

Report No.: 10

Test Time: 2019/7/27 15:37

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: LCL500-200W

Current: 1.742 A

Power Factor: 0.984

Voltage: 119.8 V

Power: 205.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 19409.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H114.3

Vertical Diffuse Angle(50%): V114.3

Luminaire Efficacy Rating (LER): 94.50

Max. Intensity: 6701.92 cd

S/MH(C0/C180): 1.27

Total Rated Lamp Lumens: 19409.9 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 6701.92 cd

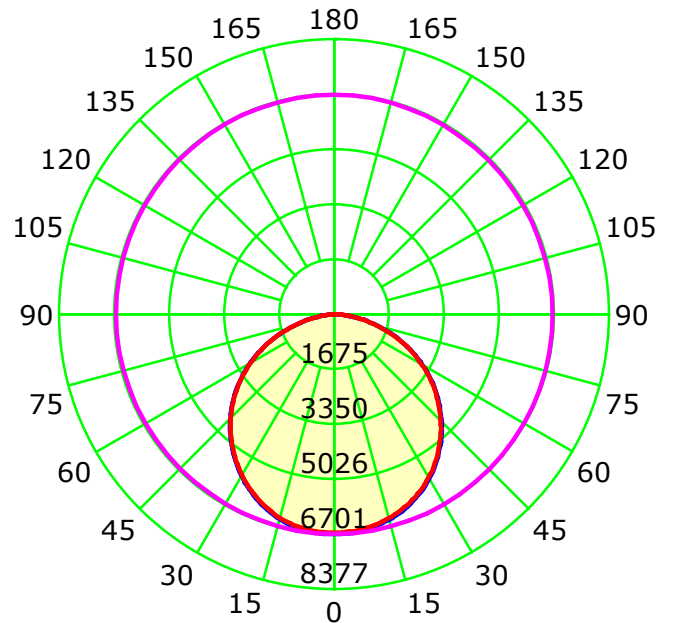
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.27

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 114.3°

— C0-C180 — C90-C270 — G0

C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instruments

Test Type: TYPE C

Temperature: 26

Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0

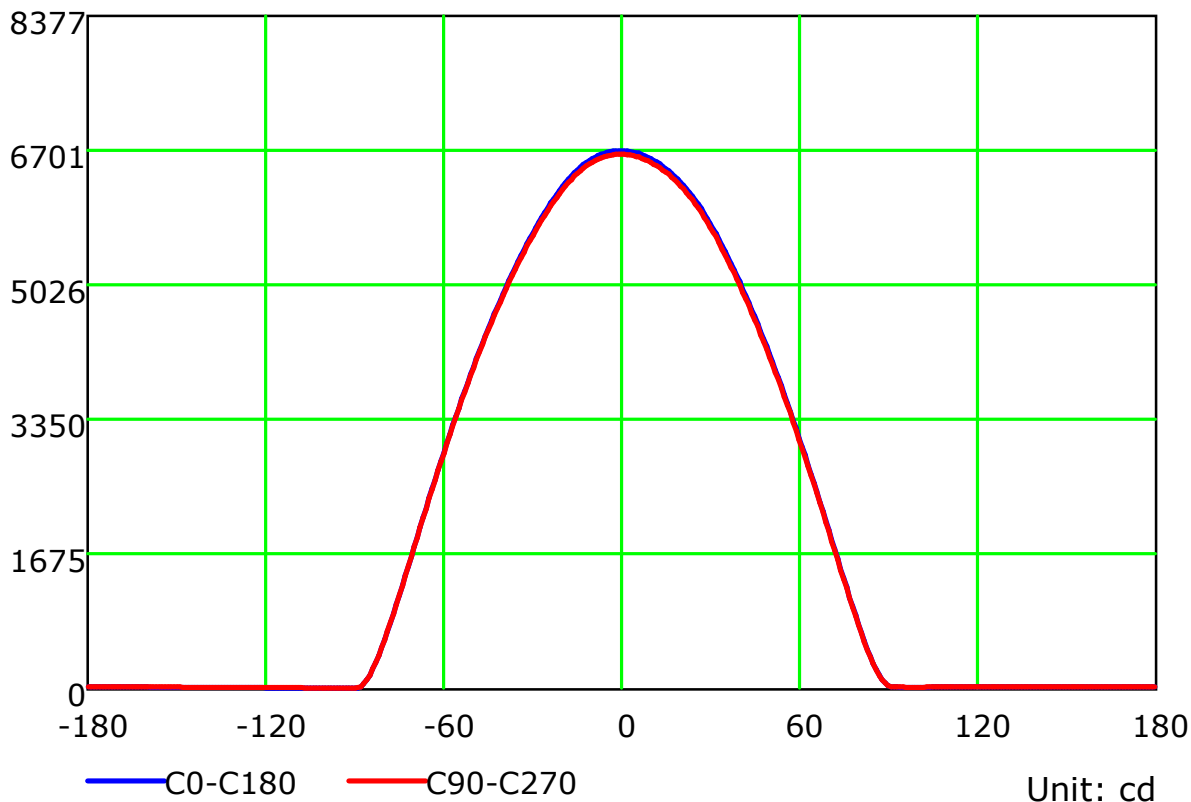
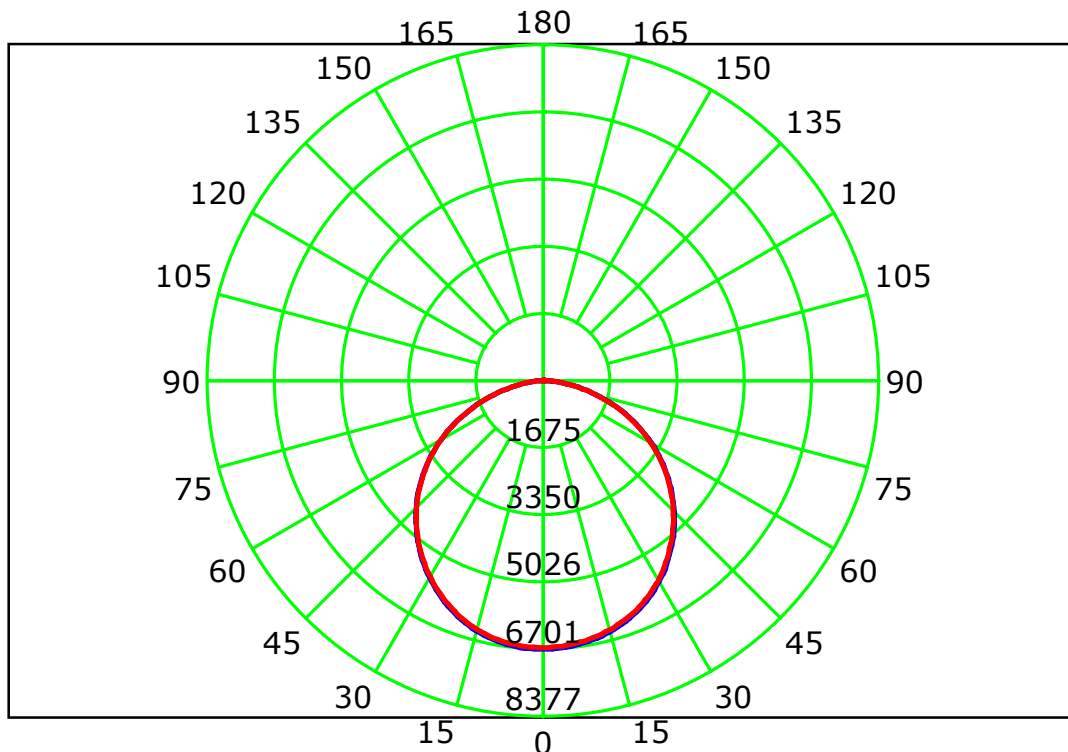
Test Device: GPM-1800B

Distance: 8.509 m

Humidity: 55

Inspector:

Luminous Intensity Distribution Curve



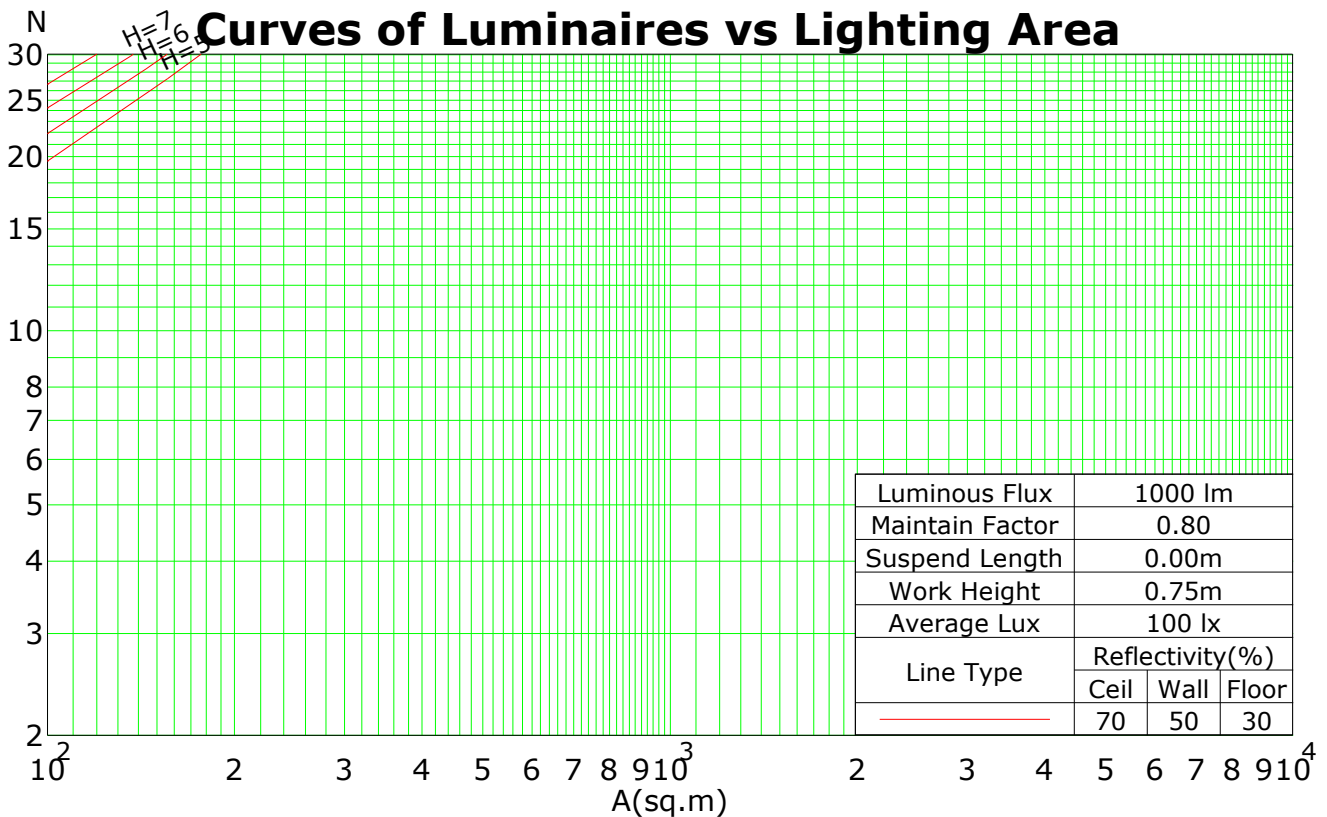
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.509 m
Humidity: 55
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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	87	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	78	75	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

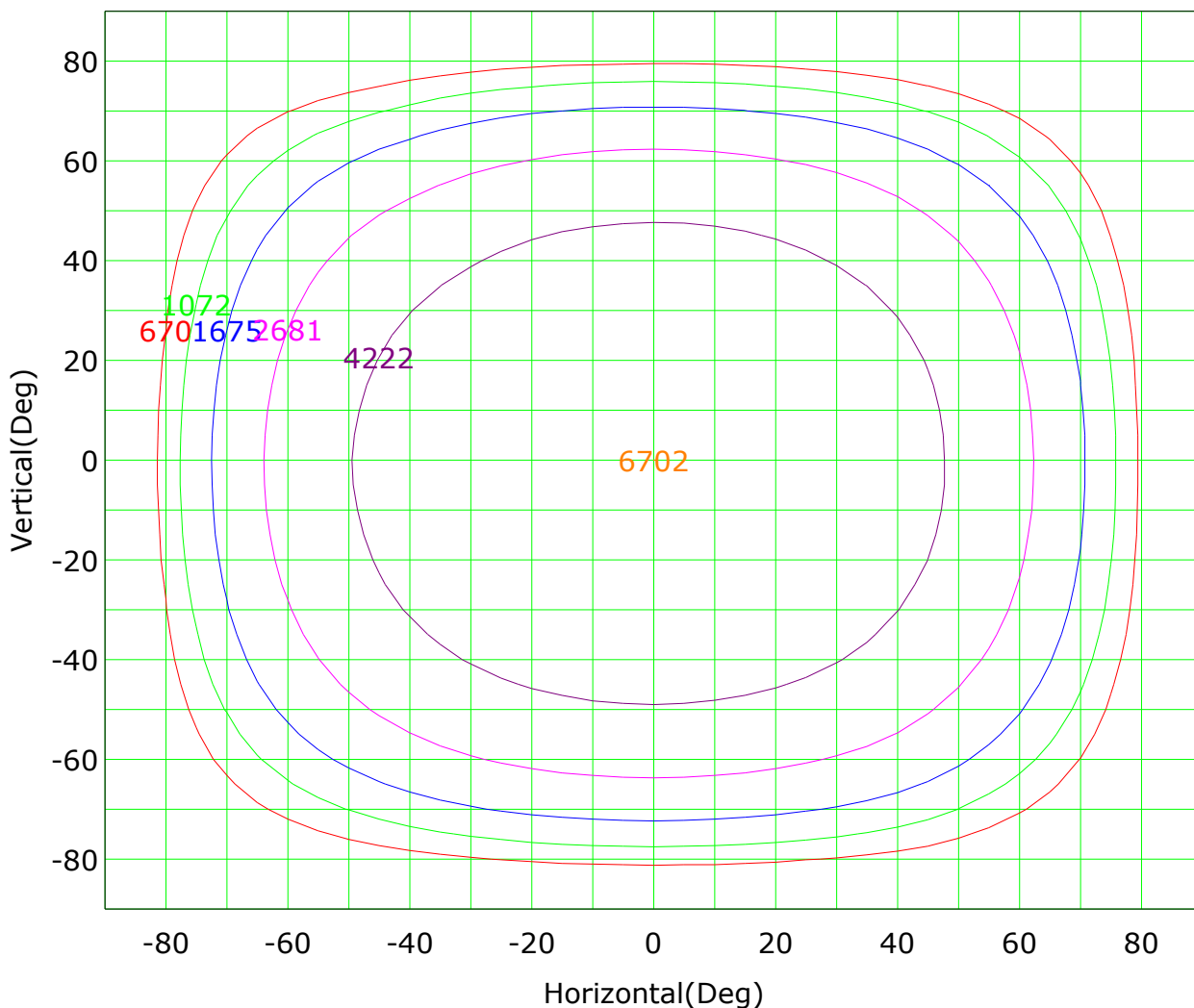
Spacing Criteria (0-180): 1.27
 Spacing Criteria (90-270): 1.27
 Spacing Criteria (Diagonal): 1.38



C Plane (°):0.0-360.0: 45.0
 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: 8.509 m
 Humidity: 55
 Inspector:

Isocandela (rectangle)



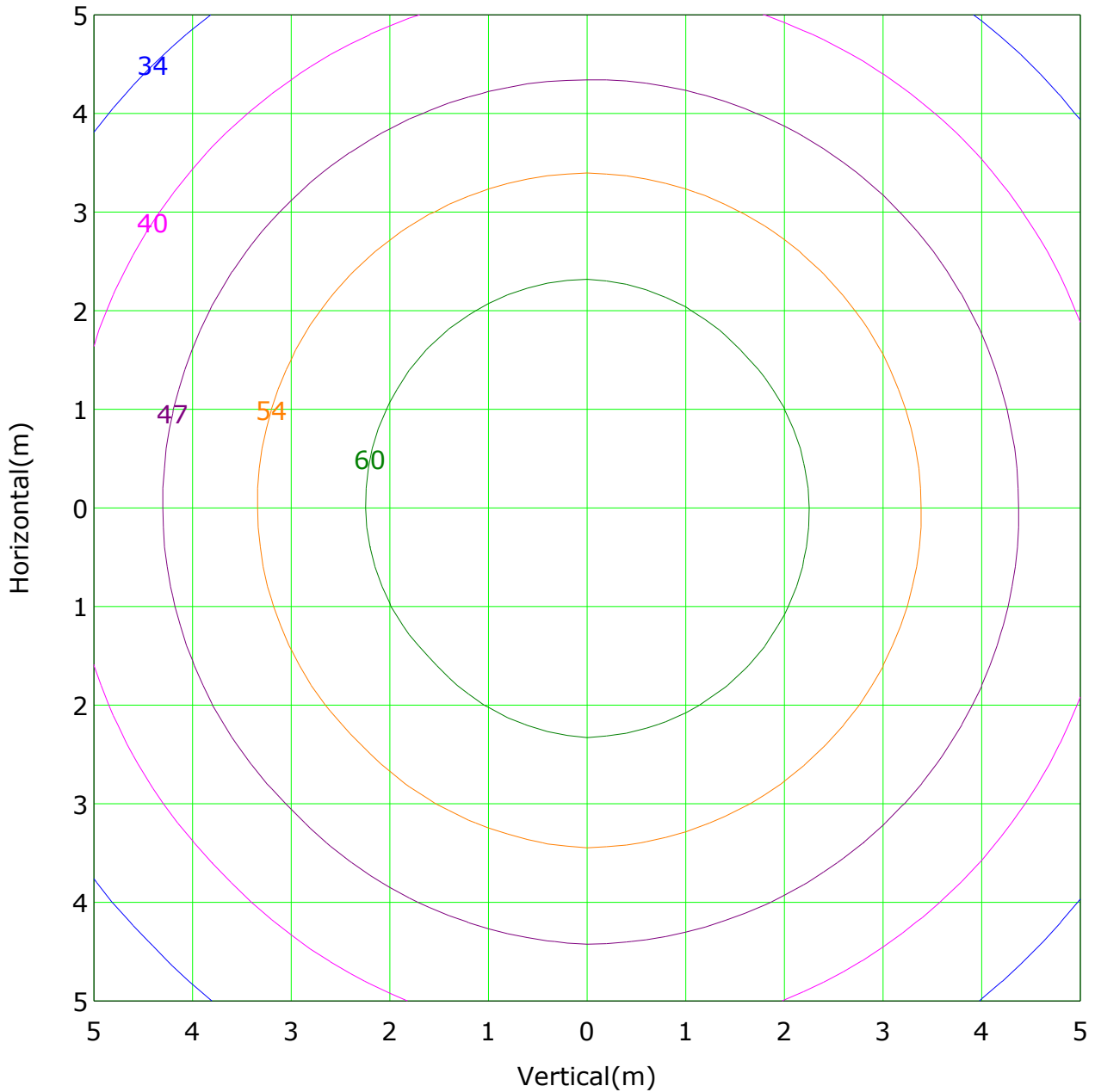
Imax (100%): 6702 cd

- | | |
|-------------------|-------------------|
| — (10%): 670 cd | — (16%): 1072 cd |
| — (25%): 1675 cd | — (40%): 2681 cd |
| — (63%): 4222 cd | — (100%): 6702 cd |

C Plane (°):0.0-360.0: 45.0
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: 8.509 m
Humidity: 55
Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 67.0 lx	
— (30%): 20.1 lx	— (40%): 26.8 lx	— (60%): 40.2 lx	— (80%): 53.6 lx
— (50%): 33.5 lx	— (70%): 46.9 lx	— (100%): 67.0 lx	— (150%): 100.5 lx
— (90%): 60.3 lx			
— (120%): 80.4 lx			

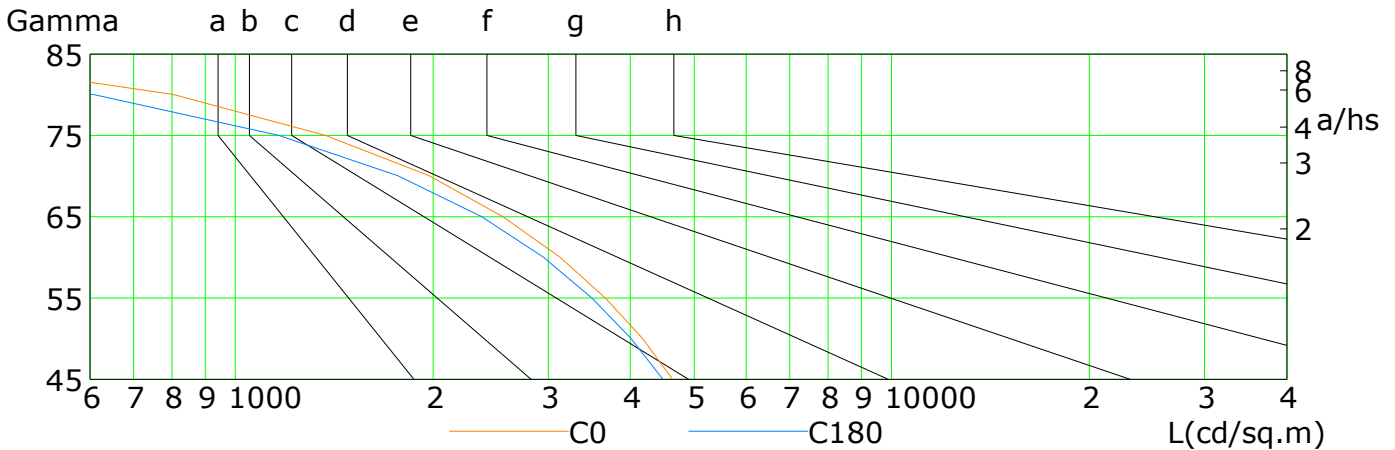
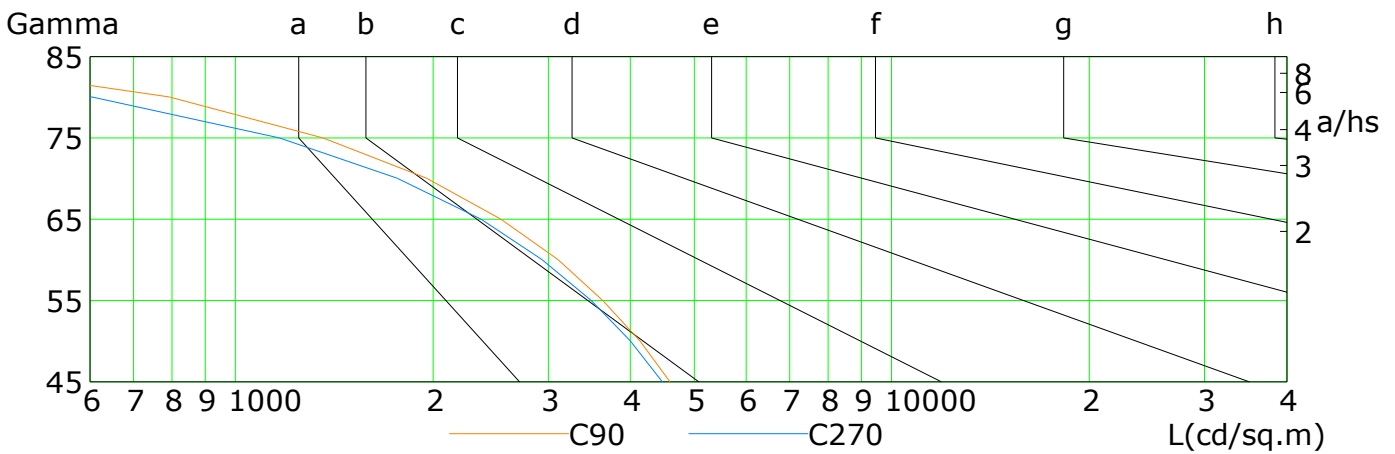
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Test Lab: Inventfine instruments
Test Type: TYPE C
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.509 m
Humidity: 55
Inspector:

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

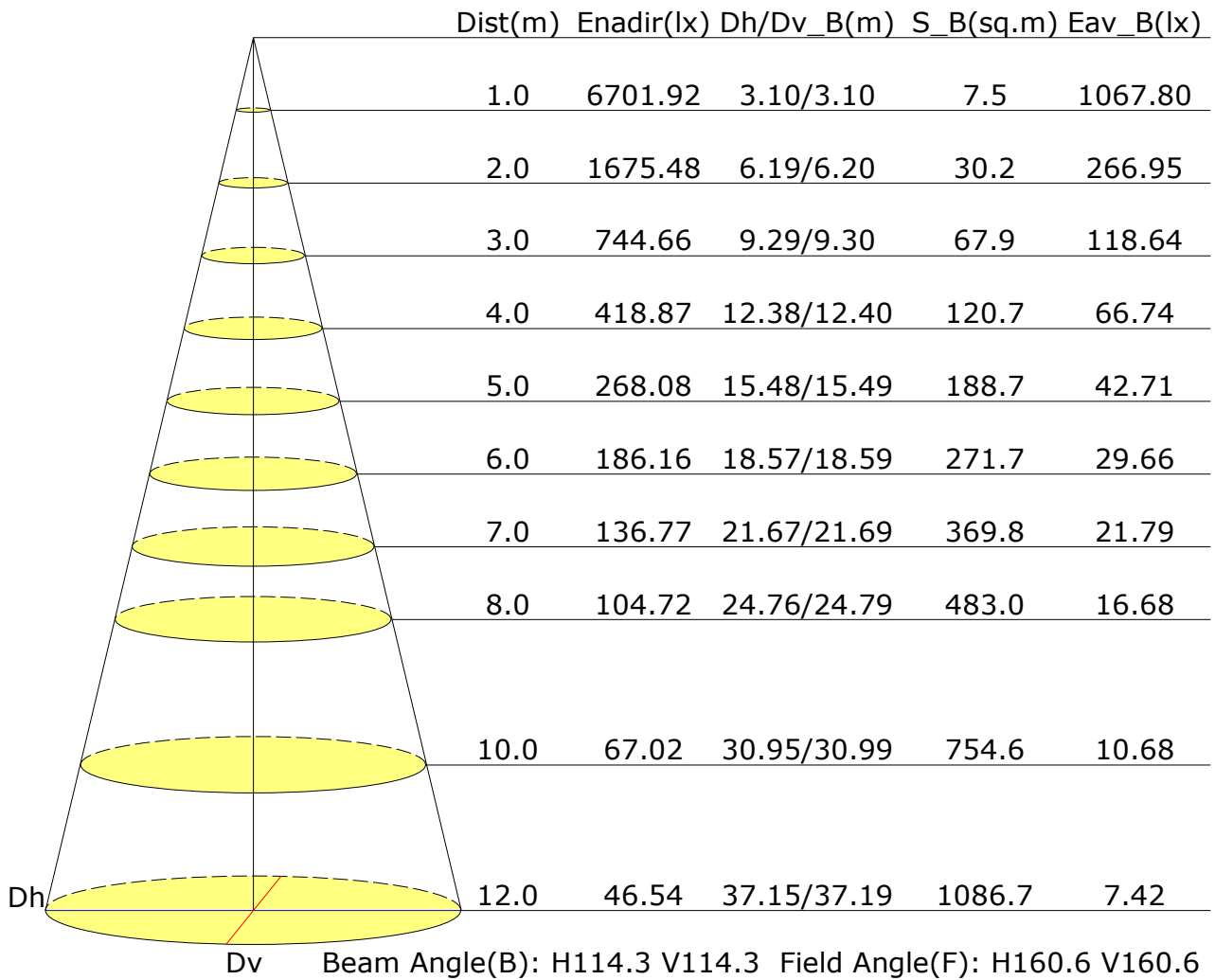


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4637	4171	3663	3122	2559	1974	1372	804	310
C90	4595	4133	3630	3100	2541	1959	1360	794	304
C180	4485	4009	3494	2948	2374	1770	1165	607	164
C270	4471	3995	3489	2935	2367	1763	1168	604	164

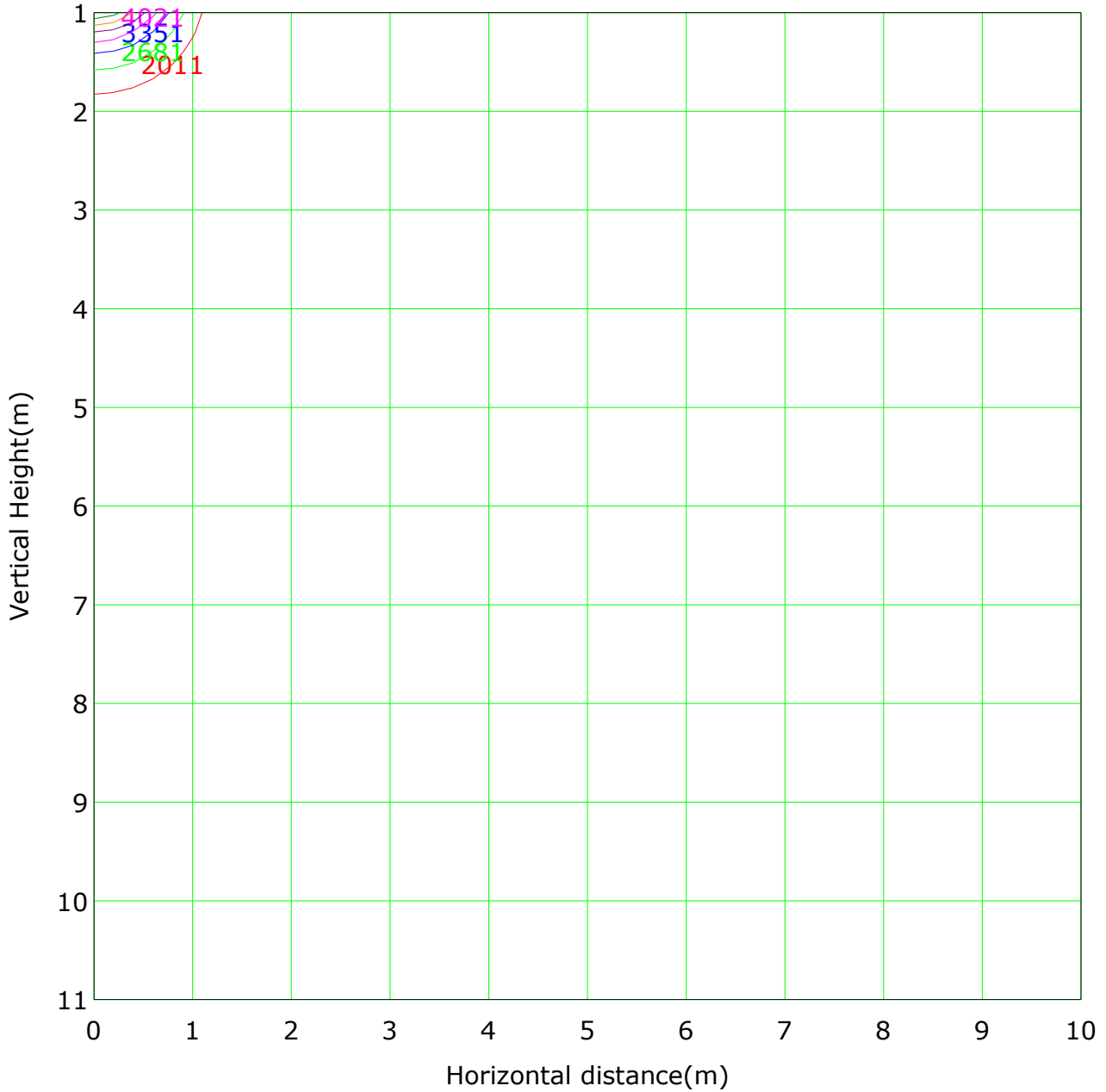
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.509 m
Humidity: 55
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

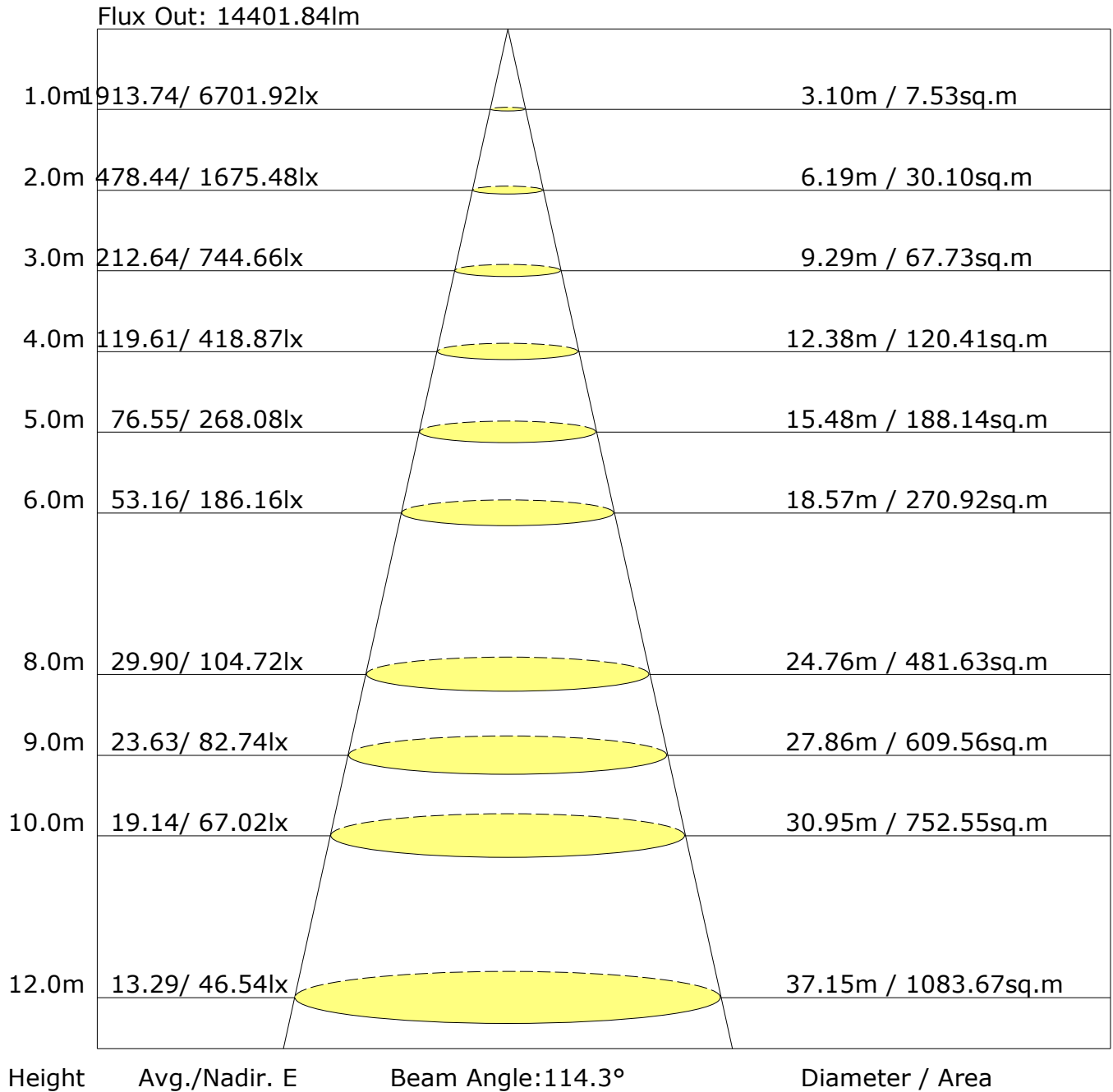


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 6701.9 lx
— (30%):2010.6 lx	— (40%):2680.8 lx	
— (50%):3351.0 lx	— (60%):4021.2 lx	
— (70%):4691.3 lx	— (80%):5361.5 lx	
— (90%):6031.7 lx	— (100%):6701.9 lx	
— (120%):8042.3 lx	— (150%):10052.9 lx	

C Plane (°):0.0-360.0: 45.0
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: 8.509 m
Humidity: 55
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	-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 19410lm ($8\log(F/F_0) = 10.3$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	6669.3	6.4	6.4	0.03	0.03
1.0-2.0	6667.3	19.1	25.5	0.10	0.13
2.0-3.0	6663.3	31.9	57.4	0.16	0.30
3.0-4.0	6657.4	44.6	102.0	0.23	0.53
4.0-5.0	6649.4	57.2	159.2	0.29	0.82
5.0-6.0	6641.1	69.8	229.0	0.36	1.18
6.0-7.0	6629.5	82.3	311.3	0.42	1.60
7.0-8.0	6613.4	94.7	405.9	0.49	2.09
8.0-9.0	6597.3	106.9	512.9	0.55	2.64
9.0-10.0	6580.1	119.1	632.0	0.61	3.26
10.0-11.0	6558.7	131.1	763.0	0.68	3.93
11.0-12.0	6535.7	142.9	905.9	0.74	4.67
12.0-13.0	6511.9	154.6	1060.5	0.80	5.46
13.0-14.0	6483.8	166.0	1226.5	0.86	6.32
14.0-15.0	6452.9	177.2	1403.6	0.91	7.23
15.0-16.0	6422.5	188.2	1591.9	0.97	8.20
16.0-17.0	6388.3	199.0	1790.8	1.03	9.23
17.0-18.0	6350.6	209.4	2000.2	1.08	10.31
18.0-19.0	6312.9	219.7	2219.9	1.13	11.44
19.0-20.0	6271.5	229.6	2449.5	1.18	12.62
20.0-21.0	6228.8	239.2	2688.7	1.23	13.85
21.0-22.0	6183.8	248.5	2937.2	1.28	15.13
22.0-23.0	6135.6	257.5	3194.7	1.33	16.46
23.0-24.0	6086.4	266.1	3460.8	1.37	17.83
24.0-25.0	6033.1	274.4	3735.2	1.41	19.24
25.0-26.0	5979.7	282.3	4017.5	1.45	20.70
26.0-27.0	5925.4	289.9	4307.4	1.49	22.19
27.0-28.0	5866.2	297.0	4604.5	1.53	23.72
28.0-29.0	5804.9	303.7	4908.2	1.56	25.29
29.0-30.0	5742.1	310.1	5218.3	1.60	26.88
30.0-31.0	5676.2	315.9	5534.2	1.63	28.51
31.0-32.0	5611.0	321.5	5855.7	1.66	30.17
32.0-33.0	5543.2	326.6	6182.3	1.68	31.85
33.0-34.0	5469.4	331.0	6513.3	1.71	33.56
34.0-35.0	5394.7	335.1	6848.4	1.73	35.28
35.0-36.0	5321.7	338.9	7187.3	1.75	37.03

C Plane (°):0.0-360.0: 45.0
 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: 8.509 m
 Humidity: 55
 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	5246.8	342.2	7529.6	1.76	38.79
37.0-38.0	5169.8	345.1	7874.7	1.78	40.57
38.0-39.0	5091.4	347.6	8222.2	1.79	42.36
39.0-40.0	5011.0	349.5	8571.8	1.80	44.16
40.0-41.0	4928.2	351.0	8922.8	1.81	45.97
41.0-42.0	4844.1	352.0	9274.7	1.81	47.78
42.0-43.0	4760.1	352.7	9627.4	1.82	49.60
43.0-44.0	4672.3	352.7	9980.1	1.82	51.42
44.0-45.0	4583.6	352.3	10332.4	1.82	53.23
45.0-46.0	4495.3	351.6	10684.0	1.81	55.04
46.0-47.0	4402.9	350.2	11034.2	1.80	56.85
47.0-48.0	4308.6	348.4	11382.6	1.79	58.64
48.0-49.0	4214.2	346.1	11728.7	1.78	60.43
49.0-50.0	4117.7	343.4	12072.1	1.77	62.20
50.0-51.0	4020.2	340.2	12412.2	1.75	63.95
51.0-52.0	3921.8	336.6	12748.8	1.73	65.68
52.0-53.0	3822.7	332.6	13081.4	1.71	67.40
53.0-54.0	3722.1	328.1	13409.5	1.69	69.09
54.0-55.0	3617.5	323.0	13732.5	1.66	70.75
55.0-56.0	3509.7	317.2	14049.6	1.63	72.38
56.0-57.0	3403.1	311.2	14360.8	1.60	73.99
57.0-58.0	3297.1	304.9	14665.8	1.57	75.56
58.0-59.0	3188.0	298.1	14963.9	1.54	77.09
59.0-60.0	3077.4	290.8	15254.6	1.50	78.59
60.0-61.0	2966.7	283.2	15537.8	1.46	80.05
61.0-62.0	2855.1	275.2	15812.9	1.42	81.47
62.0-63.0	2741.5	266.7	16079.6	1.37	82.84
63.0-64.0	2626.5	257.8	16337.4	1.33	84.17
64.0-65.0	2511.7	248.6	16586.0	1.28	85.45
65.0-66.0	2397.0	239.2	16825.2	1.23	86.68
66.0-67.0	2278.8	229.2	17054.3	1.18	87.86
67.0-68.0	2157.9	218.6	17273.0	1.13	88.99
68.0-69.0	2038.1	207.9	17480.9	1.07	90.06
69.0-70.0	1920.4	197.3	17678.2	1.02	91.08
70.0-71.0	1801.1	186.2	17864.3	0.96	92.04
71.0-72.0	1681.2	174.8	18039.2	0.90	92.94

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Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.509 m
Humidity: 55
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	1562.0	163.4	18202.5	0.84	93.78
73.0-74.0	1441.8	151.6	18354.1	0.78	94.56
74.0-75.0	1322.9	139.8	18493.9	0.72	95.28
75.0-76.0	1205.8	128.0	18621.9	0.66	95.94
76.0-77.0	1090.1	116.2	18738.2	0.60	96.54
77.0-78.0	975.1	104.4	18842.6	0.54	97.08
78.0-79.0	862.0	92.6	18935.2	0.48	97.55
79.0-80.0	753.0	81.2	19016.4	0.42	97.97
80.0-81.0	645.8	69.9	19086.3	0.36	98.33
81.0-82.0	542.9	58.9	19145.2	0.30	98.64
82.0-83.0	446.3	48.5	19193.7	0.25	98.89
83.0-84.0	356.8	38.9	19232.5	0.20	99.09
84.0-85.0	274.2	29.9	19262.5	0.15	99.24
85.0-86.0	199.4	21.8	19284.3	0.11	99.35
86.0-87.0	136.5	14.9	19299.2	0.08	99.43
87.0-88.0	85.9	9.4	19308.6	0.05	99.48
88.0-89.0	49.7	5.4	19314.1	0.03	99.51
89.0-90.0	27.8	3.1	19317.1	0.02	99.52
90.0-91.0	16.8	1.8	19319.0	0.01	99.53
91.0-92.0	12.4	1.4	19320.3	0.01	99.54
92.0-93.0	11.2	1.2	19321.5	0.01	99.54
93.0-94.0	10.5	1.1	19322.7	0.01	99.55
94.0-95.0	10.0	1.1	19323.8	0.01	99.56
95.0-96.0	9.8	1.1	19324.9	0.01	99.56
96.0-97.0	9.6	1.1	19325.9	0.01	99.57
97.0-98.0	9.7	1.0	19327.0	0.01	99.57
98.0-99.0	9.8	1.1	19328.0	0.01	99.58
99.0-100.0	10.0	1.1	19329.1	0.01	99.58
100.0-101.0	10.3	1.1	19330.2	0.01	99.59
101.0-102.0	10.6	1.1	19331.4	0.01	99.60
102.0-103.0	10.9	1.2	19332.5	0.01	99.60
103.0-104.0	11.3	1.2	19333.7	0.01	99.61
104.0-105.0	11.6	1.2	19335.0	0.01	99.61
105.0-106.0	11.9	1.3	19336.2	0.01	99.62
106.0-107.0	12.2	1.3	19337.5	0.01	99.63
107.0-108.0	12.5	1.3	19338.8	0.01	99.63

C Plane (°):0.0-360.0: 45.0
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: 8.509 m
Humidity: 55
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	12.8	1.3	19340.1	0.01	99.64
109.0-110.0	13.1	1.4	19341.5	0.01	99.65
110.0-111.0	13.3	1.4	19342.9	0.01	99.65
111.0-112.0	13.6	1.4	19344.3	0.01	99.66
112.0-113.0	13.9	1.4	19345.7	0.01	99.67
113.0-114.0	14.1	1.4	19347.1	0.01	99.68
114.0-115.0	14.2	1.4	19348.5	0.01	99.68
115.0-116.0	14.5	1.4	19349.9	0.01	99.69
116.0-117.0	14.8	1.5	19351.4	0.01	99.70
117.0-118.0	15.0	1.5	19352.8	0.01	99.71
118.0-119.0	15.1	1.5	19354.3	0.01	99.71
119.0-120.0	15.3	1.5	19355.7	0.01	99.72
120.0-121.0	15.6	1.5	19357.2	0.01	99.73
121.0-122.0	15.8	1.5	19358.7	0.01	99.74
122.0-123.0	16.0	1.5	19360.2	0.01	99.74
123.0-124.0	16.2	1.5	19361.7	0.01	99.75
124.0-125.0	16.4	1.5	19363.1	0.01	99.76
125.0-126.0	16.5	1.5	19364.6	0.01	99.77
126.0-127.0	16.6	1.5	19366.1	0.01	99.77
127.0-128.0	16.7	1.4	19367.5	0.01	99.78
128.0-129.0	16.8	1.4	19369.0	0.01	99.79
129.0-130.0	16.9	1.4	19370.4	0.01	99.80
130.0-131.0	17.1	1.4	19371.8	0.01	99.80
131.0-132.0	17.2	1.4	19373.2	0.01	99.81
132.0-133.0	17.2	1.4	19374.6	0.01	99.82
133.0-134.0	17.1	1.4	19376.0	0.01	99.83
134.0-135.0	17.2	1.3	19377.3	0.01	99.83
135.0-136.0	17.4	1.3	19378.7	0.01	99.84
136.0-137.0	17.5	1.3	19380.0	0.01	99.85
137.0-138.0	17.6	1.3	19381.3	0.01	99.85
138.0-139.0	17.6	1.3	19382.6	0.01	99.86
139.0-140.0	17.6	1.2	19383.8	0.01	99.87
140.0-141.0	17.6	1.2	19385.0	0.01	99.87
141.0-142.0	17.6	1.2	19386.2	0.01	99.88
142.0-143.0	17.7	1.2	19387.4	0.01	99.88
143.0-144.0	17.8	1.2	19388.6	0.01	99.89

C Plane (°):0.0-360.0: 45.0
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: 8.509 m
Humidity: 55
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	17.8	1.1	19389.7	0.01	99.90
145.0-146.0	17.9	1.1	19390.8	0.01	99.90
146.0-147.0	17.9	1.1	19391.9	0.01	99.91
147.0-148.0	17.9	1.1	19393.0	0.01	99.91
148.0-149.0	17.9	1.0	19394.0	0.01	99.92
149.0-150.0	17.9	1.0	19395.0	0.01	99.92
150.0-151.0	17.9	1.0	19395.9	0.00	99.93
151.0-152.0	18.0	0.9	19396.9	0.00	99.93
152.0-153.0	18.0	0.9	19397.8	0.00	99.94
153.0-154.0	18.0	0.9	19398.7	0.00	99.94
154.0-155.0	18.0	0.8	19399.5	0.00	99.95
155.0-156.0	17.9	0.8	19400.3	0.00	99.95
156.0-157.0	17.9	0.8	19401.1	0.00	99.95
157.0-158.0	17.9	0.8	19401.9	0.00	99.96
158.0-159.0	17.8	0.7	19402.6	0.00	99.96
159.0-160.0	17.7	0.7	19403.3	0.00	99.97
160.0-161.0	17.5	0.6	19403.9	0.00	99.97
161.0-162.0	17.4	0.6	19404.5	0.00	99.97
162.0-163.0	17.3	0.6	19405.1	0.00	99.98
163.0-164.0	17.3	0.5	19405.6	0.00	99.98
164.0-165.0	17.4	0.5	19406.1	0.00	99.98
165.0-166.0	17.4	0.5	19406.6	0.00	99.98
166.0-167.0	17.4	0.4	19407.1	0.00	99.99
167.0-168.0	17.5	0.4	19407.5	0.00	99.99
168.0-169.0	17.6	0.4	19407.9	0.00	99.99
169.0-170.0	17.6	0.4	19408.2	0.00	99.99
170.0-171.0	17.6	0.3	19408.5	0.00	99.99
171.0-172.0	17.5	0.3	19408.8	0.00	99.99
172.0-173.0	17.5	0.3	19409.1	0.00	100.00
173.0-174.0	17.5	0.2	19409.3	0.00	100.00
174.0-175.0	17.6	0.2	19409.5	0.00	100.00
175.0-176.0	17.5	0.2	19409.6	0.00	100.00
176.0-177.0	17.4	0.1	19409.7	0.00	100.00
177.0-178.0	17.5	0.1	19409.8	0.00	100.00
178.0-179.0	17.6	0.1	19409.9	0.00	100.00
179.0-180.0	17.7	0.0	19409.9	0.00	100.00

C Plane (°):0.0-360.0: 45.0
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: 8.509 m
Humidity: 55
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	6701.9	6678.9	6657.5	6640.3	6701.9	6678.9	6657.5	6640.3	6701.9	
G1.0	6701.4	6677.5	6655.6	6638.9	6701.9	6678.9	6657.0	6639.5	6701.4	
G2.0	6697.8	6674.0	6652.6	6635.6	6698.9	6676.2	6654.8	6636.7	6697.8	
G3.0	6691.5	6668.2	6646.9	6631.0	6694.8	6671.8	6650.4	6632.3	6691.5	
G4.0	6684.7	6661.6	6638.9	6623.0	6688.0	6664.9	6644.1	6625.5	6684.7	
G5.0	6675.6	6651.5	6629.9	6614.0	6679.7	6657.0	6635.1	6616.5	6675.6	
G6.0	6670.7	6648.0	6625.5	6609.1	6667.7	6647.1	6623.6	6606.3	6670.7	
G7.0	6653.2	6628.8	6606.0	6593.7	6654.8	6634.3	6611.3	6591.5	6653.2	
G8.0	6634.8	6610.7	6589.9	6574.5	6639.7	6618.4	6596.2	6576.2	6634.8	
G9.0	6621.4	6598.9	6577.5	6561.4	6620.0	6601.1	6577.3	6558.9	6621.4	
G10.0	6604.4	6579.5	6556.7	6544.4	6600.6	6581.4	6557.8	6539.5	6604.4	
G11.0	6578.4	6553.5	6533.2	6519.2	6578.6	6558.9	6535.6	6517.0	6578.4	
G12.0	6558.9	6535.9	6515.1	6499.5	6553.7	6532.6	6511.5	6489.4	6558.9	
G13.0	6536.2	6511.0	6489.1	6478.4	6526.9	6505.8	6483.9	6462.2	6536.2	
G14.0	6504.1	6481.1	6460.0	6446.3	6495.4	6475.9	6451.5	6432.4	6504.1	
G15.0	6477.0	6449.9	6431.5	6418.1	6462.2	6440.3	6419.2	6400.9	6477.0	
G16.0	6451.8	6427.2	6408.5	6393.5	6426.9	6405.8	6384.7	6362.5	6451.8	
G17.0	6414.8	6390.5	6368.0	6358.1	6385.0	6368.0	6342.5	6325.5	6414.8	
G18.0	6380.0	6357.6	6336.5	6324.4	6344.7	6324.2	6303.3	6286.1	6380.0	
G19.0	6350.5	6320.0	6302.5	6289.1	6300.9	6281.4	6262.0	6243.1	6350.5	
G20.0	6303.1	6280.3	6259.5	6246.4	6256.5	6237.9	6217.6	6193.8	6303.1	
G21.0	6271.0	6247.5	6225.5	6214.9	6203.1	6190.8	6165.8	6146.9	6271.0	
G22.0	6225.3	6197.0	6179.3	6163.9	6154.6	6140.9	6116.2	6098.4	6225.3	
G23.0	6179.5	6154.0	6131.6	6122.5	6102.3	6090.5	6065.3	6047.8	6179.5	
G24.0	6129.9	6107.2	6088.0	6074.6	6049.1	6031.9	6012.4	5996.3	6129.9	
G25.0	6081.2	6049.4	6034.6	6017.9	5988.0	5978.2	5953.3	5936.8	6081.2	
G26.0	6035.2	6008.9	5988.3	5975.2	5931.1	5922.0	5896.0	5879.6	6035.2	
G27.0	5976.8	5952.4	5931.9	5920.4	5871.9	5857.6	5837.9	5820.9	5976.8	
G28.0	5915.2	5891.9	5871.3	5862.0	5811.4	5797.9	5779.0	5759.9	5915.2	
G29.0	5854.9	5830.8	5812.2	5802.0	5742.6	5736.8	5711.4	5699.3	5854.9	
G30.0	5797.6	5766.7	5752.2	5739.6	5677.4	5667.3	5647.8	5634.7	5797.6	
G31.0	5722.3	5700.4	5680.7	5673.8	5609.5	5600.1	5581.0	5568.4	5722.3	
G32.0	5666.4	5640.1	5629.2	5613.0	5543.2	5532.8	5514.4	5501.0	5666.4	
G33.0	5597.1	5562.9	5553.3	5539.6	5472.5	5464.0	5436.9	5424.3	5597.1	
G34.0	5518.8	5490.0	5471.7	5470.6	5394.7	5393.0	5366.2	5354.1	5518.8	
G35.0	5443.2	5411.7	5401.0	5390.0	5320.7	5313.0	5294.1	5281.8	5443.2	
G36.0	5374.7	5346.8	5336.9	5324.6	5244.0	5238.0	5219.9	5207.6	5374.7	

C Plane (°):0.0-360.0: 45.0
 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: 8.509 m
 Humidity: 55
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	5291.1	5266.5	5248.1	5245.7	5167.0	5162.1	5144.3	5132.3	5291.1	
G38.0	5215.5	5196.6	5180.2	5174.2	5088.7	5083.8	5065.4	5054.7	5215.5	
G39.0	5139.1	5108.7	5101.6	5088.4	5009.8	5006.2	4979.1	4970.1	5139.1	
G40.0	5069.3	5038.8	5019.7	5020.8	4920.0	4915.8	4898.3	4889.8	5069.3	
G41.0	4972.3	4947.6	4932.3	4930.6	4838.6	4833.4	4816.4	4808.2	4972.3	
G42.0	4895.6	4871.7	4855.9	4844.9	4755.0	4751.2	4732.9	4718.3	4895.6	
G43.0	4807.4	4783.8	4777.0	4761.6	4670.4	4656.1	4647.4	4632.3	4807.4	
G44.0	4719.7	4694.0	4677.2	4674.2	4582.5	4568.5	4560.3	4544.9	4719.7	
G45.0	4637.2	4604.4	4594.8	4586.6	4485.5	4478.1	4471.0	4459.5	4637.2	
G46.0	4543.6	4520.0	4515.1	4498.4	4394.5	4386.6	4380.3	4368.8	4543.6	
G47.0	4445.2	4425.2	4411.5	4405.8	4303.6	4291.3	4288.8	4268.3	4445.2	
G48.0	4351.0	4333.7	4320.3	4315.9	4209.6	4197.3	4195.4	4175.1	4351.0	
G49.0	4260.6	4234.8	4226.9	4219.5	4113.8	4091.6	4100.3	4082.2	4260.6	
G50.0	4170.7	4141.1	4132.6	4129.1	4009.1	3996.2	3995.1	3978.7	4170.7	
G51.0	4065.3	4049.4	4034.9	4035.7	3911.0	3897.3	3896.8	3880.9	4065.3	
G52.0	3972.1	3948.0	3935.1	3931.3	3811.6	3797.4	3801.2	3780.4	3972.1	
G53.0	3875.7	3847.5	3846.1	3837.6	3708.0	3699.3	3692.1	3680.1	3875.7	
G54.0	3766.9	3748.3	3734.6	3740.9	3608.3	3597.9	3591.6	3577.9	3766.9	
G55.0	3663.4	3640.1	3630.2	3636.0	3493.8	3494.4	3488.9	3466.7	3663.4	
G56.0	3556.3	3527.0	3530.0	3520.4	3388.9	3379.9	3375.8	3362.9	3556.3	
G57.0	3444.0	3425.9	3431.1	3422.3	3283.7	3273.6	3269.7	3258.2	3444.0	
G58.0	3341.2	3319.3	3314.9	3317.9	3174.1	3164.6	3162.6	3150.0	3341.2	
G59.0	3239.9	3204.3	3209.2	3206.5	3058.3	3058.0	3055.2	3032.0	3239.9	
G60.0	3121.8	3096.9	3100.2	3101.3	2947.6	2949.5	2935.0	2922.9	3121.8	
G61.0	3011.1	2990.9	2984.0	2993.9	2835.5	2839.4	2825.4	2811.4	3011.1	
G62.0	2905.4	2881.8	2874.4	2889.5	2714.5	2718.3	2716.4	2690.4	2905.4	
G63.0	2788.7	2765.4	2773.4	2762.7	2603.5	2607.4	2593.7	2579.4	2788.7	
G64.0	2666.0	2649.5	2650.6	2652.8	2489.3	2495.0	2479.7	2466.8	2666.0	
G65.0	2558.6	2541.3	2541.3	2543.3	2373.7	2370.9	2366.8	2341.9	2558.6	
G66.0	2450.4	2416.7	2434.2	2436.7	2247.9	2257.0	2241.4	2229.0	2450.4	
G67.0	2321.4	2300.3	2312.6	2307.1	2130.4	2138.6	2123.9	2114.0	2321.4	
G68.0	2204.4	2185.2	2186.6	2195.4	2003.6	2009.1	2005.8	1987.4	2204.4	
G69.0	2090.4	2062.5	2073.7	2073.7	1887.7	1892.7	1879.2	1871.8	2090.4	
G70.0	1974.0	1948.8	1958.9	1948.8	1770.5	1774.8	1763.3	1755.4	1974.0	
G71.0	1851.3	1832.7	1832.7	1835.9	1651.3	1646.7	1645.0	1626.9	1851.3	
G72.0	1732.7	1716.2	1717.3	1722.3	1522.3	1528.6	1527.2	1510.8	1732.7	
G73.0	1616.2	1585.8	1600.9	1598.2	1406.7	1413.3	1398.7	1394.1	1616.2	

C Plane (°):0.0-360.0: 45.0
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: 8.509 m
Humidity: 55
Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	1488.0	1470.2	1472.7	1485.3	1291.6	1298.2	1283.4	1265.1	1488.0	
G75.0	1372.4	1355.4	1360.4	1369.7	1164.8	1170.5	1168.1	1150.3	1372.4	
G76.0	1260.7	1231.6	1248.9	1248.9	1050.8	1057.1	1043.7	1039.6	1260.7	
G77.0	1132.7	1118.5	1132.7	1134.1	938.2	944.8	933.0	926.7	1132.7	
G78.0	1023.2	1007.8	1008.9	1025.1	818.0	823.7	824.8	809.8	1023.2	
G79.0	913.0	888.1	900.4	905.1	710.0	714.4	717.7	702.4	913.0	
G80.0	804.3	781.8	793.6	796.3	606.8	610.1	604.3	599.9	804.3	
G81.0	690.3	675.3	680.2	686.8	506.5	500.5	505.4	491.5	690.3	
G82.0	591.2	573.6	581.3	579.4	410.9	405.7	409.5	398.6	591.2	
G83.0	485.4	470.6	478.6	481.9	322.7	318.6	322.1	310.1	485.4	
G84.0	394.8	387.1	388.7	393.9	242.2	238.1	241.6	231.8	394.8	
G85.0	309.8	297.8	303.5	311.2	164.4	161.4	164.1	156.4	309.8	
G86.0	233.9	219.7	228.2	230.1	104.6	102.4	104.9	98.6	233.9	
G87.0	161.4	155.3	157.2	164.9	57.0	55.3	57.8	53.1	161.4	
G88.0	106.8	100.5	104.1	110.4	23.6	20.8	23.0	22.5	106.8	
G89.0	65.2	59.7	63.8	64.7	7.1	6.8	8.2	7.4	65.2	
G90.0	37.5	35.1	37.3	38.1	2.2	3.3	4.4	4.4	37.5	
G91.0	23.0	23.0	23.3	24.9	1.4	2.7	3.8	3.8	23.0	
G92.0	19.5	20.0	21.1	21.4	1.4	2.5	3.6	3.6	19.5	
G93.0	17.5	18.1	19.2	19.7	1.4	2.7	3.8	3.8	17.5	
G94.0	15.9	16.7	17.5	17.8	1.6	3.3	4.1	4.1	15.9	
G95.0	15.3	15.6	16.7	17.0	2.2	3.8	4.4	4.4	15.3	
G96.0	14.8	14.8	15.9	15.9	2.5	4.1	4.7	4.9	14.8	
G97.0	14.0	14.8	15.1	15.3	2.7	4.4	5.2	5.2	14.0	
G98.0	14.2	14.8	15.3	14.8	3.0	4.7	5.5	5.5	14.2	
G99.0	14.2	14.8	15.6	15.3	3.3	4.9	5.8	5.8	14.2	
G100.0	14.2	15.1	15.3	15.6	3.3	4.9	6.3	5.8	14.2	
G101.0	14.5	15.6	15.9	15.6	3.8	5.5	6.3	6.3	14.5	
G102.0	15.1	15.9	15.9	15.9	4.1	6.0	6.8	6.6	15.1	
G103.0	15.3	16.2	16.4	16.4	4.7	6.0	6.8	6.8	15.3	
G104.0	15.9	16.4	17.3	16.4	4.9	6.3	7.1	7.1	15.9	
G105.0	16.4	17.0	17.5	17.3	4.9	6.6	7.4	7.1	16.4	
G106.0	16.7	17.5	17.8	17.5	5.2	6.3	7.4	7.7	16.7	
G107.0	17.3	17.8	17.8	18.1	5.5	6.8	7.9	7.7	17.3	
G108.0	17.5	18.4	18.4	18.4	5.8	7.1	8.2	7.9	17.5	
G109.0	18.1	18.6	18.6	18.6	6.0	7.4	8.2	7.9	18.1	
G110.0	18.6	19.2	19.2	18.4	6.3	7.7	8.5	8.2	18.6	

C Plane (°):0.0-360.0: 45.0
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: 8.509 m
Humidity: 55
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G111.0	18.9	19.5	19.2	19.2	6.3	7.9	8.2	8.2	18.9	
G112.0	18.4	19.7	20.0	19.5	6.8	8.2	8.8	8.5	18.4	
G113.0	18.9	20.3	20.3	20.0	7.1	7.9	9.0	8.5	18.9	
G114.0	19.2	20.3	20.3	20.3	7.1	7.9	9.0	8.8	19.2	
G115.0	19.5	20.5	20.5	20.5	7.4	8.2	8.8	9.0	19.5	
G116.0	19.5	20.8	20.8	21.1	7.7	8.5	9.3	9.3	19.5	
G117.0	19.7	21.4	21.6	21.4	7.7	8.8	9.6	9.6	19.7	
G118.0	20.3	21.4	21.6	21.1	7.7	8.8	9.6	9.6	20.3	
G119.0	20.5	21.6	21.9	21.6	7.9	8.8	9.3	9.6	20.5	
G120.0	20.8	21.9	22.5	22.2	7.9	9.0	9.9	9.9	20.8	
G121.0	20.8	22.2	22.7	21.9	8.2	9.0	9.9	10.4	20.8	
G122.0	21.4	22.5	22.7	22.2	8.2	9.6	10.1	10.4	21.4	
G123.0	21.4	22.7	22.7	22.7	8.5	9.6	10.4	10.7	21.4	
G124.0	21.6	22.7	23.0	22.7	8.8	9.6	11.0	10.7	21.6	
G125.0	21.6	22.7	23.0	23.0	8.8	10.1	11.2	11.0	21.6	
G126.0	21.9	22.7	23.0	23.0	9.0	10.7	11.2	11.0	21.9	
G127.0	21.6	22.5	23.0	22.7	9.6	10.7	11.2	11.5	21.6	
G128.0	21.9	22.5	23.0	22.7	9.9	11.0	11.2	11.5	21.9	
G129.0	21.9	22.5	23.0	22.7	10.1	11.0	11.8	11.8	21.9	
G130.0	21.9	22.7	23.0	23.0	10.1	11.0	12.1	12.1	21.9	
G131.0	21.6	22.7	22.7	23.0	10.4	11.5	12.3	12.6	21.6	
G132.0	21.9	22.7	22.7	23.0	10.4	11.8	12.3	12.6	21.9	
G133.0	21.9	22.5	22.5	22.7	10.7	11.8	12.3	12.6	21.9	
G134.0	21.4	22.2	22.5	23.0	11.2	12.1	12.6	12.3	21.4	
G135.0	21.6	22.2	22.2	23.0	11.2	12.3	13.1	12.9	21.6	
G136.0	21.4	21.9	22.5	22.5	12.1	12.6	13.4	12.9	21.4	
G137.0	21.6	21.9	22.5	23.0	12.1	12.6	13.7	13.1	21.6	
G138.0	21.4	21.6	21.9	22.7	12.1	13.1	14.2	14.0	21.4	
G139.0	21.6	21.4	21.6	22.2	12.3	12.9	14.2	14.0	21.6	
G140.0	21.9	21.4	21.6	21.9	12.3	13.1	14.5	13.7	21.9	
G141.0	21.9	21.1	21.6	21.9	12.6	13.4	14.8	13.1	21.9	
G142.0	21.6	20.8	21.6	21.9	12.6	14.0	15.1	14.0	21.6	
G143.0	21.9	20.5	21.4	21.9	12.6	14.0	15.1	14.2	21.9	
G144.0	22.2	21.1	21.4	21.6	12.9	14.0	15.3	14.5	22.2	
G145.0	21.6	20.3	21.6	21.6	13.4	13.7	15.6	14.5	21.6	
G146.0	21.6	20.3	21.6	21.4	13.7	14.0	15.9	14.8	21.6	
G147.0	21.4	20.0	21.4	21.1	13.7	14.5	15.9	14.8	21.4	

C Plane (°):0.0-360.0: 45.0
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: 8.509 m
Humidity: 55
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	21.4	20.0	21.4	21.1	13.7	14.5	15.9	15.3	21.4	
G149.0	21.1	19.7	21.1	20.8	13.7	14.8	16.2	15.3	21.1	
G150.0	20.8	19.7	21.1	20.8	14.0	15.1	16.2	15.3	20.8	
G151.0	20.8	19.7	21.1	20.8	14.2	15.3	16.2	15.6	20.8	
G152.0	21.1	19.2	21.1	20.5	14.5	15.6	16.2	15.9	21.1	
G153.0	20.5	19.5	20.5	20.5	14.8	15.9	16.4	15.9	20.5	
G154.0	20.3	18.9	20.8	20.5	15.1	15.9	16.4	16.2	20.3	
G155.0	19.5	18.9	20.8	20.3	15.6	15.9	16.2	16.7	19.5	
G156.0	19.7	18.6	20.3	20.0	15.6	15.9	16.2	17.0	19.7	
G157.0	19.5	18.6	20.0	19.7	15.6	16.2	16.4	17.3	19.5	
G158.0	19.5	18.6	20.0	19.5	15.6	15.9	16.7	17.0	19.5	
G159.0	19.5	18.1	19.7	19.2	15.9	15.9	17.0	17.3	19.5	
G160.0	19.2	17.8	19.2	18.9	16.4	15.9	17.0	16.7	19.2	
G161.0	19.2	16.7	18.4	18.9	16.4	15.9	17.3	16.4	19.2	
G162.0	18.9	17.0	18.1	18.9	16.4	15.6	17.3	16.4	18.9	
G163.0	18.6	16.7	17.8	18.6	17.0	15.9	17.3	15.9	18.6	
G164.0	18.9	16.4	17.8	18.6	16.7	16.4	17.5	16.2	18.9	
G165.0	18.6	16.4	17.8	18.9	17.0	16.4	17.8	16.4	18.6	
G166.0	18.1	16.7	17.5	18.4	17.0	16.7	18.1	16.4	18.1	
G167.0	18.1	16.7	17.8	17.8	17.5	16.7	18.1	17.0	18.1	
G168.0	18.4	16.7	17.8	18.1	18.1	17.0	17.8	17.3	18.4	
G169.0	18.4	16.4	18.1	17.8	17.8	17.0	17.8	17.8	18.4	
G170.0	18.4	16.7	17.8	17.8	17.5	17.3	17.8	17.5	18.4	
G171.0	18.1	16.7	17.5	17.8	17.8	17.3	17.8	17.5	18.1	
G172.0	18.1	16.7	17.3	17.3	18.1	17.0	17.5	17.8	18.1	
G173.0	18.1	16.7	17.3	17.8	18.1	17.5	17.3	17.3	18.1	
G174.0	17.5	17.3	17.0	17.5	18.4	17.5	17.8	17.8	17.5	
G175.0	17.8	17.3	17.3	17.5	18.1	17.3	17.5	17.8	17.8	
G176.0	17.5	17.3	17.8	17.3	17.3	17.0	17.3	18.1	17.5	
G177.0	17.0	17.5	17.8	17.0	17.5	17.3	17.5	18.1	17.0	
G178.0	17.3	17.8	16.7	17.5	17.8	17.0	17.8	18.1	17.3	
G179.0	17.0	17.8	17.5	17.8	17.8	17.3	18.1	18.4	17.0	
G180.0	16.7	18.1	17.5	17.5	17.3	17.3	18.1	18.6	16.7	

C Plane (°):0.0-360.0: 45.0
 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: 8.509 m
 Humidity: 55
 Inspector: