

Report No.: TH-1539A

Test Time: 2020/7/28 16:23

Luminaire Property

Luminaire Manufacturer: HAVIT COMMERCIAL

Luminaire Description: HCP-88X1804-5K

Luminous Width (mm): -75

Current: 0.095 A

Power Factor: 0.873

Luminous Length (mm): -75

Voltage: 220.0 V

Power: 18.23 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1485.4 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H40.4

Vertical Diffuse Angle(50%): V40.6

Luminaire Efficacy Rating (LER): 81.53

Max. Intensity: 2719.29 cd

S/MH(C0/C180): 0.64

Total Rated Lamp Lumens: 1485.4 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 2719.29 cd

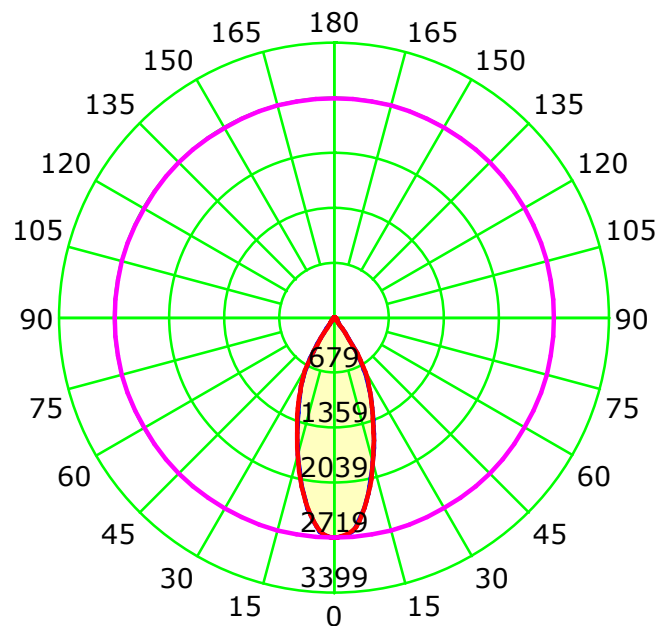
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.64

Picture Of Luminaire



Luminous Intensity Distribution Curve


Unit: cd
Average Diffuse Angle(50%): 40.5°

— C0-C180 — C90-C270 — G0

C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instrument

Test Type: TYPE C

Temperature: 26

Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0

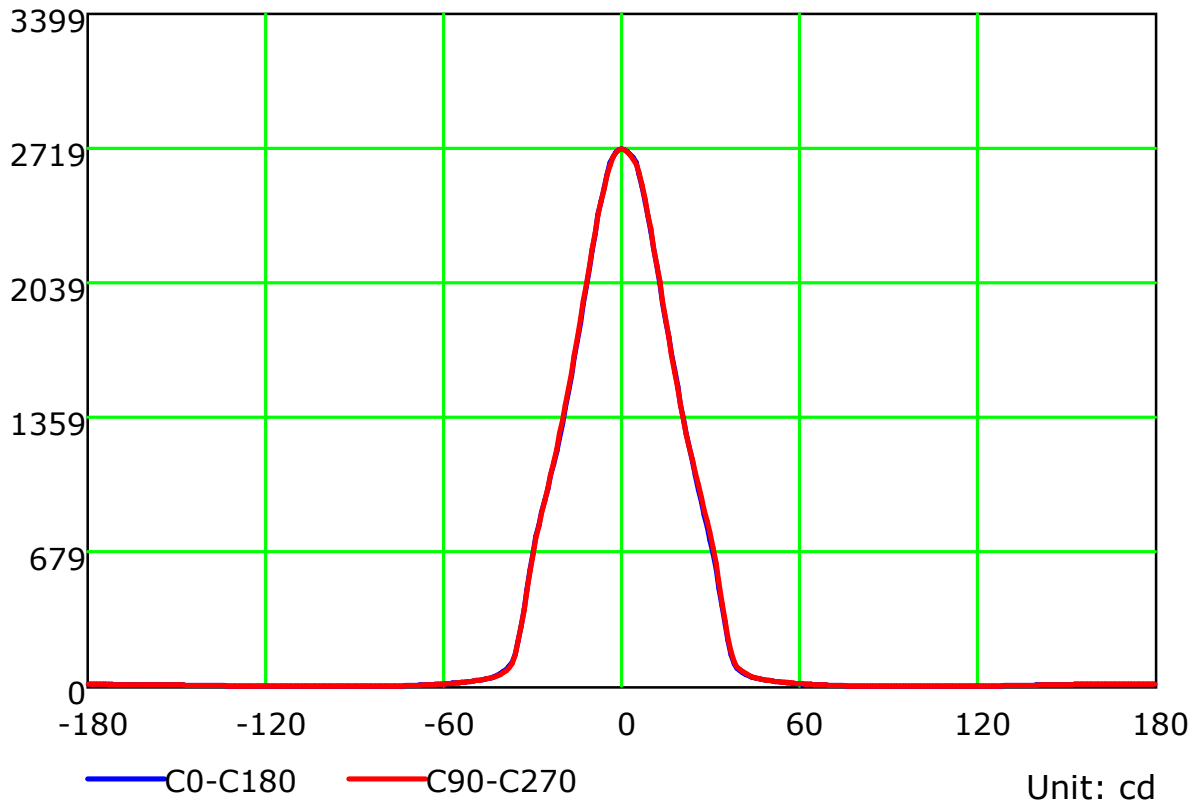
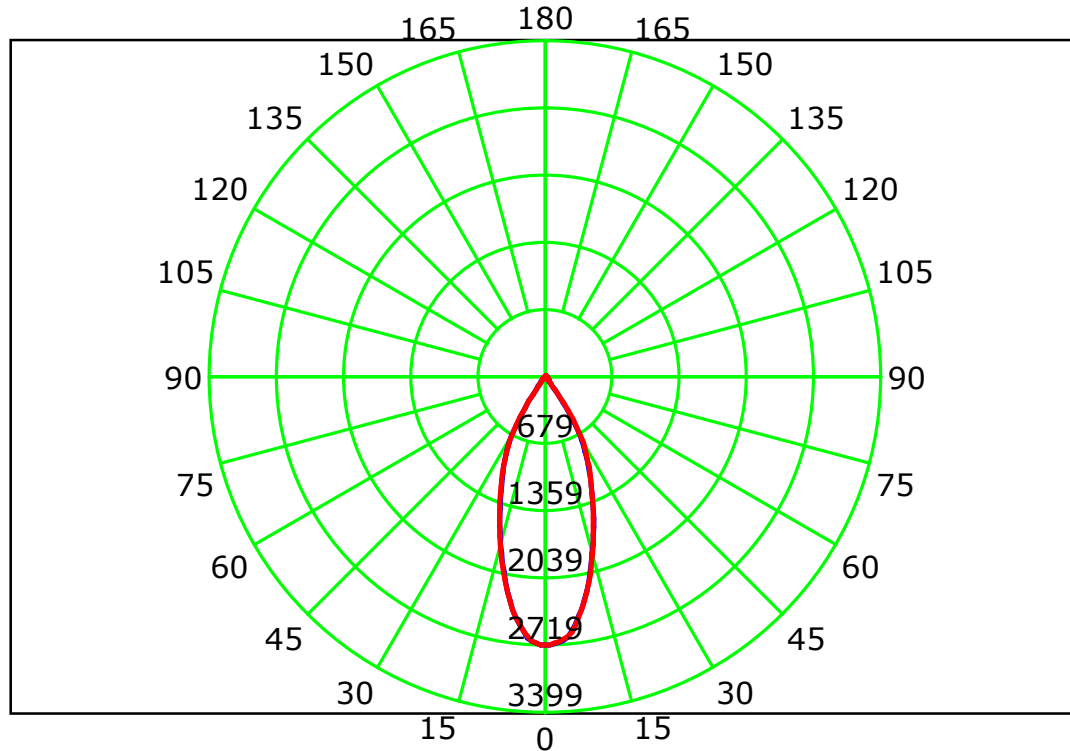
Test Device: GPM-1800B

Distance: 8.598 m

Humidity: 65

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0
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Temperature: 26
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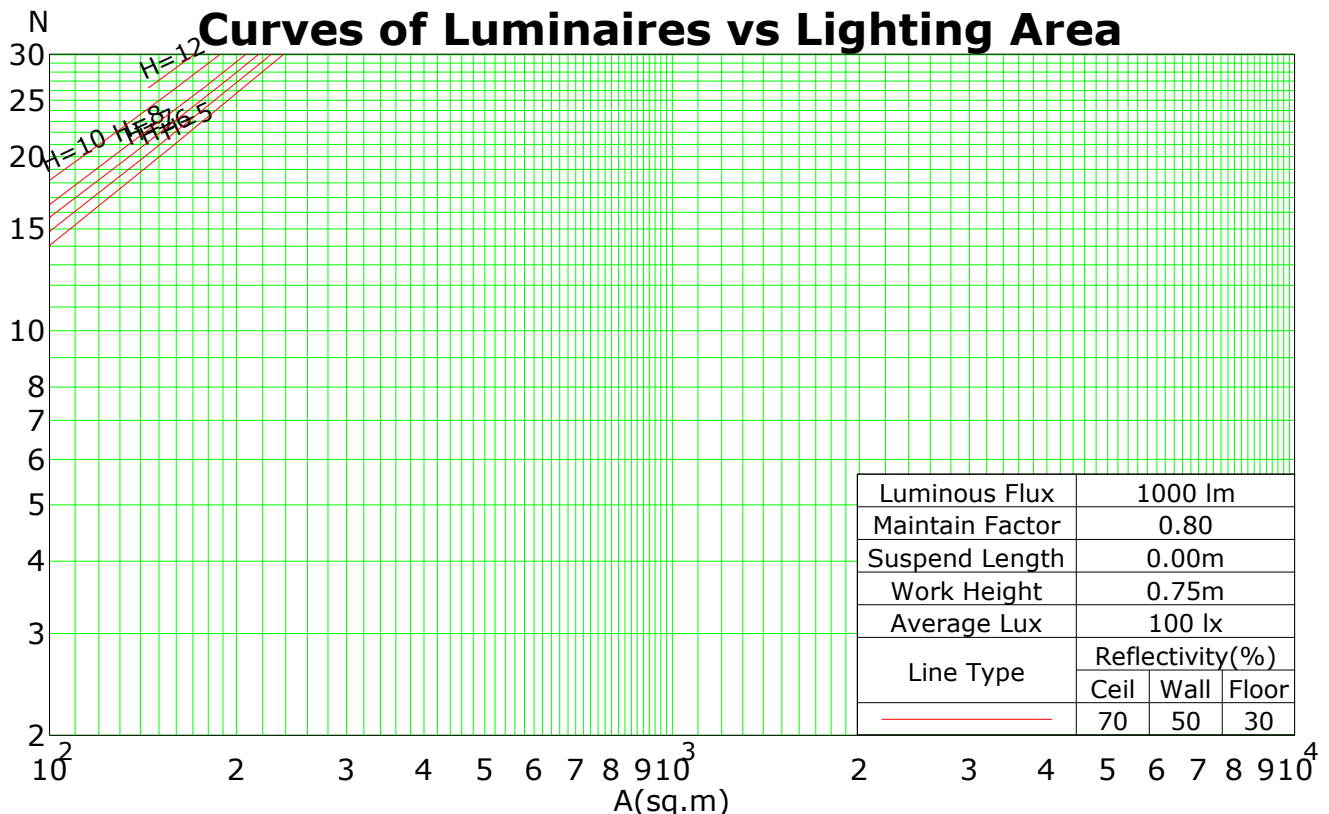
Coefficients Of Utilization - Zonal Cavity Method

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	114	111	109	107	111	109	107	105	105	103	101	101	99	98	97	96	95	93
2	109	104	100	97	106	102	99	96	99	96	94	96	93	92	93	91	89	88
3	104	98	93	90	102	96	92	89	94	90	87	91	88	86	89	86	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	79	78
5	95	87	82	78	93	86	81	77	84	80	77	82	79	76	81	78	75	74
6	91	82	77	73	89	82	77	73	80	76	72	79	75	72	77	74	71	70
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66
8	83	74	69	65	82	74	69	65	73	68	65	72	68	64	71	67	64	63
9	80	71	66	62	79	70	65	62	69	65	62	69	64	61	68	64	61	60
10	77	68	62	59	76	67	62	59	66	62	59	66	61	58	65	61	58	57

Spacing Criteria (0-180): 0.64

Spacing Criteria (90-270): 0.64

Spacing Criteria (Diagonal): 0.70



C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instrument

Test Type: TYPE C

Temperature: 26

Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0

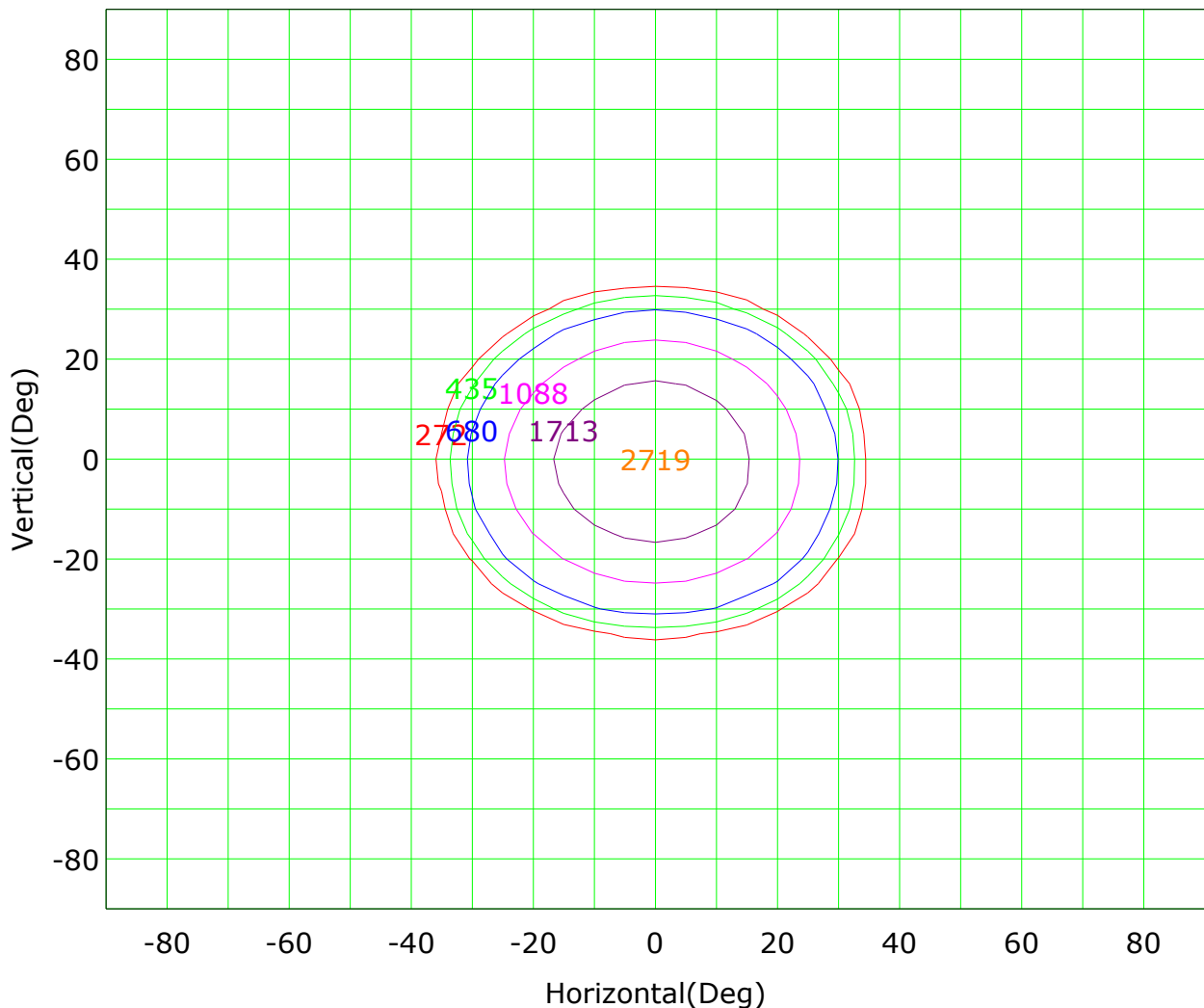
Test Device: GPM-1800B

Distance: 8.598 m

Humidity: 65

Inspector:

Isocandela (rectangle)

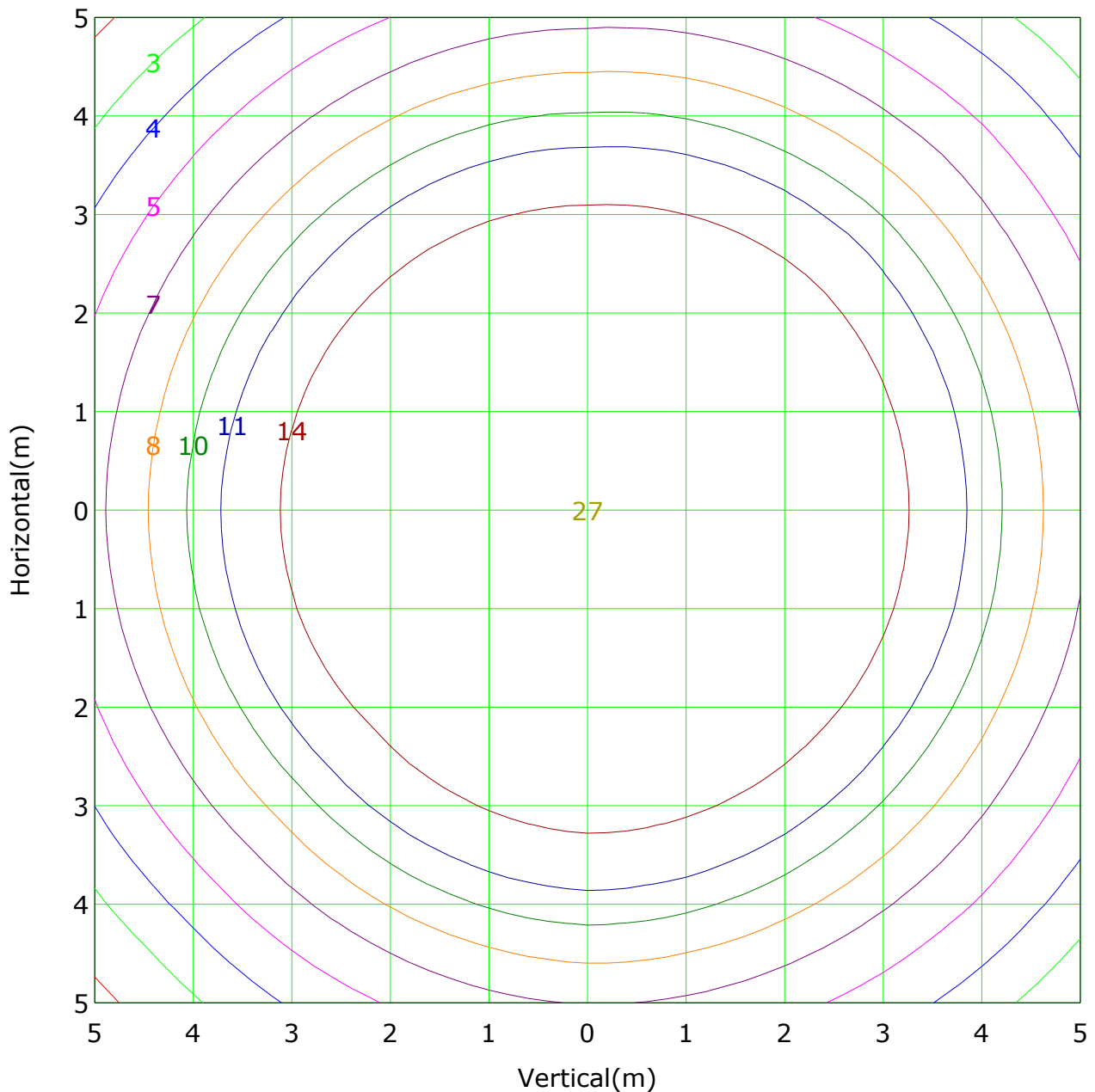


Imax (100%): 2719 cd

(10%): 272 cd
(25%): 680 cd
(63%): 1713 cd

(16%): 435 cd
(40%): 1088 cd
(100%): 2719 cd

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 27.2 lx	
(5%):	1.4 lx	(10%):	2.7 lx
(15%):	4.1 lx	(20%):	5.4 lx
(25%):	6.8 lx	(30%):	8.2 lx
(35%):	9.5 lx	(40%):	10.9 lx
(50%):	13.6 lx	(100%):	27.2 lx

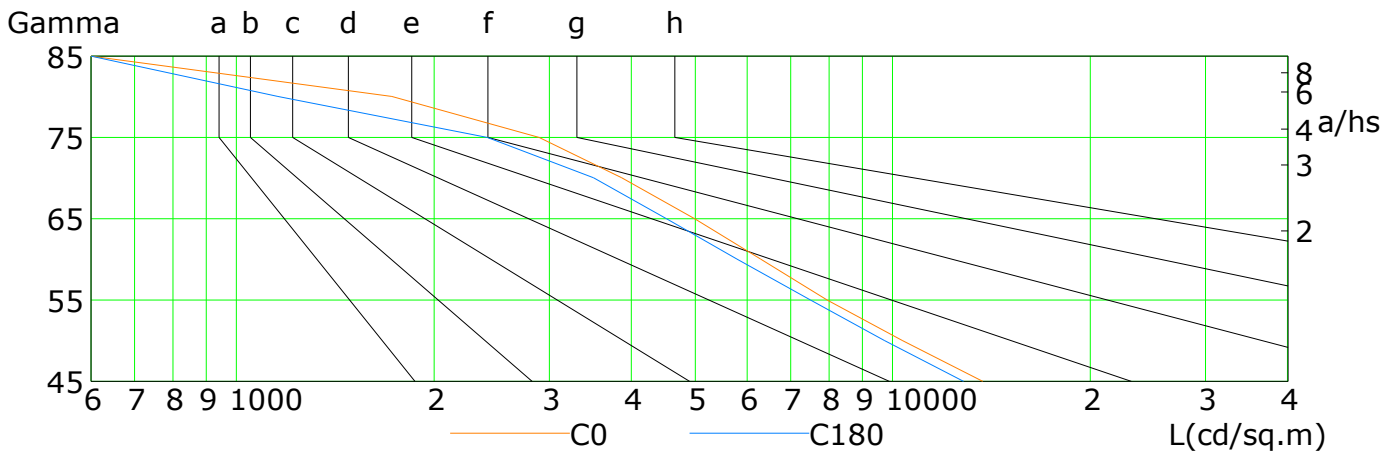
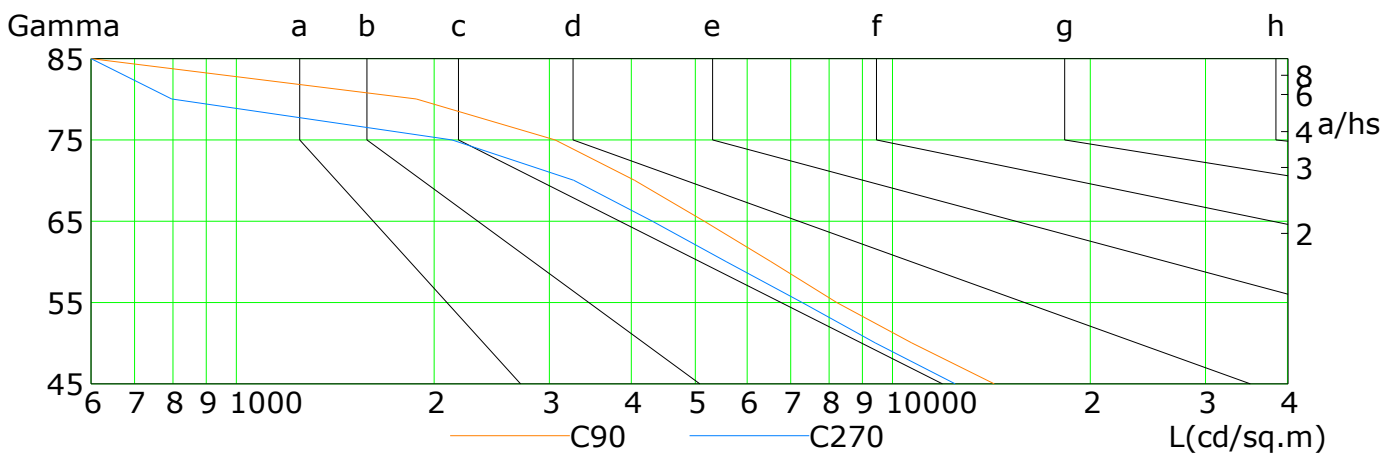
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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

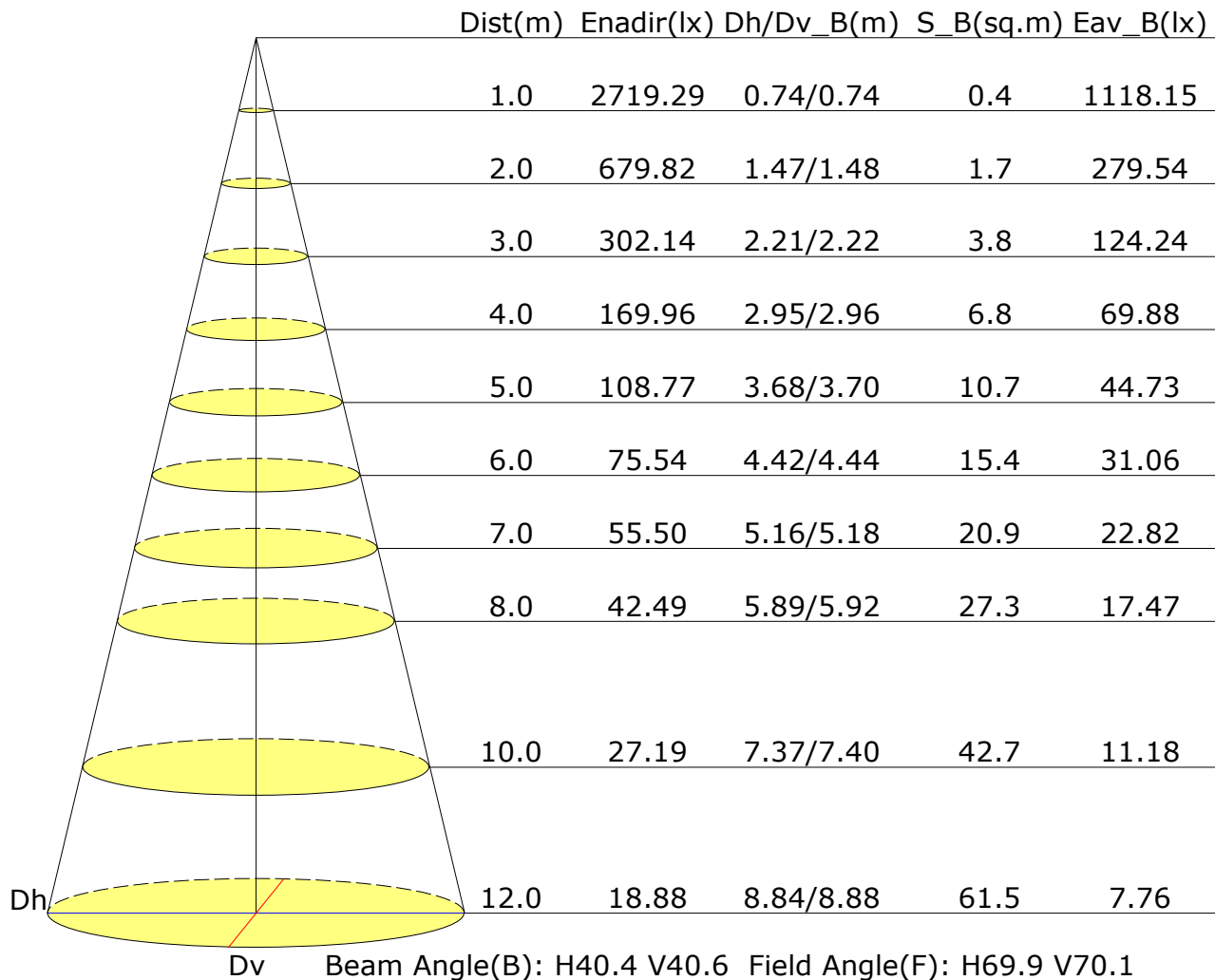


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13711	10348	7941	6291	4989	3870	2892	1727	0
C90	14291	10682	8230	6528	5169	4039	3058	1881	0
C180	12828	9706	7504	5790	4519	3500	2413	1156	0
C270	12443	9411	7289	5576	4305	3269	2130	796	0

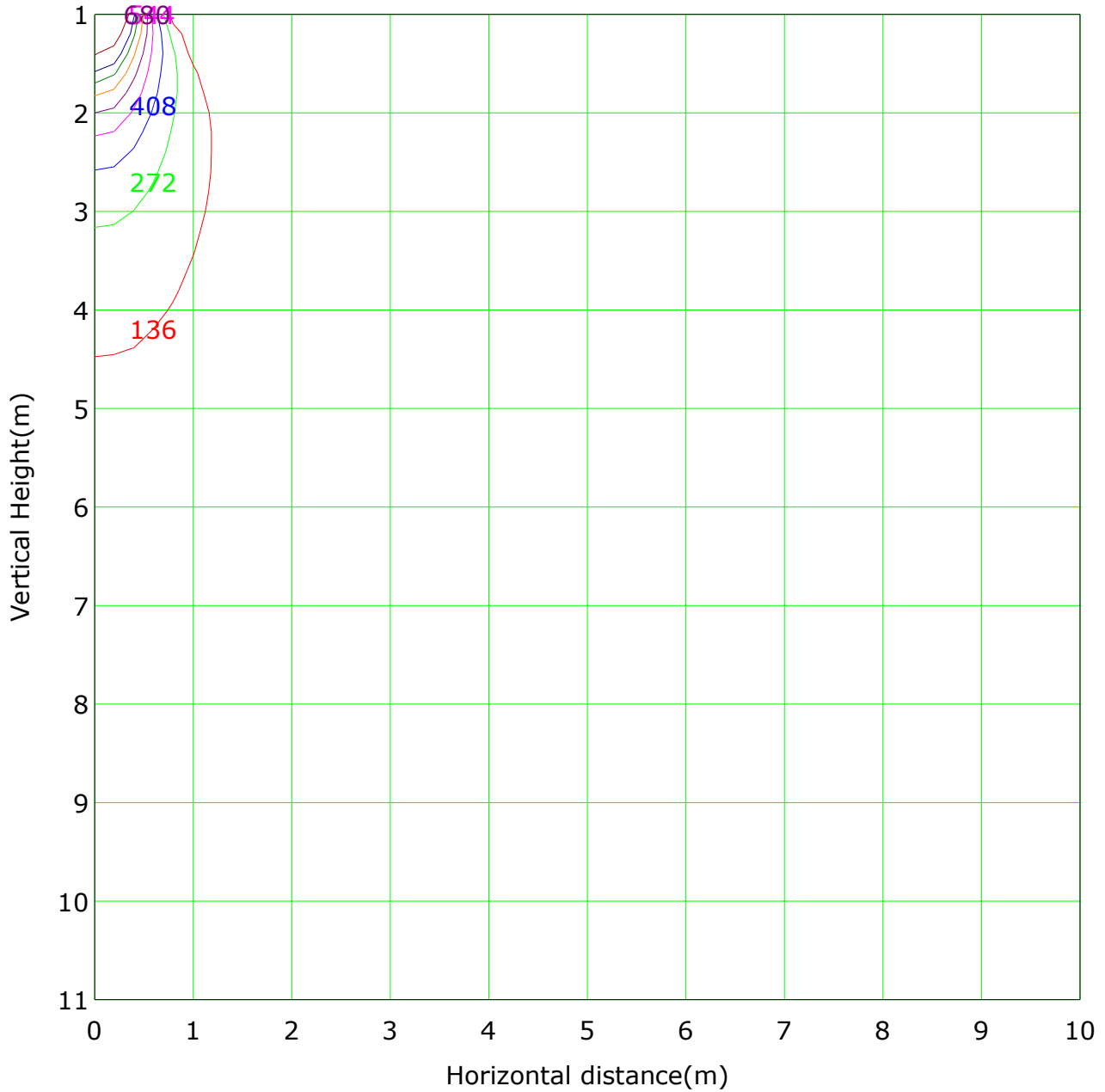
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

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

Illuminance at a Distance



Vertical IsoLux Plot

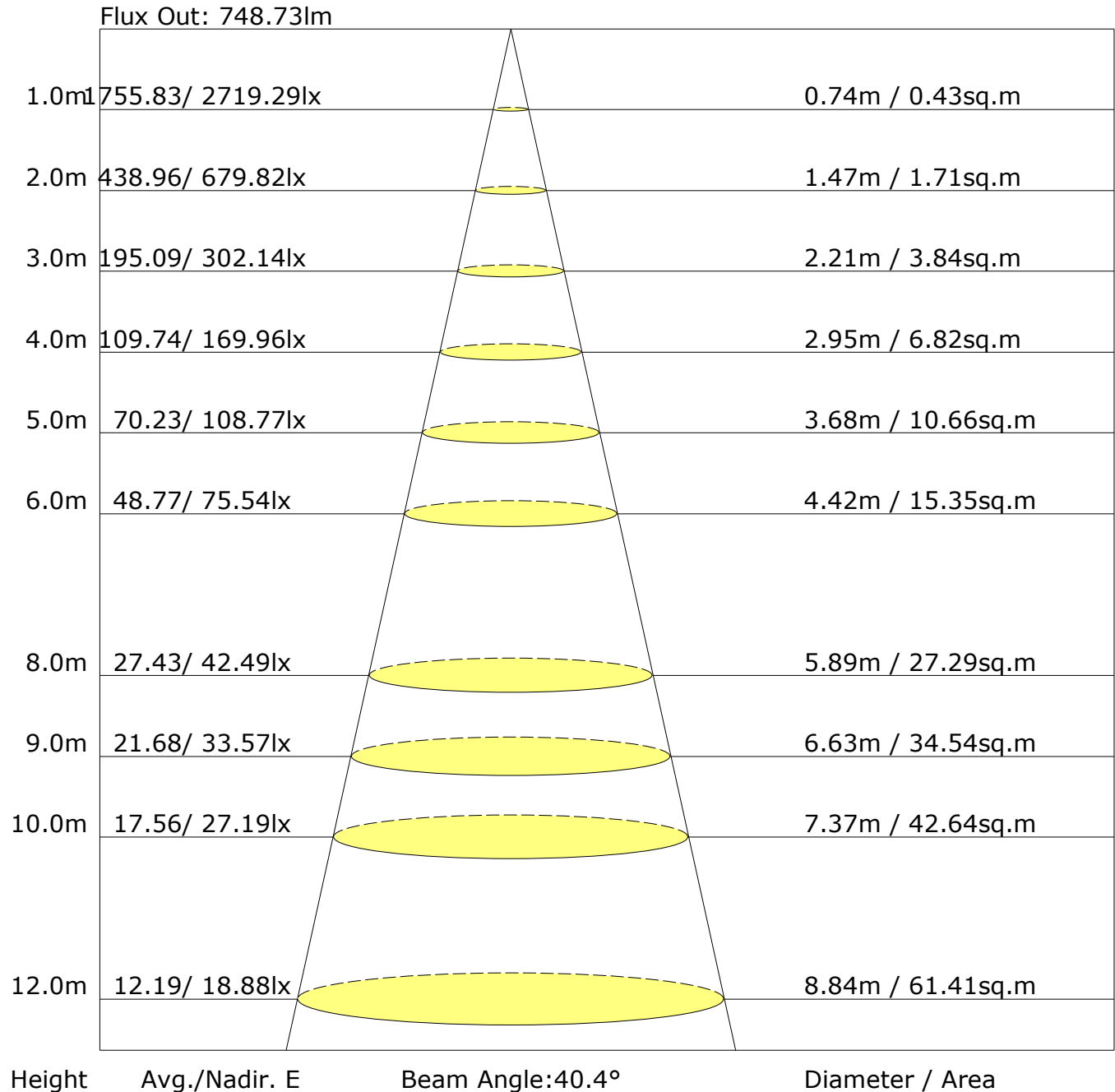


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 2719.3 lx
(5%): 136.0 lx	(10%): 271.9 lx	
(15%): 407.9 lx	(20%): 543.9 lx	
(25%): 679.8 lx	(30%): 815.8 lx	
(35%): 951.8 lx	(40%): 1087.7 lx	
(50%): 1359.6 lx	(100%): 2719.3 lx	

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 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	17.9	18.7	18.2	18.9	19.1	17.6	18.4	17.9	18.6	18.8
3H	17.9	18.6	18.2	18.8	19.1	17.6	18.3	17.9	18.5	18.8
4H	17.8	18.5	18.1	18.8	19.0	17.5	18.2	17.9	18.5	18.8
6H	17.8	18.4	18.1	18.7	19.0	17.5	18.1	17.8	18.4	18.7
8H	17.7	18.3	18.1	18.6	19.0	17.4	18.0	17.8	18.3	18.7
12H	17.7	18.2	18.1	18.6	18.9	17.4	17.9	17.8	18.3	18.6
X=4H Y=2H	17.7	18.4	18.1	18.7	19.0	17.5	18.1	17.8	18.4	18.7
3H	17.7	18.3	18.1	18.6	19.0	17.5	18.0	17.8	18.3	18.7
4H	17.7	18.2	18.1	18.6	18.9	17.4	17.9	17.8	18.3	18.7
6H	17.6	18.1	18.1	18.5	18.9	17.4	17.8	17.8	18.2	18.6
8H	17.6	18.0	18.0	18.4	18.8	17.3	17.7	17.8	18.1	18.6
12H	17.6	17.9	18.0	18.3	18.8	17.3	17.6	17.7	18.1	18.5
X=8H Y=4H	17.6	18.0	18.0	18.4	18.8	17.3	17.7	17.8	18.1	18.6
6H	17.5	17.9	18.0	18.3	18.8	17.3	17.6	17.7	18.0	18.5
8H	17.5	17.8	18.0	18.2	18.7	17.2	17.5	17.7	18.0	18.5
12H	17.4	17.7	18.0	18.2	18.7	17.2	17.4	17.7	17.9	18.4
X=12H Y=4H	17.5	17.9	18.0	18.3	18.8	17.3	17.6	17.7	18.1	18.5
6H	17.5	17.8	18.0	18.2	18.7	17.2	17.5	17.7	18.0	18.5
8H	17.4	17.7	18.0	18.2	18.7	17.2	17.4	17.7	17.9	18.4
Variations with the observer position at spacings:										
S=1.0H	+5.8/-6.1					+5.6/-5.0				
S=1.5H	+8.5/-7.2					+8.4/-6.2				
S=2.0H	+10.5/-8.1					+10.4/-7.4				

Calculate in accordance with CIE Pub.117. The table is revised with 1485lm ($8\log(F/F_0) = 1.4$).

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	2716.6	2.6	2.6	0.18	0.18
1.0-2.0	2707.8	7.8	10.4	0.52	0.70
2.0-3.0	2693.7	12.9	23.3	0.87	1.57
3.0-4.0	2671.6	17.9	41.1	1.20	2.77
4.0-5.0	2636.3	22.7	63.8	1.53	4.30
5.0-6.0	2587.3	27.2	91.0	1.83	6.13
6.0-7.0	2526.9	31.4	122.4	2.11	8.24
7.0-8.0	2457.5	35.2	157.6	2.37	10.61
8.0-9.0	2378.9	38.6	196.1	2.60	13.20
9.0-10.0	2296.0	41.6	237.7	2.80	16.00
10.0-11.0	2210.7	44.2	281.9	2.97	18.98
11.0-12.0	2122.0	46.4	328.3	3.12	22.10
12.0-13.0	2031.9	48.2	376.5	3.25	25.35
13.0-14.0	1940.0	49.7	426.1	3.34	28.69
14.0-15.0	1849.2	50.8	476.9	3.42	32.11
15.0-16.0	1760.4	51.6	528.5	3.47	35.58
16.0-17.0	1671.9	52.1	580.6	3.51	39.09
17.0-18.0	1585.8	52.3	632.9	3.52	42.61
18.0-19.0	1501.5	52.2	685.1	3.52	46.12
19.0-20.0	1419.6	52.0	737.1	3.50	49.62
20.0-21.0	1341.5	51.5	788.6	3.47	53.09
21.0-22.0	1269.1	51.0	839.6	3.43	56.52
22.0-23.0	1201.1	50.4	890.0	3.39	59.92
23.0-24.0	1135.3	49.6	939.7	3.34	63.26
24.0-25.0	1070.2	48.7	988.3	3.28	66.54
25.0-26.0	1004.8	47.4	1035.8	3.19	69.73
26.0-27.0	941.3	46.1	1081.8	3.10	72.83
27.0-28.0	878.9	44.5	1126.3	3.00	75.83
28.0-29.0	816.9	42.7	1169.1	2.88	78.70
29.0-30.0	751.7	40.6	1209.7	2.73	81.44
30.0-31.0	677.3	37.7	1247.4	2.54	83.97
31.0-32.0	591.6	33.9	1281.3	2.28	86.26
32.0-33.0	498.9	29.4	1310.6	1.98	88.24
33.0-34.0	405.9	24.6	1335.2	1.65	89.89
34.0-35.0	318.0	19.8	1355.0	1.33	91.22
35.0-36.0	238.7	15.2	1370.2	1.02	92.24

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
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	173.3	11.3	1381.5	0.76	93.00
37.0-38.0	127.0	8.5	1390.0	0.57	93.57
38.0-39.0	99.2	6.8	1396.7	0.46	94.03
39.0-40.0	83.4	5.8	1402.5	0.39	94.42
40.0-41.0	72.6	5.2	1407.7	0.35	94.77
41.0-42.0	63.5	4.6	1412.3	0.31	95.08
42.0-43.0	55.3	4.1	1416.4	0.28	95.36
43.0-44.0	48.8	3.7	1420.1	0.25	95.60
44.0-45.0	43.8	3.4	1423.5	0.23	95.83
45.0-46.0	39.9	3.1	1426.6	0.21	96.04
46.0-47.0	36.8	2.9	1429.5	0.20	96.24
47.0-48.0	34.2	2.8	1432.3	0.19	96.42
48.0-49.0	31.8	2.6	1434.9	0.18	96.60
49.0-50.0	29.6	2.5	1437.4	0.17	96.77
50.0-51.0	27.4	2.3	1439.7	0.16	96.92
51.0-52.0	25.5	2.2	1441.9	0.15	97.07
52.0-53.0	23.7	2.1	1443.9	0.14	97.21
53.0-54.0	22.0	1.9	1445.9	0.13	97.34
54.0-55.0	20.4	1.8	1447.7	0.12	97.46
55.0-56.0	18.9	1.7	1449.4	0.12	97.58
56.0-57.0	17.5	1.6	1451.0	0.11	97.68
57.0-58.0	16.2	1.5	1452.5	0.10	97.79
58.0-59.0	15.0	1.4	1453.9	0.09	97.88
59.0-60.0	13.9	1.3	1455.2	0.09	97.97
60.0-61.0	12.8	1.2	1456.4	0.08	98.05
61.0-62.0	11.8	1.1	1457.6	0.08	98.13
62.0-63.0	10.9	1.1	1458.6	0.07	98.20
63.0-64.0	10.1	1.0	1459.6	0.07	98.26
64.0-65.0	9.3	0.9	1460.5	0.06	98.33
65.0-66.0	8.5	0.8	1461.4	0.06	98.38
66.0-67.0	7.8	0.8	1462.2	0.05	98.44
67.0-68.0	7.1	0.7	1462.9	0.05	98.48
68.0-69.0	6.4	0.7	1463.5	0.04	98.53
69.0-70.0	5.8	0.6	1464.1	0.04	98.57
70.0-71.0	5.2	0.5	1464.7	0.04	98.60
71.0-72.0	4.7	0.5	1465.2	0.03	98.64

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Test Device: GPM-1800B
Distance: 8.598 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	4.2	0.4	1465.6	0.03	98.67
73.0-74.0	3.7	0.4	1466.0	0.03	98.69
74.0-75.0	3.2	0.3	1466.3	0.02	98.72
75.0-76.0	2.8	0.3	1466.6	0.02	98.74
76.0-77.0	2.4	0.3	1466.9	0.02	98.75
77.0-78.0	2.0	0.2	1467.1	0.01	98.77
78.0-79.0	1.6	0.2	1467.3	0.01	98.78
79.0-80.0	1.2	0.1	1467.4	0.01	98.79
80.0-81.0	0.9	0.1	1467.5	0.01	98.79
81.0-82.0	0.6	0.1	1467.6	0.00	98.80
82.0-83.0	0.3	0.0	1467.6	0.00	98.80
83.0-84.0	0.1	0.0	1467.6	0.00	98.80
84.0-85.0	0.0	0.0	1467.6	0.00	98.80
85.0-86.0	0.0	0.0	1467.6	0.00	98.80
86.0-87.0	0.0	0.0	1467.6	0.00	98.80
87.0-88.0	0.0	0.0	1467.6	0.00	98.80
88.0-89.0	0.0	0.0	1467.6	0.00	98.80
89.0-90.0	0.0	0.0	1467.6	0.00	98.80
90.0-91.0	0.0	0.0	1467.6	0.00	98.80
91.0-92.0	0.0	0.0	1467.6	0.00	98.80
92.0-93.0	0.0	0.0	1467.6	0.00	98.80
93.0-94.0	0.0	0.0	1467.6	0.00	98.80
94.0-95.0	0.0	0.0	1467.6	0.00	98.80
95.0-96.0	0.0	0.0	1467.6	0.00	98.80
96.0-97.0	0.0	0.0	1467.6	0.00	98.80
97.0-98.0	0.0	0.0	1467.6	0.00	98.80
98.0-99.0	0.0	0.0	1467.6	0.00	98.80
99.0-100.0	0.0	0.0	1467.6	0.00	98.80
100.0-101.0	0.0	0.0	1467.6	0.00	98.80
101.0-102.0	0.0	0.0	1467.6	0.00	98.80
102.0-103.0	0.0	0.0	1467.6	0.00	98.80
103.0-104.0	0.0	0.0	1467.6	0.00	98.80
104.0-105.0	0.0	0.0	1467.6	0.00	98.80
105.0-106.0	0.0	0.0	1467.6	0.00	98.80
106.0-107.0	0.0	0.0	1467.6	0.00	98.80
107.0-108.0	0.0	0.0	1467.6	0.00	98.80

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Test Device: GPM-1800B
Distance: 8.598 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	0.1	0.0	1467.6	0.00	98.80
109.0-110.0	0.1	0.0	1467.6	0.00	98.80
110.0-111.0	0.2	0.0	1467.6	0.00	98.80
111.0-112.0	0.2	0.0	1467.7	0.00	98.81
112.0-113.0	0.3	0.0	1467.7	0.00	98.81
113.0-114.0	0.4	0.0	1467.7	0.00	98.81
114.0-115.0	0.4	0.0	1467.8	0.00	98.81
115.0-116.0	0.5	0.1	1467.8	0.00	98.82
116.0-117.0	0.6	0.1	1467.9	0.00	98.82
117.0-118.0	0.8	0.1	1468.0	0.00	98.83
118.0-119.0	0.9	0.1	1468.0	0.01	98.83
119.0-120.0	1.0	0.1	1468.1	0.01	98.84
120.0-121.0	1.2	0.1	1468.2	0.01	98.85
121.0-122.0	1.3	0.1	1468.4	0.01	98.85
122.0-123.0	1.5	0.1	1468.5	0.01	98.86
123.0-124.0	1.7	0.2	1468.7	0.01	98.87
124.0-125.0	1.8	0.2	1468.8	0.01	98.88
125.0-126.0	2.0	0.2	1469.0	0.01	98.90
126.0-127.0	2.3	0.2	1469.2	0.01	98.91
127.0-128.0	2.5	0.2	1469.4	0.01	98.92
128.0-129.0	2.7	0.2	1469.7	0.02	98.94
129.0-130.0	2.9	0.2	1469.9	0.02	98.96
130.0-131.0	3.1	0.3	1470.2	0.02	98.97
131.0-132.0	3.4	0.3	1470.4	0.02	98.99
132.0-133.0	3.6	0.3	1470.7	0.02	99.01
133.0-134.0	3.9	0.3	1471.0	0.02	99.03
134.0-135.0	4.1	0.3	1471.4	0.02	99.05
135.0-136.0	4.4	0.3	1471.7	0.02	99.08
136.0-137.0	4.6	0.3	1472.0	0.02	99.10
137.0-138.0	4.9	0.4	1472.4	0.02	99.12
138.0-139.0	5.2	0.4	1472.8	0.03	99.15
139.0-140.0	5.5	0.4	1473.2	0.03	99.18
140.0-141.0	5.7	0.4	1473.6	0.03	99.20
141.0-142.0	6.0	0.4	1474.0	0.03	99.23
142.0-143.0	6.3	0.4	1474.4	0.03	99.26
143.0-144.0	6.5	0.4	1474.8	0.03	99.29

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	6.8	0.4	1475.3	0.03	99.32
145.0-146.0	7.1	0.4	1475.7	0.03	99.35
146.0-147.0	7.3	0.4	1476.1	0.03	99.38
147.0-148.0	7.6	0.4	1476.6	0.03	99.41
148.0-149.0	7.8	0.4	1477.0	0.03	99.44
149.0-150.0	8.0	0.4	1477.5	0.03	99.47
150.0-151.0	8.2	0.4	1477.9	0.03	99.50
151.0-152.0	8.4	0.4	1478.4	0.03	99.53
152.0-153.0	8.6	0.4	1478.8	0.03	99.56
153.0-154.0	8.8	0.4	1479.2	0.03	99.59
154.0-155.0	9.0	0.4	1479.7	0.03	99.61
155.0-156.0	9.1	0.4	1480.1	0.03	99.64
156.0-157.0	9.3	0.4	1480.5	0.03	99.67
157.0-158.0	9.4	0.4	1480.9	0.03	99.70
158.0-159.0	9.5	0.4	1481.3	0.03	99.72
159.0-160.0	9.6	0.4	1481.6	0.02	99.75
160.0-161.0	9.7	0.4	1482.0	0.02	99.77
161.0-162.0	9.7	0.3	1482.3	0.02	99.79
162.0-163.0	9.8	0.3	1482.7	0.02	99.81
163.0-164.0	9.8	0.3	1483.0	0.02	99.84
164.0-165.0	9.9	0.3	1483.2	0.02	99.85
165.0-166.0	10.0	0.3	1483.5	0.02	99.87
166.0-167.0	10.0	0.3	1483.8	0.02	99.89
167.0-168.0	10.0	0.2	1484.0	0.02	99.91
168.0-169.0	10.0	0.2	1484.2	0.01	99.92
169.0-170.0	10.1	0.2	1484.4	0.01	99.93
170.0-171.0	10.1	0.2	1484.6	0.01	99.95
171.0-172.0	10.1	0.2	1484.8	0.01	99.96
172.0-173.0	10.1	0.1	1484.9	0.01	99.97
173.0-174.0	10.2	0.1	1485.1	0.01	99.98
174.0-175.0	10.2	0.1	1485.2	0.01	99.98
175.0-176.0	10.2	0.1	1485.2	0.01	99.99
176.0-177.0	10.2	0.1	1485.3	0.00	99.99
177.0-178.0	10.2	0.0	1485.4	0.00	100.00
178.0-179.0	10.2	0.0	1485.4	0.00	100.00
179.0-180.0	10.2	0.0	1485.4	0.00	100.00

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
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	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	
G1.0	2714.8	2714.1	2714.3	2714.0	2714.4	2714.7	2714.2	2711.4	2714.8	
G2.0	2704.9	2706.6	2701.5	2701.8	2700.4	2701.1	2699.3	2697.1	2704.9	
G3.0	2693.1	2692.2	2689.7	2689.3	2680.3	2686.2	2678.2	2677.3	2693.1	
G4.0	2676.3	2673.2	2666.6	2675.7	2648.7	2655.1	2632.5	2630.7	2676.3	
G5.0	2648.9	2644.4	2638.8	2649.6	2585.5	2589.1	2583.0	2582.9	2648.9	
G6.0	2591.5	2587.0	2601.7	2614.4	2523.5	2524.1	2516.8	2515.4	2591.5	
G7.0	2526.9	2521.6	2537.9	2553.2	2452.9	2453.9	2454.9	2455.4	2526.9	
G8.0	2448.1	2445.1	2462.6	2479.3	2386.4	2385.6	2381.5	2375.3	2448.1	
G9.0	2380.3	2378.2	2384.8	2392.5	2288.9	2287.8	2297.7	2287.6	2380.3	
G10.0	2297.1	2300.1	2311.6	2315.9	2203.3	2200.5	2213.7	2195.9	2297.1	
G11.0	2216.0	2206.0	2216.4	2228.1	2116.8	2115.1	2128.4	2106.7	2216.0	
G12.0	2128.8	2122.7	2132.7	2141.3	2020.2	2017.6	2031.8	2022.8	2128.8	
G13.0	2034.9	2032.1	2046.7	2048.6	1931.8	1921.1	1947.6	1929.5	2034.9	
G14.0	1936.9	1941.2	1947.8	1950.4	1835.9	1832.2	1858.6	1844.2	1936.9	
G15.0	1847.3	1847.7	1858.0	1862.0	1751.3	1751.5	1762.8	1759.6	1847.3	
G16.0	1767.1	1760.5	1763.8	1764.6	1662.2	1663.4	1676.1	1668.0	1767.1	
G17.0	1681.6	1677.8	1673.6	1674.9	1572.3	1577.8	1586.4	1580.3	1681.6	
G18.0	1601.0	1589.0	1588.6	1590.6	1489.0	1491.8	1502.7	1496.0	1601.0	
G19.0	1516.7	1504.5	1502.9	1509.7	1406.7	1397.8	1421.6	1415.0	1516.7	
G20.0	1423.7	1415.6	1426.5	1432.6	1330.5	1321.7	1347.3	1340.6	1423.7	
G21.0	1346.8	1340.0	1340.6	1344.9	1254.5	1255.5	1279.8	1264.3	1346.8	
G22.0	1277.7	1272.4	1272.6	1275.4	1189.9	1189.9	1203.5	1196.9	1277.7	
G23.0	1204.3	1203.1	1204.4	1212.1	1125.3	1125.6	1135.7	1129.5	1204.3	
G24.0	1135.4	1142.0	1143.6	1142.8	1066.3	1064.7	1070.3	1060.6	1135.4	
G25.0	1068.6	1080.4	1081.3	1082.9	998.4	995.1	1004.1	986.3	1068.6	
G26.0	993.9	1012.0	1020.7	1022.1	939.5	931.5	938.6	921.3	993.9	
G27.0	929.2	949.9	954.5	961.6	880.9	870.8	874.9	858.9	929.2	
G28.0	865.0	889.3	893.3	893.7	818.8	811.4	810.1	800.4	865.0	
G29.0	804.3	829.3	832.9	832.2	759.5	749.4	750.1	731.2	804.3	
G30.0	740.5	774.0	777.1	775.9	679.8	670.5	670.2	651.0	740.5	
G31.0	671.2	698.8	702.3	711.3	590.2	578.9	582.5	562.5	671.2	
G32.0	592.1	617.1	621.5	623.3	486.5	476.0	480.8	471.1	592.1	
G33.0	497.8	520.1	524.9	526.2	392.0	393.5	387.9	370.9	497.8	
G34.0	407.9	428.2	421.1	433.4	303.3	299.8	302.1	285.8	407.9	
G35.0	312.6	339.4	329.5	344.0	225.2	221.9	224.2	209.3	312.6	
G36.0	233.4	249.0	248.7	255.1	162.9	156.9	160.6	146.7	233.4	

C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instrument

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	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	160.7	179.7	175.7	186.1	121.1	114.0	116.2	106.2	160.7	
G38.0	114.7	129.0	125.5	129.0	100.9	91.7	92.9	87.8	114.7	
G39.0	91.2	101.2	99.1	101.7	86.7	79.0	80.8	75.8	91.2	
G40.0	78.8	87.0	85.6	87.0	75.2	68.8	69.8	66.9	78.8	
G41.0	68.9	76.0	75.3	76.1	65.7	60.6	61.5	59.0	68.9	
G42.0	60.5	66.5	65.2	66.2	56.9	51.9	53.6	51.5	60.5	
G43.0	52.0	56.8	57.1	56.9	50.4	46.2	47.6	45.9	52.0	
G44.0	46.8	49.8	50.4	50.0	44.5	42.6	42.4	41.9	46.8	
G45.0	42.8	44.5	44.6	44.2	40.1	39.3	38.9	38.2	42.8	
G46.0	39.2	40.3	40.5	40.4	37.0	36.4	36.3	35.7	39.2	
G47.0	36.7	37.3	37.3	37.6	34.3	33.6	33.5	33.3	36.7	
G48.0	34.2	34.9	34.9	34.9	31.7	31.3	31.3	31.1	34.2	
G49.0	31.4	32.2	32.3	32.4	29.8	29.2	29.2	28.5	31.4	
G50.0	29.4	30.2	30.3	30.2	27.6	27.0	26.7	26.6	29.4	
G51.0	27.1	28.0	27.9	27.9	25.4	25.0	25.0	24.5	27.1	
G52.0	25.2	26.0	25.8	25.7	23.9	23.3	23.3	23.1	25.2	
G53.0	23.6	24.3	24.1	24.1	22.1	21.6	21.6	21.3	23.6	
G54.0	21.8	22.5	22.5	22.3	20.4	20.0	19.9	19.7	21.8	
G55.0	20.1	20.8	20.9	20.5	19.0	18.6	18.5	18.3	20.1	
G56.0	19.0	19.5	19.5	19.2	17.6	17.1	17.1	16.9	19.0	
G57.0	17.4	17.9	18.0	17.7	16.3	15.9	15.8	15.6	17.4	
G58.0	16.0	16.4	16.6	16.3	14.9	14.7	14.6	14.5	16.0	
G59.0	15.0	15.2	15.5	15.2	13.9	13.6	13.4	13.4	15.0	
G60.0	13.9	14.2	14.4	14.2	12.8	12.5	12.3	12.5	13.9	
G61.0	12.6	13.1	13.3	13.1	11.7	11.5	11.4	11.3	12.6	
G62.0	11.7	12.1	12.1	11.9	11.0	10.6	10.6	10.6	11.7	
G63.0	11.0	11.2	11.4	11.1	10.1	9.8	9.7	9.7	11.0	
G64.0	10.2	10.5	10.5	10.4	9.3	8.8	8.8	8.8	10.2	
G65.0	9.3	9.5	9.6	9.5	8.4	8.2	8.0	8.1	9.3	
G66.0	8.5	8.7	8.8	8.6	7.8	7.6	7.4	7.5	8.5	
G67.0	7.9	8.0	8.1	7.9	7.1	6.8	6.7	6.7	7.9	
G68.0	7.2	7.4	7.4	7.3	6.5	6.2	6.0	6.1	7.2	
G69.0	6.6	6.7	6.8	6.7	5.8	5.5	5.4	5.5	6.6	
G70.0	5.8	6.1	6.1	5.9	5.3	5.0	4.9	5.0	5.8	
G71.0	5.3	5.5	5.5	5.3	4.7	4.5	4.4	4.4	5.3	
G72.0	4.9	5.0	5.0	4.8	4.2	4.0	3.8	3.9	4.9	
G73.0	4.4	4.5	4.6	4.3	3.6	3.5	3.3	3.4	4.4	

C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instrument

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	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	3.9	4.0	4.0	3.8	3.2	3.0	2.9	2.9	3.9	
G75.0	3.3	3.5	3.5	3.3	2.8	2.6	2.4	2.6	3.3	
G76.0	3.0	3.0	3.1	3.0	2.3	2.2	2.1	2.1	3.0	
G77.0	2.5	2.6	2.7	2.6	2.0	1.8	1.7	1.7	2.5	
G78.0	2.1	2.2	2.2	2.2	1.6	1.4	1.3	1.2	2.1	
G79.0	1.7	1.7	1.8	1.7	1.2	1.0	0.9	0.9	1.7	
G80.0	1.3	1.3	1.4	1.3	0.9	0.7	0.6	0.6	1.3	
G81.0	1.0	0.9	1.1	0.9	0.6	0.4	0.3	0.3	1.0	
G82.0	0.6	0.6	0.8	0.6	0.3	0.2	0.1	0.1	0.6	
G83.0	0.3	0.3	0.4	0.3	0.1	0.0	0.0	0.0	0.3	
G84.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	
G85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G86.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G88.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G101.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G103.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G106.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G107.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	
G108.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	
G109.0	0.2	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.2	
G110.0	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.2	

C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instrument

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	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G111.0	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.3	
G112.0	0.4	0.3	0.4	0.3	0.2	0.1	0.1	0.2	0.4	
G113.0	0.5	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.5	
G114.0	0.5	0.5	0.6	0.4	0.3	0.2	0.3	0.3	0.5	
G115.0	0.7	0.6	0.6	0.6	0.4	0.3	0.3	0.4	0.7	
G116.0	0.8	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.8	
G117.0	0.9	0.8	0.9	0.8	0.5	0.5	0.6	0.6	0.9	
G118.0	1.0	1.0	1.1	0.9	0.6	0.6	0.6	0.7	1.0	
G119.0	1.2	1.2	1.2	1.1	0.8	0.7	0.7	0.8	1.2	
G120.0	1.4	1.3	1.3	1.3	0.9	0.8	0.8	0.9	1.4	
G121.0	1.5	1.5	1.5	1.4	1.0	1.0	0.9	1.0	1.5	
G122.0	1.8	1.7	1.7	1.6	1.2	1.1	1.1	1.1	1.8	
G123.0	2.0	1.9	1.9	1.8	1.3	1.2	1.2	1.3	2.0	
G124.0	2.2	2.2	2.1	2.1	1.4	1.4	1.4	1.4	2.2	
G125.0	2.4	2.3	2.3	2.2	1.6	1.5	1.5	1.6	2.4	
G126.0	2.7	2.6	2.6	2.5	1.8	1.7	1.7	1.8	2.7	
G127.0	2.9	2.8	2.8	2.7	1.9	1.9	1.9	1.9	2.9	
G128.0	3.1	3.0	3.0	2.9	2.1	2.0	2.1	2.1	3.1	
G129.0	3.4	3.3	3.3	3.2	2.3	2.2	2.2	2.3	3.4	
G130.0	3.6	3.5	3.5	3.5	2.5	2.4	2.4	2.5	3.6	
G131.0	3.9	3.8	3.8	3.8	2.7	2.7	2.6	2.7	3.9	
G132.0	4.1	4.1	4.1	4.1	2.9	2.8	2.8	2.9	4.1	
G133.0	4.4	4.4	4.4	4.3	3.1	3.0	3.0	3.2	4.4	
G134.0	4.7	4.7	4.7	4.6	3.3	3.3	3.3	3.3	4.7	
G135.0	5.0	5.0	4.9	4.9	3.6	3.5	3.5	3.6	5.0	
G136.0	5.3	5.3	5.2	5.2	3.8	3.7	3.7	3.9	5.3	
G137.0	5.6	5.5	5.5	5.4	4.0	4.0	4.0	4.1	5.6	
G138.0	5.9	5.9	5.9	5.7	4.3	4.3	4.2	4.3	5.9	
G139.0	6.2	6.1	6.2	6.1	4.5	4.5	4.5	4.6	6.2	
G140.0	6.5	6.5	6.4	6.4	4.7	4.7	4.7	4.9	6.5	
G141.0	6.8	6.8	6.8	6.7	5.0	5.0	4.9	5.1	6.8	
G142.0	7.1	7.1	7.1	7.0	5.3	5.2	5.2	5.3	7.1	
G143.0	7.3	7.4	7.3	7.3	5.5	5.4	5.4	5.6	7.3	
G144.0	7.7	7.7	7.7	7.6	5.7	5.7	5.7	5.8	7.7	
G145.0	7.9	8.0	8.0	7.9	6.0	5.9	5.9	6.0	7.9	
G146.0	8.2	8.2	8.3	8.2	6.2	6.1	6.2	6.2	8.2	
G147.0	8.5	8.5	8.5	8.4	6.4	6.3	6.4	6.5	8.5	

C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instrument

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	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	8.8	8.8	8.8	8.7	6.7	6.6	6.6	6.7	8.8	
G149.0	9.0	9.1	9.0	8.9	6.9	6.7	6.8	6.9	9.0	
G150.0	9.3	9.3	9.3	9.2	7.1	7.0	7.0	7.1	9.3	
G151.0	9.5	9.5	9.5	9.4	7.3	7.1	7.2	7.3	9.5	
G152.0	9.7	9.7	9.7	9.6	7.5	7.4	7.3	7.5	9.7	
G153.0	9.9	9.9	9.9	9.8	7.7	7.5	7.5	7.6	9.9	
G154.0	10.0	10.1	10.1	10.1	7.8	7.7	7.8	7.8	10.0	
G155.0	10.2	10.3	10.3	10.2	8.0	7.9	7.9	7.9	10.2	
G156.0	10.4	10.4	10.4	10.3	8.1	8.0	8.0	8.1	10.4	
G157.0	10.5	10.6	10.5	10.5	8.2	8.2	8.1	8.2	10.5	
G158.0	10.6	10.6	10.6	10.6	8.3	8.3	8.2	8.2	10.6	
G159.0	10.7	10.7	10.8	10.7	8.4	8.4	8.4	8.4	10.7	
G160.0	10.7	10.7	10.9	10.8	8.5	8.5	8.5	8.5	10.7	
G161.0	10.8	10.8	10.9	10.8	8.6	8.6	8.5	8.6	10.8	
G162.0	10.8	10.8	10.9	10.9	8.7	8.7	8.6	8.7	10.8	
G163.0	10.9	10.9	10.9	10.9	8.8	8.8	8.8	8.8	10.9	
G164.0	10.8	10.8	10.9	10.9	8.9	8.8	8.8	8.8	10.8	
G165.0	10.8	10.8	10.9	10.9	9.0	9.0	8.9	8.9	10.8	
G166.0	10.8	10.8	10.9	10.9	9.2	9.1	9.0	9.1	10.8	
G167.0	10.7	10.8	10.9	10.9	9.2	9.2	9.1	9.2	10.7	
G168.0	10.7	10.7	10.8	10.8	9.3	9.2	9.2	9.3	10.7	
G169.0	10.7	10.7	10.8	10.8	9.4	9.3	9.3	9.4	10.7	
G170.0	10.6	10.7	10.7	10.7	9.5	9.4	9.4	9.5	10.6	
G171.0	10.6	10.6	10.6	10.7	9.6	9.6	9.5	9.6	10.6	
G172.0	10.6	10.6	10.6	10.6	9.8	9.7	9.6	9.7	10.6	
G173.0	10.6	10.5	10.6	10.6	9.8	9.7	9.7	9.7	10.6	
G174.0	10.5	10.5	10.5	10.6	9.9	9.8	9.8	9.8	10.5	
G175.0	10.5	10.5	10.5	10.5	10.0	9.9	9.9	9.9	10.5	
G176.0	10.4	10.4	10.4	10.5	10.0	10.0	9.9	10.0	10.4	
G177.0	10.3	10.3	10.4	10.4	10.1	10.0	10.0	10.1	10.3	
G178.0	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.2	10.3	
G179.0	10.3	10.2	10.3	10.3	10.3	10.2	10.1	10.1	10.3	
G180.0	10.1	10.2	10.2	10.3	10.3	10.2	10.2	10.3	10.1	

C Plane (°):0.0-360.0: 45.0

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Inspector: