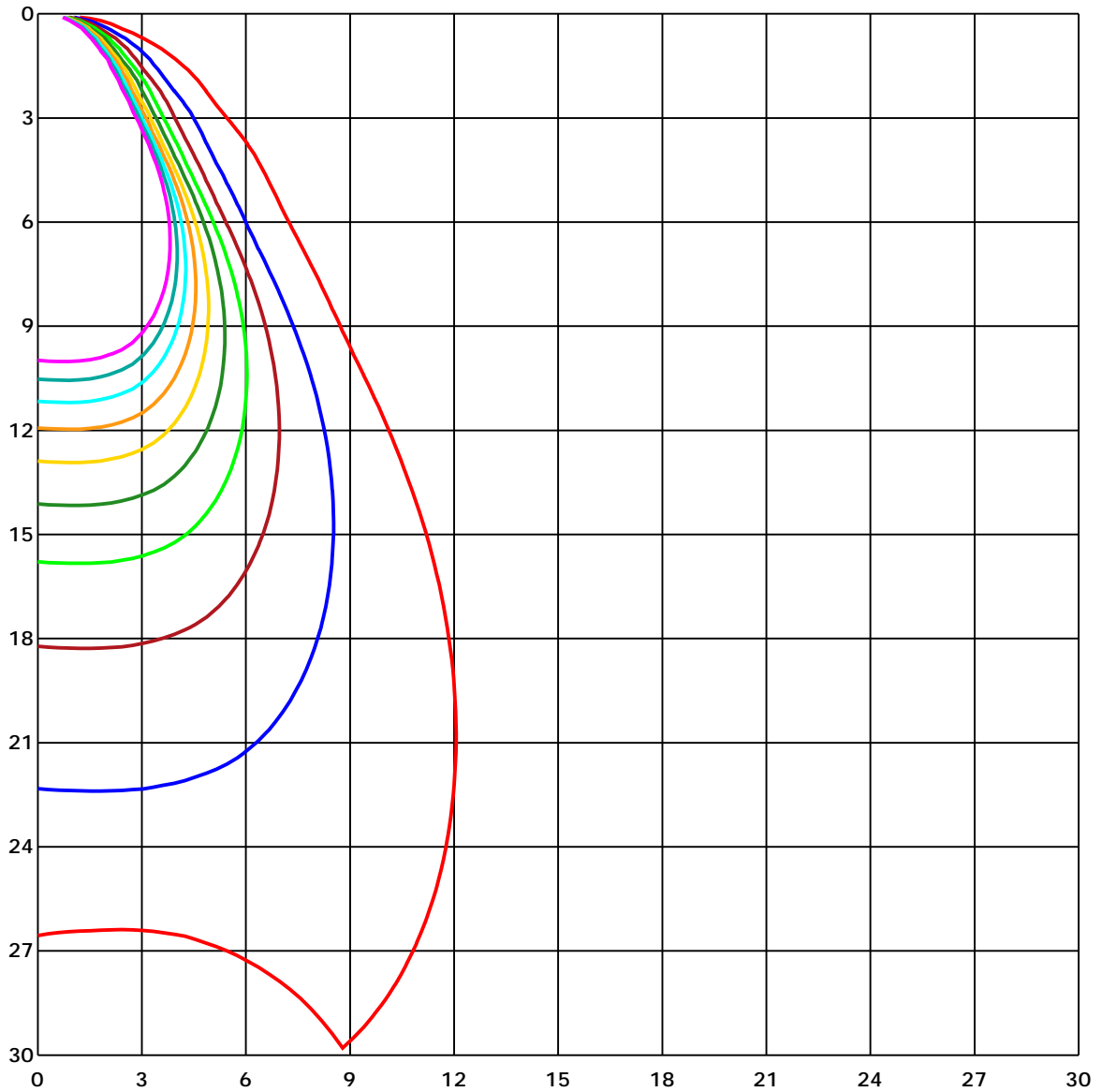




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## SPACE ISOLX DIAGRAM



Unit of illumination: lx

— 389.672	— 194.836
— 350.705	— 155.869
— 311.738	— 116.902
— 272.77	— 77.934
— 233.803	— 38.967

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/2/27 8:51:56

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

Remarks:

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## LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	38823.86	38549.14	38653.3	38699.79	38823.86	38549.14	38653.3	38699.79	38823.86	
G1	38954.03	38628.88	38618.71	38615.13	38700.32	38485.36	38673.25	38811.89	38954.03	
G2	39075.73	38700.36	38594.08	38550.49	38597.42	38425.0	38703.13	38929.61	39075.73	
G3	39185.23	38826.22	38591.88	38524.43	38521.59	38366.83	38736.22	39057.91	39185.23	
G4	39351.59	38969.29	38595.79	38484.83	38475.63	38283.51	38769.32	39180.23	39351.59	
G5	39517.66	39073.58	38623.18	38477.38	38445.1	38228.76	38804.12	39306.61	39517.66	
G6	39671.77	39197.4	38662.59	38475.92	38393.7	38195.71	38835.38	39436.95	39671.77	
G7	39813.3	39345.24	38699.75	38476.57	38274.31	38189.15	38862.57	39511.72	39813.3	
G8	39974.13	39446.92	38781.93	38477.06	38154.07	38189.93	38900.63	39574.29	39974.13	
G9	40022.89	39545.3	38842.09	38479.05	38067.9	38180.04	38937.5	39602.17	40022.89	
G10	40109.06	39625.08	38936.85	38425.08	37999.11	38148.94	38942.23	39591.79	40109.06	
G11	40140.52	39683.78	39004.59	38375.05	37904.51	38059.55	38848.89	39528.49	40140.52	
G12	40120.29	39701.57	39072.73	38291.57	37814.8	37933.21	38698.32	39421.11	40120.29	
G13	40070.43	39634.53	39124.34	38182.76	37657.15	37747.39	38479.7	39258.95	40070.43	
G14	39972.46	39507.77	39137.36	38038.1	37473.9	37514.89	38107.66	39015.21	39972.46	
G15	39750.49	39329.93	39071.3	37865.11	37222.14	37231.3	37634.64	38732.68	39750.49	
G16	39409.55	39097.39	38938.68	37628.86	36796.82	36891.21	37102.47	38432.85	39409.55	
G17	38943.73	38793.25	38658.48	37419.6	36324.32	36488.61	36498.95	37998.7	38943.73	
G18	38423.9	38398.7	38277.81	37060.09	35817.35	36009.64	35851.87	37494.86	38423.9	
G19	37762.37	37881.35	37809.54	36707.84	35255.18	35516.67	35134.49	36910.67	37762.37	
G20	37065.51	37307.01	37273.02	36258.54	34637.21	34951.45	34396.4	36245.64	37065.51	
G21	36241.08	36606.77	36702.96	35746.48	33952.48	34377.11	33531.23	35512.92	36241.08	
G22	35364.07	35850.93	36047.49	35125.05	33151.13	33750.05	32619.08	34687.15	35364.07	
G23	34398.43	34958.49	35369.77	34380.0	32240.41	33010.66	31561.91	33795.4	34398.43	
G24	33378.91	33981.34	34604.89	33518.45	31261.51	32104.86	30476.85	32756.09	33378.91	
G25	32302.93	32899.17	33778.14	32541.22	30251.79	31072.15	29298.42	31552.34	32302.93	
G26	31153.32	31685.93	32805.34	31440.61	29088.63	29966.33	28029.09	30259.04	31153.32	
G27	29944.8	30405.42	31711.21	30235.6	27863.18	28743.45	26664.84	28882.46	29944.8	
G28	28702.63	29045.77	30565.54	28945.79	26592.71	27396.91	25227.98	27479.01	28702.63	
G29	27438.76	27580.98	29369.2	27558.67	25320.34	25968.06	23745.24	26004.7	27438.76	
G30	26187.3	26074.34	28043.46	26094.82	23985.96	24434.85	22263.8	24497.74	26187.3	
G31	24839.66	24456.75	26626.54	24510.48	22630.1	22881.41	20783.02	22957.53	24839.66	
G32	23509.03	22880.88	25130.61	22963.35	21238.01	21311.77	19421.29	21434.08	23509.03	
G33	22168.43	21255.55	23595.2	21349.5	19808.11	19709.15	18033.8	19916.09	22168.43	
G34	20783.22	19678.54	22052.42	19757.63	18387.36	18172.97	16714.45	18455.01	20783.22	
G35	19429.68	18150.13	20565.74	18203.9	16931.53	16679.44	15270.26	17017.53	19429.68	
G36	18050.41	16698.13	19110.03	16717.13	15476.95	15203.87	13905.23	15651.29	18050.41	

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C Interval: 45.0 Deg

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G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

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### LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	16708.42	15223.69	17733.4	15213.92	14050.63	13826.27	12634.77	14310.61	16708.42	
G38	15292.36	13881.63	16366.51	13864.9	12668.43	12479.36	11393.57	13016.74	15292.36	
G39	13957.78	12634.24	14985.16	12575.67	11413.96	11260.22	10351.58	11855.44	13957.78	
G40	12704.21	11476.93	13627.47	11392.59	10263.17	10061.15	9524.99	10718.41	12704.21	
G41	11520.69	10370.87	12327.29	10278.15	9227.44	9064.99	8800.74	9734.82	11520.69	
G42	10374.74	9429.5	11186.02	9320.13	8341.8	8173.97	8125.41	8836.56	10374.74	
G43	9362.5	8592.09	10208.91	8476.33	7579.24	7433.6	7479.52	8072.33	9362.5	
G44	8547.15	7845.0	9331.36	7747.07	6921.54	6783.63	6868.22	7391.76	8547.15	
G45	7898.08	7202.77	8526.47	7101.09	6361.69	6178.03	6381.76	6799.47	7898.08	
G46	7326.63	6615.93	7780.61	6549.34	5816.99	5725.52	5961.44	6297.87	7326.63	
G47	6797.8	6150.03	7150.91	6082.74	5393.17	5312.86	5576.79	5870.15	6797.8	
G48	6304.67	5701.91	6586.26	5594.09	5049.95	4956.74	5248.1	5479.18	6304.67	
G49	5886.75	5328.61	6119.7	5240.41	4756.72	4673.92	4955.44	5151.14	5886.75	
G50	5495.38	5015.11	5678.06	4915.02	4515.79	4430.96	4682.59	4851.48	5495.38	
G51	5165.59	4749.39	5288.28	4610.91	4297.61	4197.72	4442.68	4599.31	5165.59	
G52	4919.29	4512.29	4994.19	4366.32	4113.06	4023.06	4240.34	4367.99	4919.29	
G53	4680.72	4284.18	4706.57	4139.27	3902.94	3829.84	4034.87	4183.52	4680.72	
G54	4494.66	4111.27	4458.96	3947.02	3708.09	3672.27	3859.35	3983.7	4494.66	
G55	4299.2	3942.43	4264.93	3771.39	3474.94	3537.66	3680.13	3807.16	4299.2	
G56	4124.13	3795.16	4037.92	3573.07	3223.22	3383.47	3509.66	3646.79	4124.13	
G57	3952.11	3625.13	3865.05	3419.21	2983.63	3234.9	3324.78	3521.09	3952.11	
G58	3791.13	3479.53	3666.08	3298.89	2819.92	3156.14	3145.6	3385.75	3791.13	
G59	3565.75	3366.5	3482.18	3144.82	2675.3	2997.55	2916.31	3243.82	3565.75	
G60	3346.39	3229.65	3303.65	2992.87	2576.1	2896.16	2708.76	3139.98	3346.39	
G61	3147.75	3150.03	3143.93	2877.8	2494.0	2816.05	2551.92	3029.71	3147.75	
G62	2987.99	2998.9	2894.21	2730.37	2436.12	2689.06	2459.89	2917.33	2987.99	
G63	2832.82	2901.0	2649.53	2636.87	2337.49	2628.37	2336.76	2819.64	2832.82	
G64	2740.14	2814.55	2502.79	2540.4	2295.65	2505.56	2296.62	2717.83	2740.14	
G65	2684.58	2715.72	2402.42	2456.47	2175.37	2465.87	2194.42	2633.74	2684.58	
G66	2635.08	2637.61	2330.45	2341.97	2175.73	2342.99	2131.57	2536.58	2635.08	
G67	2562.06	2531.77	2276.52	2282.74	2027.32	2304.07	2055.74	2477.76	2562.06	
G68	2478.9	2477.23	2193.24	2158.92	1988.65	2166.0	2003.31	2344.21	2478.9	
G69	2406.93	2343.52	2182.08	2055.53	1876.11	2073.36	1870.08	2280.71	2406.93	
G70	2326.87	2275.54	2045.48	1947.26	1846.88	1929.27	1819.57	2152.08	2326.87	
G71	2266.91	2141.91	1996.43	1843.99	1720.37	1769.95	1691.59	2025.09	2266.91	
G72	2140.12	2002.82	1856.24	1679.42	1677.39	1598.1	1602.7	1876.03	2140.12	
G73	2047.15	1843.3	1761.69	1507.0	1565.08	1464.75	1511.23	1711.95	2047.15	

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