

Report No.: MSTLAB241102034

Test Time: 2024/11/2

## Luminaire Property

Luminaire Manufacturer: MESTER

Luminaire Category: ALL012F

Luminaire Description: MALL012F20W27V35K(Up25%-Down-75% )

Lamp Catalog:

Number of Lamps: 1

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.165 A

Power Factor: 0.995

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 63

Voltage: 120.1 V

Power: 19.71 W

## Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 2675.8 lm

Downward Ratio: 73%

Horizontal Diffuse Angle(10%,50%,75%,100%): H159.8,H108.5,H72.1,H1

Vertical Diffuse Angle(10%,50%,75%,100%): V160.2,V109.7,V73.4,V0

Luminous Efficacy (lm/w): 135.76

Max. Intensity: 714.5 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 2675.8 lm

Efficiency: 100%

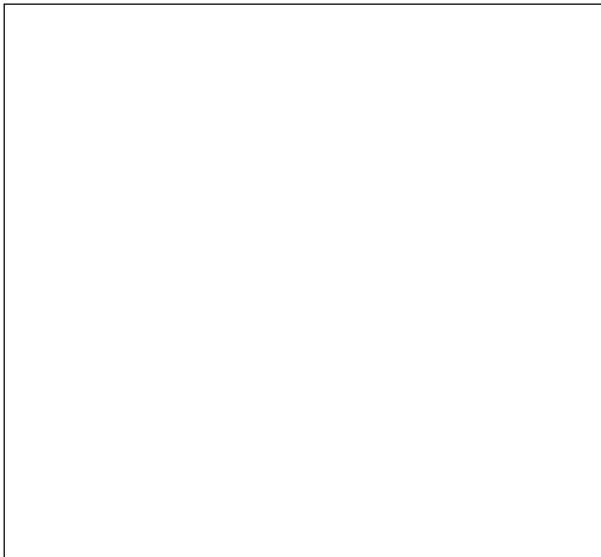
Upward Ratio: 27%

C0r0 Intensity: 713.45 cd

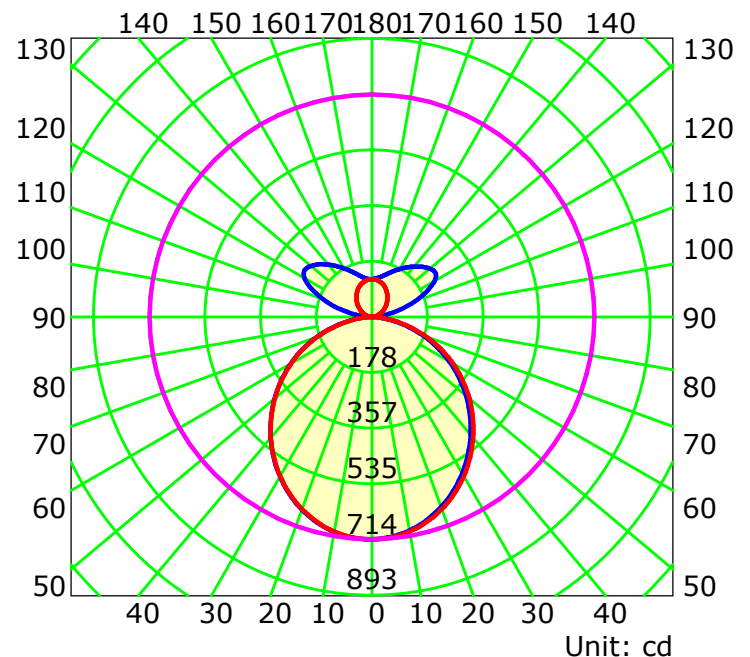
Pos of Max. Intensity: H165 V1

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 109.1°

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 15.0

Test Lab: MESTER LAB

Test Type: TYPE C

Temperature: 25.5°C

Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0

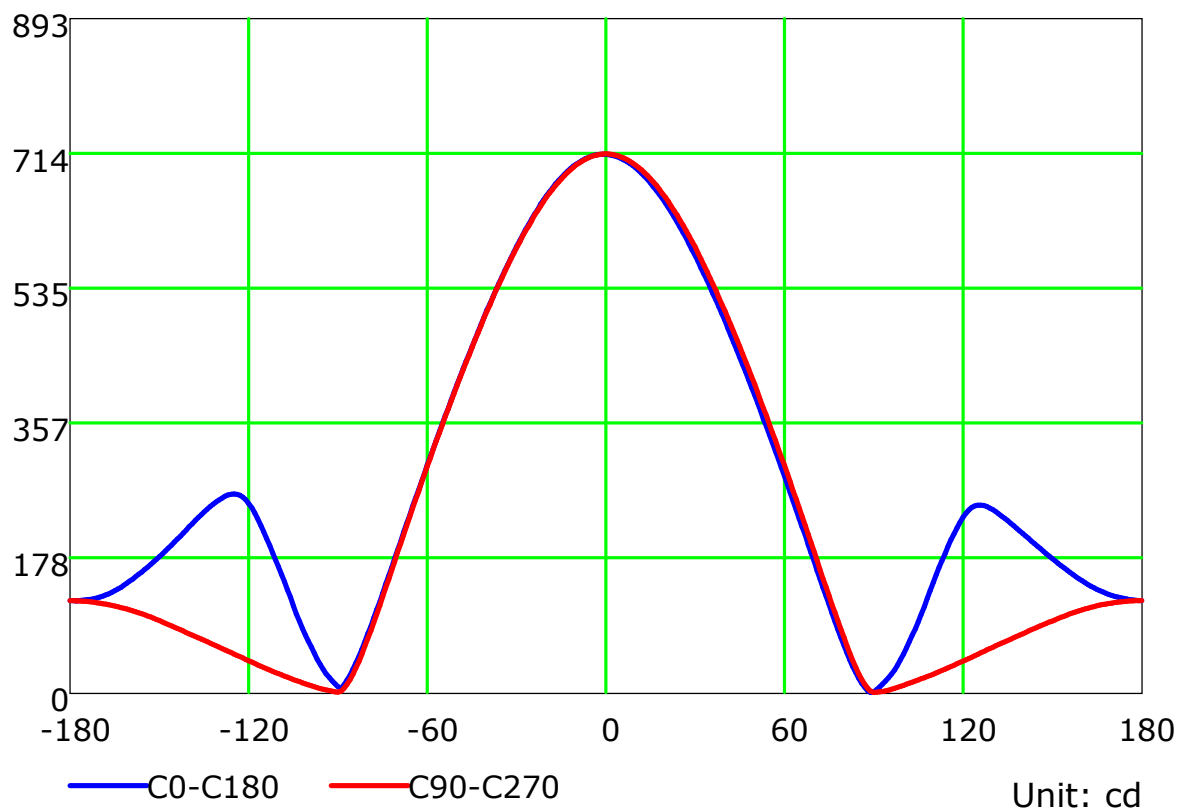
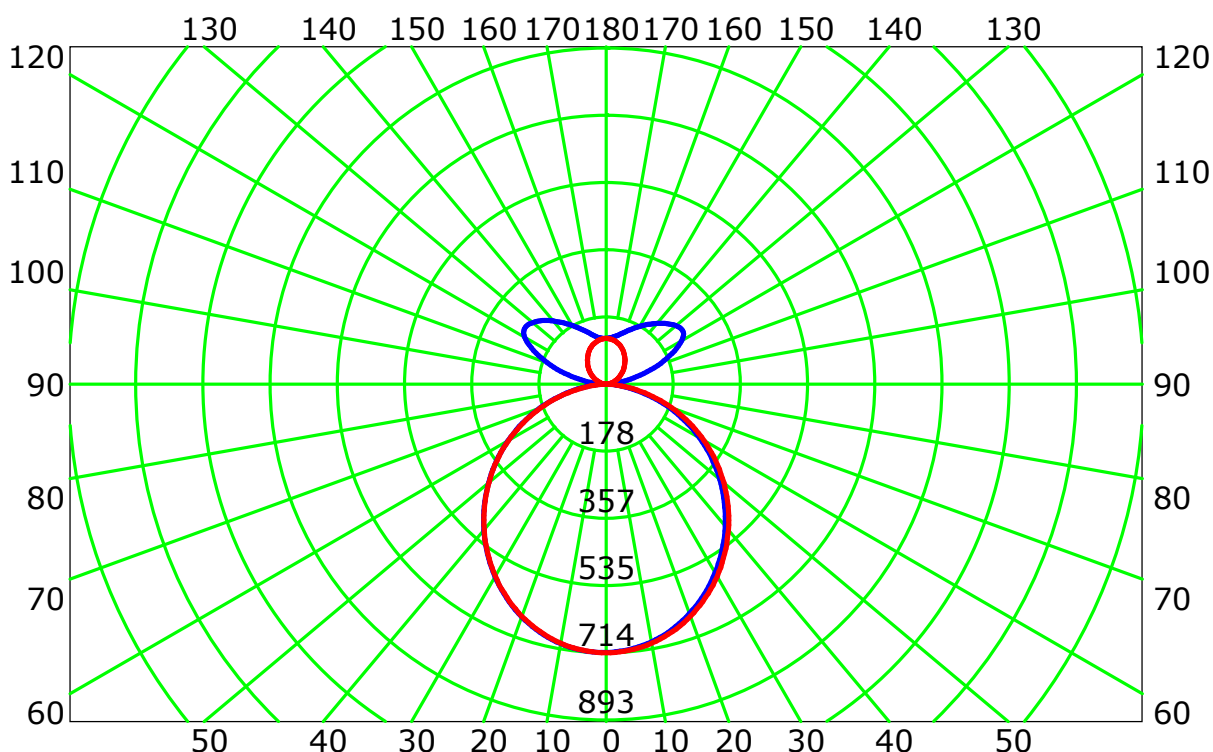
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity: 45% R.H

Inspector:

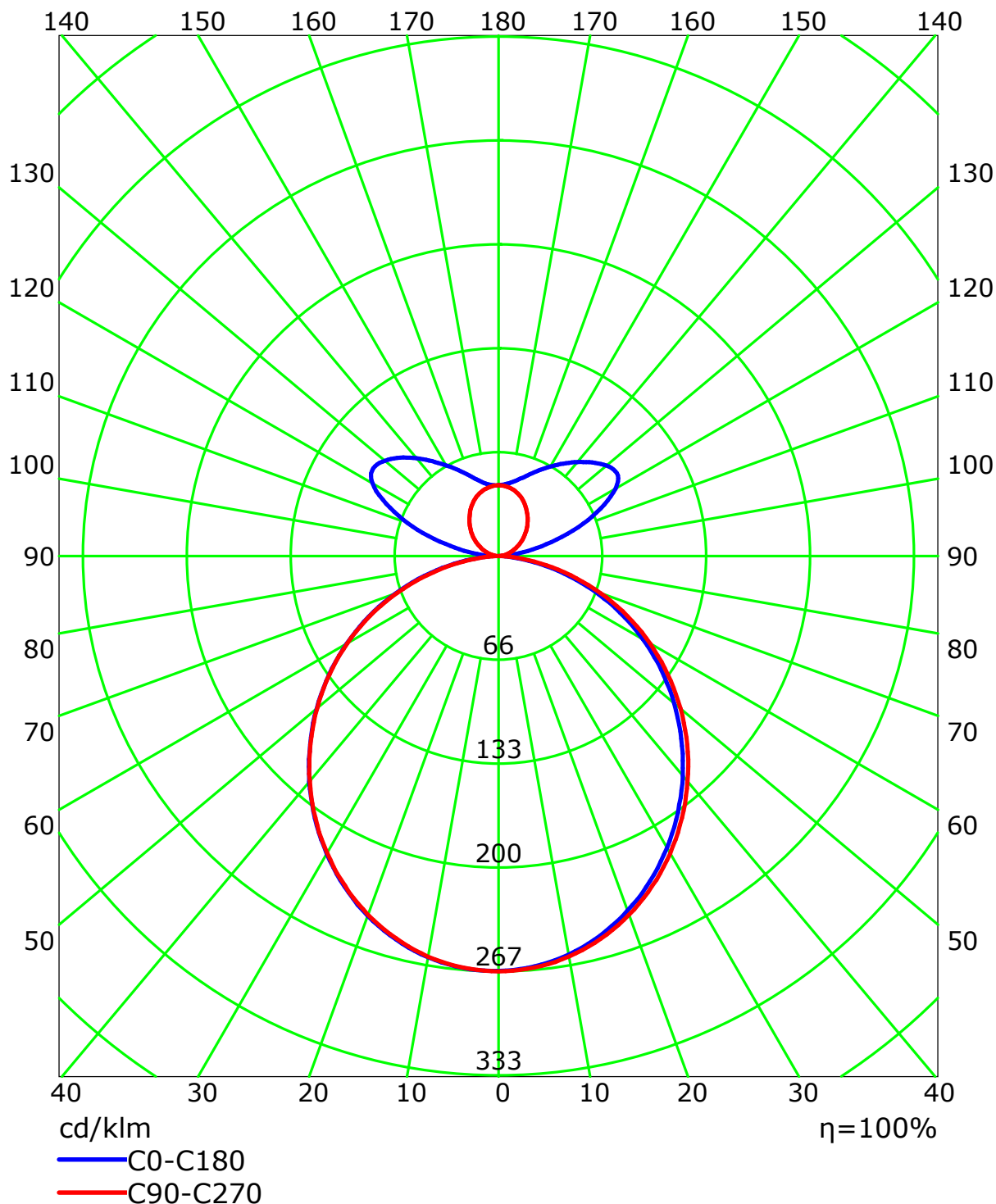
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5°C  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

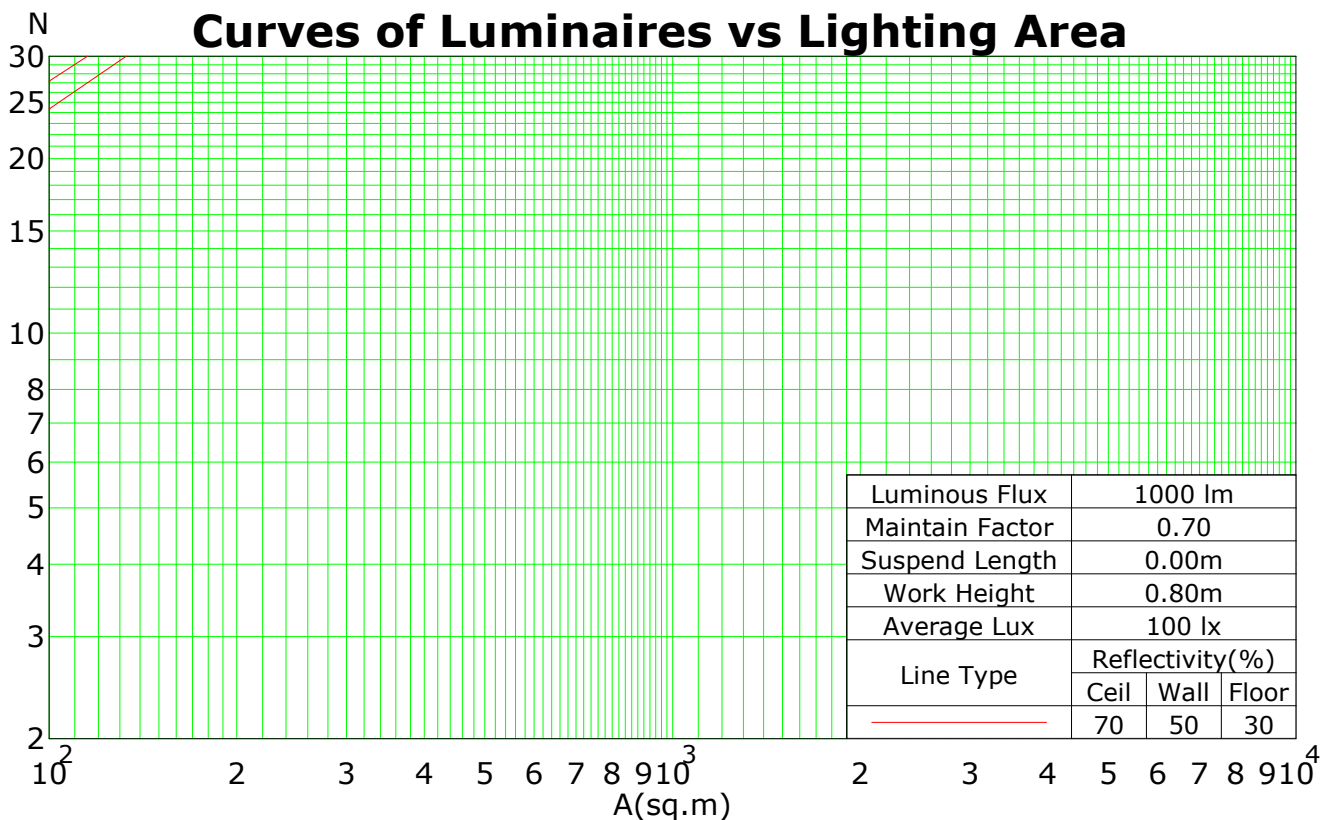
## Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.13	1.13	1.13	1.13	1.07	1.07	1.07	1.07	0.96	0.96	0.96	0.86	0.86	0.86	0.77	0.77	0.77	0.73
1	1.03	0.98	0.94	0.91	0.97	0.93	0.90	0.87	0.84	0.82	0.79	0.76	0.74	0.72	0.68	0.67	0.65	0.61
2	0.94	0.86	0.79	0.74	0.89	0.82	0.76	0.71	0.74	0.69	0.65	0.67	0.63	0.60	0.60	0.57	0.55	0.51
3	0.85	0.75	0.68	0.61	0.81	0.72	0.65	0.59	0.65	0.59	0.55	0.59	0.54	0.50	0.53	0.49	0.46	0.43
4	0.78	0.67	0.58	0.52	0.74	0.64	0.56	0.50	0.58	0.51	0.47	0.52	0.47	0.43	0.47	0.43	0.40	0.37
5	0.72	0.59	0.51	0.45	0.68	0.57	0.49	0.43	0.52	0.45	0.40	0.47	0.42	0.37	0.42	0.38	0.35	0.32
6	0.66	0.53	0.45	0.39	0.62	0.51	0.43	0.37	0.47	0.40	0.35	0.42	0.37	0.33	0.39	0.34	0.30	0.28
7	0.61	0.48	0.40	0.34	0.58	0.46	0.38	0.33	0.42	0.36	0.31	0.39	0.33	0.29	0.35	0.31	0.27	0.25
8	0.57	0.44	0.36	0.30	0.54	0.42	0.35	0.29	0.39	0.32	0.28	0.35	0.30	0.26	0.32	0.28	0.24	0.22
9	0.53	0.40	0.32	0.27	0.50	0.39	0.31	0.26	0.35	0.29	0.25	0.33	0.27	0.23	0.30	0.25	0.22	0.20
10	0.50	0.37	0.29	0.24	0.47	0.35	0.28	0.24	0.33	0.27	0.22	0.30	0.25	0.21	0.28	0.23	0.20	0.18

Spacing Criteria (0-180): 1.22

Spacing Criteria (90-270): 1.23

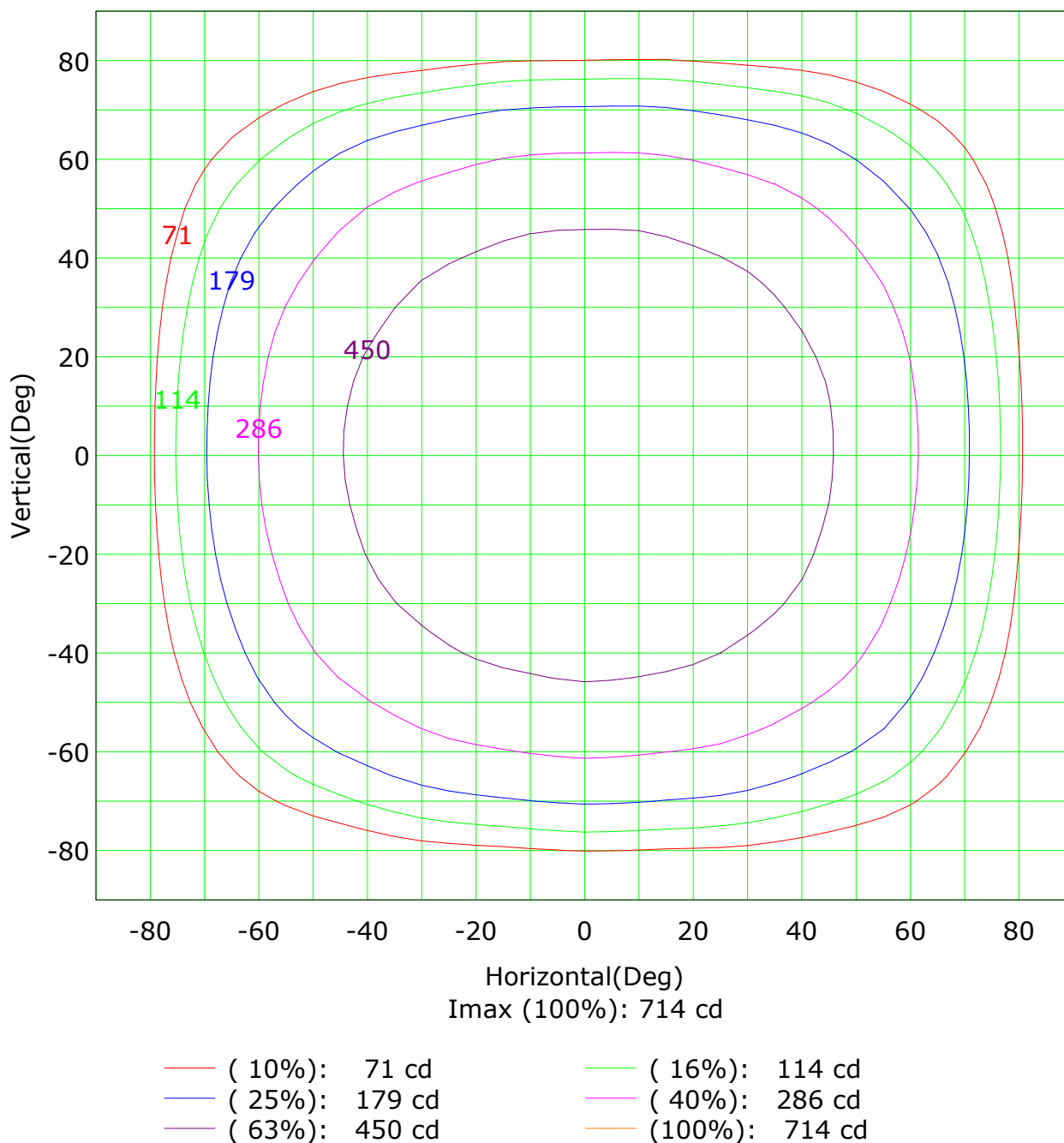
Spacing Criteria (Diagonal): 1.35



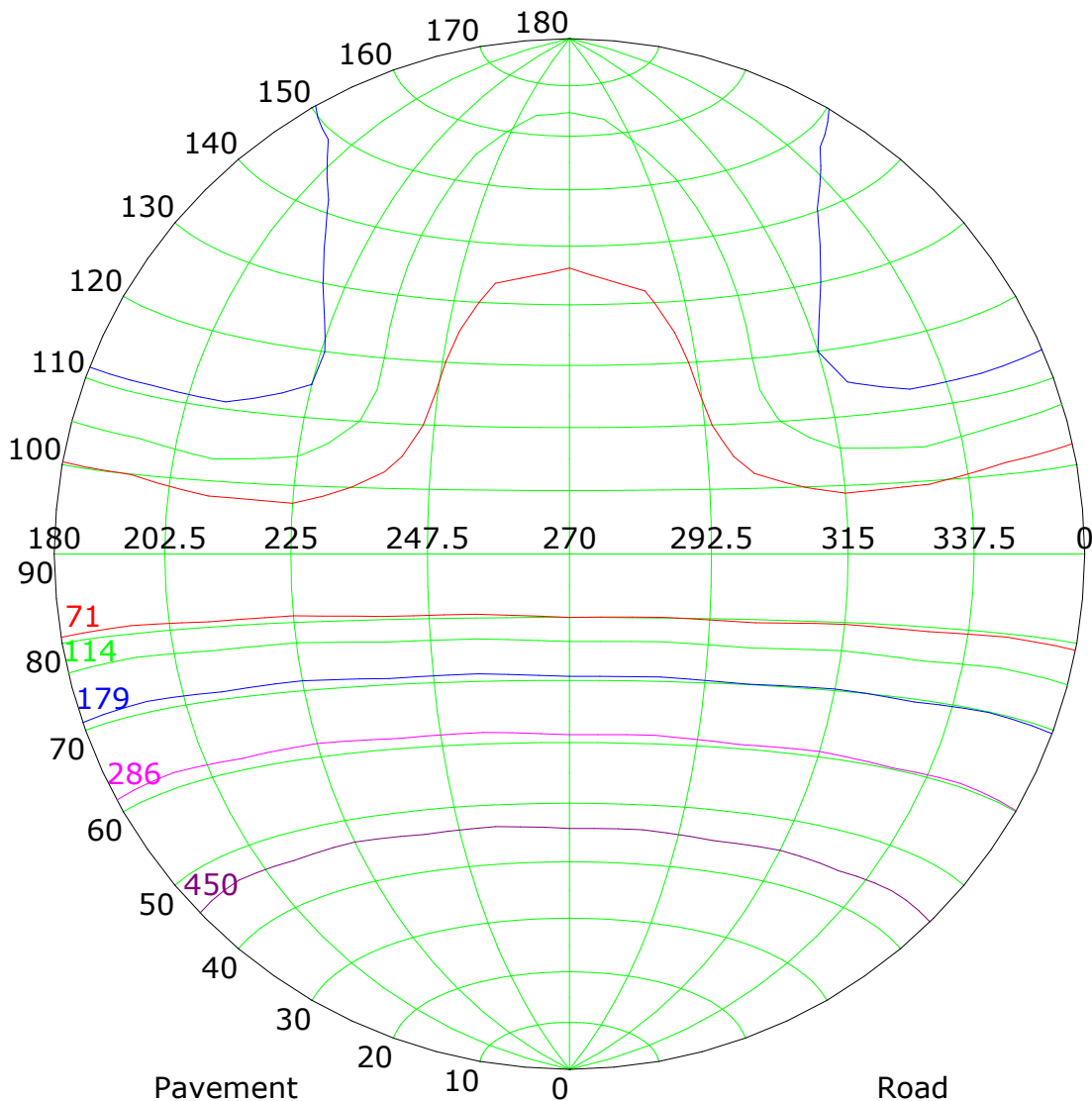
C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5°C  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Isocandela (rectangle)



## Isocandela (sphere)



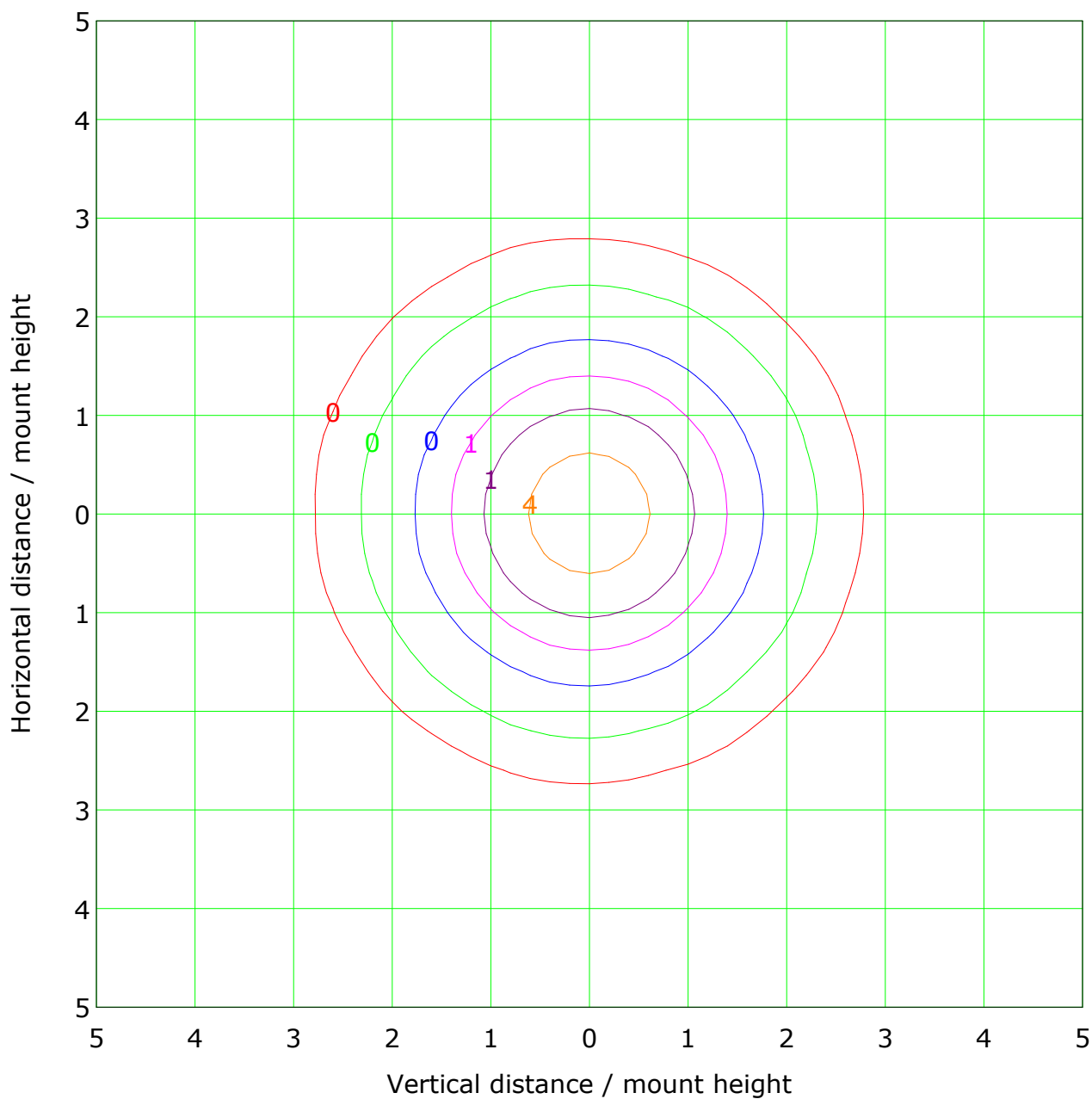
Imax (100%): 714 cd

( 10%): 71 cd	( 16%): 114 cd
( 25%): 179 cd	( 40%): 286 cd
( 63%): 450 cd	(100%): 714 cd

CIE: narrow - short  
CIE: Semi-cut-off luminaire  
Max.At90: 6.171 cd/klm

IES: Cut-off  
Max.At80: 30.331 cd/klm  
Max.80-90: 30.331 cd/klm

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 7.1 lx

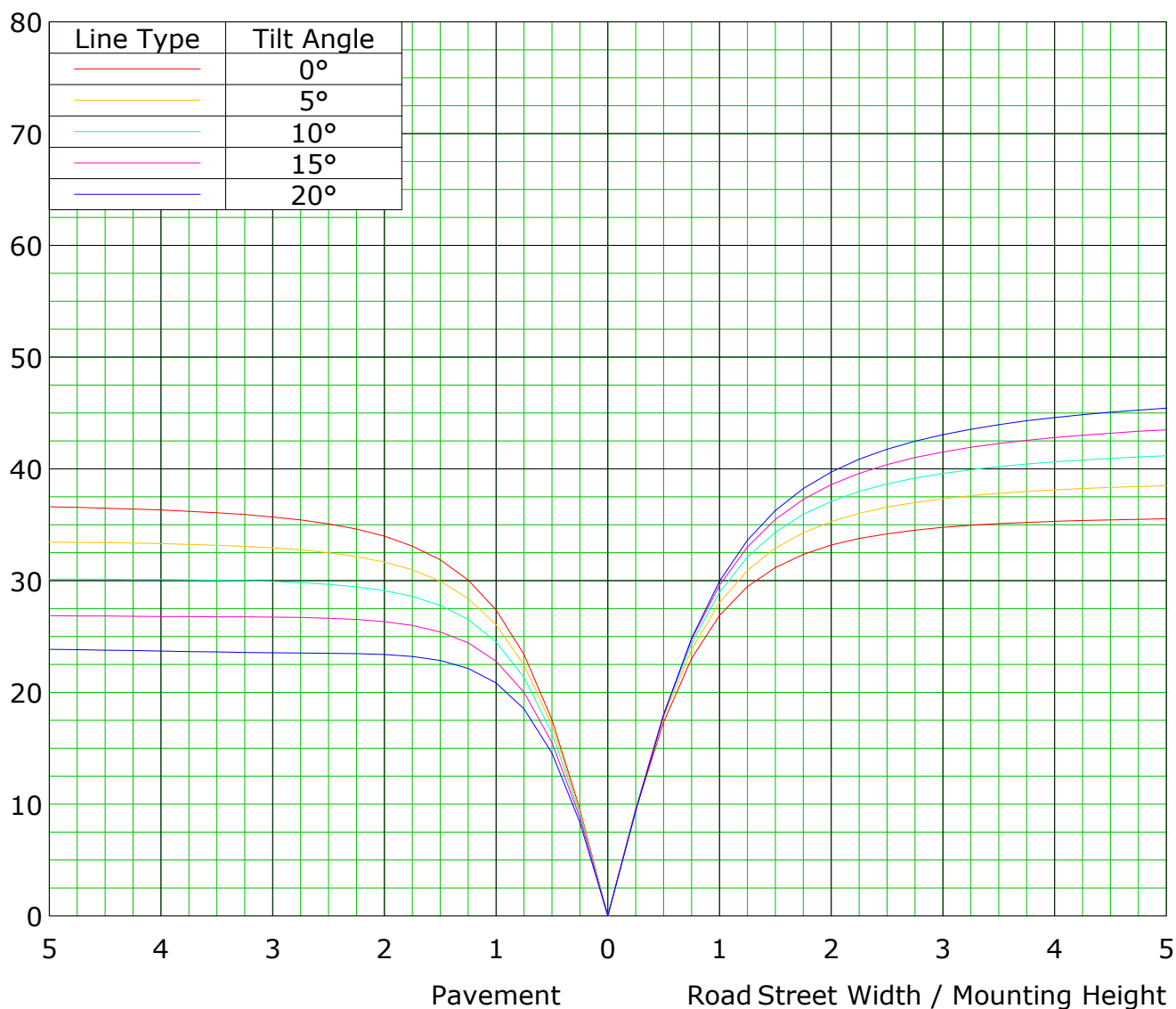
( 1%): 0.1 lx	( 2%): 0.1 lx
( 5%): 0.4 lx	( 10%): 0.7 lx
( 20%): 1.4 lx	( 50%): 3.6 lx
(100%): 7.1 lx	

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Roadway CU Curve

Efficiency(%)



C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5°C  
Operator: Yanzhao Sun

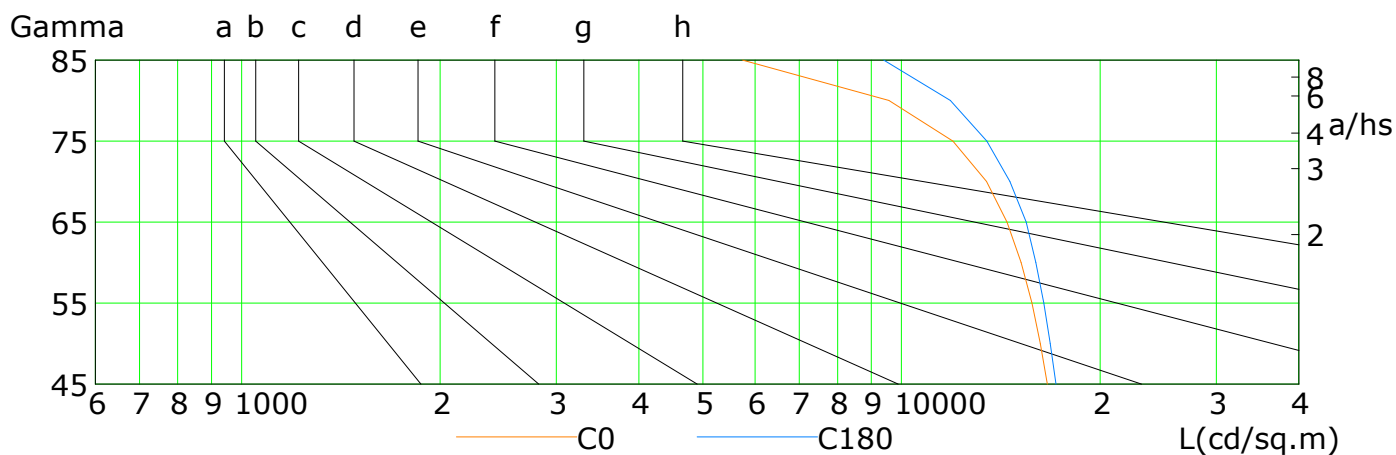
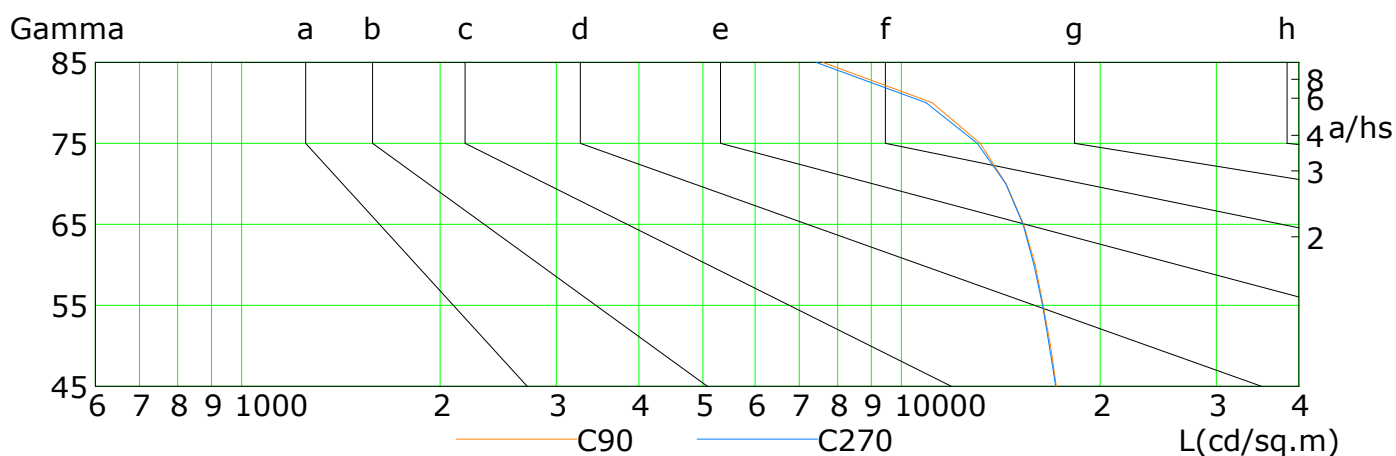
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:



## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h

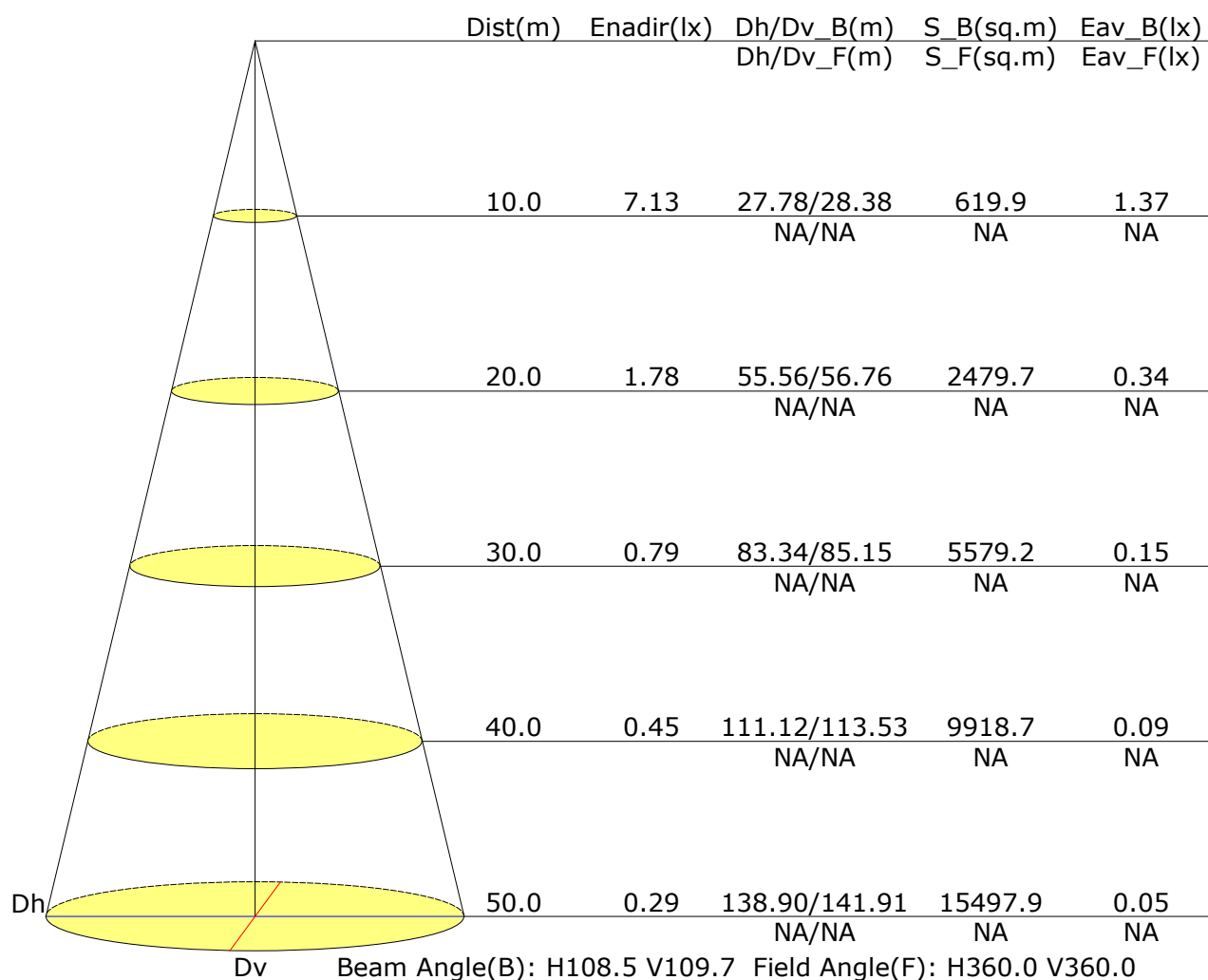


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	16631	16231	15762	15176	14445	13447	11970	9566	5743
C90	17161	16824	16396	15946	15319	14409	13159	11124	7593
C180	17149	16810	16431	15982	15448	14601	13470	11858	9401
C270	17125	16752	16362	15880	15274	14385	13021	10894	7418

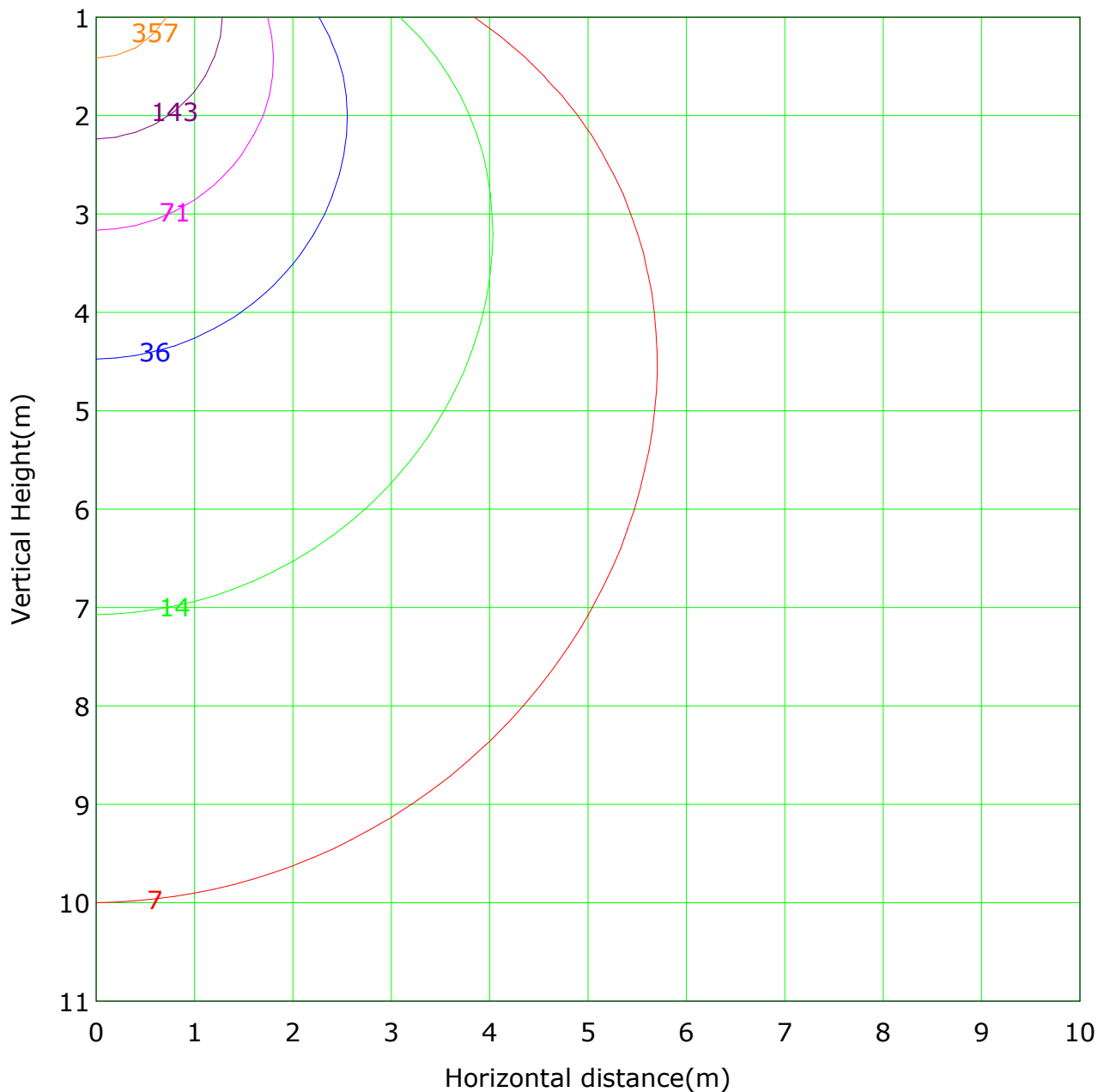
C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot

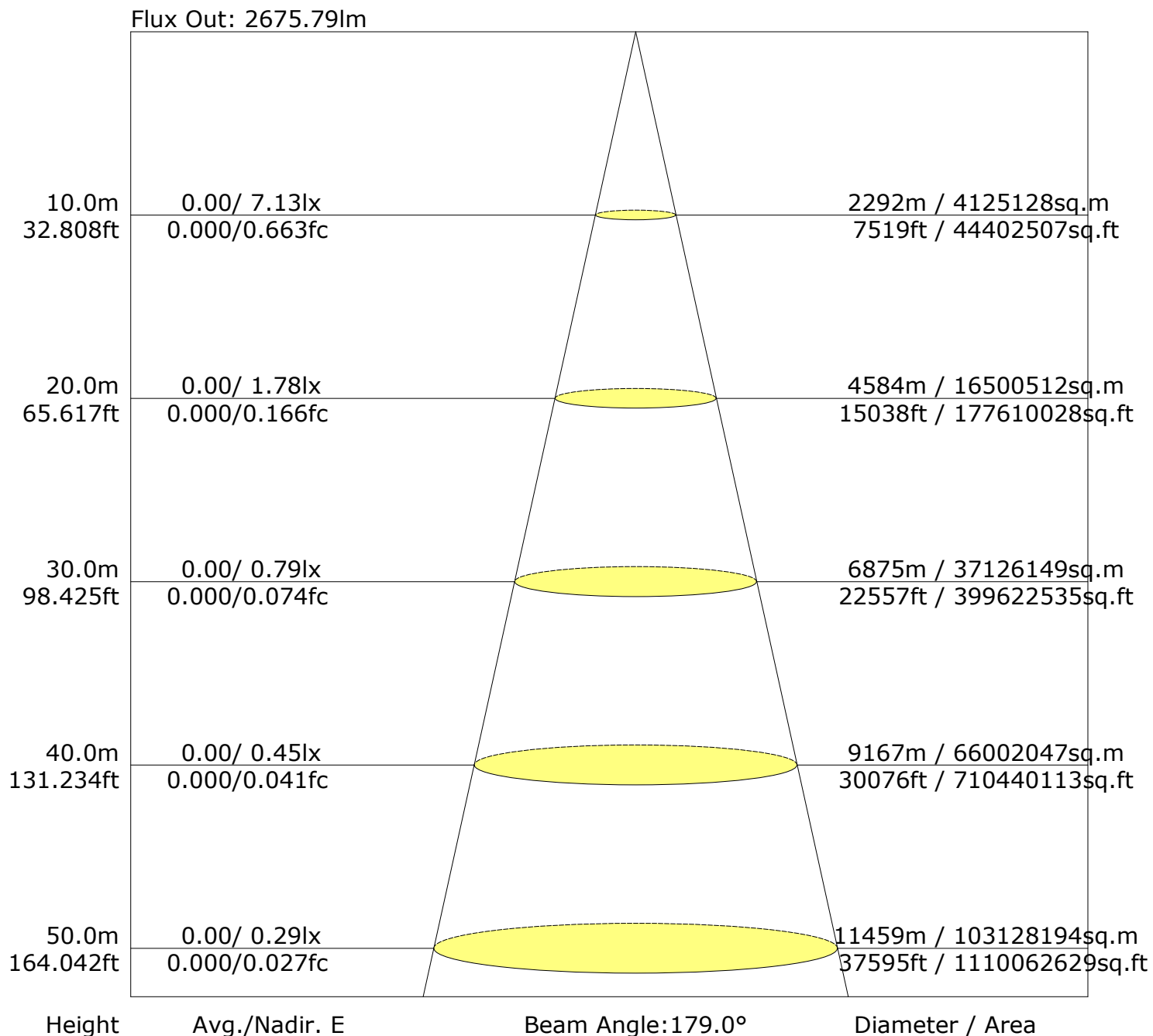


Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 713.5 lx

— ( 1%): 7.1 lx	— ( 2%): 14.3 lx
— ( 5%): 35.7 lx	— ( 10%): 71.3 lx
— ( 20%): 142.7 lx	— ( 50%): 356.7 lx
— (100%): 713.4 lx	

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## The Average Illuminance Effective Figure



## UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	19.7	20.8	20.4	21.6	22.5	19.9	21.0	20.6	21.8	22.7
3H	21.4	22.4	22.1	23.2	24.1	21.7	22.7	22.4	23.4	24.4
4H	22.0	22.9	22.7	23.7	24.6	22.3	23.2	23.0	24.0	25.0
6H	22.3	23.2	23.1	24.0	25.0	22.7	23.6	23.5	24.4	25.3
8H	22.4	23.3	23.2	24.1	25.0	22.8	23.7	23.6	24.5	25.4
12H	22.4	23.2	23.2	24.0	25.0	22.9	23.7	23.6	24.5	25.4
X=4H Y=2H	20.3	21.2	21.0	22.0	22.9	20.5	21.4	21.2	22.2	23.1
3H	22.2	23.0	23.0	23.8	24.7	22.4	23.2	23.2	24.0	25.0
4H	22.9	23.6	23.7	24.4	25.4	23.2	23.9	24.0	24.7	25.7
6H	23.3	24.0	24.2	24.8	25.8	23.7	24.4	24.5	25.2	26.2
8H	23.5	24.0	24.3	24.9	25.9	23.9	24.5	24.7	25.3	26.3
12H	23.5	24.0	24.3	24.9	25.9	23.9	24.5	24.8	25.3	26.3
X=8H Y=4H	23.1	23.7	23.9	24.5	25.6	23.4	24.0	24.3	24.9	25.9
6H	23.7	24.2	24.5	25.1	26.1	24.1	24.6	24.9	25.4	26.4
8H	23.9	24.3	24.7	25.2	26.2	24.3	24.7	25.1	25.6	26.6
12H	23.9	24.3	24.8	25.2	26.3	24.4	24.8	25.3	25.6	26.7
X=12H Y=4H	23.1	23.7	24.0	24.5	25.5	23.4	24.0	24.3	24.8	25.8
6H	23.7	24.2	24.6	25.0	26.1	24.1	24.5	25.0	25.4	26.4
8H	23.9	24.3	24.8	25.2	26.2	24.3	24.7	25.2	25.6	26.7

Calculate in accordance with CIE 190:2010 The table is revised with  $2676\text{lm}$  ( $8\log(F/F_0) = 3.4$ ).

C Plane (°):0.0-360.0: 15.0  
 Test Lab: MESTER LAB  
 Test Type: TYPE C  
 Temperature: 25.5°C  
 Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity: 45% R.H  
 Inspector:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

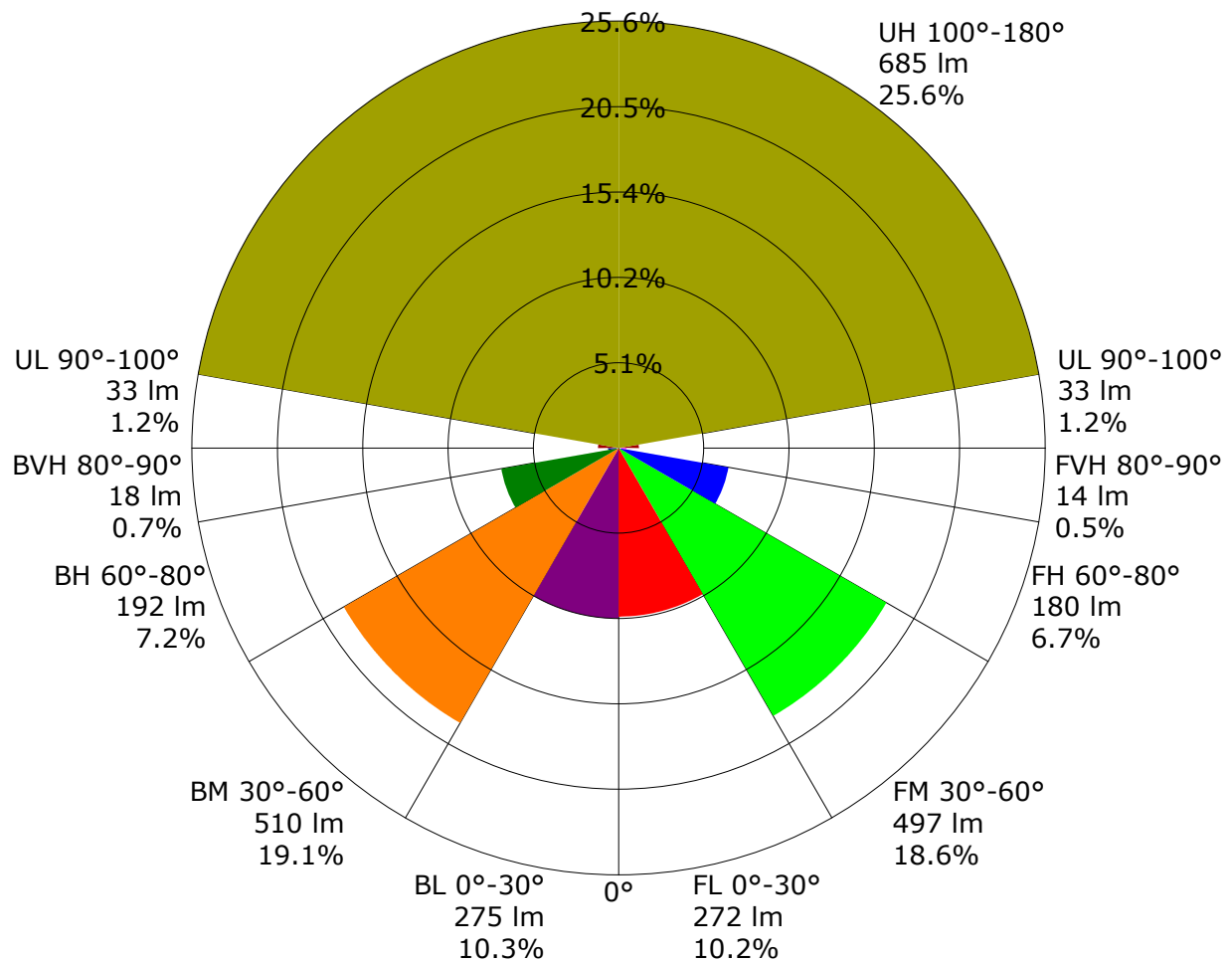
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	963	36.0
	FL ( 0°-30°)	272	10.2
	FM (30°-60°)	497	18.6
	FH (60°-80°)	180	6.7
	FVH (80°-90°)	14	0.5
	BACK LIGHT	995	37.2
	BL ( 0°-30°)	275	10.3
	BM (30°-60°)	510	19.1
	BH (60°-80°)	192	7.2
	BVH (80°-90°)	18	0.7
	UP LIGHT	718	26.8
	UL (90°-100°)	33	1.2
	UH (100°-180°)	685	25.6
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U4 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U4 G1

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## LCS Graph



**Back Light**

**Forward Light**

Scale= MAX LCS%

Trapped Light:NA,NA



## Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.51	0.61	0.68	0.73	0.80	0.84	0.88	0.92	0.95	
	0.30		0.44	0.53	0.61	0.66	0.74	0.79	0.83	0.88	0.91	
	0.20		0.38	0.48	0.55	0.61	0.69	0.75	0.79	0.85	0.88	
0.50	0.50	0.20	0.47	0.56	0.62	0.66	0.72	0.77	0.79	0.83	0.86	
	0.30		0.41	0.50	0.56	0.61	0.68	0.72	0.76	0.80	0.83	
	0.20		0.36	0.46	0.52	0.57	0.64	0.69	0.73	0.78	0.81	
0.30	0.50	0.20	0.43	0.51	0.56	0.60	0.66	0.69	0.72	0.75	0.77	
	0.30		0.38	0.46	0.52	0.56	0.62	0.66	0.69	0.73	0.75	
	0.20		0.34	0.42	0.48	0.53	0.59	0.63	0.67	0.71	0.74	
0.00	0.00	0.00	0.30	0.37	0.42	0.46	0.51	0.55	0.57	0.61	0.63	
Rating:20W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

## Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.93	0.77	0.66	0.57	0.46	0.38	0.32	0.25	0.21	
	0.30		0.78	0.66	0.57	0.51	0.41	0.35	0.30	0.24	0.20	
	0.20		0.67	0.58	0.51	0.46	0.38	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.84	0.70	0.59	0.52	0.41	0.36	0.29	0.22	0.18	
	0.30		0.71	0.60	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.62	0.53	0.47	0.42	0.35	0.29	0.25	0.20	0.17	
0.30	0.50	0.20	0.76	0.62	0.53	0.46	0.37	0.30	0.26	0.20	0.16	
	0.30		0.65	0.55	0.47	0.42	0.34	0.28	0.24	0.19	0.16	
	0.20		0.57	0.49	0.43	0.38	0.31	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.44	0.36	0.31	0.28	0.22	0.19	0.16	0.12	0.10	
Rating:20W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

## Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.42	0.43	0.44	0.45	0.45	0.46	0.46	0.47	0.47	
	0.30		0.36	0.37	0.38	0.39	0.41	0.42	0.43	0.44	0.45	
	0.20		0.31	0.33	0.34	0.35	0.37	0.38	0.40	0.41	0.42	
0.50	0.50	0.20	0.41	0.42	0.42	0.43	0.44	0.44	0.44	0.45	0.45	
	0.30		0.35	0.36	0.37	0.38	0.40	0.41	0.41	0.42	0.43	
	0.20		0.31	0.32	0.33	0.35	0.36	0.38	0.39	0.40	0.41	
0.30	0.50	0.20	0.39	0.40	0.41	0.41	0.42	0.42	0.43	0.43	0.43	
	0.30		0.34	0.36	0.37	0.37	0.38	0.39	0.40	0.41	0.41	
	0.20		0.31	0.32	0.33	0.34	0.35	0.37	0.38	0.39	0.40	
0.00	0.00	0.00	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	
Rating:20W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	713.6	0.7	0.7	0.03	0.03
1.0-2.0	713.3	2.0	2.7	0.08	0.10
2.0-3.0	712.7	3.4	6.1	0.13	0.23
3.0-4.0	711.8	4.8	10.9	0.18	0.41
4.0-5.0	710.6	6.1	17.0	0.23	0.64
5.0-6.0	709.0	7.5	24.5	0.28	0.91
6.0-7.0	707.2	8.8	33.2	0.33	1.24
7.0-8.0	705.1	10.1	43.3	0.38	1.62
8.0-9.0	702.6	11.4	54.7	0.43	2.05
9.0-10.0	699.9	12.7	67.4	0.47	2.52
10.0-11.0	696.9	13.9	81.3	0.52	3.04
11.0-12.0	693.6	15.2	96.5	0.57	3.61
12.0-13.0	690.0	16.4	112.9	0.61	4.22
13.0-14.0	686.2	17.6	130.4	0.66	4.87
14.0-15.0	682.1	18.7	149.2	0.70	5.57
15.0-16.0	677.7	19.9	169.0	0.74	6.32
16.0-17.0	673.1	21.0	190.0	0.78	7.10
17.0-18.0	668.2	22.0	212.0	0.82	7.92
18.0-19.0	663.1	23.1	235.1	0.86	8.79
19.0-20.0	657.7	24.1	259.2	0.90	9.69
20.0-21.0	652.0	25.0	284.2	0.94	10.62
21.0-22.0	646.1	26.0	310.2	0.97	11.59
22.0-23.0	640.0	26.9	337.0	1.00	12.60
23.0-24.0	633.7	27.7	364.7	1.04	13.63
24.0-25.0	627.1	28.5	393.3	1.07	14.70
25.0-26.0	620.4	29.3	422.6	1.09	15.79
26.0-27.0	613.4	30.0	452.6	1.12	16.91
27.0-28.0	606.2	30.7	483.3	1.15	18.06
28.0-29.0	598.8	31.3	514.6	1.17	19.23
29.0-30.0	591.3	31.9	546.5	1.19	20.43
30.0-31.0	583.6	32.5	579.0	1.21	21.64
31.0-32.0	575.7	33.0	612.0	1.23	22.87
32.0-33.0	567.7	33.4	645.5	1.25	24.12
33.0-34.0	559.5	33.9	679.3	1.27	25.39
34.0-35.0	551.1	34.2	713.5	1.28	26.67
35.0-36.0	542.6	34.6	748.1	1.29	27.96

C Plane (°):0.0-360.0: 15.0  
 Test Lab: MESTER LAB  
 Test Type: TYPE C  
 Temperature: 25.5℃  
 Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity: 45% R.H  
 Inspector:

## Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	533.9	34.8	782.9	1.30	29.26
37.0-38.0	525.1	35.1	818.0	1.31	30.57
38.0-39.0	516.1	35.2	853.2	1.32	31.89
39.0-40.0	507.1	35.4	888.6	1.32	33.21
40.0-41.0	497.8	35.5	924.0	1.32	34.53
41.0-42.0	488.4	35.5	959.5	1.33	35.86
42.0-43.0	479.0	35.5	995.0	1.33	37.19
43.0-44.0	469.4	35.4	1030.4	1.32	38.51
44.0-45.0	459.7	35.3	1065.8	1.32	39.83
45.0-46.0	449.9	35.2	1101.0	1.32	41.15
46.0-47.0	440.0	35.0	1136.0	1.31	42.45
47.0-48.0	429.9	34.8	1170.7	1.30	43.75
48.0-49.0	420.0	34.5	1205.2	1.29	45.04
49.0-50.0	409.8	34.2	1239.4	1.28	46.32
50.0-51.0	399.4	33.8	1273.2	1.26	47.58
51.0-52.0	389.0	33.4	1306.6	1.25	48.83
52.0-53.0	378.6	32.9	1339.5	1.23	50.06
53.0-54.0	367.9	32.4	1371.9	1.21	51.27
54.0-55.0	357.3	31.9	1403.8	1.19	52.46
55.0-56.0	346.8	31.3	1435.2	1.17	53.64
56.0-57.0	335.9	30.7	1465.9	1.15	54.78
57.0-58.0	325.0	30.1	1495.9	1.12	55.91
58.0-59.0	314.1	29.4	1525.3	1.10	57.00
59.0-60.0	303.1	28.6	1554.0	1.07	58.07
60.0-61.0	291.9	27.9	1581.8	1.04	59.12
61.0-62.0	280.8	27.1	1608.9	1.01	60.13
62.0-63.0	269.6	26.2	1635.1	0.98	61.11
63.0-64.0	258.3	25.3	1660.4	0.95	62.05
64.0-65.0	247.0	24.4	1684.9	0.91	62.97
65.0-66.0	235.6	23.5	1708.4	0.88	63.85
66.0-67.0	224.2	22.5	1731.0	0.84	64.69
67.0-68.0	212.7	21.5	1752.5	0.81	65.49
68.0-69.0	201.2	20.5	1773.0	0.77	66.26
69.0-70.0	189.7	19.5	1792.5	0.73	66.99
70.0-71.0	178.1	18.4	1810.9	0.69	67.68
71.0-72.0	166.4	17.3	1828.2	0.65	68.32

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	154.9	16.2	1844.4	0.61	68.93
73.0-74.0	143.5	15.1	1859.5	0.56	69.49
74.0-75.0	132.0	14.0	1873.5	0.52	70.02
75.0-76.0	120.6	12.8	1886.3	0.48	70.49
76.0-77.0	109.3	11.7	1897.9	0.44	70.93
77.0-78.0	98.2	10.5	1908.4	0.39	71.32
78.0-79.0	87.3	9.4	1917.8	0.35	71.67
79.0-80.0	76.6	8.3	1926.1	0.31	71.98
80.0-81.0	66.2	7.2	1933.2	0.27	72.25
81.0-82.0	56.2	6.1	1939.3	0.23	72.48
82.0-83.0	46.6	5.1	1944.4	0.19	72.67
83.0-84.0	37.5	4.1	1948.5	0.15	72.82
84.0-85.0	29.1	3.2	1951.7	0.12	72.94
85.0-86.0	21.4	2.3	1954.0	0.09	73.03
86.0-87.0	14.6	1.6	1955.6	0.06	73.09
87.0-88.0	8.9	1.0	1956.6	0.04	73.12
88.0-89.0	4.3	0.5	1957.1	0.02	73.14
89.0-90.0	3.9	0.4	1957.5	0.02	73.16
90.0-91.0	7.8	0.9	1958.3	0.03	73.19
91.0-92.0	12.8	1.4	1959.7	0.05	73.24
92.0-93.0	17.8	1.9	1961.7	0.07	73.31
93.0-94.0	22.6	2.5	1964.2	0.09	73.41
94.0-95.0	27.6	3.0	1967.2	0.11	73.52
95.0-96.0	32.7	3.6	1970.8	0.13	73.65
96.0-97.0	37.8	4.1	1974.9	0.15	73.81
97.0-98.0	43.2	4.7	1979.6	0.18	73.98
98.0-99.0	48.8	5.3	1984.9	0.20	74.18
99.0-100.0	54.4	5.9	1990.7	0.22	74.40
100.0-101.0	59.9	6.5	1997.2	0.24	74.64
101.0-102.0	65.4	7.0	2004.2	0.26	74.90
102.0-103.0	71.1	7.6	2011.8	0.28	75.19
103.0-104.0	76.8	8.2	2020.0	0.31	75.49
104.0-105.0	82.8	8.8	2028.8	0.33	75.82
105.0-106.0	88.9	9.4	2038.2	0.35	76.17
106.0-107.0	95.0	10.0	2048.2	0.37	76.55
107.0-108.0	100.9	10.6	2058.8	0.39	76.94

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	106.8	11.1	2069.9	0.41	77.36
109.0-110.0	112.4	11.6	2081.5	0.43	77.79
110.0-111.0	117.9	12.1	2093.6	0.45	78.24
111.0-112.0	123.1	12.6	2106.2	0.47	78.71
112.0-113.0	128.3	13.0	2119.2	0.49	79.20
113.0-114.0	133.2	13.4	2132.5	0.50	79.70
114.0-115.0	137.9	13.8	2146.3	0.51	80.21
115.0-116.0	142.2	14.1	2160.4	0.53	80.74
116.0-117.0	146.2	14.3	2174.7	0.54	81.27
117.0-118.0	149.7	14.6	2189.3	0.54	81.82
118.0-119.0	152.7	14.7	2204.0	0.55	82.37
119.0-120.0	155.2	14.8	2218.8	0.55	82.92
120.0-121.0	157.2	14.9	2233.7	0.56	83.48
121.0-122.0	158.7	14.8	2248.5	0.55	84.03
122.0-123.0	159.7	14.8	2263.3	0.55	84.58
123.0-124.0	160.1	14.6	2277.9	0.55	85.13
124.0-125.0	160.2	14.5	2292.4	0.54	85.67
125.0-126.0	160.0	14.3	2306.7	0.53	86.21
126.0-127.0	159.5	14.1	2320.7	0.53	86.73
127.0-128.0	158.8	13.8	2334.6	0.52	87.25
128.0-129.0	158.0	13.6	2348.1	0.51	87.75
129.0-130.0	157.1	13.3	2361.4	0.50	88.25
130.0-131.0	156.1	13.0	2374.4	0.49	88.74
131.0-132.0	155.1	12.7	2387.2	0.48	89.21
132.0-133.0	154.1	12.5	2399.6	0.47	89.68
133.0-134.0	153.0	12.2	2411.8	0.45	90.13
134.0-135.0	151.9	11.9	2423.7	0.44	90.58
135.0-136.0	150.8	11.6	2435.3	0.43	91.01
136.0-137.0	149.6	11.3	2446.5	0.42	91.43
137.0-138.0	148.5	11.0	2457.6	0.41	91.84
138.0-139.0	147.4	10.7	2468.3	0.40	92.24
139.0-140.0	146.4	10.4	2478.7	0.39	92.63
140.0-141.0	145.3	10.1	2488.8	0.38	93.01
141.0-142.0	144.2	9.8	2498.7	0.37	93.38
142.0-143.0	143.2	9.6	2508.2	0.36	93.74
143.0-144.0	142.2	9.3	2517.5	0.35	94.08

C Plane (°):0.0-360.0: 15.0  
 Test Lab: MESTER LAB  
 Test Type: TYPE C  
 Temperature: 25.5℃  
 Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity: 45% R.H  
 Inspector:

## Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	141.2	9.0	2526.5	0.34	94.42
145.0-146.0	140.3	8.7	2535.2	0.33	94.75
146.0-147.0	139.3	8.4	2543.6	0.32	95.06
147.0-148.0	138.3	8.2	2551.8	0.30	95.37
148.0-149.0	137.4	7.9	2559.7	0.29	95.66
149.0-150.0	136.5	7.6	2567.3	0.28	95.94
150.0-151.0	135.7	7.3	2574.6	0.27	96.22
151.0-152.0	134.8	7.1	2581.6	0.26	96.48
152.0-153.0	134.0	6.8	2588.4	0.25	96.74
153.0-154.0	133.1	6.5	2594.9	0.24	96.98
154.0-155.0	132.3	6.2	2601.2	0.23	97.21
155.0-156.0	131.5	6.0	2607.2	0.22	97.44
156.0-157.0	130.7	5.7	2612.9	0.21	97.65
157.0-158.0	130.0	5.5	2618.3	0.20	97.85
158.0-159.0	129.3	5.2	2623.5	0.19	98.05
159.0-160.0	128.5	4.9	2628.5	0.18	98.23
160.0-161.0	127.8	4.7	2633.2	0.17	98.41
161.0-162.0	127.2	4.4	2637.6	0.17	98.57
162.0-163.0	126.6	4.2	2641.8	0.16	98.73
163.0-164.0	126.0	3.9	2645.7	0.15	98.87
164.0-165.0	125.4	3.7	2649.4	0.14	99.01
165.0-166.0	124.9	3.4	2652.8	0.13	99.14
166.0-167.0	124.5	3.2	2656.0	0.12	99.26
167.0-168.0	124.1	2.9	2658.9	0.11	99.37
168.0-169.0	123.7	2.7	2661.6	0.10	99.47
169.0-170.0	123.4	2.5	2664.1	0.09	99.56
170.0-171.0	123.1	2.2	2666.3	0.08	99.65
171.0-172.0	122.8	2.0	2668.3	0.07	99.72
172.0-173.0	122.6	1.8	2670.1	0.07	99.79
173.0-174.0	122.4	1.5	2671.6	0.06	99.84
174.0-175.0	122.3	1.3	2672.9	0.05	99.89
175.0-176.0	122.1	1.1	2673.9	0.04	99.93
176.0-177.0	122.0	0.8	2674.7	0.03	99.96
177.0-178.0	122.0	0.6	2675.3	0.02	99.98
178.0-179.0	121.9	0.3	2675.7	0.01	100.00
179.0-180.0	121.9	0.1	2675.8	0.00	100.00

C Plane (°):0.0-360.0: 15.0  
 Test Lab: MESTER LAB  
 Test Type: TYPE C  
 Temperature: 25.5℃  
 Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity: 45% R.H  
 Inspector:



## Zonal Lumen (Continue 5)

cone flux(90°): 1065.77 lm

%lum = 39.8%

%lamp = 39.8%

cone flux(120°): 1553.95 lm

%lum = 58.1%

%lamp = 58.1%

## Candlepower Table

Unit: cd

G\C	C0.0	C15.0	C30.0	C45.0	C60.0	C75.0	C90.0	C105.0	C120.0	C135.0
G0.0	713.5	713.5	713.8	713.5	713.5	713.3	714.1	713.7	713.7	713.8
G1.0	713.1	713.0	713.4	713.0	713.0	713.0	713.9	713.5	713.9	713.7
G2.0	712.3	712.1	712.7	712.1	712.4	712.3	713.5	713.1	713.6	713.4
G3.0	711.2	710.9	711.6	711.0	711.5	711.4	712.7	712.4	712.7	712.7
G4.0	710.0	709.3	710.3	709.6	710.0	710.1	711.6	711.4	712.1	711.9
G5.0	708.4	707.6	708.5	707.9	708.6	708.5	710.2	710.0	711.0	710.8
G6.0	706.3	705.4	706.7	705.7	706.9	706.6	708.6	708.2	709.3	709.1
G7.0	704.2	703.1	704.6	703.3	704.7	704.3	706.8	706.4	707.5	707.2
G8.0	701.7	700.2	702.0	700.9	702.1	702.0	704.7	704.2	705.4	705.3
G9.0	699.0	697.3	699.1	698.0	699.8	699.3	701.9	701.4	703.1	702.7
G10.0	695.8	694.0	695.9	694.7	696.8	696.3	699.1	698.6	700.7	699.8
G11.0	692.2	690.3	692.7	691.2	693.3	693.3	696.1	695.4	697.5	697.1
G12.0	688.6	686.2	688.6	687.6	689.7	689.4	692.9	692.3	694.1	693.6
G13.0	684.6	682.2	684.6	683.5	685.9	685.7	689.2	688.2	690.7	689.8
G14.0	680.4	678.1	680.5	679.2	682.0	681.7	685.3	684.5	687.2	685.9
G15.0	675.8	673.3	676.2	674.5	677.6	677.4	681.2	680.6	683.2	682.0
G16.0	670.6	668.2	671.4	669.6	672.7	672.3	677.0	676.1	678.2	677.7
G17.0	665.5	663.3	666.5	664.9	667.9	667.9	672.1	671.1	673.9	672.9
G18.0	660.3	658.1	660.8	659.7	662.7	662.9	667.3	666.1	669.3	668.0
G19.0	655.2	652.7	655.3	653.5	657.6	657.7	661.9	661.0	664.4	662.7
G20.0	648.8	646.3	649.7	647.8	651.8	652.1	656.5	655.5	658.5	657.4
G21.0	643.0	640.4	643.4	641.8	646.2	646.0	651.2	650.1	653.1	651.8
G22.0	637.1	634.2	637.2	636.0	640.3	640.0	644.8	643.6	647.3	645.6
G23.0	630.7	627.5	630.8	629.7	634.3	633.7	638.8	637.5	641.5	639.6
G24.0	623.5	621.1	624.4	623.2	627.3	627.4	632.8	631.4	634.7	633.3
G25.0	616.7	613.6	617.2	615.5	620.9	620.6	625.5	624.9	628.4	626.7
G26.0	609.9	606.3	610.4	608.7	613.8	613.2	619.6	618.1	621.8	620.0
G27.0	602.7	599.2	603.2	601.8	607.0	606.1	612.2	611.3	615.1	612.8
G28.0	594.7	591.8	595.9	593.9	599.4	599.0	605.3	603.7	607.6	605.7
G29.0	587.1	583.4	588.3	586.5	591.7	591.7	597.9	596.3	600.2	598.2
G30.0	579.4	575.7	580.0	578.6	584.5	583.3	590.7	588.9	593.0	590.8
G31.0	571.7	567.7	572.1	570.8	576.7	575.7	582.4	581.3	585.4	583.3
G32.0	563.0	559.8	564.5	562.7	568.2	567.9	574.8	572.9	577.1	574.7
G33.0	555.2	551.5	556.4	553.9	560.4	559.6	566.8	564.9	569.1	566.7
G34.0	546.6	543.1	547.1	545.6	552.1	551.6	558.1	556.9	561.4	558.6
G35.0	538.3	533.9	538.8	537.1	543.8	542.4	549.8	548.5	553.2	550.3
G36.0	528.7	525.4	530.1	528.5	534.6	534.1	541.4	540.0	543.9	541.9

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C15.0	C30.0	C45.0	C60.0	C75.0	C90.0	C105.0	C120.0	C135.0
G37.0	520.3	516.6	521.9	519.9	526.2	525.6	533.2	530.6	535.6	532.4
G38.0	511.3	507.7	511.9	510.2	517.2	516.8	523.5	521.9	527.0	523.8
G39.0	502.5	497.8	502.9	501.3	508.5	507.2	514.8	513.3	518.3	515.1
G40.0	493.3	488.6	493.8	492.3	499.4	498.2	505.8	504.2	509.5	505.9
G41.0	483.1	479.4	484.9	483.1	489.6	488.9	496.6	494.5	499.6	495.9
G42.0	473.7	470.2	474.5	473.8	480.3	479.8	487.6	485.0	490.2	486.9
G43.0	464.4	460.6	465.3	464.4	471.0	470.3	478.3	475.7	481.0	477.7
G44.0	454.3	450.2	456.1	454.0	460.8	460.2	468.4	466.4	471.0	468.6
G45.0	444.5	440.6	446.4	444.3	451.3	450.4	458.7	456.6	461.5	458.5
G46.0	435.0	430.9	435.9	434.5	441.6	440.7	449.2	447.0	452.0	448.8
G47.0	424.9	421.1	426.0	424.6	431.8	430.8	438.6	436.0	442.3	437.9
G48.0	414.6	410.0	416.3	413.8	421.4	421.2	429.0	426.4	431.5	428.1
G49.0	404.6	401.1	406.3	403.7	411.5	411.0	419.1	416.4	421.7	418.2
G50.0	394.4	390.0	395.2	393.6	401.2	400.1	408.8	406.5	411.5	408.4
G51.0	384.3	379.8	385.2	383.6	391.4	390.0	398.0	395.3	401.6	397.3
G52.0	373.9	369.5	374.6	372.4	380.9	379.6	387.2	385.1	391.0	387.0
G53.0	362.5	358.2	364.5	362.1	369.8	368.8	377.1	374.9	380.0	376.7
G54.0	352.2	347.8	353.1	351.7	359.3	358.4	366.6	363.5	369.8	365.4
G55.0	341.7	337.2	342.8	341.5	349.1	347.8	355.5	353.1	359.4	354.9
G56.0	331.4	326.8	332.4	331.0	338.7	337.2	344.9	342.6	348.9	344.4
G57.0	319.8	315.1	320.8	319.3	326.8	325.8	334.2	331.9	337.2	333.9
G58.0	309.5	304.4	310.3	308.3	316.6	315.0	322.7	320.9	326.9	322.9
G59.0	298.7	293.5	299.5	297.5	305.7	304.1	312.0	310.2	315.8	312.2
G60.0	286.8	282.7	288.7	286.7	293.8	293.3	301.4	298.1	304.1	300.3
G61.0	275.9	271.7	277.0	274.7	283.0	282.3	290.3	287.2	293.2	289.3
G62.0	265.0	259.8	266.0	263.7	271.9	270.4	279.4	276.6	282.1	278.5
G63.0	254.0	248.7	255.0	253.0	261.1	259.3	267.2	265.5	271.3	267.2
G64.0	241.8	237.7	243.8	241.7	248.6	248.0	255.9	253.3	259.0	255.1
G65.0	230.8	226.7	232.8	230.6	237.5	236.7	244.7	241.9	247.8	243.8
G66.0	219.7	215.6	220.7	218.4	226.4	225.5	233.6	230.7	236.6	232.4
G67.0	208.8	203.3	209.7	207.2	215.5	213.1	221.4	219.4	225.8	221.2
G68.0	196.4	192.0	198.5	195.9	203.0	201.8	210.0	208.3	213.4	208.9
G69.0	185.1	180.7	187.3	184.6	191.9	190.4	198.9	195.7	202.2	197.5
G70.0	173.9	169.6	174.9	172.3	180.8	179.3	186.3	184.4	190.8	186.4
G71.0	161.6	157.3	163.8	161.2	168.5	167.9	175.0	173.1	178.5	175.0
G72.0	150.8	146.5	151.8	150.2	157.6	155.9	162.8	161.0	167.5	162.9
G73.0	139.2	134.9	140.3	138.7	145.9	144.0	151.2	150.4	155.7	152.3

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C15.0	C30.0	C45.0	C60.0	C75.0	C90.0	C105.0	C120.0	C135.0
G74.0	127.8	123.6	128.8	127.4	134.2	132.7	139.7	137.9	144.0	139.9
G75.0	117.1	112.8	118.0	116.5	123.5	122.0	128.7	126.8	133.1	128.9
G76.0	105.8	101.5	106.7	105.2	112.1	110.3	117.0	116.2	121.4	118.1
G77.0	94.0	90.7	95.8	94.1	100.2	99.4	105.9	104.0	109.3	106.4
G78.0	83.3	79.8	84.8	83.0	89.8	89.1	94.7	93.5	98.9	95.8
G79.0	73.0	70.2	73.8	72.5	78.7	78.3	84.0	82.9	87.4	84.8
G80.0	62.8	60.0	63.5	62.0	67.8	67.5	73.0	71.9	76.6	74.1
G81.0	52.8	50.1	53.9	52.5	57.4	57.0	62.3	61.8	66.4	64.0
G82.0	43.6	41.6	44.2	43.3	47.7	47.7	52.4	51.6	55.7	54.3
G83.0	34.5	32.3	35.4	34.4	38.0	37.9	42.5	42.1	45.5	44.8
G84.0	26.7	24.7	27.2	26.4	29.7	29.4	33.3	33.5	36.5	35.8
G85.0	18.9	17.7	19.9	19.3	21.7	21.7	25.0	25.0	27.7	27.3
G86.0	12.5	11.3	13.0	12.5	14.8	14.6	17.4	17.6	19.8	19.9
G87.0	7.0	6.1	7.4	7.2	8.8	8.5	11.0	11.1	13.1	13.2
G88.0	2.3	1.8	2.9	2.9	4.2	4.2	5.8	6.1	7.7	8.0
G89.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.3	3.1	3.8
G90.0	1.1	1.3	1.7	2.3	1.8	0.8	0.3	2.8	9.1	13.5
G91.0	4.0	5.0	6.6	10.4	8.0	4.3	0.6	6.8	16.1	21.3
G92.0	7.4	9.2	12.4	18.8	15.2	7.9	1.0	10.2	19.8	29.2
G93.0	11.2	13.7	18.3	26.8	22.2	9.6	1.5	11.8	28.3	36.1
G94.0	15.3	18.3	24.5	34.8	28.9	10.9	2.3	12.7	34.9	40.5
G95.0	19.8	23.6	31.3	42.9	34.8	12.3	3.4	14.2	39.7	50.0
G96.0	24.5	29.3	38.4	51.6	39.2	13.6	4.5	16.2	43.8	56.1
G97.0	30.0	35.9	46.3	58.9	42.8	15.0	5.7	17.9	48.3	63.2
G98.0	36.4	43.5	54.7	66.3	46.6	16.4	7.0	19.2	52.9	70.2
G99.0	43.5	51.2	63.3	72.6	50.5	17.9	8.3	20.8	57.5	78.3
G100.0	50.9	59.3	71.8	78.2	54.3	19.2	9.6	22.7	62.1	86.2
G101.0	59.3	68.6	80.0	84.4	58.2	20.8	11.0	24.9	67.5	94.3
G102.0	67.8	76.8	87.8	91.0	62.0	22.2	12.5	27.1	72.4	101.4
G103.0	76.1	85.3	96.1	97.0	65.8	23.7	13.9	28.8	77.6	107.6
G104.0	84.6	94.4	104.4	104.0	69.3	25.2	15.4	30.5	81.9	114.7
G105.0	94.1	104.4	112.9	110.4	72.7	26.7	16.9	32.2	86.1	120.9
G106.0	103.8	114.0	121.0	117.6	75.6	28.1	18.3	33.8	89.4	128.3
G107.0	114.0	124.3	128.9	124.6	78.4	29.6	19.8	35.8	92.7	135.5
G108.0	125.0	134.5	137.0	131.7	80.9	31.1	21.4	37.7	96.1	142.6
G109.0	135.1	144.7	144.5	138.1	83.0	32.6	22.9	39.4	99.2	150.2
G110.0	146.2	154.0	152.7	145.1	85.0	34.0	24.6	40.8	102.7	156.8

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C15.0	C30.0	C45.0	C60.0	C75.0	C90.0	C105.0	C120.0	C135.0
G111.0	156.2	163.9	160.4	151.1	86.5	35.7	26.1	42.2	105.9	163.4
G112.0	165.9	172.5	168.0	156.5	87.8	37.1	27.7	43.5	108.6	169.4
G113.0	175.1	181.0	175.7	161.6	88.8	38.6	29.4	44.8	110.2	175.1
G114.0	184.2	189.4	183.8	165.4	89.7	40.1	31.2	46.1	111.0	179.8
G115.0	194.0	198.3	191.1	168.7	90.3	41.7	32.9	47.5	111.6	185.1
G116.0	202.6	206.3	197.7	170.7	90.8	43.3	34.6	48.6	111.7	189.2
G117.0	210.8	213.7	203.6	172.1	91.1	44.8	36.3	50.0	111.6	192.9
G118.0	218.4	221.3	208.8	172.7	91.4	46.6	38.2	51.3	111.2	194.3
G119.0	225.6	226.7	213.4	172.5	91.7	48.2	39.9	52.6	110.8	194.7
G120.0	232.6	232.3	216.5	171.7	91.9	49.8	41.7	54.0	110.3	194.3
G121.0	237.8	236.4	218.6	170.4	92.2	51.4	43.4	55.5	109.7	193.1
G122.0	242.2	239.4	219.7	168.8	92.5	53.0	45.3	56.9	109.1	191.5
G123.0	245.5	241.4	219.9	167.1	92.8	54.8	47.1	58.4	108.7	189.6
G124.0	247.7	242.2	219.2	165.0	93.2	56.5	49.1	60.0	108.2	187.0
G125.0	248.5	242.2	218.0	163.0	93.6	58.2	50.9	61.5	107.9	184.6
G126.0	248.6	241.3	216.2	161.1	94.1	59.9	52.7	63.0	107.6	182.1
G127.0	247.8	239.8	214.1	159.0	94.6	61.8	54.6	64.7	107.5	179.3
G128.0	246.5	237.8	211.6	157.2	95.2	63.6	56.5	66.3	107.4	176.7
G129.0	244.5	235.6	208.7	155.4	95.8	65.3	58.3	67.9	107.3	174.2
G130.0	242.3	233.1	206.1	153.7	96.5	67.0	60.0	69.5	107.4	171.8
G131.0	239.9	230.0	203.3	152.2	97.1	68.9	62.0	71.1	107.5	169.4
G132.0	237.2	227.1	200.5	150.7	97.9	70.7	63.8	72.7	107.6	167.1
G133.0	234.0	224.2	197.5	149.2	98.6	72.4	65.5	74.4	107.9	164.8
G134.0	231.0	221.1	194.7	147.9	99.3	74.0	67.3	76.1	108.1	162.7
G135.0	228.0	217.7	192.0	146.7	100.1	75.8	69.1	77.6	108.4	160.8
G136.0	224.7	214.5	189.3	145.5	100.8	77.5	70.8	79.3	108.7	159.0
G137.0	221.2	211.4	186.4	144.3	101.7	79.1	72.8	80.9	109.1	157.1
G138.0	217.9	207.9	183.9	143.2	102.5	81.0	74.5	82.4	109.5	155.5
G139.0	214.6	204.7	181.3	142.3	103.3	82.6	76.2	84.0	109.8	153.9
G140.0	211.2	201.5	178.9	141.2	104.1	84.3	78.0	85.6	110.2	152.2
G141.0	207.9	198.4	176.5	140.2	105.0	85.9	79.8	87.1	110.6	150.6
G142.0	204.6	195.3	173.8	139.4	105.9	87.5	81.7	88.6	111.0	149.2
G143.0	200.9	191.9	171.5	138.5	106.7	89.2	83.4	90.1	111.5	147.8
G144.0	197.6	188.8	169.2	137.7	107.5	90.8	85.1	91.6	111.9	146.5
G145.0	194.3	185.8	166.9	136.8	108.3	92.3	86.8	93.2	112.3	145.1
G146.0	191.0	182.7	164.5	136.0	109.1	93.8	88.5	94.7	112.8	143.7
G147.0	187.4	179.5	162.3	135.3	109.9	95.4	90.2	96.0	113.2	142.5

C Plane (°):0.0-360.0: 15.0  
 Test Lab: MESTER LAB  
 Test Type: TYPE C  
 Temperature: 25.5℃  
 Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity: 45% R.H  
 Inspector:

## Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C15.0	C30.0	C45.0	C60.0	C75.0	C90.0	C105.0	C120.0	C135.0
G148.0	184.1	176.6	160.1	134.6	110.6	96.8	91.8	97.6	113.8	141.3
G149.0	181.0	173.6	158.1	133.9	111.4	98.2	93.4	99.0	114.2	140.1
G150.0	177.8	170.8	156.0	133.1	112.1	99.7	95.0	100.3	114.6	138.9
G151.0	174.7	167.6	153.9	132.4	112.8	101.3	96.6	101.6	115.0	137.8
G152.0	171.3	164.8	151.7	131.7	113.6	102.7	98.3	103.1	115.4	136.6
G153.0	168.2	162.0	149.8	131.0	114.2	104.1	99.8	104.4	115.8	135.4
G154.0	165.3	159.3	147.9	130.5	114.9	105.4	101.4	105.6	116.2	134.4
G155.0	162.3	156.6	146.0	129.9	115.5	106.8	102.9	106.8	116.6	133.3
G156.0	159.2	153.7	144.0	129.3	116.1	108.1	104.5	107.9	116.9	132.3
G157.0	156.3	151.3	142.2	128.8	116.7	109.3	105.8	109.1	117.2	131.1
G158.0	153.6	148.9	140.6	128.3	117.3	110.4	107.2	110.2	117.6	130.2
G159.0	150.9	146.3	139.0	127.9	117.8	111.6	108.4	111.2	117.8	129.3
G160.0	148.2	144.1	137.5	127.4	118.3	112.5	109.6	112.1	118.2	128.4
G161.0	145.7	142.0	136.1	127.0	118.8	113.5	110.8	113.1	118.4	127.6
G162.0	143.2	140.1	134.7	126.6	119.3	114.4	112.0	114.0	118.7	126.8
G163.0	141.0	138.0	133.4	126.2	119.7	115.3	113.0	114.8	119.0	126.2
G164.0	138.9	136.2	132.2	125.9	120.1	116.2	114.0	115.5	119.3	125.5
G165.0	136.9	134.6	131.1	125.6	120.5	116.9	115.0	116.3	119.5	124.9
G166.0	134.9	133.0	130.0	125.2	120.8	117.5	115.9	117.0	119.8	124.4
G167.0	133.3	131.6	129.1	124.9	121.1	118.2	116.7	117.7	120.1	124.0
G168.0	131.7	130.3	128.2	124.6	121.2	118.7	117.4	118.3	120.4	123.6
G169.0	130.2	129.0	127.3	124.3	121.4	119.3	118.2	118.8	120.7	123.3
G170.0	128.8	127.9	126.5	123.9	121.5	119.8	118.8	119.4	120.8	123.1
G171.0	127.7	126.9	125.8	123.7	121.7	120.2	119.3	119.8	120.9	122.8
G172.0	126.6	125.8	125.1	123.4	121.8	120.5	119.8	120.2	121.1	122.5
G173.0	125.7	125.0	124.5	123.1	121.8	120.9	120.3	120.6	121.2	122.3
G174.0	124.8	124.2	123.9	122.9	121.9	121.2	120.8	121.0	121.3	122.1
G175.0	123.9	123.6	123.3	122.6	121.9	121.5	121.1	121.2	121.5	122.0
G176.0	123.3	123.0	122.9	122.4	122.0	121.7	121.4	121.5	121.6	122.0
G177.0	122.9	122.6	122.6	122.3	122.0	121.8	121.6	121.7	121.7	121.9
G178.0	122.4	122.2	122.3	122.1	122.0	121.9	121.8	121.8	121.8	121.9
G179.0	122.1	122.0	122.0	122.0	122.0	121.9	121.9	121.9	121.9	121.9
G180.0	121.9	121.8	121.8	121.9	121.9	121.9	121.9	121.8	121.9	121.9

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 5)

Unit: cd

G\C	C150.0	C165.0	C180.0	C195.0	C210.0	C225.0	C240.0	C255.0	C270.0	C285.0
G0.0	714.0	714.2	713.5	713.5	713.8	713.5	713.5	713.3	714.1	713.7
G1.0	714.3	714.5	713.6	713.7	713.9	713.6	713.6	713.5	714.0	713.3
G2.0	713.9	714.1	713.5	713.4	713.7	713.6	713.5	713.2	713.5	713.0
G3.0	713.5	713.5	712.9	713.3	713.2	713.1	713.1	712.7	712.6	712.3
G4.0	712.8	712.6	712.2	712.7	712.3	712.4	712.0	712.0	711.7	711.2
G5.0	711.8	711.3	710.8	711.6	711.3	711.1	710.7	710.8	710.3	709.9
G6.0	710.3	709.9	709.4	710.2	709.9	710.1	709.2	709.4	708.7	708.0
G7.0	708.5	707.9	707.5	708.8	707.9	708.3	707.5	707.6	706.7	706.2
G8.0	706.6	705.9	705.6	706.7	706.0	706.5	705.4	705.4	704.6	704.1
G9.0	704.3	703.2	702.9	704.6	703.7	704.2	702.9	703.1	702.1	701.5
G10.0	701.6	700.6	700.4	702.0	700.9	701.7	700.4	700.7	699.5	699.0
G11.0	698.8	697.7	697.7	699.3	698.2	699.1	697.5	697.5	695.9	695.5
G12.0	695.7	694.5	694.5	695.9	694.6	695.7	694.4	694.5	692.7	692.3
G13.0	692.3	690.6	690.8	692.5	691.1	692.2	690.7	690.9	689.1	688.8
G14.0	688.8	686.8	686.7	689.2	687.5	688.8	686.8	687.3	685.2	684.9
G15.0	684.5	682.7	682.6	685.2	683.5	684.9	682.9	683.3	680.7	680.6
G16.0	680.1	678.5	678.5	681.0	679.4	680.9	678.5	679.5	676.4	676.4
G17.0	675.7	674.0	674.0	676.1	674.7	676.5	674.1	674.3	671.8	671.7
G18.0	671.0	668.6	668.6	671.2	669.7	671.3	669.0	669.6	667.0	666.9
G19.0	665.6	663.5	663.7	666.4	664.6	666.5	664.1	664.8	661.9	661.8
G20.0	660.3	658.1	658.2	661.2	659.4	661.4	658.8	659.7	656.7	655.8
G21.0	654.8	652.4	652.7	655.3	653.2	656.2	653.2	653.7	650.6	650.4
G22.0	649.0	646.0	647.0	649.5	647.8	649.9	646.8	648.1	644.7	644.4
G23.0	642.6	639.8	640.2	643.9	641.9	644.4	641.0	642.1	638.6	638.5
G24.0	636.3	633.7	633.9	637.7	635.5	638.1	634.8	636.1	632.6	631.6
G25.0	630.2	627.4	627.4	630.8	629.2	631.9	628.5	629.3	625.3	625.2
G26.0	623.2	620.5	620.7	623.9	622.4	625.4	621.7	622.6	618.6	618.6
G27.0	616.5	613.6	613.8	617.1	614.8	618.0	614.3	615.7	612.2	611.9
G28.0	608.7	605.8	606.2	610.3	607.6	611.2	607.5	609.0	605.2	604.1
G29.0	601.6	598.4	599.0	602.8	600.6	603.9	600.6	602.0	597.1	596.9
G30.0	594.2	591.0	591.3	595.7	592.4	596.5	593.0	594.5	589.8	589.5
G31.0	586.7	583.5	583.0	587.3	585.0	588.3	585.0	586.6	582.1	581.9
G32.0	578.4	574.8	575.4	579.5	577.1	580.4	577.0	578.9	574.5	574.2
G33.0	570.4	566.7	567.4	571.6	569.3	572.8	569.1	571.2	566.5	566.3
G34.0	562.4	558.4	559.1	563.8	560.7	565.0	561.0	563.1	557.7	557.6
G35.0	553.3	550.2	550.7	555.0	552.2	556.8	552.7	554.5	549.4	549.4
G36.0	545.1	541.8	542.4	546.6	544.0	547.7	544.6	546.0	541.2	540.9

C Plane (°):0.0-360.0: 15.0  
 Test Lab: MESTER LAB  
 Test Type: TYPE C  
 Temperature: 25.5℃  
 Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity: 45% R.H  
 Inspector:



## Candlepower Table (Continue 6)

Unit: cd

G\C	C150.0	C165.0	C180.0	C195.0	C210.0	C225.0	C240.0	C255.0	C270.0	C285.0
G37.0	536.5	533.1	533.1	538.0	535.4	539.2	535.4	537.4	532.6	531.7
G38.0	527.9	523.7	524.4	529.7	526.8	530.8	526.8	529.2	523.8	523.2
G39.0	519.1	514.5	515.4	520.7	517.3	522.0	518.1	519.5	514.2	514.5
G40.0	510.0	505.4	506.7	510.9	508.2	512.2	509.0	510.7	505.1	505.4
G41.0	500.2	495.5	497.0	501.9	499.2	503.3	499.3	501.5	496.5	496.3
G42.0	490.9	486.2	487.7	492.6	489.9	494.2	490.1	492.6	486.4	486.3
G43.0	481.5	476.7	478.5	482.5	479.8	485.2	480.9	482.4	477.1	477.0
G44.0	471.4	467.5	467.9	473.1	470.3	474.9	470.6	473.1	467.5	467.9
G45.0	461.8	457.9	458.4	463.7	460.7	465.3	460.8	463.8	457.7	458.5
G46.0	452.4	448.0	448.7	454.1	451.1	455.8	451.4	454.5	447.4	447.9
G47.0	442.7	437.2	438.8	443.5	440.5	445.3	441.6	443.8	437.6	438.1
G48.0	432.0	427.3	429.1	433.8	430.9	435.5	431.6	433.9	427.9	428.3
G49.0	422.2	417.3	419.2	424.1	420.7	425.7	420.8	424.0	418.0	418.6
G50.0	411.9	407.2	408.4	414.0	410.7	415.7	410.8	414.2	407.0	407.5
G51.0	400.9	396.2	398.2	403.1	399.9	405.8	400.9	403.1	397.0	397.5
G52.0	391.5	386.0	388.0	392.8	389.5	394.5	390.6	393.0	386.5	387.4
G53.0	380.4	375.8	377.0	382.6	379.6	384.4	379.5	382.6	376.7	377.0
G54.0	370.0	365.3	366.6	372.3	369.0	374.0	369.0	372.4	366.0	365.7
G55.0	359.6	353.6	356.2	361.9	357.7	363.6	358.6	361.7	354.8	355.2
G56.0	348.1	343.0	345.9	350.5	347.1	353.2	348.0	350.2	344.2	344.7
G57.0	337.4	332.5	334.2	340.0	336.4	341.8	336.4	340.0	333.7	334.4
G58.0	327.1	321.5	323.5	329.2	325.8	331.0	325.9	329.3	323.0	322.8
G59.0	316.3	310.9	312.8	317.7	315.0	320.3	315.1	317.6	311.0	312.3
G60.0	304.6	298.9	302.1	307.0	303.3	308.5	304.2	306.7	300.1	301.3
G61.0	293.4	287.9	290.1	296.2	292.4	297.6	292.5	296.0	289.3	290.5
G62.0	282.5	277.1	279.3	285.5	281.4	286.7	281.4	285.1	278.4	278.6
G63.0	271.7	266.0	268.5	273.5	270.5	275.8	270.5	272.9	266.3	267.6
G64.0	259.4	253.9	257.5	262.4	258.4	263.5	259.3	261.9	255.0	256.6
G65.0	248.5	242.7	246.8	251.4	247.6	252.5	247.2	250.8	244.0	245.3
G66.0	237.3	231.4	234.6	240.4	236.5	241.2	235.9	239.4	232.8	233.1
G67.0	225.1	220.2	223.6	228.2	225.4	230.2	224.8	227.0	220.4	222.0
G68.0	213.8	209.1	212.2	217.0	213.1	218.0	213.6	215.7	208.9	210.5
G69.0	202.7	197.5	199.9	205.9	201.8	206.8	201.0	204.4	197.3	199.2
G70.0	191.5	185.3	188.8	194.8	190.6	195.7	189.8	193.0	186.0	186.8
G71.0	178.7	173.8	177.6	182.6	179.7	183.4	178.5	180.7	173.5	175.4
G72.0	167.8	161.8	165.8	171.7	167.6	172.4	166.5	168.6	162.3	163.2
G73.0	156.2	151.2	155.1	160.1	155.9	160.7	155.5	157.6	150.4	151.3

C Plane (°):0.0-360.0: 15.0  
 Test Lab: MESTER LAB  
 Test Type: TYPE C  
 Temperature: 25.5℃  
 Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity: 45% R.H  
 Inspector:



## Candlepower Table (Continue 7)

Unit: cd

G\C	C150.0	C165.0	C180.0	C195.0	C210.0	C225.0	C240.0	C255.0	C270.0	C285.0
G74.0	144.5	139.8	143.7	148.6	144.4	149.3	143.9	145.9	138.7	139.8
G75.0	132.6	127.9	131.8	136.6	133.5	137.1	131.7	133.5	127.4	128.3
G76.0	121.0	117.2	120.3	125.0	122.0	125.5	120.2	121.7	115.7	116.6
G77.0	109.8	105.4	109.5	114.0	111.1	114.3	109.2	110.5	103.8	105.5
G78.0	98.6	95.0	99.2	102.7	99.8	102.8	98.6	98.9	93.2	94.2
G79.0	88.0	84.3	87.7	92.0	89.0	91.8	86.8	87.9	82.3	82.4
G80.0	77.3	73.4	77.8	81.2	78.3	80.9	75.9	76.8	71.5	72.3
G81.0	66.6	63.5	67.2	70.5	68.4	70.2	65.7	66.1	61.5	61.5
G82.0	56.8	53.8	57.6	60.2	57.9	60.3	55.9	55.4	51.1	51.3
G83.0	46.9	44.4	48.2	50.9	48.4	50.1	46.3	46.0	41.5	41.9
G84.0	38.3	35.9	39.5	41.4	39.6	40.4	37.0	36.5	32.7	33.0
G85.0	29.6	27.5	31.0	33.0	30.9	32.0	28.9	28.2	24.4	24.3
G86.0	21.7	20.2	23.3	25.0	23.2	23.9	21.0	20.0	17.0	16.9
G87.0	14.8	13.7	16.5	17.8	16.6	17.1	14.4	13.4	10.8	10.3
G88.0	9.0	8.1	10.5	11.3	10.9	10.9	8.9	7.6	5.7	5.3
G89.0	4.3	3.9	5.6	6.0	5.7	5.8	4.4	3.2	1.9	1.6
G90.0	9.4	6.9	7.9	8.9	12.2	16.5	11.4	3.6	0.6	1.8
G91.0	14.3	10.8	11.6	12.7	17.9	24.0	19.0	7.3	1.1	5.6
G92.0	19.7	15.1	15.7	17.0	24.3	31.9	26.0	9.8	1.8	9.6
G93.0	25.3	19.8	20.1	21.8	31.0	40.0	32.5	11.1	2.6	11.8
G94.0	31.8	25.1	24.9	27.1	38.1	48.1	38.0	12.5	3.4	13.2
G95.0	38.9	31.2	30.8	33.0	46.4	56.4	42.0	13.8	4.4	14.6
G96.0	44.4	37.9	37.1	39.9	54.8	64.2	45.9	15.3	5.5	16.1
G97.0	50.6	45.4	44.3	47.3	63.9	70.5	49.9	16.6	6.6	17.6
G98.0	60.9	53.2	52.4	55.4	73.0	76.2	54.0	18.1	7.8	19.1
G99.0	69.7	62.1	60.5	64.3	80.6	81.9	58.0	19.6	9.1	20.6
G100.0	78.3	69.7	68.6	72.0	88.9	88.0	62.1	21.1	10.4	22.1
G101.0	84.0	76.2	76.5	80.1	97.4	93.7	66.2	22.6	11.7	23.6
G102.0	92.2	82.8	84.9	88.8	105.8	100.1	70.0	24.1	13.1	25.2
G103.0	100.5	90.5	94.4	98.4	114.6	106.1	73.8	25.6	14.5	26.7
G104.0	109.5	100.0	104.3	108.1	122.8	112.3	77.3	27.1	15.9	28.1
G105.0	119.2	111.6	114.9	118.3	131.2	119.1	80.8	28.6	17.4	29.6
G106.0	128.8	121.8	126.1	128.1	139.6	126.2	84.0	30.0	18.9	31.1
G107.0	137.7	132.2	136.4	138.0	147.5	133.2	86.8	31.5	20.4	32.6
G108.0	147.5	142.1	146.9	148.0	155.4	139.8	89.3	33.0	22.0	33.9
G109.0	155.4	151.6	156.3	156.8	162.9	146.9	91.3	34.3	23.5	35.4
G110.0	164.0	158.2	166.8	166.6	171.4	153.5	93.2	35.8	25.1	36.9

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 8)

Unit: cd

G\C	C150.0	C165.0	C180.0	C195.0	C210.0	C225.0	C240.0	C255.0	C270.0	C285.0
G111.0	172.3	164.9	176.0	175.4	179.1	160.2	94.6	37.2	26.7	38.2
G112.0	180.4	174.1	185.1	184.3	186.9	165.9	95.7	38.5	28.3	39.7
G113.0	188.6	183.6	195.2	193.8	195.4	170.9	96.5	39.9	29.9	41.2
G114.0	197.0	192.4	204.2	202.4	202.7	175.1	97.0	41.3	31.7	42.6
G115.0	204.6	202.6	213.1	210.8	209.6	178.8	97.3	42.7	33.4	44.1
G116.0	211.7	212.2	221.8	218.9	215.8	181.1	97.4	44.0	35.1	45.5
G117.0	218.2	220.9	230.7	227.3	221.1	182.7	97.3	45.5	36.8	47.0
G118.0	224.0	229.8	238.2	234.3	226.0	183.4	97.2	46.9	38.7	48.4
G119.0	228.6	237.1	244.8	240.4	229.3	183.3	97.0	48.3	40.4	50.1
G120.0	232.7	244.4	250.5	245.7	231.6	182.6	96.8	49.7	42.2	51.6
G121.0	236.1	249.8	255.5	250.2	232.9	181.2	96.7	51.2	43.9	53.1
G122.0	238.7	253.3	259.0	253.2	233.3	179.5	96.6	52.9	45.8	54.6
G123.0	240.1	256.0	261.4	255.1	232.8	177.5	96.5	54.4	47.6	56.2
G124.0	239.9	257.0	262.8	256.1	231.6	175.0	96.6	55.9	49.4	58.0
G125.0	238.9	257.3	263.4	256.2	229.6	172.6	96.7	57.5	51.3	59.6
G126.0	237.2	256.8	262.9	255.4	227.4	170.2	96.9	59.3	53.1	61.3
G127.0	234.9	255.0	261.8	254.0	225.0	167.8	97.2	60.9	54.9	62.9
G128.0	232.4	253.2	260.2	251.9	222.3	165.4	97.5	62.5	56.7	64.7
G129.0	229.6	251.6	257.8	249.9	219.4	163.1	97.9	64.1	58.5	66.4
G130.0	226.8	249.7	255.3	247.1	216.1	161.0	98.4	65.9	60.4	68.0
G131.0	223.3	247.8	252.7	244.3	212.9	158.7	98.8	67.6	62.2	69.7
G132.0	220.2	245.3	249.8	241.2	209.7	156.8	99.3	69.2	63.9	71.5
G133.0	216.8	242.3	246.7	238.0	206.4	155.1	99.9	70.8	65.7	73.1
G134.0	213.4	239.0	243.0	234.2	202.9	153.4	100.4	72.6	67.6	74.8
G135.0	210.0	235.5	239.6	230.8	199.7	151.8	101.0	74.3	69.3	76.5
G136.0	206.3	231.5	235.9	227.2	196.4	150.1	101.6	75.9	71.0	78.1
G137.0	202.8	227.7	231.7	223.4	192.9	148.7	102.3	77.5	72.8	79.9
G138.0	199.5	224.0	227.9	219.3	189.8	147.3	102.9	79.2	74.6	81.5
G139.0	196.1	219.6	223.9	215.5	186.8	146.0	103.6	80.9	76.3	83.1
G140.0	192.8	215.6	219.9	211.8	183.8	144.7	104.2	82.5	78.0	84.8
G141.0	189.3	211.8	215.5	207.6	180.6	143.5	105.0	84.0	79.7	86.4
G142.0	186.3	207.9	211.4	203.8	177.6	142.3	105.7	85.8	81.6	88.0
G143.0	183.2	203.7	207.4	200.1	174.9	141.2	106.5	87.3	83.3	89.5
G144.0	180.2	199.8	203.4	196.4	172.3	140.0	107.2	88.9	85.0	91.2
G145.0	177.3	196.1	199.5	192.8	169.6	139.0	107.9	90.4	86.7	92.7
G146.0	174.2	192.5	195.3	189.1	166.7	137.9	108.7	91.9	88.5	94.2
G147.0	171.4	188.8	191.4	185.2	164.2	136.8	109.3	93.6	90.3	95.8

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 9)

Unit: cd

G\C	C150.0	C165.0	C180.0	C195.0	C210.0	C225.0	C240.0	C255.0	C270.0	C285.0
G148.0	168.7	185.0	187.7	181.7	161.7	135.8	110.0	95.1	92.1	97.2
G149.0	166.2	181.6	184.1	178.4	159.3	134.8	110.6	96.6	93.7	98.7
G150.0	163.3	178.2	180.2	174.8	156.7	133.7	111.3	98.1	95.5	100.2
G151.0	160.8	174.9	176.8	171.9	154.4	132.8	111.8	99.5	97.1	101.5
G152.0	158.3	171.4	173.3	168.4	152.2	131.9	112.4	101.0	98.7	102.9
G153.0	155.8	168.1	169.9	165.4	150.0	131.0	113.0	102.4	100.2	104.3
G154.0	153.5	164.9	166.3	162.2	147.9	130.2	113.6	103.7	101.7	105.5
G155.0	150.9	161.8	163.1	159.2	145.8	129.4	114.2	105.1	103.1	106.7
G156.0	148.6	158.5	159.8	156.4	143.7	128.7	114.8	106.4	104.7	107.8
G157.0	146.4	155.6	156.8	153.5	141.8	127.9	115.3	107.6	105.9	108.9
G158.0	144.2	152.6	153.7	150.9	139.9	127.3	115.8	108.8	107.2	109.9
G159.0	142.1	149.8	150.5	148.2	138.2	126.7	116.3	109.9	108.4	110.9
G160.0	139.9	146.9	147.7	145.5	136.3	126.1	116.8	111.0	109.7	111.9
G161.0	137.9	144.3	144.9	142.9	134.7	125.5	117.2	112.0	110.7	112.8
G162.0	136.2	141.9	142.2	140.6	133.2	125.0	117.6	112.9	111.8	113.6
G163.0	134.5	139.3	139.5	138.4	131.7	124.5	118.0	113.8	112.8	114.4
G164.0	132.9	137.1	137.2	136.1	130.2	124.0	118.5	114.7	113.9	115.3
G165.0	131.2	135.0	135.0	134.0	128.9	123.6	118.8	115.5	114.8	116.0
G166.0	129.8	133.1	133.0	132.1	127.7	123.2	119.1	116.2	115.6	116.7
G167.0	128.5	131.2	131.1	130.4	126.7	123.0	119.4	116.9	116.4	117.4
G168.0	127.5	129.7	129.4	128.9	125.7	122.7	119.7	117.5	117.2	118.0
G169.0	126.4	128.2	127.9	127.4	124.9	122.4	120.0	118.2	117.9	118.6
G170.0	125.6	126.9	126.7	126.2	124.2	122.2	120.3	118.7	118.6	119.2
G171.0	124.8	125.9	125.5	125.3	123.6	122.1	120.5	119.3	119.2	119.7
G172.0	124.2	124.9	124.6	124.5	123.1	122.0	120.7	119.7	119.7	120.2
G173.0	123.6	124.1	123.8	123.7	122.7	121.8	120.9	120.2	120.2	120.5
G174.0	123.1	123.5	123.2	123.1	122.4	121.7	121.1	120.5	120.6	120.8
G175.0	122.7	123.0	122.6	122.6	122.1	121.7	121.3	120.9	121.0	121.1
G176.0	122.3	122.5	122.2	122.3	121.9	121.7	121.4	121.2	121.3	121.4
G177.0	122.1	122.2	121.9	122.0	121.8	121.7	121.6	121.5	121.5	121.5
G178.0	121.9	122.0	121.7	121.8	121.8	121.7	121.7	121.7	121.7	121.7
G179.0	121.8	122.0	121.8	121.8	121.8	121.8	121.8	121.8	121.9	121.8
G180.0	121.9	121.9	121.9	121.8	121.8	121.9	121.9	121.9	121.9	121.8

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 10)

Unit: cd

G\C	C300.0	C315.0	C330.0	C345.0	C360.0					
G0.0	713.7	713.8	714.0	714.2	713.5					
G1.0	713.2	713.5	713.6	713.8	713.1					
G2.0	712.8	712.9	712.6	713.1	712.3					
G3.0	711.8	712.0	711.5	712.1	711.2					
G4.0	710.4	710.8	710.2	710.9	710.0					
G5.0	709.1	709.2	708.3	709.4	708.4					
G6.0	707.4	707.3	706.2	707.6	706.3					
G7.0	705.0	705.2	703.9	705.3	704.2					
G8.0	702.4	702.9	701.3	702.5	701.7					
G9.0	699.6	700.2	698.3	699.8	699.0					
G10.0	696.8	697.2	695.2	696.8	695.8					
G11.0	693.6	693.8	691.8	693.1	692.2					
G12.0	690.1	690.3	688.2	689.4	688.6					
G13.0	686.4	686.4	684.3	685.5	684.6					
G14.0	681.6	682.3	680.0	681.1	680.4					
G15.0	677.6	677.8	675.1	676.8	675.8					
G16.0	673.0	673.2	670.3	672.0	670.6					
G17.0	668.1	668.4	665.4	667.0	665.5					
G18.0	662.4	663.4	659.8	661.9	660.3					
G19.0	657.5	658.3	654.4	656.4	655.2					
G20.0	651.7	652.3	648.5	650.2	648.8					
G21.0	645.8	646.5	642.8	644.4	643.0					
G22.0	639.3	640.8	636.6	638.2	637.1					
G23.0	633.2	634.7	630.1	632.0	630.7					
G24.0	626.8	627.4	622.9	625.0	623.5					
G25.0	620.1	620.9	616.6	618.1	616.7					
G26.0	613.2	614.1	609.4	611.1	609.9					
G27.0	605.8	607.1	602.2	603.9	602.7					
G28.0	598.4	600.0	594.4	595.9	594.7					
G29.0	591.3	591.6	586.9	588.7	587.1					
G30.0	583.6	584.2	579.4	581.1	579.4					
G31.0	575.4	576.5	570.9	573.3	571.7					
G32.0	567.7	568.8	562.8	565.3	563.0					
G33.0	559.7	560.7	554.6	556.6	555.2					
G34.0	551.6	551.8	546.3	548.4	546.6					
G35.0	543.0	543.6	537.9	539.9	538.3					
G36.0	534.5	535.0	529.4	531.7	528.7					

C Plane (°):0.0-360.0: 15.0  
 Test Lab: MESTER LAB  
 Test Type: TYPE C  
 Temperature: 25.5℃  
 Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity: 45% R.H  
 Inspector:

## Candlepower Table (Continue 11)

Unit: cd

G\C	C300.0	C315.0	C330.0	C345.0	C360.0					
G37.0	525.2	525.7	519.8	522.1	520.3					
G38.0	516.6	516.9	511.0	513.3	511.3					
G39.0	507.9	508.0	502.3	504.3	502.5					
G40.0	498.8	499.1	493.3	495.3	493.3					
G41.0	489.0	489.0	483.3	485.5	483.1					
G42.0	480.0	479.9	474.0	476.3	473.7					
G43.0	470.5	470.7	464.7	466.9	464.4					
G44.0	460.1	461.3	455.4	457.2	454.3					
G45.0	450.7	451.7	444.7	447.6	444.5					
G46.0	441.0	441.3	434.8	437.2	435.0					
G47.0	431.2	431.6	424.9	427.5	424.9					
G48.0	421.6	421.9	415.4	417.8	414.6					
G49.0	410.6	412.0	405.1	406.9	404.6					
G50.0	400.4	401.0	394.3	397.0	394.4					
G51.0	390.4	390.8	384.3	386.9	384.3					
G52.0	379.8	380.8	373.8	376.8	373.9					
G53.0	369.0	370.5	362.8	366.2	362.5					
G54.0	358.3	359.1	352.2	355.1	352.2					
G55.0	348.1	348.7	341.9	344.9	341.7					
G56.0	337.5	338.4	331.5	334.1	331.4					
G57.0	325.7	328.1	319.6	323.9	319.8					
G58.0	314.9	316.3	309.1	312.4	309.5					
G59.0	304.1	305.6	298.4	301.8	298.7					
G60.0	293.6	294.8	287.7	290.9	286.8					
G61.0	281.6	284.0	276.8	279.2	275.9					
G62.0	270.7	272.1	264.7	268.3	265.0					
G63.0	259.7	261.2	253.8	257.4	254.0					
G64.0	248.4	250.2	242.8	246.5	241.8					
G65.0	236.6	239.1	232.0	235.4	230.8					
G66.0	225.4	226.9	219.8	223.4	219.7					
G67.0	214.3	215.7	208.7	212.1	208.8					
G68.0	203.0	204.6	197.6	200.9	196.4					
G69.0	190.5	193.5	186.5	188.8	185.1					
G70.0	179.3	181.1	174.2	177.8	173.9					
G71.0	167.9	170.1	163.2	166.7	161.6					
G72.0	156.1	158.2	151.4	154.7	150.8					
G73.0	145.1	146.6	140.7	143.3	139.2					

C Plane (°):0.0-360.0: 15.0  
 Test Lab: MESTER LAB  
 Test Type: TYPE C  
 Temperature: 25.5℃  
 Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity: 45% R.H  
 Inspector:

## Candlepower Table (Continue 12)

Unit: cd

G\C	C300.0	C315.0	C330.0	C345.0	C360.0					
G74.0	133.5	135.2	129.4	132.2	127.8					
G75.0	121.4	124.1	117.7	121.3	117.1					
G76.0	109.8	112.5	106.5	110.0	105.8					
G77.0	99.0	101.3	95.9	99.3	94.0					
G78.0	87.7	89.9	85.6	88.2	83.3					
G79.0	77.1	78.5	74.5	77.1	73.0					
G80.0	66.3	68.7	64.7	66.8	62.8					
G81.0	56.5	58.3	54.5	57.5	52.8					
G82.0	47.0	48.3	45.3	47.5	43.6					
G83.0	37.8	39.5	36.5	38.9	34.5					
G84.0	29.0	30.6	28.4	30.1	26.7					
G85.0	21.5	22.7	20.7	22.3	18.9					
G86.0	14.7	15.7	14.2	15.4	12.5					
G87.0	9.0	9.8	8.6	9.6	7.0					
G88.0	4.6	4.9	4.2	4.4	2.3					
G89.0	1.2	1.3	0.0	0.0	0.0					
G90.0	4.3	5.0	3.7	2.8	1.1					
G91.0	11.9	12.2	9.1	6.3	4.0					
G92.0	19.9	20.0	14.7	10.3	7.4					
G93.0	27.3	27.6	20.6	14.6	11.2					
G94.0	34.0	35.3	26.7	19.0	15.3					
G95.0	40.0	43.6	33.4	23.9	19.8					
G96.0	44.7	51.4	41.1	29.5	24.5					
G97.0	48.8	59.5	49.3	35.7	30.0					
G98.0	53.3	66.9	57.5	42.8	36.4					
G99.0	57.6	73.1	66.5	50.9	43.5					
G100.0	62.1	79.4	75.2	58.8	50.9					
G101.0	66.5	85.2	83.1	67.5	59.3					
G102.0	70.8	91.9	91.2	75.5	67.8					
G103.0	75.1	97.9	99.8	84.1	76.1					
G104.0	79.0	104.2	108.3	92.8	84.6					
G105.0	82.8	110.9	117.1	102.6	94.1					
G106.0	86.4	118.1	126.0	112.2	103.8					
G107.0	89.5	125.0	134.1	122.3	114.0					
G108.0	92.2	131.6	141.5	132.6	125.0					
G109.0	94.4	138.9	149.8	142.9	135.1					
G110.0	96.4	145.6	157.4	152.3	146.2					

C Plane (°):0.0-360.0: 15.0  
 Test Lab: MESTER LAB  
 Test Type: TYPE C  
 Temperature: 25.5℃  
 Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity: 45% R.H  
 Inspector:

## Candlepower Table (Continue 13)

Unit: cd

G\C	C300.0	C315.0	C330.0	C345.0	C360.0					
G111.0	97.9	152.0	165.7	161.3	156.2					
G112.0	99.1	158.6	173.4	170.2	165.9					
G113.0	100.0	164.0	180.9	179.6	175.1					
G114.0	100.5	168.6	188.9	188.1	184.2					
G115.0	100.8	172.8	195.9	196.3	194.0					
G116.0	100.9	175.5	202.3	204.9	202.6					
G117.0	100.9	177.5	208.0	212.3	210.8					
G118.0	100.8	178.7	213.3	219.3	218.4					
G119.0	100.7	179.1	216.9	225.5	225.6					
G120.0	100.6	178.7	219.7	230.8	232.6					
G121.0	100.4	177.8	221.4	235.4	237.8					
G122.0	100.3	176.3	222.2	238.6	242.2					
G123.0	100.3	174.6	222.0	240.7	245.5					
G124.0	100.3	172.5	221.1	241.7	247.7					
G125.0	100.4	170.4	219.5	241.9	248.5					
G126.0	100.6	168.4	217.5	241.2	248.6					
G127.0	100.8	166.3	215.2	239.8	247.8					
G128.0	101.2	164.1	212.7	237.9	246.5					
G129.0	101.5	162.1	210.1	235.7	244.5					
G130.0	101.9	160.3	207.3	233.3	242.3					
G131.0	102.4	158.4	204.2	230.5	239.9					
G132.0	102.9	156.6	201.4	227.8	237.2					
G133.0	103.3	155.0	198.6	224.6	234.0					
G134.0	103.9	153.4	195.5	221.5	231.0					
G135.0	104.4	151.9	192.8	218.3	228.0					
G136.0	105.0	150.5	190.1	215.2	224.7					
G137.0	105.6	149.1	187.4	212.0	221.2					
G138.0	106.3	147.8	184.6	208.6	217.9					
G139.0	106.9	146.6	182.0	205.4	214.6					
G140.0	107.5	145.3	179.4	202.3	211.2					
G141.0	108.3	144.2	176.9	198.8	207.9					
G142.0	108.9	143.1	174.5	195.7	204.6					
G143.0	109.5	142.1	171.8	192.6	200.9					
G144.0	110.2	140.9	169.5	189.4	197.6					
G145.0	110.8	140.0	167.2	186.1	194.3					
G146.0	111.5	139.0	164.9	183.4	191.0					
G147.0	112.2	138.0	162.3	180.0	187.4					

C Plane (°):0.0-360.0: 15.0  
Test Lab: MESTER LAB  
Test Type: TYPE C  
Temperature: 25.5℃  
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity: 45% R.H  
Inspector:



## Candlepower Table (Continue 14)

Unit: cd

G\C	C300.0	C315.0	C330.0	C345.0	C360.0					
G148.0	112.8	137.1	160.1	177.0	184.1					
G149.0	113.4	136.2	157.9	174.0	181.0					
G150.0	114.0	135.2	155.7	170.9	177.8					
G151.0	114.5	134.3	153.4	167.9	174.7					
G152.0	115.1	133.5	151.4	165.1	171.3					
G153.0	115.6	132.7	149.3	162.5	168.2					
G154.0	116.2	131.9	147.4	159.5	165.3					
G155.0	116.7	131.2	145.5	156.9	162.3					
G156.0	117.2	130.5	143.5	154.2	159.2					
G157.0	117.6	129.8	141.7	151.7	156.3					
G158.0	118.0	129.2	140.0	149.3	153.6					
G159.0	118.4	128.6	138.5	146.8	150.9					
G160.0	118.8	128.0	136.8	144.4	148.2					
G161.0	119.1	127.4	135.3	142.2	145.7					
G162.0	119.4	127.0	133.9	140.2	143.2					
G163.0	119.7	126.4	132.6	138.2	141.0					
G164.0	119.9	125.9	131.3	136.3	138.9					
G165.0	120.2	125.5	130.2	134.5	136.9					
G166.0	120.4	125.1	129.1	132.9	134.9					
G167.0	120.7	124.7	128.1	131.5	133.3					
G168.0	120.9	124.3	127.3	130.1	131.7					
G169.0	121.1	124.0	126.5	128.8	130.2					
G170.0	121.3	123.7	125.7	127.7	128.8					
G171.0	121.4	123.4	125.0	126.7	127.7					
G172.0	121.5	123.1	124.4	125.8	126.6					
G173.0	121.6	122.9	123.8	125.0	125.7					
G174.0	121.7	122.6	123.3	124.2	124.8					
G175.0	121.8	122.5	122.9	123.6	123.9					
G176.0	121.8	122.3	122.6	123.1	123.3					
G177.0	121.9	122.2	122.3	122.7	122.9					
G178.0	121.9	122.0	122.1	122.3	122.4					
G179.0	121.8	122.0	121.9	122.1	122.1					
G180.0	121.9	121.9	121.9	121.9	121.9					

C Plane (°):0.0-360.0: 15.0  
 Test Lab: MESTER LAB  
 Test Type: TYPE C  
 Temperature: 25.5℃  
 Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity: 45% R.H  
 Inspector:



## LED Average Luminance Report

Avg.L	cd/m <sup>2</sup>
L 0-180(65) av	14946.51
L 0-180(75) av	12720.32
L 0-180(85) av	7572.35
L 90-270(65) av	15296.55
L 90-270(75) av	13090.44
L 90-270(85) av	7505.72
L 45(65) av	15116.43
L 45(75) av	12944.22
L 45(85) av	7685.11

Standard: GB/T 29293-2012