

Report No.:

Test Time: 2024/6/13 9:44:53

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: MB21-BL12B
 Lamp Type:
 Luminous Width: 0 mm
 Luminous Length: 0 mm
 Luminous Height: 0 mm

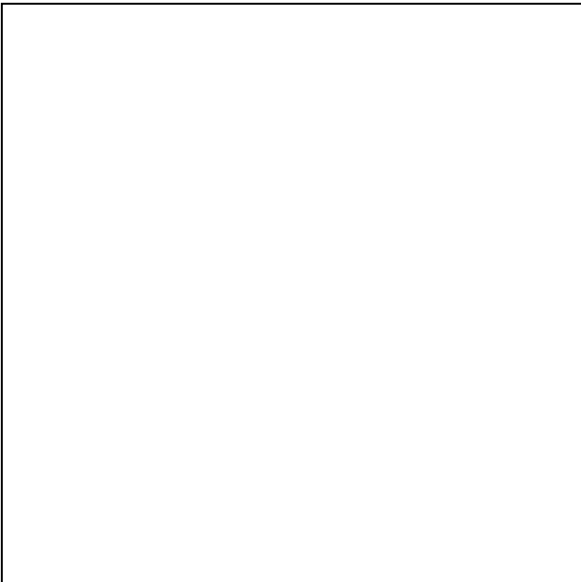
Voltage(V): 219.20 V
 Current(A): 0.1790 A
 Power(W): 22.47 W
 Power Factor: 0.5690
 Lamp Luminous Flux: 1005.86

Photometric Results

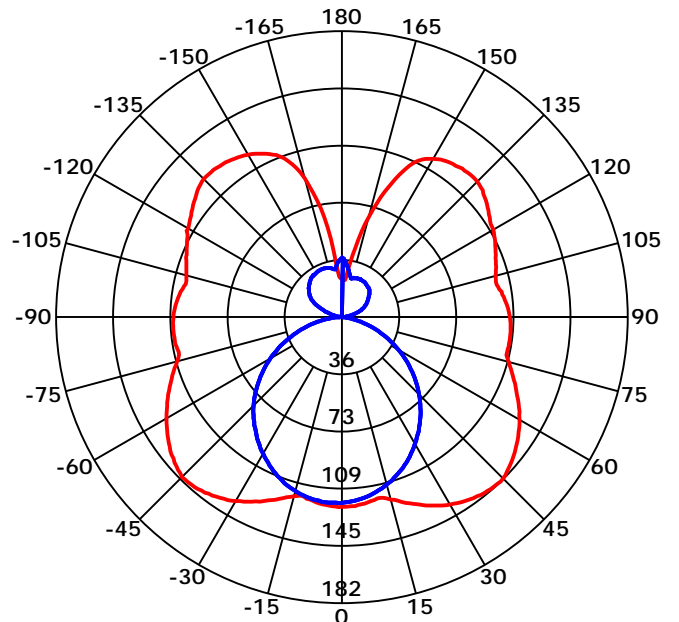
CIE Class: Direct
 Luminaire Luminous Flux: 1005.859 lm
 Downward Ratio: 57.21%
 Luminaire Efficacy Rating(LER): 44.76 lm/W
 Beam Angle(50%) C0-180,C90-270: 332.2,107.3
 Field Angle(10%) C0-180,C90-270: 0.0,289.4
 S/MH C0-180,C90-270: 1.739,1.202

Max. Intensity: 145.43 cd
 Max.Intensity Angle: C=0 Gamma=44
 Upward Ratio: 42.79%
 Efficacy: 100.00%
 Center Intensity: 120.66 cd
 Effective Luminous Flux: 1005.86 lm
 ERP(φ use)(120deg): 347.05 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 332.2 deg,107.3 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 9:44:53

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

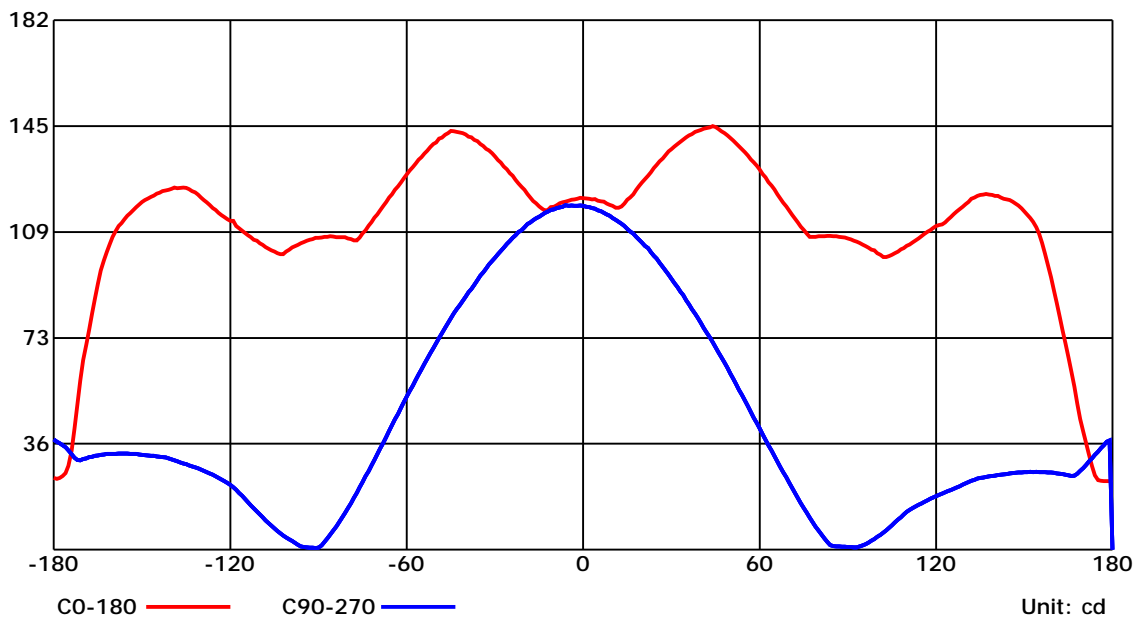
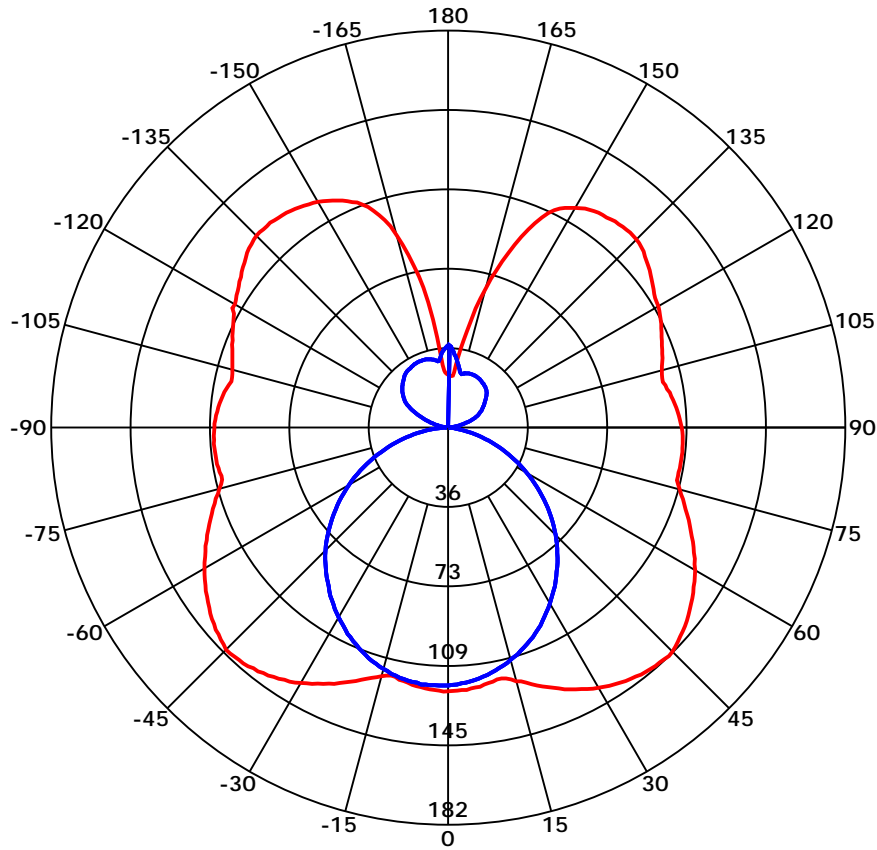
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 9:44:53

Luminous Intensity Distribution Curve



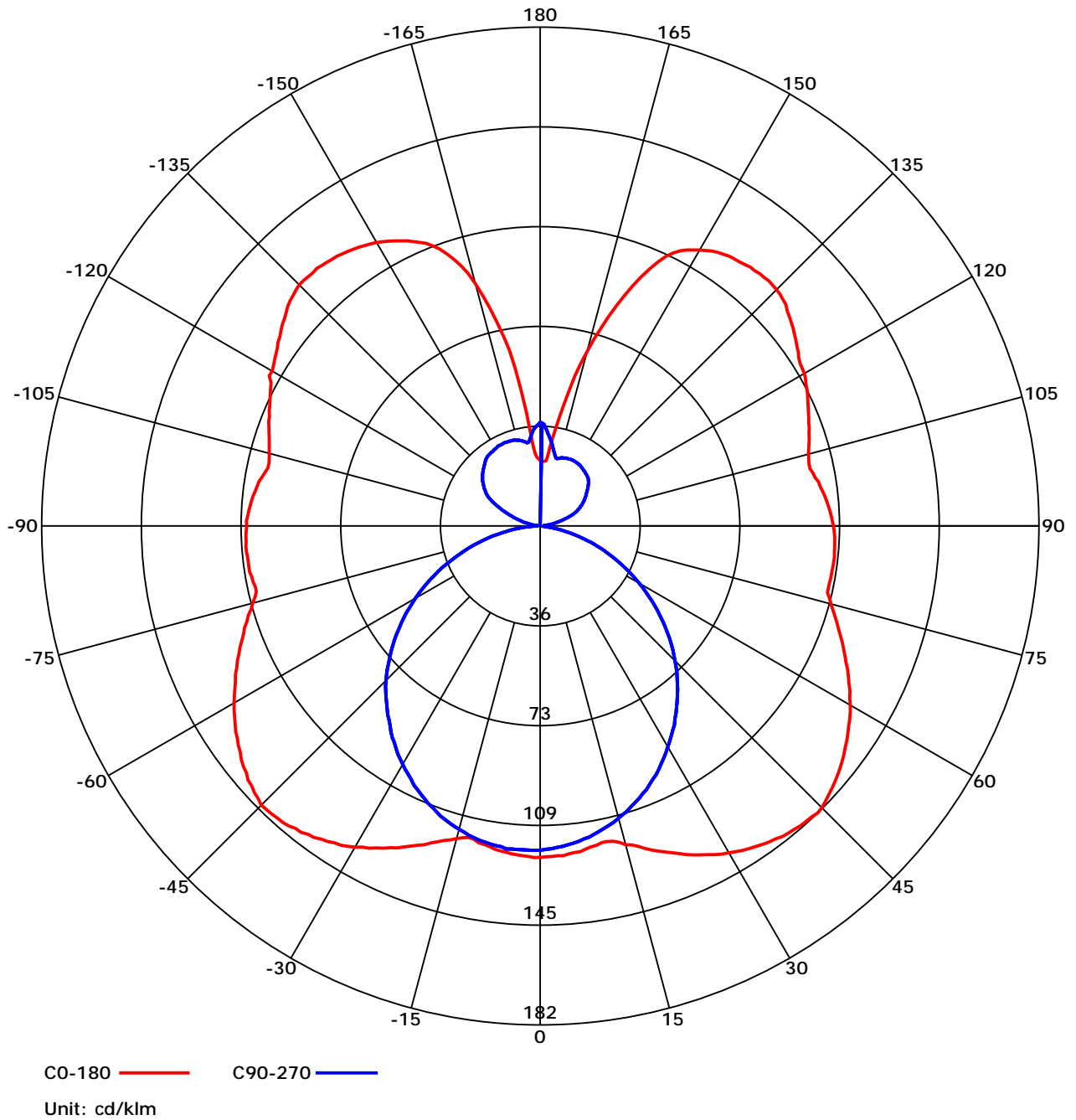
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 9:44:53

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

Report No.:

Test Time: 2024/6/13 9:44:53

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 9:44:53

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

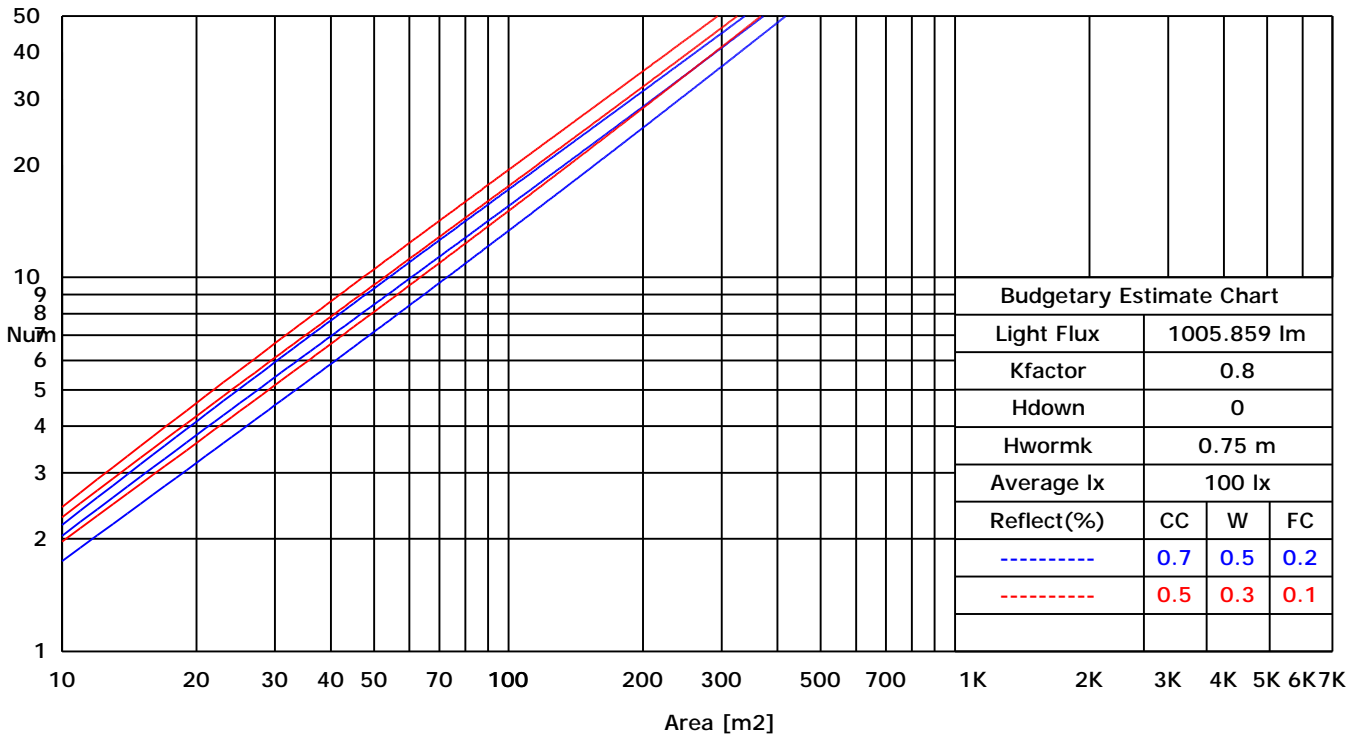
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UTILIZATION FACTORS TABLE

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	1.05	1.03	1.02	1.04	1.02	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.86	0.84	0.79
2	0.94	0.92	0.90	0.93	0.91	0.89	0.91	0.87	0.85	0.87	0.83	0.81	0.82	0.78	0.75	0.71
3	0.86	0.84	0.83	0.86	0.83	0.81	0.84	0.80	0.77	0.81	0.77	0.73	0.77	0.72	0.69	0.64
4	0.81	0.78	0.77	0.80	0.77	0.75	0.78	0.75	0.72	0.76	0.72	0.68	0.73	0.68	0.64	0.60
5	0.76	0.74	0.73	0.76	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.65	0.70	0.65	0.61	0.57
6	0.73	0.71	0.70	0.72	0.70	0.68	0.71	0.67	0.65	0.69	0.65	0.62	0.67	0.62	0.58	0.54
7	0.70	0.68	0.67	0.70	0.67	0.65	0.68	0.65	0.62	0.67	0.63	0.59	0.65	0.60	0.56	0.53
8	0.68	0.66	0.65	0.67	0.65	0.64	0.66	0.63	0.61	0.65	0.61	0.57	0.63	0.58	0.54	0.51
9	0.66	0.64	0.63	0.66	0.63	0.62	0.65	0.61	0.59	0.63	0.59	0.56	0.61	0.57	0.53	0.50
10	0.64	0.63	0.62	0.64	0.62	0.61	0.63	0.60	0.58	0.62	0.58	0.55	0.60	0.55	0.52	0.49

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



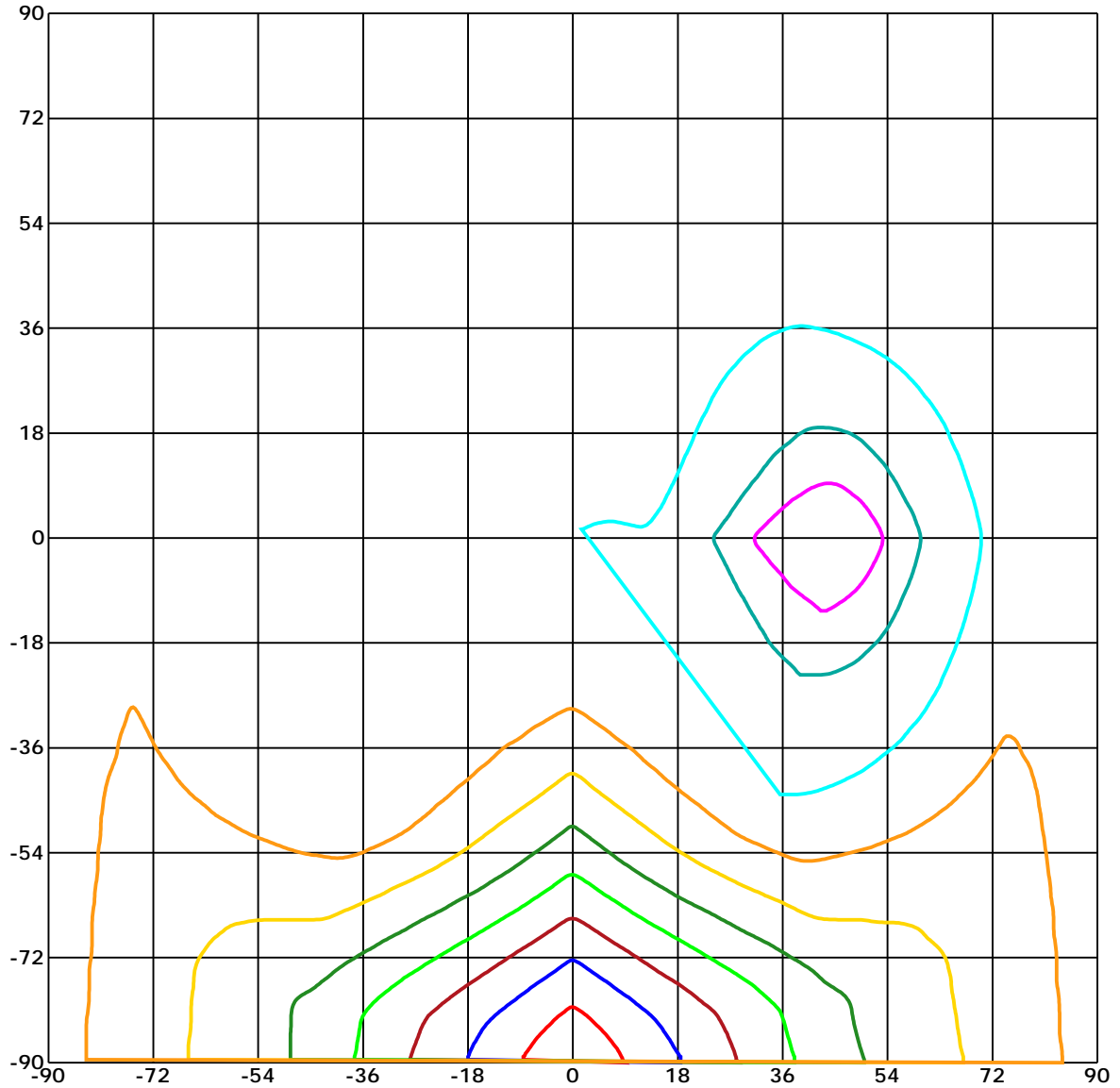
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 9:44:53

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

Report No.:

Test Time: 2024/6/13 9:44:53

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd Imax(100%): 145.43 cd

- | | |
|--------------------|-------------------|
| — 138.158(95%Imax) | — 72.715(50%Imax) |
| — 130.887(90%Imax) | — 58.172(40%Imax) |
| — 116.344(80%Imax) | — 43.629(30%Imax) |
| — 101.801(70%Imax) | — 29.086(20%Imax) |
| — 87.258(60%Imax) | — 14.543(10%Imax) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 9:44:53

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

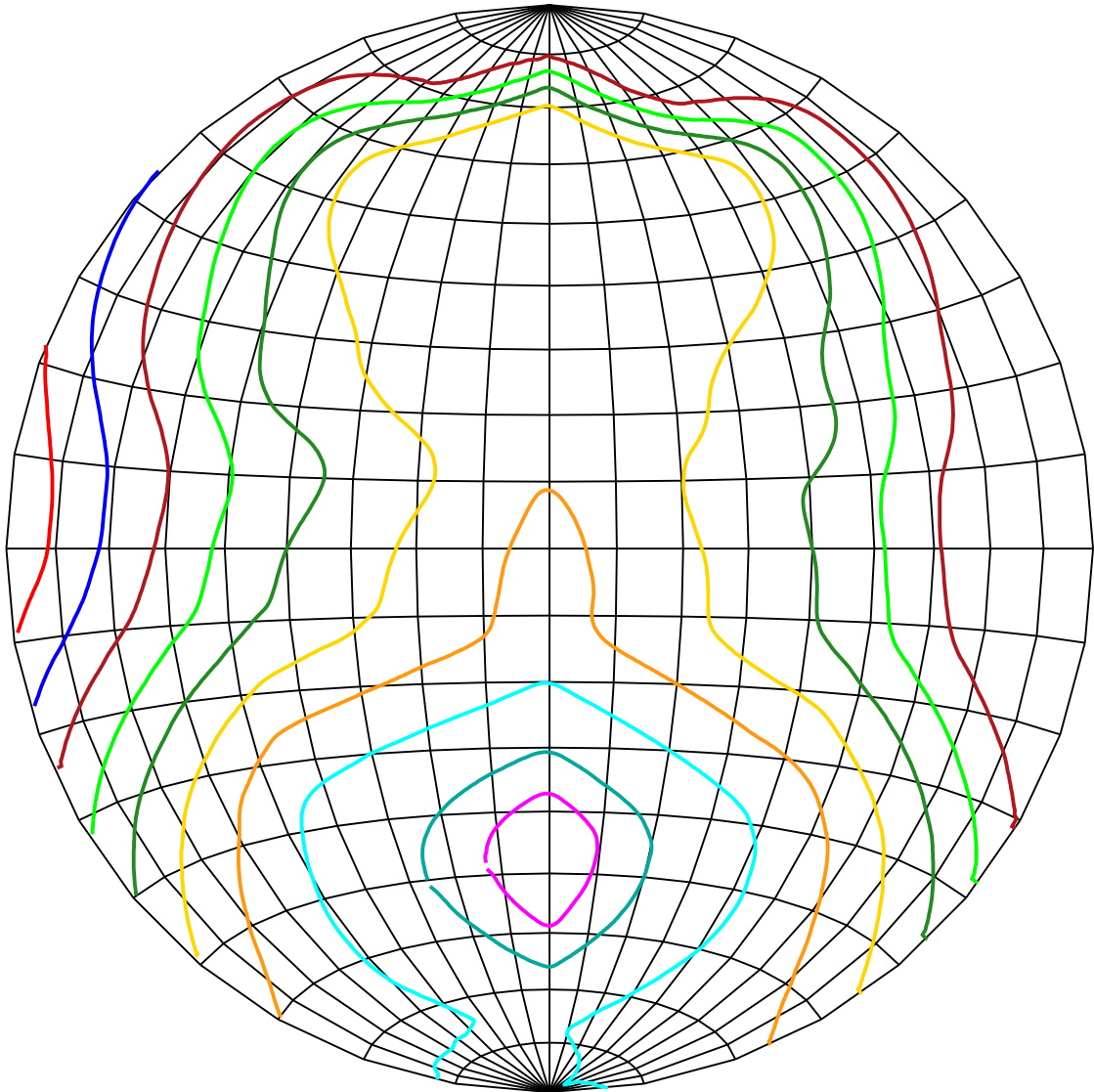
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 9:44:53

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 145.43 cd

— 138.158(95%I _{max})	— 72.715(50%I _{max})
— 130.887(90%I _{max})	— 58.172(40%I _{max})
— 116.344(80%I _{max})	— 43.629(30%I _{max})
— 101.801(70%I _{max})	— 29.086(20%I _{max})
— 87.258(60%I _{max})	— 14.543(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 9:44:53

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

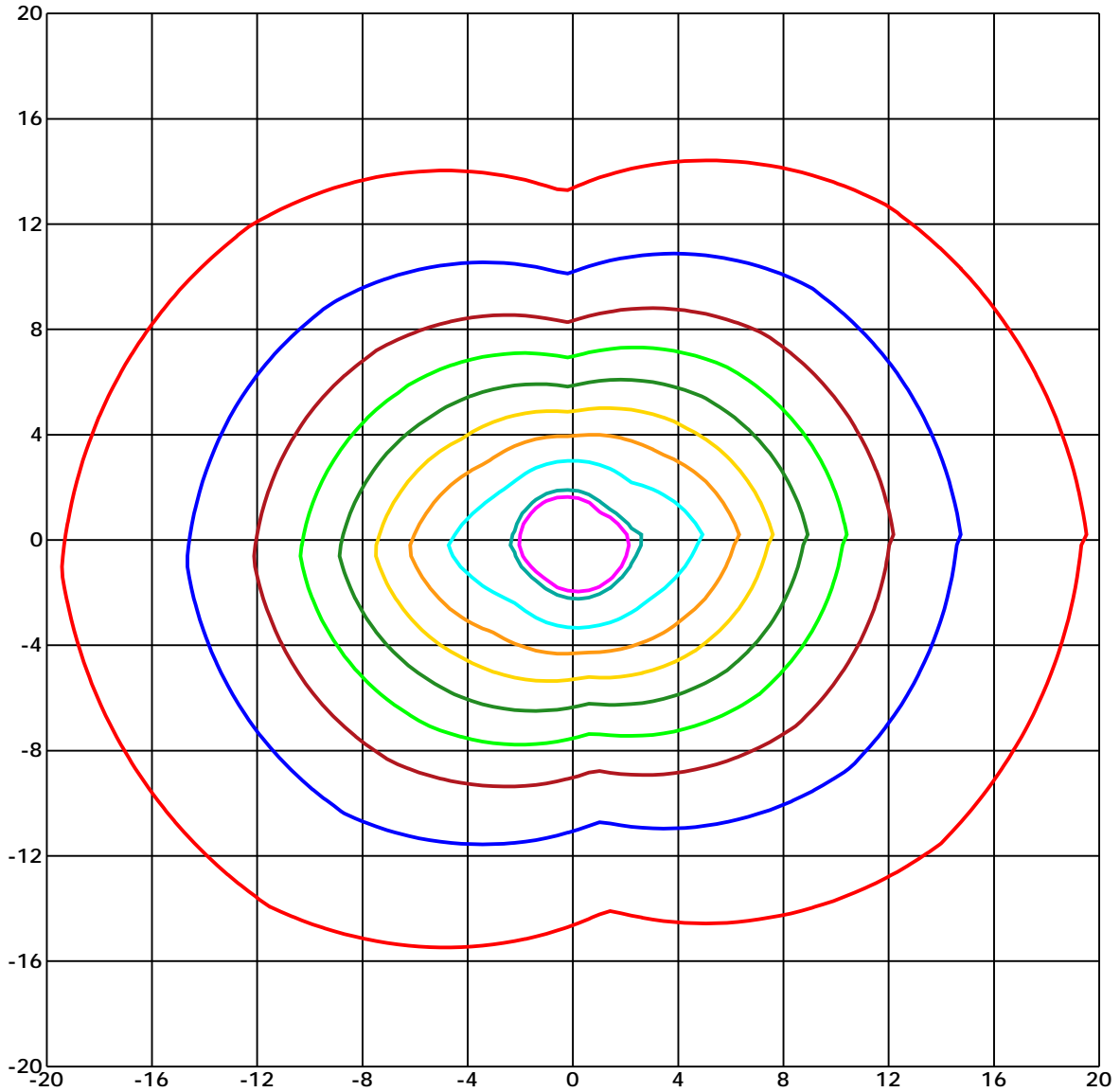
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 9:44:53

ISOLX DIAGRAM



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

- | | |
|------------------|------------------|
| — 1.111(92%Emax) | — 0.604(50%Emax) |
| — 1.087(90%Emax) | — 0.483(40%Emax) |
| — 0.966(80%Emax) | — 0.362(30%Emax) |
| — 0.845(70%Emax) | — 0.242(20%Emax) |
| — 0.725(60%Emax) | — 0.121(10%Emax) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 9:44:53

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

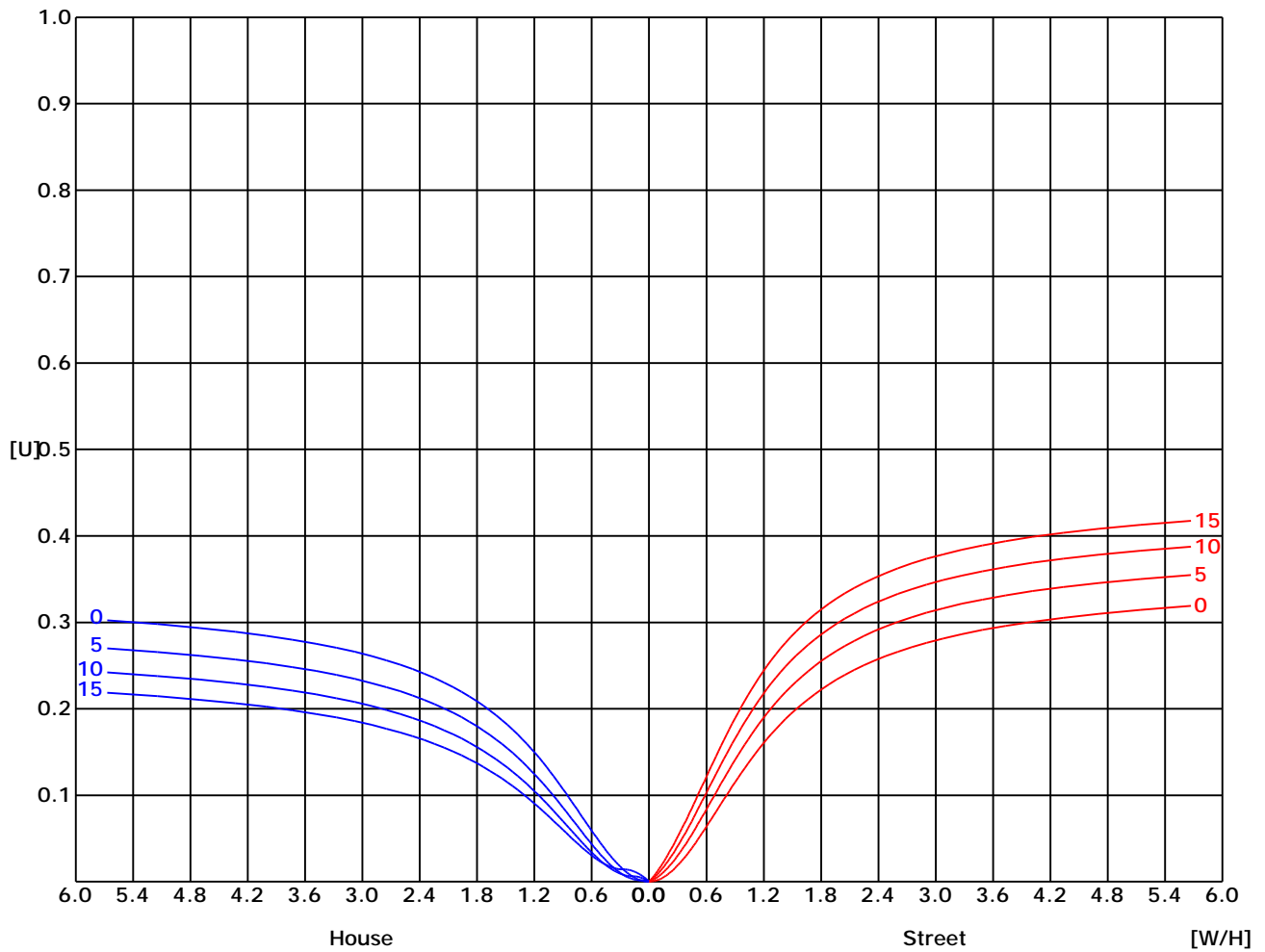
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 9:44:53

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 9:44:53

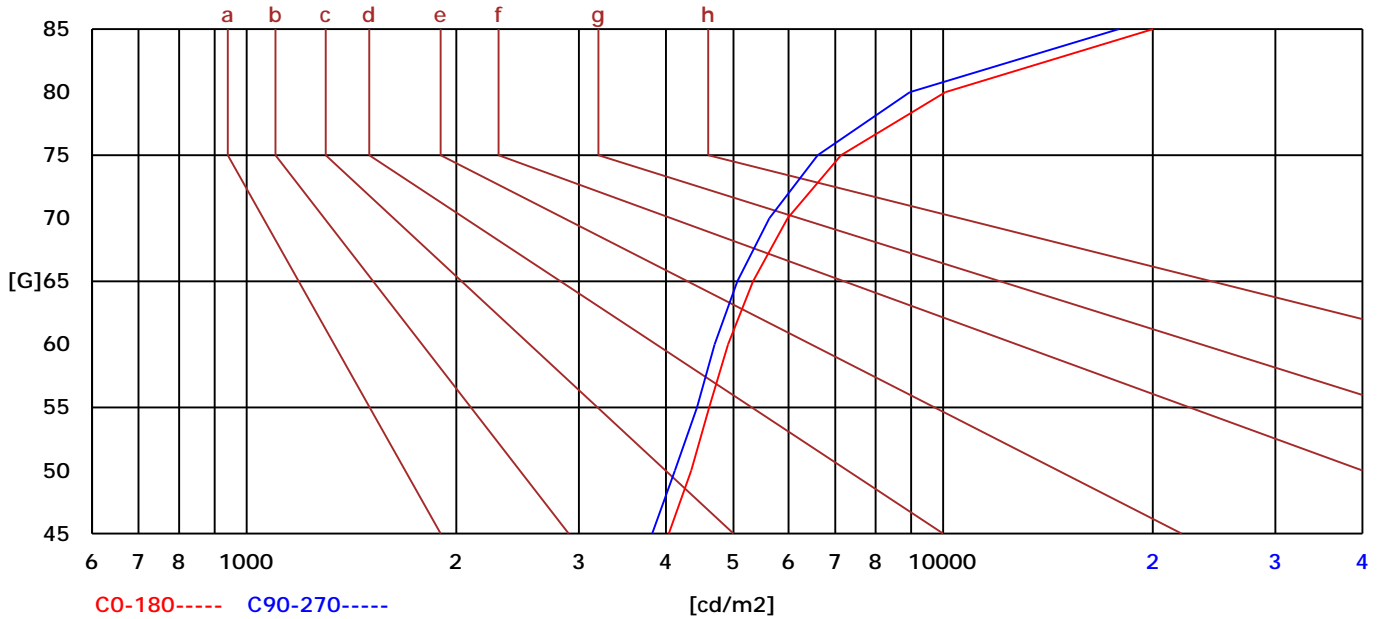
G Range: 0 - 180 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.25 m
 Remarks:

Report No.:

Test Time: 2024/6/13 9:44:53

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	4038	4350	4614	4914	5333	5982	7135	10078	20023
C90	3824	4120	4434	4701	5065	5628	6607	8959	17872
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



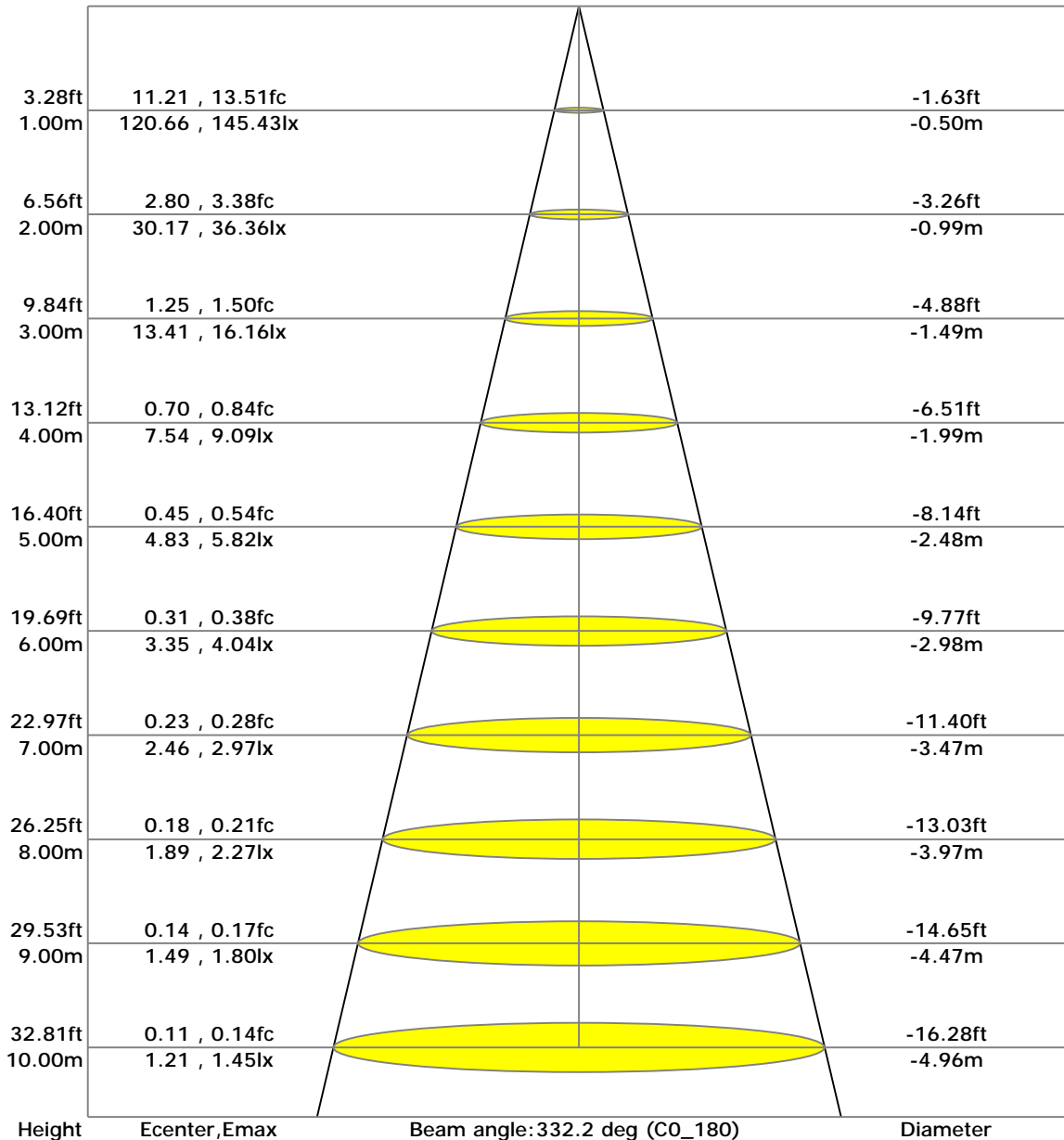
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 9:44:53

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

Report No.:

Test Time: 2024/6/13 9:44:53

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 9:44:53

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

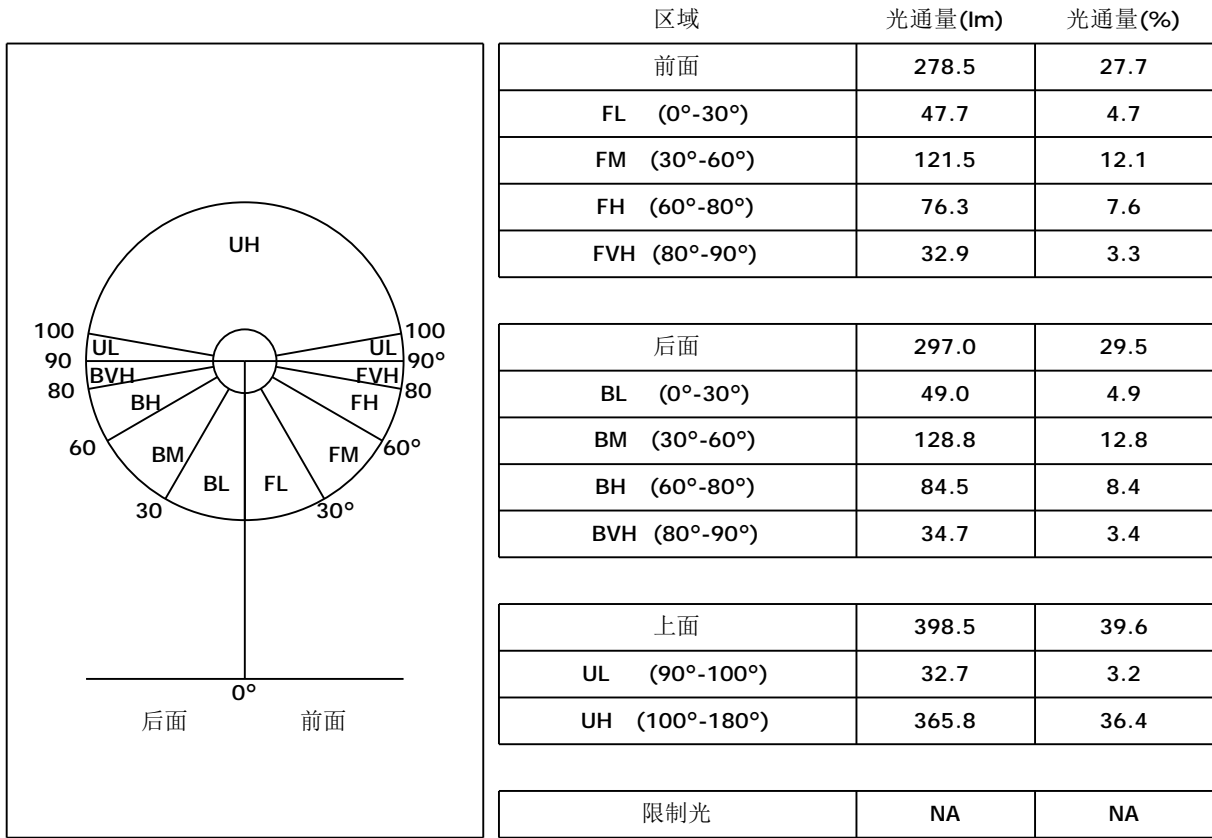
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 9:44:53

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)	B0 U3 G1
对称灯具 (Type V , Area Light)	B0 U3 G1

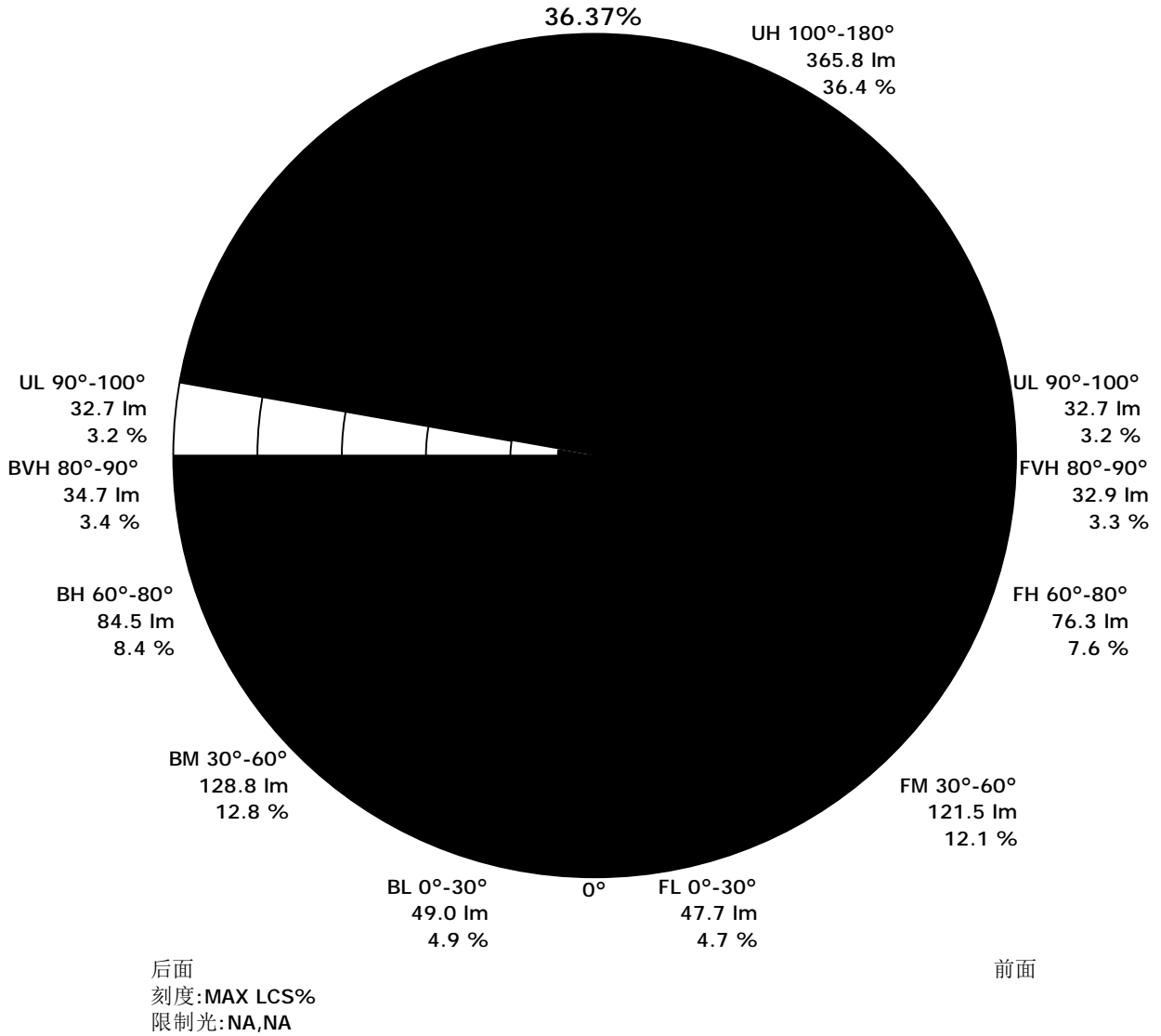
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 9:44:53

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

Report No.:

Test Time: 2024/6/13 9:44:53

LCS 图



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 9:44:53

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

Report No.:

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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	17.21	17.55	17.36	17.90	18.32	15.14	15.48	15.29	15.83	16.25
	3H	17.22	17.58	17.38	17.91	18.33	15.60	15.95	15.75	16.29	16.71
	4H	17.16	17.52	17.32	17.86	18.28	15.74	16.10	15.90	16.43	16.86
	6H	17.07	17.43	17.24	17.76	18.19	15.78	16.14	15.95	16.47	16.90
	8H	17.01	17.37	17.19	17.70	18.13	15.72	16.07	15.90	16.41	16.84
	12H	16.95	17.30	17.13	17.64	18.08	15.66	16.01	15.84	16.35	16.79
4H	2H	21.99	22.34	22.15	22.68	23.10	17.57	17.92	17.73	18.26	18.68
	3H	22.20	22.55	22.38	22.89	23.33	18.47	18.82	18.65	19.16	19.60
	4H	22.22	22.56	22.41	22.90	23.35	18.88	19.23	19.08	19.56	20.02
	6H	22.15	22.48	22.37	22.83	23.30	19.24	19.56	19.46	19.91	20.38
	8H	22.09	22.41	22.33	22.76	23.24	19.37	19.69	19.60	20.04	20.52
	12H	22.02	22.32	22.27	22.68	23.17	19.41	19.71	19.66	20.07	20.56
8H	4H	24.88	25.24	25.06	25.57	26.01	18.15	18.50	18.32	18.84	19.27
	6H	25.76	26.05	26.03	26.41	26.92	21.10	21.39	21.37	21.75	22.26
	8H	25.78	26.05	26.07	26.42	26.94	21.57	21.84	21.86	22.21	22.74
	12H	25.75	26.00	26.06	26.37	26.91	22.00	22.24	22.30	22.62	23.16
12H	4H	27.06	27.37	27.31	27.72	28.22	20.48	20.78	20.73	21.14	21.63
	6H	27.37	27.64	27.66	28.01	28.54	21.63	21.90	21.92	22.27	22.80

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
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 Test Date: 2024/6/13 9:44:53

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

Report No.:

Test Time: 2024/6/13 9:44:53

ZONAL LUMINOUS FLUX TABLE-1

Gamma [deg]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	118.87	0.00	0.00	0.00	0.00
5	118.33	2.83	2.83	0.28	0.28
10	116.55	8.38	11.21	0.83	1.11
15	114.34	13.63	24.83	1.35	2.47
20	113.74	18.76	43.59	1.86	4.33
25	114.60	23.98	67.57	2.38	6.72
30	115.31	29.13	96.71	2.90	9.61
35	115.34	33.98	130.68	3.38	12.99
40	114.52	38.31	168.99	3.81	16.80
45	112.71	41.94	210.93	4.17	20.97
50	109.01	44.52	255.45	4.43	25.40
55	103.83	45.84	301.29	4.56	29.95
60	96.80	45.76	347.05	4.55	34.50
65	88.72	44.31	391.36	4.40	38.91
70	80.19	41.90	433.25	4.17	43.07
75	71.75	38.83	472.08	3.86	46.93
80	65.09	35.75	507.84	3.55	50.49
85	61.98	34.12	541.96	3.39	53.88
90	60.65	33.46	575.42	3.33	57.21
95	59.33	32.71	608.13	3.25	60.46
100	58.77	31.93	640.06	3.17	63.63
105	60.39	31.91	671.97	3.17	66.81
110	64.15	32.94	704.91	3.27	70.08
115	67.18	33.55	738.46	3.34	73.42
120	70.23	33.67	772.13	3.35	76.76
125	73.44	33.45	805.58	3.33	80.09
130	77.09	33.04	838.62	3.28	83.37
135	80.72	32.19	870.81	3.20	86.57
140	83.11	30.53	901.33	3.04	89.61
145	83.96	27.96	929.29	2.78	92.39
150	81.74	24.36	953.66	2.42	94.81
155	75.16	19.60	973.26	1.95	96.76
160	64.61	14.29	987.55	1.42	98.18
165	53.49	9.38	996.94	0.93	99.11
170	42.87	5.50	1002.44	0.55	99.66
175	33.73	2.64	1005.07	0.26	99.92
180	33.39	0.78	1005.86	0.08	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:
 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	118.1	112.5	113.9	116.0	117.8	115.4	116.9	118.0	10	11.2	11.2	1.1	1.1
20	126.1	110.5	105.4	108.8	123.5	110.5	110.7	115.4	20	32.4	43.6	4.3	4.3
30	137.5	114.1	93.0	109.6	135.0	114.3	100.3	118.8	30	53.1	96.7	9.6	9.6
40	144.1	115.0	77.9	109.7	142.6	116.7	86.9	120.7	40	72.3	169.0	16.8	16.8
50	141.4	111.8	60.5	105.9	139.8	115.5	70.9	118.1	50	86.5	255.5	25.4	25.4
60	130.5	98.3	41.6	94.0	128.9	107.4	52.5	108.6	60	91.6	347.0	34.5	34.5
70	116.4	81.8	23.0	77.0	115.2	90.7	32.7	91.1	70	86.2	433.3	43.1	43.1
80	107.6	70.0	6.5	62.2	106.8	73.6	14.3	73.9	80	74.6	507.8	50.5	50.5
90	106.8	68.9	0.9	61.0	107.0	69.3	0.7	68.2	90	67.6	575.4	57.2	57.2
100	101.8	69.3	4.4	60.0	103.0	65.2	3.6	62.8	100	64.6	640.1	63.6	63.6
110	104.3	74.0	13.0	67.3	105.2	70.0	12.1	72.5	110	64.8	704.9	70.1	70.1
120	111.1	75.9	18.4	69.6	112.9	78.0	22.3	77.7	120	67.2	772.1	76.8	76.8
130	118.6	84.6	22.8	82.5	121.0	83.1	27.5	82.9	130	66.5	838.6	83.4	83.4
140	121.4	91.3	25.4	91.5	123.9	91.5	31.1	90.4	140	62.7	901.3	89.6	89.6
150	116.1	76.9	26.6	95.3	119.3	95.7	32.6	83.1	150	52.3	953.7	94.8	94.8
160	89.1	31.4	26.4	80.6	107.5	83.4	32.9	47.1	160	33.9	987.6	98.2	98.2
170	40.4	20.7	28.0	56.4	65.1	57.9	31.1	28.4	170	14.9	1002.4	99.7	99.7
180	23.8	0.0	0.0	0.0	24.6	38.0	37.9	33.8	180	3.4	1005.9	100.0	100.0

Conical surface Flux(90deg) : 210.9 lm

%lum = 21.0%

%lamp = 21.0%

Conical surface Flux(120deg) : 347.0 lm

%lum = 34.5%

%lamp = 34.5%

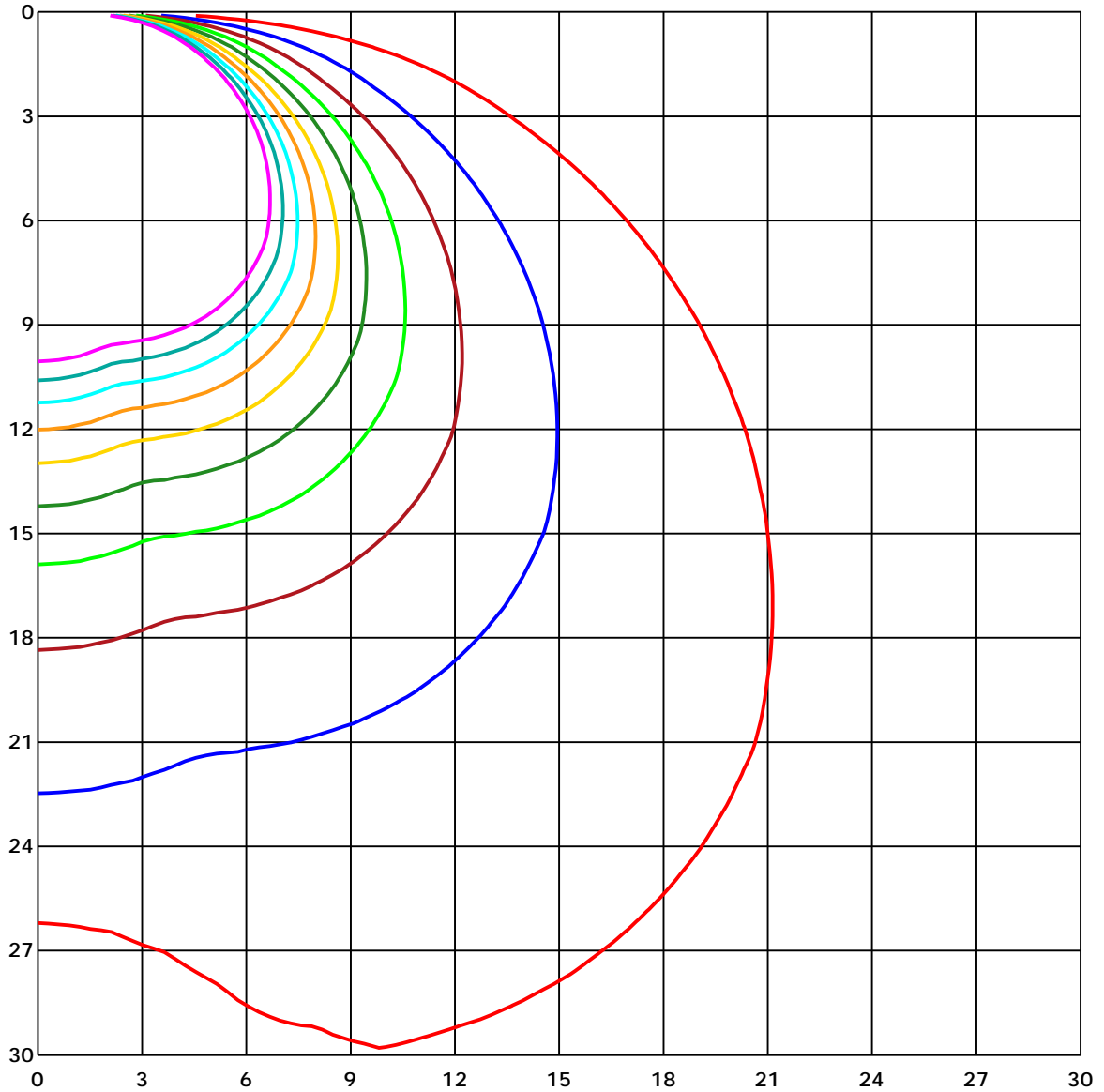
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 9:44:53

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

Report No.:

Test Time: 2024/6/13 9:44:53

SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 1.195 | — 0.597 |
| — 1.075 | — 0.478 |
| — 0.956 | — 0.358 |
| — 0.836 | — 0.239 |
| — 0.717 | — 0.119 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 9:44:53

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 9:44:53

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	120.66	116.76	118.13	119.92	120.66	116.76	118.13	119.92	120.66	
G1	120.55	116.52	117.77	119.61	120.82	116.6	118.16	119.77	120.55	
G2	120.47	116.21	117.66	119.8	120.47	116.56	118.13	119.88	120.47	
G3	120.31	116.02	117.27	119.18	120.31	116.52	118.13	119.65	120.31	
G4	120.43	115.51	117.03	118.91	120.12	116.76	118.2	119.65	120.43	
G5	119.88	115.23	116.56	118.83	119.84	116.48	118.13	119.69	119.88	
G6	119.57	114.73	116.21	118.2	119.53	116.52	118.28	119.38	119.57	
G7	119.53	114.26	115.66	117.66	119.26	116.29	117.7	119.06	119.53	
G8	118.83	113.71	115.12	117.27	118.95	115.98	117.54	118.67	118.83	
G9	118.4	113.24	114.65	116.6	118.28	115.59	117.27	118.4	118.4	
G10	118.13	112.54	113.91	116.02	117.77	115.43	116.91	118.01	118.13	
G11	117.46	111.95	113.24	115.47	117.62	115.12	116.64	117.46	117.46	
G12	117.46	111.25	112.54	114.69	116.64	114.41	116.09	117.23	117.46	
G13	117.89	110.63	111.88	113.87	116.45	113.91	115.7	116.48	117.89	
G14	118.79	109.73	111.09	113.44	117.07	113.55	114.96	116.09	118.79	
G15	120.2	109.41	110.16	112.34	117.89	112.89	114.38	115.35	120.2	
G16	120.9	109.65	109.3	111.41	118.95	112.07	113.83	114.65	120.9	
G17	122.07	109.73	108.55	110.66	119.77	111.6	113.13	114.53	122.07	
G18	123.52	109.88	107.42	109.8	120.98	110.9	112.38	114.88	123.52	
G19	124.88	110.16	106.45	109.1	122.11	110.43	111.76	115.0	124.88	
G20	126.05	110.51	105.43	108.79	123.52	110.47	110.74	115.39	126.05	
G21	127.19	110.82	104.38	108.63	124.61	110.9	109.77	115.82	127.19	
G22	128.4	111.29	103.52	108.91	125.74	110.82	109.02	116.02	128.4	
G23	129.65	111.8	102.11	108.98	126.99	111.21	107.97	116.56	129.65	
G24	131.09	111.91	100.94	108.98	128.4	111.76	107.03	116.72	131.09	
G25	132.19	112.19	99.88	109.18	129.3	111.99	105.94	117.11	132.19	
G26	133.36	112.66	98.52	109.26	130.59	112.66	105.04	117.81	133.36	
G27	134.38	113.09	97.11	109.38	131.6	112.93	103.67	117.89	134.38	
G28	135.59	113.36	95.78	109.38	132.93	113.52	102.54	118.32	135.59	
G29	136.72	114.02	94.41	109.61	133.79	113.75	101.45	118.71	136.72	
G30	137.5	114.06	93.01	109.65	135.04	114.26	100.27	118.83	137.5	
G31	138.4	114.26	91.56	110.08	136.13	114.65	99.14	119.22	138.4	
G32	139.34	114.53	90.12	110.08	137.11	114.92	97.97	119.3	139.34	
G33	140.04	114.77	88.63	110.08	137.66	115.39	96.52	119.53	140.04	
G34	140.78	115.04	87.42	110.16	138.63	115.63	95.2	119.84	140.78	
G35	141.56	115.04	85.63	110.23	139.26	116.21	94.1	120.04	141.56	
G36	142.23	115.31	84.26	110.23	140.31	116.25	92.58	120.23	142.23	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 9:44:53

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 9:44:53

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	142.7	115.35	82.54	110.16	140.66	116.29	90.98	120.39	142.7	
G38	143.48	115.27	80.98	109.96	141.6	116.56	89.53	120.59	143.48	
G39	143.83	115.23	79.45	109.88	141.8	116.76	88.44	120.74	143.83	
G40	144.14	115.04	77.85	109.73	142.62	116.68	86.88	120.74	144.14	
G41	144.61	115.0	76.13	109.61	143.05	116.95	85.43	120.59	144.61	
G42	144.77	114.92	74.53	109.45	143.2	116.88	84.02	120.31	144.77	
G43	144.96	114.53	72.93	108.87	143.48	116.88	82.58	120.2	144.96	
G44	145.43	114.34	71.25	108.71	143.67	116.95	81.17	120.2	145.43	
G45	145.08	114.22	69.45	108.16	143.83	116.68	79.45	119.92	145.08	
G46	144.49	113.75	67.77	108.2	142.97	116.72	77.89	119.77	144.49	
G47	143.71	113.48	66.09	107.62	142.42	116.45	76.17	119.41	143.71	
G48	142.97	112.85	64.18	107.07	141.48	116.33	74.38	118.98	142.97	
G49	142.27	112.34	62.46	106.45	141.13	116.05	72.7	118.67	142.27	
G50	141.41	111.84	60.51	105.94	139.84	115.55	70.94	118.13	141.41	
G51	140.51	111.05	58.67	105.31	139.26	115.31	69.18	117.5	140.51	
G52	139.53	110.08	56.84	104.57	138.28	115.16	67.46	117.07	139.53	
G53	138.52	108.63	54.88	103.79	136.95	114.49	65.59	116.45	138.52	
G54	137.38	107.54	53.05	102.93	136.02	114.06	63.75	115.9	137.38	
G55	136.41	105.86	51.09	101.72	134.8	113.44	61.91	115.02	136.41	
G56	135.27	104.41	49.3	100.31	133.87	112.58	60.12	114.14	135.27	
G57	133.98	102.93	47.27	98.75	132.58	111.52	58.28	113.05	133.98	
G58	133.01	101.48	45.31	97.34	131.37	110.39	56.29	111.45	133.01	
G59	131.8	99.92	43.44	95.63	130.16	108.98	54.45	110.0	131.8	
G60	130.51	98.28	41.56	94.02	128.87	107.38	52.54	108.55	130.51	
G61	128.98	96.91	39.61	92.3	127.54	106.09	50.66	106.8	128.98	
G62	127.85	95.12	37.73	90.78	126.05	104.53	48.67	105.16	127.85	
G63	126.25	93.55	35.9	89.1	124.73	102.85	46.68	103.71	126.25	
G64	124.96	92.07	34.02	87.3	123.59	101.13	44.73	101.95	124.96	
G65	123.63	90.16	32.07	85.63	122.07	99.53	42.77	100.12	123.63	
G66	121.99	88.59	30.23	84.1	120.9	98.05	40.82	98.16	121.99	
G67	120.59	87.07	28.4	82.19	119.34	96.05	38.75	96.41	120.59	
G68	119.22	85.16	26.64	80.39	118.05	94.3	36.72	94.57	119.22	
G69	117.89	83.44	24.92	78.71	116.56	92.66	34.73	92.62	117.89	
G70	116.41	81.84	23.05	76.99	115.16	90.74	32.73	91.05	116.41	
G71	115.0	80.31	21.21	75.12	114.02	88.95	30.78	89.1	115.0	
G72	113.63	78.55	19.53	73.59	112.46	87.07	28.95	87.19	113.63	
G73	112.34	77.03	17.73	71.76	111.25	85.43	26.99	85.31	112.34	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 9:44:53

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 9:44:53

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G74	110.9	75.35	15.98	70.08	109.65	83.52	25.16	83.4	110.9	
G75	109.73	73.87	14.22	68.4	108.59	81.84	23.2	81.68	109.73	
G76	108.55	72.38	12.62	66.72	107.15	80.08	21.48	79.88	108.55	
G77	107.46	71.02	11.05	65.16	106.21	78.4	19.53	78.13	107.46	
G78	107.46	70.2	9.45	63.87	106.17	76.68	17.81	76.41	107.46	
G79	107.46	70.0	7.97	62.58	106.6	75.31	15.98	74.8	107.46	
G80	107.62	70.0	6.48	62.23	106.84	73.59	14.26	73.87	107.62	
G81	107.58	70.04	5.16	62.23	107.27	72.23	12.58	71.99	107.58	
G82	107.66	70.2	3.83	62.15	107.27	70.82	10.98	70.7	107.66	
G83	107.7	69.84	2.66	62.15	107.27	69.73	9.45	69.88	107.7	
G84	107.77	69.84	1.6	62.15	107.34	69.41	7.93	69.77	107.77	
G85	107.66	69.8	1.29	62.3	107.5	69.57	6.52	69.69	107.66	
G86	107.58	69.77	1.17	61.95	107.58	69.61	5.2	69.57	107.58	
G87	107.42	69.65	1.09	61.68	107.38	69.41	3.83	69.3	107.42	
G88	107.34	69.3	1.02	61.52	107.42	69.49	2.66	68.95	107.34	
G89	107.19	69.1	0.98	61.29	107.19	69.41	1.48	68.59	107.19	
G90	106.84	68.95	0.94	61.02	107.03	69.34	0.7	68.16	106.84	
G91	106.48	68.63	0.86	60.59	107.11	69.22	0.63	67.58	106.48	
G92	106.13	68.36	0.82	60.2	106.68	68.98	0.7	67.03	106.13	
G93	105.74	68.09	0.82	59.77	106.41	68.75	0.74	66.48	105.74	
G94	105.27	67.89	1.13	59.34	106.05	68.44	0.78	65.74	105.27	
G95	104.8	67.62	1.41	58.91	105.7	68.16	0.86	65.2	104.8	
G96	104.26	67.5	1.88	58.48	105.23	67.62	1.09	64.41	104.26	
G97	103.71	67.3	2.46	58.36	104.69	66.99	1.68	63.95	103.71	
G98	103.05	68.05	3.09	58.87	104.22	66.37	2.34	63.32	103.05	
G99	102.77	68.59	3.71	59.38	103.79	65.86	3.01	63.05	102.77	
G100	101.76	69.34	4.38	59.96	102.97	65.16	3.59	62.77	101.76	
G101	101.25	70.23	5.04	60.74	102.3	64.57	4.22	62.97	101.25	
G102	100.51	71.17	5.82	61.37	101.48	64.41	4.88	63.71	100.51	
G103	100.51	71.88	6.64	62.27	101.52	64.77	5.63	64.57	100.51	
G104	100.86	72.62	7.54	63.2	101.84	65.27	6.45	65.35	100.86	
G105	101.21	73.52	8.4	64.06	102.3	66.02	7.3	66.21	101.21	
G106	101.84	73.91	9.34	65.12	102.81	66.72	8.24	67.15	101.84	
G107	102.38	74.22	10.31	66.13	103.32	67.42	9.14	68.4	102.38	
G108	103.13	74.38	11.17	66.72	103.91	68.13	10.08	69.88	103.13	
G109	103.59	74.38	12.15	67.11	104.61	68.98	11.13	71.25	103.59	
G110	104.3	74.02	12.97	67.3	105.23	69.96	12.07	72.54	104.3	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 9:44:53

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 9:44:53

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G111	104.77	73.79	13.63	67.23	106.05	71.21	13.09	73.28	104.77	
G112	105.55	73.55	14.34	67.07	106.45	72.23	14.18	74.22	105.55	
G113	106.17	73.4	14.84	66.68	107.3	73.36	15.23	75.2	106.17	
G114	106.88	73.44	15.47	66.6	107.97	74.77	16.25	76.09	106.88	
G115	107.62	73.55	15.9	66.48	108.75	75.78	17.42	76.95	107.62	
G116	108.44	73.59	16.41	66.64	109.53	76.37	18.52	77.46	108.44	
G117	109.14	73.91	16.99	67.11	110.35	76.88	19.53	77.54	109.14	
G118	109.73	74.3	17.46	67.62	111.17	77.3	20.55	77.7	109.73	
G119	110.51	75.08	17.93	68.59	112.93	77.7	21.45	77.7	110.51	
G120	111.13	75.94	18.44	69.57	112.85	77.97	22.27	77.66	111.13	
G121	111.45	76.91	18.79	70.86	113.44	78.52	22.93	77.77	111.45	
G122	111.68	77.93	19.26	72.07	114.26	78.71	23.59	78.05	111.68	
G123	112.38	79.06	19.69	73.55	114.88	79.1	24.1	78.75	112.38	
G124	113.4	80.0	20.16	74.84	115.7	79.53	24.69	79.18	113.4	
G125	114.18	80.78	20.51	75.98	116.68	79.96	25.16	80.12	114.18	
G126	115.2	81.48	20.94	77.27	117.34	80.59	25.7	80.59	115.2	
G127	116.05	82.3	21.37	78.59	118.36	81.29	26.13	81.02	116.05	
G128	116.99	82.89	21.84	79.73	119.3	81.95	26.68	81.6	116.99	
G129	117.77	83.67	22.34	81.02	120.04	82.62	27.07	82.19	117.77	
G130	118.59	84.65	22.77	82.46	120.98	83.09	27.46	82.93	118.59	
G131	119.34	85.31	23.24	83.4	121.95	84.53	27.93	83.48	119.34	
G132	120.47	86.29	23.71	84.77	122.66	84.61	28.28	84.22	120.47	
G133	120.94	87.03	24.02	85.55	123.16	85.63	28.59	85.08	120.94	
G134	121.52	87.77	24.38	86.68	123.79	86.64	28.98	85.98	121.52	
G135	121.84	88.67	24.65	87.66	124.22	87.54	29.34	87.03	121.84	
G136	121.95	89.3	24.8	88.48	124.3	88.4	29.65	87.73	121.95	
G137	122.11	90.08	25.0	89.41	124.18	89.38	29.96	88.44	122.11	
G138	121.91	90.39	25.2	90.2	124.06	90.04	30.31	89.22	121.91	
G139	121.84	91.13	25.27	90.82	124.3	90.9	30.7	89.92	121.84	
G140	121.45	91.29	25.43	91.52	123.91	91.52	31.05	90.35	121.45	
G141	121.52	91.6	25.63	92.27	123.59	92.42	31.37	90.86	121.52	
G142	120.94	91.76	25.7	92.81	123.32	92.97	31.64	91.13	120.94	
G143	120.51	91.8	25.9	93.55	123.09	93.55	31.84	91.33	120.51	
G144	120.31	91.64	26.02	93.91	122.62	93.91	31.95	91.37	120.31	
G145	120.0	90.47	26.17	94.53	122.23	94.45	32.03	91.29	120.0	
G146	119.45	88.95	26.29	94.96	121.64	94.84	32.19	90.86	119.45	
G147	118.83	86.68	26.45	95.16	121.17	95.51	32.19	89.73	118.83	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 9:44:53

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 9:44:53

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G148	118.16	84.14	26.48	95.31	120.55	95.51	32.34	87.89	118.16	
G149	117.15	80.86	26.56	95.39	120.0	95.7	32.5	85.74	117.15	
G150	116.09	76.88	26.6	95.31	119.34	95.7	32.58	83.13	116.09	
G151	115.0	72.34	26.68	95.0	118.48	95.98	32.66	80.51	115.0	
G152	113.91	67.66	26.72	94.26	117.58	95.39	32.89	77.38	113.91	
G153	112.54	62.62	26.68	93.67	116.6	95.0	32.89	74.22	112.54	
G154	110.7	57.38	26.76	92.62	115.59	94.22	32.93	71.09	110.7	
G155	108.36	52.23	26.68	91.37	114.65	93.28	32.97	67.3	108.36	
G156	105.27	47.3	26.68	89.49	113.44	91.68	33.01	63.36	105.27	
G157	101.64	42.7	26.6	87.66	112.19	90.08	33.01	59.14	101.64	
G158	97.85	38.48	26.52	85.51	111.09	88.09	32.97	55.04	97.85	
G159	93.55	34.8	26.56	83.09	109.3	85.86	32.93	50.82	93.55	
G160	89.06	31.45	26.37	80.59	107.46	83.36	32.93	47.07	89.06	
G161	84.69	28.63	26.17	77.93	104.92	80.86	32.85	43.55	84.69	
G162	80.04	26.41	26.09	75.23	102.27	78.16	32.85	40.55	80.04	
G163	75.27	24.88	26.02	72.97	99.38	75.23	32.7	37.73	75.27	
G164	70.9	24.02	25.7	70.7	95.86	72.42	32.58	35.7	70.9	
G165	65.78	23.32	25.51	68.48	91.29	69.77	32.34	33.95	65.78	
G166	60.94	22.66	25.27	66.33	86.33	67.3	32.23	32.23	60.94	
G167	56.02	22.11	25.43	63.87	81.13	65.08	31.95	30.86	56.02	
G168	50.2	21.64	26.09	61.48	75.63	62.85	31.76	29.61	50.2	
G169	44.92	21.17	27.07	58.95	70.51	60.2	31.37	28.79	44.92	
G170	40.35	20.7	28.05	56.45	65.08	57.93	31.09	28.36	40.35	
G171	36.37	20.35	29.1	53.98	58.09	55.86	30.74	27.93	36.37	
G172	32.5	20.43	30.31	51.68	49.84	53.52	30.82	27.46	32.5	
G173	28.75	21.13	31.37	49.3	41.56	50.9	31.6	26.91	28.75	
G174	25.55	22.73	32.58	46.95	34.02	48.32	32.77	26.88	25.55	
G175	23.87	24.88	33.63	44.65	28.79	46.09	34.1	27.54	23.87	
G176	23.63	27.38	34.92	42.19	26.25	44.18	35.2	28.48	23.63	
G177	23.59	30.04	35.9	39.92	25.27	43.01	35.86	29.53	23.59	
G178	23.55	32.89	37.11	38.09	24.65	41.91	36.52	30.7	23.55	
G179	23.59	35.82	37.5	36.17	24.3	40.59	37.11	32.07	23.59	
G180	23.85	0.0	0.0	0.0	24.62	37.97	37.87	33.83	23.85	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 9:44:53

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks: