

Report No.: TH-1539A

Test Time: 2020/7/28 15:55

Luminaire Property

Luminaire Manufacturer: HAVIT COMMERCIAL

Luminaire Description: HCP-88X1804-3K

Luminous Width (mm): -75

Current: 0.096 A

Power Factor: 0.873

Luminous Length (mm): -75

Voltage: 220.0 V

Power: 18.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1418.7 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H52.8

Vertical Diffuse Angle(50%): V52.8

Luminaire Efficacy Rating (LER): 76.73

Max. Intensity: 1948.94 cd

S/MH(C0/C180): 0.80

Total Rated Lamp Lumens: 1418.7 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1936.97 cd

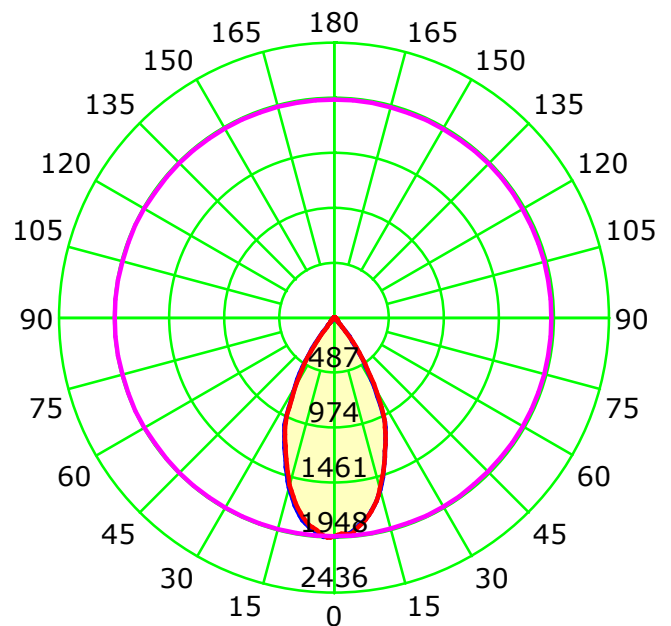
Pos of Max. Intensity: H270 V1

S/MH(C90/C270): 0.79

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 52.7°

— C0-C180 — C90-C270 — G1

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

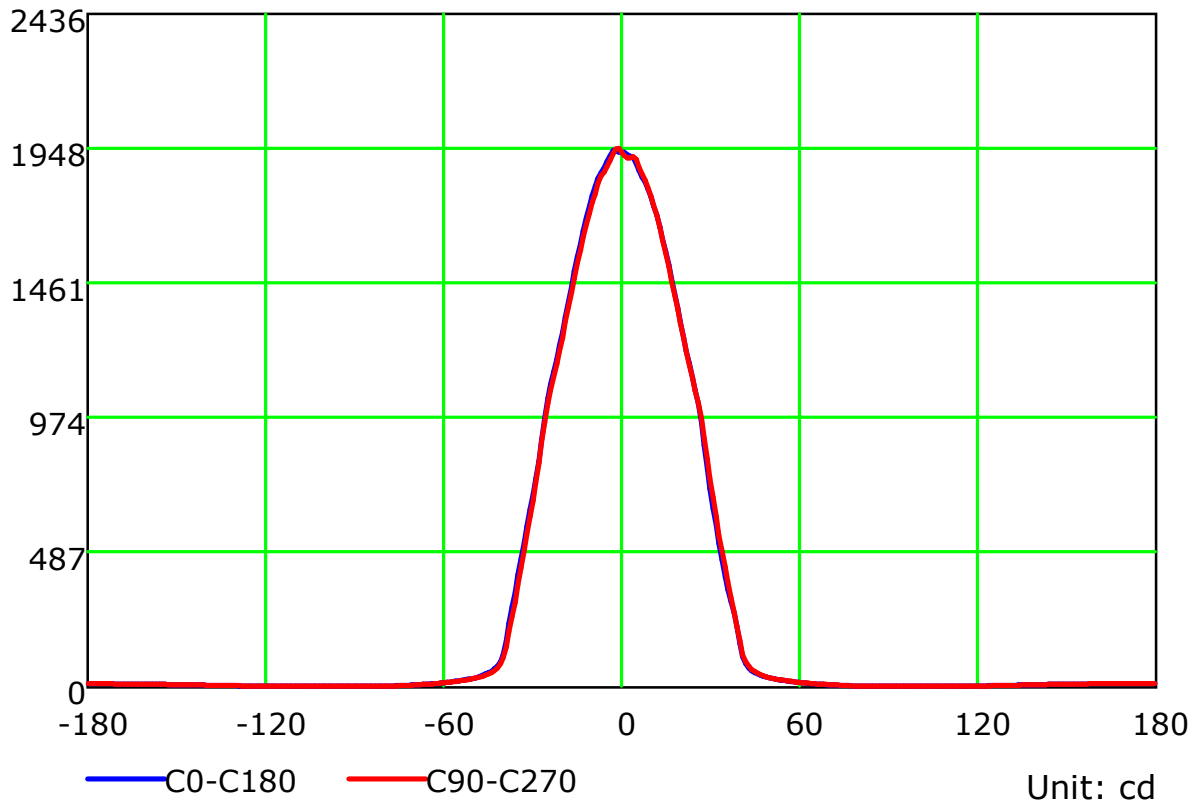
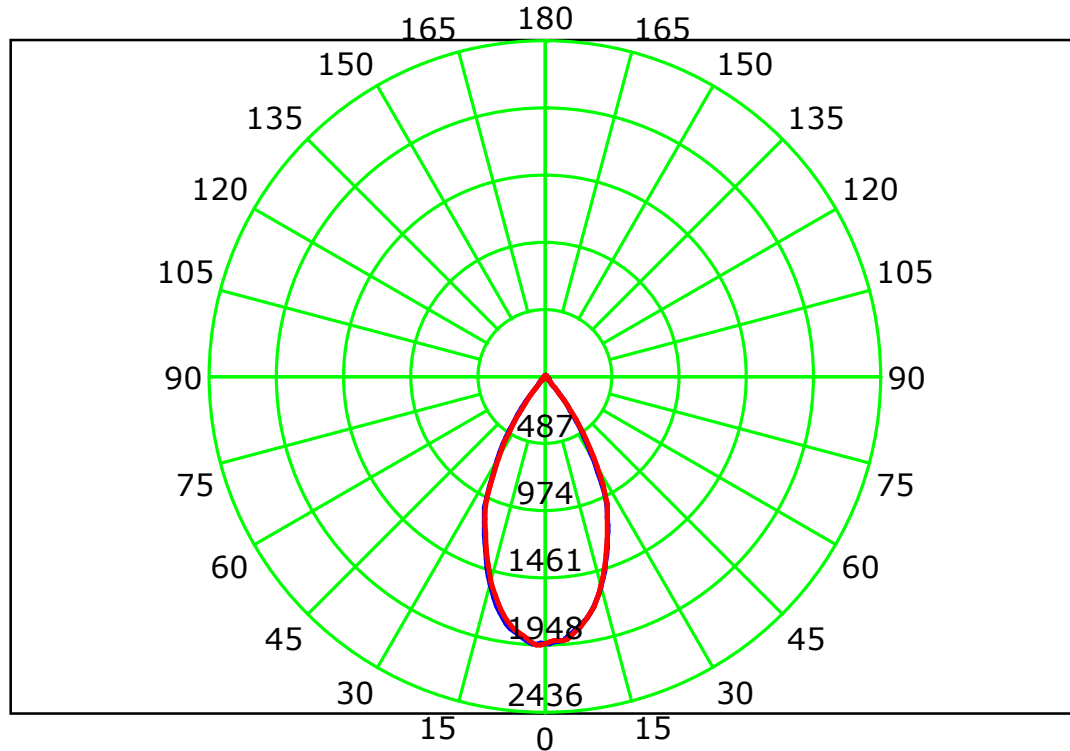
Test Device: GPM-1800B

Distance: 8.598 m

Humidity: 65

Inspector:

Luminous Intensity Distribution Curve



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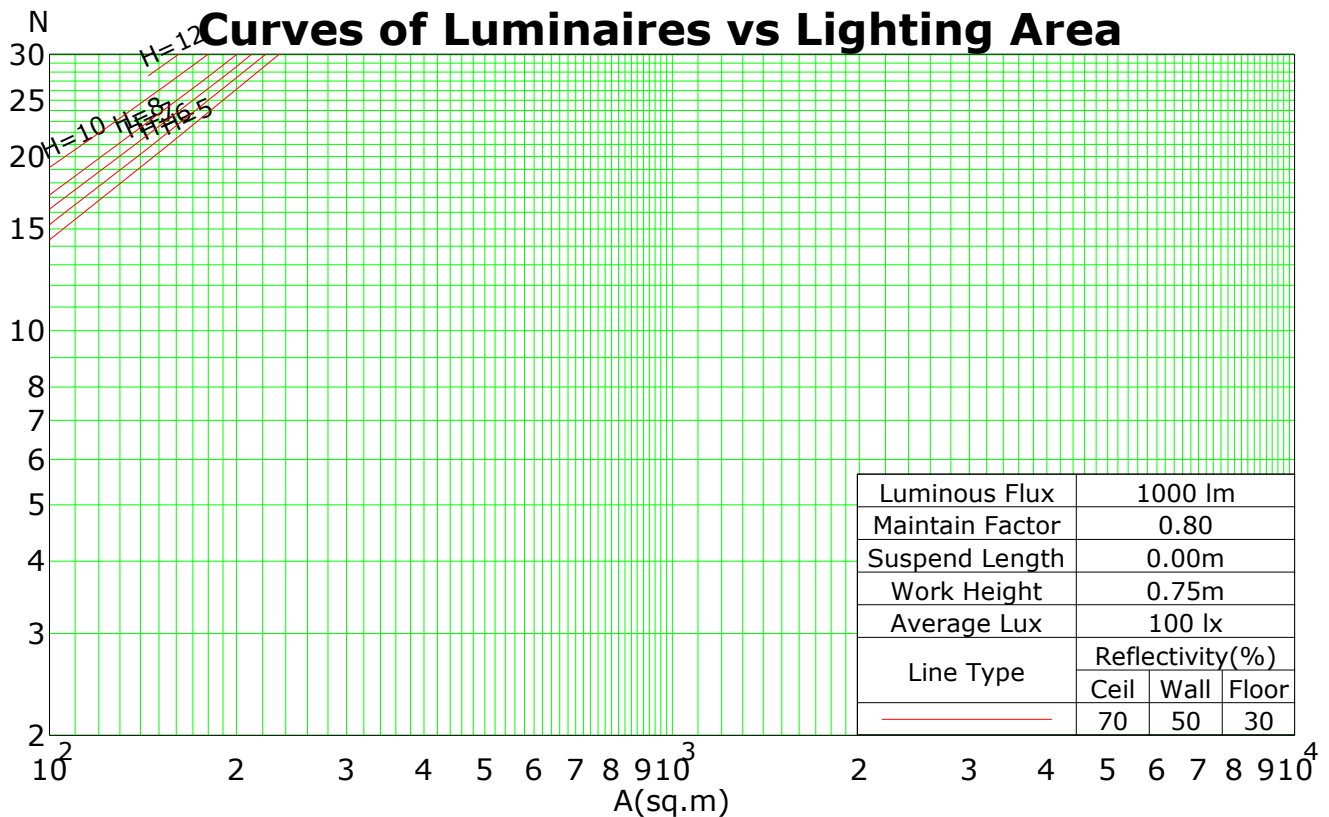
Coefficients Of Utilization - Zonal Cavity Method

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	113	111	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	93	95	93	90	92	90	88	87
3	103	97	92	88	101	95	91	87	92	89	86	90	87	84	87	85	83	81
4	98	91	85	81	96	89	84	81	87	83	80	85	81	78	83	80	77	76
5	93	85	80	75	91	84	79	75	82	78	74	80	77	73	79	75	73	71
6	89	80	74	70	87	79	74	70	78	73	70	76	72	69	75	71	68	67
7	85	76	70	66	83	75	70	66	74	69	65	72	68	65	71	67	64	63
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	58	56
10	74	65	59	55	73	64	59	55	63	58	55	62	58	55	62	57	55	53

Spacing Criteria (0-180): 0.80

Spacing Criteria (90-270): 0.79

Spacing Criteria (Diagonal): 0.80



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

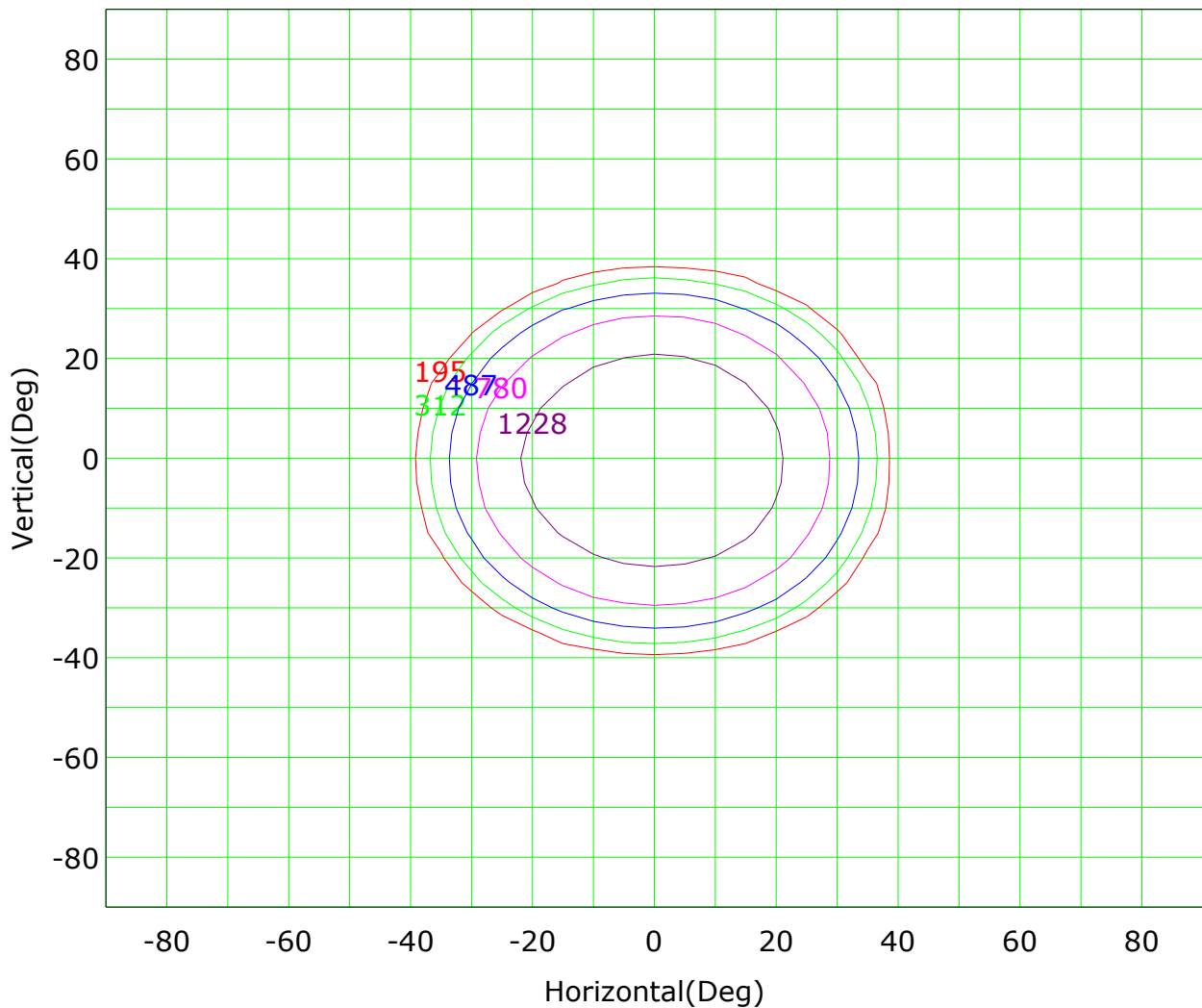
Test Device: GPM-1800B

Distance: 8.598 m

Humidity: 65

Inspector:

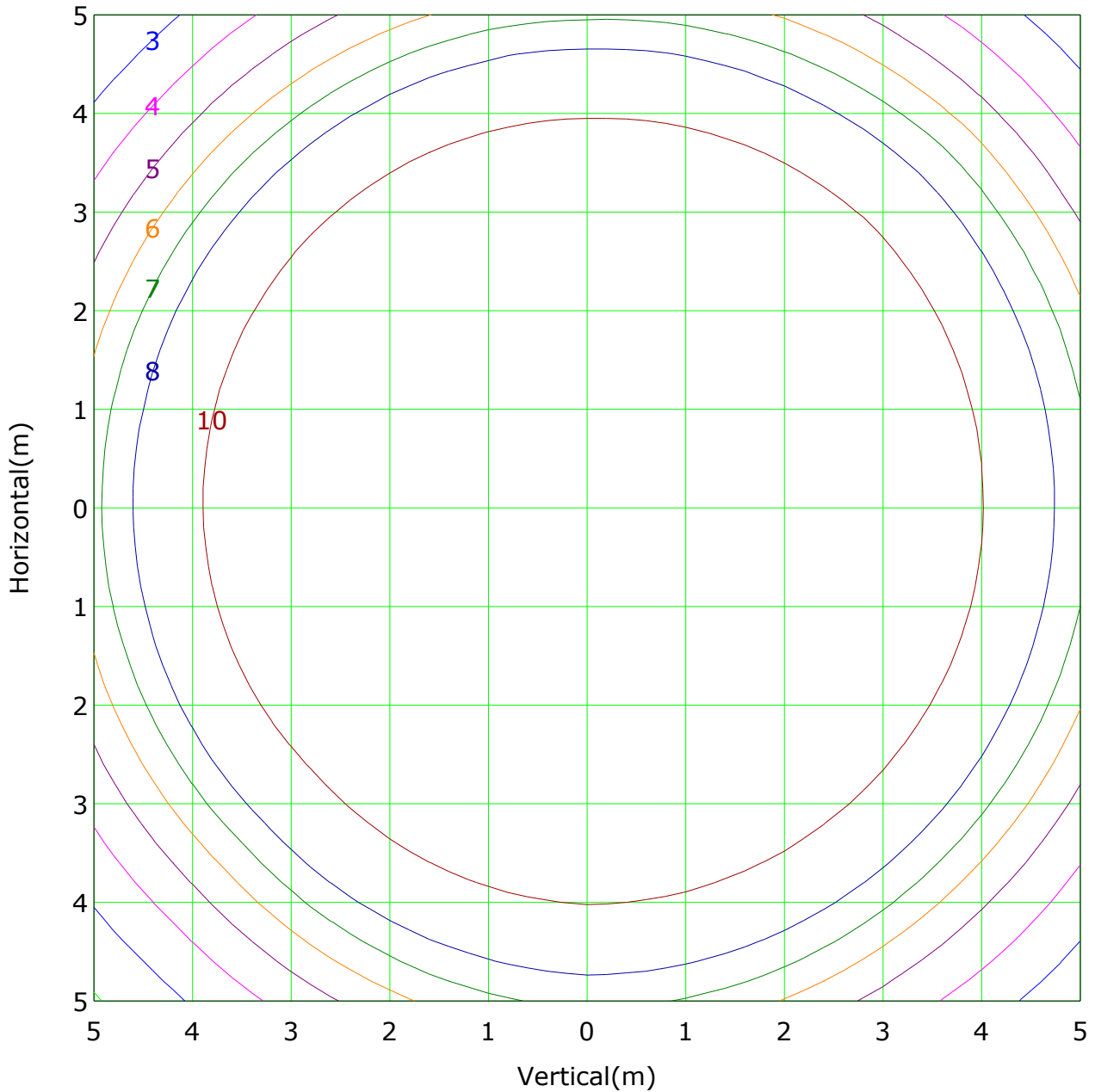
Isocandela (rectangle)



Imax (100%): 1949 cd

(10%): 195 cd	(16%): 312 cd
(25%): 487 cd	(40%): 780 cd
(63%): 1228 cd	(100%): 1949 cd

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 19.5 lx	
(5%):	1.0 lx	(10%):	1.9 lx
(15%):	2.9 lx	(20%):	3.9 lx
(25%):	4.9 lx	(30%):	5.8 lx
(35%):	6.8 lx	(40%):	7.8 lx
(50%):	9.7 lx	(100%):	19.5 lx

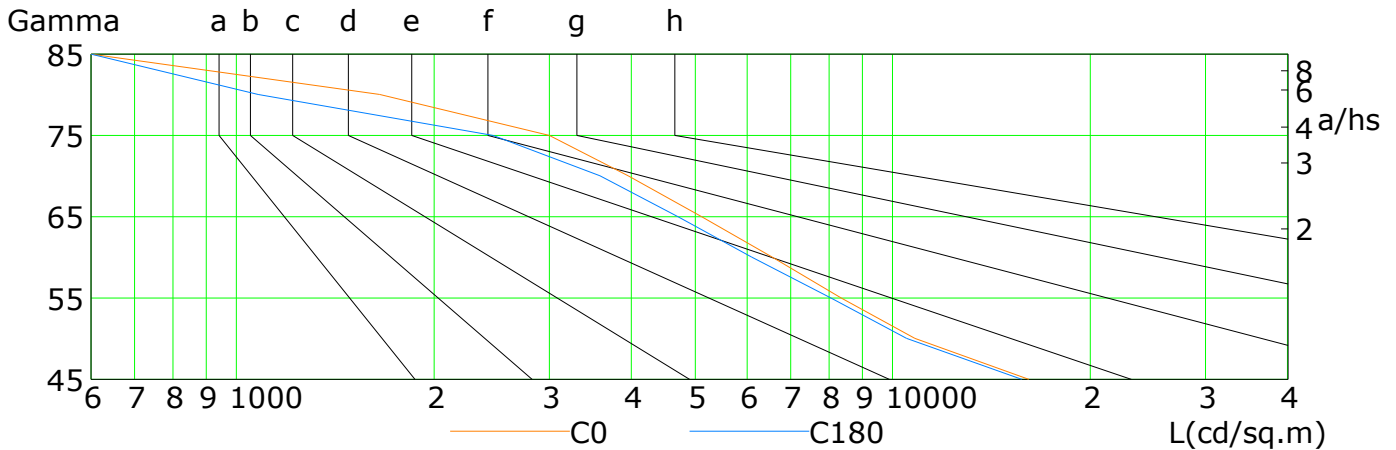
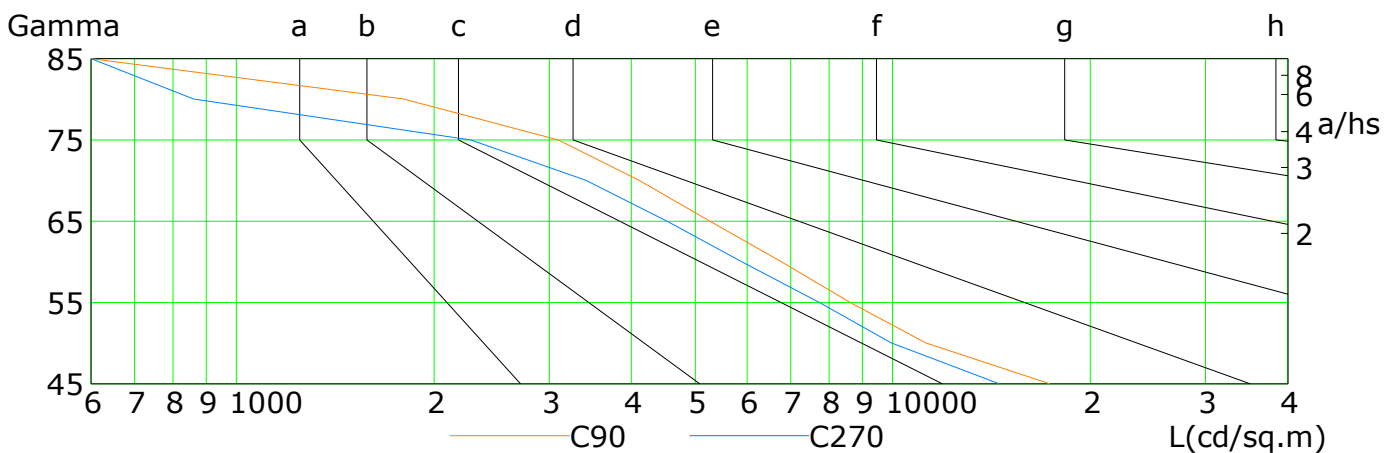
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

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

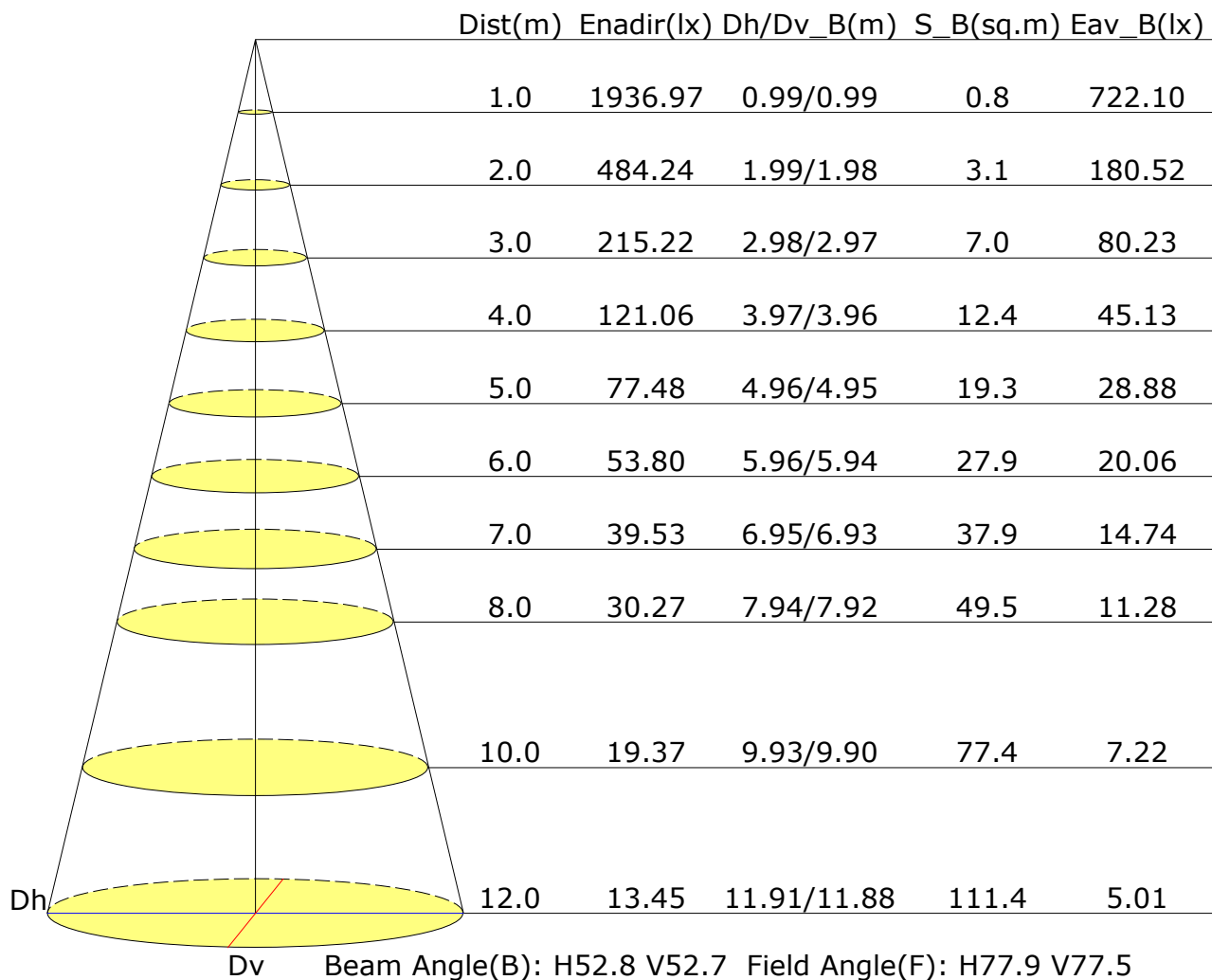


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	16135	10800	8352	6556	5119	3952	2996	1653	0
C90	17377	11243	8626	6763	5275	4103	3096	1799	0
C180	15745	10491	8048	6104	4707	3582	2463	1081	0
C270	14541	9958	7730	5884	4536	3408	2274	860	0

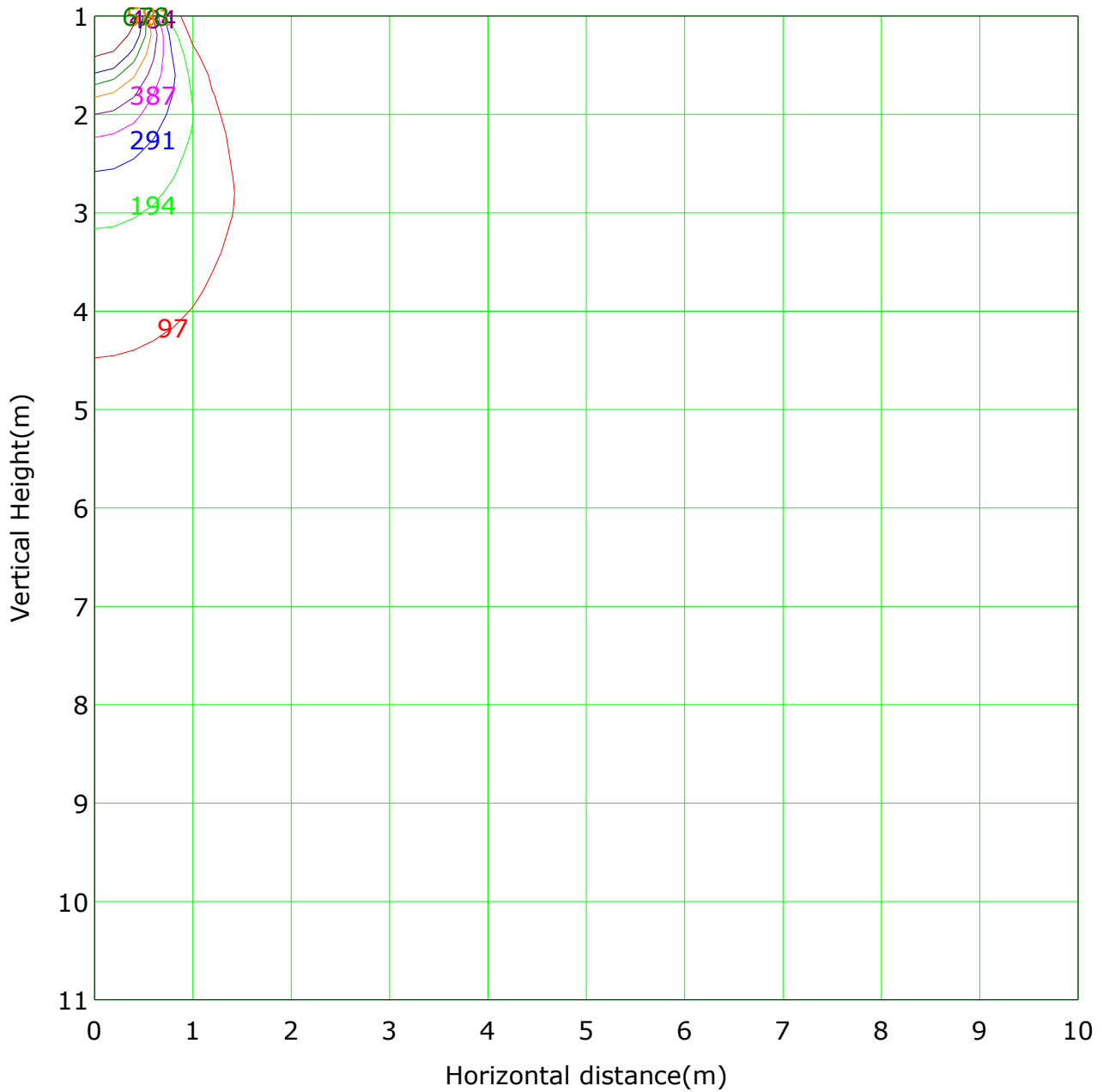
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

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

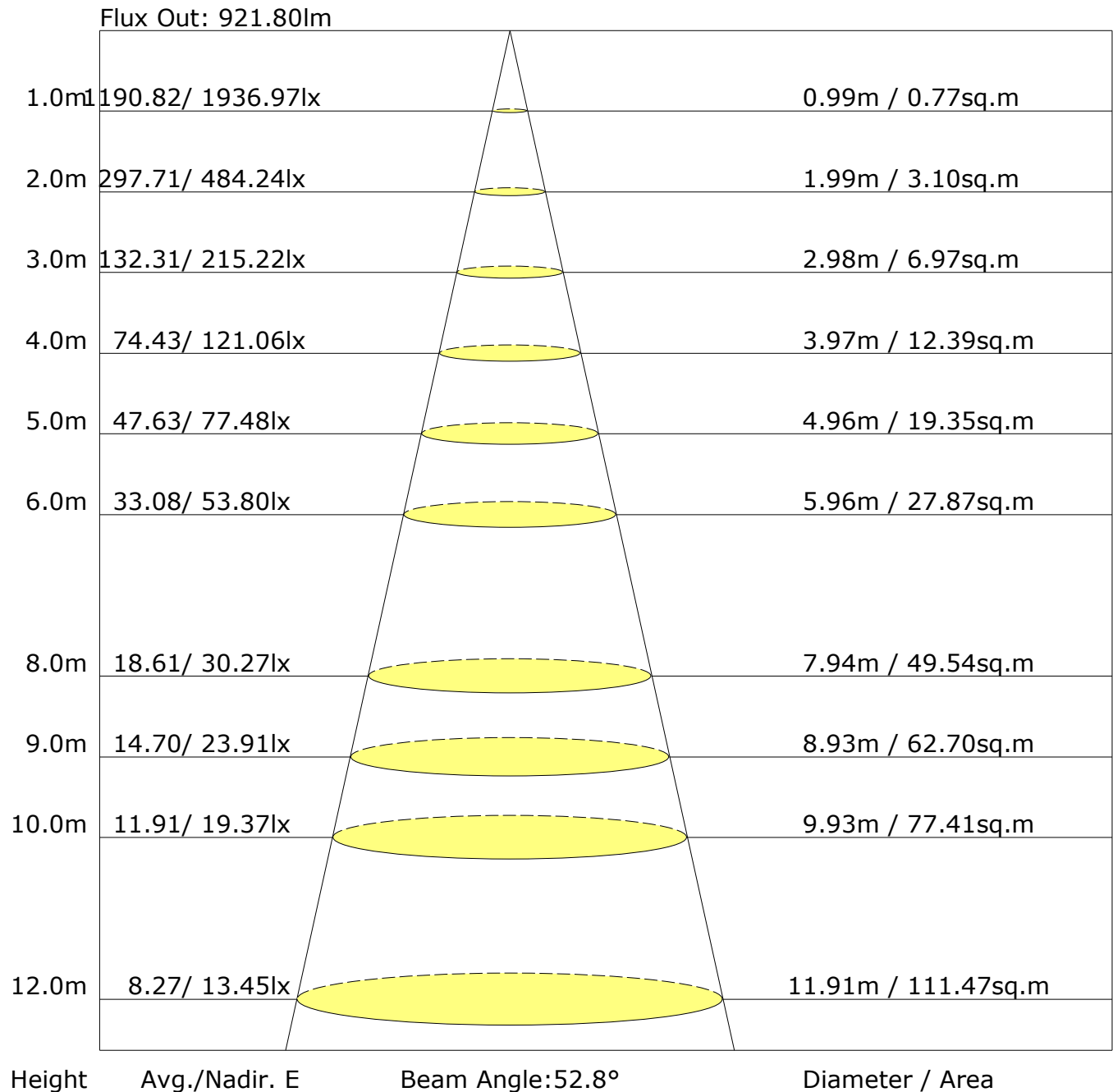


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 1937.0 lx
(5%): 96.8 lx	(10%): 193.7 lx	
(15%): 290.5 lx	(20%): 387.4 lx	
(25%): 484.2 lx	(30%): 581.1 lx	
(35%): 677.9 lx	(40%): 774.8 lx	
(50%): 968.5 lx	(100%):1937.0 lx	

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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	19.0	19.8	19.2	20.0	20.2	18.9	19.8	19.2	20.0	20.2
3H	18.9	19.6	19.2	19.9	20.2	18.9	19.6	19.2	19.9	20.1
4H	18.8	19.5	19.2	19.8	20.1	18.8	19.5	19.1	19.8	20.1
6H	18.8	19.4	19.1	19.7	20.1	18.7	19.4	19.1	19.7	20.0
8H	18.7	19.4	19.1	19.7	20.0	18.7	19.3	19.1	19.6	20.0
12H	18.7	19.3	19.1	19.6	20.0	18.7	19.3	19.0	19.6	19.9
X=4H Y=2H	18.8	19.5	19.1	19.8	20.1	18.8	19.5	19.1	19.7	20.0
3H	18.8	19.3	19.1	19.7	20.0	18.7	19.3	19.1	19.6	20.0
4H	18.7	19.2	19.1	19.6	20.0	18.7	19.2	19.1	19.6	19.9
6H	18.7	19.1	19.1	19.5	19.9	18.6	19.1	19.0	19.5	19.9
8H	18.6	19.0	19.1	19.4	19.9	18.6	19.0	19.0	19.4	19.8
12H	18.6	18.9	19.0	19.4	19.8	18.5	18.9	19.0	19.3	19.8
X=8H Y=4H	18.6	19.0	19.0	19.4	19.9	18.6	19.0	19.0	19.4	19.8
6H	18.5	18.9	19.0	19.3	19.8	18.5	18.8	19.0	19.3	19.8
8H	18.5	18.8	19.0	19.3	19.8	18.5	18.8	19.0	19.2	19.7
12H	18.5	18.7	19.0	19.2	19.7	18.4	18.7	18.9	19.2	19.7
X=12H Y=4H	18.6	18.9	19.0	19.4	19.8	18.5	18.9	19.0	19.3	19.8
6H	18.5	18.8	19.0	19.3	19.8	18.5	18.8	19.0	19.2	19.7
8H	18.5	18.7	19.0	19.2	19.7	18.4	18.7	18.9	19.2	19.7
Variations with the observer position at spacings:										
S=1.0H	+5.1/-6.6					+5.3/-6.3				
S=1.5H	+7.9/-7.7					+8.1/-7.5				
S=2.0H	+9.8/-8.7					+10.1/-8.7				

Calculate in accordance with CIE Pub.117. The table is revised with 1419lm ($8\log(F/F_0) = 1.2$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1936.5	1.9	1.9	0.13	0.13
1.0-2.0	1933.5	5.6	7.4	0.39	0.52
2.0-3.0	1928.0	9.2	16.6	0.65	1.17
3.0-4.0	1919.0	12.8	29.5	0.91	2.08
4.0-5.0	1904.8	16.4	45.9	1.16	3.23
5.0-6.0	1885.8	19.8	65.7	1.40	4.63
6.0-7.0	1864.6	23.1	88.8	1.63	6.26
7.0-8.0	1842.4	26.4	115.2	1.86	8.12
8.0-9.0	1817.1	29.5	144.7	2.08	10.20
9.0-10.0	1787.4	32.3	177.0	2.28	12.48
10.0-11.0	1754.0	35.1	212.1	2.47	14.95
11.0-12.0	1717.3	37.5	249.6	2.65	17.59
12.0-13.0	1675.7	39.8	289.4	2.80	20.40
13.0-14.0	1631.0	41.8	331.1	2.94	23.34
14.0-15.0	1585.2	43.5	374.7	3.07	26.41
15.0-16.0	1535.6	45.0	419.7	3.17	29.58
16.0-17.0	1483.8	46.2	465.9	3.26	32.84
17.0-18.0	1431.7	47.2	513.1	3.33	36.17
18.0-19.0	1377.6	47.9	561.0	3.38	39.55
19.0-20.0	1323.0	48.4	609.4	3.41	42.96
20.0-21.0	1270.2	48.8	658.2	3.44	46.40
21.0-22.0	1220.0	49.0	707.3	3.46	49.85
22.0-23.0	1171.8	49.2	756.4	3.47	53.32
23.0-24.0	1124.2	49.2	805.6	3.46	56.79
24.0-25.0	1076.3	48.9	854.5	3.45	60.24
25.0-26.0	1023.0	48.3	902.8	3.40	63.64
26.0-27.0	959.0	46.9	949.8	3.31	66.95
27.0-28.0	886.6	44.9	994.6	3.16	70.11
28.0-29.0	811.8	42.5	1037.1	2.99	73.11
29.0-30.0	740.4	40.0	1077.1	2.82	75.92
30.0-31.0	675.0	37.6	1114.7	2.65	78.57
31.0-32.0	612.8	35.1	1149.8	2.47	81.05
32.0-33.0	550.3	32.4	1182.2	2.29	83.33
33.0-34.0	488.3	29.6	1211.8	2.08	85.42
34.0-35.0	428.6	26.6	1238.4	1.88	87.29
35.0-36.0	372.0	23.7	1262.1	1.67	88.96

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	318.4	20.8	1282.8	1.46	90.43
37.0-38.0	266.6	17.8	1300.6	1.25	91.68
38.0-39.0	212.7	14.5	1315.2	1.02	92.70
39.0-40.0	159.0	11.1	1326.2	0.78	93.49
40.0-41.0	115.8	8.2	1334.5	0.58	94.07
41.0-42.0	87.4	6.3	1340.8	0.45	94.51
42.0-43.0	70.3	5.2	1346.0	0.37	94.88
43.0-44.0	59.9	4.5	1350.6	0.32	95.20
44.0-45.0	52.6	4.0	1354.6	0.28	95.49
45.0-46.0	46.6	3.6	1358.3	0.26	95.74
46.0-47.0	41.6	3.3	1361.6	0.23	95.98
47.0-48.0	37.5	3.0	1364.6	0.21	96.19
48.0-49.0	34.1	2.8	1367.4	0.20	96.39
49.0-50.0	31.3	2.6	1370.0	0.18	96.57
50.0-51.0	29.0	2.5	1372.5	0.17	96.74
51.0-52.0	26.9	2.3	1374.8	0.16	96.91
52.0-53.0	25.0	2.2	1376.9	0.15	97.06
53.0-54.0	23.2	2.0	1379.0	0.14	97.20
54.0-55.0	21.5	1.9	1380.9	0.14	97.34
55.0-56.0	20.0	1.8	1382.7	0.13	97.47
56.0-57.0	18.5	1.7	1384.4	0.12	97.58
57.0-58.0	17.1	1.6	1386.0	0.11	97.70
58.0-59.0	15.8	1.5	1387.4	0.10	97.80
59.0-60.0	14.6	1.4	1388.8	0.10	97.90
60.0-61.0	13.4	1.3	1390.1	0.09	97.99
61.0-62.0	12.4	1.2	1391.3	0.08	98.07
62.0-63.0	11.4	1.1	1392.4	0.08	98.15
63.0-64.0	10.5	1.0	1393.4	0.07	98.22
64.0-65.0	9.6	1.0	1394.4	0.07	98.29
65.0-66.0	8.8	0.9	1395.3	0.06	98.35
66.0-67.0	8.1	0.8	1396.1	0.06	98.41
67.0-68.0	7.4	0.7	1396.8	0.05	98.46
68.0-69.0	6.7	0.7	1397.5	0.05	98.51
69.0-70.0	6.0	0.6	1398.1	0.04	98.55
70.0-71.0	5.4	0.6	1398.7	0.04	98.59
71.0-72.0	4.9	0.5	1399.2	0.04	98.63

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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	4.3	0.5	1399.6	0.03	98.66
73.0-74.0	3.8	0.4	1400.0	0.03	98.69
74.0-75.0	3.3	0.4	1400.4	0.02	98.71
75.0-76.0	2.9	0.3	1400.7	0.02	98.73
76.0-77.0	2.4	0.3	1401.0	0.02	98.75
77.0-78.0	2.0	0.2	1401.2	0.02	98.77
78.0-79.0	1.6	0.2	1401.3	0.01	98.78
79.0-80.0	1.2	0.1	1401.5	0.01	98.79
80.0-81.0	0.9	0.1	1401.6	0.01	98.80
81.0-82.0	0.6	0.1	1401.6	0.00	98.80
82.0-83.0	0.3	0.0	1401.7	0.00	98.80
83.0-84.0	0.1	0.0	1401.7	0.00	98.80
84.0-85.0	0.0	0.0	1401.7	0.00	98.80
85.0-86.0	0.0	0.0	1401.7	0.00	98.80
86.0-87.0	0.0	0.0	1401.7	0.00	98.80
87.0-88.0	0.0	0.0	1401.7	0.00	98.80
88.0-89.0	0.0	0.0	1401.7	0.00	98.80
89.0-90.0	0.0	0.0	1401.7	0.00	98.80
90.0-91.0	0.0	0.0	1401.7	0.00	98.80
91.0-92.0	0.0	0.0	1401.7	0.00	98.80
92.0-93.0	0.0	0.0	1401.7	0.00	98.80
93.0-94.0	0.0	0.0	1401.7	0.00	98.80
94.0-95.0	0.0	0.0	1401.7	0.00	98.80
95.0-96.0	0.0	0.0	1401.7	0.00	98.80
96.0-97.0	0.0	0.0	1401.7	0.00	98.80
97.0-98.0	0.0	0.0	1401.7	0.00	98.80
98.0-99.0	0.0	0.0	1401.7	0.00	98.80
99.0-100.0	0.0	0.0	1401.7	0.00	98.80
100.0-101.0	0.0	0.0	1401.7	0.00	98.80
101.0-102.0	0.0	0.0	1401.7	0.00	98.80
102.0-103.0	0.0	0.0	1401.7	0.00	98.80
103.0-104.0	0.0	0.0	1401.7	0.00	98.80
104.0-105.0	0.0	0.0	1401.7	0.00	98.80
105.0-106.0	0.0	0.0	1401.7	0.00	98.80
106.0-107.0	0.1	0.0	1401.7	0.00	98.80
107.0-108.0	0.1	0.0	1401.7	0.00	98.80

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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	1401.7	0.00	98.80
109.0-110.0	0.2	0.0	1401.7	0.00	98.81
110.0-111.0	0.3	0.0	1401.7	0.00	98.81
111.0-112.0	0.3	0.0	1401.8	0.00	98.81
112.0-113.0	0.4	0.0	1401.8	0.00	98.81
113.0-114.0	0.5	0.0	1401.9	0.00	98.82
114.0-115.0	0.6	0.1	1401.9	0.00	98.82
115.0-116.0	0.7	0.1	1402.0	0.00	98.83
116.0-117.0	0.8	0.1	1402.1	0.01	98.83
117.0-118.0	0.9	0.1	1402.2	0.01	98.84
118.0-119.0	1.1	0.1	1402.3	0.01	98.85
119.0-120.0	1.2	0.1	1402.4	0.01	98.85
120.0-121.0	1.4	0.1	1402.5	0.01	98.86
121.0-122.0	1.5	0.1	1402.7	0.01	98.87
122.0-123.0	1.7	0.2	1402.8	0.01	98.88
123.0-124.0	1.8	0.2	1403.0	0.01	98.90
124.0-125.0	2.0	0.2	1403.2	0.01	98.91
125.0-126.0	2.2	0.2	1403.4	0.01	98.92
126.0-127.0	2.4	0.2	1403.6	0.01	98.94
127.0-128.0	2.6	0.2	1403.8	0.02	98.95
128.0-129.0	2.8	0.2	1404.0	0.02	98.97
129.0-130.0	3.0	0.3	1404.3	0.02	98.99
130.0-131.0	3.2	0.3	1404.6	0.02	99.01
131.0-132.0	3.4	0.3	1404.8	0.02	99.03
132.0-133.0	3.6	0.3	1405.1	0.02	99.05
133.0-134.0	3.8	0.3	1405.4	0.02	99.07
134.0-135.0	4.1	0.3	1405.8	0.02	99.09
135.0-136.0	4.3	0.3	1406.1	0.02	99.11
136.0-137.0	4.5	0.3	1406.4	0.02	99.14
137.0-138.0	4.7	0.4	1406.8	0.02	99.16
138.0-139.0	5.0	0.4	1407.1	0.03	99.19
139.0-140.0	5.2	0.4	1407.5	0.03	99.21
140.0-141.0	5.4	0.4	1407.9	0.03	99.24
141.0-142.0	5.6	0.4	1408.3	0.03	99.27
142.0-143.0	5.8	0.4	1408.7	0.03	99.29
143.0-144.0	6.1	0.4	1409.0	0.03	99.32

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	6.3	0.4	1409.4	0.03	99.35
145.0-146.0	6.4	0.4	1409.8	0.03	99.38
146.0-147.0	6.7	0.4	1410.2	0.03	99.41
147.0-148.0	6.9	0.4	1410.7	0.03	99.44
148.0-149.0	7.0	0.4	1411.1	0.03	99.46
149.0-150.0	7.2	0.4	1411.5	0.03	99.49
150.0-151.0	7.4	0.4	1411.9	0.03	99.52
151.0-152.0	7.6	0.4	1412.3	0.03	99.55
152.0-153.0	7.7	0.4	1412.6	0.03	99.58
153.0-154.0	7.9	0.4	1413.0	0.03	99.60
154.0-155.0	8.0	0.4	1413.4	0.03	99.63
155.0-156.0	8.2	0.4	1413.8	0.03	99.66
156.0-157.0	8.3	0.4	1414.1	0.03	99.68
157.0-158.0	8.4	0.4	1414.5	0.02	99.71
158.0-159.0	8.5	0.3	1414.8	0.02	99.73
159.0-160.0	8.6	0.3	1415.2	0.02	99.75
160.0-161.0	8.7	0.3	1415.5	0.02	99.78
161.0-162.0	8.8	0.3	1415.8	0.02	99.80
162.0-163.0	8.9	0.3	1416.1	0.02	99.82
163.0-164.0	9.0	0.3	1416.4	0.02	99.84
164.0-165.0	9.1	0.3	1416.6	0.02	99.86
165.0-166.0	9.1	0.3	1416.9	0.02	99.87
166.0-167.0	9.2	0.2	1417.1	0.02	99.89
167.0-168.0	9.3	0.2	1417.3	0.02	99.91
168.0-169.0	9.4	0.2	1417.5	0.01	99.92
169.0-170.0	9.5	0.2	1417.7	0.01	99.93
170.0-171.0	9.5	0.2	1417.9	0.01	99.95
171.0-172.0	9.6	0.2	1418.1	0.01	99.96
172.0-173.0	9.7	0.1	1418.2	0.01	99.97
173.0-174.0	9.7	0.1	1418.3	0.01	99.98
174.0-175.0	9.8	0.1	1418.4	0.01	99.98
175.0-176.0	9.8	0.1	1418.5	0.01	99.99
176.0-177.0	9.9	0.1	1418.6	0.00	99.99
177.0-178.0	9.9	0.0	1418.6	0.00	100.00
178.0-179.0	9.9	0.0	1418.7	0.00	100.00
179.0-180.0	10.0	0.0	1418.7	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	1937.0	1937.0	1937.0	1937.0	1937.0	1937.0	1937.0	1937.0	1937.0	
G1.0	1936.1	1928.7	1925.6	1931.4	1935.0	1941.3	1948.9	1940.9	1936.1	
G2.0	1926.3	1916.8	1915.9	1920.0	1941.5	1943.8	1948.0	1936.5	1926.3	
G3.0	1921.6	1917.5	1914.8	1918.1	1942.2	1936.4	1932.1	1915.9	1921.6	
G4.0	1917.1	1916.7	1920.8	1919.9	1921.2	1909.5	1906.8	1893.9	1917.1	
G5.0	1895.2	1898.0	1911.6	1922.6	1901.3	1886.2	1882.9	1873.4	1895.2	
G6.0	1870.1	1874.5	1882.4	1907.4	1880.3	1868.2	1865.4	1854.0	1870.1	
G7.0	1846.3	1851.0	1857.0	1881.7	1862.1	1847.9	1849.4	1835.9	1846.3	
G8.0	1826.2	1831.2	1833.9	1858.1	1841.8	1825.4	1821.8	1809.2	1826.2	
G9.0	1803.6	1807.6	1807.4	1833.0	1813.7	1796.4	1786.0	1778.9	1803.6	
G10.0	1772.8	1778.4	1775.6	1802.5	1777.8	1765.3	1753.8	1744.9	1772.8	
G11.0	1741.9	1742.4	1743.1	1769.1	1740.8	1732.4	1715.5	1707.4	1741.9	
G12.0	1707.7	1707.3	1707.9	1732.3	1698.7	1691.8	1672.9	1664.6	1707.7	
G13.0	1663.9	1665.8	1663.5	1691.7	1650.8	1649.2	1626.6	1616.3	1663.9	
G14.0	1621.2	1617.7	1618.1	1645.9	1604.5	1605.1	1581.9	1574.0	1621.2	
G15.0	1576.8	1571.4	1569.8	1600.2	1557.2	1558.5	1535.4	1526.1	1576.8	
G16.0	1528.2	1521.9	1520.2	1546.2	1505.1	1505.3	1477.7	1469.2	1528.2	
G17.0	1478.4	1473.8	1470.0	1496.5	1448.0	1456.7	1427.5	1415.6	1478.4	
G18.0	1422.6	1424.6	1418.3	1445.2	1393.7	1402.5	1373.9	1360.6	1422.6	
G19.0	1369.9	1364.4	1364.6	1387.0	1338.6	1346.6	1320.9	1307.8	1369.9	
G20.0	1318.6	1311.5	1313.2	1335.3	1284.9	1291.0	1264.0	1250.0	1318.6	
G21.0	1263.7	1261.5	1263.2	1280.9	1235.1	1233.6	1215.7	1201.6	1263.7	
G22.0	1215.6	1210.0	1213.9	1232.8	1186.7	1182.1	1167.3	1156.2	1215.6	
G23.0	1170.1	1163.0	1162.6	1180.3	1140.1	1134.6	1120.8	1112.2	1170.1	
G24.0	1117.8	1111.5	1116.3	1132.5	1094.9	1088.0	1072.8	1069.1	1117.8	
G25.0	1073.9	1066.9	1071.5	1088.1	1045.8	1035.0	1025.6	1011.1	1073.9	
G26.0	1023.9	1022.8	1027.3	1039.2	973.0	968.6	956.8	938.2	1023.9	
G27.0	955.8	950.5	971.0	985.1	892.6	890.3	885.6	863.6	955.8	
G28.0	874.1	870.6	901.6	909.5	817.6	814.8	807.6	794.9	874.1	
G29.0	790.7	794.7	824.8	827.7	753.7	745.5	739.2	721.8	790.7	
G30.0	716.1	724.3	752.4	749.7	696.6	678.8	673.7	656.4	716.1	
G31.0	644.6	667.6	686.0	686.5	640.6	615.8	614.3	596.2	644.6	
G32.0	584.3	615.0	616.3	620.1	578.8	548.9	552.2	537.2	584.3	
G33.0	518.2	550.8	547.2	559.0	521.7	486.8	493.0	475.1	518.2	
G34.0	457.4	483.6	490.0	494.5	462.5	428.1	429.9	414.8	457.4	
G35.0	397.0	424.9	431.9	438.5	403.9	375.2	367.6	356.8	397.0	
G36.0	351.4	370.2	379.1	380.8	342.2	328.2	305.5	297.8	351.4	

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	308.0	313.5	321.6	320.6	287.9	288.5	253.0	245.8	308.0	
G38.0	266.8	262.6	268.2	271.0	228.7	236.8	198.3	193.8	266.8	
G39.0	218.6	203.8	218.8	225.6	165.3	166.6	142.8	136.1	218.6	
G40.0	154.3	149.1	164.9	165.7	114.3	115.8	103.8	99.1	154.3	
G41.0	108.5	107.8	115.9	117.3	89.3	87.0	81.3	78.0	108.5	
G42.0	81.4	83.6	89.1	89.6	72.7	68.1	65.3	63.0	81.4	
G43.0	65.5	68.6	72.8	71.0	62.9	58.0	56.7	56.0	65.5	
G44.0	57.7	59.1	61.4	61.2	55.0	51.5	50.6	49.6	57.7	
G45.0	50.4	52.7	54.3	53.9	49.2	45.4	45.4	44.2	50.4	
G46.0	44.2	46.9	47.5	47.5	44.3	40.1	40.4	39.6	44.2	
G47.0	39.5	41.6	42.4	42.2	39.5	36.5	36.6	36.1	39.5	
G48.0	36.3	36.9	38.1	38.0	35.0	33.7	33.6	33.2	36.3	
G49.0	33.0	33.9	34.5	34.6	32.3	31.0	30.8	30.6	33.0	
G50.0	30.7	31.1	31.9	31.8	29.8	28.8	28.3	28.3	30.7	
G51.0	28.5	28.8	29.4	29.3	27.4	26.7	26.4	26.2	28.5	
G52.0	26.3	26.8	27.1	27.3	25.5	24.9	24.7	24.6	26.3	
G53.0	24.7	25.0	25.2	25.5	23.5	23.0	22.7	22.8	24.7	
G54.0	22.9	23.3	23.5	23.4	21.8	21.3	21.1	20.9	22.9	
G55.0	21.2	21.4	21.9	21.8	20.4	19.9	19.6	19.5	21.2	
G56.0	19.8	20.1	20.4	20.4	18.7	18.2	18.0	18.0	19.8	
G57.0	18.2	18.6	18.8	18.8	17.2	16.9	16.7	16.6	18.2	
G58.0	16.9	17.2	17.4	17.3	16.0	15.6	15.4	15.4	16.9	
G59.0	15.6	15.9	16.2	16.2	14.9	14.4	14.3	14.2	15.6	
G60.0	14.5	14.8	14.9	15.0	13.5	13.2	13.0	13.2	14.5	
G61.0	13.3	13.6	13.7	13.8	12.4	12.2	12.0	11.9	13.3	
G62.0	12.3	12.4	12.6	12.5	11.6	11.3	11.1	11.2	12.3	
G63.0	11.5	11.7	11.7	11.7	10.7	10.4	10.2	10.3	11.5	
G64.0	10.5	10.7	11.0	10.8	9.8	9.4	9.2	9.2	10.5	
G65.0	9.6	9.8	9.8	9.9	8.8	8.5	8.5	8.6	9.6	
G66.0	8.8	8.9	9.0	8.9	8.2	7.8	7.8	7.7	8.8	
G67.0	8.1	8.3	8.3	8.3	7.5	7.2	7.0	7.2	8.1	
G68.0	7.4	7.5	7.7	7.6	6.7	6.5	6.3	6.4	7.4	
G69.0	6.7	6.9	7.0	6.9	6.0	5.8	5.6	5.7	6.7	
G70.0	6.0	6.2	6.2	6.2	5.4	5.3	5.1	5.2	6.0	
G71.0	5.5	5.6	5.6	5.5	4.9	4.8	4.5	4.7	5.5	
G72.0	5.0	5.1	5.1	5.1	4.3	4.1	4.0	4.1	5.0	
G73.0	4.5	4.5	4.6	4.6	3.8	3.6	3.5	3.6	4.5	

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 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	4.1	4.0	3.3	3.1	3.0	3.1	3.9	
G75.0	3.4	3.5	3.5	3.4	2.8	2.7	2.6	2.6	3.4	
G76.0	3.0	3.1	3.1	3.0	2.4	2.3	2.2	2.2	3.0	
G77.0	2.5	2.7	2.7	2.6	2.0	1.8	1.7	1.7	2.5	
G78.0	2.0	2.2	2.3	2.2	1.5	1.4	1.3	1.3	2.0	
G79.0	1.7	1.7	1.8	1.7	1.2	1.0	1.0	1.0	1.7	
G80.0	1.3	1.3	1.4	1.3	0.8	0.7	0.7	0.7	1.3	
G81.0	0.9	1.0	1.0	0.9	0.5	0.4	0.4	0.4	0.9	
G82.0	0.5	0.7	0.7	0.7	0.2	0.2	0.2	0.1	0.5	
G83.0	0.3	0.3	0.4	0.3	0.0	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	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
G106.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	
G107.0	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.2	
G108.0	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.1	0.2	
G109.0	0.3	0.3	0.2	0.2	0.0	0.0	0.1	0.1	0.3	
G110.0	0.3	0.4	0.3	0.3	0.1	0.1	0.1	0.2	0.3	

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	0.4	0.4	0.4	0.3	0.1	0.2	0.2	0.2	0.4	
G112.0	0.5	0.5	0.4	0.4	0.2	0.2	0.3	0.3	0.5	
G113.0	0.6	0.7	0.6	0.6	0.3	0.3	0.3	0.4	0.6	
G114.0	0.7	0.8	0.7	0.6	0.3	0.3	0.4	0.4	0.7	
G115.0	0.8	0.9	0.8	0.8	0.4	0.4	0.5	0.6	0.8	
G116.0	0.9	1.0	0.9	0.9	0.5	0.5	0.6	0.7	0.9	
G117.0	1.1	1.2	1.0	1.0	0.7	0.7	0.7	0.8	1.1	
G118.0	1.3	1.3	1.2	1.2	0.7	0.7	0.8	0.9	1.3	
G119.0	1.4	1.4	1.3	1.3	0.8	0.9	0.9	1.0	1.4	
G120.0	1.6	1.6	1.5	1.5	0.9	1.0	1.0	1.1	1.6	
G121.0	1.7	1.8	1.7	1.7	1.0	1.1	1.2	1.3	1.7	
G122.0	1.9	2.0	1.9	1.8	1.2	1.2	1.3	1.4	1.9	
G123.0	2.2	2.2	2.1	2.0	1.3	1.4	1.4	1.5	2.2	
G124.0	2.4	2.3	2.3	2.2	1.5	1.5	1.5	1.7	2.4	
G125.0	2.5	2.5	2.5	2.4	1.6	1.6	1.7	1.8	2.5	
G126.0	2.8	2.8	2.7	2.7	1.8	1.8	1.9	2.0	2.8	
G127.0	3.0	3.0	2.9	2.9	1.9	1.9	2.0	2.2	3.0	
G128.0	3.2	3.3	3.2	3.1	2.1	2.1	2.2	2.3	3.2	
G129.0	3.4	3.4	3.4	3.3	2.3	2.3	2.4	2.6	3.4	
G130.0	3.6	3.6	3.6	3.6	2.5	2.5	2.5	2.7	3.6	
G131.0	3.9	3.9	3.8	3.8	2.7	2.7	2.7	2.9	3.9	
G132.0	4.1	4.1	4.1	4.0	2.9	2.8	2.9	3.0	4.1	
G133.0	4.4	4.4	4.3	4.2	3.0	3.0	3.1	3.3	4.4	
G134.0	4.6	4.6	4.5	4.5	3.2	3.2	3.3	3.5	4.6	
G135.0	4.9	4.9	4.8	4.7	3.4	3.4	3.5	3.6	4.9	
G136.0	5.1	5.2	5.0	5.0	3.6	3.6	3.7	3.9	5.1	
G137.0	5.4	5.4	5.3	5.2	3.8	3.8	3.9	4.1	5.4	
G138.0	5.6	5.6	5.6	5.4	4.0	4.0	4.1	4.3	5.6	
G139.0	5.9	5.9	5.8	5.8	4.3	4.2	4.3	4.4	5.9	
G140.0	6.1	6.2	6.0	6.0	4.5	4.4	4.5	4.7	6.1	
G141.0	6.4	6.4	6.2	6.2	4.6	4.6	4.7	4.9	6.4	
G142.0	6.6	6.6	6.5	6.4	4.9	4.8	4.9	5.1	6.6	
G143.0	6.8	6.9	6.7	6.7	5.1	5.0	5.1	5.3	6.8	
G144.0	7.0	7.1	7.0	6.9	5.3	5.3	5.3	5.4	7.0	
G145.0	7.2	7.3	7.2	7.2	5.4	5.4	5.5	5.6	7.2	
G146.0	7.4	7.5	7.4	7.4	5.6	5.6	5.6	5.8	7.4	
G147.0	7.7	7.7	7.6	7.6	5.9	5.8	5.9	6.1	7.7	

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	7.9	7.9	7.8	7.8	6.0	6.0	6.0	6.2	7.9	
G149.0	8.1	8.1	8.0	8.0	6.2	6.1	6.2	6.3	8.1	
G150.0	8.3	8.3	8.2	8.2	6.4	6.3	6.4	6.5	8.3	
G151.0	8.5	8.4	8.4	8.4	6.6	6.5	6.5	6.7	8.5	
G152.0	8.6	8.6	8.6	8.5	6.7	6.6	6.7	6.8	8.6	
G153.0	8.7	8.7	8.7	8.7	6.9	6.8	6.9	7.0	8.7	
G154.0	8.8	8.9	8.9	8.9	7.0	6.9	7.0	7.1	8.8	
G155.0	9.0	9.1	9.0	9.0	7.1	7.1	7.2	7.3	9.0	
G156.0	9.1	9.2	9.1	9.2	7.3	7.2	7.3	7.4	9.1	
G157.0	9.2	9.3	9.2	9.3	7.4	7.3	7.4	7.5	9.2	
G158.0	9.3	9.3	9.3	9.4	7.5	7.5	7.6	7.7	9.3	
G159.0	9.4	9.4	9.5	9.5	7.6	7.6	7.7	7.7	9.4	
G160.0	9.4	9.5	9.6	9.6	7.8	7.7	7.8	7.9	9.4	
G161.0	9.6	9.6	9.6	9.7	7.9	7.8	7.9	8.0	9.6	
G162.0	9.6	9.7	9.7	9.7	8.1	8.0	8.0	8.1	9.6	
G163.0	9.7	9.7	9.7	9.8	8.2	8.1	8.2	8.2	9.7	
G164.0	9.7	9.8	9.8	9.8	8.3	8.2	8.3	8.4	9.7	
G165.0	9.7	9.8	9.8	9.8	8.4	8.3	8.4	8.5	9.7	
G166.0	9.8	9.8	9.9	9.9	8.6	8.5	8.5	8.6	9.8	
G167.0	9.8	9.8	9.9	9.9	8.7	8.6	8.7	8.8	9.8	
G168.0	9.8	9.9	9.9	9.9	8.8	8.7	8.8	8.9	9.8	
G169.0	9.8	9.9	9.9	10.0	8.9	8.8	9.0	9.0	9.8	
G170.0	9.9	9.9	10.0	10.0	9.1	9.0	9.1	9.2	9.9	
G171.0	9.9	9.9	10.0	10.1	9.2	9.1	9.2	9.3	9.9	
G172.0	9.9	10.0	10.0	10.1	9.3	9.2	9.3	9.4	9.9	
G173.0	9.9	10.0	10.0	10.1	9.4	9.3	9.4	9.4	9.9	
G174.0	9.9	10.1	10.0	10.1	9.4	9.5	9.5	9.6	9.9	
G175.0	9.9	10.0	10.0	10.1	9.6	9.6	9.6	9.7	9.9	
G176.0	9.9	10.0	10.0	10.1	9.7	9.6	9.7	9.8	9.9	
G177.0	9.9	10.0	10.0	10.1	9.8	9.7	9.7	9.9	9.9	
G178.0	9.9	10.0	10.0	10.1	9.8	9.8	9.8	9.9	9.9	
G179.0	9.9	10.0	10.0	10.1	9.9	9.8	9.9	10.0	9.9	
G180.0	9.9	9.9	10.0	10.0	9.9	9.9	10.0	10.0	9.9	

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: