Report No.: TH-5071A

Test Time: 2024/10/11 09:47

Luminaire Property

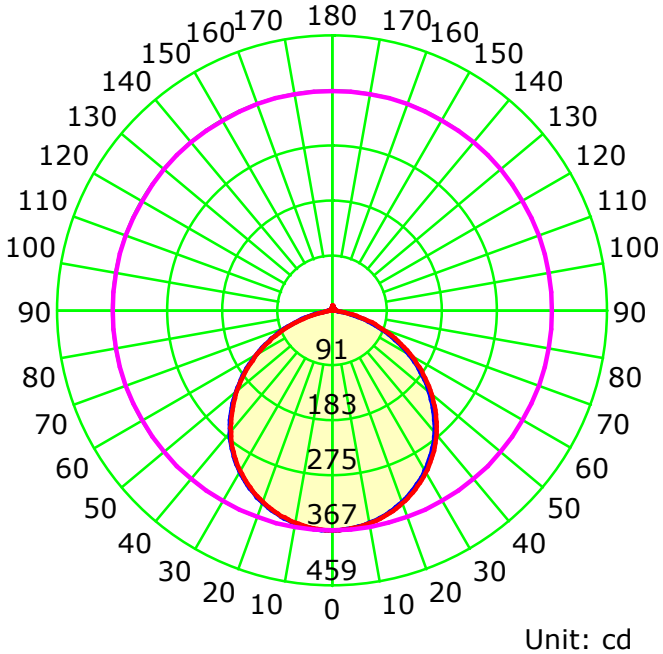
Luminaire Manufacturer: NORDECOR
Luminaire Category: 4189
Luminaire Description: 12W
Lamp Catalog:
Lamp Description:
Number of Lamps:
Lumens per Lamp:
Luminous Length (mm): 145
Luminous Width (mm): 145
Luminous Height (mm):
Voltage: 220.4 V
Current: 0.101 A
Power: 11.53 W
Power Factor: 0.515

Photometric Results

CIE Class: Direct
Total Rated Lamp Lumens: 1009.4 lm
Measurement Flux: 1009.4 lm
Efficiency: 100%
Downward Ratio: 98%
Upward Ratio: 2%
Horizontal Diffuse Angle(50%): H108.8
Vertical Diffuse Angle(50%): V109.3
Luminaire Efficacy Rating (LER): 87.59
C0r0 Intensity: 367.66 cd
Max. Intensity: 367.77 cd
Pos of Max. Intensity: H180 V1
S/MH(C0/C180): 1.25
S/MH(C90/C270): 1.26

Picture Of Luminaire

Luminous Intensity Distribution Curve



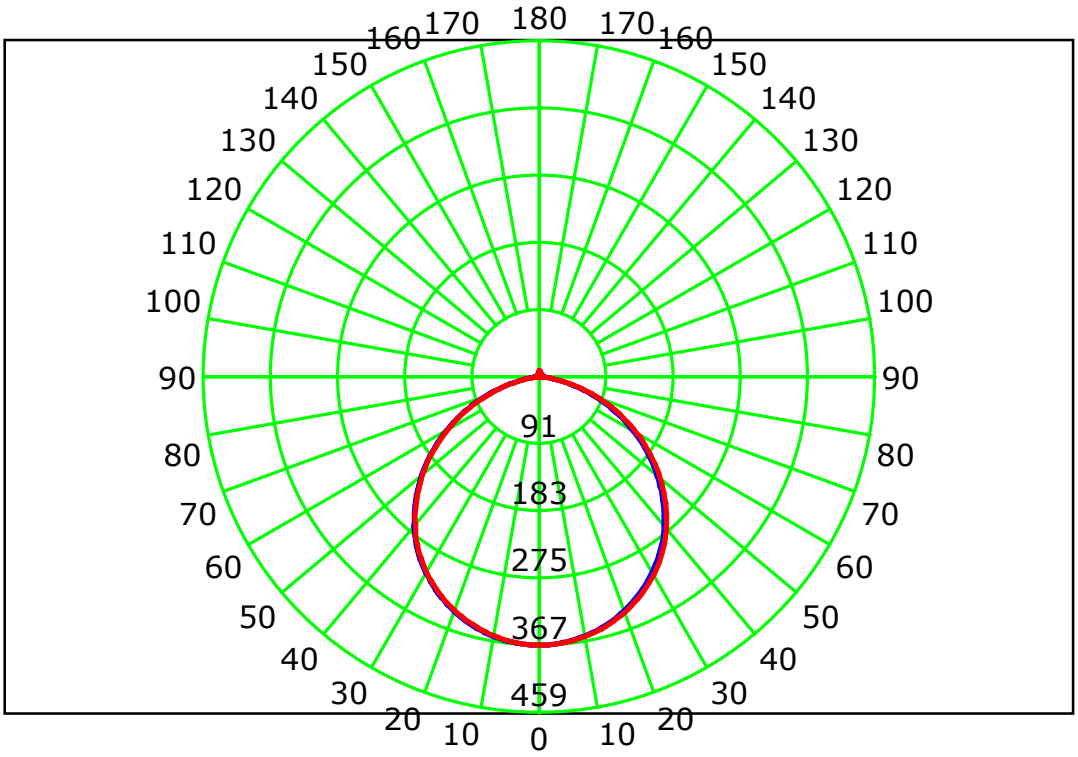
Unit: cd

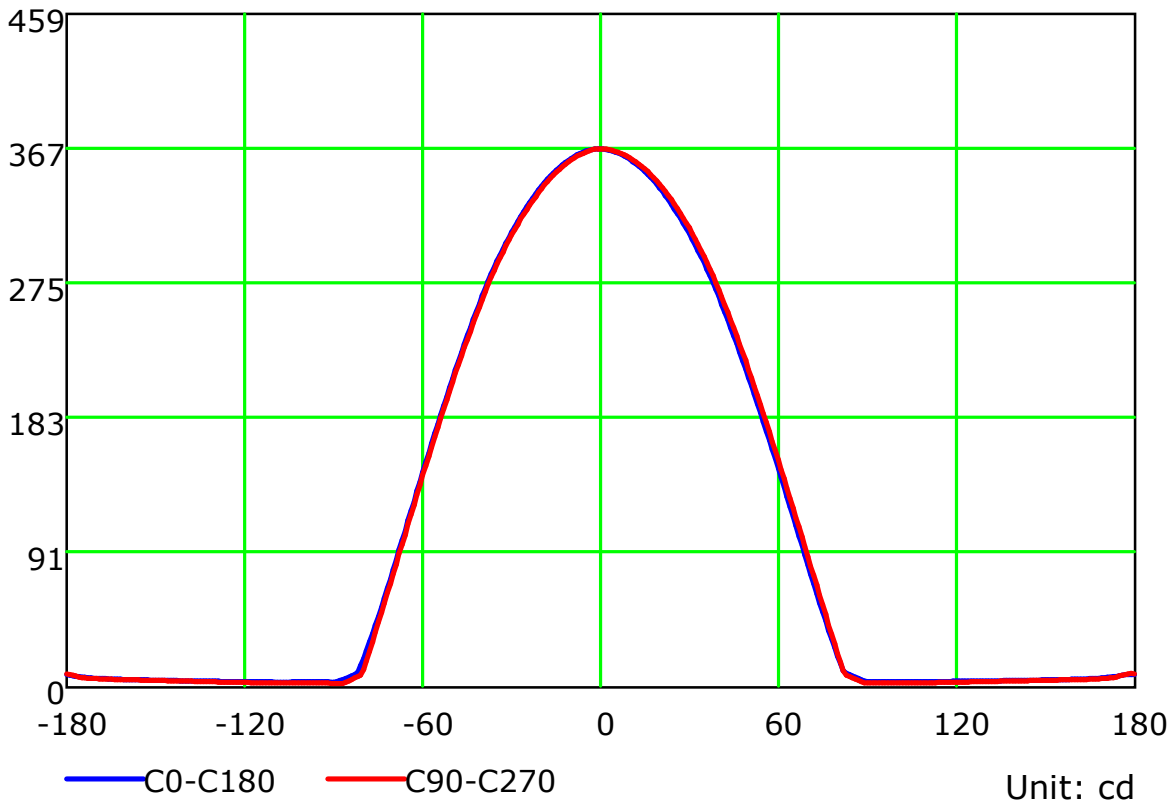
Average Diffuse Angle(50%): 109.1°

C0-C180 C90-C270 G1

C Plane (°):0.0-360.0: 90.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab: Inventfine instruments
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 8.684 m [K=1.0000]
Temperature: 26
Humidity: 65
Operator: Jacky
Inspector:

Luminous Intensity Distribution Curve

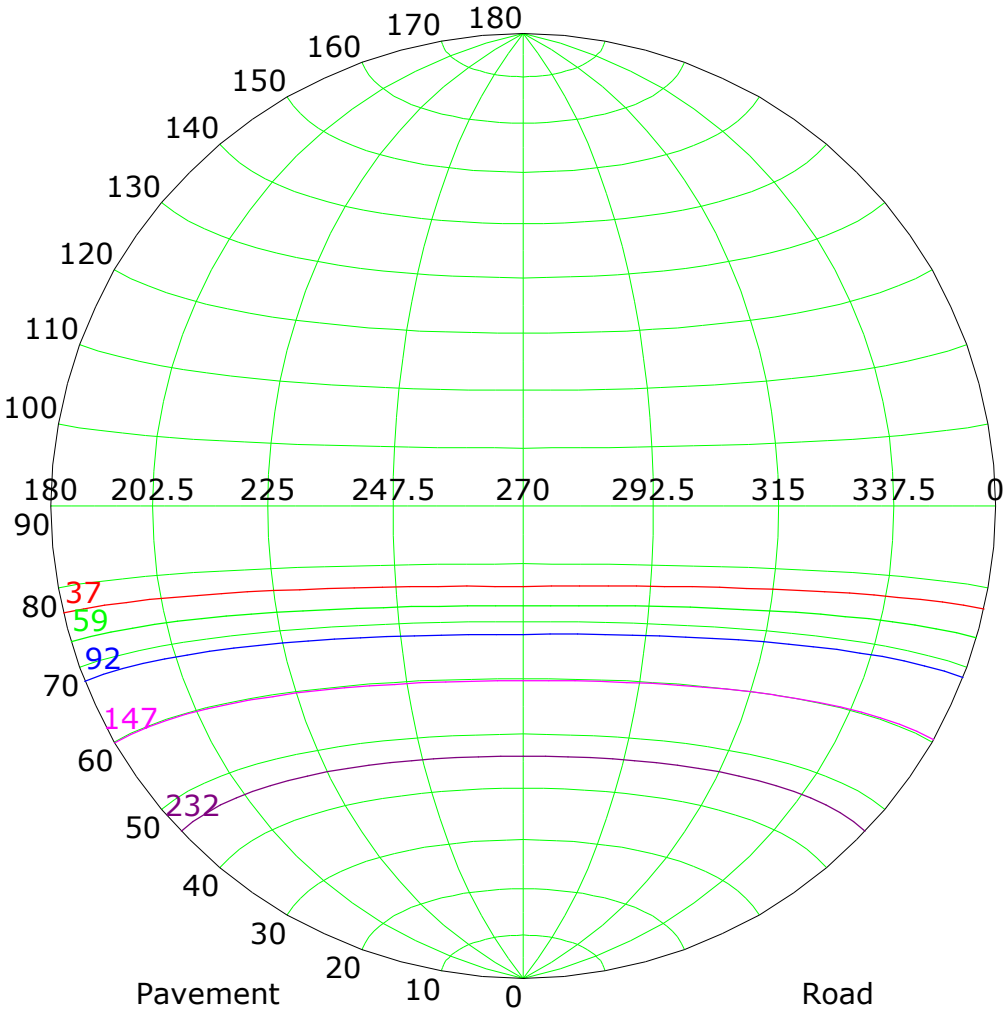




C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Isocandela (sphere)



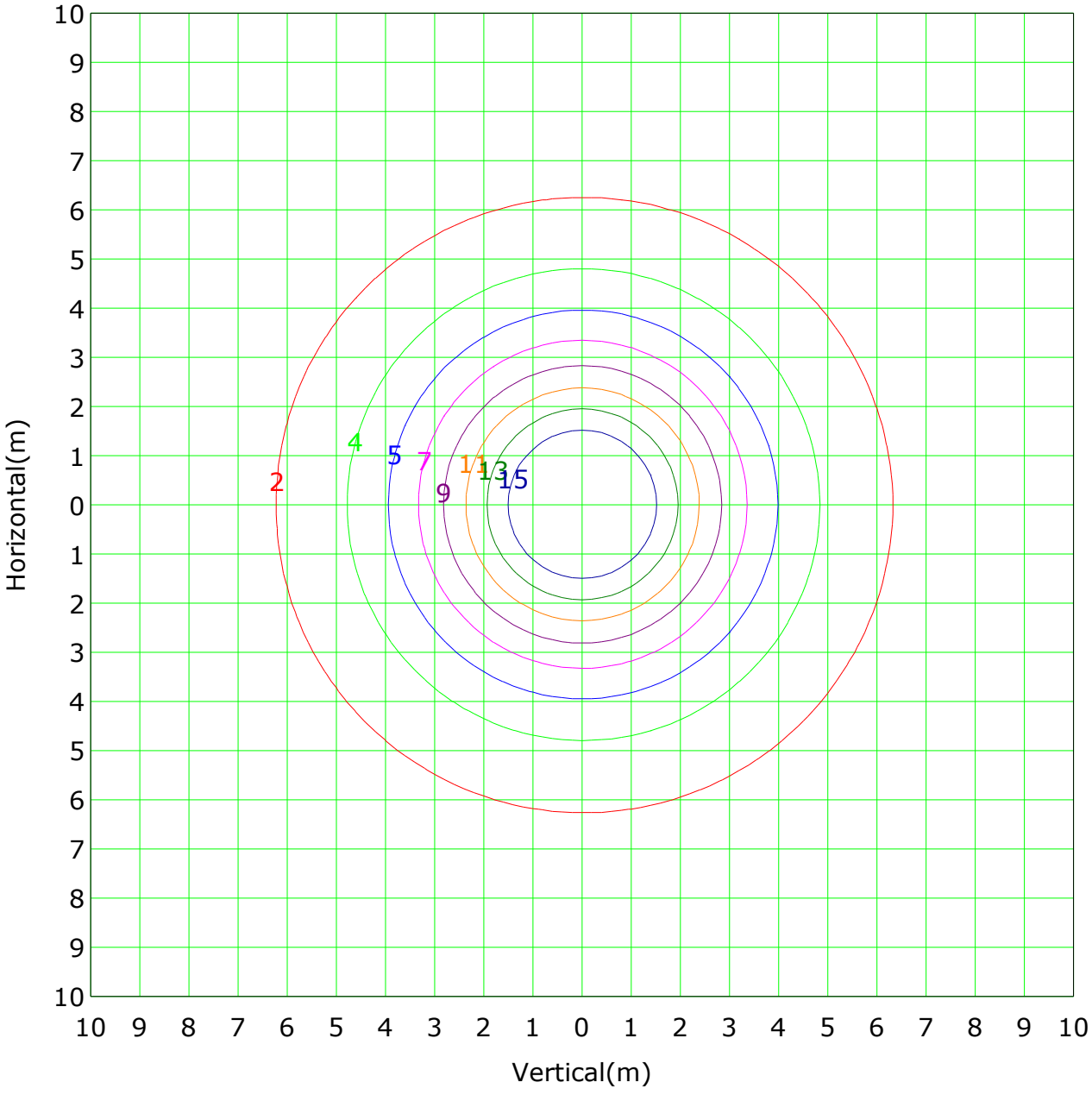
Imax (100%): 368 cd

(10%): 37 cd	(16%): 59 cd
(25%): 92 cd	(40%): 147 cd
(63%): 232 cd	(100%): 368 cd

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

IsoLux Plot

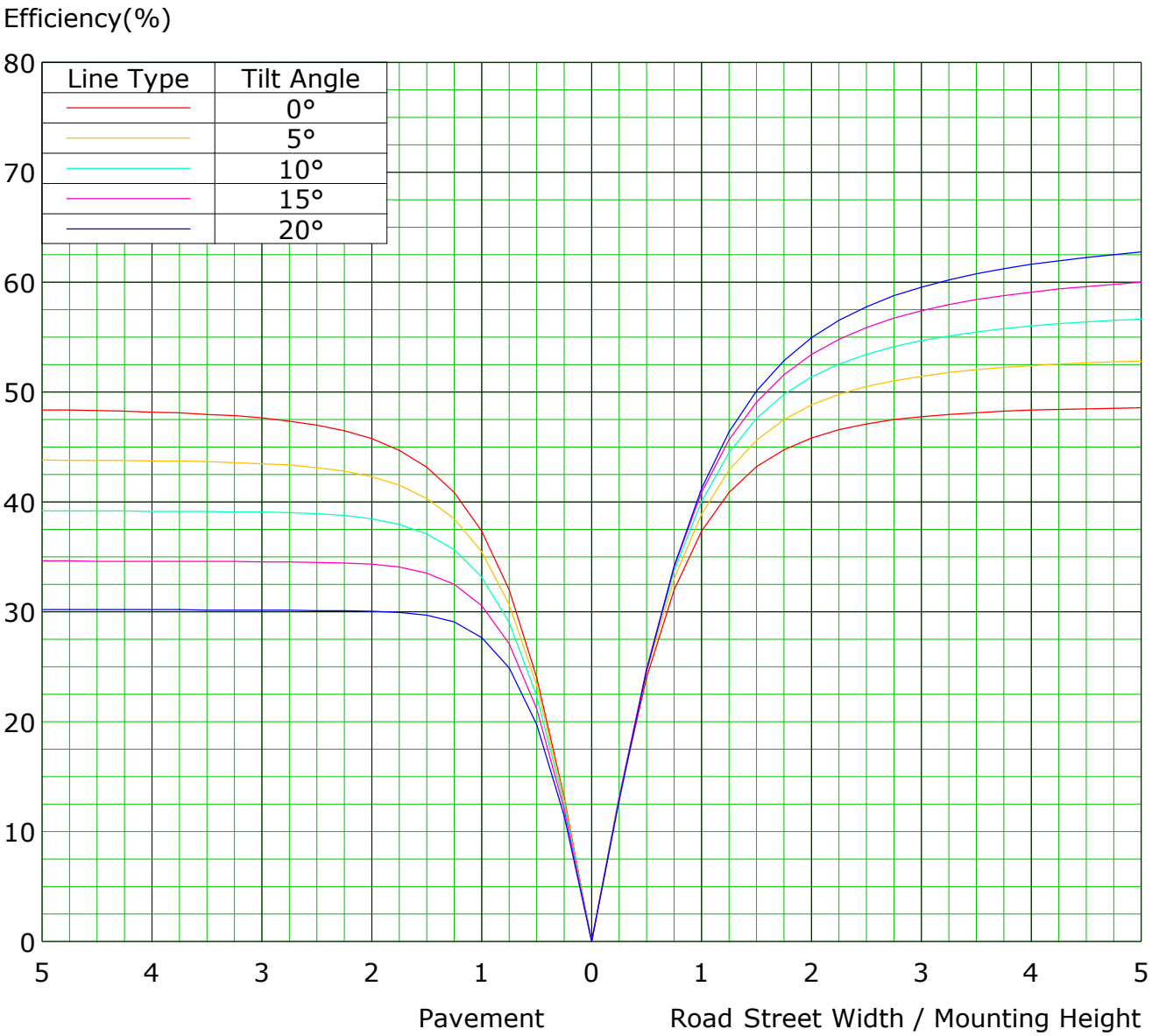


Mounting Height: 4.5m Max Lux(100%): 18.2 lx

(10%): 1.8 lx
(20%): 3.6 lx
(30%): 5.4 lx
(40%): 7.3 lx
(50%): 9.1 lx
(60%): 10.9 lx
(70%): 12.7 lx
(80%): 14.5 lx

C Plane (°):0.0-360.0: 90.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab: Inventfine instruments
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 8.684 m [K=1.0000]
Temperature: 26
Humidity: 65
Operator: Jacky
Inspector:

Roadway CU Curve

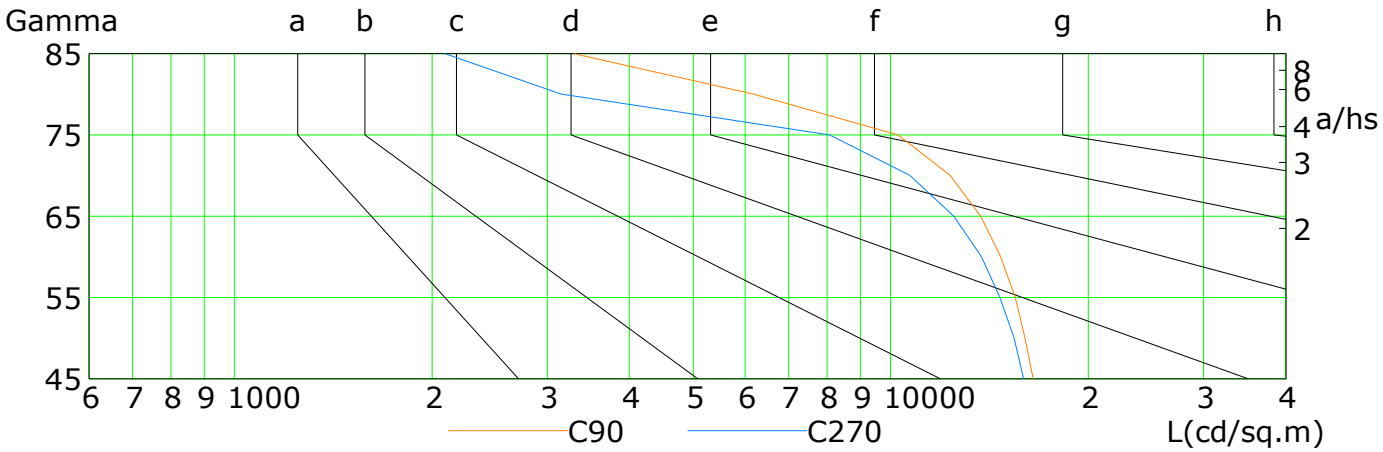


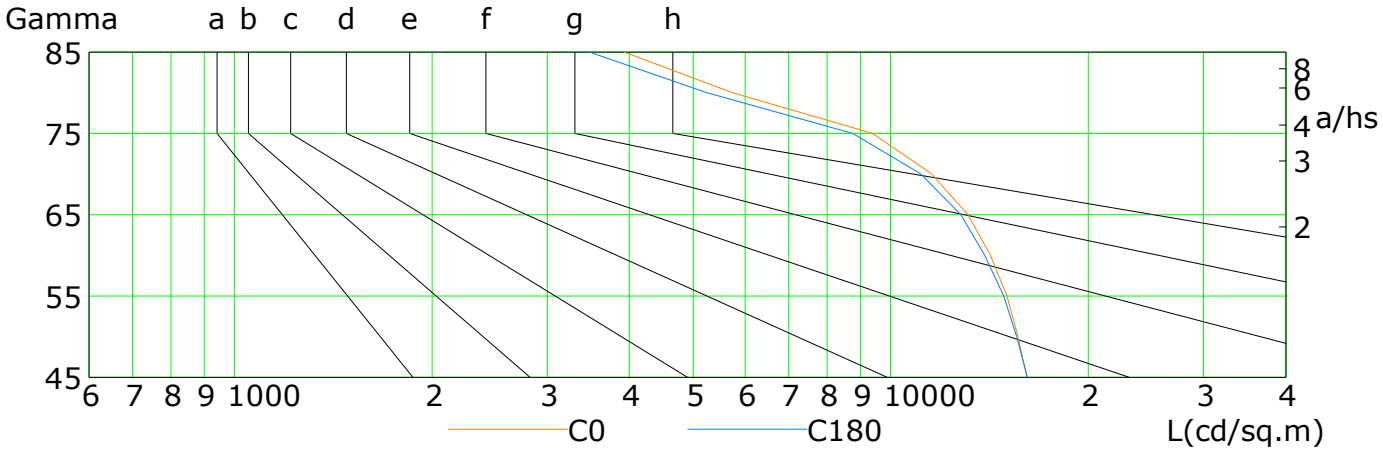
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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



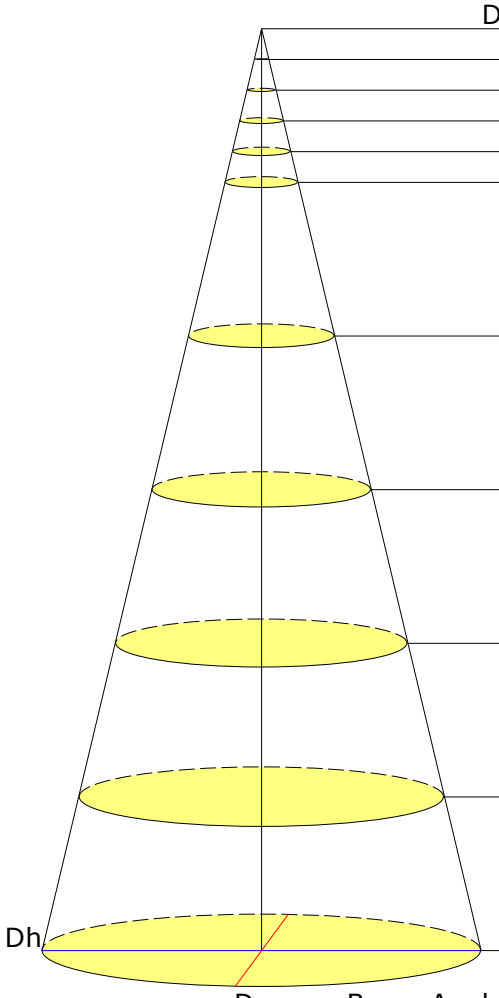


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	16128	15635	15026	14184	13104	11544	9384	5722	3928
C90	16504	16027	15471	14706	13726	12324	10259	6164	3286
C180	16145	15572	14858	13917	12782	11098	8752	5234	3478
C270	15953	15408	14667	13751	12490	10687	8079	3142	2092

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Illuminance at a Distance



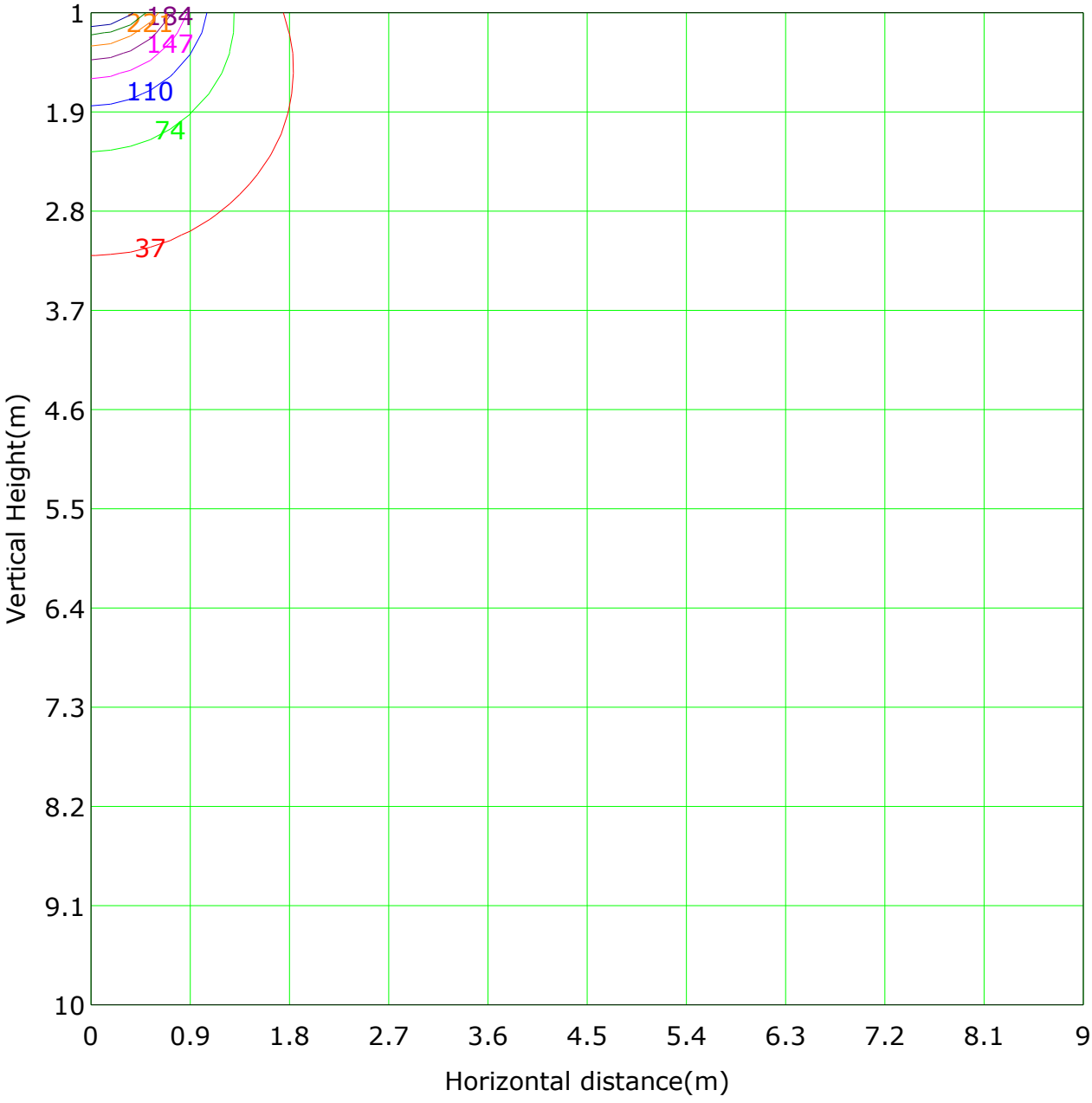
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	367.66	2.79/2.82	6.2	68.97
2.0	91.92	5.59/5.64	24.8	17.24
3.0	40.85	8.38/8.46	55.8	7.66
4.0	22.98	11.17/11.29	99.1	4.31
5.0	14.71	13.97/14.11	154.9	2.76
10.0	3.68	27.93/28.22	619.6	0.69
15.0	1.63	41.90/42.32	1394.2	0.31
20.0	0.92	55.87/56.43	2478.6	0.17
25.0	0.59	69.84/70.54	3872.8	0.11
30.0	0.41	83.80/84.65	5576.8	0.08

Beam Angle(B): H108.8 V109.3 Field Angle(F): H154.1 V153.8

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 10.0m Max Lux: 367.7 lx

(10%): 36.8 lx	(20%): 73.5 lx
(30%): 110.3 lx	(40%): 147.1 lx
(50%): 183.8 lx	(60%): 220.6 lx
(70%): 257.4 lx	(80%): 294.1 lx

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Area Flux Table

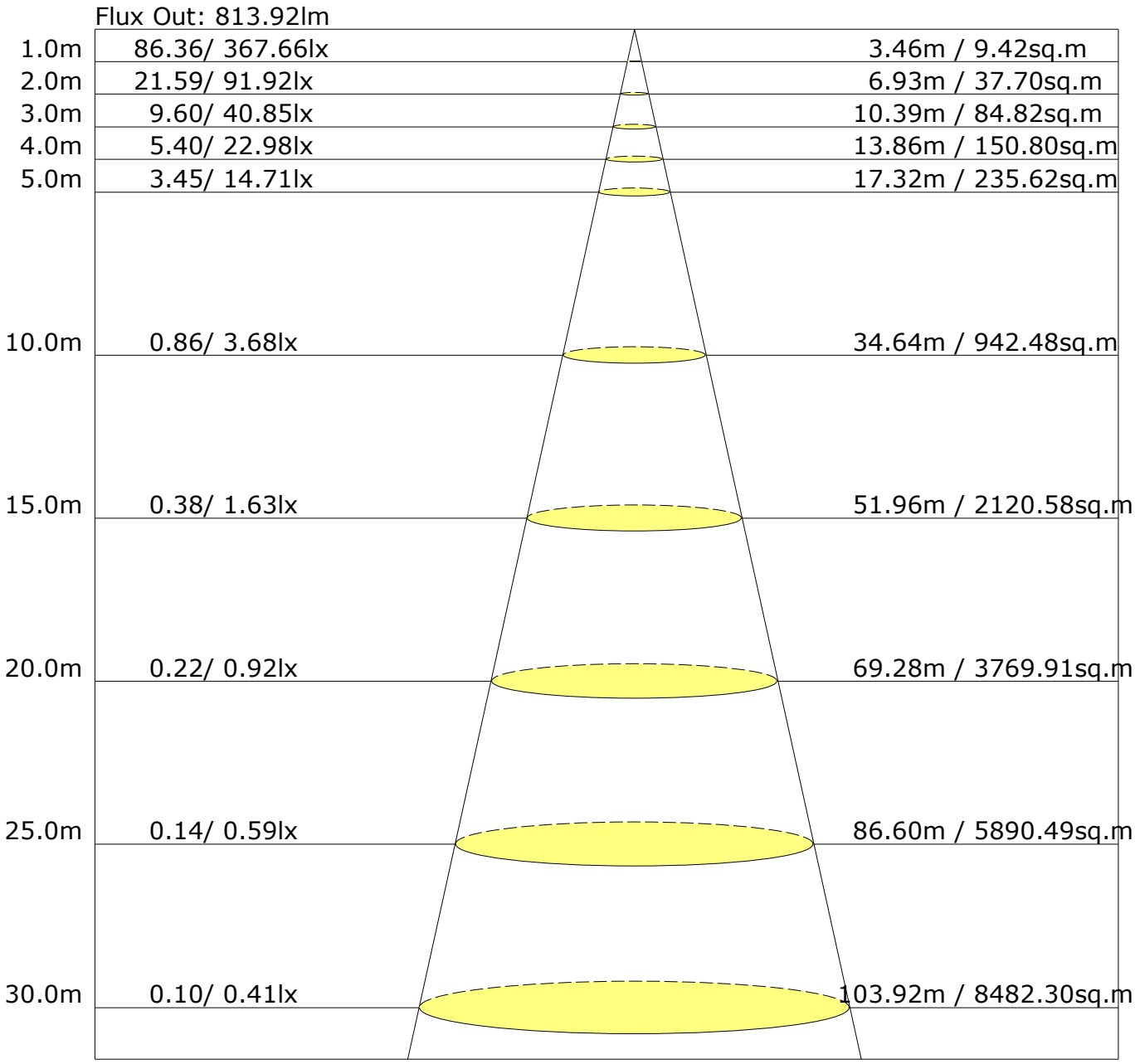
Unit: lm

Horizontal plane	Vertical plane																									
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	1.6	0.0
-80	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.7	1.0	1.2	1.3	1.3	1.3	1.2	0.7	0.5	0.2	0.1	0.0	10.2	6.2
-70	0.0	0.0	0.1	0.3	0.7	1.3	2.0	2.6	3.1	3.3	3.3	3.3	3.1	2.6	2.0	1.4	0.7	0.3	0.1	26.9	25.9
-60	0.0	0.1	0.5	1.3	2.3	3.3	4.2	4.9	5.3	5.3	5.3	5.0	4.3	3.3	2.3	1.3	0.6	0.1	0.0	44.2	43.7
-50	0.0	0.2	0.8	1.8	3.1	4.5	5.7	6.6	7.1	7.1	6.6	5.7	4.5	3.2	1.9	0.8	0.2	0.0	0.0	60.2	59.8
-40	0.0	0.3	1.1	2.3	3.9	5.5	7.0	8.1	8.7	8.7	8.1	7.0	5.5	3.9	2.4	1.1	0.3	0.0	0.0	73.9	73.6
-30	0.0	0.3	1.3	2.7	4.5	6.3	8.0	9.2	9.8	9.8	9.2	8.0	6.3	4.5	2.8	1.3	0.4	0.0	0.0	84.4	84.2
-20	0.0	0.4	1.4	3.0	4.9	6.9	8.6	9.9	10.6	10.6	9.9	8.6	6.9	4.9	3.0	1.4	0.4	0.0	0.0	91.5	91.4
-10	0.0	0.4	1.5	3.1	5.1	7.2	9.0	10.3	11.0	11.0	10.3	8.9	7.2	5.1	3.2	1.5	0.4	0.0	0.0	95.2	95.1
0	0.0	0.4	1.5	3.1	5.1	7.2	9.0	10.3	11.0	11.0	10.3	9.0	7.2	5.1	3.2	1.5	0.4	0.0	0.0	95.4	95.2
10	0.0	0.4	1.5	3.1	5.1	7.2	9.0	10.3	11.0	10.6	9.9	8.7	6.9	4.9	3.0	1.4	0.4	0.0	0.0	92.0	91.9
20	0.0	0.3	1.3	2.7	4.5	6.4	8.1	9.3	9.9	9.9	9.3	8.0	6.4	4.6	2.8	1.3	0.4	0.0	0.0	85.2	85.1
30	0.0	0.3	1.1	2.4	4.0	5.6	7.1	8.2	8.8	8.8	8.2	7.1	5.6	4.0	2.4	1.1	0.3	0.0	0.0	75.2	74.9
40	0.0	0.2	0.8	1.9	3.2	4.6	5.9	6.8	7.4	7.4	6.8	5.9	4.6	3.3	1.9	0.9	0.2	0.0	0.0	61.9	61.6
50	0.0	0.1	0.6	1.4	2.4	3.4	4.4	5.2	5.6	5.6	5.2	4.4	3.5	2.4	1.4	0.6	0.1	0.0	0.0	46.3	45.8
60	0.0	0.1	0.3	0.8	1.4	2.2	2.8	3.4	3.7	3.7	3.4	2.9	2.2	1.5	0.8	0.3	0.1	0.0	0.0	29.4	28.5
70	0.0	0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.7	1.7	1.5	1.2	0.9	0.6	0.3	0.1	0.0	0.0	0.0	12.5	9.0
80	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	2.1	0.0
90	0.3	3.7	14.1	30.9	51.9	74.0	93.6	108.4	116.2	116.2	108.3	93.7	74.2	52.3	31.5	14.5	3.9	0.3	988		972
Flux(E)	0.0	2.3	13.0	30.0	51.0	73.1	92.8	107.5	115.4	115.4	107.5	92.8	73.2	51.4	30.5	13.5	2.5	0.0			

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
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	21.9	23.3	22.3	23.5	23.8	21.9	23.3	22.3	23.5	23.8
3H	23.2	24.4	23.6	24.7	25.0	23.2	24.4	23.6	24.7	25.0
4H	23.6	24.8	24.0	25.1	25.4	23.6	24.8	24.0	25.1	25.4
6H	23.8	24.8	24.2	25.2	25.5	23.8	24.8	24.2	25.2	25.5
8H	23.8	24.8	24.2	25.2	25.5	23.7	24.8	24.2	25.1	25.5
12H	23.8	24.7	24.2	25.1	25.5	23.7	24.7	24.1	25.1	25.4
X=4H Y=2H	22.5	23.7	22.9	24.0	24.3	22.5	23.7	22.9	24.0	24.3
3H	24.0	24.9	24.4	25.3	25.7	24.0	24.9	24.4	25.3	25.7
4H	24.5	25.3	24.9	25.7	26.1	24.5	25.3	24.9	25.7	26.1
6H	24.7	25.5	25.2	25.9	26.3	24.7	25.4	25.1	25.8	26.3
8H	24.7	25.4	25.2	25.8	26.3	24.7	25.4	25.1	25.8	26.3
12H	24.7	25.3	25.2	25.8	26.3	24.7	25.3	25.1	25.7	26.2
X=8H Y=4H	24.6	25.3	25.1	25.8	26.2	24.6	25.3	25.1	25.8	26.2
6H	24.9	25.5	25.4	26.0	26.5	24.9	25.4	25.4	25.9	26.4
8H	25.0	25.4	25.5	25.9	26.5	24.9	25.4	25.4	25.9	26.4
12H	25.0	25.4	25.5	25.9	26.4	24.9	25.3	25.4	25.8	26.4
X=12H Y=4H	24.6	25.2	25.1	25.7	26.2	24.6	25.2	25.1	25.7	26.2
6H	24.9	25.4	25.4	25.9	26.4	24.9	25.4	25.4	25.9	26.4
8H	25.0	25.4	25.5	25.9	26.4	24.9	25.3	25.4	25.8	26.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.6					+0.4/-0.6				
S=2.0H	+0.7/-1.1					+0.6/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 1009lm (8log(F/F0) = 0.0).

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	367.6	0.4	0.4	0.03	0.03
1.0-2.0	367.5	1.1	1.4	0.10	0.14
2.0-3.0	367.1	1.8	3.2	0.17	0.31
3.0-4.0	366.7	2.5	5.6	0.24	0.56
4.0-5.0	366.1	3.1	8.8	0.31	0.87
5.0-6.0	365.4	3.8	12.6	0.38	1.25
6.0-7.0	364.5	4.5	17.1	0.45	1.70
7.0-8.0	363.6	5.2	22.3	0.52	2.21
8.0-9.0	362.6	5.9	28.2	0.58	2.80
9.0-10.0	361.3	6.5	34.8	0.65	3.44
10.0-11.0	360.0	7.2	41.9	0.71	4.16
11.0-12.0	358.6	7.8	49.8	0.78	4.93
12.0-13.0	357.1	8.5	58.3	0.84	5.77
13.0-14.0	355.4	9.1	67.4	0.90	6.67
14.0-15.0	353.7	9.7	77.1	0.96	7.64
15.0-16.0	351.8	10.3	87.4	1.02	8.66
16.0-17.0	349.7	10.9	98.3	1.08	9.74
17.0-18.0	347.6	11.5	109.7	1.14	10.87
18.0-19.0	345.3	12.0	121.8	1.19	12.06
19.0-20.0	342.9	12.6	134.3	1.24	13.31
20.0-21.0	340.4	13.1	147.4	1.30	14.60
21.0-22.0	337.8	13.6	161.0	1.34	15.95
22.0-23.0	335.0	14.1	175.0	1.39	17.34
23.0-24.0	332.1	14.5	189.5	1.44	18.78
24.0-25.0	329.1	15.0	204.5	1.48	20.26
25.0-26.0	326.0	15.4	219.9	1.52	21.78
26.0-27.0	322.8	15.8	235.7	1.56	23.35
27.0-28.0	319.5	16.2	251.9	1.60	24.95
28.0-29.0	316.0	16.5	268.4	1.64	26.59
29.0-30.0	312.5	16.9	285.3	1.67	28.26
30.0-31.0	308.7	17.2	302.5	1.70	29.96
31.0-32.0	305.0	17.5	319.9	1.73	31.70
32.0-33.0	301.1	17.7	337.7	1.76	33.45
33.0-34.0	297.0	18.0	355.6	1.78	35.23
34.0-35.0	292.9	18.2	373.8	1.80	37.04
35.0-36.0	288.7	18.4	392.2	1.82	38.86

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
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	284.3	18.5	410.8	1.84	40.69
37.0-38.0	279.6	18.7	429.4	1.85	42.54
38.0-39.0	274.8	18.8	448.2	1.86	44.40
39.0-40.0	269.9	18.8	467.0	1.86	46.27
40.0-41.0	264.7	18.9	485.9	1.87	48.14
41.0-42.0	259.4	18.9	504.7	1.87	50.00
42.0-43.0	254.2	18.8	523.6	1.87	51.87
43.0-44.0	248.8	18.8	542.3	1.86	53.73
44.0-45.0	243.4	18.7	561.0	1.85	55.58
45.0-46.0	237.7	18.6	579.6	1.84	57.42
46.0-47.0	232.1	18.5	598.1	1.83	59.25
47.0-48.0	226.3	18.3	616.4	1.81	61.07
48.0-49.0	220.4	18.1	634.5	1.79	62.86
49.0-50.0	214.6	17.9	652.4	1.77	64.63
50.0-51.0	208.6	17.6	670.0	1.75	66.38
51.0-52.0	202.6	17.4	687.4	1.72	68.10
52.0-53.0	196.6	17.1	704.5	1.69	69.80
53.0-54.0	190.3	16.8	721.3	1.66	71.46
54.0-55.0	184.0	16.4	737.7	1.63	73.09
55.0-56.0	177.8	16.1	753.8	1.59	74.68
56.0-57.0	171.4	15.7	769.5	1.55	76.23
57.0-58.0	164.9	15.2	784.7	1.51	77.74
58.0-59.0	158.6	14.8	799.6	1.47	79.21
59.0-60.0	152.1	14.4	813.9	1.42	80.63
60.0-61.0	145.4	13.9	827.8	1.37	82.01
61.0-62.0	138.9	13.4	841.2	1.33	83.34
62.0-63.0	132.4	12.9	854.1	1.28	84.61
63.0-64.0	125.6	12.3	866.4	1.22	85.83
64.0-65.0	119.0	11.8	878.2	1.17	87.00
65.0-66.0	112.3	11.2	889.4	1.11	88.11
66.0-67.0	105.6	10.6	900.0	1.05	89.16
67.0-68.0	99.0	10.0	910.0	0.99	90.15
68.0-69.0	92.2	9.4	919.4	0.93	91.09
69.0-70.0	85.5	8.8	928.2	0.87	91.96
70.0-71.0	78.9	8.2	936.4	0.81	92.76
71.0-72.0	72.5	7.5	943.9	0.75	93.51

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
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	65.9	6.9	950.8	0.68	94.19
73.0-74.0	59.3	6.2	957.0	0.62	94.81
74.0-75.0	52.8	5.6	962.6	0.55	95.36
75.0-76.0	46.4	4.9	967.5	0.49	95.85
76.0-77.0	39.9	4.3	971.8	0.42	96.27
77.0-78.0	33.6	3.6	975.4	0.36	96.63
78.0-79.0	27.4	2.9	978.3	0.29	96.92
79.0-80.0	21.4	2.3	980.6	0.23	97.15
80.0-81.0	16.0	1.7	982.4	0.17	97.32
81.0-82.0	11.5	1.3	983.6	0.12	97.45
82.0-83.0	8.6	0.9	984.5	0.09	97.54
83.0-84.0	7.2	0.8	985.3	0.08	97.62
84.0-85.0	6.3	0.7	986.0	0.07	97.68
85.0-86.0	5.4	0.6	986.6	0.06	97.74
86.0-87.0	4.6	0.5	987.1	0.05	97.79
87.0-88.0	3.8	0.4	987.5	0.04	97.83
88.0-89.0	3.2	0.4	987.9	0.03	97.87
89.0-90.0	2.8	0.3	988.2	0.03	97.90
90.0-91.0	2.7	0.3	988.5	0.03	97.93
91.0-92.0	2.7	0.3	988.8	0.03	97.96
92.0-93.0	2.8	0.3	989.1	0.03	97.99
93.0-94.0	2.8	0.3	989.4	0.03	98.02
94.0-95.0	2.8	0.3	989.7	0.03	98.05
95.0-96.0	2.8	0.3	990.0	0.03	98.08
96.0-97.0	2.8	0.3	990.3	0.03	98.11
97.0-98.0	2.8	0.3	990.6	0.03	98.14
98.0-99.0	2.8	0.3	990.9	0.03	98.17
99.0-100.0	2.8	0.3	991.2	0.03	98.20
100.0-101.0	2.8	0.3	991.5	0.03	98.23
101.0-102.0	2.7	0.3	991.8	0.03	98.26
102.0-103.0	2.7	0.3	992.1	0.03	98.29
103.0-104.0	2.7	0.3	992.4	0.03	98.32
104.0-105.0	2.7	0.3	992.7	0.03	98.35
105.0-106.0	2.7	0.3	993.0	0.03	98.37
106.0-107.0	2.7	0.3	993.3	0.03	98.40
107.0-108.0	2.7	0.3	993.6	0.03	98.43

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
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	2.8	0.3	993.8	0.03	98.46
109.0-110.0	2.8	0.3	994.1	0.03	98.49
110.0-111.0	2.8	0.3	994.4	0.03	98.52
111.0-112.0	2.8	0.3	994.7	0.03	98.54
112.0-113.0	2.8	0.3	995.0	0.03	98.57
113.0-114.0	2.9	0.3	995.3	0.03	98.60
114.0-115.0	2.9	0.3	995.6	0.03	98.63
115.0-116.0	2.9	0.3	995.9	0.03	98.66
116.0-117.0	3.0	0.3	996.2	0.03	98.69
117.0-118.0	3.0	0.3	996.4	0.03	98.72
118.0-119.0	3.1	0.3	996.7	0.03	98.75
119.0-120.0	3.1	0.3	997.0	0.03	98.78
120.0-121.0	3.1	0.3	997.3	0.03	98.81
121.0-122.0	3.1	0.3	997.6	0.03	98.83
122.0-123.0	3.2	0.3	997.9	0.03	98.86
123.0-124.0	3.2	0.3	998.2	0.03	98.89
124.0-125.0	3.2	0.3	998.5	0.03	98.92
125.0-126.0	3.3	0.3	998.8	0.03	98.95
126.0-127.0	3.3	0.3	999.1	0.03	98.98
127.0-128.0	3.3	0.3	999.4	0.03	99.01
128.0-129.0	3.4	0.3	999.7	0.03	99.04
129.0-130.0	3.4	0.3	1000.0	0.03	99.07
130.0-131.0	3.5	0.3	1000.2	0.03	99.09
131.0-132.0	3.5	0.3	1000.5	0.03	99.12
132.0-133.0	3.5	0.3	1000.8	0.03	99.15
133.0-134.0	3.6	0.3	1001.1	0.03	99.18
134.0-135.0	3.6	0.3	1001.4	0.03	99.21
135.0-136.0	3.7	0.3	1001.7	0.03	99.24
136.0-137.0	3.7	0.3	1002.0	0.03	99.26
137.0-138.0	3.8	0.3	1002.2	0.03	99.29
138.0-139.0	3.8	0.3	1002.5	0.03	99.32
139.0-140.0	3.8	0.3	1002.8	0.03	99.34
140.0-141.0	3.9	0.3	1003.0	0.03	99.37
141.0-142.0	3.9	0.3	1003.3	0.03	99.40
142.0-143.0	3.9	0.3	1003.6	0.03	99.42
143.0-144.0	4.0	0.3	1003.8	0.03	99.45

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
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	4.0	0.3	1004.1	0.03	99.47
145.0-146.0	4.0	0.3	1004.3	0.02	99.50
146.0-147.0	4.1	0.2	1004.6	0.02	99.52
147.0-148.0	4.1	0.2	1004.8	0.02	99.55
148.0-149.0	4.2	0.2	1005.1	0.02	99.57
149.0-150.0	4.2	0.2	1005.3	0.02	99.59
150.0-151.0	4.3	0.2	1005.5	0.02	99.62
151.0-152.0	4.3	0.2	1005.8	0.02	99.64
152.0-153.0	4.3	0.2	1006.0	0.02	99.66
153.0-154.0	4.4	0.2	1006.2	0.02	99.68
154.0-155.0	4.4	0.2	1006.4	0.02	99.70
155.0-156.0	4.5	0.2	1006.6	0.02	99.72
156.0-157.0	4.5	0.2	1006.8	0.02	99.74
157.0-158.0	4.6	0.2	1007.0	0.02	99.76
158.0-159.0	4.6	0.2	1007.2	0.02	99.78
159.0-160.0	4.7	0.2	1007.4	0.02	99.80
160.0-161.0	4.8	0.2	1007.5	0.02	99.82
161.0-162.0	4.8	0.2	1007.7	0.02	99.83
162.0-163.0	4.9	0.2	1007.9	0.02	99.85
163.0-164.0	4.9	0.2	1008.0	0.02	99.86
164.0-165.0	5.0	0.1	1008.2	0.01	99.88
165.0-166.0	5.1	0.1	1008.3	0.01	99.89
166.0-167.0	5.2	0.1	1008.4	0.01	99.91
167.0-168.0	5.3	0.1	1008.6	0.01	99.92
168.0-169.0	5.4	0.1	1008.7	0.01	99.93
169.0-170.0	5.5	0.1	1008.8	0.01	99.94
170.0-171.0	5.6	0.1	1008.9	0.01	99.95
171.0-172.0	5.8	0.1	1009.0	0.01	99.96
172.0-173.0	5.9	0.1	1009.1	0.01	99.97
173.0-174.0	6.2	0.1	1009.1	0.01	99.98
174.0-175.0	6.5	0.1	1009.2	0.01	99.98
175.0-176.0	6.9	0.1	1009.3	0.01	99.99
176.0-177.0	7.3	0.0	1009.3	0.00	99.99
177.0-178.0	7.8	0.0	1009.4	0.00	100.00
178.0-179.0	8.1	0.0	1009.4	0.00	100.00
179.0-180.0	8.3	0.0	1009.4	0.00	100.00

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 561.04 lm

%lum = 55.6%
%lamp = 55.6%

cone flux(120°): 813.92 lm

%lum = 80.6%
%lamp = 80.6%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	367.7	367.7	367.7	367.7	367.7					
G1.0	367.4	367.6	367.8	367.6	367.4					
G2.0	367.1	367.3	367.5	367.3	367.1					
G3.0	366.6	367.0	367.2	366.9	366.6					
G4.0	366.2	366.5	366.7	366.2	366.2					
G5.0	365.5	365.9	366.0	365.5	365.5					
G6.0	364.8	365.2	365.2	364.6	364.8					
G7.0	363.8	364.5	364.5	363.7	363.8					
G8.0	362.9	363.6	363.5	362.6	362.9					
G9.0	361.6	362.6	362.3	361.4	361.6					
G10.0	360.3	361.3	361.0	360.1	360.3					
G11.0	359.0	360.1	359.7	358.7	359.0					
G12.0	357.5	358.7	358.2	357.0	357.5					
G13.0	355.9	357.1	356.6	355.4	355.9					
G14.0	354.2	355.6	354.9	353.8	354.2					
G15.0	352.4	353.9	353.0	351.7	352.4					
G16.0	350.2	352.1	351.1	349.8	350.2					
G17.0	348.1	350.0	349.1	347.6	348.1					
G18.0	345.9	347.9	347.0	345.1	345.9					
G19.0	343.4	345.7	344.4	342.8	343.4					
G20.0	340.9	343.3	342.0	340.4	340.9					
G21.0	338.5	340.9	339.5	337.6	338.5					
G22.0	335.5	338.5	336.8	334.9	335.5					
G23.0	332.8	335.6	333.8	332.2	332.8					
G24.0	329.6	332.8	330.9	329.2	329.6					
G25.0	326.6	330.0	328.0	326.0	326.6					
G26.0	323.5	326.7	324.4	322.9	323.5					
G27.0	320.3	323.5	321.3	319.6	320.3					
G28.0	316.9	320.4	318.0	316.0	316.9					
G29.0	313.3	316.9	314.2	312.6	313.3					
G30.0	309.7	313.5	310.6	308.9	309.7					
G31.0	305.7	309.5	306.9	305.2	305.7					
G32.0	302.0	306.0	303.1	301.4	302.0					
G33.0	297.9	302.3	299.2	297.0	297.9					
G34.0	294.0	298.0	294.8	293.0	294.0					
G35.0	289.9	294.0	290.8	288.8	289.9					
G36.0	285.3	290.0	286.6	284.5	285.3					

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	280.9	285.4	282.1	279.8	280.9					
G38.0	276.2	280.9	277.0	274.7	276.2					
G39.0	271.4	276.2	272.1	269.8	271.4					
G40.0	266.7	271.4	267.2	264.2	266.7					
G41.0	261.1	266.4	261.6	259.2	261.1					
G42.0	256.0	260.9	256.3	254.0	256.0					
G43.0	250.8	255.8	250.9	248.6	250.8					
G44.0	245.6	250.6	245.6	242.7	245.6					
G45.0	239.8	245.4	240.0	237.2	239.8					
G46.0	234.4	239.5	234.0	231.6	234.4					
G47.0	228.8	234.1	228.3	226.0	228.8					
G48.0	222.7	228.5	222.1	219.8	222.7					
G49.0	217.1	222.9	216.3	214.1	217.1					
G50.0	211.3	216.6	210.5	208.2	211.3					
G51.0	205.5	210.8	204.0	201.8	205.5					
G52.0	199.7	204.9	198.1	195.8	199.7					
G53.0	193.2	199.1	192.1	189.8	193.2					
G54.0	187.2	192.5	185.4	183.0	187.2					
G55.0	181.2	186.6	179.2	176.9	181.2					
G56.0	174.6	180.5	173.0	170.7	174.6					
G57.0	168.5	173.8	166.0	163.7	168.5					
G58.0	162.2	167.7	159.6	157.4	162.2					
G59.0	156.0	161.5	153.3	151.0	156.0					
G60.0	149.1	154.6	146.3	144.6	149.1					
G61.0	142.8	148.3	139.9	137.5	142.8					
G62.0	136.4	141.9	133.6	131.1	136.4					
G63.0	130.0	135.5	126.5	124.0	130.0					
G64.0	122.9	128.4	120.0	117.5	122.9					
G65.0	116.4	122.0	113.6	111.0	116.4					
G66.0	109.9	115.5	106.3	103.7	109.9					
G67.0	102.9	109.1	99.9	97.2	102.9					
G68.0	96.5	102.1	93.4	90.6	96.5					
G69.0	90.0	95.6	86.3	83.4	90.0					
G70.0	83.0	88.6	79.8	76.8	83.0					
G71.0	76.7	82.2	73.4	70.3	76.7					
G72.0	70.3	75.8	67.1	63.9	70.3					
G73.0	63.4	69.5	60.4	56.9	63.4					

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	57.2	62.4	54.3	50.4	57.2					
G75.0	51.1	55.8	47.6	44.0	51.1					
G76.0	45.0	49.2	41.7	36.8	45.0					
G77.0	38.4	42.0	35.9	30.3	38.4					
G78.0	32.6	35.5	30.3	23.9	32.6					
G79.0	26.3	29.3	24.3	17.1	26.3					
G80.0	20.9	22.5	19.1	11.5	20.9					
G81.0	15.6	16.6	14.2	7.7	15.6					
G82.0	10.5	10.8	10.0	6.8	10.5					
G83.0	8.9	7.8	7.9	5.8	8.9					
G84.0	8.1	6.9	7.2	4.8	8.1					
G85.0	7.2	6.0	6.4	3.8	7.2					
G86.0	6.3	5.1	5.5	3.0	6.3					
G87.0	5.5	4.3	4.8	2.2	5.5					
G88.0	4.7	3.4	4.1	1.9	4.7					
G89.0	3.9	2.6	3.3	1.9	3.9					
G90.0	3.4	2.3	2.9	2.0	3.4					
G91.0	3.4	2.3	3.0	2.1	3.4					
G92.0	3.4	2.3	3.1	2.2	3.4					
G93.0	3.4	2.4	3.2	2.3	3.4					
G94.0	3.4	2.4	3.2	2.3	3.4					
G95.0	3.4	2.4	3.3	2.4	3.4					
G96.0	3.3	2.3	3.3	2.4	3.3					
G97.0	3.3	2.3	3.2	2.4	3.3					
G98.0	3.2	2.4	3.2	2.4	3.2					
G99.0	3.2	2.4	3.2	2.3	3.2					
G100.0	3.2	2.4	3.2	2.3	3.2					
G101.0	3.2	2.3	3.1	2.3	3.2					
G102.0	3.1	2.3	3.1	2.3	3.1					
G103.0	3.1	2.3	3.1	2.3	3.1					
G104.0	3.1	2.4	3.1	2.3	3.1					
G105.0	3.1	2.4	3.1	2.4	3.1					
G106.0	3.1	2.4	3.0	2.4	3.1					
G107.0	3.1	2.4	3.0	2.3	3.1					
G108.0	3.1	2.5	3.0	2.3	3.1					
G109.0	3.2	2.5	3.1	2.4	3.2					
G110.0	3.2	2.5	3.1	2.4	3.2					

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	3.2	2.5	3.1	2.4	3.2					
G112.0	3.3	2.6	3.1	2.4	3.3					
G113.0	3.3	2.6	3.1	2.5	3.3					
G114.0	3.4	2.6	3.1	2.5	3.4					
G115.0	3.4	2.6	3.2	2.5	3.4					
G116.0	3.4	2.7	3.2	2.6	3.4					
G117.0	3.4	2.8	3.2	2.6	3.4					
G118.0	3.5	2.8	3.2	2.6	3.5					
G119.0	3.5	2.8	3.3	2.7	3.5					
G120.0	3.5	2.9	3.3	2.7	3.5					
G121.0	3.5	2.9	3.3	2.7	3.5					
G122.0	3.6	3.0	3.4	2.8	3.6					
G123.0	3.6	3.0	3.4	2.8	3.6					
G124.0	3.6	3.0	3.4	2.8	3.6					
G125.0	3.6	3.1	3.4	2.9	3.6					
G126.0	3.7	3.1	3.5	2.9	3.7					
G127.0	3.7	3.2	3.5	2.9	3.7					
G128.0	3.7	3.2	3.5	3.0	3.7					
G129.0	3.8	3.2	3.5	3.1	3.8					
G130.0	3.8	3.3	3.6	3.1	3.8					
G131.0	3.8	3.3	3.6	3.2	3.8					
G132.0	3.9	3.4	3.6	3.2	3.9					
G133.0	3.9	3.5	3.6	3.2	3.9					
G134.0	3.9	3.5	3.7	3.3	3.9					
G135.0	3.9	3.5	3.7	3.4	3.9					
G136.0	4.0	3.6	3.8	3.4	4.0					
G137.0	4.0	3.6	3.8	3.5	4.0					
G138.0	4.0	3.7	3.9	3.5	4.0					
G139.0	4.0	3.7	3.8	3.6	4.0					
G140.0	4.1	3.8	3.9	3.6	4.1					
G141.0	4.1	3.8	3.9	3.7	4.1					
G142.0	4.1	3.9	3.9	3.7	4.1					
G143.0	4.2	3.9	4.0	3.8	4.2					
G144.0	4.2	3.9	4.0	3.8	4.2					
G145.0	4.2	4.0	4.0	3.9	4.2					
G146.0	4.3	4.0	4.0	3.9	4.3					
G147.0	4.3	4.0	4.1	4.0	4.3					

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	4.4	4.1	4.1	4.0	4.4					
G149.0	4.4	4.1	4.1	4.1	4.4					
G150.0	4.4	4.2	4.2	4.1	4.4					
G151.0	4.5	4.2	4.3	4.2	4.5					
G152.0	4.5	4.3	4.3	4.2	4.5					
G153.0	4.5	4.3	4.4	4.2	4.5					
G154.0	4.6	4.4	4.4	4.3	4.6					
G155.0	4.6	4.4	4.5	4.4	4.6					
G156.0	4.7	4.4	4.5	4.4	4.7					
G157.0	4.7	4.5	4.6	4.4	4.7					
G158.0	4.8	4.5	4.7	4.5	4.8					
G159.0	4.9	4.6	4.7	4.6	4.9					
G160.0	4.9	4.7	4.8	4.6	4.9					
G161.0	5.0	4.7	4.8	4.7	5.0					
G162.0	5.0	4.7	4.9	4.7	5.0					
G163.0	5.2	4.8	5.0	4.7	5.2					
G164.0	5.2	4.8	5.0	4.8	5.2					
G165.0	5.3	4.9	5.1	4.9	5.3					
G166.0	5.4	5.0	5.2	4.9	5.4					
G167.0	5.5	5.1	5.3	5.0	5.5					
G168.0	5.6	5.2	5.4	5.1	5.6					
G169.0	5.8	5.3	5.5	5.2	5.8					
G170.0	6.0	5.4	5.6	5.3	6.0					
G171.0	6.2	5.6	5.7	5.4	6.2					
G172.0	6.4	5.7	5.8	5.5	6.4					
G173.0	6.7	5.9	6.0	5.6	6.7					
G174.0	6.9	6.3	6.2	5.8	6.9					
G175.0	7.2	7.0	6.4	6.0	7.2					
G176.0	7.6	7.6	6.7	6.5	7.6					
G177.0	8.0	8.1	7.0	7.2	8.0					
G178.0	8.1	8.6	7.3	7.8	8.1					
G179.0	8.2	8.9	7.8	8.2	8.2					
G180.0	8.1	8.7	8.1	8.7	8.1					

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector: