

Report No.:

Test Time: 2023/11/1 9:00:00

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: 路灯头100W 高P
 Lamp Type:
 Luminous Width: 0 mm
 Luminous Length: 0 mm
 Luminous Height: 0 mm

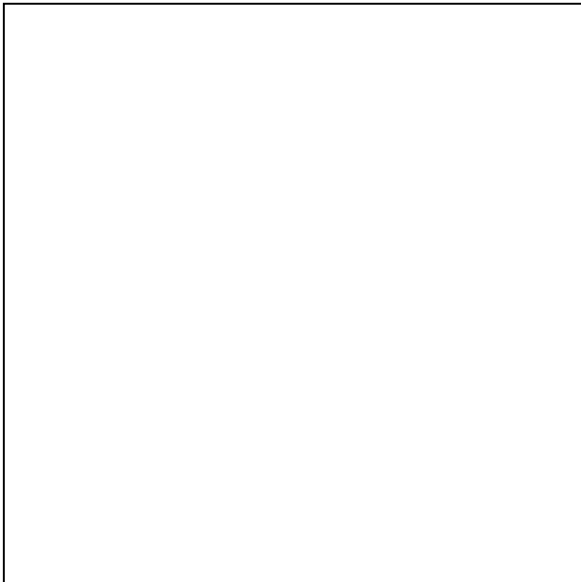
Voltage(V): 220.10 V
 Current(A): 0.4460 A
 Power(W): 96.17 W
 Power Factor: 0.9780
 Lamp Luminous Flux: 9102.89

Photometric Results

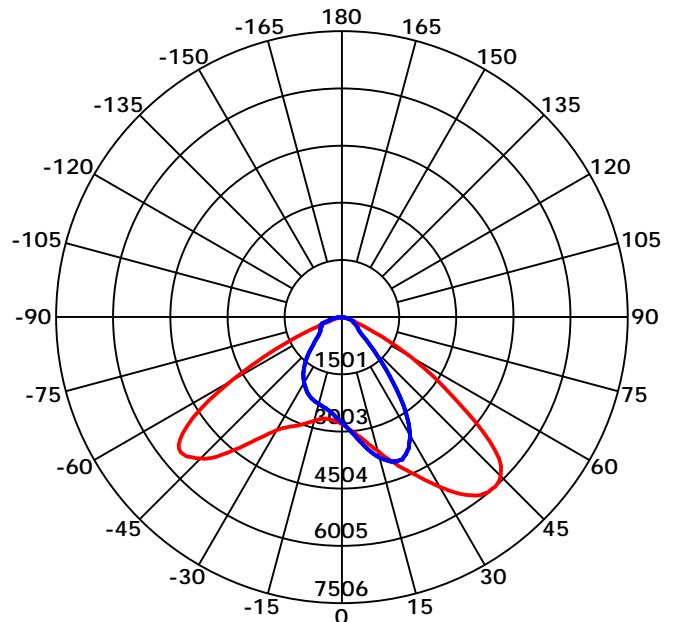
CIE Class: Direct
 Luminaire Luminous Flux: 9102.885 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 94.65 lm/W
 Beam Angle(50%) C0-180,C90-270: 117.4,67.7
 Field Angle(10%) C0-180,C90-270: 136.8,136.8
 S/MH C0-180,C90-270: 2.384,1.349

Max. Intensity: 6005.10 cd
 Max.Intensity Angle: C=0 Gamma=42
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 2815.61 cd
 Effective Luminous Flux: 8468.43 lm
 ERP(φ use)(120deg): 8129.67 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 117.4 deg,67.7 deg

C0-180 ——— C90-270 ———

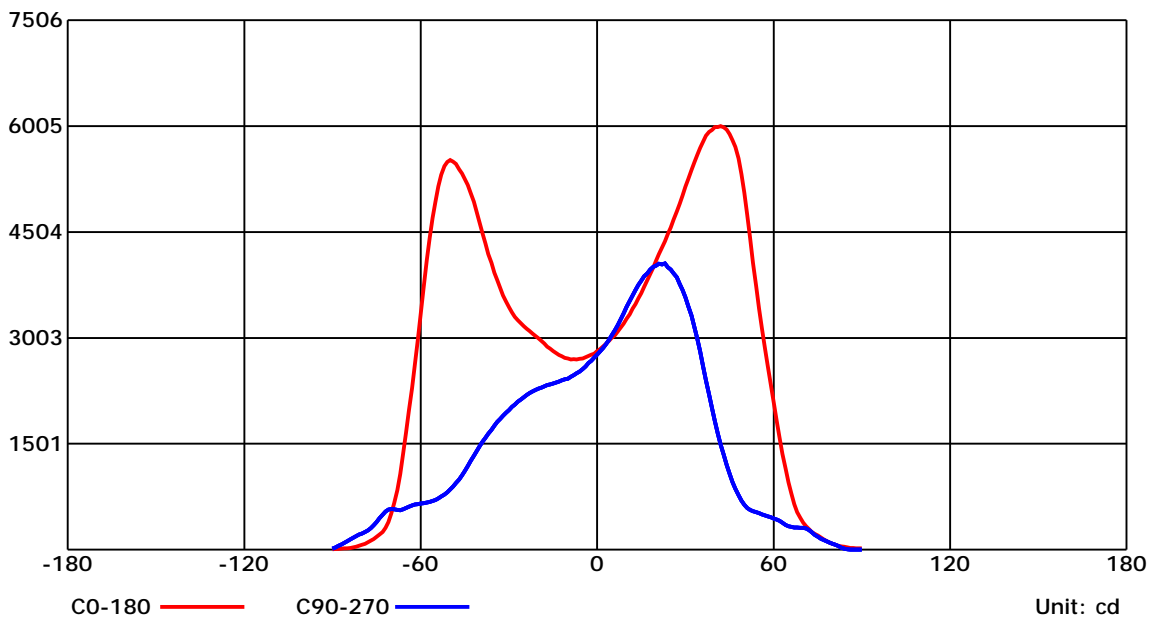
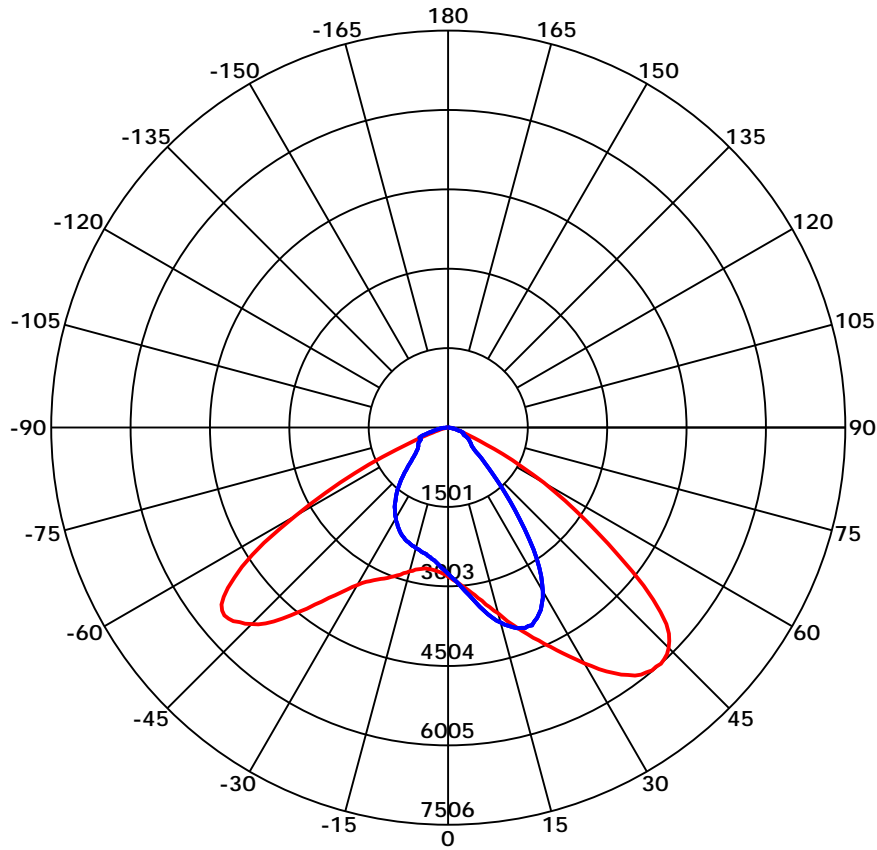
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.3 m
 Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

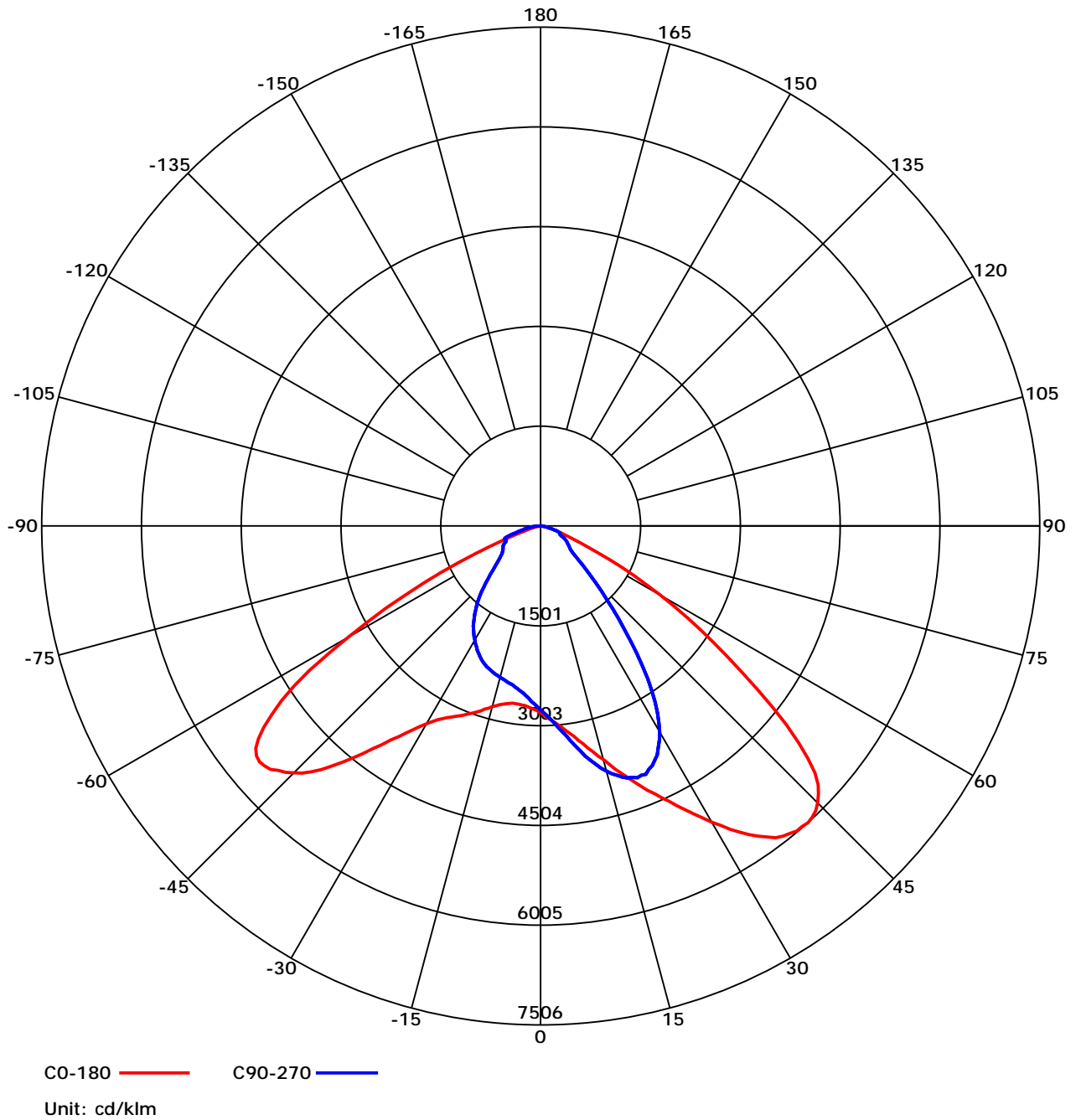
Test Distance: 6.3 m

Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.3 m
 Remarks:

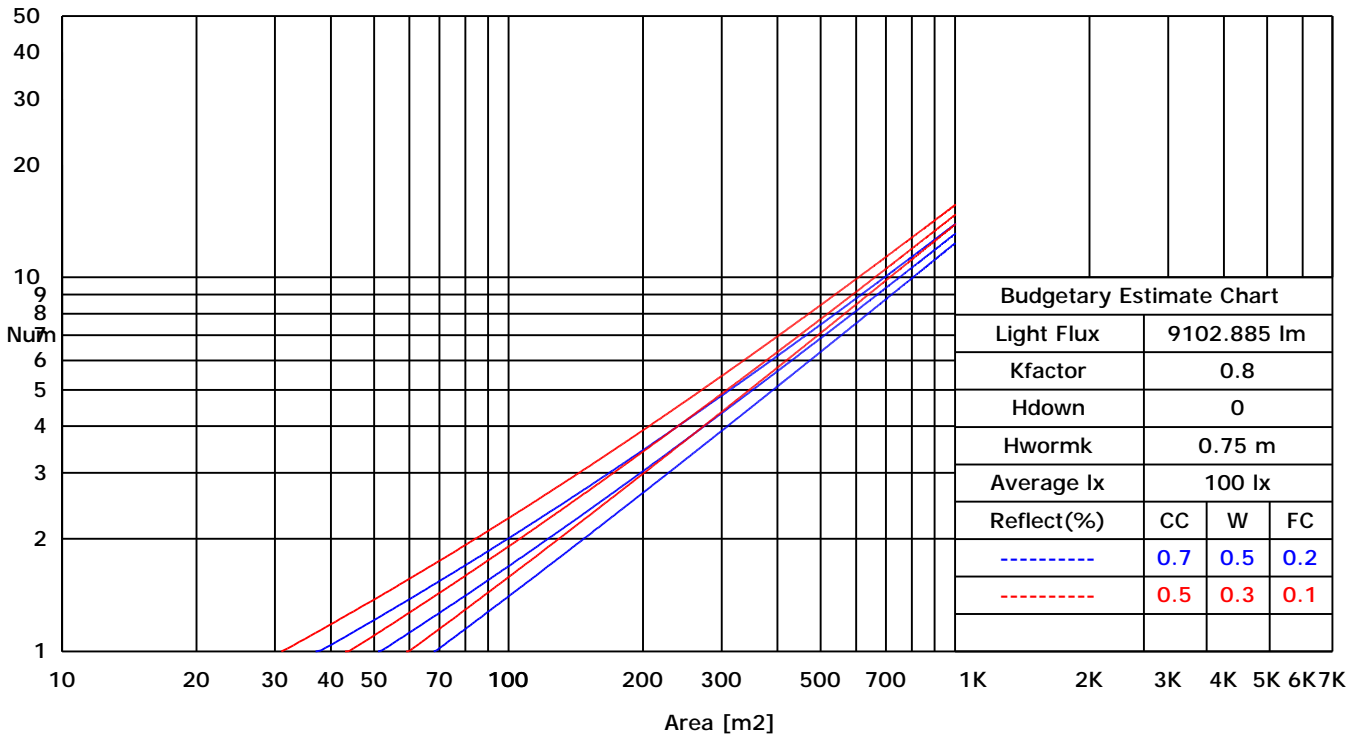
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Test Time: 2023/11/1 9:00:00

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	1.09	1.08	1.07	1.08	1.06	1.05	1.04	1.02	1.00	0.98	0.97	0.95	0.92	0.90	0.88	0.83
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	0.90	0.88	0.86	0.89	0.87	0.85	0.87	0.84	0.81	0.83	0.80	0.77	0.79	0.75	0.72	0.68
4	0.82	0.80	0.78	0.81	0.79	0.77	0.80	0.76	0.73	0.77	0.73	0.70	0.74	0.69	0.65	0.61
5	0.75	0.73	0.71	0.74	0.72	0.70	0.73	0.69	0.67	0.71	0.67	0.63	0.69	0.64	0.60	0.56
6	0.69	0.66	0.65	0.68	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.58	0.64	0.59	0.55	0.51
7	0.63	0.61	0.60	0.63	0.60	0.59	0.63	0.59	0.56	0.62	0.57	0.53	0.60	0.55	0.50	0.47
8	0.59	0.57	0.55	0.59	0.56	0.54	0.58	0.54	0.52	0.58	0.53	0.49	0.56	0.51	0.47	0.43
9	0.54	0.53	0.51	0.55	0.52	0.50	0.54	0.51	0.48	0.54	0.49	0.46	0.53	0.47	0.43	0.40
10	0.51	0.49	0.48	0.51	0.48	0.47	0.51	0.47	0.45	0.51	0.46	0.43	0.50	0.44	0.40	0.37

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



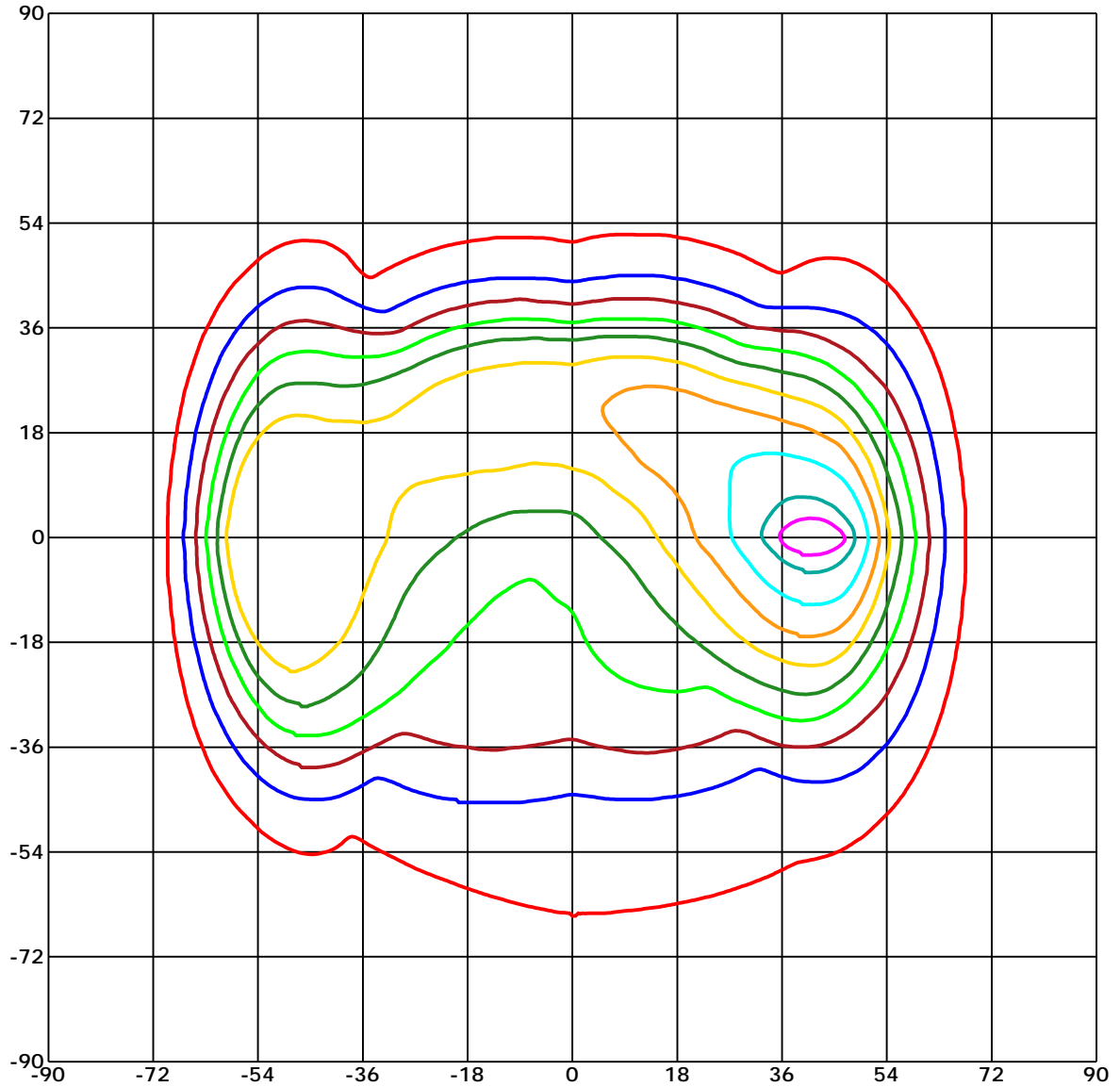
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.3 m
 Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 6005.098 cd

- | | |
|----------------------------------|----------------------------------|
| — 5704.843(95%I _{max}) | — 3002.549(50%I _{max}) |
| — 5404.588(90%I _{max}) | — 2402.039(40%I _{max}) |
| — 4804.078(80%I _{max}) | — 1801.529(30%I _{max}) |
| — 4203.568(70%I _{max}) | — 1201.02(20%I _{max}) |
| — 3603.059(60%I _{max}) | — 600.51(10%I _{max}) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

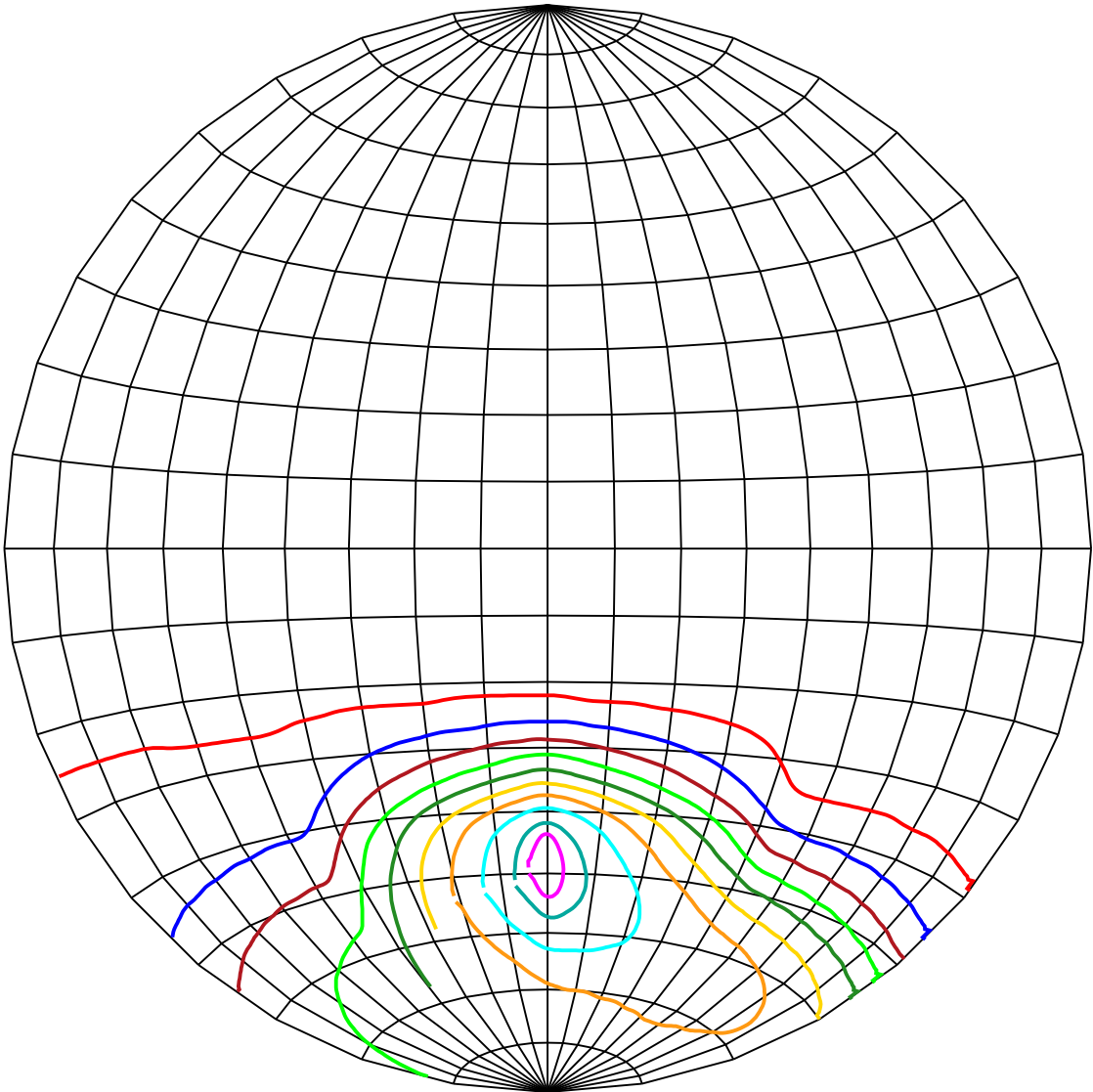
Test Distance: 6.3 m

Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 6005.098 cd

- | | |
|----------------------------------|----------------------------------|
| — 5704.843(95%I _{max}) | — 3002.549(50%I _{max}) |
| — 5404.588(90%I _{max}) | — 2402.039(40%I _{max}) |
| — 4804.078(80%I _{max}) | — 1801.529(30%I _{max}) |
| — 4203.568(70%I _{max}) | — 1201.02(20%I _{max}) |
| — 3603.059(60%I _{max}) | — 600.51(10%I _{max}) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

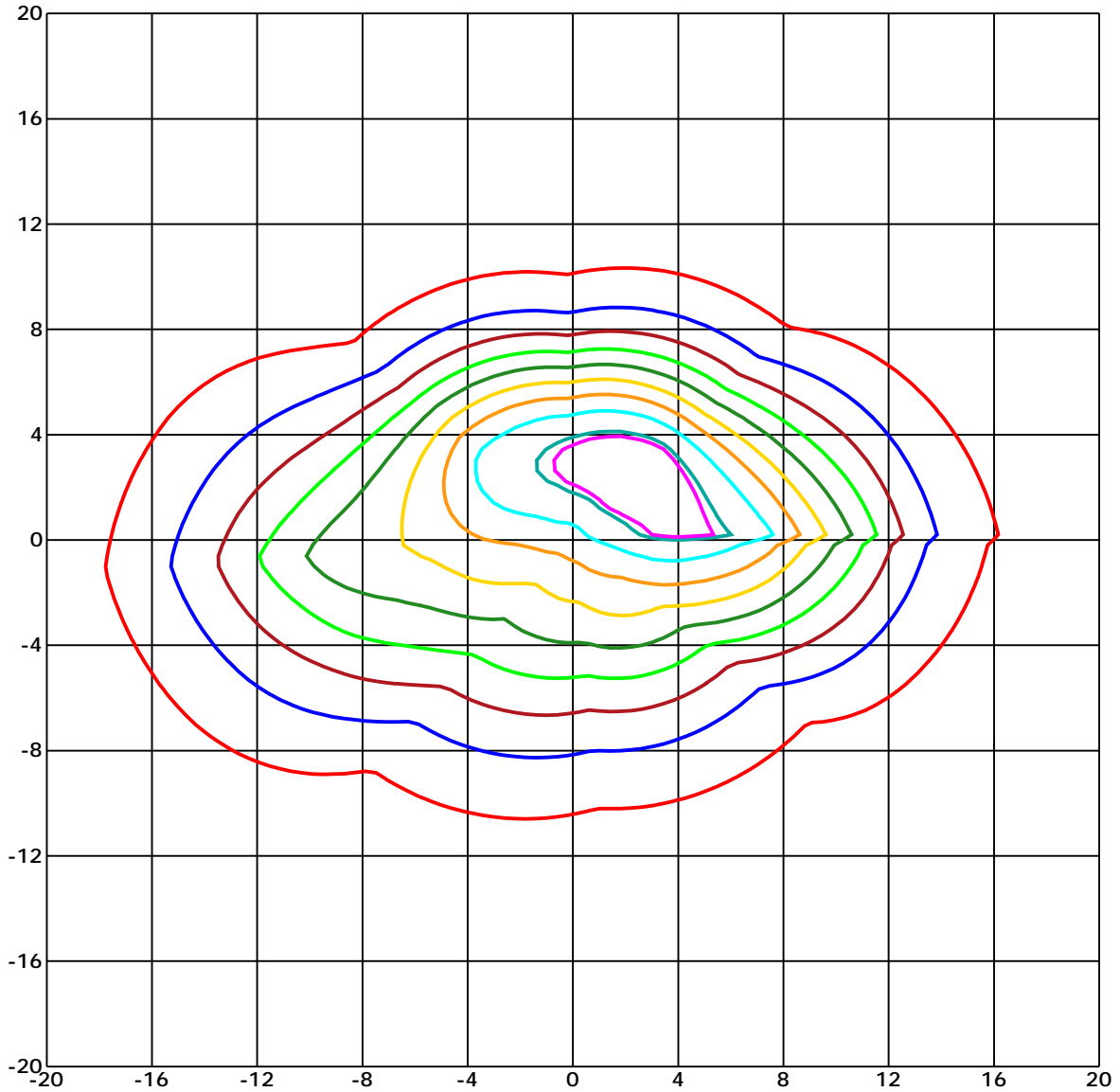
Test Distance: 6.3 m

Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

ISOLX DIAGRAM



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

- | | |
|-------------------|-------------------|
| — 33.753(92%Emax) | — 18.344(50%Emax) |
| — 33.019(90%Emax) | — 14.675(40%Emax) |
| — 29.351(80%Emax) | — 11.006(30%Emax) |
| — 25.682(70%Emax) | — 7.338(20%Emax) |
| — 22.013(60%Emax) | — 3.669(10%Emax) |

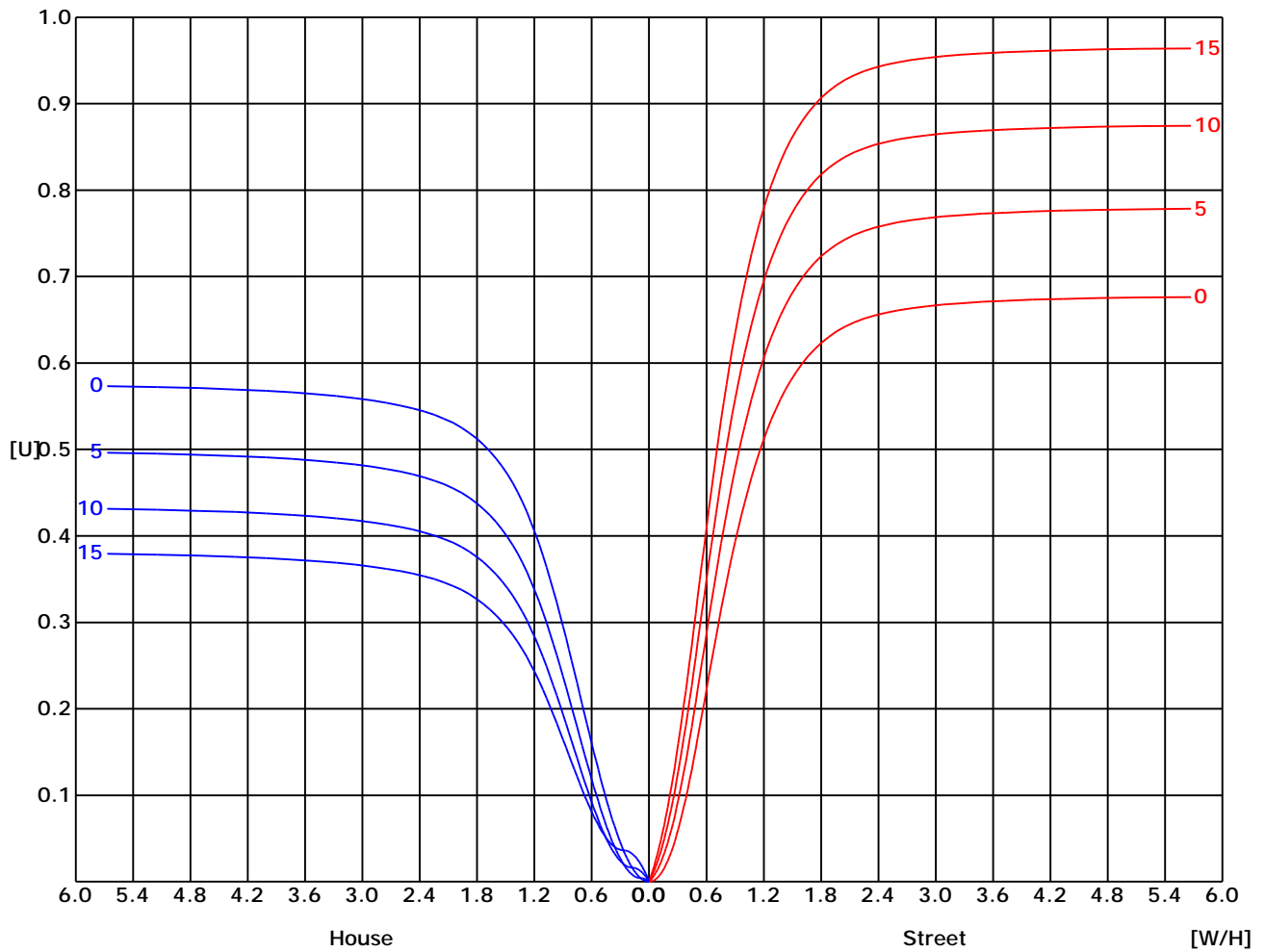
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.3 m
 Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/11/1 9:00:00

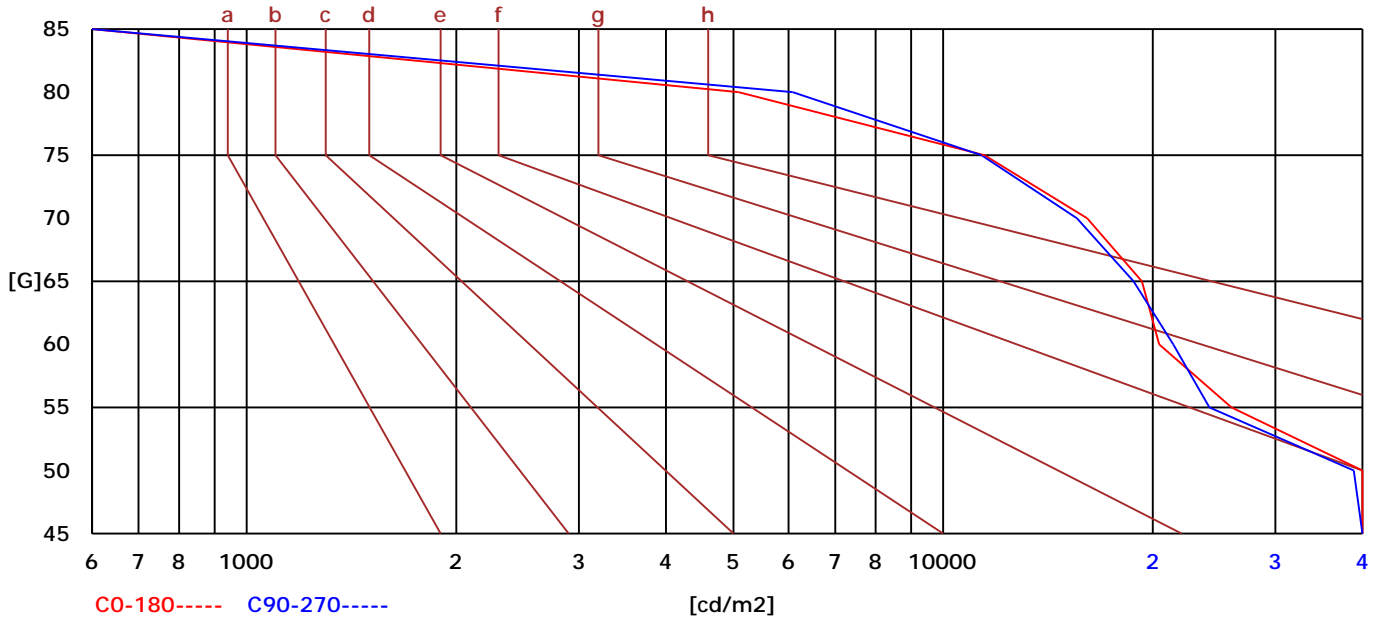
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.3 m
 Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	69148	43112	25951	20426	19290	16096	11463	5086	68
C90	63883	38842	24105	21391	18769	15565	11356	6080	216
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



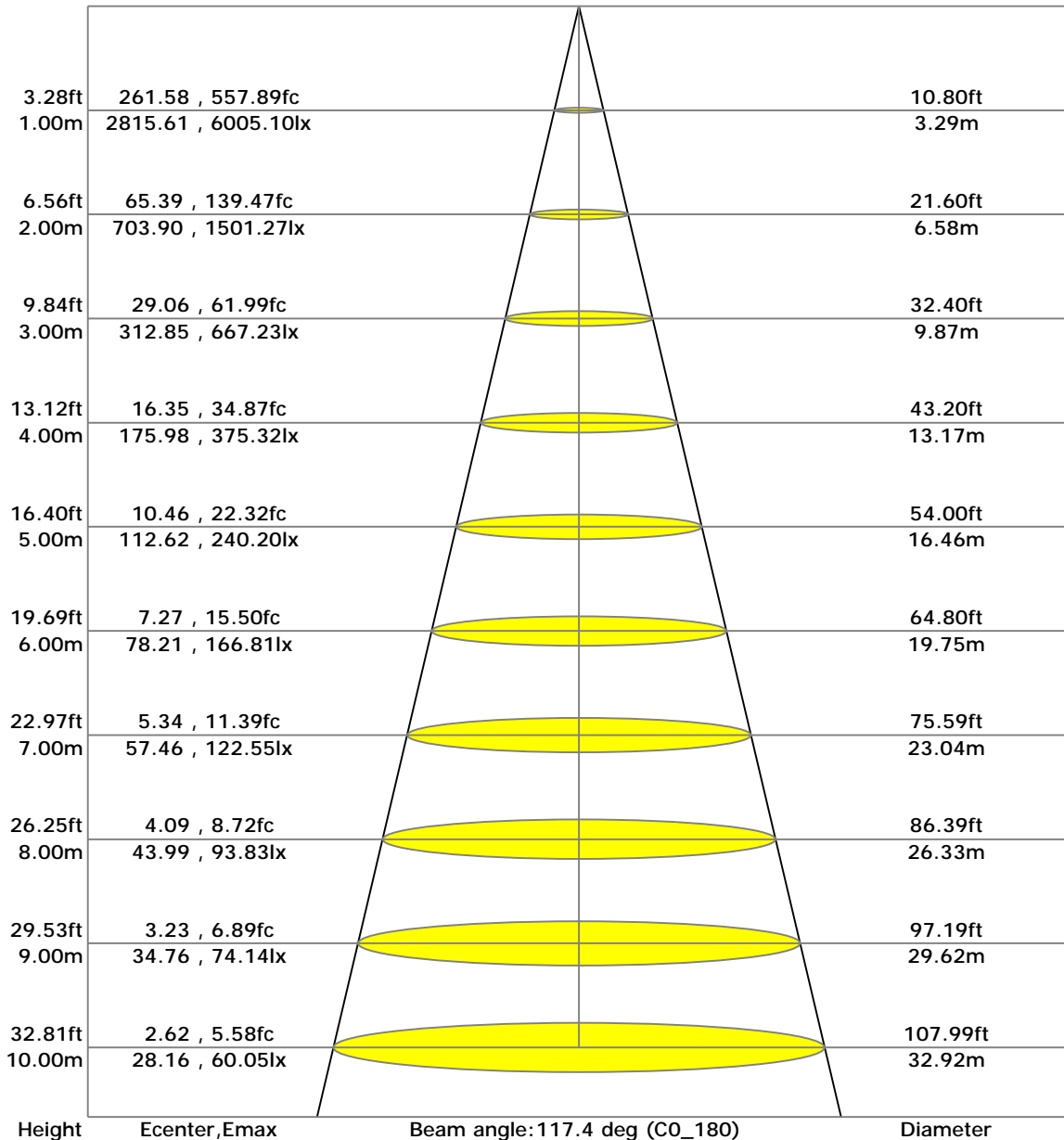
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.3 m
 Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

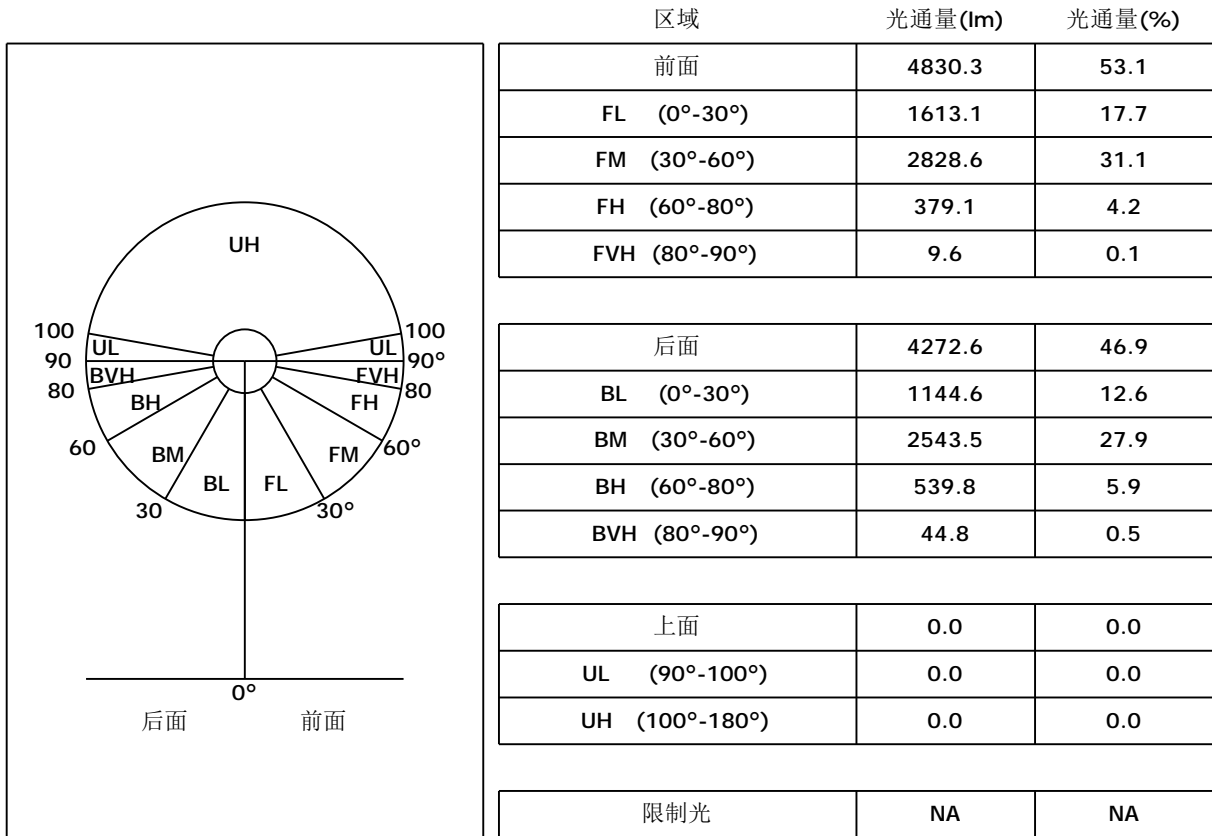
Test Distance: 6.3 m

Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

BUG等级评价表



BUG评价等级(基于TM-15-07)	
非对称灯具 (Type I , II , III , IV)	B3 U0 G2
对称灯具 (Type V , Area Light)	B3 U0 G1

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.3 m
 Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

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	17.59	17.66	17.79	17.84	18.09	14.16	14.23	14.36	14.42	14.66
	3H	17.55	17.62	17.76	17.81	18.06	14.19	14.26	14.40	14.45	14.70
	4H	17.53	17.59	17.74	17.79	18.04	14.17	14.24	14.38	14.43	14.68
	6H	17.50	17.56	17.72	17.77	18.02	14.14	14.21	14.36	14.41	14.66
	8H	17.49	17.55	17.71	17.75	18.01	14.13	14.19	14.35	14.40	14.65
	12H	17.47	17.53	17.69	17.74	17.99	14.11	14.18	14.34	14.38	14.64
4H	2H	18.08	18.15	18.30	18.35	18.60	14.68	14.75	14.89	14.95	15.19
	3H	18.06	18.12	18.28	18.33	18.58	14.75	14.81	14.97	15.02	15.27
	4H	18.04	18.09	18.27	18.31	18.57	14.73	14.79	14.96	15.01	15.26
	6H	18.00	18.06	18.24	18.28	18.54	14.70	14.76	14.94	14.98	15.24
	8H	17.99	18.04	18.23	18.26	18.53	14.69	14.74	14.93	14.96	15.23
	12H	17.97	18.02	18.21	18.25	18.52	14.67	14.72	14.92	14.95	15.22
8H	4H	18.08	18.15	18.30	18.35	18.60	14.74	14.80	14.96	15.00	15.26
	6H	18.00	18.04	18.25	18.28	18.56	14.77	14.81	15.02	15.05	15.33
	8H	17.98	18.02	18.24	18.27	18.54	14.75	14.79	15.01	15.04	15.31
	12H	17.96	17.99	18.22	18.25	18.53	14.73	14.77	15.00	15.02	15.30
12H	4H	18.02	18.07	18.27	18.30	18.57	14.78	14.83	15.03	15.07	15.33
	6H	17.99	18.03	18.25	18.27	18.55	14.75	14.79	15.01	15.04	15.31

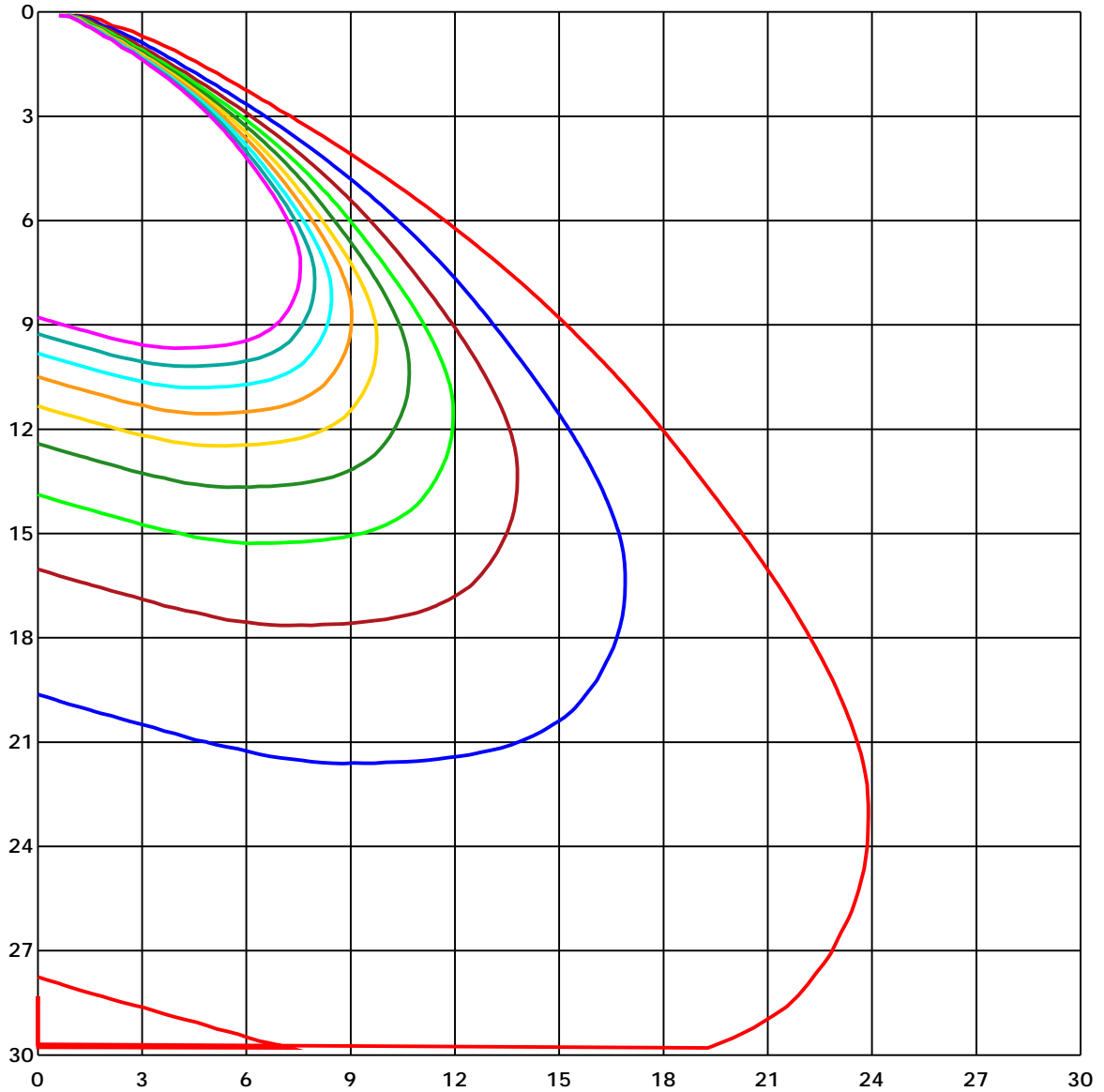
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.3 m
 Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|----------|----------|
| — 36.548 | — 18.274 |
| — 32.893 | — 14.619 |
| — 29.238 | — 10.964 |
| — 25.583 | — 7.31 |
| — 21.929 | — 3.655 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.3 m

Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2815.61	2764.25	2764.85	2810.37	2815.61	2764.25	2764.85	2810.37	2815.61	
G1	2846.01	2826.76	2815.65	2821.32	2779.33	2709.6	2722.5	2792.75	2846.01	
G2	2884.27	2888.52	2860.9	2844.46	2763.93	2659.15	2678.52	2785.33	2884.27	
G3	2920.39	2959.56	2914.08	2867.05	2745.04	2618.99	2645.46	2780.05	2920.39	
G4	2958.25	3023.27	2974.37	2900.27	2728.09	2569.25	2598.86	2771.04	2958.25	
G5	3003.38	3090.22	3042.68	2938.41	2712.26	2532.1	2561.95	2763.22	3003.38	
G6	3044.06	3168.41	3114.59	2975.84	2707.1	2489.16	2525.95	2753.3	3044.06	
G7	3097.21	3255.85	3186.23	3018.82	2699.12	2464.0	2503.29	2753.57	3097.21	
G8	3152.14	3335.27	3268.0	3059.66	2699.91	2433.08	2475.03	2752.11	3152.14	
G9	3204.02	3427.11	3351.9	3108.01	2696.58	2409.9	2452.64	2740.67	3204.02	
G10	3273.71	3512.65	3440.65	3172.1	2710.95	2382.15	2425.73	2745.04	3273.71	
G11	3334.87	3619.49	3527.05	3235.69	2721.31	2368.5	2415.93	2744.33	3334.87	
G12	3416.67	3717.96	3603.89	3304.99	2741.47	2348.42	2402.08	2759.05	3416.67	
G13	3483.59	3810.99	3679.86	3375.2	2758.77	2337.58	2384.14	2764.01	3483.59	
G14	3564.44	3901.49	3756.42	3447.91	2789.37	2321.27	2369.3	2766.71	3564.44	
G15	3634.73	4004.56	3814.05	3509.47	2812.79	2311.9	2358.46	2766.31	3634.73	
G16	3725.7	4091.21	3876.36	3578.05	2852.12	2302.46	2341.39	2782.75	3725.7	
G17	3823.66	4169.91	3919.23	3632.27	2878.99	2298.33	2332.7	2781.63	3823.66	
G18	3909.51	4258.22	3971.58	3696.33	2922.81	2292.85	2315.95	2784.65	3909.51	
G19	3995.0	4340.26	4010.36	3742.33	2958.1	2284.8	2298.21	2782.15	3995.0	
G20	4095.41	4403.09	4026.67	3801.59	2995.05	2281.94	2283.37	2780.84	4095.41	
G21	4188.13	4475.96	4054.06	3843.26	3027.99	2279.48	2266.34	2780.17	4188.13	
G22	4285.97	4541.61	4045.05	3921.45	3066.85	2273.64	2241.33	2775.13	4285.97	
G23	4370.62	4577.77	4057.75	3934.31	3101.93	2276.66	2220.5	2761.04	4370.62	
G24	4476.95	4604.32	4005.16	3983.29	3134.36	2270.23	2194.06	2745.04	4476.95	
G25	4568.48	4630.59	3973.76	4017.82	3170.36	2273.05	2163.7	2721.07	4568.48	
G26	4681.6	4632.26	3918.0	4044.49	3208.78	2269.12	2127.78	2701.86	4681.6	
G27	4793.84	4620.75	3862.59	4036.35	3254.86	2267.33	2098.65	2673.92	4793.84	
G28	4904.3	4589.4	3769.08	4029.73	3302.53	2264.79	2055.63	2657.68	4904.3	
G29	5019.99	4535.89	3684.03	4012.98	3362.93	2256.58	2023.75	2611.17	5019.99	
G30	5145.89	4455.48	3578.17	3978.25	3435.29	2240.02	1979.5	2572.71	5145.89	
G31	5256.15	4368.36	3452.55	3919.19	3513.8	2226.05	1943.42	2535.87	5256.15	
G32	5384.78	4259.25	3317.01	3866.52	3606.67	2207.68	1899.96	2492.97	5384.78	
G33	5492.9	4132.4	3156.82	3790.55	3711.53	2196.29	1854.67	2441.57	5492.9	
G34	5597.44	4000.63	2992.79	3691.77	3821.95	2166.04	1811.17	2386.48	5597.44	
G35	5697.9	3856.08	2811.76	3596.63	3926.93	2146.12	1756.52	2324.68	5697.9	
G36	5782.12	3695.62	2603.59	3474.86	4067.19	2113.53	1696.47	2267.93	5782.12	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.3 m

Remarks:

Report No.:

Test Time: 2023/11/1 9:00:00

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	5871.34	3527.41	2400.17	3330.23	4189.24	2083.77	1643.76	2196.33	5871.34	
G38	5922.46	3347.22	2198.75	3181.91	4343.0	2049.59	1585.42	2124.77	5922.46	
G39	5951.99	3165.24	2005.1	3012.75	4486.0	2003.19	1529.49	2050.31	5951.99	
G40	5991.96	2966.23	1820.98	2826.4	4635.75	1953.82	1465.04	1970.29	5991.96	
G41	5989.82	2760.52	1649.72	2632.08	4783.6	1903.22	1397.09	1887.46	5989.82	
G42	6005.1	2566.32	1488.45	2430.62	4933.79	1842.65	1329.22	1800.42	6005.1	
G43	5986.36	2351.83	1338.43	2215.46	5057.78	1776.25	1259.32	1712.94	5986.36	
G44	5953.54	2147.07	1199.59	2002.92	5169.54	1710.96	1187.13	1625.5	5953.54	
G45	5892.14	1955.8	1075.48	1806.89	5252.1	1640.79	1117.79	1538.82	5892.14	
G46	5805.66	1764.14	960.42	1623.52	5333.38	1563.59	1054.48	1450.31	5805.66	
G47	5708.65	1593.47	861.79	1454.48	5390.54	1488.06	996.85	1366.96	5708.65	
G48	5548.94	1417.05	774.59	1289.85	5469.12	1410.31	943.39	1286.83	5548.94	
G49	5323.22	1259.76	696.32	1134.18	5500.12	1326.72	896.32	1206.7	5323.22	
G50	5059.8	1108.46	634.84	998.68	5522.27	1246.98	852.7	1131.76	5059.8	
G51	4750.14	978.8	592.33	876.32	5498.97	1165.62	813.92	1061.31	4750.14	
G52	4420.87	862.15	564.55	769.43	5437.29	1086.91	780.98	998.16	4420.87	
G53	4067.47	756.29	546.61	678.5	5317.35	1012.97	753.28	939.86	4067.47	
G54	3735.62	666.59	531.53	607.02	5150.29	936.29	726.96	884.69	3735.62	
G55	3418.26	595.39	518.63	553.04	4932.79	869.37	706.88	836.23	3418.26	
G56	3137.73	539.55	499.74	510.25	4701.32	803.48	690.88	797.05	3137.73	
G57	2869.11	491.04	485.77	480.49	4421.39	743.59	679.06	761.02	2869.11	
G58	2611.64	455.72	473.5	460.05	4109.03	688.42	667.31	731.25	2611.64	
G59	2334.53	430.4	459.65	444.37	3711.69	641.07	660.04	704.46	2334.53	
G60	2083.73	408.53	442.03	427.82	3343.84	599.72	653.5	682.63	2083.73	
G61	1831.06	392.1	426.55	405.08	2980.4	567.69	647.11	661.43	1831.06	
G62	1588.35	377.13	407.54	380.83	2637.6	542.01	639.84	641.35	1588.35	
G63	1358.83	360.82	381.58	356.73	2293.92	519.03	627.3	618.25	1358.83	
G64	1147.68	343.08	352.01	337.4	1970.45	496.76	611.07	592.41	1147.68	
G65	955.26	326.09	333.4	317.28	1659.28	479.1	590.83	566.77	955.26	
G66	794.12	308.19	321.21	296.92	1361.76	459.65	572.77	545.1	794.12	
G67	645.12	291.25	315.58	273.62	1072.31	443.73	561.57	523.71	645.12	
G68	531.93	269.02	313.04	252.79	847.5	428.41	563.2	503.15	531.93	
G69	448.26	245.56	310.97	232.7	660.64	410.83	572.77	482.11	448.26	
G70	383.6	220.2	308.99	212.94	513.87	389.91	576.14	462.98	383.6	
G71	330.46	198.89	300.77	193.65	392.57	369.99	569.75	441.08	330.46	
G72	289.5	179.08	279.7	174.72	308.43	352.21	543.16	419.68	289.5	
G73	252.87	157.25	247.98	153.44	250.72	333.2	498.15	395.51	252.87	

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/11/1 9:00:00

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.3 m
 Remarks:

