

Report No.: TH-804A

Test Time: 2019/12/28 09:233

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 20046

Current: 0.242A

Power Factor: 0.935

Voltage: 120V

Power: 27.1W

## Photometric Results

CIE Class: General Diffuse

Measurement Flux: 1056.8 lm

Downward Ratio: 51%

Horizontal Diffuse Angle(50%): H90

Vertical Diffuse Angle(50%): V68.8

Luminaire Efficacy Rating (LER): 39.05

Max. Intensity: 282.48 cd

S/MH(C0/C180): 1.13

Total Rated Lamp Lumens: 1056.8 lm

Efficiency: 100%

Upward Ratio: 49%

Central Intensity: 282.13 cd

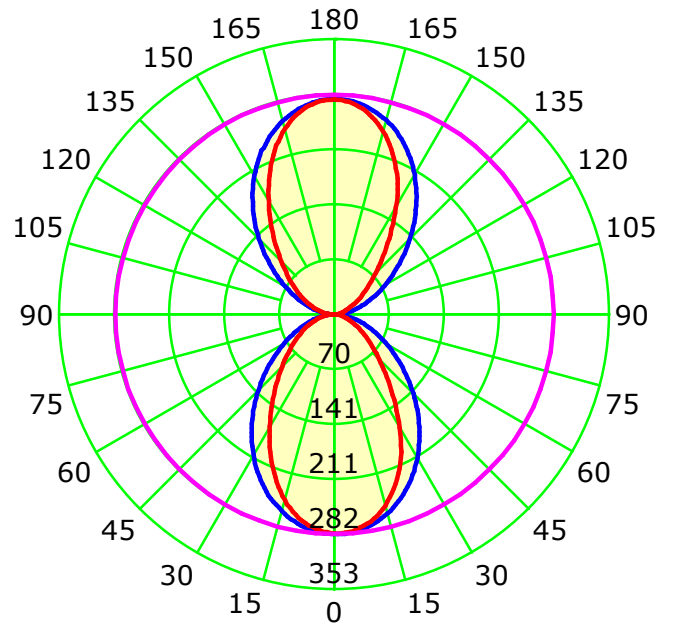
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.97

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 360.0°

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 90.0

Test Lab: Inventfine instruments

Test Type: TYPE C

Temperature: 26

Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0

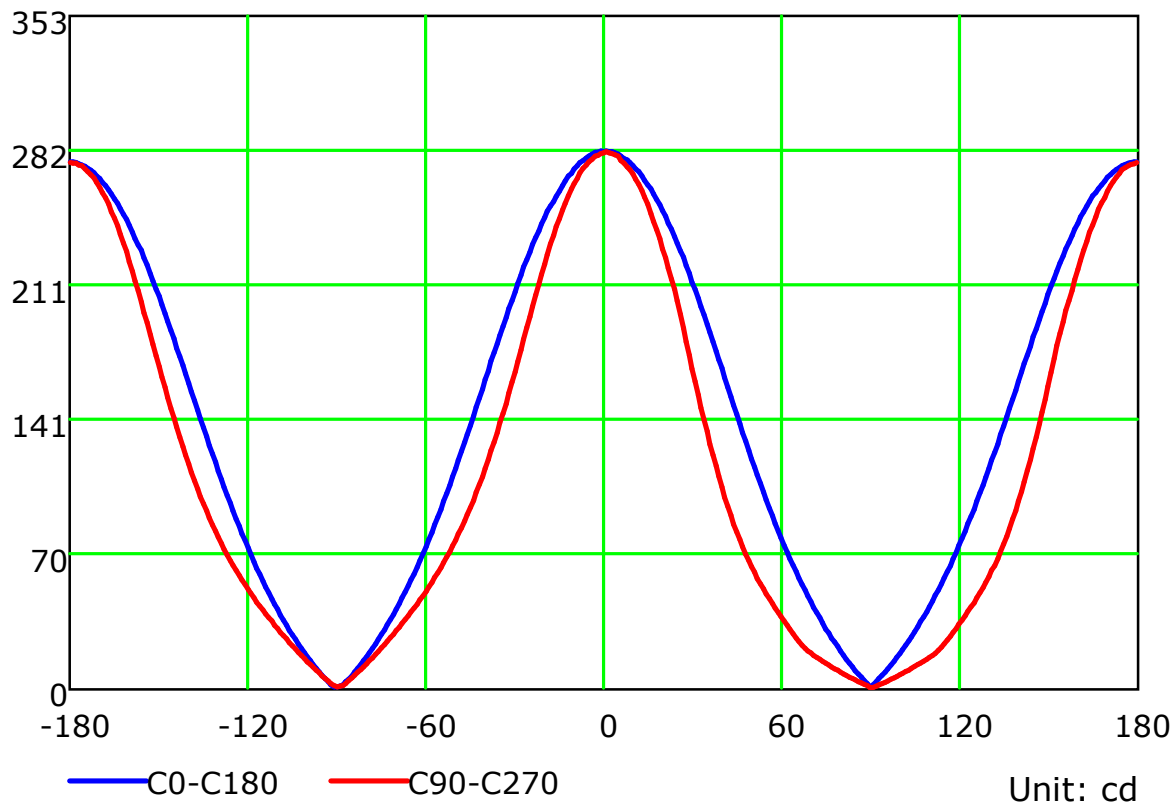
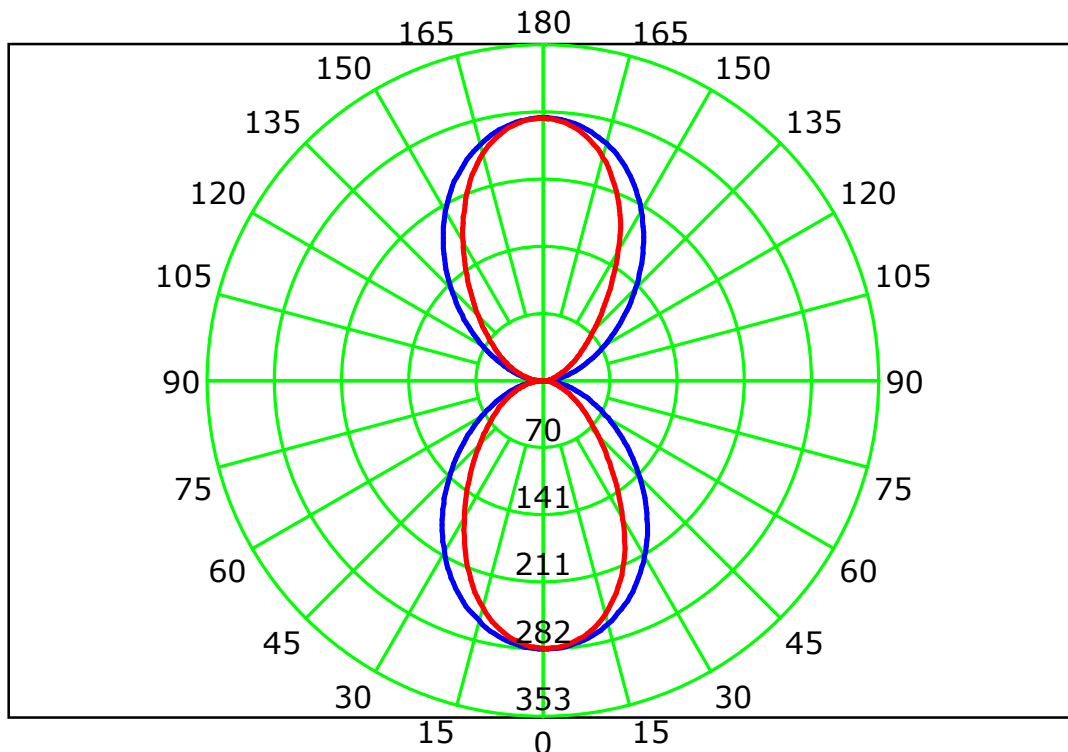
Test Device: GPM-1800B

Distance: 8.499m

Humidity: 65

Inspector:

## Luminous Intensity Distribution Curve



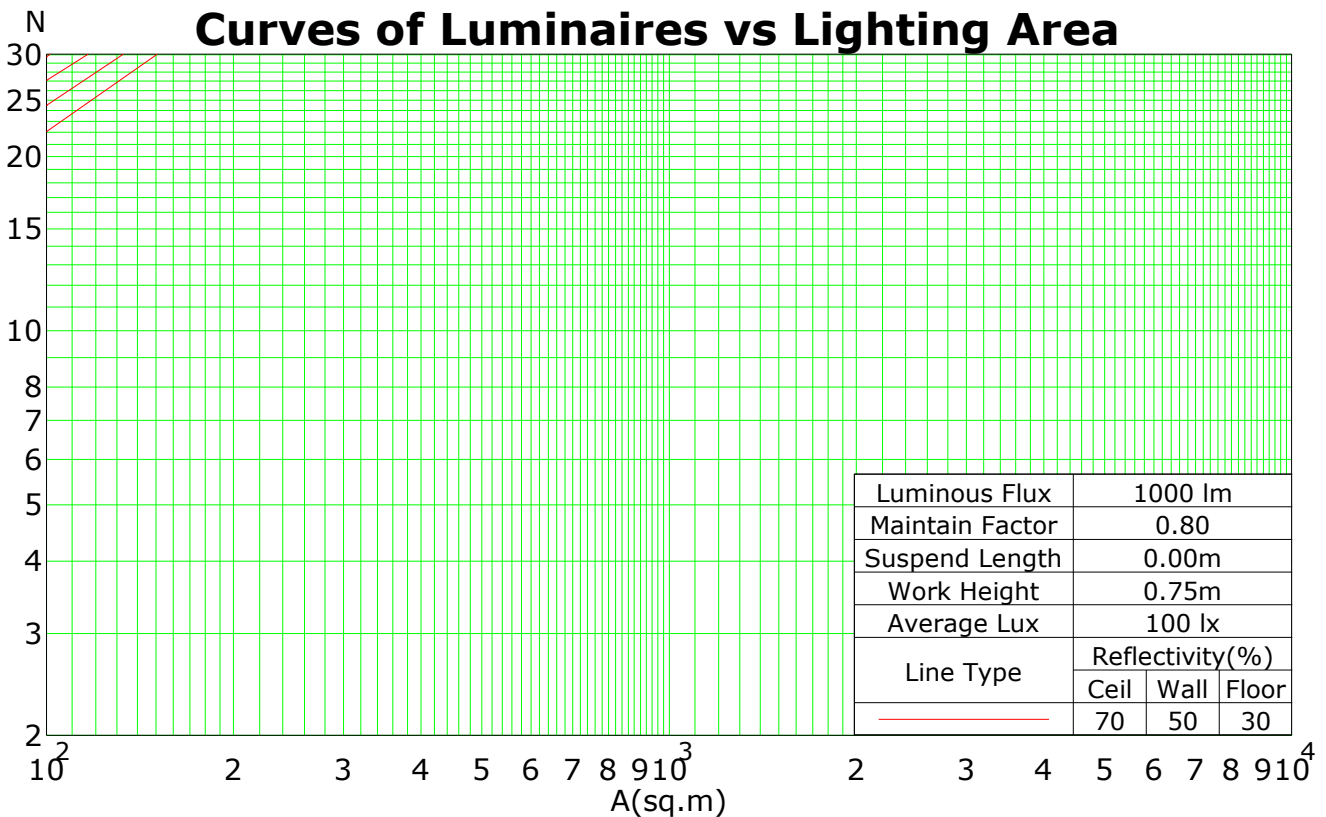
C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	91	87	91	87	84	81	74	72	70	62	60	59	51	50	49	44
2	90	83	77	72	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	83	74	67	61	76	68	62	57	58	54	50	49	46	43	41	39	37	33
4	76	66	58	52	70	61	54	49	52	47	43	44	41	38	37	34	32	29
5	70	59	51	45	64	55	48	43	47	42	38	40	36	33	34	31	28	25
6	65	53	45	39	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	48	40	35	55	45	38	33	39	34	30	34	29	26	28	25	23	20
8	56	44	36	31	52	41	34	30	36	30	27	31	27	24	26	23	21	18
9	52	40	33	28	48	38	31	27	33	28	24	29	24	21	24	21	19	17
10	49	37	30	25	45	35	28	24	30	25	22	26	22	20	23	20	17	15

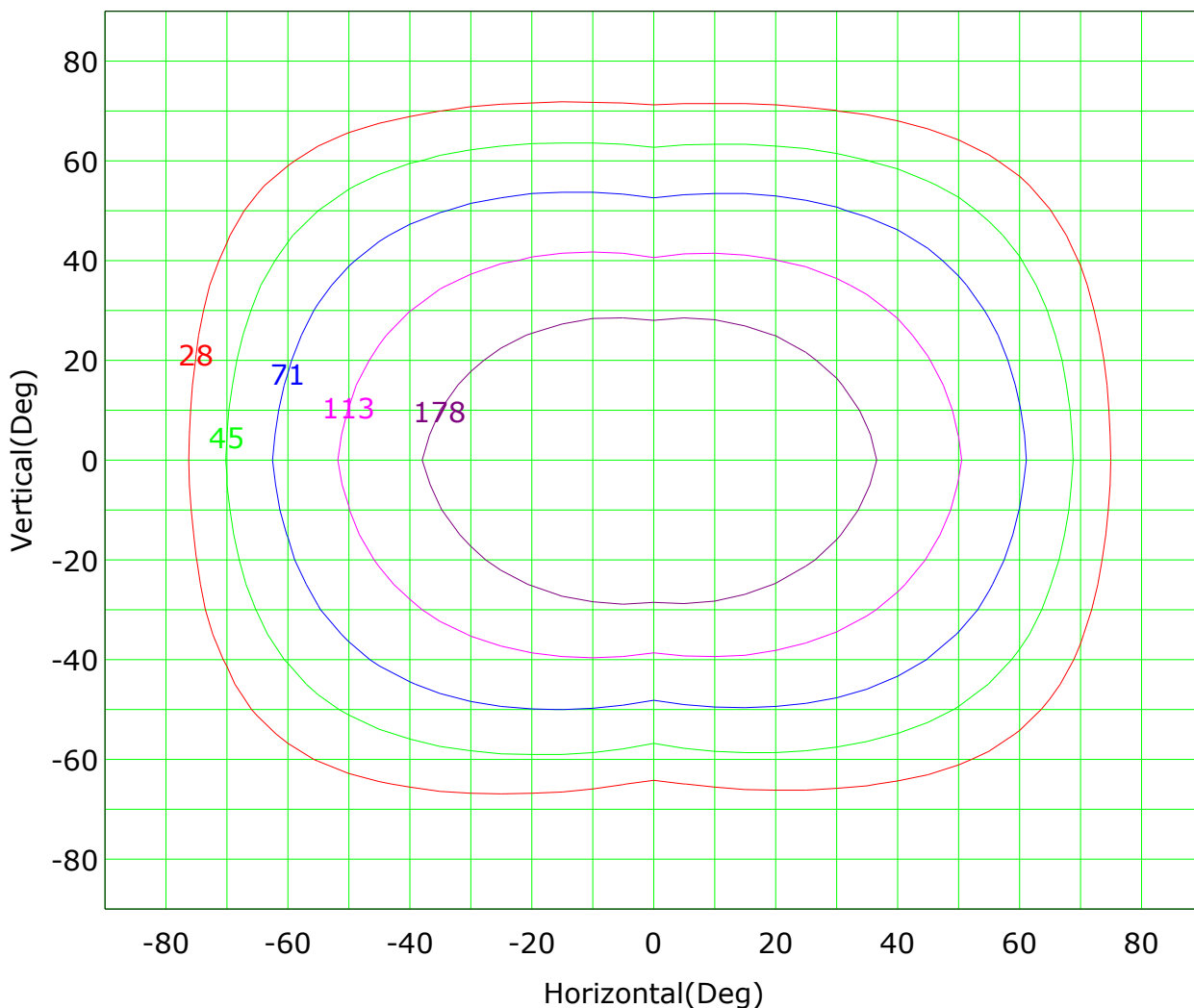
Spacing Criteria (0-180): 1.13  
 Spacing Criteria (90-270): 0.97  
 Spacing Criteria (Diagonal): 1.12



C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.499m  
 Humidity: 65  
 Inspector:

## Isocandela (rectangle)



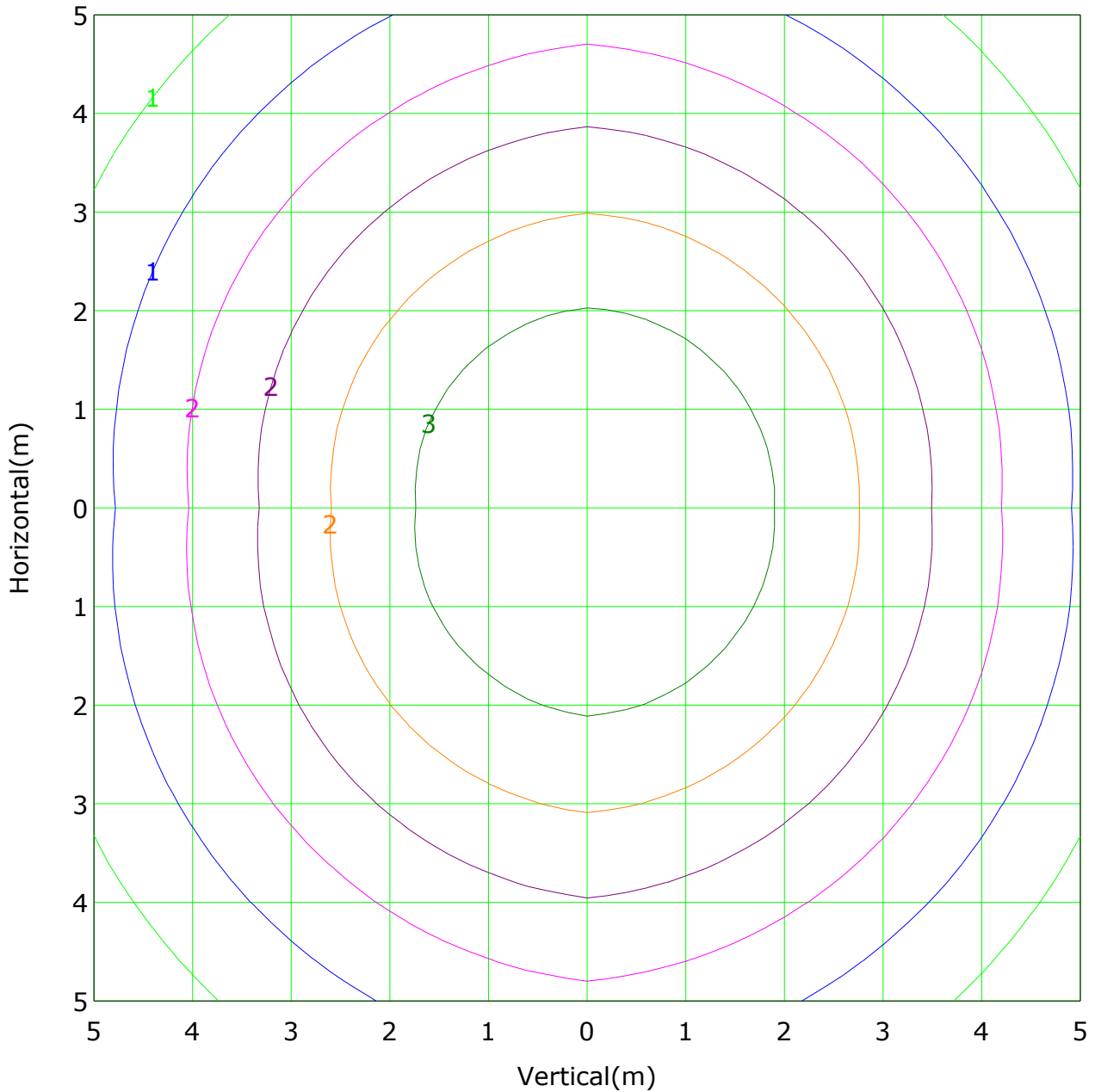
Imax (100%): 282 cd

— ( 10%): 28 cd	— ( 16%): 45 cd
— ( 25%): 71 cd	— ( 40%): 113 cd
— ( 63%): 178 cd	— (100%): 282 cd

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 2.8 lx	
— ( 30%): 0.8 lx	— ( 40%): 1.1 lx	— ( 60%): 1.7 lx	— ( 80%): 2.3 lx
— ( 50%): 1.4 lx	— ( 70%): 2.0 lx	— (100%): 2.8 lx	— (150%): 4.2 lx
— ( 90%): 2.5 lx			
— (120%): 3.4 lx			

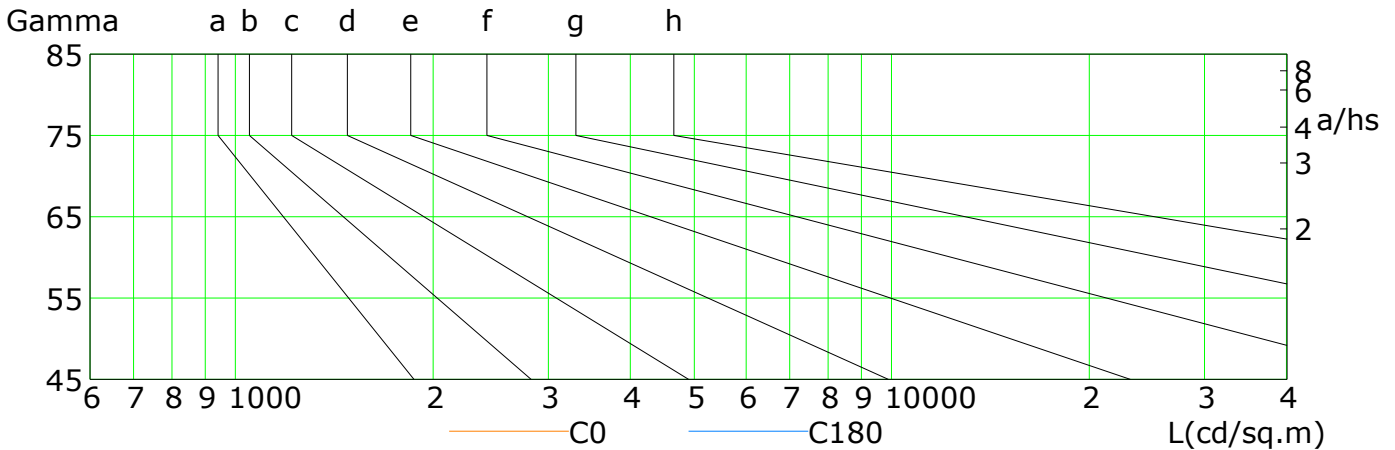
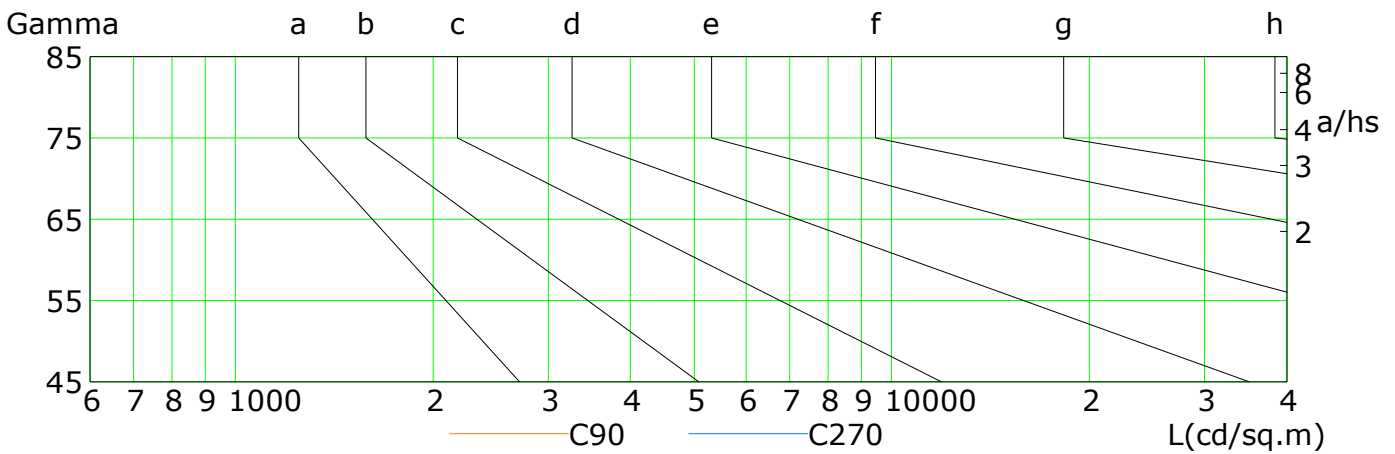
C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
Inspector:

## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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

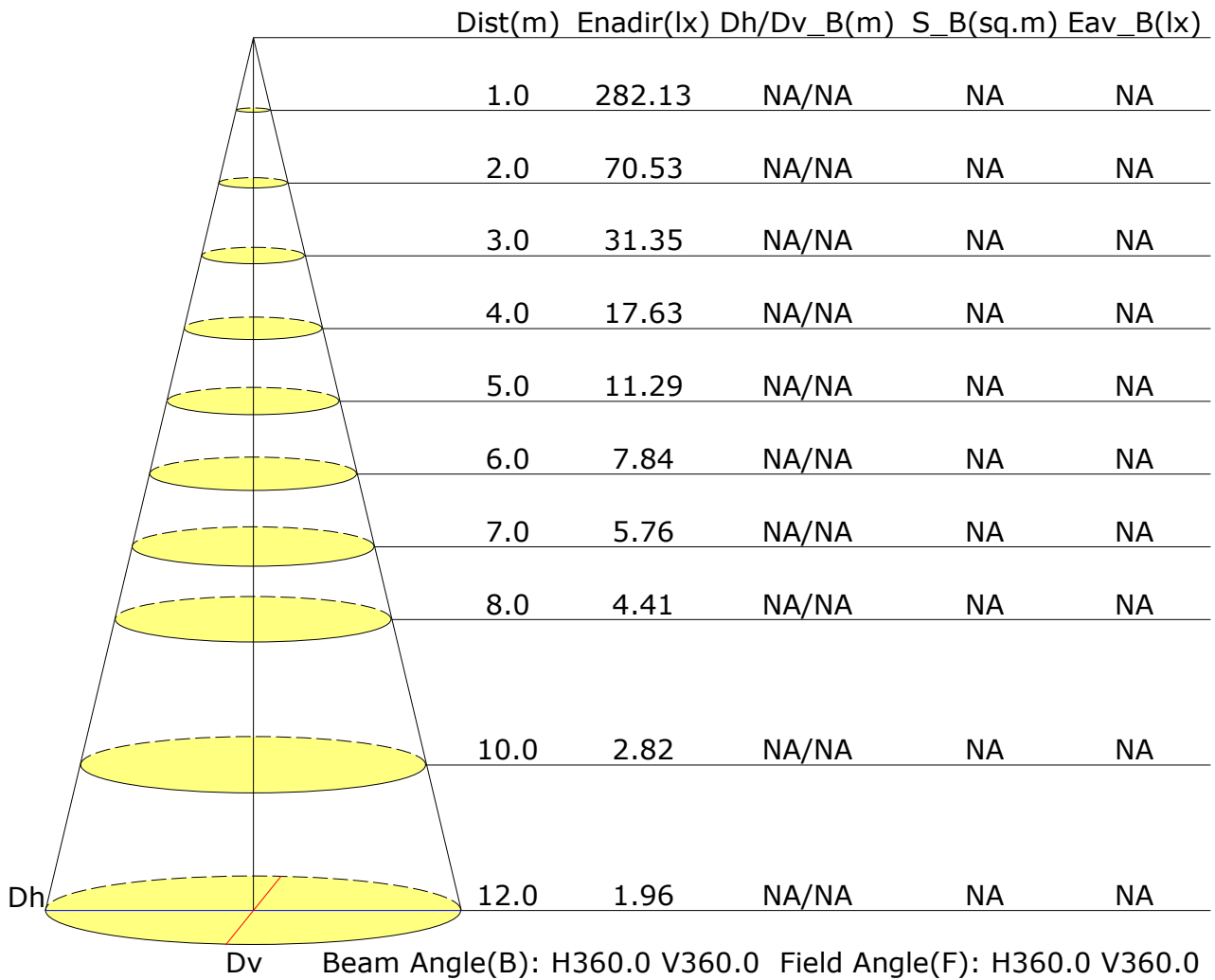


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	144	121	99	79	61	46	31	20	9
C90	82	64	50	38	27	19	13	9	4
C180	138	115	94	75	57	42	28	17	7
C270	95	78	63	51	40	30	21	13	5

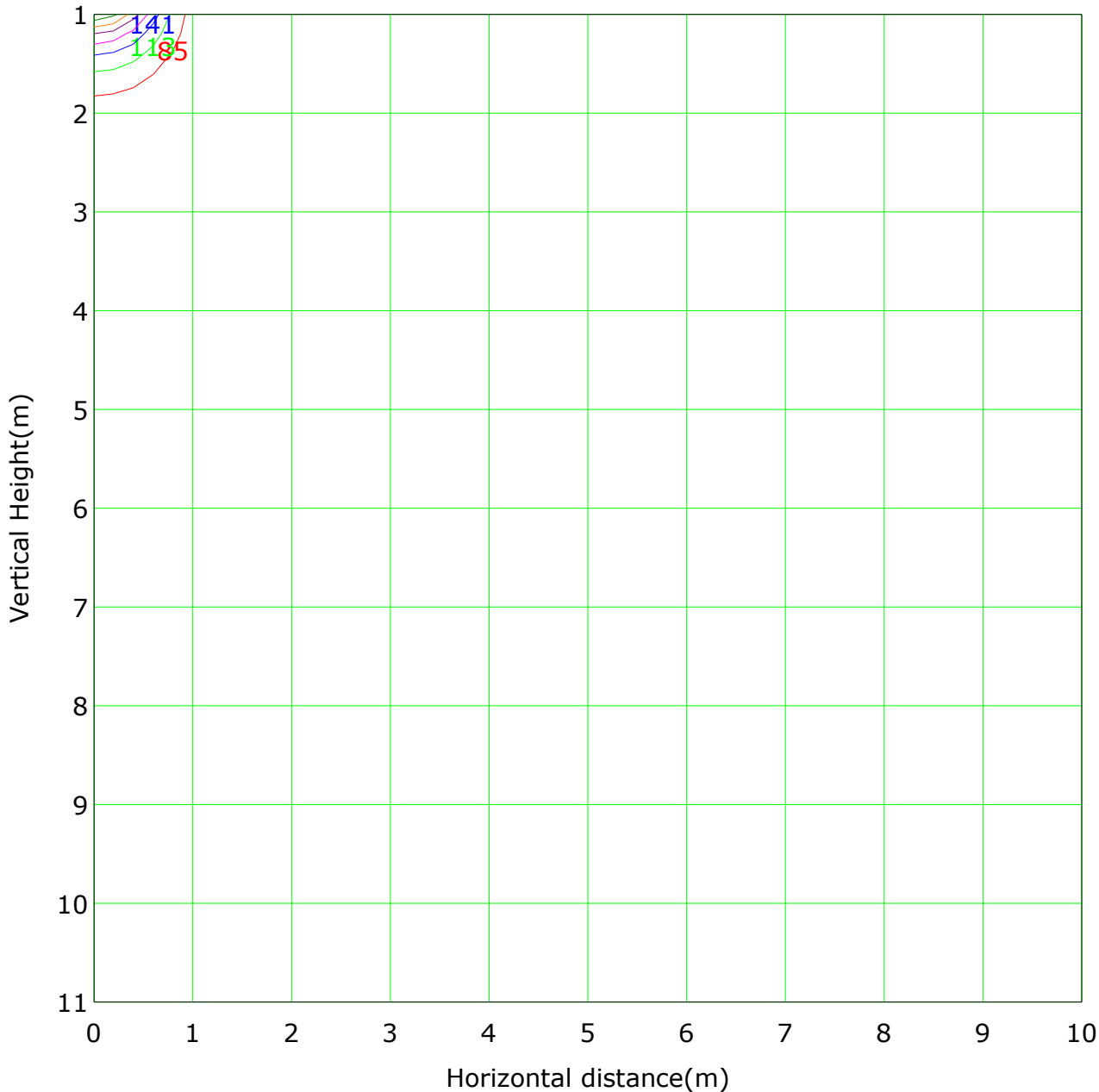
C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



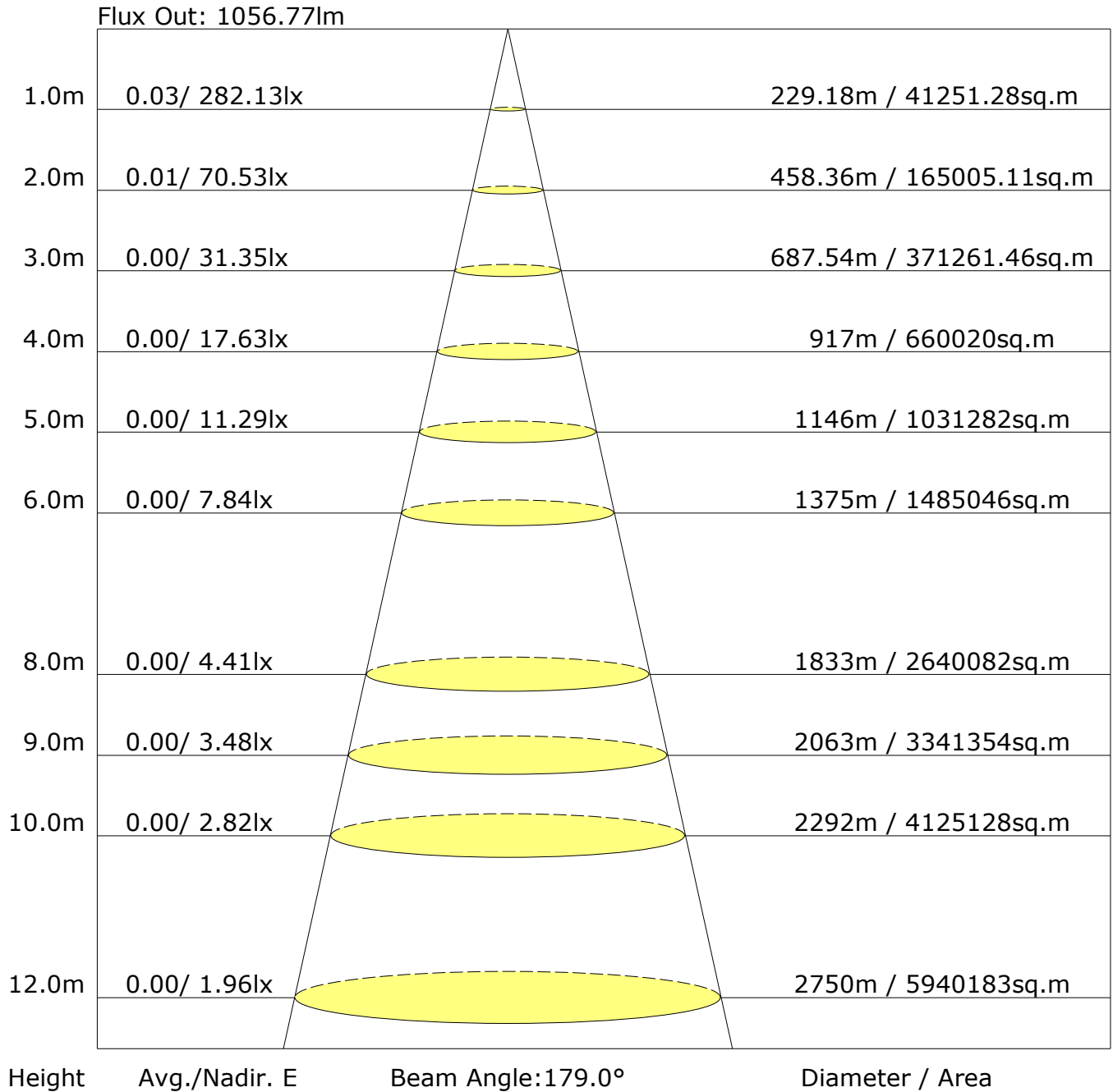
Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 282.1 lx
— ( 30%): 84.6 lx	— ( 40%): 112.9 lx	
— ( 50%): 141.1 lx	— ( 60%): 169.3 lx	
— ( 70%): 197.5 lx	— ( 80%): 225.7 lx	
— ( 90%): 253.9 lx	— (100%): 282.1 lx	
— (120%): 338.6 lx	— (150%): 423.2 lx	

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
Inspector:



## The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
Inspector:

## 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	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/-1.\$					-1.\$/-1.\$				
S=1.5H	-1.\$/-1.\$					-1.\$/-1.\$				
S=2.0H	-1.\$/-1.\$					-1.\$/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with  $1057lm$  ( $8\log(F/F_0) = 0.2$ ).

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
Inspector:

## Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	281.8	0.3	0.3	0.03	0.03
1.0-2.0	281.5	0.8	1.1	0.08	0.10
2.0-3.0	281.1	1.3	2.4	0.13	0.23
3.0-4.0	280.6	1.9	4.3	0.18	0.41
4.0-5.0	279.6	2.4	6.7	0.23	0.63
5.0-6.0	278.3	2.9	9.6	0.28	0.91
6.0-7.0	276.9	3.4	13.1	0.33	1.24
7.0-8.0	275.4	3.9	17.0	0.37	1.61
8.0-9.0	273.7	4.4	21.4	0.42	2.03
9.0-10.0	271.8	4.9	26.4	0.47	2.50
10.0-11.0	269.5	5.4	31.8	0.51	3.00
11.0-12.0	267.2	5.8	37.6	0.55	3.56
12.0-13.0	264.5	6.3	43.9	0.59	4.15
13.0-14.0	261.6	6.7	50.6	0.63	4.79
14.0-15.0	258.4	7.1	57.7	0.67	5.46
15.0-16.0	255.0	7.5	65.1	0.71	6.16
16.0-17.0	251.5	7.8	73.0	0.74	6.91
17.0-18.0	247.9	8.2	81.1	0.77	7.68
18.0-19.0	244.1	8.5	89.6	0.80	8.48
19.0-20.0	240.1	8.8	98.4	0.83	9.31
20.0-21.0	235.9	9.1	107.5	0.86	10.17
21.0-22.0	231.6	9.3	116.8	0.88	11.05
22.0-23.0	227.2	9.5	126.3	0.90	11.95
23.0-24.0	222.6	9.7	136.1	0.92	12.88
24.0-25.0	217.8	9.9	146.0	0.94	13.81
25.0-26.0	212.9	10.1	156.0	0.95	14.76
26.0-27.0	207.7	10.2	166.2	0.96	15.73
27.0-28.0	202.4	10.3	176.4	0.97	16.70
28.0-29.0	197.1	10.3	186.7	0.98	17.67
29.0-30.0	191.7	10.4	197.1	0.98	18.65
30.0-31.0	186.5	10.4	207.5	0.98	19.63
31.0-32.0	181.2	10.4	217.9	0.98	20.62
32.0-33.0	175.8	10.4	228.2	0.98	21.60
33.0-34.0	170.6	10.3	238.5	0.98	22.57
34.0-35.0	165.4	10.3	248.8	0.97	23.55
35.0-36.0	160.3	10.2	259.0	0.97	24.51

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
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	155.1	10.1	269.1	0.96	25.47
37.0-38.0	150.1	10.0	279.2	0.95	26.42
38.0-39.0	145.2	9.9	289.1	0.94	27.35
39.0-40.0	140.3	9.8	298.9	0.93	28.28
40.0-41.0	135.4	9.6	308.5	0.91	29.19
41.0-42.0	130.7	9.5	318.0	0.90	30.09
42.0-43.0	126.1	9.3	327.3	0.88	30.98
43.0-44.0	121.5	9.2	336.5	0.87	31.84
44.0-45.0	117.0	9.0	345.5	0.85	32.69
45.0-46.0	112.7	8.8	354.3	0.83	33.53
46.0-47.0	108.5	8.6	363.0	0.82	34.35
47.0-48.0	104.4	8.4	371.4	0.80	35.14
48.0-49.0	100.3	8.2	379.6	0.78	35.92
49.0-50.0	96.4	8.0	387.7	0.76	36.68
50.0-51.0	92.7	7.8	395.5	0.74	37.43
51.0-52.0	88.9	7.6	403.1	0.72	38.15
52.0-53.0	85.3	7.4	410.6	0.70	38.85
53.0-54.0	81.7	7.2	417.8	0.68	39.53
54.0-55.0	78.2	7.0	424.7	0.66	40.19
55.0-56.0	74.8	6.8	431.5	0.64	40.83
56.0-57.0	71.6	6.5	438.1	0.62	41.45
57.0-58.0	68.3	6.3	444.4	0.60	42.05
58.0-59.0	65.1	6.1	450.5	0.58	42.63
59.0-60.0	62.1	5.9	456.3	0.56	43.18
60.0-61.0	59.1	5.6	462.0	0.53	43.71
61.0-62.0	56.1	5.4	467.4	0.51	44.23
62.0-63.0	53.2	5.2	472.5	0.49	44.72
63.0-64.0	50.4	4.9	477.5	0.47	45.18
64.0-65.0	47.6	4.7	482.2	0.45	45.63
65.0-66.0	45.0	4.5	486.7	0.42	46.05
66.0-67.0	42.3	4.3	491.0	0.40	46.46
67.0-68.0	39.8	4.0	495.0	0.38	46.84
68.0-69.0	37.4	3.8	498.8	0.36	47.20
69.0-70.0	35.2	3.6	502.4	0.34	47.54
70.0-71.0	32.9	3.4	505.8	0.32	47.86
71.0-72.0	30.8	3.2	509.0	0.30	48.17

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	28.7	3.0	512.0	0.28	48.45
73.0-74.0	26.6	2.8	514.8	0.26	48.72
74.0-75.0	24.5	2.6	517.4	0.25	48.96
75.0-76.0	22.5	2.4	519.8	0.23	49.19
76.0-77.0	20.7	2.2	522.0	0.21	49.40
77.0-78.0	18.8	2.0	524.0	0.19	49.59
78.0-79.0	17.0	1.8	525.9	0.17	49.76
79.0-80.0	15.3	1.6	527.5	0.16	49.92
80.0-81.0	13.6	1.5	529.0	0.14	50.06
81.0-82.0	11.9	1.3	530.3	0.12	50.18
82.0-83.0	10.3	1.1	531.4	0.11	50.28
83.0-84.0	8.8	1.0	532.3	0.09	50.37
84.0-85.0	7.3	0.8	533.1	0.07	50.45
85.0-86.0	5.8	0.6	533.8	0.06	50.51
86.0-87.0	4.4	0.5	534.2	0.05	50.55
87.0-88.0	3.0	0.3	534.6	0.03	50.59
88.0-89.0	2.0	0.2	534.8	0.02	50.61
89.0-90.0	1.2	0.1	534.9	0.01	50.62
90.0-91.0	1.0	0.1	535.0	0.01	50.63
91.0-92.0	1.7	0.2	535.2	0.02	50.65
92.0-93.0	2.9	0.3	535.5	0.03	50.68
93.0-94.0	4.2	0.5	536.0	0.04	50.72
94.0-95.0	5.6	0.6	536.6	0.06	50.78
95.0-96.0	7.1	0.8	537.4	0.07	50.85
96.0-97.0	8.5	0.9	538.3	0.09	50.94
97.0-98.0	10.1	1.1	539.4	0.10	51.04
98.0-99.0	11.6	1.3	540.7	0.12	51.16
99.0-100.0	13.2	1.4	542.1	0.14	51.30
100.0-101.0	14.9	1.6	543.7	0.15	51.45
101.0-102.0	16.6	1.8	545.5	0.17	51.62
102.0-103.0	18.3	2.0	547.5	0.19	51.81
103.0-104.0	20.1	2.1	549.6	0.20	52.01
104.0-105.0	22.0	2.3	551.9	0.22	52.23
105.0-106.0	24.0	2.5	554.5	0.24	52.47
106.0-107.0	25.9	2.7	557.2	0.26	52.73
107.0-108.0	27.9	2.9	560.1	0.28	53.00

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.499m  
 Humidity: 65  
 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	29.8	3.1	563.2	0.29	53.30
109.0-110.0	31.9	3.3	566.5	0.31	53.61
110.0-111.0	34.1	3.5	570.0	0.33	53.94
111.0-112.0	36.3	3.7	573.7	0.35	54.29
112.0-113.0	38.6	3.9	577.6	0.37	54.66
113.0-114.0	41.0	4.1	581.8	0.39	55.05
114.0-115.0	43.5	4.3	586.1	0.41	55.46
115.0-116.0	46.1	4.6	590.7	0.43	55.89
116.0-117.0	48.8	4.8	595.5	0.45	56.35
117.0-118.0	51.5	5.0	600.5	0.47	56.82
118.0-119.0	54.3	5.2	605.7	0.50	57.32
119.0-120.0	57.2	5.5	611.2	0.52	57.83
120.0-121.0	60.2	5.7	616.9	0.54	58.37
121.0-122.0	63.2	5.9	622.8	0.56	58.93
122.0-123.0	66.3	6.1	628.9	0.58	59.51
123.0-124.0	69.5	6.4	635.2	0.60	60.11
124.0-125.0	72.7	6.6	641.8	0.62	60.73
125.0-126.0	76.0	6.8	648.6	0.64	61.38
126.0-127.0	79.4	7.0	655.6	0.66	62.04
127.0-128.0	82.9	7.2	662.8	0.68	62.72
128.0-129.0	86.4	7.4	670.2	0.70	63.42
129.0-130.0	90.0	7.6	677.8	0.72	64.14
130.0-131.0	93.9	7.8	685.7	0.74	64.88
131.0-132.0	97.7	8.0	693.7	0.76	65.64
132.0-133.0	101.5	8.2	701.9	0.78	66.42
133.0-134.0	105.5	8.4	710.3	0.79	67.21
134.0-135.0	109.7	8.6	718.9	0.81	68.03
135.0-136.0	114.1	8.8	727.6	0.83	68.86
136.0-137.0	118.3	8.9	736.6	0.85	69.70
137.0-138.0	122.8	9.1	745.7	0.86	70.56
138.0-139.0	127.5	9.3	754.9	0.88	71.44
139.0-140.0	132.1	9.4	764.3	0.89	72.33
140.0-141.0	136.9	9.6	773.9	0.90	73.23
141.0-142.0	141.7	9.7	783.6	0.92	74.15
142.0-143.0	146.5	9.8	793.3	0.93	75.07
143.0-144.0	151.5	9.9	803.2	0.94	76.01

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
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	156.6	10.0	813.2	0.94	76.95
145.0-146.0	161.6	10.0	823.2	0.95	77.90
146.0-147.0	166.8	10.1	833.3	0.96	78.86
147.0-148.0	172.1	10.1	843.5	0.96	79.82
148.0-149.0	177.2	10.2	853.6	0.96	80.78
149.0-150.0	182.5	10.2	863.8	0.96	81.74
150.0-151.0	187.8	10.1	873.9	0.96	82.70
151.0-152.0	193.1	10.1	884.0	0.96	83.66
152.0-153.0	198.3	10.0	894.1	0.95	84.61
153.0-154.0	203.4	10.0	904.0	0.94	85.55
154.0-155.0	208.4	9.8	913.9	0.93	86.48
155.0-156.0	213.2	9.7	923.6	0.92	87.40
156.0-157.0	217.7	9.5	933.1	0.90	88.30
157.0-158.0	222.1	9.3	942.4	0.88	89.18
158.0-159.0	226.5	9.1	951.5	0.86	90.04
159.0-160.0	230.8	8.9	960.4	0.84	90.88
160.0-161.0	235.0	8.6	969.0	0.81	91.69
161.0-162.0	239.0	8.3	977.3	0.79	92.48
162.0-163.0	242.8	8.0	985.3	0.76	93.24
163.0-164.0	246.5	7.7	993.0	0.73	93.96
164.0-165.0	249.9	7.3	1000.3	0.69	94.66
165.0-166.0	253.0	6.9	1007.2	0.66	95.31
166.0-167.0	256.0	6.6	1013.8	0.62	95.93
167.0-168.0	258.9	6.1	1019.9	0.58	96.51
168.0-169.0	261.5	5.7	1025.7	0.54	97.06
169.0-170.0	263.9	5.3	1030.9	0.50	97.55
170.0-171.0	266.1	4.8	1035.7	0.46	98.01
171.0-172.0	268.2	4.3	1040.1	0.41	98.42
172.0-173.0	270.0	3.9	1044.0	0.37	98.79
173.0-174.0	271.5	3.4	1047.3	0.32	99.11
174.0-175.0	272.9	2.9	1050.2	0.27	99.38
175.0-176.0	274.1	2.4	1052.6	0.22	99.60
176.0-177.0	275.0	1.8	1054.4	0.17	99.78
177.0-178.0	275.6	1.3	1055.7	0.12	99.90
178.0-179.0	276.0	0.8	1056.5	0.07	99.97
179.0-180.0	276.3	0.3	1056.8	0.03	100.00

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
Inspector:

## Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	282.1	281.2	282.1	281.2	282.1					
G1.0	282.5	281.8	282.3	281.1	282.5					
G2.0	281.9	281.2	281.5	280.0	281.9					
G3.0	282.1	280.9	281.5	279.6	282.1					
G4.0	281.4	280.4	280.6	278.0	281.4					
G5.0	280.6	279.5	279.6	276.6	280.6					
G6.0	279.6	277.4	278.6	274.8	279.6					
G7.0	278.4	275.8	277.1	273.3	278.4					
G8.0	277.7	273.9	276.3	270.9	277.7					
G9.0	276.1	272.4	274.4	267.9	276.1					
G10.0	274.7	270.2	272.9	265.3	274.7					
G11.0	272.8	267.3	270.7	262.4	272.8					
G12.0	271.5	264.9	269.2	258.8	271.5					
G13.0	269.2	261.5	266.5	254.9	269.2					
G14.0	266.9	258.1	264.2	251.4	266.9					
G15.0	264.6	254.3	261.0	246.8	264.6					
G16.0	262.5	249.5	258.5	242.7	262.5					
G17.0	259.7	245.4	255.6	237.8	259.7					
G18.0	256.6	240.9	253.4	233.5	256.6					
G19.0	254.0	236.3	250.6	227.9	254.0					
G20.0	251.1	230.9	247.4	222.8	251.1					
G21.0	247.9	226.1	243.9	217.4	247.9					
G22.0	244.3	220.8	240.1	212.4	244.3					
G23.0	241.3	215.0	237.1	206.6	241.3					
G24.0	237.3	209.6	233.1	200.6	237.3					
G25.0	233.8	203.5	229.2	195.2	233.8					
G26.0	229.8	196.7	225.1	189.6	229.8					
G27.0	226.4	189.1	221.6	183.5	226.4					
G28.0	222.0	182.1	217.1	177.8	222.0					
G29.0	218.1	175.0	212.8	171.7	218.1					
G30.0	213.5	168.1	208.5	166.3	213.5					
G31.0	209.6	161.3	203.7	161.0	209.6					
G32.0	205.1	154.0	199.6	155.3	205.1					
G33.0	200.5	147.6	194.9	149.6	200.5					
G34.0	196.2	141.2	190.1	144.5	196.2					
G35.0	191.3	134.9	185.5	139.6	191.3					
G36.0	187.1	128.3	181.2	134.3	187.1					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.499m  
 Humidity: 65  
 Inspector:



## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	182.0	122.5	176.2	129.3	182.0					
G38.0	177.2	116.8	171.9	124.8	177.2					
G39.0	172.6	111.4	166.7	120.1	172.6					
G40.0	168.2	105.6	162.3	115.4	168.2					
G41.0	163.2	100.5	157.2	111.0	163.2					
G42.0	158.3	95.7	152.3	107.1	158.3					
G43.0	153.3	91.1	147.9	103.0	153.3					
G44.0	148.6	86.2	143.1	98.7	148.6					
G45.0	144.2	82.2	138.2	94.9	144.2					
G46.0	139.1	78.2	133.5	91.4	139.1					
G47.0	134.5	74.5	129.1	87.8	134.5					
G48.0	130.0	70.6	124.5	84.2	130.0					
G49.0	125.0	67.2	119.8	81.1	125.0					
G50.0	120.7	64.0	115.4	77.9	120.7					
G51.0	116.2	61.0	111.2	74.8	116.2					
G52.0	112.0	57.8	106.6	71.7	112.0					
G53.0	107.7	55.0	102.4	69.0	107.7					
G54.0	103.2	52.3	98.3	66.0	103.2					
G55.0	99.0	49.7	93.8	63.5	99.0					
G56.0	94.7	47.2	90.0	60.8	94.7					
G57.0	90.8	44.6	86.0	58.4	90.8					
G58.0	86.5	42.2	81.9	55.7	86.5					
G59.0	82.7	39.9	78.2	53.4	82.7					
G60.0	79.3	37.7	74.6	51.1	79.3					
G61.0	75.3	35.3	70.9	48.7	75.3					
G62.0	71.6	33.2	67.2	46.7	71.6					
G63.0	68.1	31.0	63.9	44.3	68.1					
G64.0	64.7	28.6	60.2	42.3	64.7					
G65.0	61.4	26.5	57.1	40.2	61.4					
G66.0	58.1	24.6	53.9	38.0	58.1					
G67.0	54.7	22.8	50.5	36.2	54.7					
G68.0	51.6	21.0	47.6	34.2	51.6					
G69.0	48.6	19.7	44.7	32.2	48.6					
G70.0	45.7	18.6	41.6	30.3	45.7					
G71.0	42.5	17.4	38.7	28.5	42.5					
G72.0	39.8	16.4	36.1	26.6	39.8					
G73.0	37.0	15.3	33.4	24.8	37.0					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.499m  
 Humidity: 65  
 Inspector:

## Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	34.3	14.3	30.7	23.0	34.3					
G75.0	31.1	13.2	28.3	21.3	31.1					
G76.0	28.9	12.3	25.8	19.4	28.9					
G77.0	26.5	11.3	23.2	17.9	26.5					
G78.0	24.3	10.4	21.0	16.1	24.3					
G79.0	21.9	9.4	18.8	14.5	21.9					
G80.0	19.6	8.5	16.6	12.9	19.6					
G81.0	17.4	7.7	14.5	11.4	17.4					
G82.0	15.4	6.8	12.5	9.9	15.4					
G83.0	13.3	6.0	10.5	8.4	13.3					
G84.0	11.3	5.2	8.6	6.9	11.3					
G85.0	9.4	4.4	6.7	5.5	9.4					
G86.0	7.5	3.7	4.8	4.1	7.5					
G87.0	5.8	2.9	3.4	2.6	5.8					
G88.0	4.1	2.2	1.9	1.5	4.1					
G89.0	2.5	1.5	1.0	1.2	2.5					
G90.0	0.9	0.6	0.7	1.0	0.9					
G91.0	1.9	0.7	0.9	1.4	1.9					
G92.0	3.4	1.2	2.0	2.5	3.4					
G93.0	5.1	1.9	3.5	3.7	5.1					
G94.0	6.8	2.6	5.2	5.2	6.8					
G95.0	8.5	3.3	6.9	6.7	8.5					
G96.0	10.3	4.0	8.6	8.1	10.3					
G97.0	12.3	4.8	10.6	9.5	12.3					
G98.0	14.3	5.5	12.5	11.1	14.3					
G99.0	16.3	6.3	14.5	12.6	16.3					
G100.0	18.3	7.2	16.7	14.1	18.3					
G101.0	20.5	8.0	18.8	15.8	20.5					
G102.0	22.8	8.8	21.0	17.3	22.8					
G103.0	25.0	9.7	23.3	18.9	25.0					
G104.0	27.0	10.6	25.7	20.7	27.0					
G105.0	29.8	11.6	28.2	22.4	29.8					
G106.0	32.4	12.5	30.6	24.2	32.4					
G107.0	35.2	13.4	33.1	25.9	35.2					
G108.0	37.5	14.4	35.8	27.7	37.5					
G109.0	40.0	15.4	38.6	29.5	40.0					
G110.0	42.8	16.4	41.4	31.4	42.8					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.499m  
 Humidity: 65  
 Inspector:

## Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	45.9	17.5	44.2	33.3	45.9					
G112.0	48.8	18.5	47.1	35.3	48.8					
G113.0	51.7	19.9	50.2	37.1	51.7					
G114.0	55.0	21.5	53.4	39.2	55.0					
G115.0	58.1	23.4	56.4	41.1	58.1					
G116.0	61.4	25.5	59.9	43.3	61.4					
G117.0	64.5	27.4	63.1	45.3	64.5					
G118.0	67.9	29.5	66.6	47.6	67.9					
G119.0	71.4	31.5	70.3	49.9	71.4					
G120.0	75.3	33.8	73.7	52.0	75.3					
G121.0	78.7	35.8	77.8	54.6	78.7					
G122.0	82.5	38.2	81.3	56.9	82.5					
G123.0	86.5	40.4	85.3	59.4	86.5					
G124.0	90.4	42.7	88.9	62.1	90.4					
G125.0	94.1	45.0	93.3	64.7	94.1					
G126.0	98.4	47.7	97.3	67.3	98.4					
G127.0	102.6	50.3	101.4	70.3	102.6					
G128.0	106.6	52.9	105.9	73.3	106.6					
G129.0	110.8	55.6	109.9	76.1	110.8					
G130.0	115.4	58.8	114.2	79.5	115.4					
G131.0	119.8	62.0	118.8	82.6	119.8					
G132.0	124.0	64.5	123.4	86.1	124.0					
G133.0	128.4	68.2	127.5	89.8	128.4					
G134.0	133.2	71.7	132.2	93.3	133.2					
G135.0	137.8	75.8	137.0	96.9	137.8					
G136.0	142.8	79.7	141.6	100.9	142.8					
G137.0	147.1	84.0	146.0	104.6	147.1					
G138.0	151.7	88.8	151.0	109.1	151.7					
G139.0	156.6	93.4	155.8	113.4	156.6					
G140.0	161.4	98.3	160.3	117.7	161.4					
G141.0	166.3	103.4	165.4	122.7	166.3					
G142.0	170.7	108.6	169.6	127.0	170.7					
G143.0	175.2	114.6	174.5	132.0	175.2					
G144.0	179.9	120.2	178.8	137.3	179.9					
G145.0	184.7	126.1	183.9	142.2	184.7					
G146.0	188.9	132.1	188.1	147.1	188.9					
G147.0	193.8	138.9	192.8	152.8	193.8					

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.499m  
Humidity: 65  
Inspector:

## Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	197.9	145.2	196.9	158.4	197.9					
G149.0	202.4	151.7	201.6	163.7	202.4					
G150.0	207.1	158.6	205.9	169.0	207.1					
G151.0	211.2	166.1	209.5	174.8	211.2					
G152.0	215.4	173.3	213.9	180.7	215.4					
G153.0	219.1	180.1	217.9	185.8	219.1					
G154.0	223.3	186.4	222.4	192.0	223.3					
G155.0	227.3	192.4	226.1	197.3	227.3					
G156.0	230.7	198.4	230.2	203.0	230.7					
G157.0	234.2	203.7	232.8	208.9	234.2					
G158.0	237.8	209.1	236.4	213.9	237.8					
G159.0	241.4	214.7	239.6	219.0	241.4					
G160.0	244.3	220.1	243.1	224.2	244.3					
G161.0	247.7	224.6	246.2	229.6	247.7					
G162.0	250.4	230.2	249.1	233.8	250.4					
G163.0	253.6	234.8	252.1	238.4	253.6					
G164.0	255.8	239.5	254.6	242.9	255.8					
G165.0	258.6	243.4	257.1	247.1	258.6					
G166.0	260.4	247.6	259.6	250.3	260.4					
G167.0	262.5	251.5	261.9	254.2	262.5					
G168.0	264.5	254.9	264.1	257.6	264.5					
G169.0	266.6	257.8	266.0	260.6	266.6					
G170.0	268.4	261.0	267.7	263.0	268.4					
G171.0	269.8	264.0	269.3	265.7	269.8					
G172.0	271.3	266.3	270.9	268.3	271.3					
G173.0	272.5	268.5	272.1	269.9	272.5					
G174.0	273.5	270.4	273.3	271.6	273.5					
G175.0	274.5	272.4	274.2	272.9	274.5					
G176.0	275.3	273.7	275.0	274.6	275.3					
G177.0	275.9	274.6	275.7	274.8	275.9					
G178.0	276.2	275.3	276.1	275.8	276.2					
G179.0	276.5	275.6	276.5	275.9	276.5					
G180.0	276.6	276.4	276.6	276.4	276.6					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.499m  
 Humidity: 65  
 Inspector: