

Report No.: TH-2205A

Test Time: 2021/1/8 16:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: LH20018B-S

Current: 0.117A

Power Factor: 0.939

Voltage: 120V

Power: 13.15W

Photometric Results

CIE Class: General Diffuse

Measurement Flux: 612.1 lm

Downward Ratio: 50%

Horizontal Diffuse Angle(50%): H80.2

Vertical Diffuse Angle(50%): V82.2

Luminaire Efficacy Rating (LER): 46.60

Max. Intensity: 174.01 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 612.1 lm

Efficiency: 100%

Upward Ratio: 50%

Central Intensity: 171.5 cd

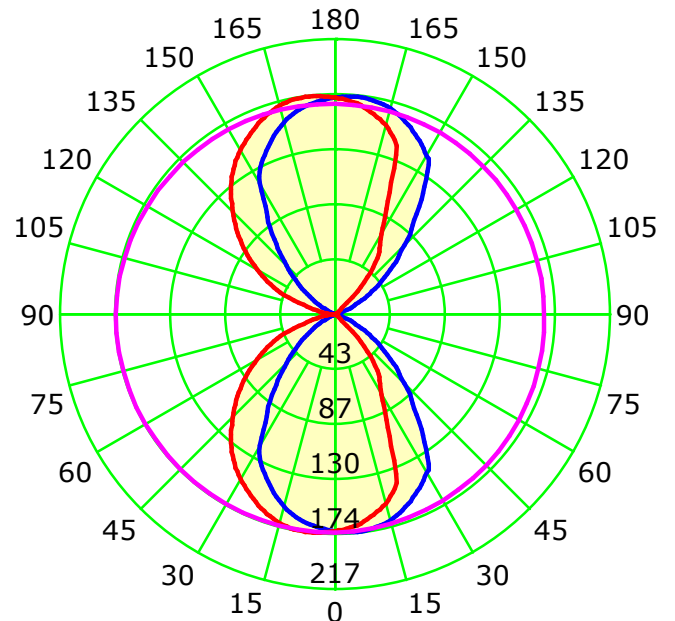
Pos of Max. Intensity: H270 V8

S/MH(C90/C270): 1.02

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 360.0°

— C0-C180 — C90-C270 — G8

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

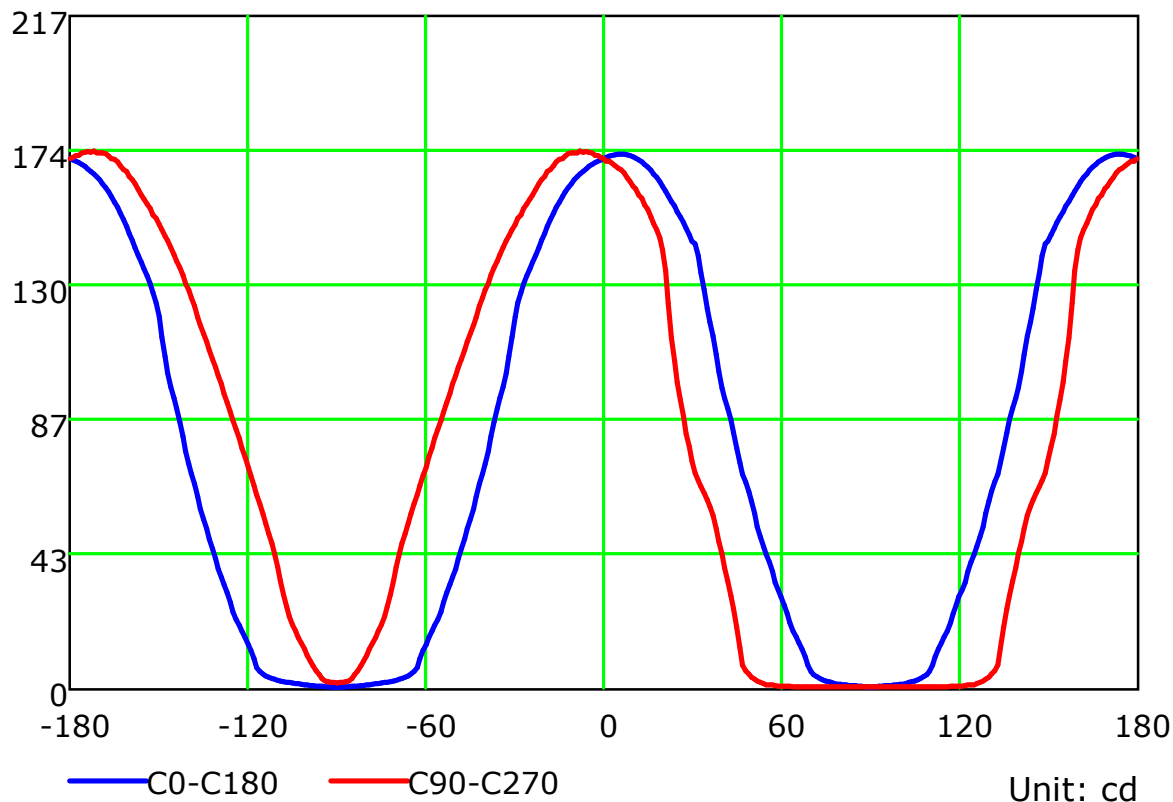
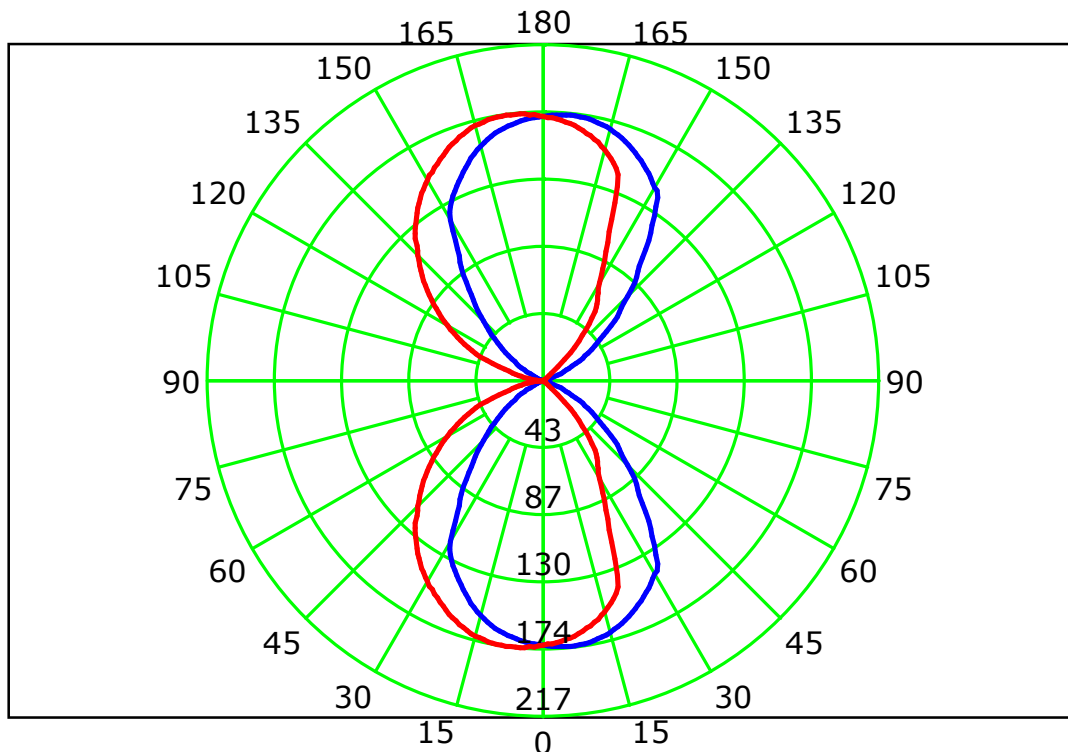
Test Device: GPM-1800B

Distance: 8.598m

Humidity: 65

Inspector:

Luminous Intensity Distribution Curve



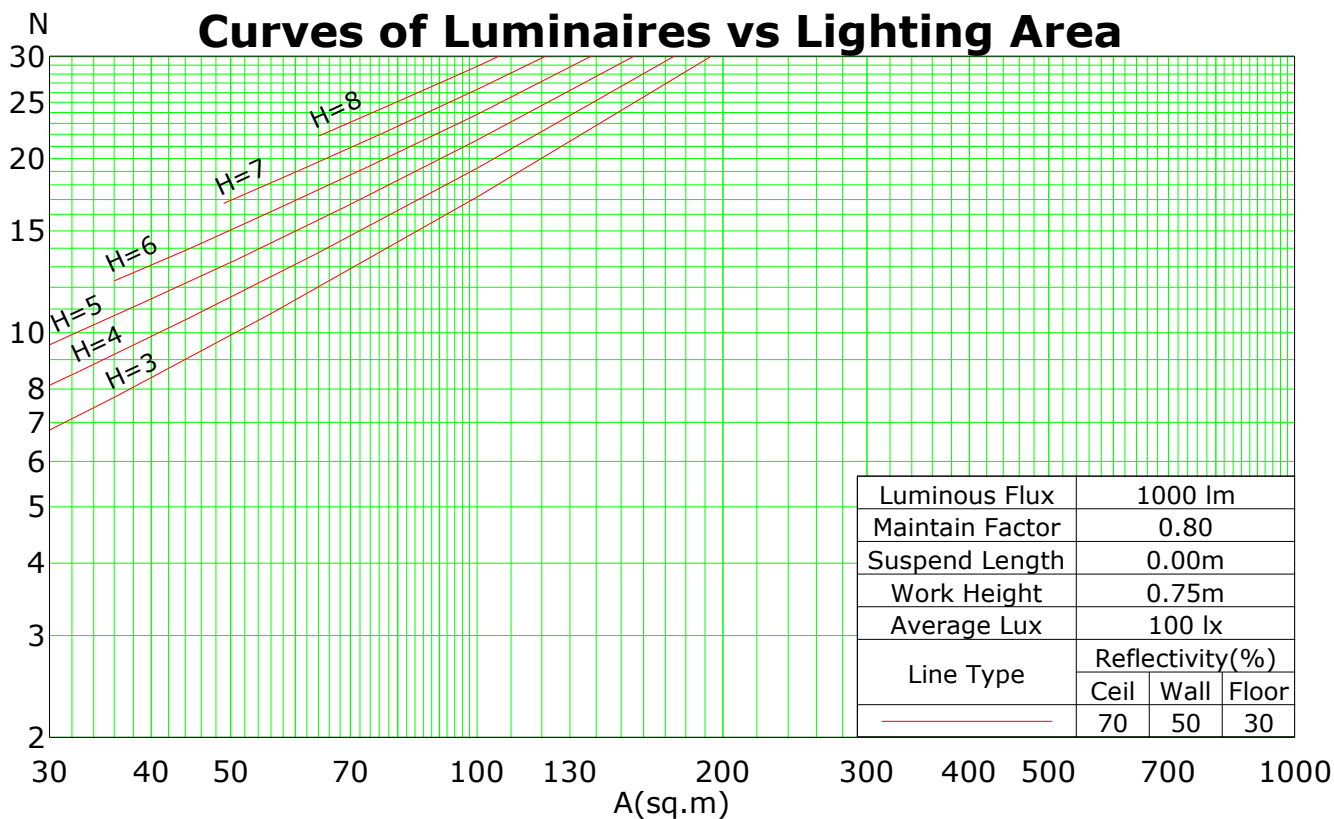
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598m
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	83	83	83	69	69	69	56	56	56	50
1	99	95	91	88	91	88	85	82	75	73	71	62	61	60	51	50	49	44
2	91	84	79	74	84	78	73	69	67	63	60	56	54	52	46	45	43	39
3	84	75	68	63	77	70	64	59	60	55	52	51	47	45	42	40	38	34
4	77	67	60	54	71	62	56	51	54	49	45	46	42	39	38	36	34	30
5	71	60	53	47	66	56	49	44	49	43	40	42	38	35	35	32	30	27
6	66	54	47	41	61	51	44	39	44	39	35	38	34	31	32	29	27	24
7	61	49	42	37	56	46	40	35	40	35	31	35	31	28	30	27	24	22
8	57	45	38	33	53	42	36	31	37	32	28	32	28	25	27	24	22	20
9	53	41	34	29	49	39	32	28	34	29	25	30	26	23	25	22	20	18
10	50	38	31	27	46	36	30	25	32	27	23	28	24	21	24	21	19	17

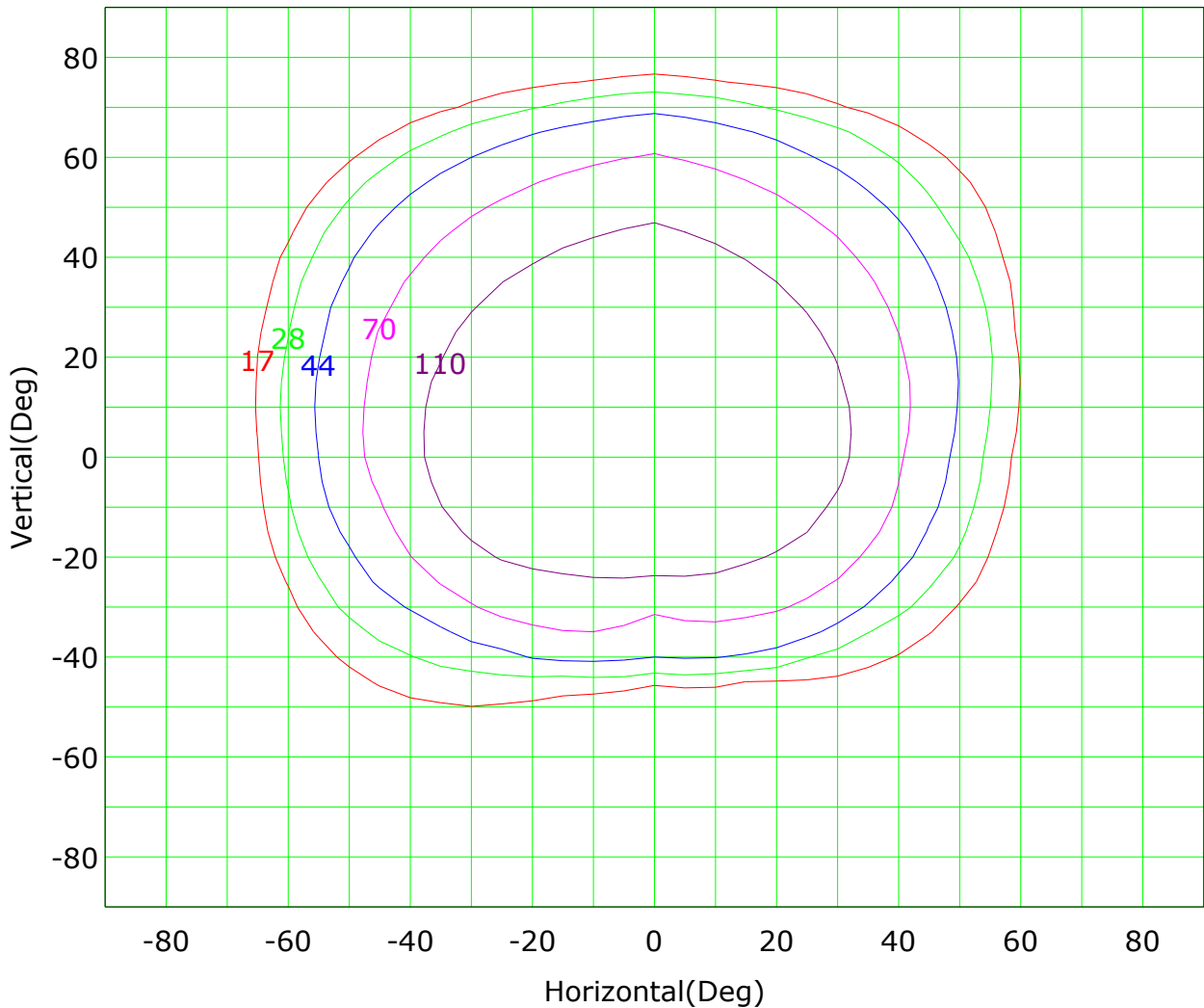
Spacing Criteria (0-180): 1.16
 Spacing Criteria (90-270): 1.02
 Spacing Criteria (Diagonal): 1.14



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: 8.598m
 Humidity: 65
 Inspector:

Isocandela (rectangle)



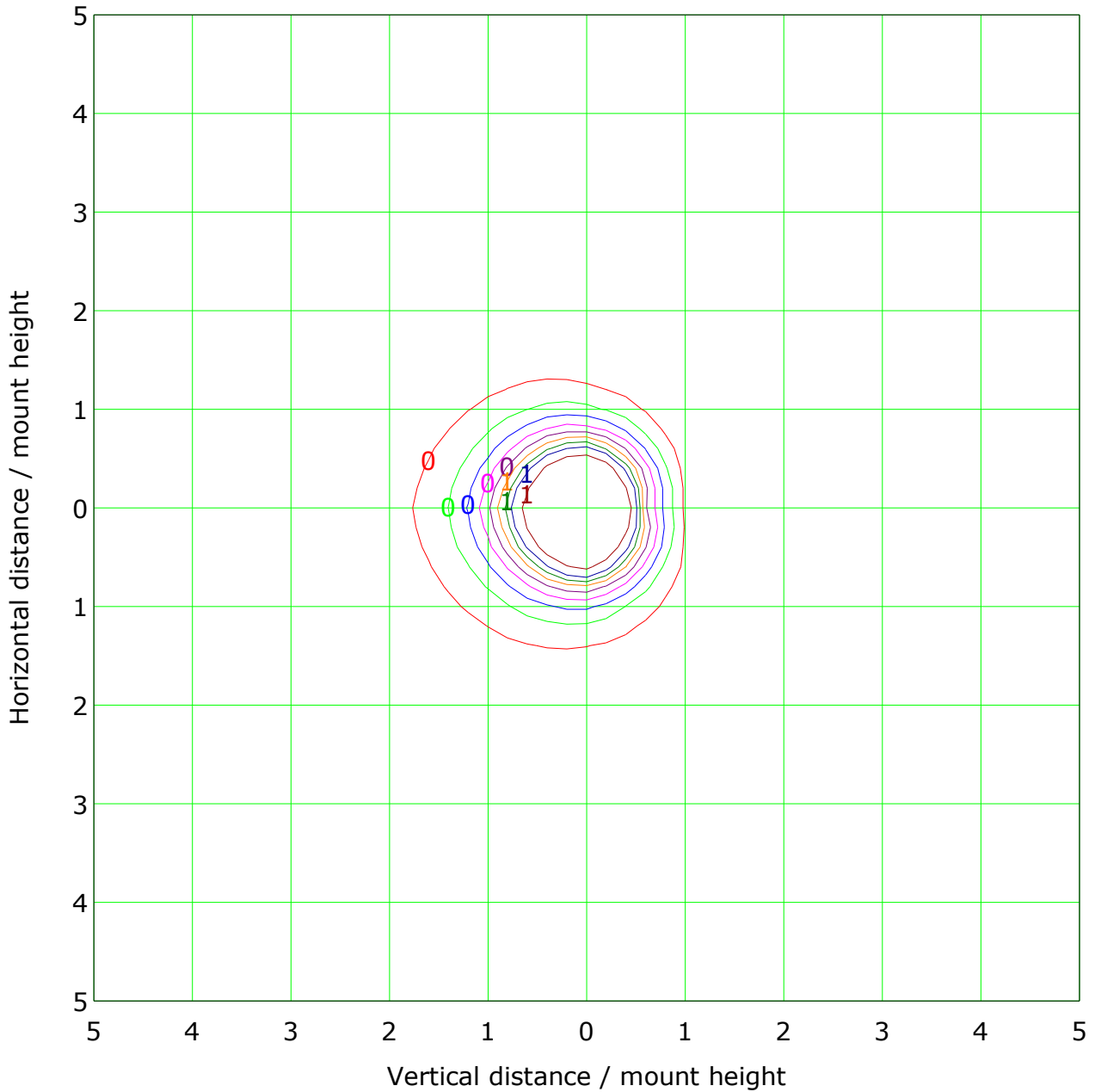
Imax (100%): 174 cd

— (10%):	17 cd	— (16%):	28 cd
— (25%):	44 cd	— (40%):	70 cd
— (63%):	110 cd	— (100%):	174 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: 8.598m
Humidity: 65
Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 1.7 lx	
— (5%): 0.1 lx	— (10%): 0.2 lx	— (20%): 0.3 lx	— (30%): 0.5 lx
— (15%): 0.3 lx	— (25%): 0.4 lx	— (35%): 0.6 lx	— (40%): 0.7 lx
— (50%): 0.9 lx	— (100%): 1.7 lx		

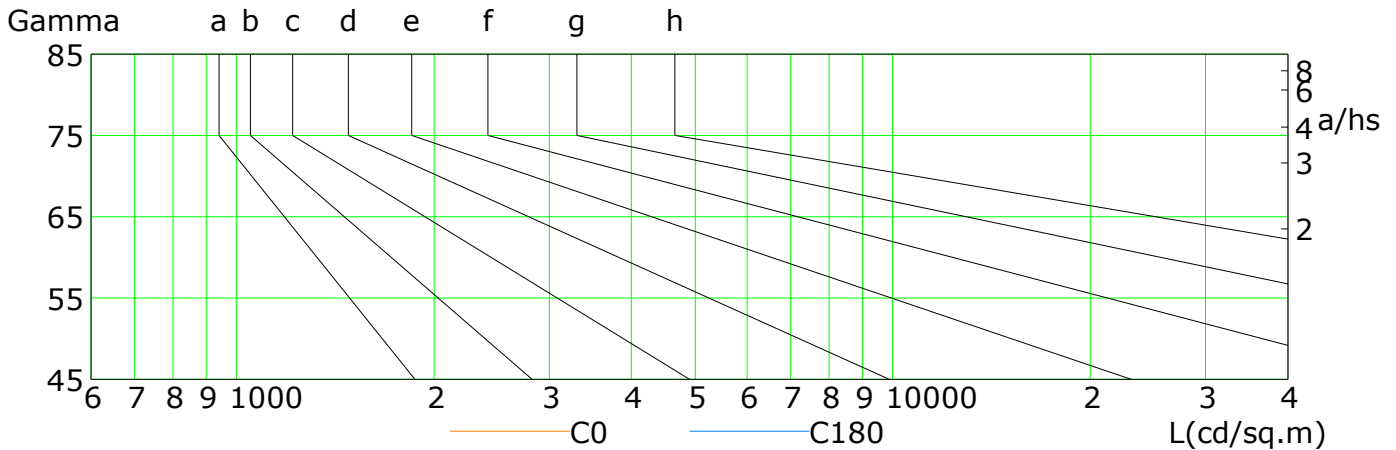
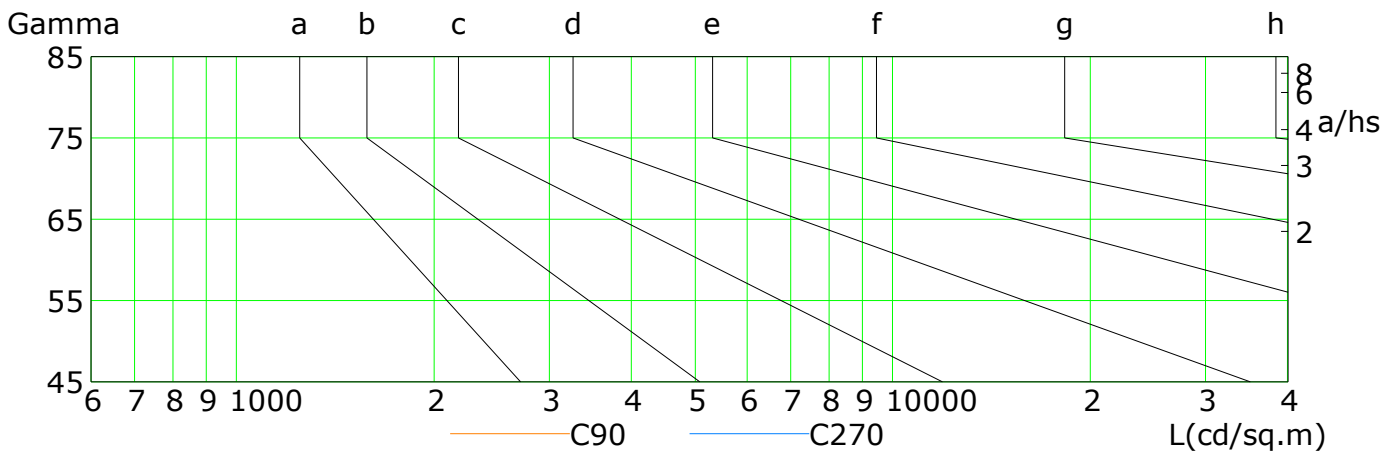
C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.598m
 Humidity: 65
 Inspector:

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

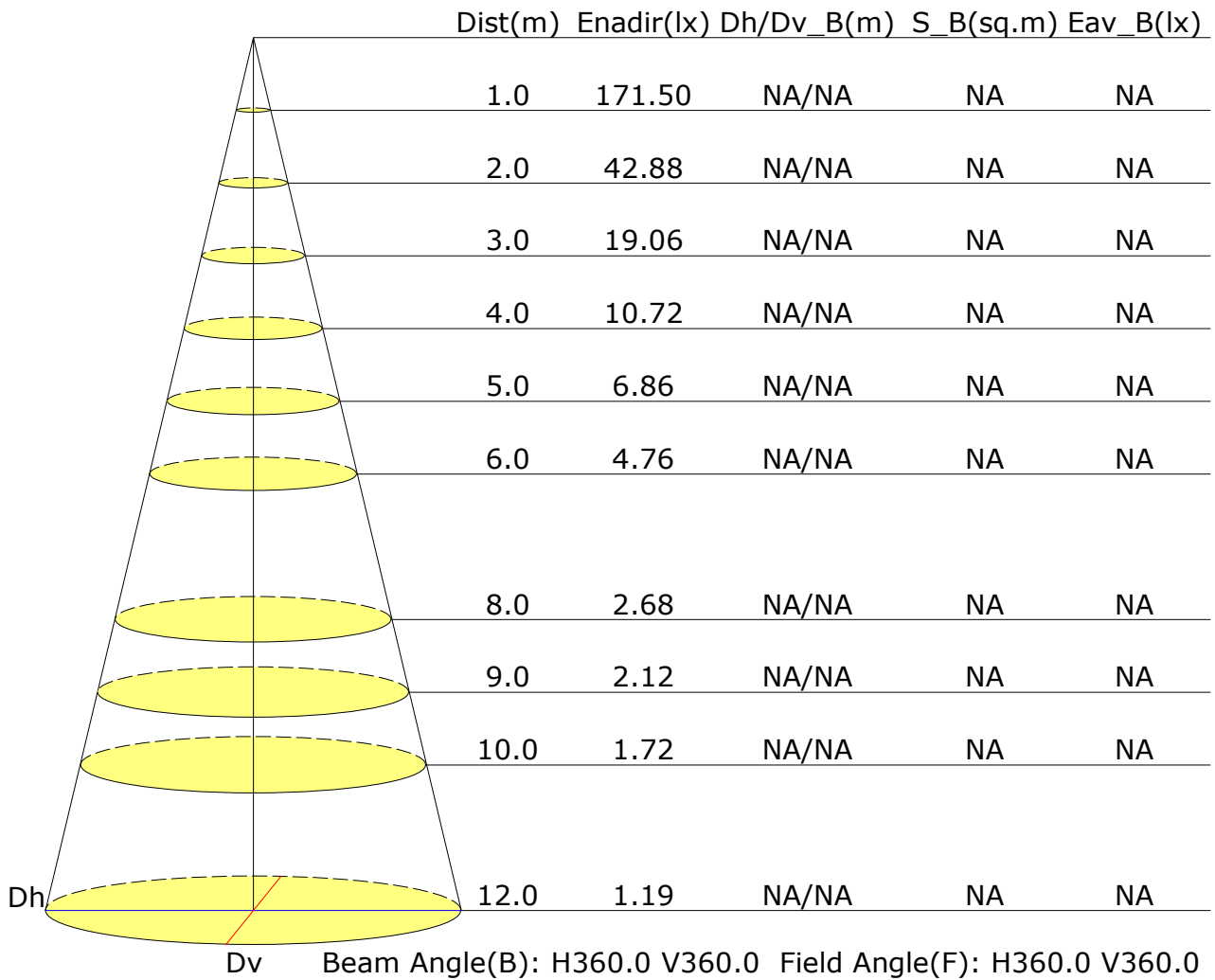


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	78	61	43	30	17	5	2	1	1
C90	20	4	1	1	1	1	1	0	0
C180	55	39	25	14	5	3	2	1	1
C270	115	101	87	72	56	39	21	11	3

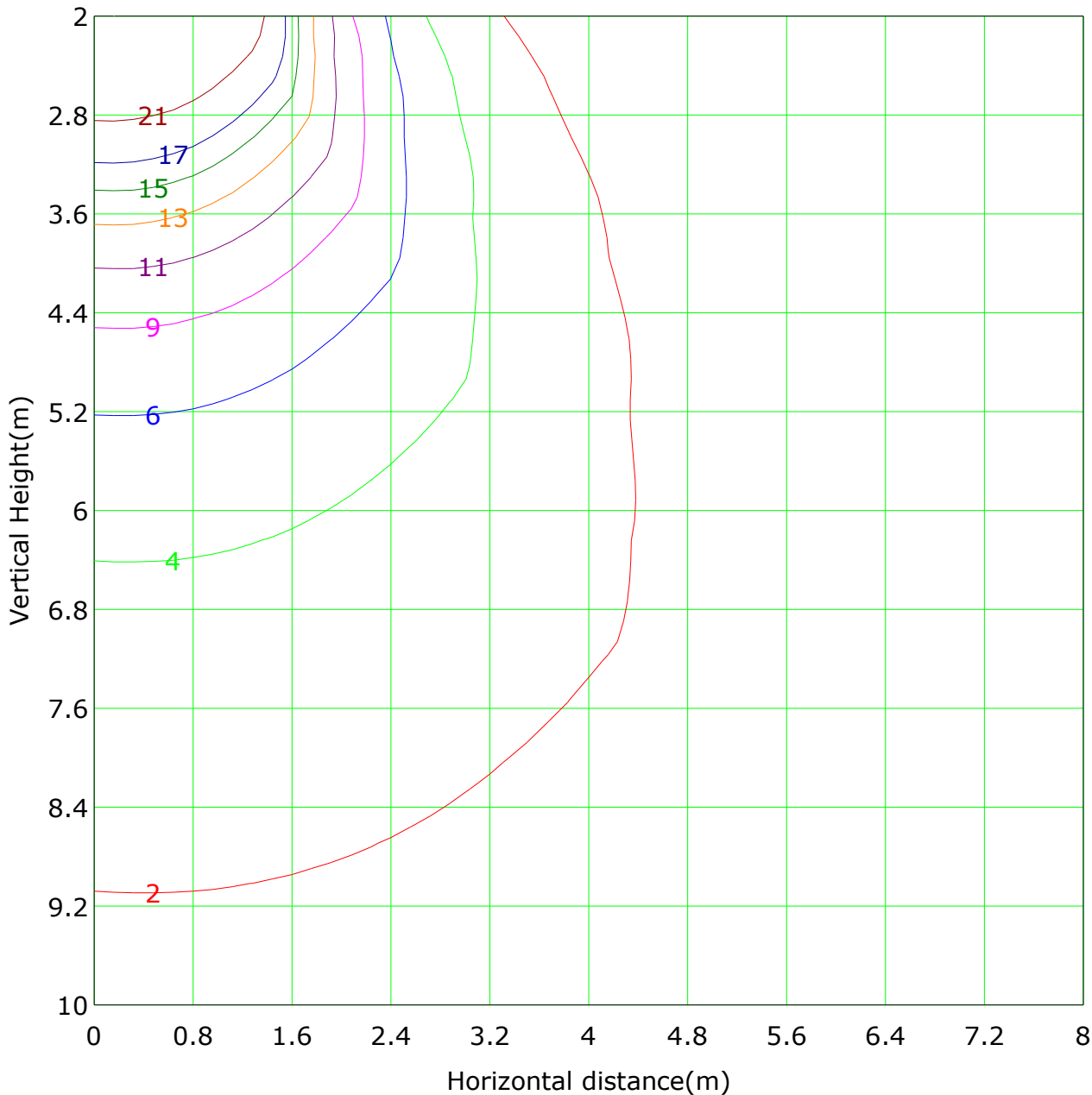
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598m
Humidity: 65
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

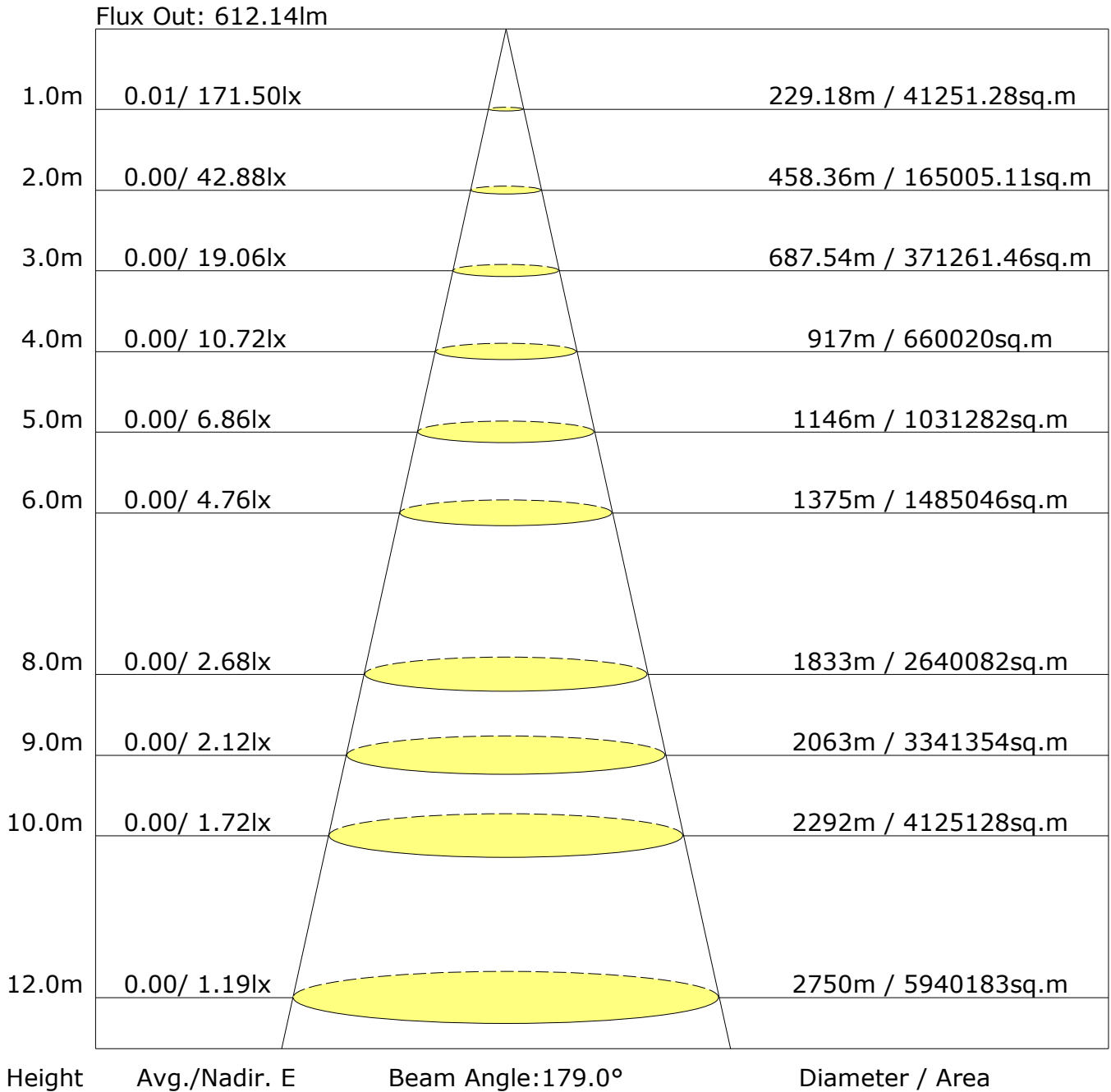


Lowest(m): 2.0m	Highest(m): 10.0m	Max Lux: 42.9 lx
— (5%): 2.1 lx	— (10%): 4.3 lx	
— (15%): 6.4 lx	— (20%): 8.6 lx	
— (25%): 10.7 lx	— (30%): 12.9 lx	
— (35%): 15.0 lx	— (40%): 17.2 lx	
— (50%): 21.5 lx	— (100%): 42.9 lx	

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: 8.598m
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: 8.598m
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										
S=1.5H										
S=2.0H										

Calculate in accordance with CIE Pub.117. The table is revised with $612lm (8\log(F/F_0) = -1.7)$.

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: 8.598m
Humidity: 65
Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	171.4	0.2	0.2	0.03	0.03
1.0-2.0	171.4	0.5	0.7	0.08	0.11
2.0-3.0	171.4	0.8	1.5	0.13	0.24
3.0-4.0	171.2	1.1	2.6	0.19	0.43
4.0-5.0	171.0	1.5	4.1	0.24	0.67
5.0-6.0	170.8	1.8	5.9	0.29	0.96
6.0-7.0	170.4	2.1	8.0	0.35	1.31
7.0-8.0	169.9	2.4	10.4	0.40	1.70
8.0-9.0	169.3	2.7	13.2	0.45	2.15
9.0-10.0	168.5	3.1	16.2	0.50	2.65
10.0-11.0	167.8	3.4	19.6	0.55	3.20
11.0-12.0	167.0	3.7	23.2	0.60	3.80
12.0-13.0	165.9	3.9	27.2	0.64	4.44
13.0-14.0	164.8	4.2	31.4	0.69	5.13
14.0-15.0	163.6	4.5	35.9	0.73	5.86
15.0-16.0	162.3	4.8	40.6	0.78	6.64
16.0-17.0	160.8	5.0	45.6	0.82	7.46
17.0-18.0	159.2	5.2	50.9	0.86	8.31
18.0-19.0	157.5	5.5	56.4	0.90	9.21
19.0-20.0	155.5	5.7	62.1	0.93	10.14
20.0-21.0	152.9	5.9	67.9	0.96	11.10
21.0-22.0	149.4	6.0	73.9	0.98	12.08
22.0-23.0	145.3	6.1	80.0	1.00	13.08
23.0-24.0	141.5	6.2	86.2	1.01	14.09
24.0-25.0	138.4	6.3	92.5	1.03	15.11
25.0-26.0	135.4	6.4	98.9	1.04	16.16
26.0-27.0	132.6	6.5	105.4	1.06	17.22
27.0-28.0	129.6	6.6	112.0	1.07	18.29
28.0-29.0	126.8	6.6	118.6	1.08	19.37
29.0-30.0	123.8	6.7	125.3	1.09	20.47
30.0-31.0	120.5	6.7	132.0	1.10	21.56
31.0-32.0	117.1	6.7	138.7	1.10	22.66
32.0-33.0	113.5	6.7	145.4	1.09	23.75
33.0-34.0	109.9	6.7	152.0	1.09	24.84
34.0-35.0	106.3	6.6	158.7	1.08	25.92
35.0-36.0	103.1	6.6	165.2	1.07	26.99

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: 8.598m
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	99.9	6.5	171.7	1.06	28.06
37.0-38.0	95.9	6.4	178.1	1.05	29.10
38.0-39.0	91.6	6.3	184.4	1.02	30.12
39.0-40.0	87.6	6.1	190.5	1.00	31.12
40.0-41.0	83.9	6.0	196.5	0.98	32.10
41.0-42.0	80.5	5.9	202.3	0.96	33.05
42.0-43.0	76.8	5.7	208.0	0.93	33.98
43.0-44.0	72.9	5.5	213.5	0.90	34.88
44.0-45.0	68.9	5.3	218.8	0.87	35.75
45.0-46.0	64.7	5.1	223.9	0.83	36.57
46.0-47.0	60.6	4.8	228.7	0.79	37.36
47.0-48.0	57.4	4.6	233.3	0.76	38.12
48.0-49.0	54.8	4.5	237.8	0.74	38.85
49.0-50.0	52.3	4.4	242.2	0.71	39.57
50.0-51.0	49.8	4.2	246.4	0.69	40.25
51.0-52.0	47.2	4.1	250.5	0.66	40.92
52.0-53.0	44.8	3.9	254.4	0.64	41.55
53.0-54.0	42.4	3.7	258.1	0.61	42.16
54.0-55.0	40.1	3.6	261.7	0.58	42.75
55.0-56.0	38.0	3.4	265.1	0.56	43.31
56.0-57.0	36.0	3.3	268.4	0.54	43.85
57.0-58.0	34.0	3.1	271.5	0.51	44.36
58.0-59.0	32.0	3.0	274.5	0.49	44.85
59.0-60.0	30.1	2.8	277.4	0.46	45.31
60.0-61.0	28.2	2.7	280.1	0.44	45.75
61.0-62.0	26.1	2.5	282.6	0.41	46.16
62.0-63.0	23.9	2.3	284.9	0.38	46.54
63.0-64.0	22.0	2.2	287.1	0.35	46.89
64.0-65.0	20.4	2.0	289.1	0.33	47.22
65.0-66.0	18.9	1.9	291.0	0.31	47.53
66.0-67.0	17.5	1.8	292.7	0.29	47.82
67.0-68.0	16.0	1.6	294.3	0.27	48.08
68.0-69.0	14.5	1.5	295.8	0.24	48.33
69.0-70.0	12.8	1.3	297.1	0.21	48.54
70.0-71.0	11.3	1.2	298.3	0.19	48.73
71.0-72.0	9.9	1.0	299.3	0.17	48.90

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: 8.598m
Humidity: 65
Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	8.6	0.9	300.2	0.15	49.05
73.0-74.0	7.6	0.8	301.0	0.13	49.18
74.0-75.0	6.7	0.7	301.7	0.12	49.29
75.0-76.0	6.0	0.6	302.4	0.10	49.40
76.0-77.0	5.4	0.6	303.0	0.09	49.49
77.0-78.0	4.8	0.5	303.5	0.08	49.58
78.0-79.0	4.2	0.5	303.9	0.07	49.65
79.0-80.0	3.7	0.4	304.3	0.06	49.72
80.0-81.0	3.1	0.3	304.7	0.06	49.77
81.0-82.0	2.7	0.3	305.0	0.05	49.82
82.0-83.0	2.2	0.2	305.2	0.04	49.86
83.0-84.0	1.8	0.2	305.4	0.03	49.89
84.0-85.0	1.5	0.2	305.6	0.03	49.92
85.0-86.0	1.1	0.1	305.7	0.02	49.94
86.0-87.0	1.0	0.1	305.8	0.02	49.95
87.0-88.0	0.9	0.1	305.9	0.02	49.97
88.0-89.0	0.8	0.1	306.0	0.02	49.99
89.0-90.0	0.8	0.1	306.1	0.01	50.00
90.0-91.0	0.8	0.1	306.2	0.01	50.01
91.0-92.0	0.8	0.1	306.3	0.02	50.03
92.0-93.0	0.9	0.1	306.3	0.02	50.05
93.0-94.0	1.0	0.1	306.5	0.02	50.06
94.0-95.0	1.1	0.1	306.6	0.02	50.08
95.0-96.0	1.5	0.2	306.7	0.03	50.11
96.0-97.0	1.8	0.2	306.9	0.03	50.14
97.0-98.0	2.2	0.2	307.2	0.04	50.18
98.0-99.0	2.7	0.3	307.5	0.05	50.23
99.0-100.0	3.1	0.3	307.8	0.06	50.28
100.0-101.0	3.7	0.4	308.2	0.06	50.35
101.0-102.0	4.2	0.5	308.7	0.07	50.42
102.0-103.0	4.8	0.5	309.2	0.08	50.51
103.0-104.0	5.4	0.6	309.8	0.09	50.60
104.0-105.0	6.0	0.6	310.4	0.10	50.71
105.0-106.0	6.7	0.7	311.1	0.12	50.82
106.0-107.0	7.6	0.8	311.9	0.13	50.95
107.0-108.0	8.6	0.9	312.8	0.15	51.10

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: 8.598m
 Humidity: 65
 Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	9.9	1.0	313.8	0.17	51.27
109.0-110.0	11.3	1.2	315.0	0.19	51.46
110.0-111.0	12.8	1.3	316.3	0.21	51.67
111.0-112.0	14.5	1.5	317.8	0.24	51.92
112.0-113.0	16.0	1.6	319.4	0.27	52.18
113.0-114.0	17.5	1.8	321.2	0.29	52.47
114.0-115.0	18.9	1.9	323.1	0.31	52.78
115.0-116.0	20.4	2.0	325.1	0.33	53.11
116.0-117.0	22.0	2.2	327.2	0.35	53.46
117.0-118.0	23.9	2.3	329.6	0.38	53.84
118.0-119.0	26.1	2.5	332.1	0.41	54.25
119.0-120.0	28.2	2.7	334.8	0.44	54.69
120.0-121.0	30.1	2.8	337.6	0.46	55.15
121.0-122.0	32.0	3.0	340.6	0.49	55.64
122.0-123.0	34.0	3.1	343.7	0.51	56.15
123.0-124.0	36.0	3.3	347.0	0.54	56.69
124.0-125.0	38.0	3.4	350.5	0.56	57.25
125.0-126.0	40.1	3.6	354.1	0.58	57.84
126.0-127.0	42.4	3.7	357.8	0.61	58.45
127.0-128.0	44.8	3.9	361.7	0.64	59.08
128.0-129.0	47.2	4.1	365.7	0.66	59.75
129.0-130.0	49.8	4.2	369.9	0.69	60.43
130.0-131.0	52.3	4.4	374.3	0.71	61.15
131.0-132.0	54.8	4.5	378.8	0.74	61.88
132.0-133.0	57.4	4.6	383.4	0.76	62.64
133.0-134.0	60.6	4.8	388.3	0.79	63.43
134.0-135.0	64.7	5.1	393.3	0.83	64.25
135.0-136.0	68.9	5.3	398.6	0.87	65.12
136.0-137.0	72.9	5.5	404.1	0.90	66.02
137.0-138.0	76.8	5.7	409.8	0.93	66.95
138.0-139.0	80.5	5.9	415.7	0.96	67.90
139.0-140.0	83.9	6.0	421.6	0.98	68.88
140.0-141.0	87.6	6.1	427.8	1.00	69.88
141.0-142.0	91.6	6.3	434.0	1.02	70.90
142.0-143.0	95.9	6.4	440.4	1.05	71.94
143.0-144.0	99.9	6.5	446.9	1.06	73.01

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: 8.598m
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	103.1	6.6	453.5	1.07	74.08
145.0-146.0	106.3	6.6	460.1	1.08	75.16
146.0-147.0	109.9	6.7	466.8	1.09	76.25
147.0-148.0	113.5	6.7	473.4	1.09	77.34
148.0-149.0	117.1	6.7	480.1	1.10	78.44
149.0-150.0	120.5	6.7	486.9	1.10	79.53
150.0-151.0	123.8	6.7	493.5	1.09	80.63
151.0-152.0	126.8	6.6	500.2	1.08	81.71
152.0-153.0	129.6	6.6	506.7	1.07	82.78
153.0-154.0	132.6	6.5	513.2	1.06	83.84
154.0-155.0	135.4	6.4	519.6	1.04	84.89
155.0-156.0	138.4	6.3	525.9	1.03	85.91
156.0-157.0	141.5	6.2	532.1	1.01	86.92
157.0-158.0	145.3	6.1	538.2	1.00	87.92
158.0-159.0	149.4	6.0	544.2	0.98	88.90
159.0-160.0	152.9	5.9	550.1	0.96	89.86
160.0-161.0	155.5	5.7	555.8	0.93	90.79
161.0-162.0	157.5	5.5	561.2	0.90	91.69
162.0-163.0	159.2	5.2	566.5	0.86	92.54
163.0-164.0	160.8	5.0	571.5	0.82	93.36
164.0-165.0	162.3	4.8	576.3	0.78	94.14
165.0-166.0	163.6	4.5	580.8	0.73	94.87
166.0-167.0	164.8	4.2	585.0	0.69	95.56
167.0-168.0	165.9	3.9	588.9	0.64	96.20
168.0-169.0	167.0	3.7	592.6	0.60	96.80
169.0-170.0	167.8	3.4	595.9	0.55	97.35
170.0-171.0	168.5	3.1	599.0	0.50	97.85
171.0-172.0	169.3	2.7	601.7	0.45	98.30
172.0-173.0	169.9	2.4	604.1	0.40	98.69
173.0-174.0	170.4	2.1	606.3	0.35	99.04
174.0-175.0	170.8	1.8	608.1	0.29	99.33
175.0-176.0	171.0	1.5	609.5	0.24	99.57
176.0-177.0	171.2	1.1	610.7	0.19	99.76
177.0-178.0	171.4	0.8	611.5	0.13	99.89
178.0-179.0	171.4	0.5	612.0	0.08	99.97
179.0-180.0	171.4	0.2	612.1	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: 8.598m
Humidity: 65
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	171.5	171.5	171.5	171.5	171.5					
G1.0	171.9	170.6	171.1	171.8	171.9					
G2.0	172.2	170.7	170.6	172.5	172.2					
G3.0	172.5	169.9	170.1	172.4	172.5					
G4.0	172.7	169.2	169.5	173.3	172.7					
G5.0	172.9	168.3	168.9	173.5	172.9					
G6.0	172.9	167.9	168.2	173.6	172.9					
G7.0	172.9	166.8	167.4	173.5	172.9					
G8.0	172.7	165.3	166.5	174.0	172.7					
G9.0	172.4	164.2	165.6	173.4	172.4					
G10.0	172.1	162.6	164.6	173.4	172.1					
G11.0	171.6	161.7	163.4	173.2	171.6					
G12.0	171.0	159.7	162.0	173.0	171.0					
G13.0	170.4	158.6	160.6	172.1	170.4					
G14.0	169.6	156.6	159.2	171.5	169.6					
G15.0	168.7	155.0	157.4	171.2	168.7					
G16.0	167.7	152.6	155.6	170.3	167.7					
G17.0	166.5	150.4	153.8	169.2	166.5					
G18.0	165.3	148.3	151.7	168.0	165.3					
G19.0	164.0	145.6	149.4	167.3	164.0					
G20.0	162.4	142.1	147.2	165.6	162.4					
G21.0	160.9	135.2	144.9	164.5	160.9					
G22.0	159.4	124.7	142.6	163.3	159.4					
G23.0	157.6	113.5	140.1	161.4	157.6					
G24.0	156.0	105.9	137.9	159.6	156.0					
G25.0	154.2	99.0	135.7	158.4	154.2					
G26.0	152.5	93.4	133.4	156.7	152.5					
G27.0	150.8	87.9	130.8	155.2	150.8					
G28.0	148.8	82.4	128.1	153.3	148.8					
G29.0	146.8	78.2	124.9	152.2	146.8					
G30.0	144.7	73.6	120.2	150.2	144.7					
G31.0	143.9	69.8	113.5	148.4	143.9					
G32.0	140.0	67.3	107.4	146.4	140.0					
G33.0	134.6	65.3	102.0	144.9	134.6					
G34.0	129.1	63.2	97.5	142.5	129.1					
G35.0	122.9	61.0	94.0	140.4	122.9					
G36.0	118.7	59.0	90.7	138.4	118.7					

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: 8.598m
 Humidity: 65
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	114.1	56.1	86.2	136.3	114.1					
G38.0	108.0	51.7	81.4	133.7	108.0					
G39.0	102.6	47.6	76.7	131.1	102.6					
G40.0	97.3	43.6	72.7	129.0	97.3					
G41.0	94.0	39.0	69.4	126.4	94.0					
G42.0	90.6	34.7	66.1	123.8	90.6					
G43.0	86.9	30.0	62.0	120.1	86.9					
G44.0	82.8	25.7	58.1	117.5	82.8					
G45.0	77.8	19.8	54.8	114.9	77.8					
G46.0	73.1	13.3	51.6	112.2	73.1					
G47.0	69.3	7.5	48.4	109.6	69.3					
G48.0	66.8	5.6	45.2	106.6	66.8					
G49.0	63.7	4.6	42.0	103.9	63.7					
G50.0	60.7	3.7	38.5	101.2	60.7					
G51.0	56.6	3.0	36.0	98.4	56.6					
G52.0	52.4	2.4	33.7	95.3	52.4					
G53.0	49.0	1.9	30.9	92.6	49.0					
G54.0	45.9	1.5	28.0	89.5	45.9					
G55.0	43.4	1.2	24.8	86.6	43.4					
G56.0	40.9	1.1	22.2	83.7	40.9					
G57.0	37.8	1.1	20.4	80.9	37.8					
G58.0	34.4	1.0	18.6	77.7	34.4					
G59.0	31.9	0.8	16.5	74.8	31.9					
G60.0	29.7	0.8	14.3	71.7	29.7					
G61.0	27.0	0.7	12.4	68.8	27.0					
G62.0	24.1	0.7	9.7	65.6	24.1					
G63.0	21.2	0.6	6.8	62.7	21.2					
G64.0	18.5	0.6	5.4	59.8	18.5					
G65.0	16.8	0.6	4.7	56.5	16.8					
G66.0	14.8	0.6	4.1	53.5	14.8					
G67.0	12.6	0.6	3.7	50.0	12.6					
G68.0	10.3	0.6	3.3	47.0	10.3					
G69.0	7.5	0.5	2.9	43.5	7.5					
G70.0	5.4	0.5	2.6	39.2	5.4					
G71.0	4.5	0.5	2.4	34.9	4.5					
G72.0	3.8	0.5	2.2	30.4	3.8					
G73.0	3.3	0.5	2.1	26.4	3.3					

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: 8.598m
 Humidity: 65
 Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	2.8	0.5	1.9	23.3	2.8					
G75.0	2.5	0.5	1.8	20.6	2.5					
G76.0	2.1	0.5	1.6	18.5	2.1					
G77.0	1.9	0.5	1.5	16.5	1.9					
G78.0	1.6	0.5	1.4	14.6	1.6					
G79.0	1.4	0.5	1.2	12.7	1.4					
G80.0	1.3	0.5	1.1	10.7	1.3					
G81.0	1.2	0.5	1.0	8.9	1.2					
G82.0	1.1	0.5	0.9	7.4	1.1					
G83.0	1.0	0.5	0.8	5.8	1.0					
G84.0	0.9	0.5	0.7	4.5	0.9					
G85.0	0.8	0.5	0.6	3.2	0.8					
G86.0	0.7	0.5	0.6	2.3	0.7					
G87.0	0.7	0.5	0.5	2.1	0.7					
G88.0	0.6	0.5	0.5	2.0	0.6					
G89.0	0.5	0.5	0.4	1.9	0.5					
G90.0	0.4	0.4	0.4	1.8	0.4					
G91.0	0.5	0.5	0.4	1.9	0.5					
G92.0	0.6	0.5	0.5	2.0	0.6					
G93.0	0.7	0.5	0.5	2.1	0.7					
G94.0	0.7	0.5	0.6	2.3	0.7					
G95.0	0.8	0.5	0.6	3.2	0.8					
G96.0	0.9	0.5	0.7	4.5	0.9					
G97.0	1.0	0.5	0.8	5.8	1.0					
G98.0	1.1	0.5	0.9	7.4	1.1					
G99.0	1.2	0.5	1.0	8.9	1.2					
G100.0	1.3	0.5	1.1	10.7	1.3					
G101.0	1.4	0.5	1.2	12.7	1.4					
G102.0	1.6	0.5	1.4	14.6	1.6					
G103.0	1.9	0.5	1.5	16.5	1.9					
G104.0	2.1	0.5	1.6	18.5	2.1					
G105.0	2.5	0.5	1.8	20.6	2.5					
G106.0	2.8	0.5	1.9	23.3	2.8					
G107.0	3.3	0.5	2.1	26.4	3.3					
G108.0	3.8	0.5	2.2	30.4	3.8					
G109.0	4.5	0.5	2.4	34.9	4.5					
G110.0	5.4	0.5	2.6	39.2	5.4					

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: 8.598m
 Humidity: 65
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	7.5	0.5	2.9	43.5	7.5					
G112.0	10.3	0.6	3.3	47.0	10.3					
G113.0	12.6	0.6	3.7	50.0	12.6					
G114.0	14.8	0.6	4.1	53.5	14.8					
G115.0	16.8	0.6	4.7	56.5	16.8					
G116.0	18.5	0.6	5.4	59.8	18.5					
G117.0	21.2	0.6	6.8	62.7	21.2					
G118.0	24.1	0.7	9.7	65.6	24.1					
G119.0	27.0	0.7	12.4	68.8	27.0					
G120.0	29.7	0.8	14.3	71.7	29.7					
G121.0	31.9	0.8	16.5	74.8	31.9					
G122.0	34.4	1.0	18.6	77.7	34.4					
G123.0	37.8	1.1	20.4	80.9	37.8					
G124.0	40.9	1.1	22.2	83.7	40.9					
G125.0	43.4	1.2	24.8	86.6	43.4					
G126.0	45.9	1.5	28.0	89.5	45.9					
G127.0	49.0	1.9	30.9	92.6	49.0					
G128.0	52.4	2.4	33.7	95.3	52.4					
G129.0	56.6	3.0	36.0	98.4	56.6					
G130.0	60.7	3.7	38.5	101.2	60.7					
G131.0	63.7	4.6	42.0	103.9	63.7					
G132.0	66.8	5.6	45.2	106.6	66.8					
G133.0	69.3	7.5	48.4	109.6	69.3					
G134.0	73.1	13.3	51.6	112.2	73.1					
G135.0	77.8	19.8	54.8	114.9	77.8					
G136.0	82.8	25.7	58.1	117.5	82.8					
G137.0	86.9	30.0	62.0	120.1	86.9					
G138.0	90.6	34.7	66.1	123.8	90.6					
G139.0	94.0	39.0	69.4	126.4	94.0					
G140.0	97.3	43.6	72.7	129.0	97.3					
G141.0	102.6	47.6	76.7	131.1	102.6					
G142.0	108.0	51.7	81.4	133.7	108.0					
G143.0	114.1	56.1	86.2	136.3	114.1					
G144.0	118.7	59.0	90.7	138.4	118.7					
G145.0	122.9	61.0	94.0	140.4	122.9					
G146.0	129.1	63.2	97.5	142.5	129.1					
G147.0	134.6	65.3	102.0	144.9	134.6					

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: 8.598m
 Humidity: 65
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	140.0	67.3	107.4	146.4	140.0					
G149.0	143.9	69.8	113.5	148.4	143.9					
G150.0	144.7	73.6	120.2	150.2	144.7					
G151.0	146.8	78.2	124.9	152.2	146.8					
G152.0	148.8	82.4	128.1	153.3	148.8					
G153.0	150.8	87.9	130.8	155.2	150.8					
G154.0	152.5	93.4	133.4	156.7	152.5					
G155.0	154.2	99.0	135.7	158.4	154.2					
G156.0	156.0	105.9	137.9	159.6	156.0					
G157.0	157.6	113.5	140.1	161.4	157.6					
G158.0	159.4	124.7	142.6	163.3	159.4					
G159.0	160.9	135.2	144.9	164.5	160.9					
G160.0	162.4	142.1	147.2	165.6	162.4					
G161.0	164.0	145.6	149.4	167.3	164.0					
G162.0	165.3	148.3	151.7	168.0	165.3					
G163.0	166.5	150.4	153.8	169.2	166.5					
G164.0	167.7	152.6	155.6	170.3	167.7					
G165.0	168.7	155.0	157.4	171.2	168.7					
G166.0	169.6	156.6	159.2	171.5	169.6					
G167.0	170.4	158.6	160.6	172.1	170.4					
G168.0	171.0	159.7	162.0	173.0	171.0					
G169.0	171.6	161.7	163.4	173.2	171.6					
G170.0	172.1	162.6	164.6	173.4	172.1					
G171.0	172.4	164.2	165.6	173.4	172.4					
G172.0	172.7	165.3	166.5	174.0	172.7					
G173.0	172.9	166.8	167.4	173.5	172.9					
G174.0	172.9	167.9	168.2	173.6	172.9					
G175.0	172.9	168.3	168.9	173.5	172.9					
G176.0	172.7	169.2	169.5	173.3	172.7					
G177.0	172.5	169.9	170.1	172.4	172.5					
G178.0	172.2	170.7	170.6	172.5	172.2					
G179.0	171.9	170.6	171.1	171.8	171.9					
G180.0	171.5	171.5	171.5	171.5	171.5					

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: 8.598m
 Humidity: 65
 Inspector: