

Report No.:

Test Time: 2024/7/15 17:10:18

## LUMINAIRE PHOTOMETRIC TEST REPORT

### Luminaire Property

Manufacturer: 0  
 Luminaire Type: G45 4W  
 Lamp Type:  
 Luminous Width: 0 mm  
 Luminous Length: 0 mm  
 Luminous Height: 0 mm

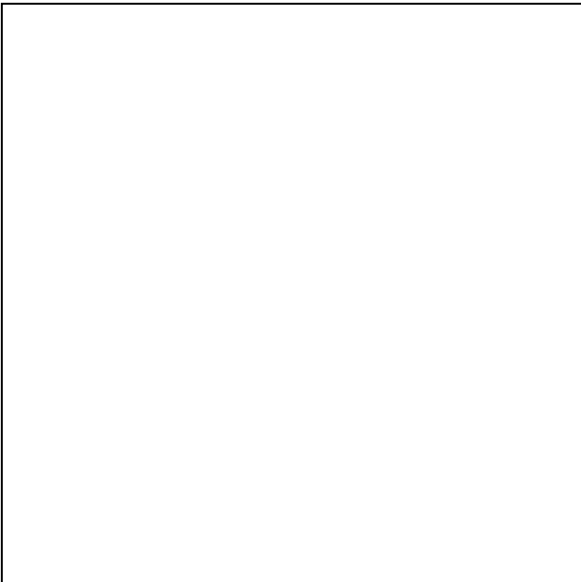
Voltage(V): 219.10 V  
 Current(A): 0.0320 A  
 Power(W): 3.80 W  
 Power Factor: 0.5390  
 Lamp Luminous Flux: 272.44

### Photometric Results

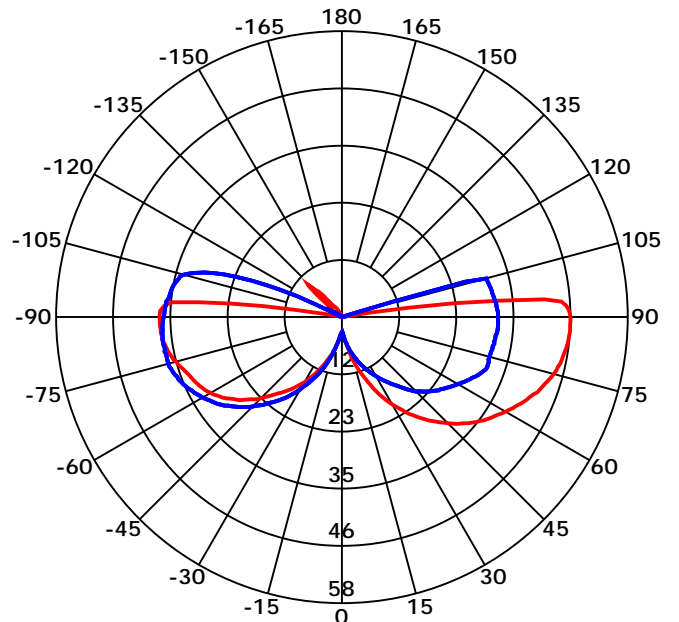
CIE Class: Direct  
 Luminaire Luminous Flux: 272.4407 lm  
 Downward Ratio: 66.71%  
 Luminaire Efficacy Rating(LER): 71.69 lm/W  
 Beam Angle(50%) C0-180,C90-270: 193.9,218.9  
 Field Angle(10%) C0-180,C90-270: 239.3,224.6  
 S/MH C0-180,C90-270: 5.495,5.210

Max. Intensity: 46.17 cd  
 Max.Intensity Angle: C=0 Gamma=90  
 Upward Ratio: 33.29%  
 Efficacy: 100.00%  
 Center Intensity: 2.93 cd  
 Effective Luminous Flux: 269.90 lm  
 ERP( $\varphi$ use)(120deg): 68.10 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 193.9 deg,218.9 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.25

Operators:

Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1.18

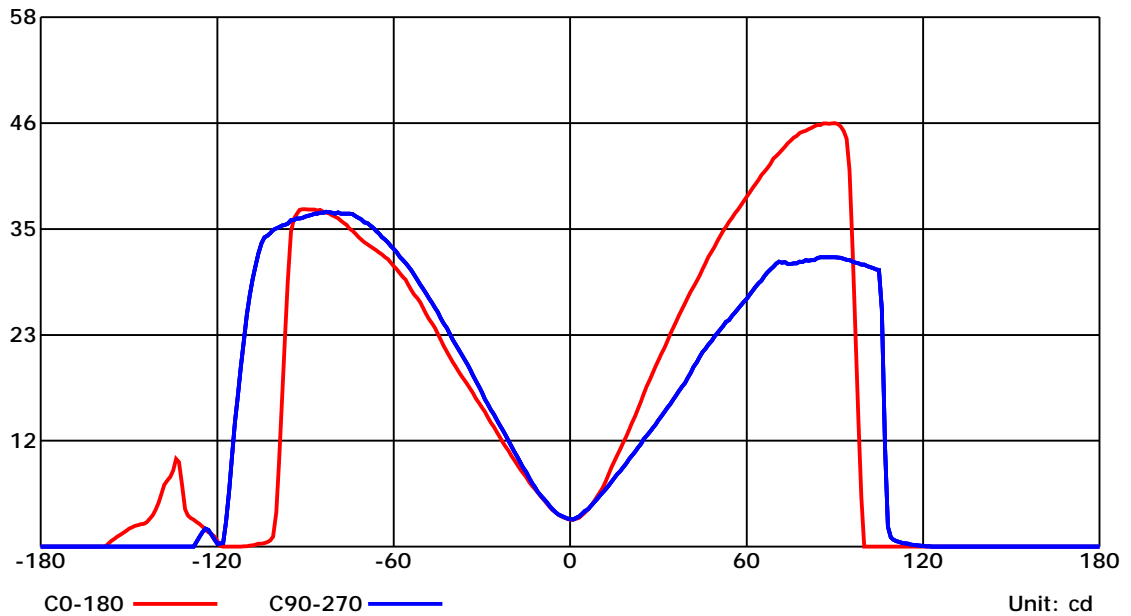
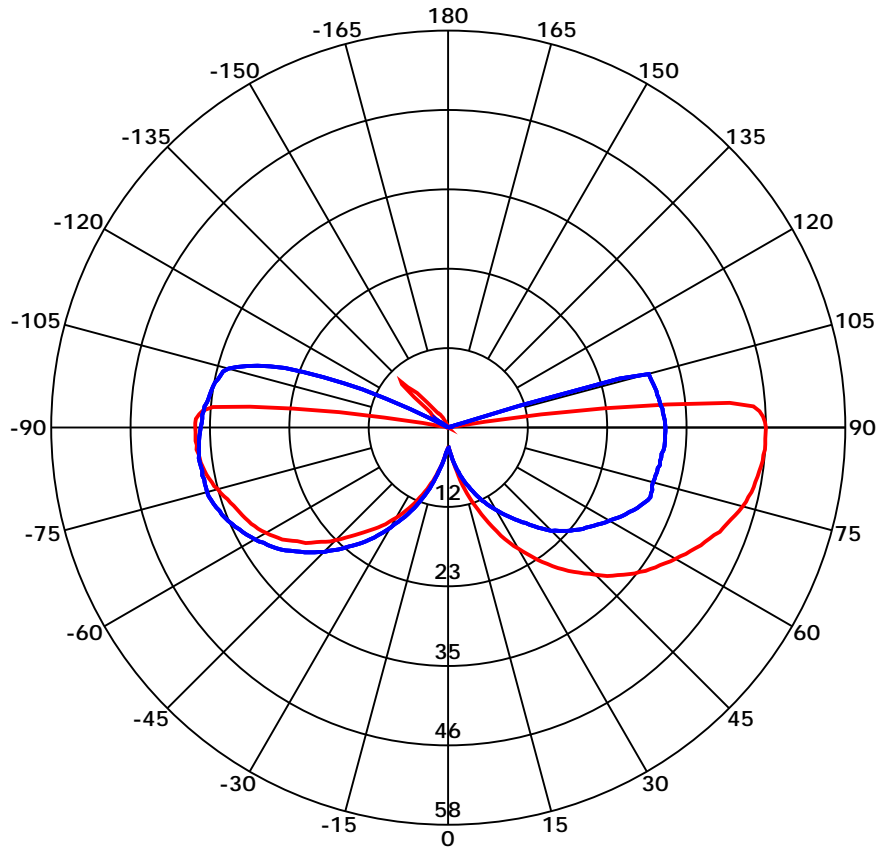
Test Distance: 6.25 m

Remarks:

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## Luminous Intensity Distribution Curve



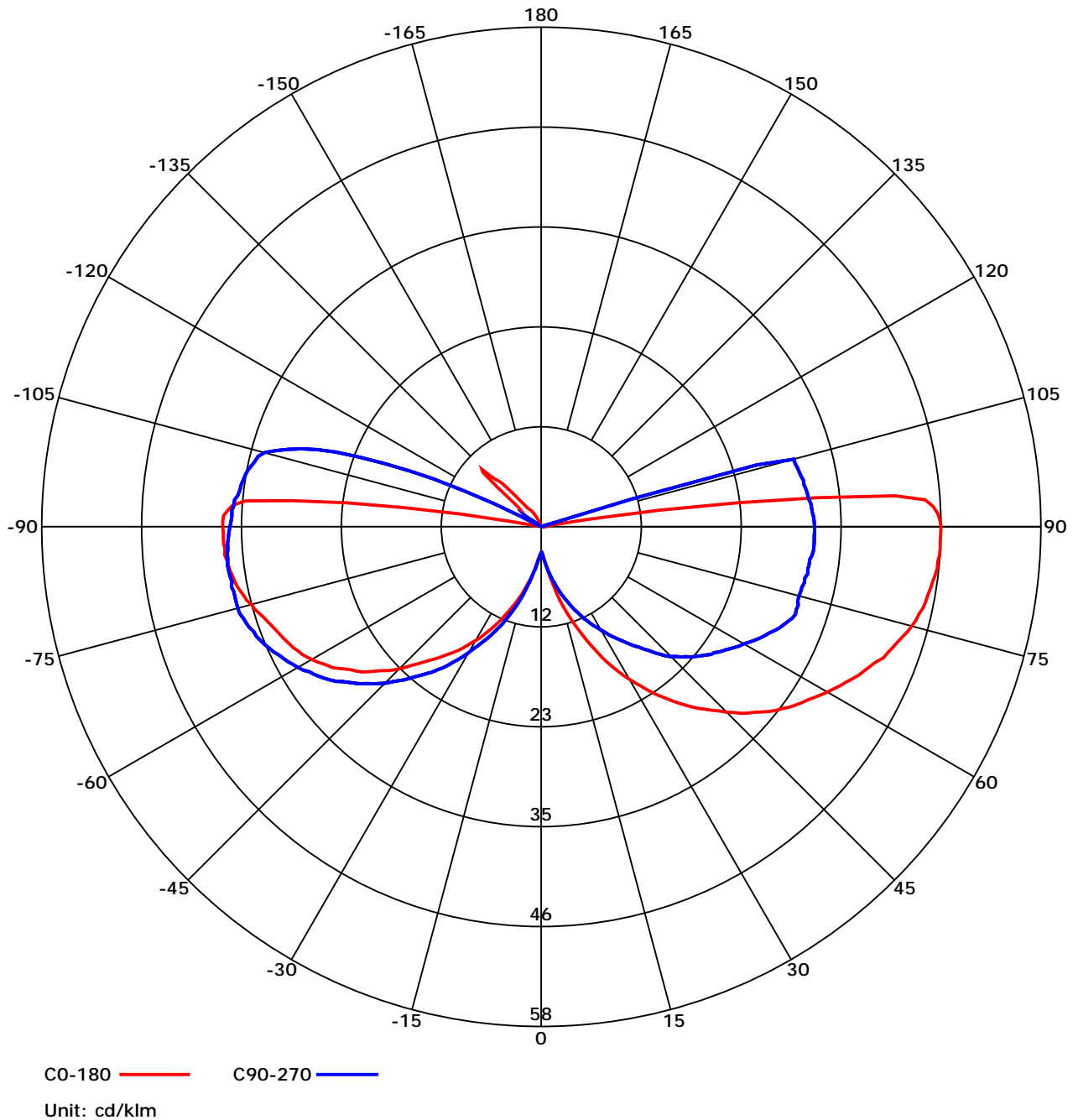
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 6.25  
 Operators:  
 Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
 Humidity: 1.18  
 Test Distance: 6.25 m  
 Remarks:

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## Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.25

Operators:

Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1.18

Test Distance: 6.25 m

Remarks:

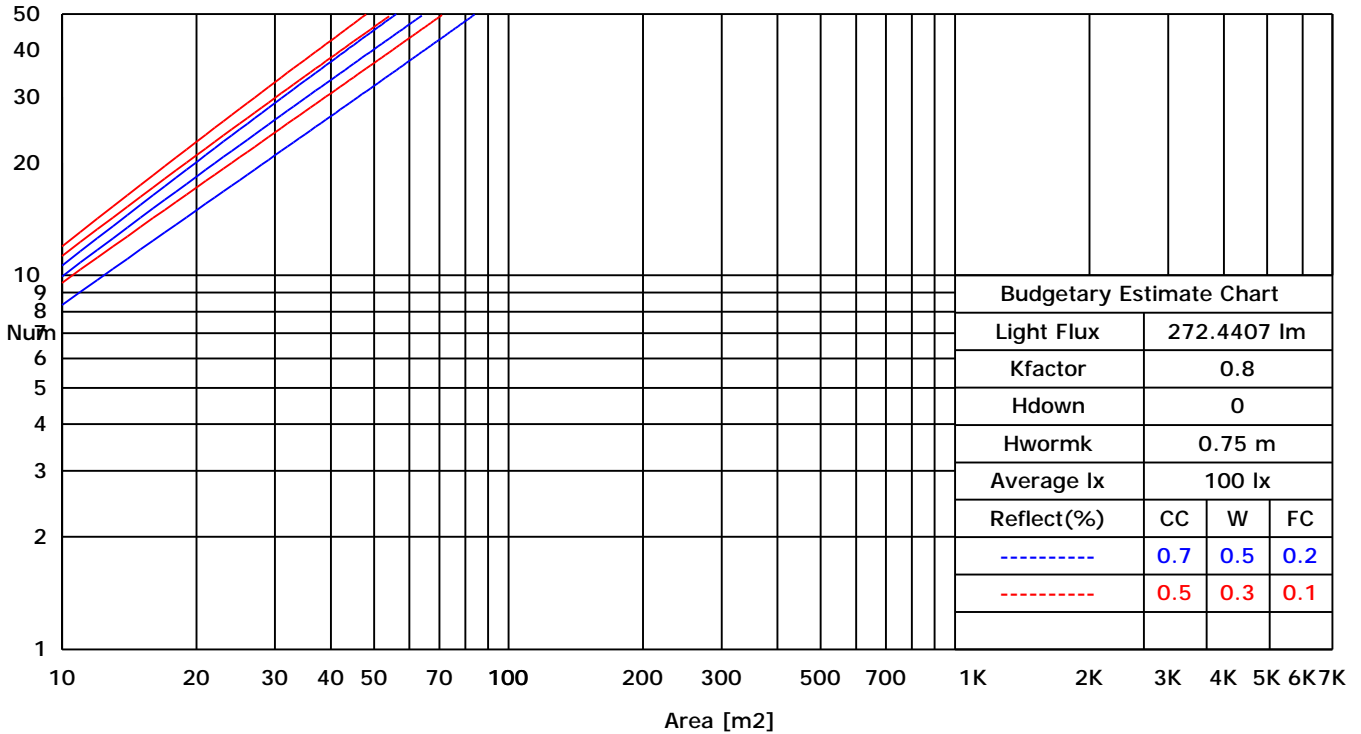
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### UTILIZATION FACTORS TABLE

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	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	0.94	0.91	0.89	0.93	0.90	0.88	0.90	0.87	0.84	0.86	0.83	0.80	0.81	0.77	0.74	0.69
2	0.79	0.76	0.74	0.79	0.75	0.72	0.78	0.73	0.70	0.75	0.70	0.66	0.71	0.66	0.62	0.57
3	0.70	0.66	0.64	0.70	0.66	0.63	0.69	0.64	0.61	0.68	0.62	0.58	0.65	0.59	0.54	0.50
4	0.63	0.60	0.58	0.64	0.60	0.57	0.64	0.59	0.55	0.63	0.57	0.52	0.61	0.54	0.49	0.45
5	0.59	0.56	0.54	0.59	0.56	0.53	0.59	0.55	0.51	0.59	0.53	0.49	0.57	0.51	0.46	0.42
6	0.55	0.53	0.51	0.56	0.52	0.50	0.56	0.51	0.48	0.56	0.50	0.46	0.55	0.48	0.43	0.40
7	0.53	0.51	0.49	0.53	0.50	0.48	0.54	0.49	0.46	0.53	0.48	0.44	0.53	0.46	0.42	0.38
8	0.51	0.49	0.47	0.51	0.48	0.46	0.52	0.47	0.44	0.52	0.46	0.42	0.51	0.45	0.40	0.37
9	0.49	0.47	0.46	0.50	0.47	0.45	0.50	0.46	0.43	0.50	0.45	0.41	0.49	0.44	0.39	0.36
10	0.48	0.46	0.45	0.49	0.46	0.44	0.49	0.45	0.42	0.49	0.44	0.40	0.48	0.42	0.38	0.35

### LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



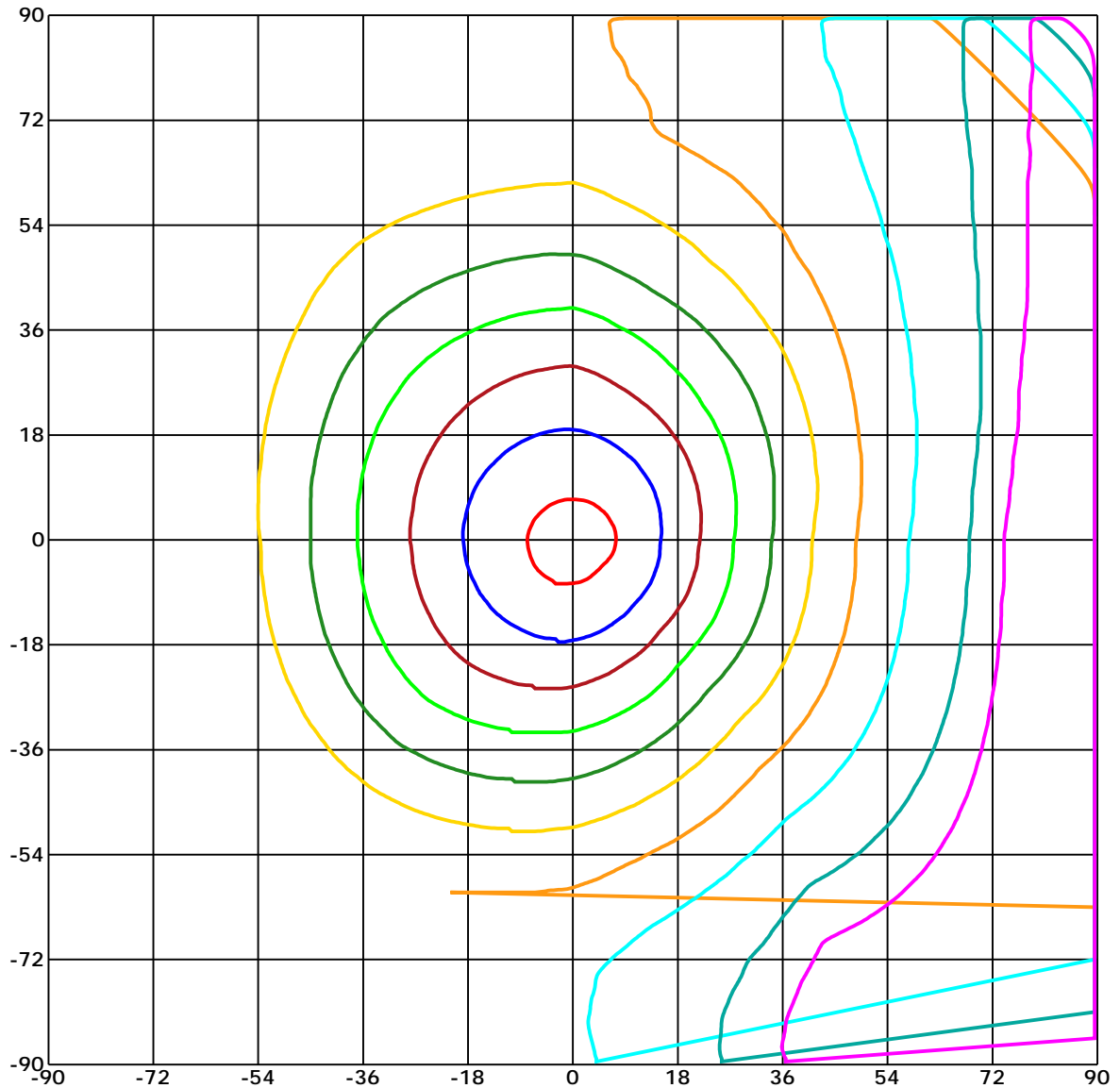
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 6.25  
 Operators:  
 Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
 Humidity: 1.18  
 Test Distance: 6.25 m  
 Remarks:

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Test Time: 2024/7/15 17:10:18

## ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd    I<sub>max</sub>(100%): 46.172 cd

- |                                |                                |
|--------------------------------|--------------------------------|
| — 43.863(95%I <sub>max</sub> ) | — 23.086(50%I <sub>max</sub> ) |
| — 41.555(90%I <sub>max</sub> ) | — 18.469(40%I <sub>max</sub> ) |
| — 36.938(80%I <sub>max</sub> ) | — 13.852(30%I <sub>max</sub> ) |
| — 32.32(70%I <sub>max</sub> )  | — 9.234(20%I <sub>max</sub> )  |
| — 27.703(60%I <sub>max</sub> ) | — 4.617(10%I <sub>max</sub> )  |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.25

Operators:

Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1.18

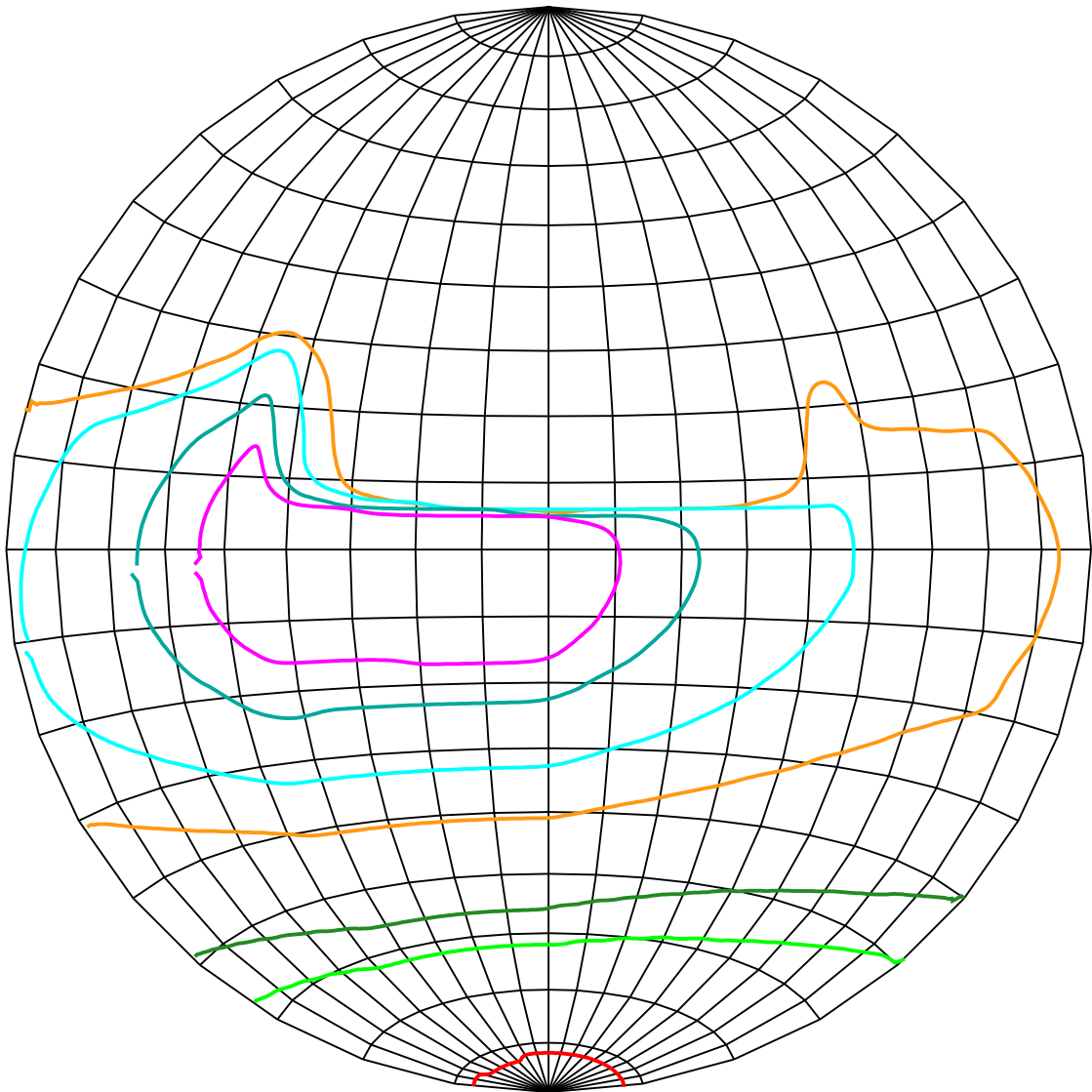
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/7/15 17:10:18

## ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd    I<sub>max</sub>(100%): 46.172 cd

— 43.863(95%I <sub>max</sub> )	— 23.086(50%I <sub>max</sub> )
— 41.555(90%I <sub>max</sub> )	— 18.469(40%I <sub>max</sub> )
— 36.938(80%I <sub>max</sub> )	— 13.852(30%I <sub>max</sub> )
— 32.32(70%I <sub>max</sub> )	— 9.234(20%I <sub>max</sub> )
— 27.703(60%I <sub>max</sub> )	— 4.617(10%I <sub>max</sub> )

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.25

Operators:

Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1.18

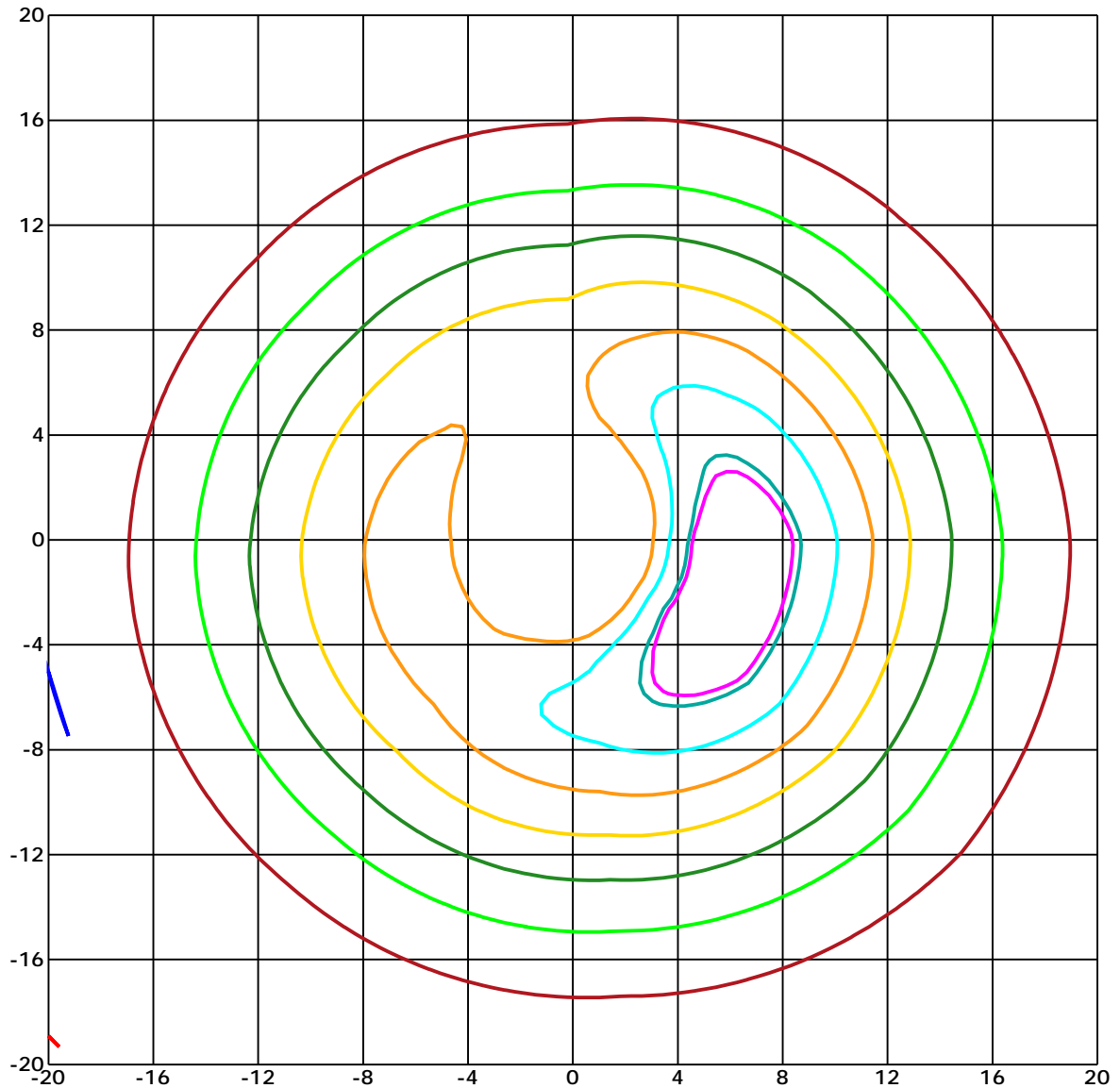
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/7/15 17:10:18

## ISOLX DIAGRAM



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

- |                  |                  |
|------------------|------------------|
| — 0.122(92%Emax) | — 0.066(50%Emax) |
| — 0.119(90%Emax) | — 0.053(40%Emax) |
| — 0.106(80%Emax) | — 0.04(30%Emax)  |
| — 0.093(70%Emax) | — 0.027(20%Emax) |
| — 0.08(60%Emax)  | — 0.013(10%Emax) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.25

Operators:

Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1.18

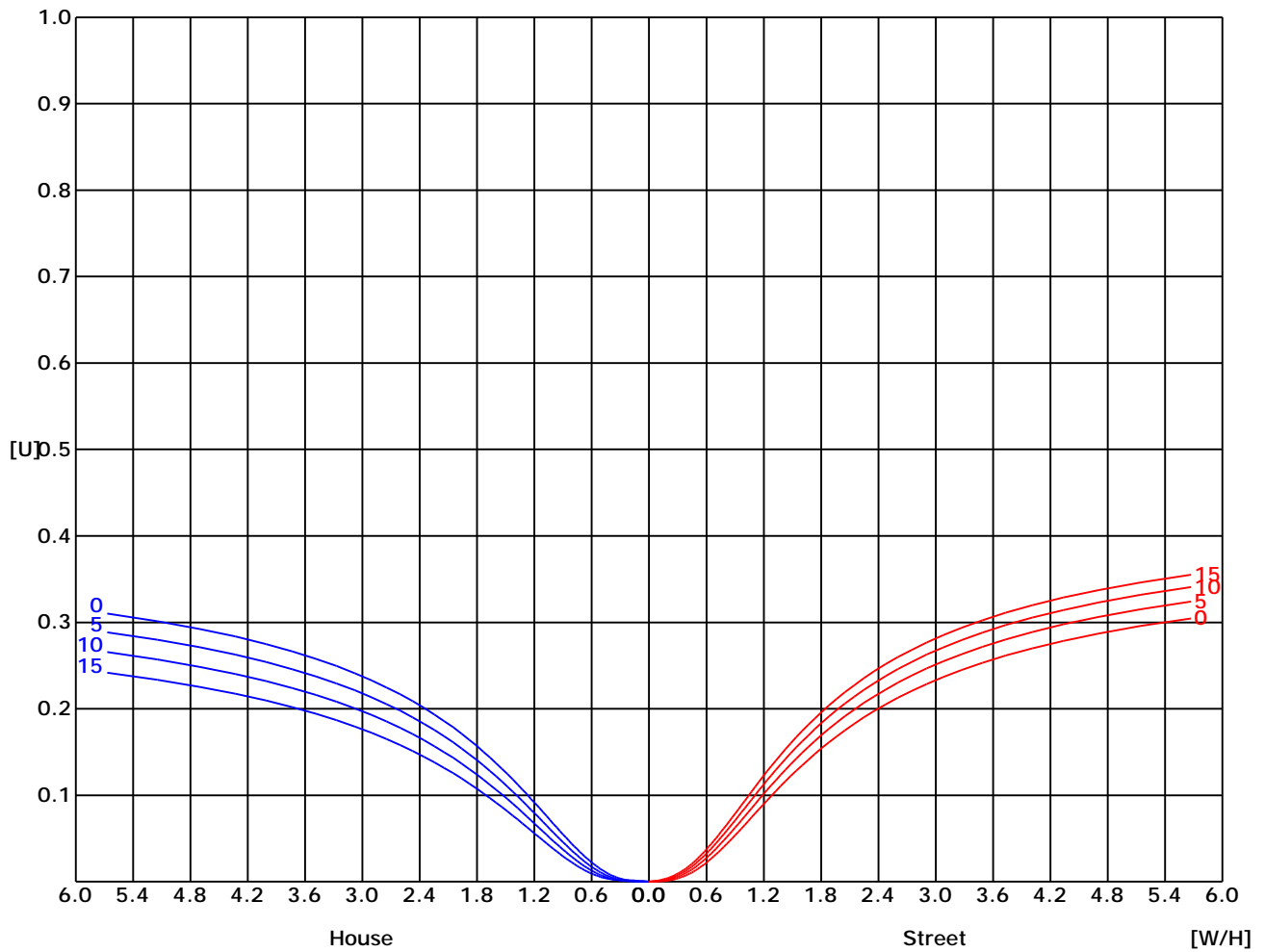
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/7/15 17:10:18

## UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 6.25  
 Operators:  
 Test Date: 2024/7/15 17:10:18

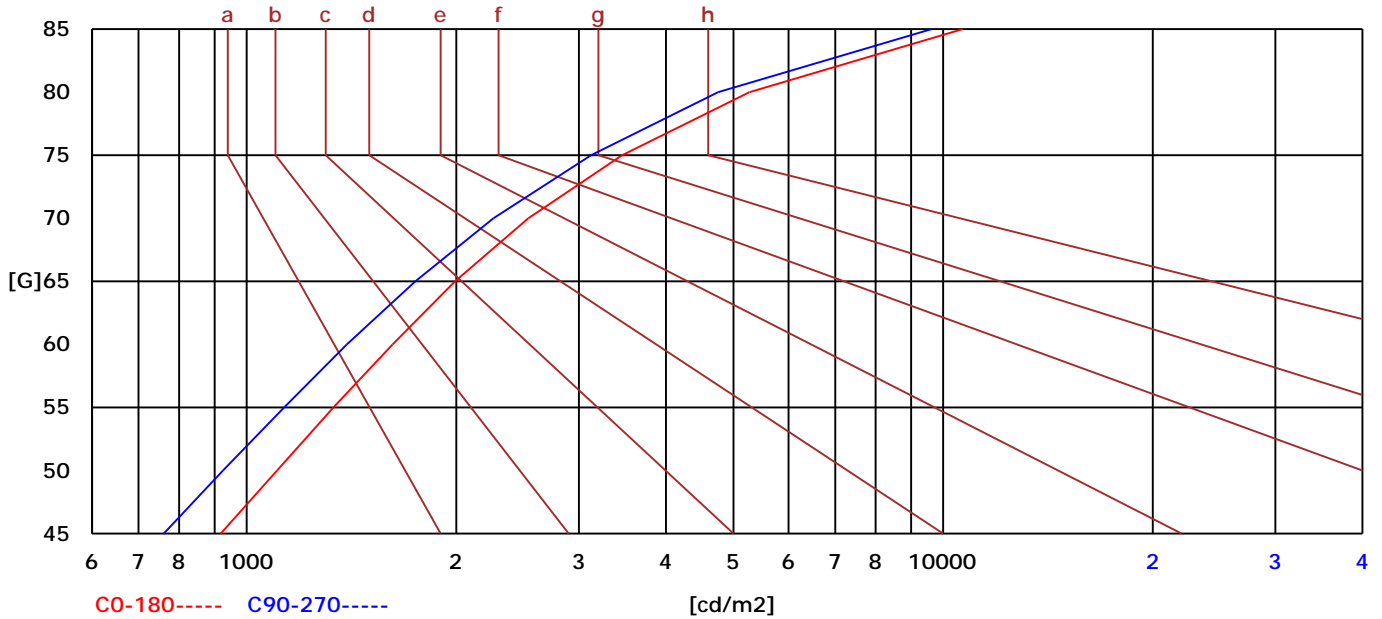
G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
 Humidity: 1.18  
 Test Distance: 6.25 m  
 Remarks:

Report No.:

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### BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	918	1106	1333	1621	1992	2538	3460	5275	10667
C90	761	925	1132	1393	1747	2261	3124	4752	9625
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: 6.25

Operators:

Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1.18

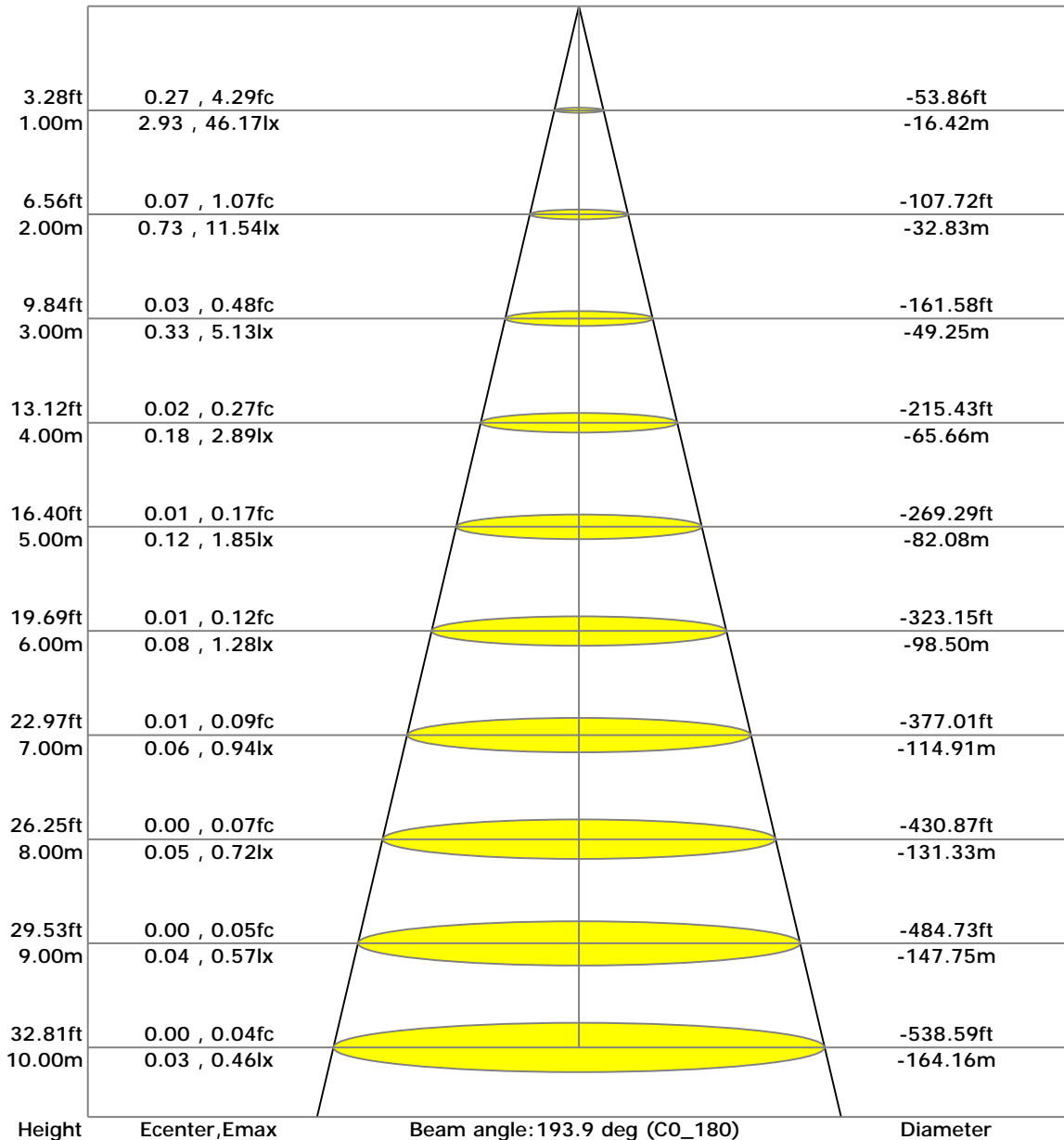
Test Distance: 6.25 m

Remarks:

Report No.:

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### LX-DISTANCE DIAGRAM



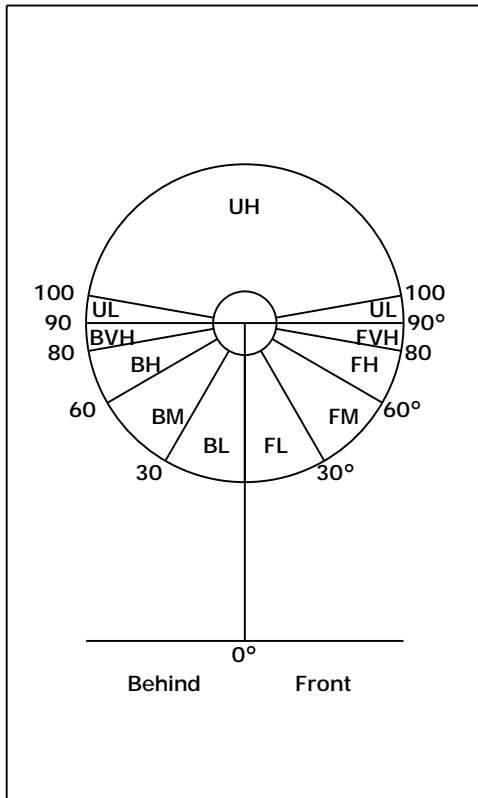
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 6.25  
 Operators:  
 Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
 Humidity: 1.18  
 Test Distance: 6.25 m  
 Remarks:

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### BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	86.0	31.6
FL (0°-30°)	4.4	1.6
FM (30°-60°)	27.8	10.2
FH (60°-80°)	34.2	12.6
FVH (80°-90°)	19.5	7.2

Behind	95.7	35.1
BL (0°-30°)	4.8	1.8
BM (30°-60°)	31.0	11.4
BH (60°-80°)	38.1	14.0
BVH (80°-90°)	21.7	8.0

Above	72.7	26.7
UL (90°-100°)	20.1	7.4
UH (100°-180°)	52.6	19.3

Limit Light	NA	NA
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BUG Class(TM-15-07)	
Asymmetric Lighting Fixtures (Type I , II , III , IV)	B0 U3 G1
Symmetrical Lighting Fixtures (Type V , Area Light)	B0 U3 G1

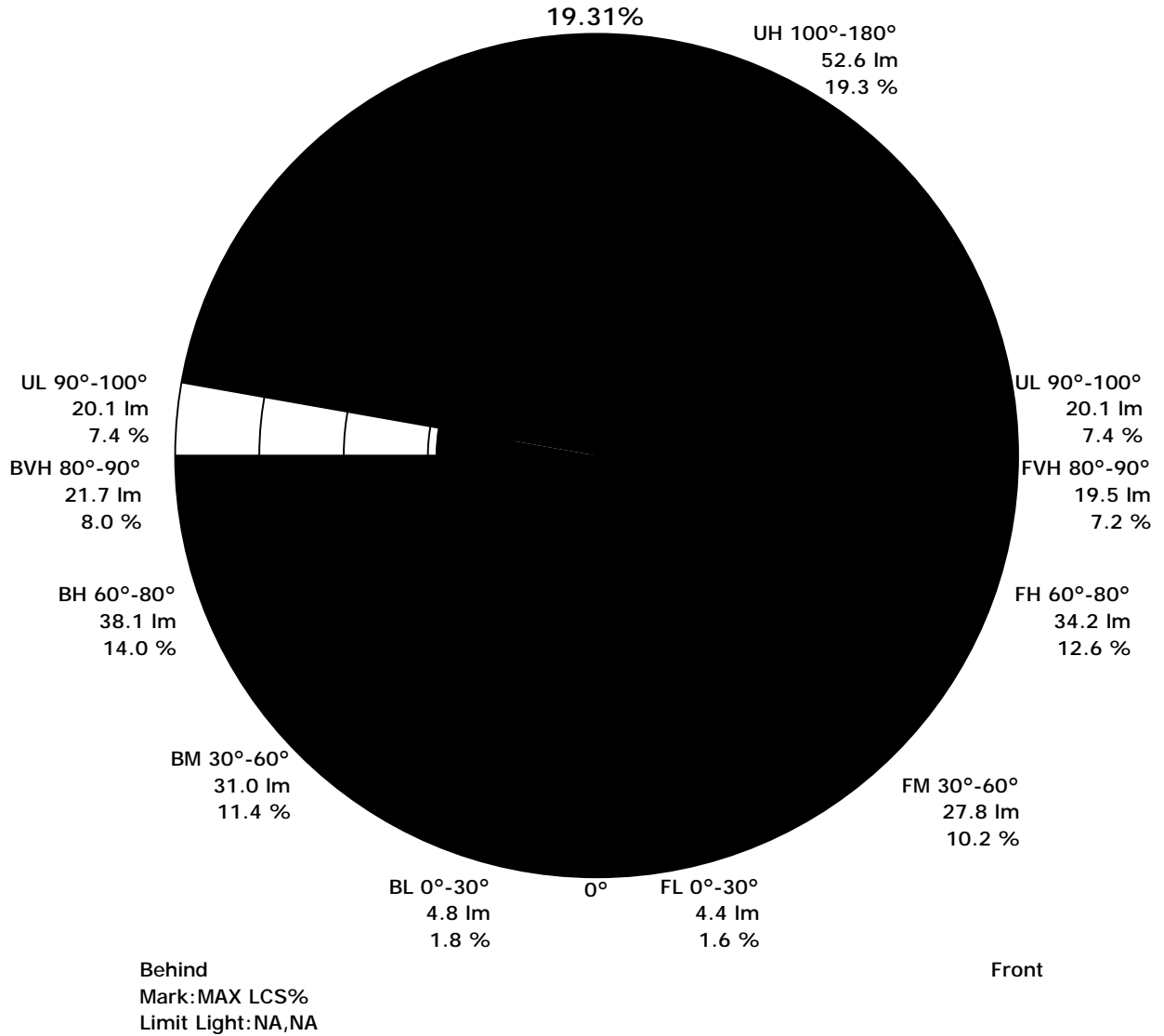
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 6.25  
 Operators:  
 Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
 Humidity: 1.18  
 Test Distance: 6.25 m  
 Remarks:

Report No.:

Test Time: 2024/7/15 17:10:18

### LCS 图



C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 6.25  
 Operators:  
 Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
 Humidity: 1.18  
 Test Distance: 6.25 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	14.15	14.71	14.09	14.90	15.16	13.36	13.92	13.31	14.12	14.38
	3H	14.44	15.01	14.39	15.20	15.46	13.89	14.46	13.84	14.65	14.91
	4H	14.52	15.10	14.47	15.28	15.55	14.10	14.67	14.05	14.86	15.12
	6H	14.50	15.08	14.47	15.27	15.54	14.17	14.75	14.14	14.93	15.21
	8H	14.43	15.00	14.40	15.19	15.47	14.09	14.67	14.07	14.85	15.14
	12H	14.35	14.92	14.33	15.11	15.40	14.01	14.58	14.00	14.77	15.06
4H	2H	20.35	20.92	20.30	21.11	21.37	18.98	19.56	18.94	19.74	20.01
	3H	20.73	21.30	20.72	21.49	21.79	19.59	20.16	19.57	20.35	20.64
	4H	20.84	21.41	20.86	21.60	21.92	19.83	20.40	19.85	20.60	20.91
	6H	20.87	21.42	20.93	21.63	21.97	20.02	20.56	20.07	20.77	21.11
	8H	20.85	21.38	20.93	21.61	21.97	20.06	20.59	20.14	20.82	21.18
	12H	20.78	21.29	20.89	21.53	21.91	20.04	20.55	20.14	20.79	21.16
8H	4H	23.82	24.40	23.80	24.58	24.87	22.02	22.59	21.99	22.78	23.06
	6H	24.93	25.42	25.06	25.67	26.07	23.65	24.13	23.78	24.38	24.79
	8H	25.00	25.45	25.16	25.72	26.15	23.82	24.28	23.99	24.55	24.97
	12H	25.02	25.43	25.22	25.73	26.18	23.96	24.37	24.16	24.67	25.12
12H	4H	26.20	26.71	26.30	26.95	27.33	24.54	25.05	24.64	25.29	25.67
	6H	26.57	27.03	26.74	27.30	27.73	25.10	25.55	25.26	25.82	26.25

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
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G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
 Humidity: 1.18  
 Test Distance: 6.25 m  
 Remarks:

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### ZONAL LUMINOUS FLUX TABLE-1

Gamma [deg]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	3.01	0.00	0.00	0.00	0.00
5	3.55	0.08	0.08	0.03	0.03
10	5.29	0.34	0.43	0.13	0.16
15	7.63	0.83	1.25	0.30	0.46
20	10.30	1.58	2.83	0.58	1.04
25	13.14	2.59	5.42	0.95	1.99
30	16.06	3.86	9.27	1.42	3.40
35	18.94	5.33	14.61	1.96	5.36
40	21.65	6.96	21.57	2.56	7.92
45	24.57	8.78	30.35	3.22	11.14
50	27.27	10.71	41.06	3.93	15.07
55	29.70	12.61	53.67	4.63	19.70
60	31.86	14.43	68.10	5.30	25.00
65	33.67	16.11	84.22	5.91	30.91
70	35.25	17.62	101.83	6.47	37.38
75	36.37	18.84	120.68	6.92	44.29
80	37.23	19.79	140.46	7.26	51.56
85	37.83	20.46	160.92	7.51	59.07
90	38.03	20.81	181.73	7.64	66.71
95	37.57	20.68	202.41	7.59	74.30
100	29.00	17.42	219.83	6.39	80.69
105	26.54	14.35	234.18	5.27	85.95
110	21.39	12.11	246.29	4.45	90.40
115	17.85	9.65	255.94	3.54	93.94
120	12.64	6.87	262.81	2.52	96.46
125	8.43	4.49	267.30	1.65	98.11
130	4.55	2.44	269.74	0.90	99.01
135	3.12	1.37	271.12	0.50	99.51
140	1.72	0.75	271.87	0.28	99.79
145	0.88	0.38	272.25	0.14	99.93
150	0.33	0.14	272.38	0.05	99.98
155	0.14	0.05	272.43	0.02	100.00
160	0.00	0.01	272.44	0.00	100.00
165	0.00	0.00	272.44	0.00	100.00
170	0.00	0.00	272.44	0.00	100.00
175	0.00	0.00	272.44	0.00	100.00
180	0.00	0.00	272.44	0.00	100.00

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
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G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
 Humidity: 1.18  
 Test Distance: 6.25 m  
 Remarks:

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### ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zonal	φ total	%lum	%lamp
10	5.9	5.9	5.5	5.6	5.5	5.5	5.5	6.3	10	0.4	0.4	0.2	0.2
20	12.7	11.1	9.5	9.7	9.9	10.2	10.9	12.9	20	2.4	2.8	1.0	1.0
30	20.3	17.3	13.8	14.3	15.2	15.1	16.8	20.3	30	6.4	9.3	3.4	3.4
40	27.2	23.0	18.4	18.9	20.2	20.5	22.6	27.0	40	12.3	21.6	7.9	7.9
50	33.3	28.4	23.3	23.8	26.0	26.3	28.1	33.1	50	19.5	41.1	15.1	15.1
60	38.2	32.4	27.0	27.9	30.6	30.9	32.5	38.5	60	27.0	68.1	25.0	25.0
70	42.6	34.7	30.9	30.9	33.2	33.3	35.4	42.7	70	33.7	101.8	37.4	37.4
80	45.4	36.6	31.3	33.0	36.0	35.3	36.3	45.0	80	38.6	140.5	51.6	51.6
90	46.2	37.3	31.6	33.9	36.8	36.8	36.0	45.8	90	41.3	181.7	66.7	66.7
100	0.0	36.7	30.7	33.5	3.7	35.9	34.7	44.9	100	38.1	219.8	80.7	80.7
110	0.0	34.8	0.7	31.8	0.0	31.9	25.3	42.5	110	26.5	246.3	90.4	90.4
120	0.0	25.8	0.1	20.2	0.6	12.3	0.3	35.0	120	16.5	262.8	96.5	96.5
130	0.0	7.0	0.0	3.5	3.4	0.0	0.0	18.2	130	6.9	269.7	99.0	99.0
140	0.0	0.5	0.0	0.5	4.8	0.0	0.0	6.4	140	2.1	271.9	99.8	99.8
150	0.0	0.1	0.0	0.1	2.0	0.0	0.0	0.1	150	0.5	272.4	100.0	100.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	160	0.1	272.4	100.0	100.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	170	0.0	272.4	100.0	100.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	180	0.0	272.4	100.0	100.0

Conical surface Flux(90deg) : 30.4 lm

%lum = 11.1%

%lamp = 11.1%

Conical surface Flux(120deg) : 68.1 lm

%lum = 25.0%

%lamp = 25.0%

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.25

Operators:

Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1.18

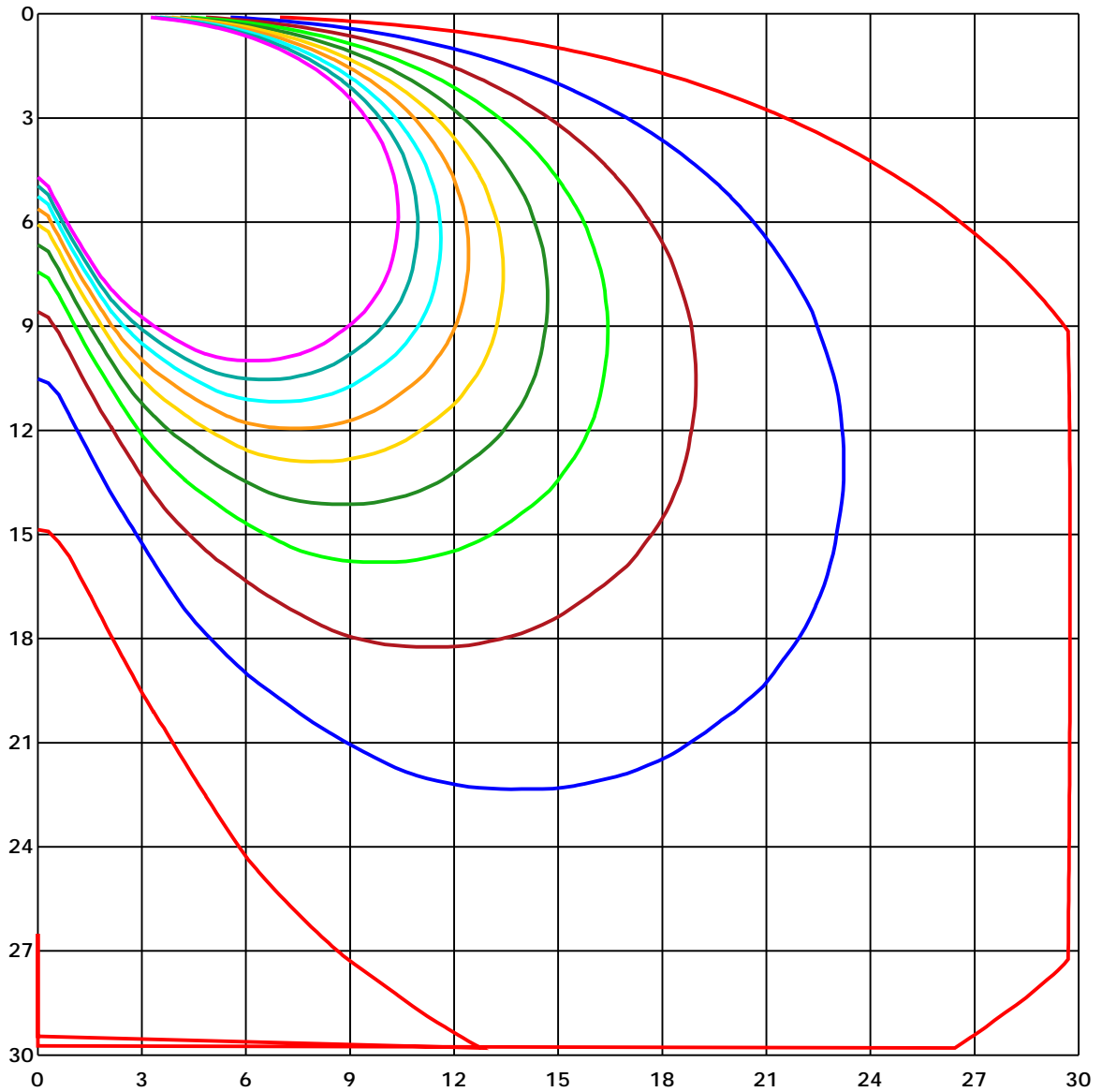
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/7/15 17:10:18

### SPACE ISOLX DIAGRAM



Unit of illumination: lx

- |         |         |
|---------|---------|
| — 0.133 | — 0.066 |
| — 0.119 | — 0.053 |
| — 0.106 | — 0.04  |
| — 0.093 | — 0.027 |
| — 0.08  | — 0.013 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.25

Operators:

Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1.18

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/7/15 17:10:18

## LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360
G0	2.93	2.93	3.01	3.16	2.93	2.93	3.01	3.16	2.93
G1	2.93	2.93	2.97	3.16	3.05	3.01	3.09	3.24	2.93
G2	3.05	3.09	3.16	3.32	3.16	3.09	3.2	3.32	3.05
G3	3.16	3.24	3.28	3.52	3.28	3.28	3.36	3.48	3.16
G4	3.44	3.48	3.55	3.71	3.48	3.52	3.52	3.75	3.44
G5	3.71	3.79	3.87	3.91	3.75	3.75	3.75	4.02	3.71
G6	4.06	4.14	4.1	4.22	3.98	4.06	4.1	4.38	4.06
G7	4.45	4.57	4.45	4.53	4.34	4.3	4.45	4.77	4.45
G8	4.88	5.0	4.8	4.92	4.73	4.69	4.84	5.2	4.88
G9	5.39	5.39	5.16	5.27	5.12	5.08	5.2	5.7	5.39
G10	5.86	5.9	5.51	5.63	5.47	5.55	5.55	6.25	5.86
G11	6.45	6.33	5.9	6.02	5.9	5.94	5.98	6.8	6.45
G12	7.11	6.84	6.25	6.29	6.29	6.37	6.48	7.38	7.11
G13	7.85	7.3	6.64	6.68	6.64	6.91	6.95	7.97	7.85
G14	8.63	7.81	7.07	7.11	7.07	7.27	7.5	8.59	8.63
G15	9.3	8.32	7.46	7.54	7.58	7.77	8.13	9.18	9.3
G16	9.96	8.83	7.89	7.93	8.05	8.32	8.63	9.92	9.96
G17	10.66	9.38	8.24	8.36	8.44	8.75	9.22	10.59	10.66
G18	11.37	9.88	8.67	8.83	8.95	9.26	9.8	11.41	11.37
G19	11.99	10.51	9.06	9.26	9.41	9.73	10.35	12.07	11.99
G20	12.7	11.09	9.53	9.73	9.88	10.2	10.94	12.89	12.7
G21	13.48	11.6	9.92	10.12	10.43	10.66	11.52	13.59	13.48
G22	14.22	12.3	10.35	10.59	10.94	11.13	12.19	14.34	14.22
G23	15.0	12.81	10.78	11.05	11.41	11.6	12.73	15.16	15.0
G24	15.78	13.4	11.17	11.56	11.99	12.11	13.28	15.82	15.78
G25	16.64	14.02	11.72	12.07	12.5	12.58	13.83	16.68	16.64
G26	17.46	14.73	12.07	12.5	13.05	13.05	14.41	17.46	17.46
G27	18.2	15.27	12.5	12.97	13.55	13.59	14.96	18.2	18.2
G28	18.91	15.94	12.93	13.44	14.1	14.1	15.55	18.98	18.91
G29	19.65	16.68	13.32	13.87	14.69	14.57	16.05	19.65	19.65
G30	20.31	17.3	13.79	14.34	15.16	15.08	16.8	20.31	20.31
G31	21.02	17.97	14.22	14.77	15.63	15.59	17.42	21.02	21.02
G32	21.68	18.59	14.69	15.27	16.13	16.17	18.05	21.76	21.68
G33	22.42	19.1	15.16	15.7	16.72	16.8	18.63	22.42	22.42
G34	23.16	19.69	15.55	16.13	17.23	17.3	19.3	23.16	23.16
G35	23.83	20.27	16.02	16.64	17.7	17.85	19.88	23.79	23.83
G36	24.49	20.78	16.48	17.07	18.16	18.32	20.43	24.45	24.49

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.25

Operators:

Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1.18

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/7/15 17:10:18

### LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	25.2	21.33	16.95	17.58	18.63	18.83	21.02	25.12	25.2	
G38	25.9	21.84	17.46	18.01	19.14	19.41	21.52	25.74	25.9	
G39	26.52	22.38	17.85	18.44	19.65	19.84	22.07	26.41	26.52	
G40	27.19	23.01	18.44	18.91	20.16	20.47	22.58	27.03	27.19	
G41	27.81	23.67	18.95	19.41	20.7	21.02	23.2	27.66	27.81	
G42	28.36	24.22	19.61	20.0	21.25	21.6	23.83	28.32	28.36	
G43	28.98	24.8	20.12	20.55	21.88	22.19	24.34	29.06	28.98	
G44	29.57	25.39	20.7	21.09	22.54	22.73	24.88	29.61	29.57	
G45	30.27	25.98	21.21	21.52	23.16	23.36	25.55	30.16	30.27	
G46	30.9	26.41	21.56	21.99	23.83	23.98	26.05	30.78	30.9	
G47	31.6	26.88	22.03	22.34	24.34	24.61	26.56	31.33	31.6	
G48	32.15	27.46	22.42	22.85	24.8	25.43	27.07	31.91	32.15	
G49	32.66	27.97	22.89	23.28	25.39	25.82	27.62	32.5	32.66	
G50	33.28	28.44	23.28	23.79	26.02	26.29	28.09	33.09	33.28	
G51	33.87	28.87	23.67	24.14	26.64	26.84	28.55	33.59	33.87	
G52	34.41	29.41	24.06	24.65	27.07	27.34	29.06	34.18	34.41	
G53	34.88	29.8	24.49	25.04	27.46	28.01	29.65	34.69	34.88	
G54	35.43	30.16	24.73	25.51	27.97	28.44	30.12	35.23	35.43	
G55	35.86	30.59	25.16	25.98	28.52	28.79	30.55	35.78	35.86	
G56	36.33	31.02	25.51	26.41	29.1	29.14	30.94	36.33	36.33	
G57	36.72	31.37	25.9	26.8	29.41	29.57	31.29	36.84	36.72	
G58	37.19	31.72	26.29	27.11	29.8	30.08	31.6	37.46	37.19	
G59	37.7	32.19	26.72	27.46	30.27	30.51	32.11	37.89	37.7	
G60	38.16	32.42	27.03	27.85	30.59	30.86	32.46	38.52	38.16	
G61	38.59	32.66	27.46	28.24	30.98	31.09	32.77	38.91	38.59	
G62	39.1	33.05	27.89	28.48	31.33	31.45	33.16	39.34	39.1	
G63	39.49	33.2	28.32	28.87	31.56	31.76	33.48	39.8	39.49	
G64	40.0	33.52	28.71	29.14	31.88	32.07	33.75	40.31	40.0	
G65	40.51	33.67	29.02	29.53	32.07	32.42	34.14	40.74	40.51	
G66	40.86	33.87	29.49	29.77	32.3	32.58	34.41	41.25	40.86	
G67	41.25	34.18	29.88	30.12	32.54	32.85	34.77	41.6	41.25	
G68	41.68	34.34	30.2	30.47	32.73	33.16	35.0	42.03	41.68	
G69	42.3	34.65	30.51	30.7	32.97	33.28	35.27	42.34	42.3	
G70	42.58	34.73	30.86	30.94	33.2	33.32	35.35	42.7	42.58	
G71	42.89	35.0	31.05	31.29	33.48	33.52	35.66	42.93	42.89	
G72	43.24	35.23	30.98	31.56	33.75	33.71	35.86	43.16	43.24	
G73	43.59	35.47	31.02	31.95	34.1	33.79	36.02	43.44	43.59	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.25

Operators:

Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1.18

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/7/15 17:10:18

### LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G74	43.98	35.63	30.82	32.15	34.45	33.95	36.25	43.75	43.98	
G75	44.3	35.82	30.82	32.34	34.65	34.18	36.29	44.02	44.3	
G76	44.61	35.94	30.9	32.54	35.08	34.3	36.29	44.18	44.61	
G77	44.77	36.17	30.9	32.73	35.27	34.57	36.29	44.38	44.77	
G78	45.08	36.29	31.05	32.89	35.55	34.84	36.29	44.61	45.08	
G79	45.23	36.48	31.02	32.93	35.82	35.08	36.45	44.8	45.23	
G80	45.35	36.64	31.25	33.01	35.98	35.31	36.29	45.0	45.35	
G81	45.51	36.64	31.17	33.05	36.13	35.43	36.41	45.12	45.51	
G82	45.66	36.84	31.25	33.28	36.33	35.66	36.48	45.27	45.66	
G83	45.82	36.99	31.25	33.32	36.41	35.98	36.52	45.47	45.82	
G84	45.98	36.99	31.45	33.55	36.52	36.13	36.41	45.59	45.98	
G85	45.98	37.19	31.56	33.55	36.72	36.25	36.41	45.59	45.98	
G86	46.13	37.15	31.56	33.79	36.64	36.41	36.29	45.7	46.13	
G87	46.13	37.23	31.56	33.83	36.76	36.56	36.29	45.9	46.13	
G88	46.09	37.19	31.56	33.91	36.76	36.76	36.17	45.86	46.09	
G89	46.13	37.27	31.56	33.87	36.76	36.8	36.09	45.78	46.13	
G90	46.17	37.3	31.56	33.95	36.8	36.8	35.98	45.82	46.17	
G91	46.05	37.27	31.52	33.95	36.8	36.76	35.86	45.86	46.05	
G92	45.78	37.27	31.48	33.95	36.72	36.8	35.78	45.78	45.78	
G93	45.31	37.23	31.37	33.91	36.25	36.88	35.78	45.66	45.31	
G94	44.45	37.15	31.29	33.91	35.74	36.72	35.59	45.74	44.45	
G95	41.05	37.15	31.25	33.87	34.34	36.6	35.59	45.7	41.05	
G96	32.07	36.99	31.05	33.79	28.98	36.48	35.23	45.55	32.07	
G97	22.85	36.91	30.98	33.67	22.66	36.41	35.08	45.35	22.85	
G98	13.63	36.8	30.9	33.71	16.02	36.29	35.0	45.31	13.63	
G99	5.39	36.72	30.74	33.63	9.41	36.09	34.84	45.16	5.39	
G100	0.0	36.68	30.74	33.48	3.71	35.9	34.69	44.88	0.0	
G101	0.0	36.41	30.59	33.36	1.09	35.7	34.53	44.69	0.0	
G102	0.0	36.29	30.47	33.16	0.66	35.43	34.18	44.61	0.0	
G103	0.0	36.09	30.35	33.05	0.51	35.2	33.91	44.45	0.0	
G104	0.0	36.02	30.23	33.01	0.39	34.73	33.71	44.22	0.0	
G105	0.0	35.74	30.16	32.81	0.31	34.45	33.09	43.98	0.0	
G106	0.0	35.63	25.9	32.58	0.31	34.1	31.95	43.75	0.0	
G107	0.0	35.39	10.82	32.3	0.23	33.79	30.59	43.48	0.0	
G108	0.0	35.16	2.19	32.19	0.16	33.44	29.14	43.16	0.0	
G109	0.0	34.96	1.02	31.95	0.12	32.81	27.38	42.85	0.0	
G110	0.0	34.77	0.74	31.8	0.04	31.91	25.27	42.54	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.25

Operators:

Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1.18

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/7/15 17:10:18

### LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G111	0.0	34.69	0.59	31.48	0.04	30.74	22.5	42.19	0.0	
G112	0.0	34.41	0.51	30.94	0.0	29.38	19.53	41.84	0.0	
G113	0.0	33.91	0.39	30.0	0.0	27.58	16.45	41.52	0.0	
G114	0.0	33.16	0.35	29.02	0.0	25.59	13.63	41.02	0.0	
G115	0.0	32.23	0.31	27.85	0.0	23.48	9.96	40.47	0.0	
G116	0.0	31.21	0.23	26.68	0.0	21.21	6.17	39.61	0.0	
G117	0.0	30.12	0.2	25.23	0.0	19.06	2.7	38.71	0.0	
G118	0.0	29.02	0.16	23.67	0.0	16.8	0.39	37.62	0.0	
G119	0.0	27.66	0.12	21.99	0.08	14.49	0.35	36.41	0.0	
G120	0.0	25.82	0.08	20.2	0.63	12.27	0.31	35.04	0.0	
G121	0.0	24.02	0.04	18.28	1.09	10.08	0.78	33.55	0.0	
G122	0.0	22.19	0.04	16.29	1.41	7.85	1.33	31.99	0.0	
G123	0.0	20.27	0.0	14.38	1.56	5.78	1.84	30.51	0.0	
G124	0.0	18.28	0.0	12.62	1.84	3.98	1.95	28.75	0.0	
G125	0.0	16.25	0.0	10.78	2.19	2.54	1.6	27.03	0.0	
G126	0.0	14.34	0.0	8.98	2.46	1.21	1.13	25.27	0.0	
G127	0.0	12.42	0.0	7.23	2.7	0.35	0.55	23.48	0.0	
G128	0.0	10.55	0.0	5.78	2.93	0.0	0.0	21.76	0.0	
G129	0.0	8.75	0.0	4.53	3.13	0.0	0.0	19.96	0.0	
G130	0.0	6.95	0.0	3.52	3.4	0.0	0.0	18.16	0.0	
G131	0.0	5.55	0.0	2.85	4.1	0.0	0.0	16.29	0.0	
G132	0.0	4.49	0.0	2.27	6.64	0.0	0.0	14.61	0.0	
G133	0.0	3.55	0.0	1.72	9.22	0.0	0.0	12.93	0.0	
G134	0.0	2.58	0.0	1.33	9.57	0.0	0.0	11.48	0.0	
G135	0.0	1.76	0.0	0.94	8.32	0.0	0.0	10.12	0.0	
G136	0.0	1.17	0.0	0.7	7.62	0.0	0.0	8.95	0.0	
G137	0.0	0.78	0.0	0.63	7.23	0.0	0.0	7.97	0.0	
G138	0.0	0.7	0.0	0.59	6.76	0.0	0.0	7.34	0.0	
G139	0.0	0.63	0.0	0.55	5.74	0.0	0.0	6.88	0.0	
G140	0.0	0.51	0.0	0.51	4.77	0.0	0.0	6.41	0.0	
G141	0.0	0.47	0.0	0.43	4.02	0.0	0.0	5.86	0.0	
G142	0.0	0.43	0.0	0.43	3.44	0.0	0.0	5.31	0.0	
G143	0.0	0.35	0.0	0.39	3.01	0.0	0.0	4.61	0.0	
G144	0.0	0.31	0.0	0.35	2.66	0.0	0.0	3.75	0.0	
G145	0.0	0.27	0.0	0.27	2.5	0.0	0.0	2.85	0.0	
G146	0.0	0.23	0.0	0.23	2.46	0.0	0.0	1.95	0.0	
G147	0.0	0.23	0.0	0.23	2.34	0.0	0.0	1.13	0.0	

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 6.25  
 Operators:  
 Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
 Humidity: 1.18  
 Test Distance: 6.25 m  
 Remarks:

Report No.:

Test Time: 2024/7/15 17:10:18

### LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360
G148	0.0	0.16	0.0	0.23	2.27	0.0	0.0	0.55	0.0
G149	0.0	0.12	0.0	0.2	2.11	0.0	0.0	0.2	0.0
G150	0.0	0.08	0.0	0.12	1.95	0.0	0.0	0.08	0.0
G151	0.0	0.08	0.0	0.08	1.72	0.0	0.0	0.08	0.0
G152	0.0	0.06	0.0	0.04	1.52	0.0	0.0	0.04	0.0
G153	0.0	0.04	0.0	0.0	1.29	0.0	0.0	0.0	0.0
G154	0.0	0.0	0.0	0.0	1.09	0.0	0.0	0.0	0.0
G155	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.0
G156	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0
G157	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0
G158	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0
G159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G161	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G163	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G164	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G166	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G167	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G168	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G171	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G172	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G173	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G174	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G176	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G177	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G178	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G179	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 6.25  
 Operators:  
 Test Date: 2024/7/15 17:10:18

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
 Humidity: 1.18  
 Test Distance: 6.25 m  
 Remarks: