

Report No.: TH-548A

Test Time: 2019/11/23 09:40

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: LH041

Current: 0.077 A

Power Factor: 0.957

Voltage: 119.9 V

Power: 8.89 W

Photometric Results

CIE Class: Direct

Measurement Flux: 390.9 lm

Downward Ratio: 93%

Horizontal Diffuse Angle(50%): H109

Vertical Diffuse Angle(50%): V77.4

Luminaire Efficacy Rating (LER): 44.02

Max. Intensity: 181.27 cd

S/MH(C0/C180): 1.24

Total Rated Lamp Lumens: 390.9 lm

Efficiency: 100%

Upward Ratio: 7%

Central Intensity: 124.9 cd

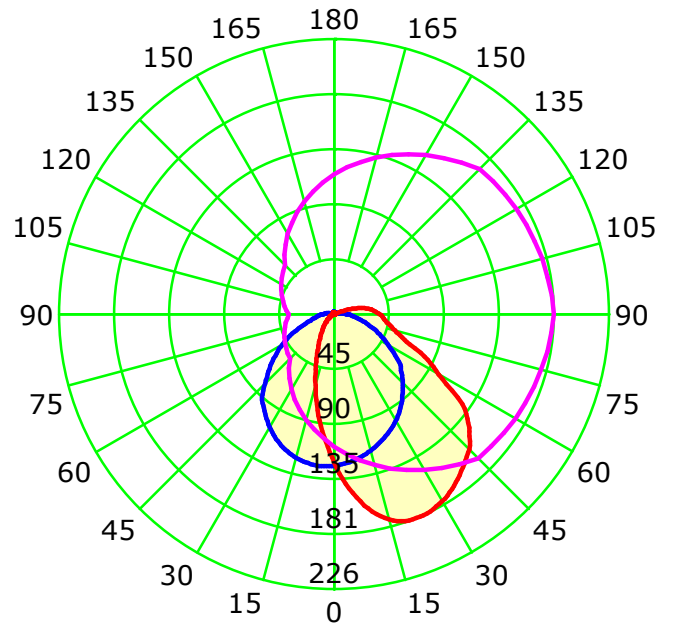
Pos of Max. Intensity: H90 V23

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 89.4°

— C0-C180 — C90-C270 — G23

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

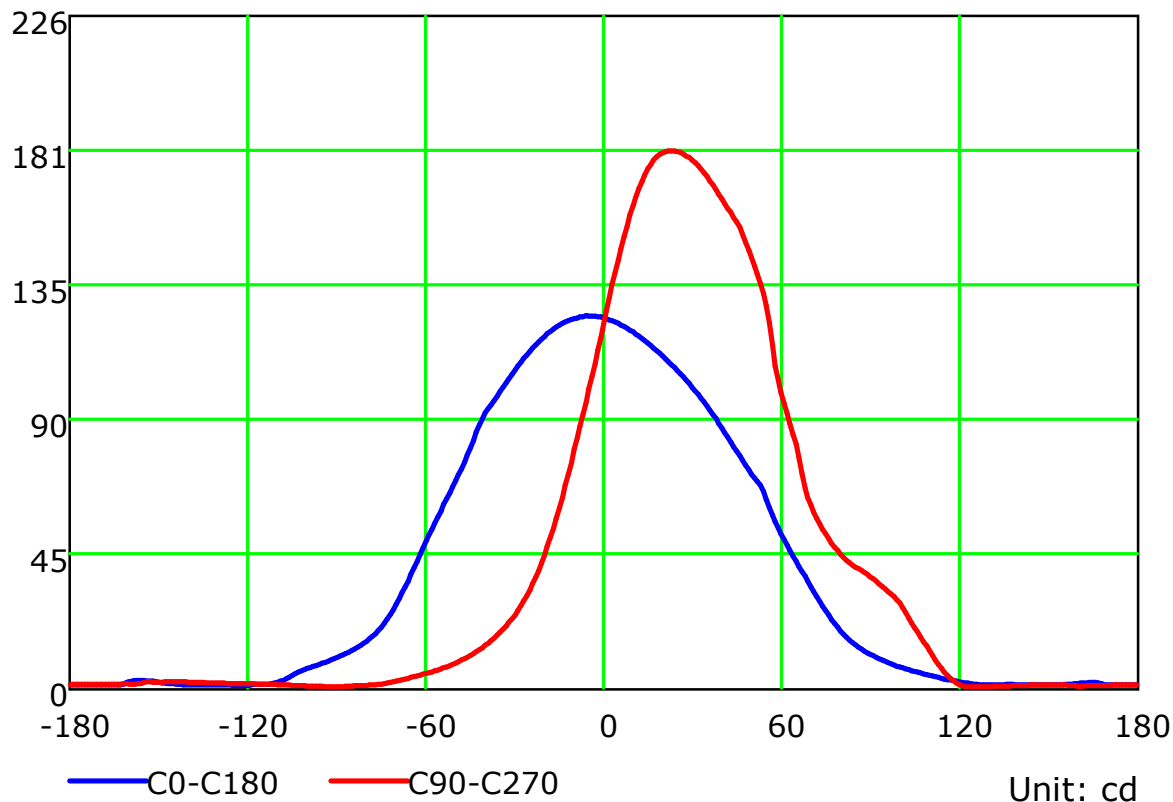
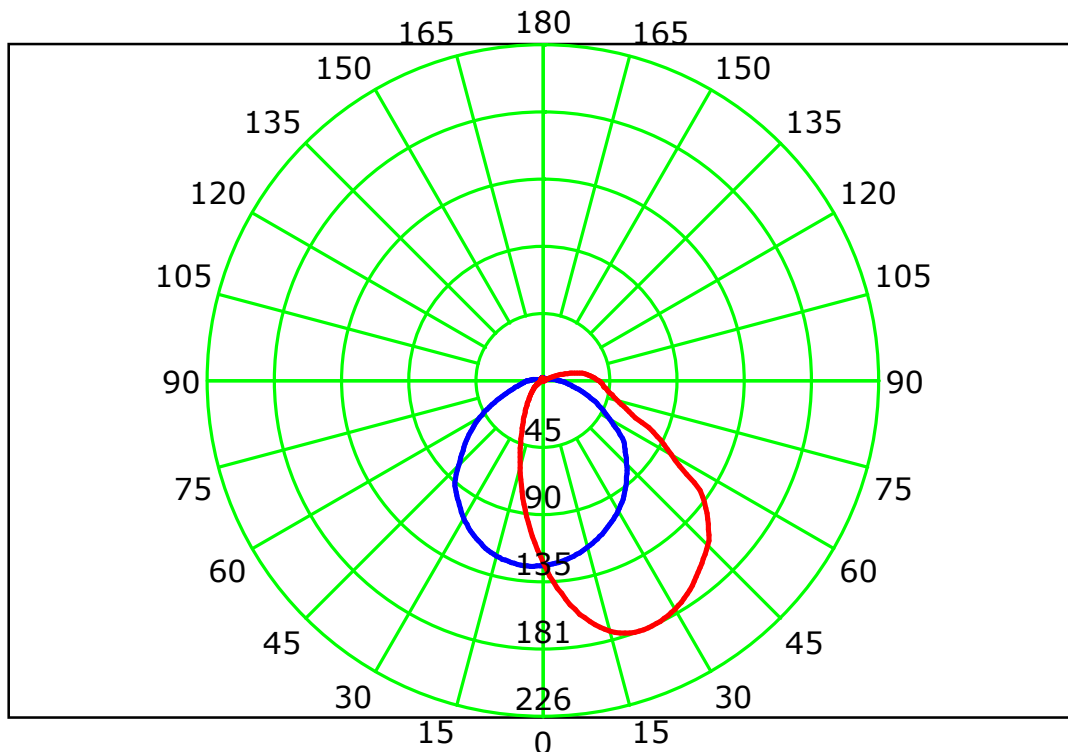
Test Device: GPM-1800B

Distance: 8.499 m

Humidity: 65

Inspector:

Luminous Intensity Distribution Curve



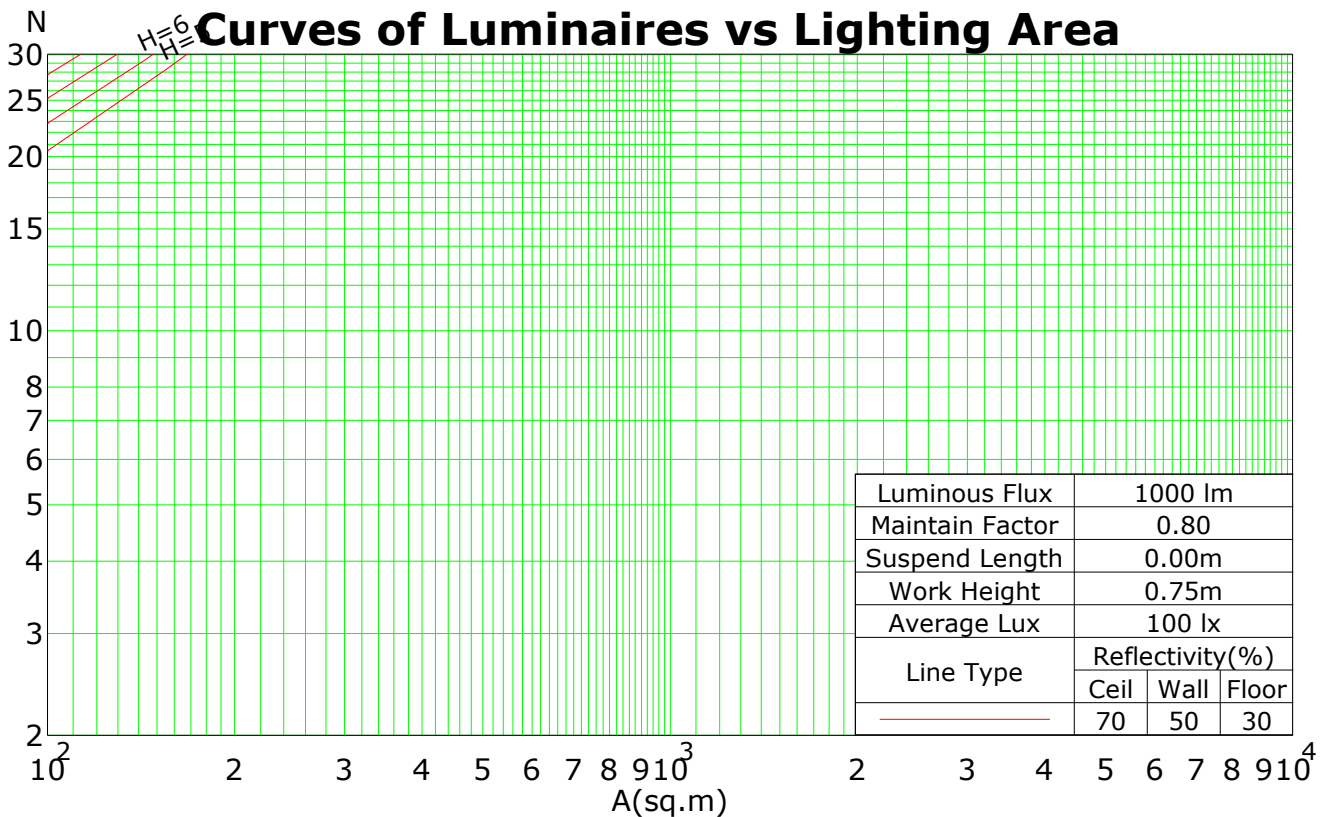
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.499 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	106	101	96	92	102	98	93	90	92	89	85	87	84	81	82	80	78	75
2	96	87	80	74	93	85	78	73	80	75	70	76	71	67	72	68	65	62
3	88	77	68	62	84	75	67	61	70	64	59	67	61	57	63	59	55	52
4	80	68	59	52	77	66	58	51	63	55	50	59	53	48	56	51	47	45
5	74	61	52	45	71	59	51	44	56	49	43	53	47	42	51	45	41	38
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	40	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	37	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	40	34	29	39	33	29	27
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	22

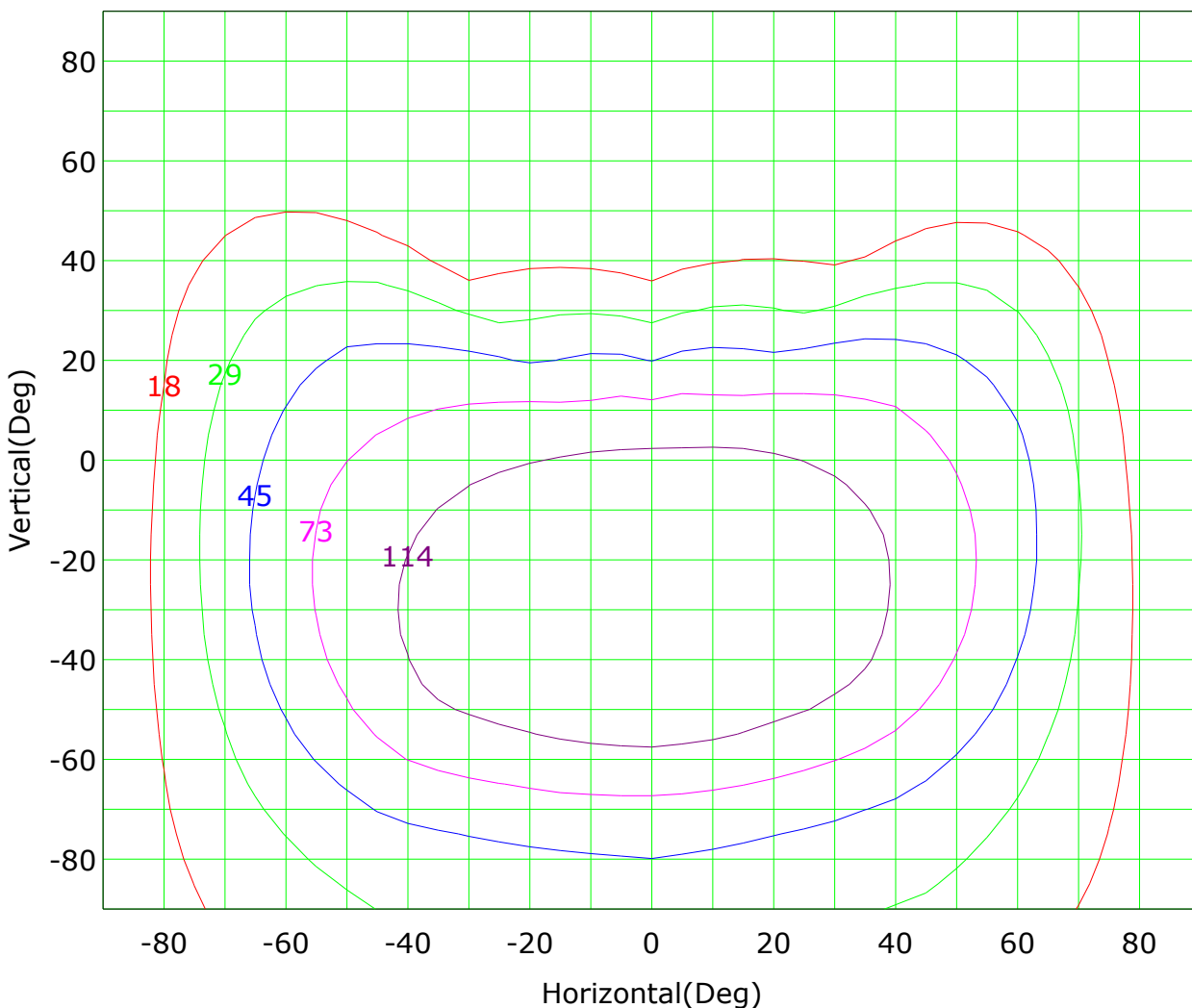
Spacing Criteria (0-180): 1.24
 Spacing Criteria (90-270): 1.23
 Spacing Criteria (Diagonal): 1.35



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: 8.499 m
 Humidity: 65
 Inspector:

Isocandela (rectangle)



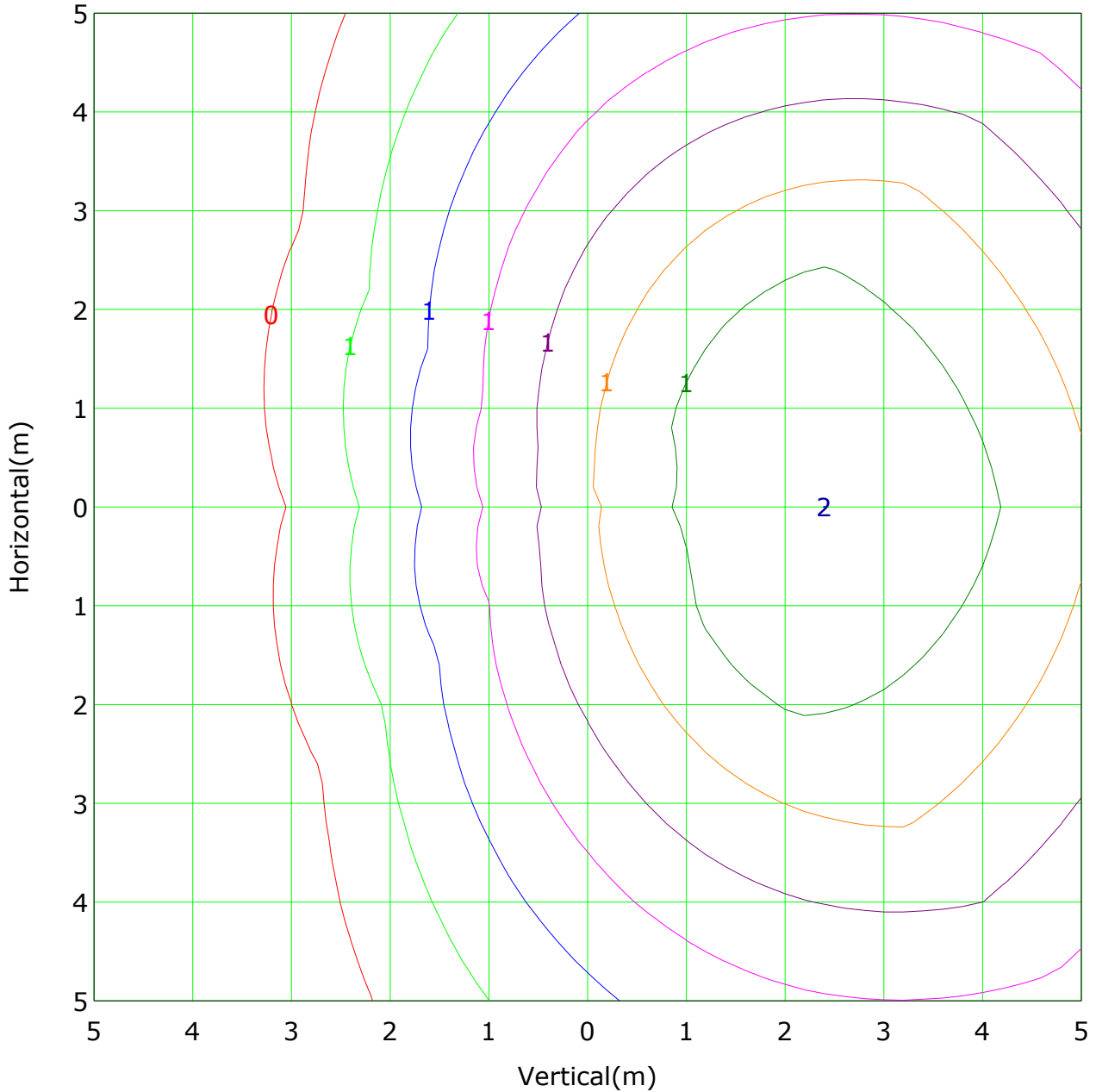
Imax (100%): 181 cd

— (10%):	18 cd	— (16%):	29 cd
— (25%):	45 cd	— (40%):	73 cd
— (63%):	114 cd	— (100%):	181 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: 8.499 m
Humidity: 65
Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 1.6 lx

(30%): 0.5 lx	(40%): 0.6 lx
(50%): 0.8 lx	(60%): 0.9 lx
(70%): 1.1 lx	(80%): 1.3 lx
(90%): 1.4 lx	(100%): 1.6 lx
(120%): 1.9 lx	(150%): 2.4 lx

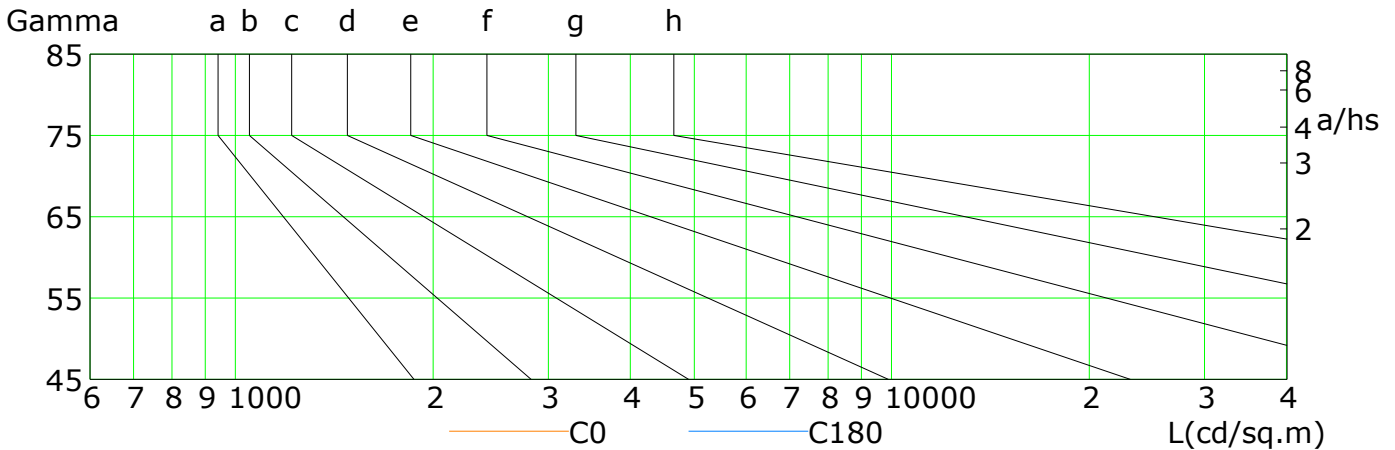
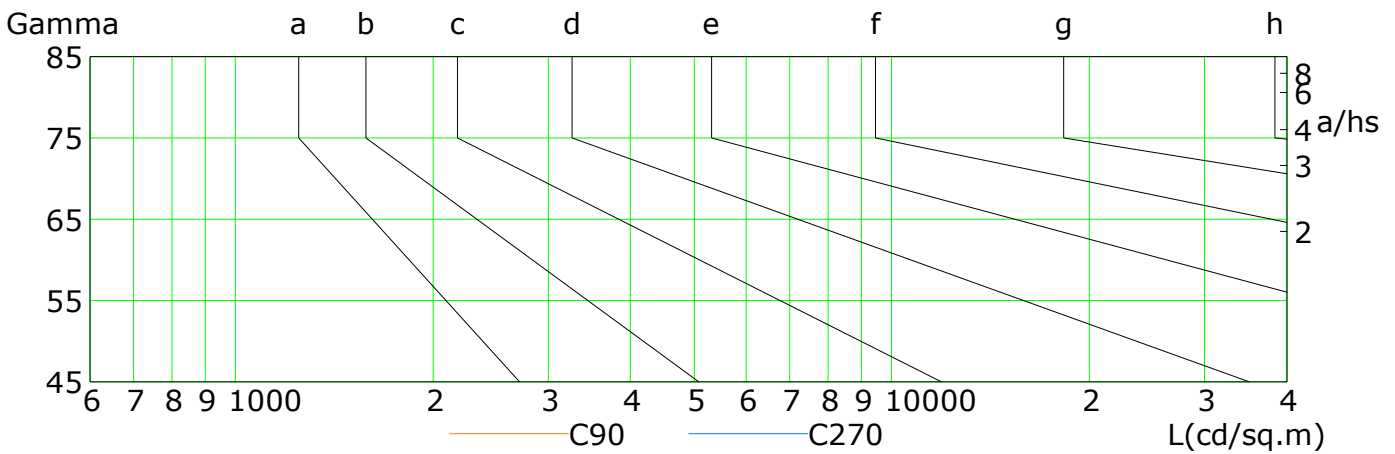
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

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

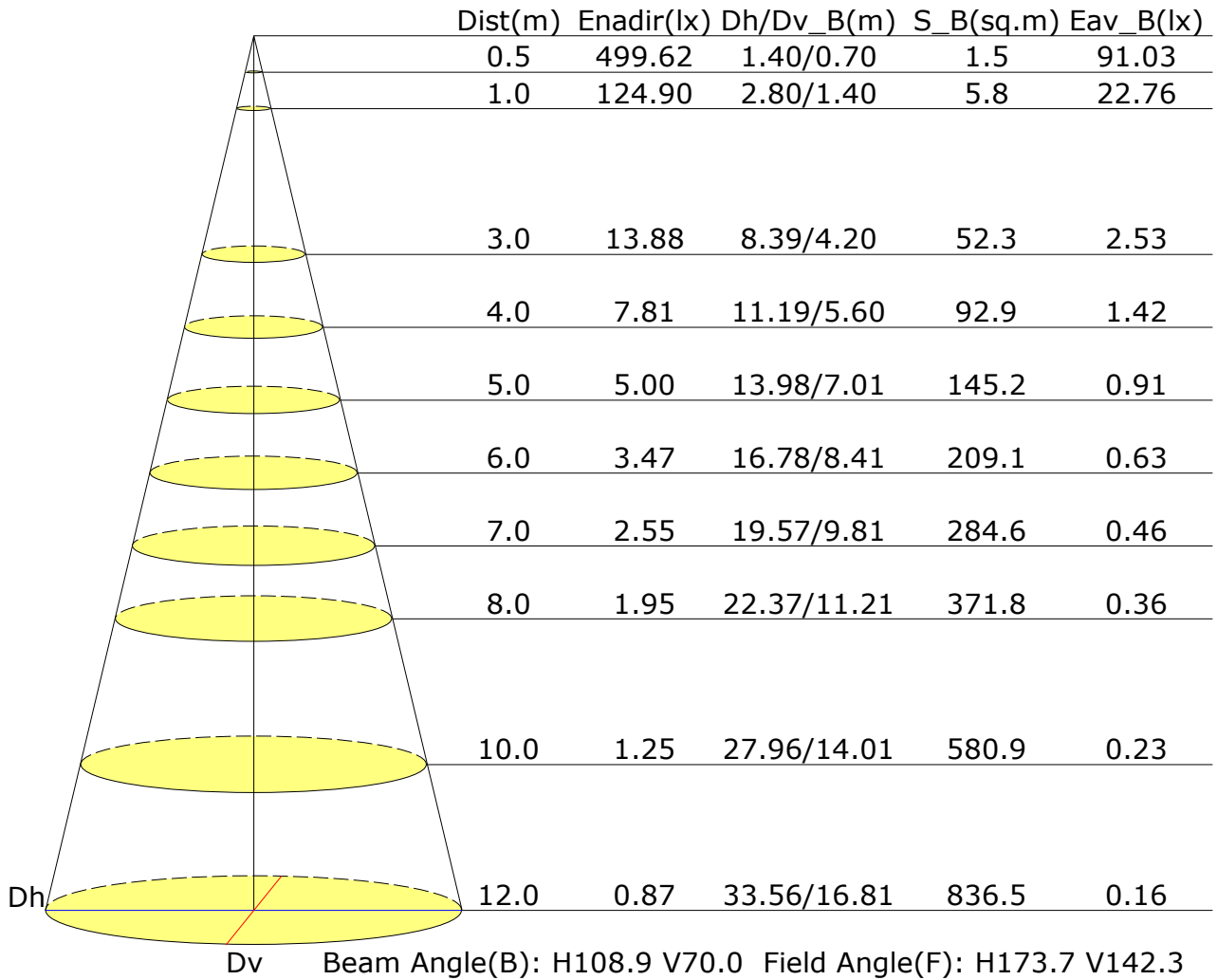


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	80	72	64	52	43	34	26	19	15
C90	157	145	129	100	82	62	52	45	41
C180	81	70	60	50	38	28	21	16	13
C270	11	9	7	5	4	2	2	1	1

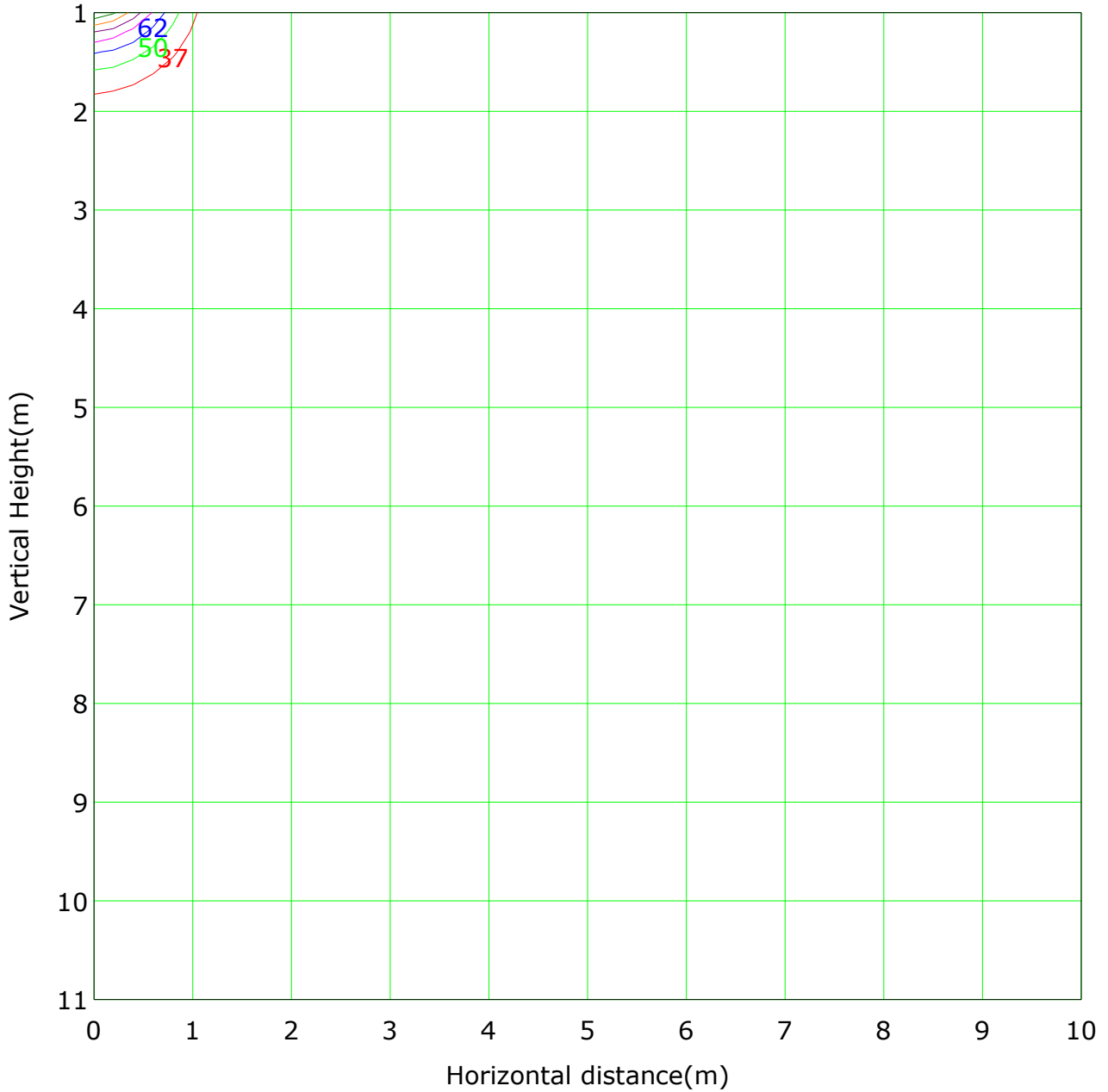
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

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

Illuminance at a Distance



Vertical IsoLux Plot

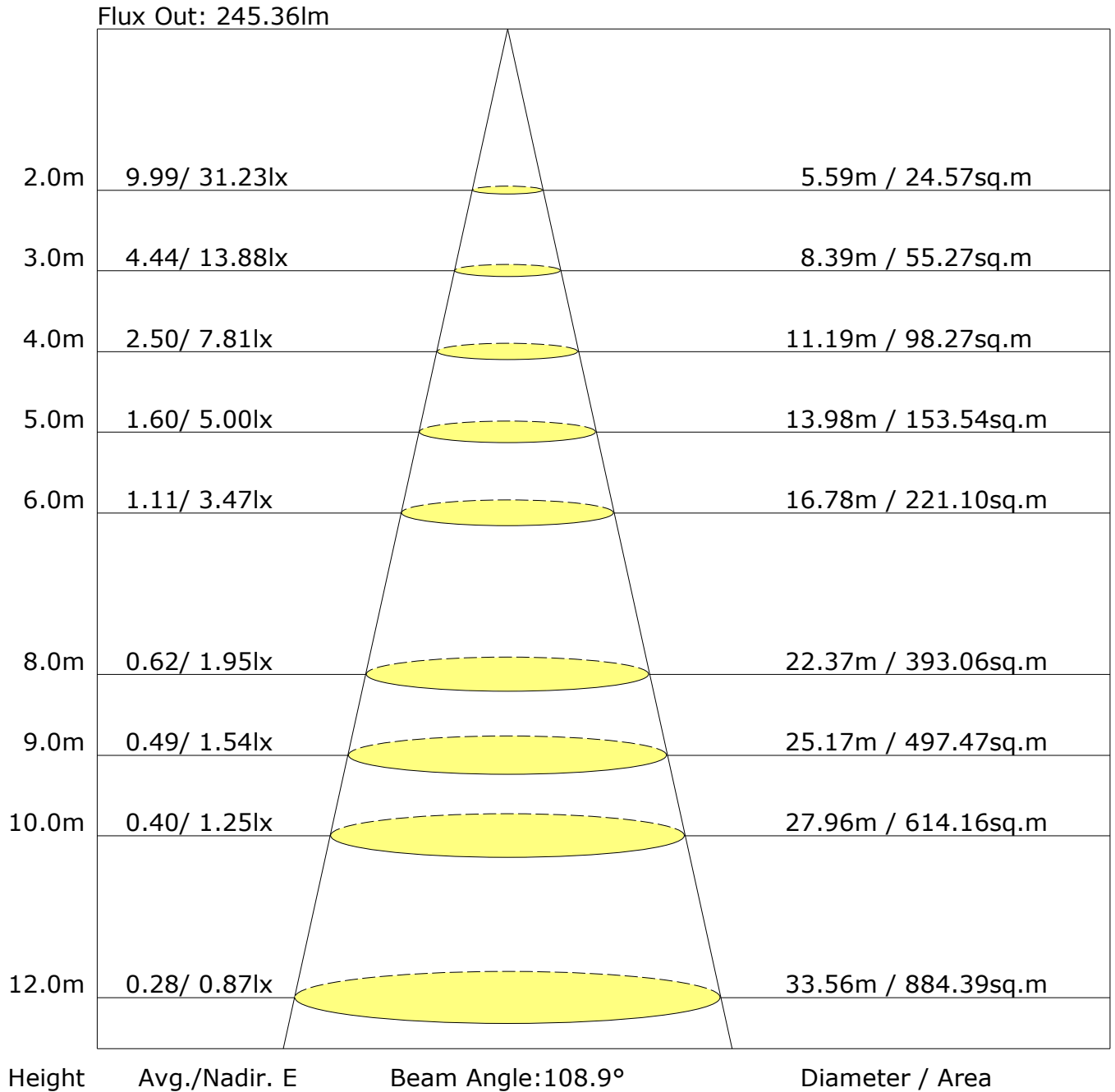


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 124.9 lx
— (30%): 37.5 lx	— (40%): 50.0 lx	
— (50%): 62.5 lx	— (60%): 74.9 lx	
— (70%): 87.4 lx	— (80%): 99.9 lx	
— (90%): 112.4 lx	— (100%): 124.9 lx	
— (120%): 149.9 lx	— (150%): 187.4 lx	

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: 8.499 m
Humidity: 65
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 391lm ($8\log(F/F_0) = -3.3$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	123.9	0.1	0.1	0.03	0.03
1.0-2.0	123.8	0.4	0.5	0.09	0.12
2.0-3.0	123.7	0.6	1.1	0.15	0.27
3.0-4.0	123.6	0.8	1.9	0.21	0.48
4.0-5.0	123.5	1.1	3.0	0.27	0.76
5.0-6.0	123.3	1.3	4.3	0.33	1.09
6.0-7.0	123.1	1.5	5.8	0.39	1.48
7.0-8.0	122.8	1.8	7.5	0.45	1.93
8.0-9.0	122.6	2.0	9.5	0.51	2.44
9.0-10.0	122.2	2.2	11.7	0.57	3.00
10.0-11.0	121.8	2.4	14.2	0.62	3.63
11.0-12.0	121.2	2.7	16.8	0.68	4.30
12.0-13.0	120.7	2.9	19.7	0.73	5.04
13.0-14.0	120.1	3.1	22.8	0.79	5.82
14.0-15.0	119.4	3.3	26.0	0.84	6.66
15.0-16.0	118.6	3.5	29.5	0.89	7.55
16.0-17.0	117.8	3.7	33.2	0.94	8.49
17.0-18.0	117.0	3.9	37.0	0.99	9.48
18.0-19.0	116.1	4.0	41.1	1.03	10.51
19.0-20.0	115.1	4.2	45.3	1.08	11.59
20.0-21.0	114.0	4.4	49.7	1.12	12.71
21.0-22.0	113.0	4.5	54.2	1.16	13.87
22.0-23.0	111.9	4.7	58.9	1.20	15.07
23.0-24.0	110.8	4.8	63.8	1.24	16.31
24.0-25.0	109.6	5.0	68.7	1.28	17.58
25.0-26.0	108.5	5.1	73.9	1.31	18.89
26.0-27.0	107.3	5.2	79.1	1.34	20.24
27.0-28.0	106.0	5.4	84.5	1.37	21.61
28.0-29.0	104.8	5.5	90.0	1.40	23.01
29.0-30.0	103.6	5.6	95.5	1.43	24.44
30.0-31.0	102.3	5.7	101.2	1.46	25.90
31.0-32.0	101.0	5.8	107.0	1.48	27.38
32.0-33.0	99.6	5.9	112.9	1.50	28.88
33.0-34.0	98.3	6.0	118.8	1.52	30.41
34.0-35.0	97.0	6.0	124.9	1.54	31.95
35.0-36.0	95.6	6.1	131.0	1.56	33.50

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: 8.499 m
Humidity: 65
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	94.2	6.1	137.1	1.57	35.08
37.0-38.0	92.8	6.2	143.3	1.59	36.66
38.0-39.0	91.5	6.2	149.5	1.60	38.26
39.0-40.0	90.1	6.3	155.8	1.61	39.87
40.0-41.0	88.6	6.3	162.1	1.61	41.48
41.0-42.0	87.1	6.3	168.5	1.62	43.10
42.0-43.0	85.6	6.3	174.8	1.62	44.72
43.0-44.0	84.0	6.3	181.2	1.62	46.35
44.0-45.0	82.4	6.3	187.5	1.62	47.96
45.0-46.0	80.7	6.3	193.8	1.62	49.58
46.0-47.0	79.1	6.3	200.1	1.61	51.19
47.0-48.0	77.4	6.3	206.3	1.60	52.79
48.0-49.0	75.8	6.2	212.6	1.59	54.38
49.0-50.0	74.2	6.2	218.8	1.58	55.96
50.0-51.0	72.5	6.1	224.9	1.57	57.53
51.0-52.0	70.7	6.1	231.0	1.55	59.09
52.0-53.0	68.9	6.0	237.0	1.53	60.62
53.0-54.0	67.0	5.9	242.9	1.51	62.13
54.0-55.0	65.0	5.8	248.7	1.48	63.62
55.0-56.0	62.8	5.7	254.3	1.45	65.07
56.0-57.0	60.3	5.5	259.9	1.41	66.48
57.0-58.0	57.7	5.3	265.2	1.37	67.84
58.0-59.0	55.3	5.2	270.4	1.32	69.17
59.0-60.0	53.1	5.0	275.4	1.28	70.45
60.0-61.0	50.9	4.9	280.2	1.24	71.69
61.0-62.0	48.8	4.7	284.9	1.20	72.90
62.0-63.0	46.7	4.5	289.5	1.16	74.06
63.0-64.0	44.6	4.4	293.9	1.12	75.18
64.0-65.0	42.6	4.2	298.1	1.08	76.26
65.0-66.0	40.6	4.1	302.1	1.04	77.30
66.0-67.0	38.5	3.9	306.0	0.99	78.29
67.0-68.0	36.4	3.7	309.7	0.94	79.23
68.0-69.0	34.5	3.5	313.2	0.90	80.13
69.0-70.0	32.7	3.4	316.6	0.86	80.99
70.0-71.0	31.1	3.2	319.8	0.82	81.82
71.0-72.0	29.6	3.1	322.9	0.79	82.60

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: 8.499 m
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	28.2	2.9	325.8	0.75	83.36
73.0-74.0	26.9	2.8	328.7	0.72	84.08
74.0-75.0	25.7	2.7	331.4	0.69	84.77
75.0-76.0	24.6	2.6	334.0	0.67	85.44
76.0-77.0	23.5	2.5	336.5	0.64	86.08
77.0-78.0	22.6	2.4	338.9	0.62	86.70
78.0-79.0	21.7	2.3	341.2	0.60	87.30
79.0-80.0	20.9	2.3	343.5	0.58	87.88
80.0-81.0	20.2	2.2	345.7	0.56	88.43
81.0-82.0	19.5	2.1	347.8	0.54	88.98
82.0-83.0	18.8	2.0	349.8	0.52	89.50
83.0-84.0	18.3	2.0	351.8	0.51	90.01
84.0-85.0	17.7	1.9	353.8	0.49	90.50
85.0-86.0	17.2	1.9	355.6	0.48	90.98
86.0-87.0	16.7	1.8	357.5	0.47	91.45
87.0-88.0	16.3	1.8	359.3	0.46	91.91
88.0-89.0	15.8	1.7	361.0	0.44	92.35
89.0-90.0	15.4	1.7	362.7	0.43	92.79
90.0-91.0	15.0	1.6	364.3	0.42	93.21
91.0-92.0	14.6	1.6	365.9	0.41	93.61
92.0-93.0	14.1	1.5	367.5	0.40	94.01
93.0-94.0	13.7	1.5	369.0	0.38	94.40
94.0-95.0	13.3	1.5	370.4	0.37	94.77
95.0-96.0	12.9	1.4	371.8	0.36	95.13
96.0-97.0	12.5	1.4	373.2	0.35	95.48
97.0-98.0	12.0	1.3	374.5	0.34	95.81
98.0-99.0	11.5	1.2	375.8	0.32	96.13
99.0-100.0	10.8	1.2	376.9	0.30	96.43
100.0-101.0	10.1	1.1	378.0	0.28	96.71
101.0-102.0	9.3	1.0	379.0	0.26	96.96
102.0-103.0	8.5	0.9	379.9	0.23	97.20
103.0-104.0	7.7	0.8	380.7	0.21	97.41
104.0-105.0	6.9	0.7	381.5	0.19	97.59
105.0-106.0	6.2	0.7	382.1	0.17	97.76
106.0-107.0	5.5	0.6	382.7	0.15	97.91
107.0-108.0	4.8	0.5	383.2	0.13	98.04

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: 8.499 m
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	4.2	0.4	383.6	0.11	98.15
109.0-110.0	3.7	0.4	384.0	0.10	98.25
110.0-111.0	3.3	0.3	384.4	0.09	98.33
111.0-112.0	2.9	0.3	384.7	0.08	98.41
112.0-113.0	2.6	0.3	384.9	0.07	98.48
113.0-114.0	2.4	0.2	385.2	0.06	98.54
114.0-115.0	2.2	0.2	385.4	0.06	98.59
115.0-116.0	2.0	0.2	385.6	0.05	98.64
116.0-117.0	1.9	0.2	385.8	0.05	98.69
117.0-118.0	1.8	0.2	385.9	0.04	98.74
118.0-119.0	1.7	0.2	386.1	0.04	98.78
119.0-120.0	1.6	0.1	386.3	0.04	98.82
120.0-121.0	1.4	0.1	386.4	0.03	98.85
121.0-122.0	1.3	0.1	386.5	0.03	98.88
122.0-123.0	1.2	0.1	386.6	0.03	98.91
123.0-124.0	1.2	0.1	386.7	0.03	98.94
124.0-125.0	1.2	0.1	386.8	0.03	98.96
125.0-126.0	1.2	0.1	386.9	0.03	98.99
126.0-127.0	1.2	0.1	387.0	0.03	99.02
127.0-128.0	1.2	0.1	387.1	0.03	99.04
128.0-129.0	1.2	0.1	387.3	0.03	99.07
129.0-130.0	1.3	0.1	387.4	0.03	99.10
130.0-131.0	1.3	0.1	387.5	0.03	99.13
131.0-132.0	1.3	0.1	387.6	0.03	99.16
132.0-133.0	1.4	0.1	387.7	0.03	99.18
133.0-134.0	1.4	0.1	387.8	0.03	99.21
134.0-135.0	1.5	0.1	387.9	0.03	99.24
135.0-136.0	1.5	0.1	388.0	0.03	99.27
136.0-137.0	1.5	0.1	388.1	0.03	99.30
137.0-138.0	1.6	0.1	388.3	0.03	99.33
138.0-139.0	1.6	0.1	388.4	0.03	99.36
139.0-140.0	1.6	0.1	388.5	0.03	99.39
140.0-141.0	1.6	0.1	388.6	0.03	99.42
141.0-142.0	1.6	0.1	388.7	0.03	99.45
142.0-143.0	1.7	0.1	388.8	0.03	99.47
143.0-144.0	1.7	0.1	388.9	0.03	99.50

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: 8.499 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	1.7	0.1	389.0	0.03	99.53
145.0-146.0	1.7	0.1	389.2	0.03	99.56
146.0-147.0	1.7	0.1	389.3	0.03	99.59
147.0-148.0	1.7	0.1	389.4	0.03	99.61
148.0-149.0	1.7	0.1	389.5	0.03	99.64
149.0-150.0	1.7	0.1	389.6	0.02	99.66
150.0-151.0	1.8	0.1	389.7	0.02	99.69
151.0-152.0	1.8	0.1	389.7	0.02	99.71
152.0-153.0	1.8	0.1	389.8	0.02	99.73
153.0-154.0	1.8	0.1	389.9	0.02	99.76
154.0-155.0	1.8	0.1	390.0	0.02	99.78
155.0-156.0	1.8	0.1	390.1	0.02	99.80
156.0-157.0	1.7	0.1	390.2	0.02	99.82
157.0-158.0	1.7	0.1	390.2	0.02	99.84
158.0-159.0	1.7	0.1	390.3	0.02	99.85
159.0-160.0	1.6	0.1	390.4	0.02	99.87
160.0-161.0	1.6	0.1	390.4	0.01	99.88
161.0-162.0	1.5	0.1	390.5	0.01	99.90
162.0-163.0	1.4	0.0	390.5	0.01	99.91
163.0-164.0	1.4	0.0	390.6	0.01	99.92
164.0-165.0	1.4	0.0	390.6	0.01	99.93
165.0-166.0	1.4	0.0	390.6	0.01	99.94
166.0-167.0	1.3	0.0	390.7	0.01	99.95
167.0-168.0	1.3	0.0	390.7	0.01	99.96
168.0-169.0	1.3	0.0	390.7	0.01	99.96
169.0-170.0	1.2	0.0	390.8	0.01	99.97
170.0-171.0	1.2	0.0	390.8	0.01	99.98
171.0-172.0	1.2	0.0	390.8	0.01	99.98
172.0-173.0	1.3	0.0	390.8	0.00	99.98
173.0-174.0	1.3	0.0	390.8	0.00	99.99
174.0-175.0	1.3	0.0	390.8	0.00	99.99
175.0-176.0	1.3	0.0	390.9	0.00	100.00
176.0-177.0	1.3	0.0	390.9	0.00	100.00
177.0-178.0	1.3	0.0	390.9	0.00	100.00
178.0-179.0	1.3	0.0	390.9	0.00	100.00
179.0-180.0	1.3	0.0	390.9	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: 8.499 m
 Humidity: 65
 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	124.9	123.6	122.7	124.3	124.9	123.6	122.7	124.3	124.9	
G1.0	124.6	126.3	127.0	127.6	125.2	120.6	118.4	120.8	124.6	
G2.0	124.2	129.1	131.7	130.8	125.2	117.4	114.1	117.5	124.2	
G3.0	123.9	131.9	136.0	134.0	125.4	114.4	109.4	114.2	123.9	
G4.0	123.5	134.9	140.2	136.8	125.5	111.5	105.2	110.6	123.5	
G5.0	123.1	137.6	144.2	140.2	125.4	108.3	101.1	107.4	123.1	
G6.0	122.5	140.1	148.1	143.1	125.7	105.4	96.6	104.5	122.5	
G7.0	122.0	142.6	152.3	145.8	125.3	102.5	92.5	101.0	122.0	
G8.0	121.4	145.2	155.8	148.5	125.2	99.5	88.4	97.5	121.4	
G9.0	120.8	147.5	159.5	151.4	124.9	96.4	84.5	94.3	120.8	
G10.0	120.2	149.7	162.6	153.8	124.7	93.5	80.5	91.2	120.2	
G11.0	119.5	151.8	165.5	156.1	124.3	90.7	76.2	88.0	119.5	
G12.0	118.7	154.0	168.4	158.2	124.0	87.8	72.2	84.5	118.7	
G13.0	118.0	156.1	170.8	160.3	123.6	84.8	68.5	81.5	118.0	
G14.0	117.2	157.6	173.0	162.1	123.0	82.0	64.4	78.4	117.2	
G15.0	116.3	159.2	175.0	163.7	122.4	79.3	60.8	75.0	116.3	
G16.0	115.6	160.9	176.6	165.1	121.9	76.5	57.4	72.0	115.6	
G17.0	114.7	162.2	178.1	166.5	121.1	73.6	54.1	69.1	114.7	
G18.0	113.9	163.5	179.1	167.5	120.3	71.0	51.0	66.2	113.9	
G19.0	113.0	164.5	180.0	168.3	119.6	68.3	48.0	63.0	113.0	
G20.0	112.0	165.7	180.6	168.9	118.7	65.4	44.9	60.2	112.0	
G21.0	111.1	166.4	180.9	169.3	117.8	62.8	42.2	57.5	111.1	
G22.0	110.2	167.0	181.2	169.5	116.8	60.3	39.8	54.9	110.2	
G23.0	109.1	167.7	181.3	169.5	115.8	57.6	37.5	52.1	109.1	
G24.0	108.1	168.1	181.2	169.3	114.7	55.2	35.3	49.7	108.1	
G25.0	107.1	168.4	180.9	168.9	113.5	52.9	33.1	47.4	107.1	
G26.0	106.0	168.6	180.6	168.3	112.4	50.7	31.2	45.2	106.0	
G27.0	105.0	168.6	180.0	167.6	111.3	48.3	29.5	42.9	105.0	
G28.0	103.8	168.4	179.4	166.8	109.9	46.2	27.9	40.9	103.8	
G29.0	102.8	168.1	178.9	165.8	108.6	44.2	26.2	39.0	102.8	
G30.0	101.6	167.7	178.0	164.7	107.3	42.2	24.8	37.1	101.6	
G31.0	100.3	167.2	177.2	163.6	105.9	40.1	23.5	35.4	100.3	
G32.0	99.1	166.5	176.2	162.1	104.4	38.3	22.3	33.6	99.1	
G33.0	97.9	165.7	175.1	160.8	102.9	36.6	21.0	32.0	97.9	
G34.0	96.5	164.8	173.7	159.1	101.5	34.9	19.9	30.5	96.5	
G35.0	95.0	163.9	172.5	157.5	99.9	33.3	18.9	29.1	95.0	
G36.0	93.7	162.7	171.1	155.9	98.4	31.6	17.9	27.8	93.7	

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: 8.499 m
Humidity: 65
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	92.3	161.5	169.6	154.1	96.9	30.2	17.0	26.4	92.3	
G38.0	90.9	160.2	168.1	152.3	95.6	28.8	16.1	25.2	90.9	
G39.0	89.2	158.6	166.5	150.6	94.4	27.4	15.3	24.2	89.2	
G40.0	87.6	157.1	165.0	148.5	92.8	26.2	14.5	23.1	87.6	
G41.0	86.2	155.3	163.5	146.6	91.0	25.0	13.7	22.0	86.2	
G42.0	84.7	153.3	161.8	144.5	88.9	23.8	13.0	21.0	84.7	
G43.0	83.1	151.3	160.4	142.2	86.4	22.8	12.4	20.1	83.1	
G44.0	81.5	149.4	158.8	139.2	83.7	21.8	11.7	19.3	81.5	
G45.0	79.9	147.3	157.3	136.5	81.1	20.9	11.1	18.4	79.9	
G46.0	78.4	145.0	155.5	133.8	78.6	19.9	10.5	17.6	78.4	
G47.0	76.9	142.9	153.1	131.1	76.3	19.1	10.0	16.8	76.9	
G48.0	75.3	140.5	150.2	128.7	74.0	18.3	9.5	16.0	75.3	
G49.0	73.6	138.0	147.6	126.6	72.0	17.5	9.0	15.4	73.6	
G50.0	72.2	135.6	145.3	123.9	70.0	16.7	8.5	14.7	72.2	
G51.0	70.9	132.7	142.3	120.9	67.8	16.1	8.1	14.1	70.9	
G52.0	69.8	129.2	139.6	117.8	65.8	15.4	7.7	13.4	69.8	
G53.0	68.5	126.0	136.4	114.3	63.9	14.7	7.3	12.9	68.5	
G54.0	66.4	123.2	133.1	110.4	62.0	14.1	6.9	12.3	66.4	
G55.0	63.7	120.1	129.2	106.9	59.7	13.5	6.6	11.8	63.7	
G56.0	61.0	117.3	123.3	103.0	57.7	12.9	6.2	11.2	61.0	
G57.0	58.4	114.1	115.7	98.8	55.6	12.4	5.9	10.8	58.4	
G58.0	56.2	110.9	108.7	94.8	53.6	11.9	5.6	10.2	56.2	
G59.0	54.0	106.7	104.0	90.9	51.6	11.4	5.3	9.8	54.0	
G60.0	52.1	102.5	99.8	86.3	49.8	10.9	5.0	9.4	52.1	
G61.0	50.2	98.6	96.0	82.6	47.4	10.4	4.8	8.9	50.2	
G62.0	48.2	94.1	92.5	78.9	45.0	10.0	4.5	8.5	48.2	
G63.0	46.4	90.1	89.2	75.1	42.8	9.5	4.3	8.1	46.4	
G64.0	44.7	86.1	85.7	70.8	40.6	9.1	4.0	7.7	44.7	
G65.0	42.9	82.3	82.3	67.4	38.5	8.7	3.7	7.4	42.9	
G66.0	41.1	78.8	78.1	64.2	36.2	8.3	3.4	7.0	41.1	
G67.0	39.4	74.7	72.4	60.7	34.2	8.0	3.2	6.7	39.4	
G68.0	37.9	71.2	67.4	57.6	32.3	7.6	3.0	6.3	37.9	
G69.0	36.2	67.6	64.3	54.5	30.2	7.3	2.7	6.0	36.2	
G70.0	34.3	63.7	61.7	51.8	28.4	6.9	2.5	5.7	34.3	
G71.0	32.6	60.4	59.5	49.1	26.6	6.6	2.2	5.4	32.6	
G72.0	30.9	57.4	57.2	47.0	24.9	6.3	2.0	5.1	30.9	
G73.0	29.3	54.4	55.3	45.1	23.4	6.0	1.8	4.9	29.3	

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: 8.499 m
Humidity: 65
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	27.7	51.4	53.6	43.1	22.0	5.7	1.6	4.6	27.7	
G75.0	26.3	49.0	52.0	41.6	20.7	5.4	1.5	4.4	26.3	
G76.0	24.6	46.8	50.4	40.1	19.6	5.2	1.4	4.2	24.6	
G77.0	23.2	44.6	49.0	38.8	18.5	4.9	1.2	4.0	23.2	
G78.0	21.9	42.8	47.7	37.6	17.6	4.7	1.2	3.8	21.9	
G79.0	20.5	41.1	46.5	36.4	16.8	4.5	1.1	3.6	20.5	
G80.0	19.4	39.6	45.2	35.3	15.9	4.3	1.1	3.4	19.4	
G81.0	18.3	38.0	44.2	34.4	15.2	4.1	1.0	3.3	18.3	
G82.0	17.4	36.7	43.2	33.4	14.6	3.9	1.0	3.1	17.4	
G83.0	16.4	35.5	42.4	32.6	13.9	3.7	1.0	2.9	16.4	
G84.0	15.5	34.3	41.6	31.8	13.3	3.5	0.9	2.8	15.5	
G85.0	14.7	33.4	41.0	31.0	12.8	3.3	0.8	2.6	14.7	
G86.0	14.0	32.3	40.4	30.3	12.3	3.2	0.7	2.5	14.0	
G87.0	13.3	31.5	39.8	29.5	11.8	3.0	0.7	2.4	13.3	
G88.0	12.7	30.7	39.2	28.8	11.3	2.9	0.6	2.3	12.7	
G89.0	12.1	29.9	38.5	28.1	10.9	2.8	0.6	2.2	12.1	
G90.0	11.5	29.1	37.7	27.5	10.5	2.5	0.6	2.0	11.5	
G91.0	11.0	28.3	37.0	26.8	10.0	2.5	0.6	2.0	11.0	
G92.0	10.5	27.6	36.2	26.0	9.6	2.4	0.6	1.9	10.5	
G93.0	10.0	26.9	35.3	25.3	9.2	2.3	0.6	1.8	10.0	
G94.0	9.6	26.1	34.4	24.6	8.8	2.2	0.6	1.7	9.6	
G95.0	9.1	25.4	33.6	23.9	8.4	2.1	0.7	1.7	9.1	
G96.0	8.7	24.6	32.7	23.1	8.1	2.0	0.7	1.6	8.7	
G97.0	8.3	23.9	31.8	22.4	7.7	2.0	0.7	1.5	8.3	
G98.0	7.9	23.2	30.9	20.9	7.4	1.8	0.8	1.5	7.9	
G99.0	7.6	21.9	29.9	18.8	7.1	1.7	0.8	1.5	7.6	
G100.0	7.2	20.4	28.7	16.7	6.7	1.7	0.8	1.5	7.2	
G101.0	6.9	18.8	27.2	14.5	6.3	1.6	0.9	1.4	6.9	
G102.0	6.6	17.1	25.5	12.3	5.9	1.5	0.9	1.4	6.6	
G103.0	6.3	15.4	23.7	10.1	5.5	1.4	1.0	1.4	6.3	
G104.0	6.0	13.5	22.1	8.2	5.1	1.3	1.0	1.3	6.0	
G105.0	5.7	11.8	20.5	6.3	4.4	1.3	1.1	1.3	5.7	
G106.0	5.5	10.2	18.9	4.5	3.9	1.2	1.1	1.2	5.5	
G107.0	5.2	8.7	17.4	2.8	3.3	1.2	1.2	1.2	5.2	
G108.0	4.9	7.2	15.7	1.5	2.8	1.1	1.2	1.2	4.9	
G109.0	4.7	5.7	14.3	0.7	2.4	1.1	1.2	1.2	4.7	
G110.0	4.4	4.5	12.8	0.4	2.0	1.2	1.3	1.2	4.4	

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: 8.499 m
Humidity: 65
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	4.2	3.6	11.2	0.4	1.7	1.2	1.3	1.2	4.2	
G112.0	3.9	2.9	9.5	0.5	1.6	1.2	1.4	1.2	3.9	
G113.0	3.7	2.3	8.1	0.4	1.5	1.3	1.4	1.2	3.7	
G114.0	3.4	1.8	6.7	0.7	1.4	1.3	1.4	1.2	3.4	
G115.0	3.2	1.5	5.4	1.0	1.4	1.3	1.5	1.2	3.2	
G116.0	3.0	1.5	4.3	1.2	1.4	1.4	1.5	1.2	3.0	
G117.0	2.8	1.5	3.4	1.5	1.4	1.4	1.5	1.2	2.8	
G118.0	2.6	1.6	2.6	1.6	1.4	1.4	1.5	1.3	2.6	
G119.0	2.4	1.7	1.9	1.5	1.2	1.4	1.5	1.3	2.4	
G120.0	2.2	1.7	1.3	1.2	1.1	1.5	1.5	1.3	2.2	
G121.0	2.1	1.4	0.9	0.9	0.9	1.6	1.6	1.4	2.1	
G122.0	1.9	1.1	0.6	0.7	1.0	1.6	1.6	1.4	1.9	
G123.0	1.7	0.9	0.5	0.6	1.0	1.7	1.6	1.4	1.7	
G124.0	1.6	0.7	0.5	0.7	1.0	1.7	1.6	1.5	1.6	
G125.0	1.5	0.7	0.5	0.7	1.1	1.8	1.7	1.5	1.5	
G126.0	1.3	0.8	0.5	0.7	1.1	1.8	1.7	1.5	1.3	
G127.0	1.3	0.8	0.5	0.8	1.1	1.9	1.7	1.6	1.3	
G128.0	1.2	0.9	0.6	0.8	1.1	1.9	1.7	1.6	1.2	
G129.0	1.1	0.9	0.6	0.9	1.2	2.0	1.8	1.6	1.1	
G130.0	1.1	1.0	0.6	0.9	1.2	2.0	1.8	1.7	1.1	
G131.0	1.1	1.0	0.6	1.0	1.2	2.1	1.8	1.7	1.1	
G132.0	1.2	1.1	0.7	1.0	1.2	2.1	1.9	1.7	1.2	
G133.0	1.2	1.2	0.7	1.1	1.2	2.2	1.9	1.8	1.2	
G134.0	1.2	1.2	0.7	1.1	1.2	2.2	1.9	1.8	1.2	
G135.0	1.3	1.3	0.8	1.2	1.1	2.3	2.0	1.9	1.3	
G136.0	1.3	1.3	0.8	1.2	1.1	2.3	2.0	1.9	1.3	
G137.0	1.3	1.4	0.8	1.3	1.1	2.4	2.0	1.9	1.3	
G138.0	1.3	1.5	0.9	1.3	1.1	2.4	2.1	2.0	1.3	
G139.0	1.3	1.5	0.9	1.3	1.2	2.4	2.1	1.9	1.3	
G140.0	1.2	1.5	1.0	1.4	1.2	2.5	2.2	1.9	1.2	
G141.0	1.2	1.6	1.0	1.4	1.2	2.5	2.2	1.9	1.2	
G142.0	1.2	1.6	1.1	1.4	1.3	2.5	2.2	2.0	1.2	
G143.0	1.2	1.7	1.1	1.5	1.3	2.5	2.2	2.0	1.2	
G144.0	1.1	1.7	1.1	1.5	1.4	2.5	2.2	2.0	1.1	
G145.0	1.1	1.7	1.1	1.5	1.5	2.4	2.2	2.0	1.1	
G146.0	1.2	1.8	1.2	1.5	1.6	2.4	2.2	2.0	1.2	
G147.0	1.1	1.8	1.2	1.5	1.7	2.4	2.2	2.0	1.1	

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: 8.499 m
Humidity: 65
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	1.2	1.8	1.2	1.5	1.8	2.4	2.2	2.0	1.2	
G149.0	1.1	1.8	1.2	1.5	1.9	2.4	2.1	1.9	1.1	
G150.0	1.1	1.7	1.2	1.5	2.0	2.3	2.1	1.9	1.1	
G151.0	1.2	1.7	1.2	1.5	2.3	2.3	2.1	1.9	1.2	
G152.0	1.2	1.5	1.2	1.5	2.4	2.3	2.1	1.9	1.2	
G153.0	1.2	1.6	1.2	1.5	2.5	2.2	2.2	1.9	1.2	
G154.0	1.2	1.5	1.2	1.6	2.6	2.2	2.2	1.9	1.2	
G155.0	1.3	1.6	1.2	1.6	2.6	2.1	2.0	1.9	1.3	
G156.0	1.3	1.6	1.1	1.6	2.6	2.0	1.7	1.9	1.3	
G157.0	1.4	1.6	1.0	1.6	2.7	1.9	1.6	1.9	1.4	
G158.0	1.4	1.6	0.9	1.6	2.6	1.8	1.5	1.9	1.4	
G159.0	1.5	1.6	0.9	1.5	2.5	1.7	1.5	1.9	1.5	
G160.0	1.7	1.6	0.8	1.4	2.3	1.6	1.5	1.8	1.7	
G161.0	1.8	1.5	0.8	1.3	2.0	1.4	1.5	1.9	1.8	
G162.0	1.9	1.5	0.8	1.3	1.4	1.4	1.5	1.9	1.9	
G163.0	1.9	1.5	0.9	1.2	1.2	1.4	1.5	1.8	1.9	
G164.0	2.0	1.5	0.9	1.0	1.2	1.4	1.5	1.6	2.0	
G165.0	2.1	1.3	0.9	1.0	1.2	1.4	1.5	1.5	2.1	
G166.0	2.0	1.2	1.0	1.1	1.2	1.4	1.5	1.5	2.0	
G167.0	1.9	1.0	1.0	1.1	1.2	1.4	1.5	1.4	1.9	
G168.0	1.7	1.0	1.0	1.1	1.2	1.4	1.5	1.4	1.7	
G169.0	1.3	1.1	1.0	1.1	1.2	1.4	1.5	1.4	1.3	
G170.0	1.2	1.1	1.0	1.2	1.2	1.4	1.4	1.4	1.2	
G171.0	1.2	1.1	1.1	1.2	1.2	1.4	1.4	1.4	1.2	
G172.0	1.2	1.1	1.1	1.2	1.3	1.4	1.4	1.4	1.2	
G173.0	1.2	1.1	1.1	1.2	1.2	1.4	1.4	1.4	1.2	
G174.0	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.2	
G175.0	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.2	
G176.0	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.2	
G177.0	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.2	
G178.0	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.2	
G179.0	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.2	
G180.0	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	

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: 8.499 m
Humidity: 65
Inspector: