

Report No.: TH-1308A

Test Time: 2020/6/9 14:05

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 50W-4000K

Current: 0.224 A

Power Factor: 0.962

Voltage: 230.0V

Power: 49.55 W

Photometric Results

CIE Class: Direct

Measurement Flux: 8440.65 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H87.3

Vertical Diffuse Angle(50%): V86.3

Luminaire Efficacy Rating (LER): 170.35

Max. Intensity: 3767.14 cd

S/MH(C0/C180): 1.02

Total Rated Lamp Lumens: 8440.65 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 3767.14 cd

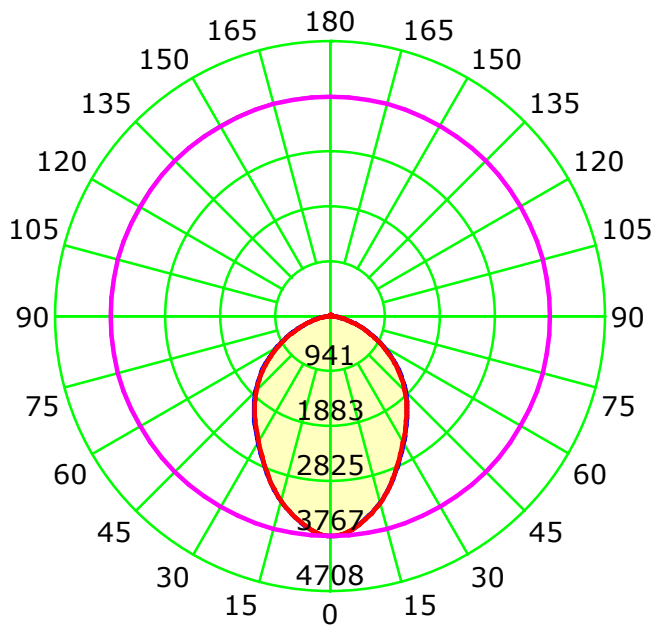
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.01

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 86.8°

— C0-C180 — C90-C270 — G0

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

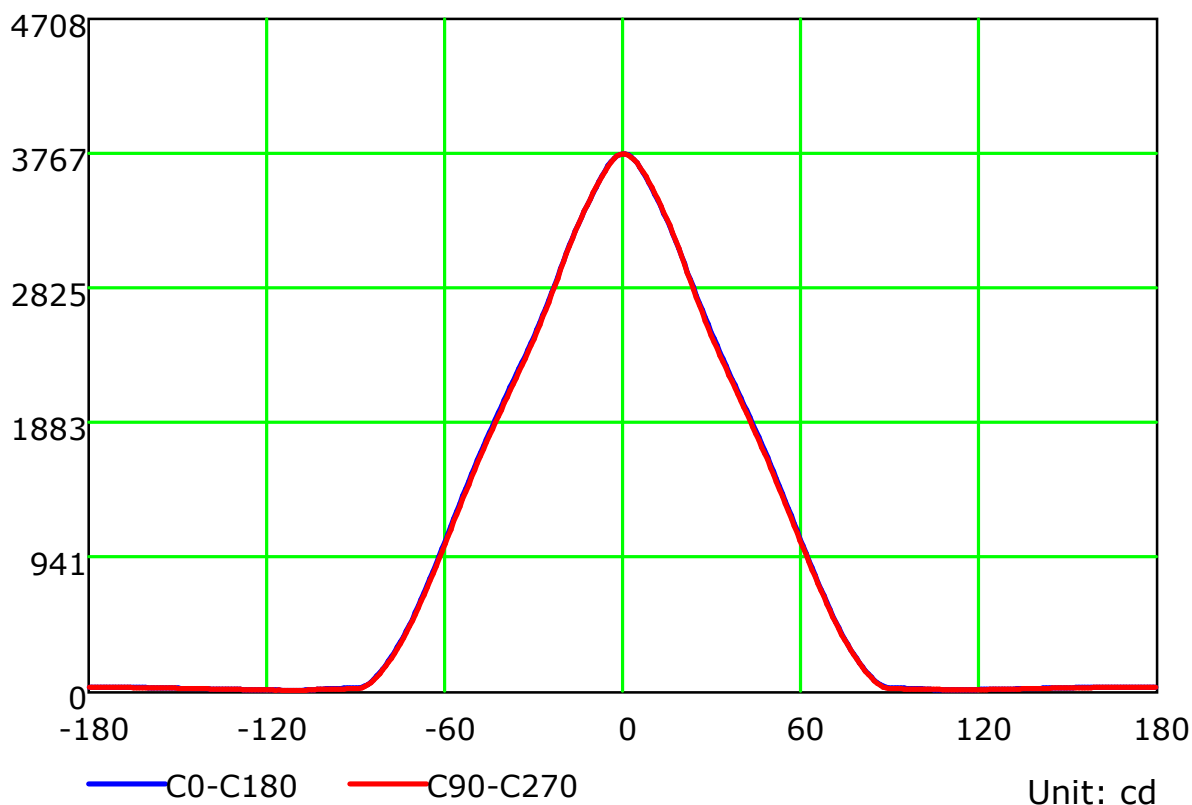
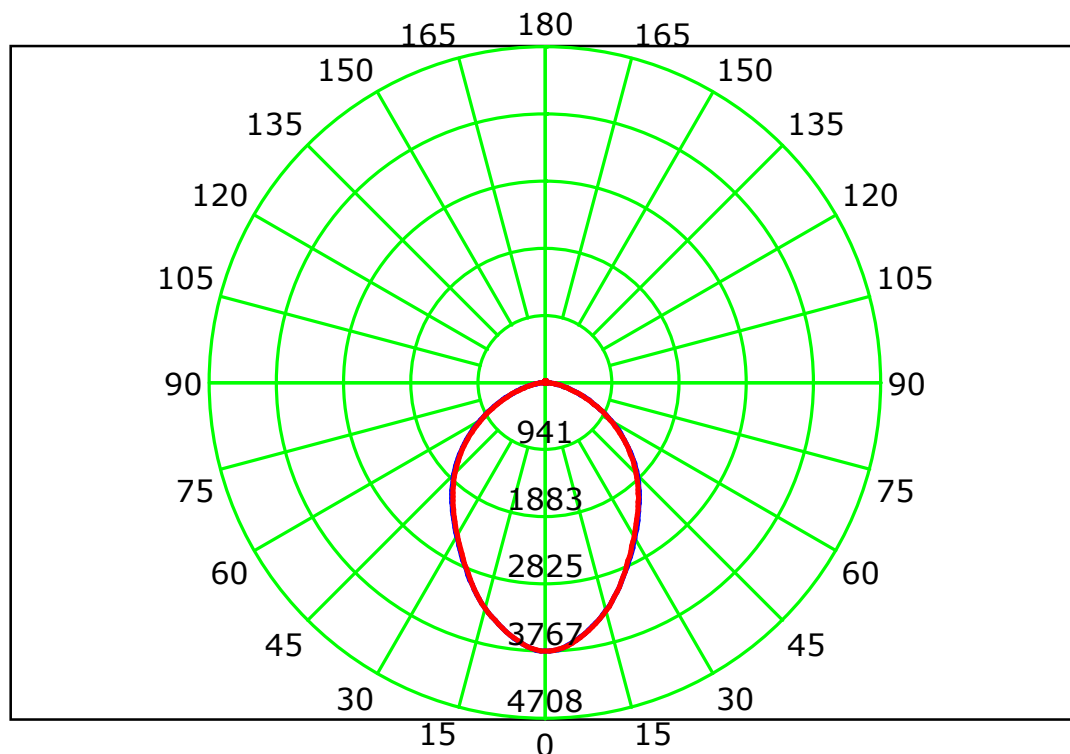
Test Device: GPM-1800B

Distance: 8.598 m

Humidity: 65

Inspector:

Luminous Intensity Distribution Curve



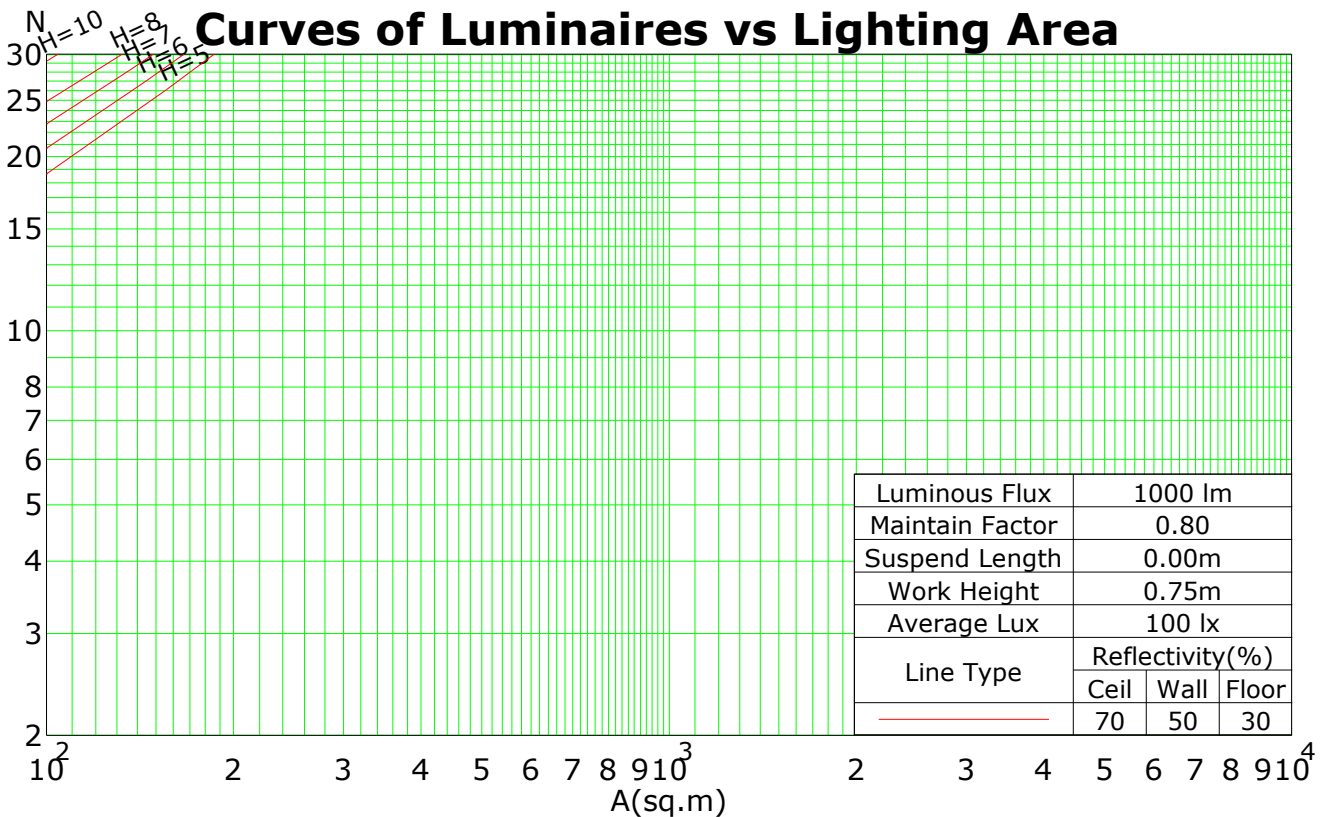
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	109	105	101	98	107	103	99	96	98	95	93	94	92	90	90	88	87	85
2	100	93	86	81	98	91	85	80	87	82	78	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	68	77	71	66	74	69	65	72	67	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	56	64	60	55	53
5	78	66	57	51	76	65	57	51	62	55	50	60	54	49	58	53	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	53	48	43	41
7	67	54	46	40	66	53	46	40	52	45	40	50	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	46	40	35	45	39	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	27

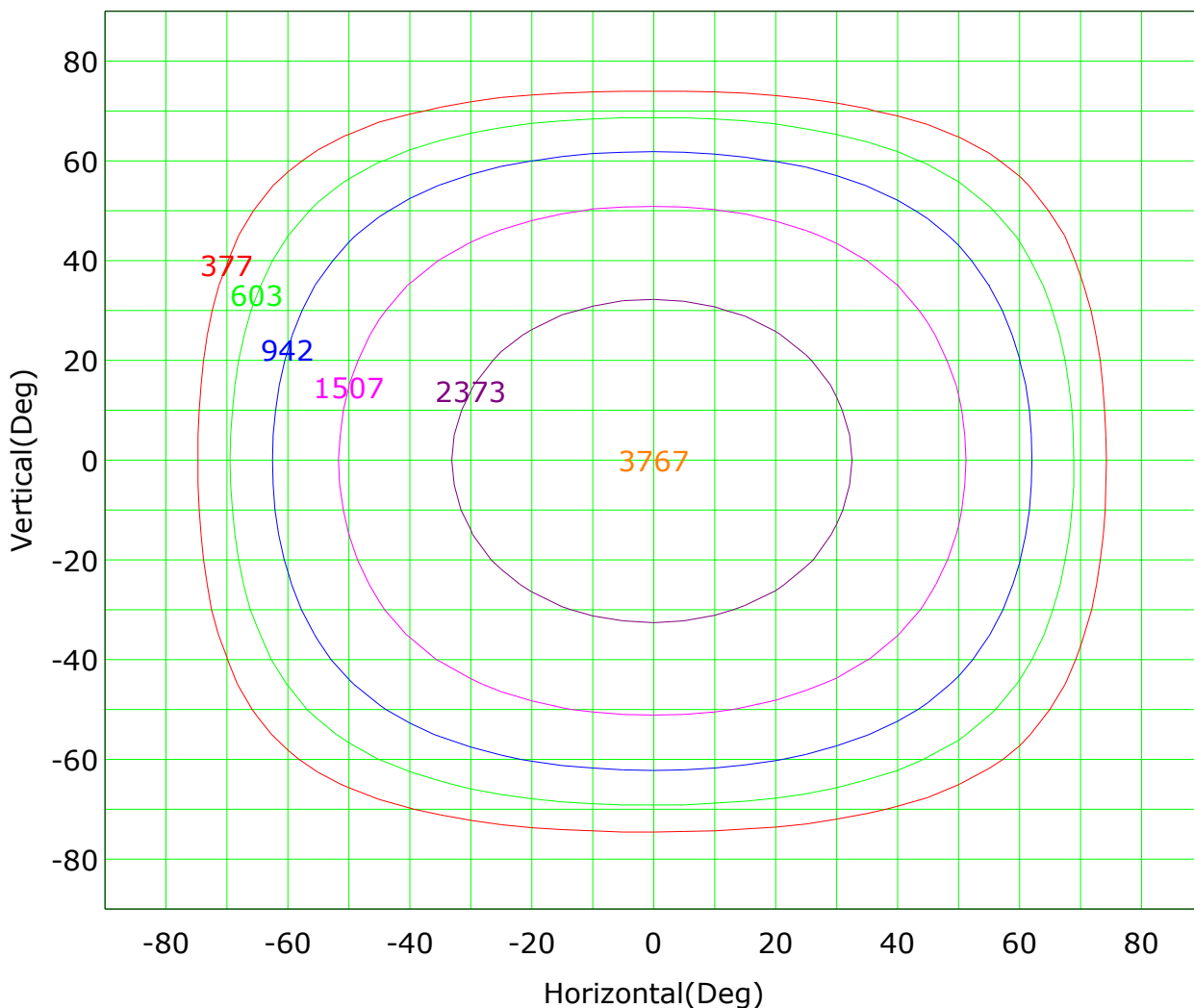
Spacing Criteria (0-180): 1.02
 Spacing Criteria (90-270): 1.01
 Spacing Criteria (Diagonal): 1.17



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: 8.598 m
 Humidity: 65
 Inspector:

Isocandela (rectangle)



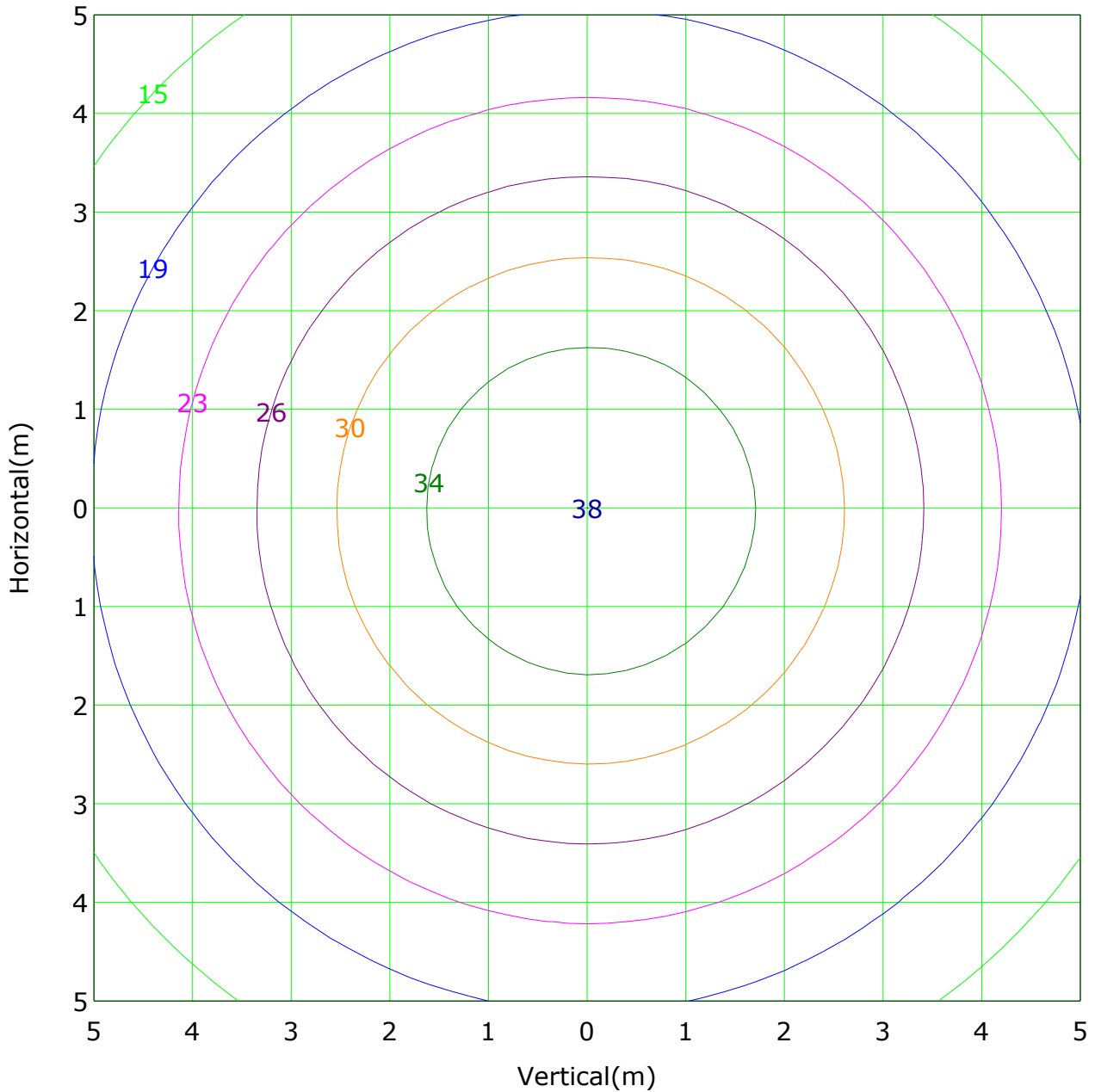
I_{max} (100%): 3767 cd

- | | |
|-------------------|-------------------|
| — (10%): 377 cd | — (16%): 603 cd |
| — (25%): 942 cd | — (40%): 1507 cd |
| — (63%): 2373 cd | — (100%): 3767 cd |

C Plane (°):0.0-360.0: 90.0
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 37.7 lx	
— (30%): 11.3 lx	— (40%): 15.1 lx	— (60%): 22.6 lx	— (80%): 30.1 lx
— (50%): 18.8 lx	— (70%): 26.4 lx	— (100%): 37.7 lx	— (150%): 56.5 lx
— (90%): 33.9 lx			
— (120%): 45.2 lx			

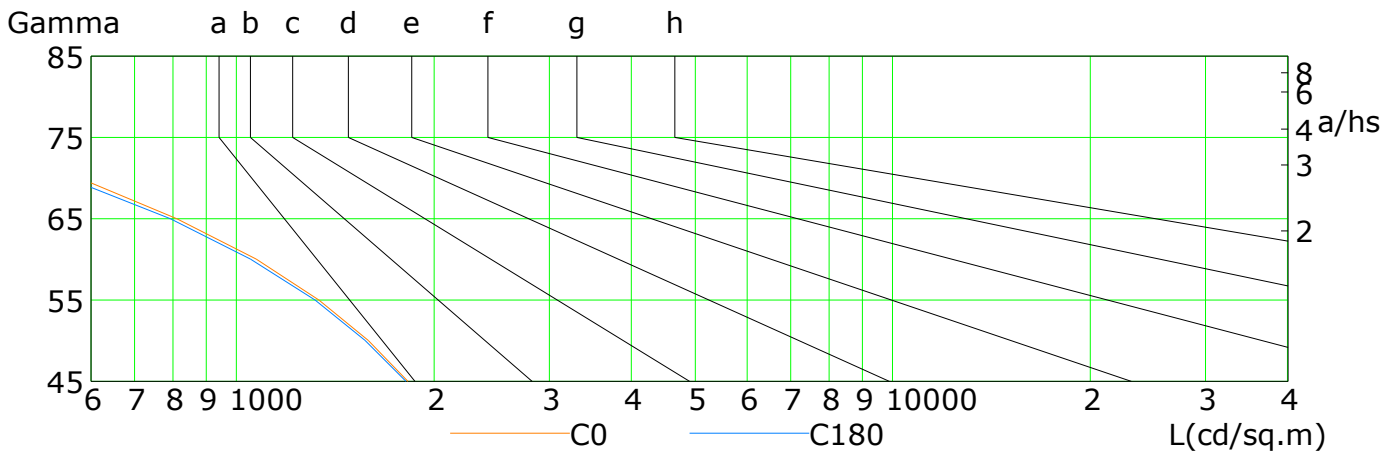
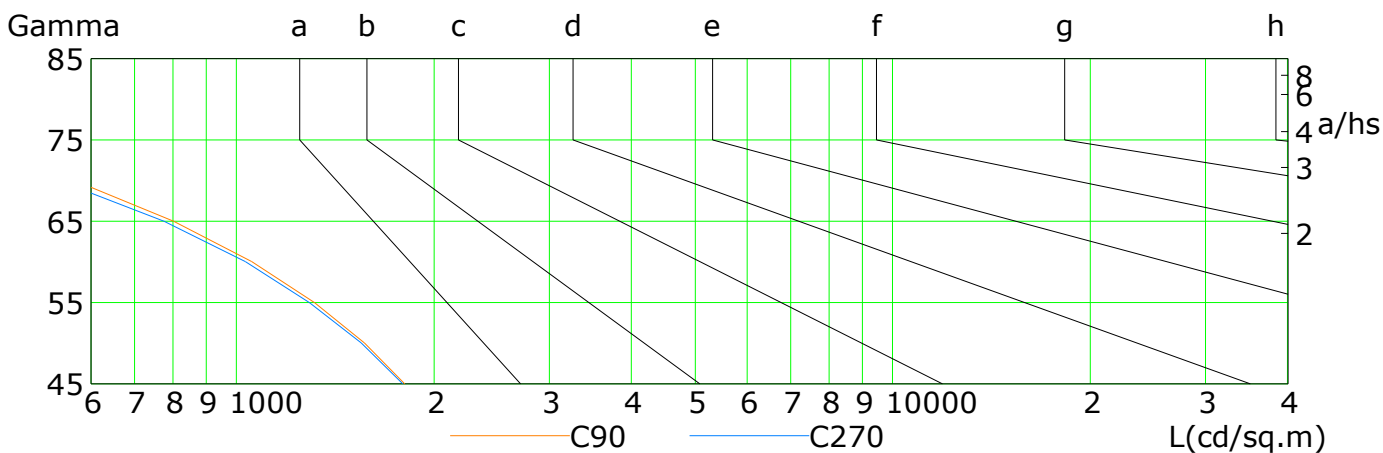
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Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

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

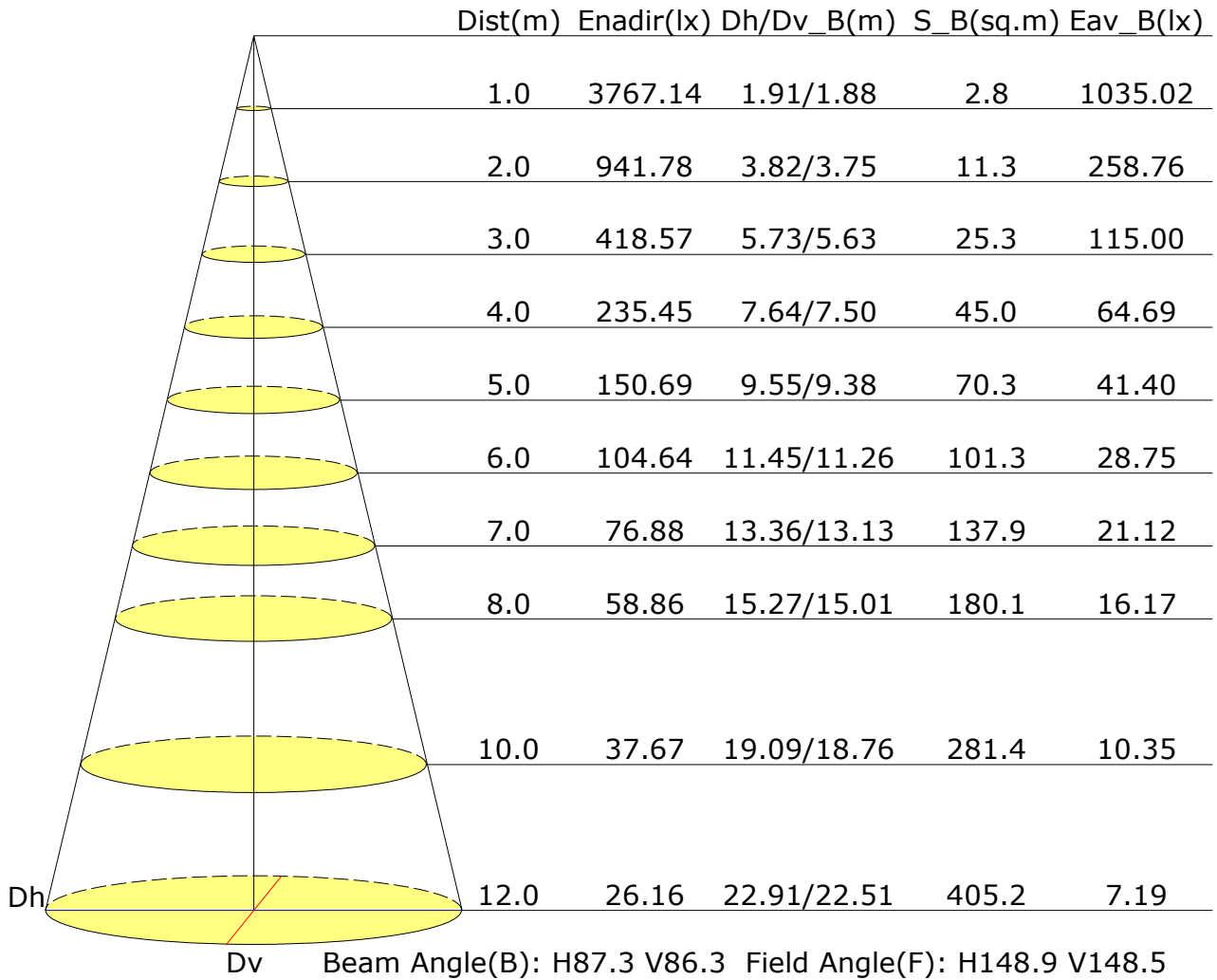


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1828	1589	1335	1071	812	575	366	200	80
C90	1807	1568	1316	1056	803	566	361	198	76
C180	1815	1572	1317	1050	794	554	346	184	66
C270	1793	1550	1292	1033	776	537	333	177	60

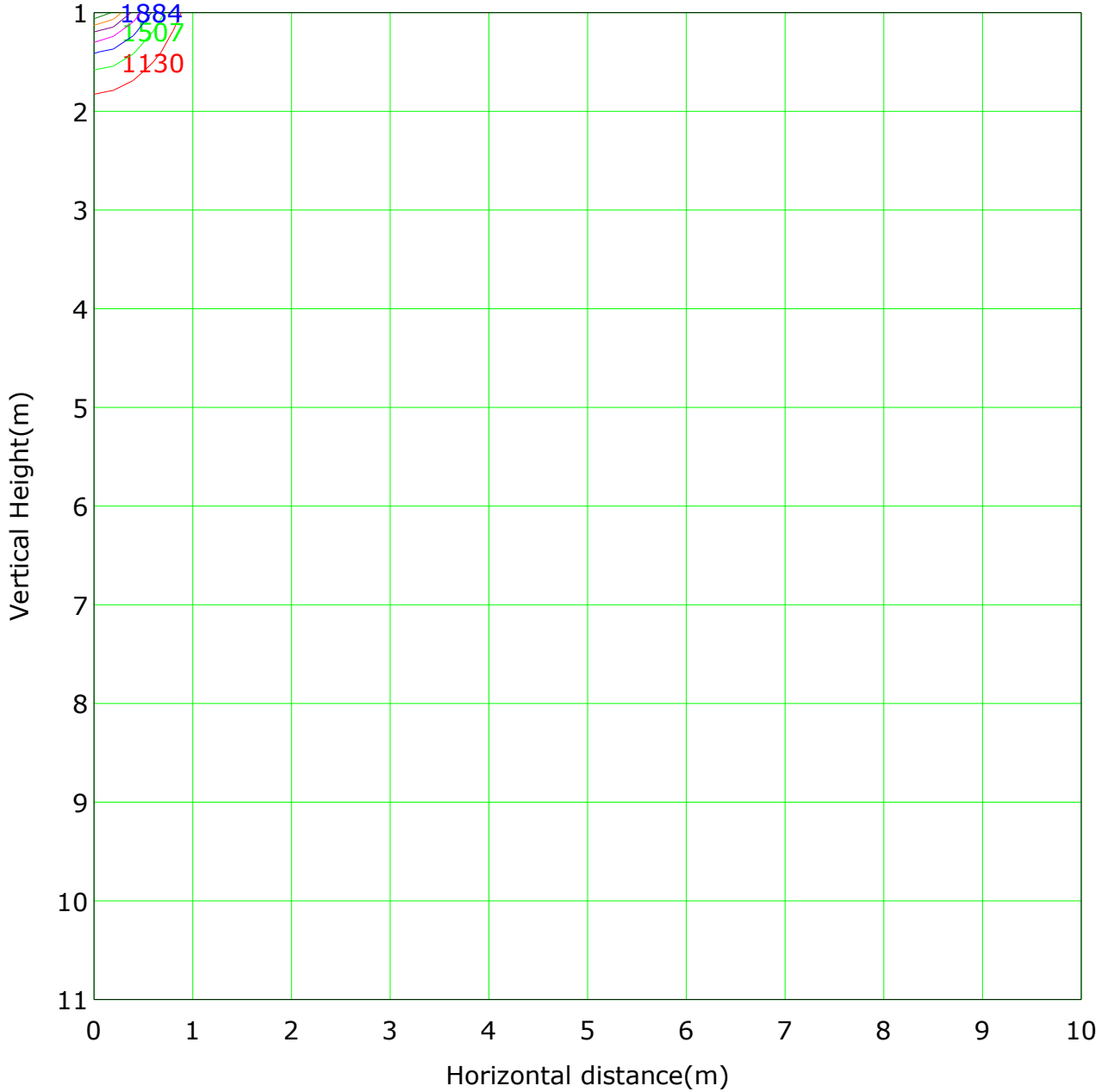
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Test Type: TYPE C
Temperature: 26
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

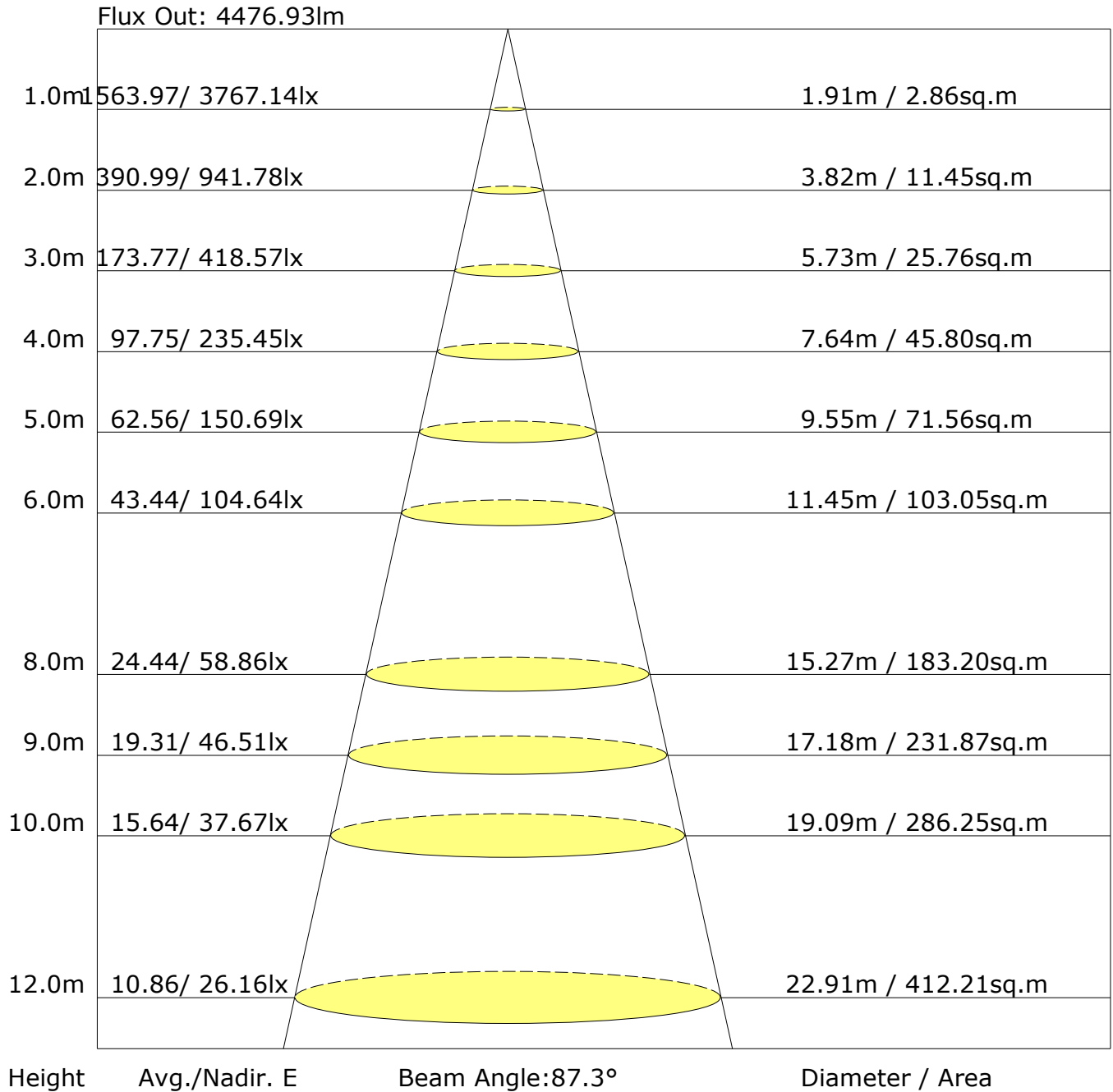


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 3767.1 lx
— (30%):1130.1 lx	— (40%):1506.9 lx	
— (50%):1883.6 lx	— (60%):2260.3 lx	
— (70%):2637.0 lx	— (80%):3013.7 lx	
— (90%):3390.4 lx	— (100%):3767.1 lx	
— (120%):4520.6 lx	— (150%):5650.7 lx	

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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: 8.598 m
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: 8.598 m
 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 7888lm ($8\log(F/F_0) = 7.2$).

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: 8.598 m
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	3765.4	3.6	3.6	0.05	0.05
1.0-2.0	3759.1	10.8	14.4	0.14	0.18
2.0-3.0	3746.6	17.9	32.3	0.23	0.41
3.0-4.0	3727.8	25.0	57.3	0.32	0.73
4.0-5.0	3703.6	31.9	89.1	0.40	1.13
5.0-6.0	3674.7	38.6	127.8	0.49	1.62
6.0-7.0	3640.8	45.2	173.0	0.57	2.19
7.0-8.0	3605.0	51.6	224.6	0.65	2.85
8.0-9.0	3568.7	57.8	282.4	0.73	3.58
9.0-10.0	3530.0	63.9	346.3	0.81	4.39
10.0-11.0	3489.0	69.7	416.0	0.88	5.27
11.0-12.0	3446.7	75.4	491.4	0.96	6.23
12.0-13.0	3403.7	80.8	572.2	1.02	7.25
13.0-14.0	3359.4	86.0	658.2	1.09	8.34
14.0-15.0	3313.5	91.0	749.1	1.15	9.50
15.0-16.0	3266.8	95.7	844.9	1.21	10.71
16.0-17.0	3218.5	100.2	945.1	1.27	11.98
17.0-18.0	3166.4	104.4	1049.5	1.32	13.30
18.0-19.0	3112.3	108.3	1157.8	1.37	14.68
19.0-20.0	3058.2	111.9	1269.8	1.42	16.10
20.0-21.0	3002.8	115.3	1385.1	1.46	17.56
21.0-22.0	2945.2	118.4	1503.5	1.50	19.06
22.0-23.0	2888.0	121.2	1624.7	1.54	20.60
23.0-24.0	2832.5	123.9	1748.5	1.57	22.17
24.0-25.0	2777.1	126.3	1874.8	1.60	23.77
25.0-26.0	2722.4	128.5	2003.3	1.63	25.40
26.0-27.0	2670.4	130.7	2134.0	1.66	27.05
27.0-28.0	2619.1	132.6	2266.6	1.68	28.73
28.0-29.0	2567.8	134.4	2401.0	1.70	30.44
29.0-30.0	2517.7	136.0	2536.9	1.72	32.16
30.0-31.0	2469.4	137.4	2674.4	1.74	33.90
31.0-32.0	2421.7	138.8	2813.1	1.76	35.66
32.0-33.0	2374.0	139.9	2953.0	1.77	37.43
33.0-34.0	2328.3	140.9	3093.9	1.79	39.22
34.0-35.0	2283.7	141.8	3235.8	1.80	41.02
35.0-36.0	2239.2	142.6	3378.4	1.81	42.83

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: 8.598 m
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	2193.8	143.1	3521.5	1.81	44.64
37.0-38.0	2148.9	143.5	3664.9	1.82	46.46
38.0-39.0	2105.3	143.7	3808.6	1.82	48.28
39.0-40.0	2061.0	143.8	3952.4	1.82	50.10
40.0-41.0	2016.2	143.6	4096.0	1.82	51.92
41.0-42.0	1971.9	143.3	4239.3	1.82	53.74
42.0-43.0	1925.9	142.7	4382.0	1.81	55.55
43.0-44.0	1879.8	141.9	4523.9	1.80	57.35
44.0-45.0	1834.1	141.0	4664.8	1.79	59.14
45.0-46.0	1786.9	139.8	4804.6	1.77	60.91
46.0-47.0	1739.8	138.4	4943.0	1.75	62.66
47.0-48.0	1693.1	136.9	5079.9	1.74	64.40
48.0-49.0	1644.4	135.1	5214.9	1.71	66.11
49.0-50.0	1594.3	132.9	5347.9	1.69	67.79
50.0-51.0	1545.2	130.7	5478.6	1.66	69.45
51.0-52.0	1495.6	128.4	5607.0	1.63	71.08
52.0-53.0	1443.7	125.6	5732.6	1.59	72.67
53.0-54.0	1392.0	122.7	5855.3	1.56	74.23
54.0-55.0	1341.1	119.7	5975.0	1.52	75.74
55.0-56.0	1288.0	116.4	6091.4	1.48	77.22
56.0-57.0	1235.5	113.0	6204.4	1.43	78.65
57.0-58.0	1184.0	109.5	6313.9	1.39	80.04
58.0-59.0	1131.8	105.8	6419.7	1.34	81.38
59.0-60.0	1079.2	102.0	6521.7	1.29	82.67
60.0-61.0	1026.8	98.0	6619.7	1.24	83.92
61.0-62.0	975.4	94.0	6713.7	1.19	85.11
62.0-63.0	924.7	89.9	6803.6	1.14	86.25
63.0-64.0	873.0	85.7	6889.3	1.09	87.33
64.0-65.0	821.2	81.3	6970.6	1.03	88.36
65.0-66.0	772.0	77.0	7047.6	0.98	89.34
66.0-67.0	723.0	72.7	7120.3	0.92	90.26
67.0-68.0	674.7	68.4	7188.7	0.87	91.13
68.0-69.0	628.0	64.1	7252.8	0.81	91.94
69.0-70.0	581.2	59.7	7312.5	0.76	92.70
70.0-71.0	535.7	55.4	7367.8	0.70	93.40
71.0-72.0	492.7	51.2	7419.1	0.65	94.05

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Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
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	451.0	47.2	7466.2	0.60	94.65
73.0-74.0	410.0	43.1	7509.4	0.55	95.19
74.0-75.0	370.8	39.2	7548.5	0.50	95.69
75.0-76.0	334.1	35.5	7584.0	0.45	96.14
76.0-77.0	299.8	32.0	7616.0	0.41	96.55
77.0-78.0	265.9	28.5	7644.4	0.36	96.91
78.0-79.0	234.1	25.2	7669.6	0.32	97.23
79.0-80.0	204.4	22.0	7691.6	0.28	97.51
80.0-81.0	176.2	19.1	7710.7	0.24	97.75
81.0-82.0	149.6	16.2	7726.9	0.21	97.95
82.0-83.0	124.5	13.5	7740.5	0.17	98.12
83.0-84.0	101.4	11.0	7751.5	0.14	98.26
84.0-85.0	80.2	8.8	7760.3	0.11	98.38
85.0-86.0	62.0	6.8	7767.0	0.09	98.46
86.0-87.0	46.9	5.1	7772.2	0.07	98.53
87.0-88.0	35.2	3.9	7776.0	0.05	98.58
88.0-89.0	27.7	3.0	7779.1	0.04	98.61
89.0-90.0	24.0	2.6	7781.7	0.03	98.65
90.0-91.0	22.8	2.5	7784.2	0.03	98.68
91.0-92.0	22.7	2.5	7786.7	0.03	98.71
92.0-93.0	22.3	2.4	7789.1	0.03	98.74
93.0-94.0	21.4	2.3	7791.5	0.03	98.77
94.0-95.0	20.2	2.2	7793.7	0.03	98.80
95.0-96.0	19.0	2.1	7795.7	0.03	98.83
96.0-97.0	18.2	2.0	7797.7	0.03	98.85
97.0-98.0	17.7	1.9	7799.6	0.02	98.87
98.0-99.0	17.4	1.9	7801.5	0.02	98.90
99.0-100.0	17.1	1.9	7803.4	0.02	98.92
100.0-101.0	16.6	1.8	7805.2	0.02	98.94
101.0-102.0	16.0	1.7	7806.9	0.02	98.97
102.0-103.0	15.5	1.7	7808.6	0.02	98.99
103.0-104.0	14.5	1.5	7810.1	0.02	99.01
104.0-105.0	13.4	1.4	7811.5	0.02	99.03
105.0-106.0	12.4	1.3	7812.8	0.02	99.04
106.0-107.0	11.7	1.2	7814.1	0.02	99.06
107.0-108.0	10.7	1.1	7815.2	0.01	99.07

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: 8.598 m
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	7816.2	0.01	99.08
109.0-110.0	9.4	1.0	7817.2	0.01	99.10
110.0-111.0	9.1	0.9	7818.1	0.01	99.11
111.0-112.0	9.1	0.9	7819.1	0.01	99.12
112.0-113.0	9.2	0.9	7820.0	0.01	99.13
113.0-114.0	9.4	0.9	7820.9	0.01	99.14
114.0-115.0	9.7	1.0	7821.9	0.01	99.16
115.0-116.0	10.0	1.0	7822.9	0.01	99.17
116.0-117.0	10.2	1.0	7823.9	0.01	99.18
117.0-118.0	10.4	1.0	7824.9	0.01	99.19
118.0-119.0	10.8	1.0	7826.0	0.01	99.21
119.0-120.0	11.1	1.1	7827.0	0.01	99.22
120.0-121.0	11.4	1.1	7828.1	0.01	99.24
121.0-122.0	11.9	1.1	7829.2	0.01	99.25
122.0-123.0	12.3	1.1	7830.3	0.01	99.26
123.0-124.0	12.5	1.1	7831.5	0.01	99.28
124.0-125.0	13.0	1.2	7832.7	0.01	99.29
125.0-126.0	13.6	1.2	7833.9	0.02	99.31
126.0-127.0	13.9	1.2	7835.1	0.02	99.32
127.0-128.0	14.2	1.2	7836.3	0.02	99.34
128.0-129.0	14.6	1.2	7837.6	0.02	99.36
129.0-130.0	15.0	1.3	7838.9	0.02	99.37
130.0-131.0	15.3	1.3	7840.1	0.02	99.39
131.0-132.0	15.7	1.3	7841.4	0.02	99.40
132.0-133.0	16.1	1.3	7842.7	0.02	99.42
133.0-134.0	16.6	1.3	7844.0	0.02	99.44
134.0-135.0	17.2	1.3	7845.4	0.02	99.45
135.0-136.0	17.6	1.4	7846.7	0.02	99.47
136.0-137.0	18.0	1.4	7848.1	0.02	99.49
137.0-138.0	18.5	1.4	7849.5	0.02	99.51
138.0-139.0	18.9	1.4	7850.9	0.02	99.52
139.0-140.0	19.3	1.4	7852.2	0.02	99.54
140.0-141.0	19.7	1.4	7853.6	0.02	99.56
141.0-142.0	20.1	1.4	7855.0	0.02	99.58
142.0-143.0	20.6	1.4	7856.3	0.02	99.59
143.0-144.0	21.1	1.4	7857.7	0.02	99.61

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: 8.598 m
Humidity: 65
Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	21.5	1.4	7859.1	0.02	99.63
145.0-146.0	22.0	1.4	7860.5	0.02	99.65
146.0-147.0	22.4	1.4	7861.8	0.02	99.66
147.0-148.0	22.7	1.3	7863.2	0.02	99.68
148.0-149.0	23.1	1.3	7864.5	0.02	99.70
149.0-150.0	23.5	1.3	7865.8	0.02	99.71
150.0-151.0	24.0	1.3	7867.1	0.02	99.73
151.0-152.0	24.4	1.3	7868.4	0.02	99.75
152.0-153.0	24.9	1.3	7869.6	0.02	99.76
153.0-154.0	25.3	1.2	7870.9	0.02	99.78
154.0-155.0	25.8	1.2	7872.1	0.02	99.79
155.0-156.0	26.1	1.2	7873.3	0.02	99.81
156.0-157.0	26.2	1.1	7874.4	0.01	99.82
157.0-158.0	26.3	1.1	7875.5	0.01	99.84
158.0-159.0	26.7	1.1	7876.6	0.01	99.85
159.0-160.0	27.0	1.0	7877.6	0.01	99.86
160.0-161.0	27.3	1.0	7878.6	0.01	99.88
161.0-162.0	27.5	1.0	7879.6	0.01	99.89
162.0-163.0	27.7	0.9	7880.5	0.01	99.90
163.0-164.0	27.9	0.9	7881.4	0.01	99.91
164.0-165.0	28.1	0.8	7882.2	0.01	99.92
165.0-166.0	28.4	0.8	7883.0	0.01	99.93
166.0-167.0	28.6	0.7	7883.7	0.01	99.94
167.0-168.0	28.7	0.7	7884.4	0.01	99.95
168.0-169.0	28.8	0.6	7885.0	0.01	99.96
169.0-170.0	29.1	0.6	7885.6	0.01	99.96
170.0-171.0	29.3	0.5	7886.1	0.01	99.97
171.0-172.0	29.4	0.5	7886.6	0.01	99.98
172.0-173.0	29.5	0.4	7887.0	0.01	99.98
173.0-174.0	29.6	0.4	7887.4	0.00	99.99
174.0-175.0	29.7	0.3	7887.7	0.00	99.99
175.0-176.0	29.8	0.3	7888.0	0.00	99.99
176.0-177.0	30.0	0.2	7888.2	0.00	100.00
177.0-178.0	30.1	0.1	7888.3	0.00	100.00
178.0-179.0	30.0	0.1	7888.4	0.00	100.00
179.0-180.0	30.1	0.0	7888.4	0.00	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: 8.598 m
 Humidity: 65
 Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	3767.1	3767.1	3767.1	3767.1	3767.1					
G1.0	3766.0	3765.2	3761.7	3762.0	3766.0					
G2.0	3759.3	3757.1	3751.7	3749.6	3759.3					
G3.0	3745.8	3744.2	3733.5	3731.8	3745.8					
G4.0	3725.4	3725.8	3710.4	3705.7	3725.4					
G5.0	3700.1	3702.1	3682.3	3677.1	3700.1					
G6.0	3670.3	3672.1	3650.1	3643.6	3670.3					
G7.0	3633.7	3639.4	3611.2	3605.8	3633.7					
G8.0	3598.2	3608.3	3574.1	3569.6	3598.2					
G9.0	3563.7	3568.2	3533.7	3534.1	3563.7					
G10.0	3521.4	3531.0	3493.5	3494.5	3521.4					
G11.0	3480.3	3489.2	3451.7	3450.3	3480.3					
G12.0	3440.3	3448.8	3404.8	3407.8	3440.3					
G13.0	3397.1	3401.3	3363.8	3365.3	3397.1					
G14.0	3350.0	3357.1	3320.2	3320.7	3350.0					
G15.0	3305.4	3312.1	3271.1	3271.0	3305.4					
G16.0	3259.2	3266.4	3225.1	3223.6	3259.2					
G17.0	3209.5	3212.2	3177.0	3174.7	3209.5					
G18.0	3154.3	3159.1	3126.3	3118.2	3154.3					
G19.0	3103.3	3104.9	3068.5	3063.7	3103.3					
G20.0	3050.0	3050.3	3014.7	3010.1	3050.0					
G21.0	2996.3	2987.9	2960.7	2952.8	2996.3					
G22.0	2936.7	2930.9	2905.7	2890.7	2936.7					
G23.0	2883.8	2874.8	2846.4	2834.7	2883.8					
G24.0	2830.4	2814.0	2793.7	2782.1	2830.4					
G25.0	2772.8	2758.9	2741.5	2723.5	2772.8					
G26.0	2721.5	2705.2	2684.9	2671.2	2721.5					
G27.0	2671.4	2652.7	2635.6	2620.8	2671.4					
G28.0	2621.0	2596.6	2587.2	2567.3	2621.0					
G29.0	2571.3	2545.3	2534.3	2519.1	2571.3					
G30.0	2518.1	2496.1	2486.9	2470.2	2518.1					
G31.0	2471.1	2447.9	2441.5	2423.5	2471.1					
G32.0	2422.2	2401.6	2392.7	2372.9	2422.2					
G33.0	2372.5	2353.0	2348.8	2327.8	2372.5					
G34.0	2327.7	2307.7	2305.9	2282.8	2327.7					
G35.0	2279.7	2263.2	2263.2	2239.6	2279.7					
G36.0	2235.7	2215.4	2221.0	2195.7	2235.7					

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: 8.598 m
Humidity: 65
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	2188.2	2172.5	2174.0	2148.3	2188.2					
G38.0	2145.4	2124.5	2132.9	2105.7	2145.4					
G39.0	2103.2	2082.0	2086.0	2062.9	2103.2					
G40.0	2056.2	2035.5	2042.8	2019.2	2056.2					
G41.0	2012.2	1991.9	1999.6	1972.0	2012.2					
G42.0	1969.9	1948.0	1954.7	1926.8	1969.9					
G43.0	1920.6	1899.1	1905.1	1883.1	1920.6					
G44.0	1877.0	1855.2	1860.8	1837.8	1877.0					
G45.0	1827.6	1807.0	1814.9	1792.7	1827.6					
G46.0	1783.3	1762.1	1765.0	1742.6	1783.3					
G47.0	1737.3	1712.4	1718.6	1697.1	1737.3					
G48.0	1690.6	1666.6	1672.2	1650.0	1690.6					
G49.0	1638.3	1619.9	1619.9	1598.0	1638.3					
G50.0	1588.9	1567.5	1571.7	1549.8	1588.9					
G51.0	1540.0	1519.3	1523.0	1501.2	1540.0					
G52.0	1490.1	1470.3	1473.3	1447.4	1490.1					
G53.0	1435.7	1416.3	1418.9	1397.4	1435.7					
G54.0	1385.5	1366.3	1368.2	1347.7	1385.5					
G55.0	1335.2	1316.0	1317.5	1292.1	1335.2					
G56.0	1279.8	1261.0	1261.3	1241.4	1279.8					
G57.0	1230.0	1210.9	1209.4	1190.2	1230.0					
G58.0	1178.0	1160.4	1158.4	1134.5	1178.0					
G59.0	1127.5	1110.4	1101.4	1083.9	1127.5					
G60.0	1071.0	1055.6	1050.3	1033.1	1071.0					
G61.0	1019.4	1006.3	1000.4	977.9	1019.4					
G62.0	968.5	956.4	945.8	928.2	968.5					
G63.0	917.9	906.3	896.5	878.3	917.9					
G64.0	866.6	851.8	842.5	824.1	866.6					
G65.0	812.3	802.9	793.7	775.6	812.3					
G66.0	763.7	755.0	745.2	727.8	763.7					
G67.0	716.2	707.5	692.3	676.4	716.2					
G68.0	669.0	661.4	644.8	630.3	669.0					
G69.0	623.5	610.9	598.8	584.9	623.5					
G70.0	574.7	566.3	553.7	537.1	574.7					
G71.0	530.0	523.4	505.9	494.2	530.0					
G72.0	487.9	481.6	464.6	453.9	487.9					
G73.0	447.1	437.3	424.7	411.0	447.1					

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: 8.598 m
Humidity: 65
Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	406.7	398.5	382.2	372.8	406.7					
G75.0	365.9	361.3	345.7	333.3	365.9					
G76.0	329.9	325.9	311.4	299.8	329.9					
G77.0	295.8	292.3	275.4	267.6	295.8					
G78.0	263.2	256.6	243.5	232.7	263.2					
G79.0	232.2	226.3	214.2	204.0	232.2					
G80.0	200.5	197.7	183.7	176.5	200.5					
G81.0	172.9	170.0	156.5	151.6	172.9					
G82.0	147.5	142.1	131.7	124.7	147.5					
G83.0	123.9	118.1	107.7	100.3	123.9					
G84.0	101.6	96.0	83.4	79.8	101.6					
G85.0	79.6	75.8	65.6	59.9	79.6					
G86.0	62.2	58.2	49.2	45.4	62.2					
G87.0	48.2	41.1	36.9	33.9	48.2					
G88.0	36.9	30.5	28.9	25.4	36.9					
G89.0	29.2	22.9	25.9	22.2	29.2					
G90.0	25.5	19.5	25.4	21.2	25.5					
G91.0	25.8	18.8	25.7	20.6	25.8					
G92.0	25.9	19.2	25.4	20.1	25.9					
G93.0	25.5	19.1	24.5	18.8	25.5					
G94.0	24.7	18.3	23.1	17.3	24.7					
G95.0	23.3	16.7	21.6	16.3	23.3					
G96.0	22.2	15.6	20.8	15.5	22.2					
G97.0	21.2	15.2	19.9	15.2	21.2					
G98.0	20.8	15.0	19.5	14.9	20.8					
G99.0	19.8	15.2	19.3	14.8	19.8					
G100.0	19.2	15.6	18.2	14.8	19.2					
G101.0	17.9	15.5	17.5	14.3	17.9					
G102.0	16.8	15.6	16.4	14.2	16.8					
G103.0	16.1	15.3	15.0	14.2	16.1					
G104.0	14.4	15.3	12.6	13.2	14.4					
G105.0	13.3	15.2	10.9	11.8	13.3					
G106.0	12.9	14.9	10.1	10.3	12.9					
G107.0	12.5	14.9	9.3	8.6	12.5					
G108.0	10.9	12.8	8.7	8.2	10.9					
G109.0	10.8	11.6	8.0	8.2	10.8					
G110.0	10.1	10.9	7.8	7.9	10.1					

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: 8.598 m
 Humidity: 65
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	9.8	10.6	7.4	8.1	9.8					
G112.0	10.1	10.4	7.7	8.4	10.1					
G113.0	10.2	10.4	8.1	8.4	10.2					
G114.0	10.7	10.6	8.3	8.8	10.7					
G115.0	10.8	10.6	8.8	8.9	10.8					
G116.0	10.9	11.6	9.0	9.3	10.9					
G117.0	11.6	11.6	9.1	8.8	11.6					
G118.0	12.2	11.7	9.5	9.1	12.2					
G119.0	12.9	11.4	10.0	9.3	12.9					
G120.0	12.8	12.0	10.4	9.9	12.8					
G121.0	13.6	12.3	10.5	10.2	13.6					
G122.0	13.9	13.0	11.1	10.9	13.9					
G123.0	14.0	13.0	11.1	11.3	14.0					
G124.0	14.4	13.5	11.6	11.3	14.4					
G125.0	15.0	13.9	12.2	12.1	15.0					
G126.0	15.6	14.3	12.6	12.7	15.6					
G127.0	15.6	14.9	12.9	13.0	15.6					
G128.0	16.3	14.8	13.2	13.0	16.3					
G129.0	16.5	15.5	13.6	13.7	16.5					
G130.0	17.0	15.9	14.2	13.9	17.0					
G131.0	17.2	16.3	13.9	14.1	17.2					
G132.0	17.8	16.7	14.9	14.3	17.8					
G133.0	18.2	17.1	15.1	14.9	18.2					
G134.0	19.2	17.8	15.4	15.3	19.2					
G135.0	19.8	18.3	16.0	15.9	19.8					
G136.0	19.9	18.8	16.1	16.2	19.9					
G137.0	20.6	19.4	16.5	16.4	20.6					
G138.0	20.9	19.8	17.1	17.1	20.9					
G139.0	21.3	20.2	17.5	17.4	21.3					
G140.0	21.3	20.6	17.9	18.0	21.3					
G141.0	21.7	21.0	18.5	18.1	21.7					
G142.0	22.4	21.3	19.3	18.4	22.4					
G143.0	23.3	21.9	19.6	18.8	23.3					
G144.0	23.3	22.2	20.1	19.6	23.3					
G145.0	24.0	22.4	20.3	20.1	24.0					
G146.0	24.5	23.1	20.9	20.5	24.5					
G147.0	24.7	23.4	21.2	20.9	24.7					

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: 8.598 m
 Humidity: 65
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	25.1	23.7	21.7	21.3	25.1					
G149.0	24.8	24.1	22.2	21.7	24.8					
G150.0	25.8	24.5	22.9	22.2	25.8					
G151.0	25.9	24.7	23.5	22.6	25.9					
G152.0	26.5	24.9	24.1	23.3	26.5					
G153.0	27.3	25.4	24.5	23.4	27.3					
G154.0	27.6	25.8	24.8	24.0	27.6					
G155.0	27.9	26.5	25.1	24.5	27.9					
G156.0	28.0	26.6	25.4	24.8	28.0					
G157.0	28.3	26.6	25.5	24.4	28.3					
G158.0	28.0	26.9	25.9	25.1	28.0					
G159.0	29.2	27.4	26.2	25.1	29.2					
G160.0	28.9	27.4	26.6	25.5	28.9					
G161.0	29.3	27.9	27.1	25.9	29.3					
G162.0	29.3	28.0	27.2	25.6	29.3					
G163.0	29.0	28.4	27.6	26.2	29.0					
G164.0	29.4	28.3	27.8	26.5	29.4					
G165.0	29.7	28.4	28.0	26.7	29.7					
G166.0	29.9	28.6	28.3	27.4	29.9					
G167.0	29.7	28.6	28.5	27.7	29.7					
G168.0	29.7	28.7	28.7	28.0	29.7					
G169.0	30.1	28.1	28.7	28.4	30.1					
G170.0	30.3	29.1	29.3	28.4	30.3					
G171.0	30.3	29.4	29.3	28.4	30.3					
G172.0	30.6	29.3	29.6	28.6	30.6					
G173.0	30.6	29.4	29.3	29.0	30.6					
G174.0	30.6	29.3	29.7	29.3	30.6					
G175.0	30.6	29.5	29.6	29.4	30.6					
G176.0	30.8	29.7	29.7	29.4	30.8					
G177.0	31.0	29.8	29.9	30.0	31.0					
G178.0	30.4	29.8	29.7	29.8	30.4					
G179.0	31.3	29.7	29.7	29.8	31.3					
G180.0	30.6	29.8	29.9	30.1	30.6					

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: 8.598 m
 Humidity: 65
 Inspector: