

Report No.: TH-2538A

Test Time: 2021/6/24 16:55

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: VCP2105

Current: 0.079 A

Power Factor: 0.976

Voltage: 120.1 V

Power: 9.30 W

Photometric Results

CIE Class: General Diffuse

Measurement Flux: 699.2 lm

Downward Ratio: 48%

Horizontal Diffuse Angle(50%): H287.4

Vertical Diffuse Angle(50%): V315.2

Luminaire Efficacy Rating (LER): 75.23

Max. Intensity: 76.51 cd

S/MH(C0/C180): 1.84

Total Rated Lamp Lumens: 699.2 lm

Efficiency: 100%

Upward Ratio: 52%

Central Intensity: 36.32 cd

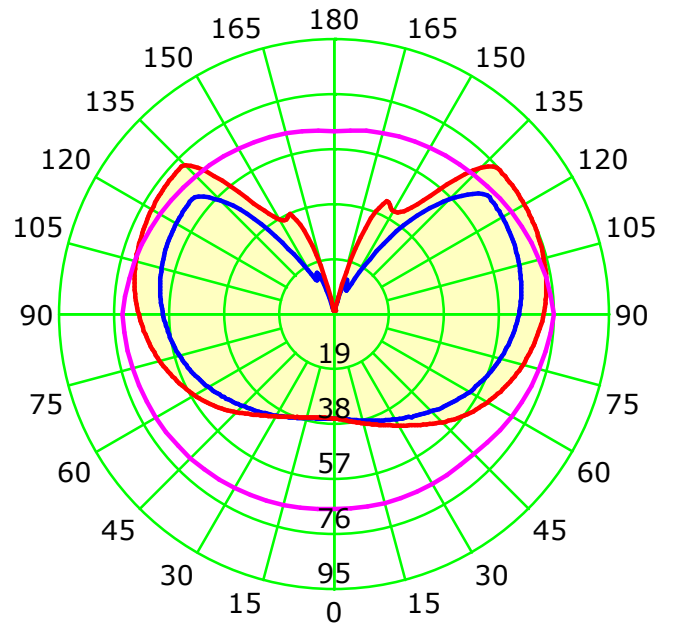
Pos of Max. Intensity: H90 V126

S/MH(C90/C270): 1.98

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 297.5°

— C0-C180 — C90-C270 — G126

C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instrument

Test Type: TYPE C

Temperature: 26

Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0

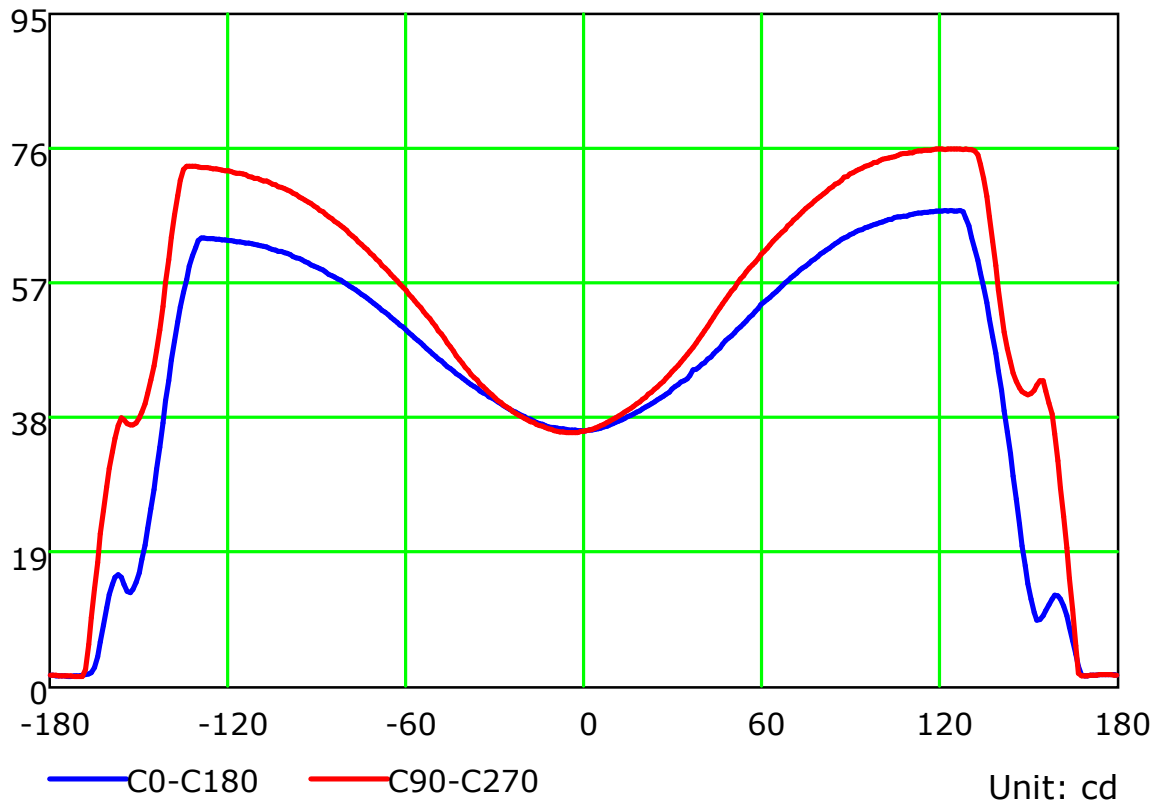
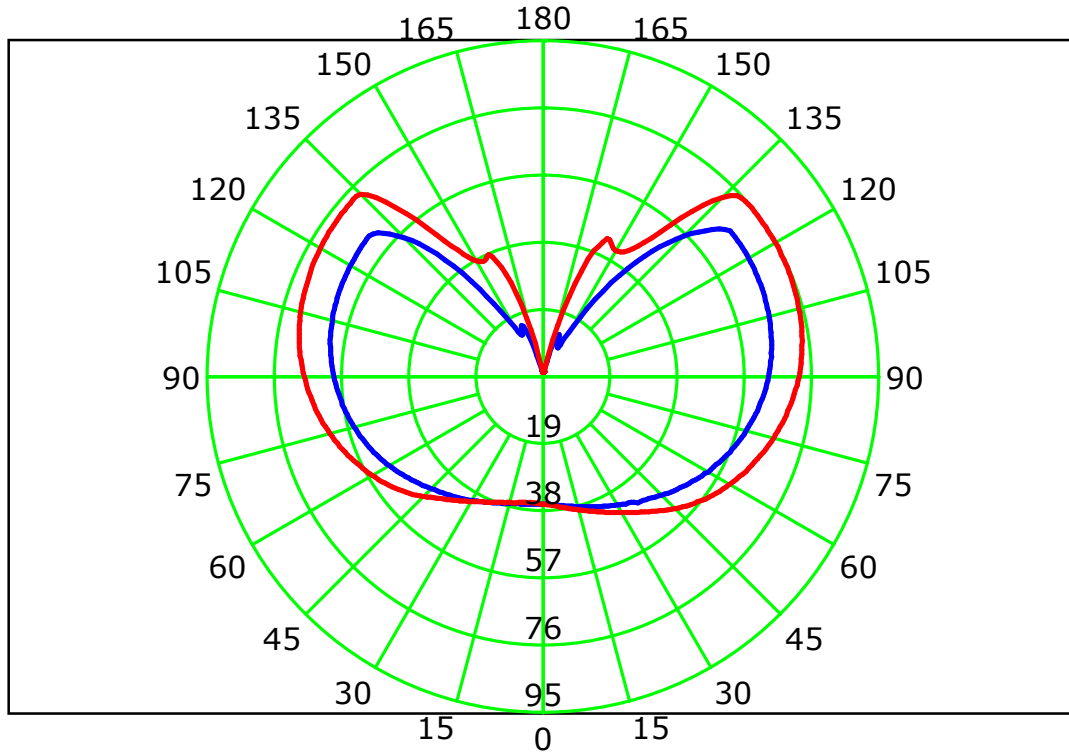
Test Device: GPM-1800B

Distance: 8.598 m

Humidity: 65

Inspector:

Luminous Intensity Distribution Curve



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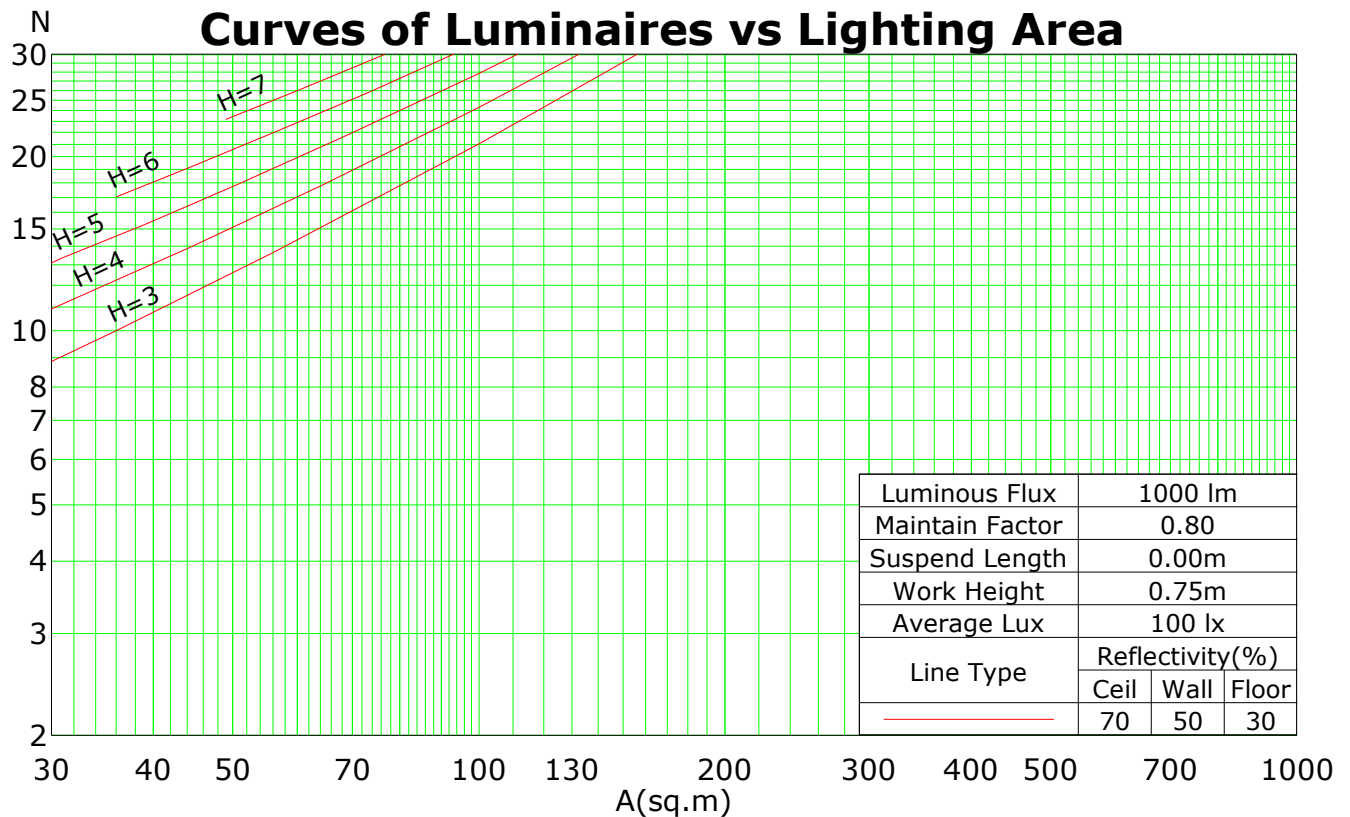
Coefficients Of Utilization - Zonal Cavity Method

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	92	86	80	75	84	79	73	69	65	61	57	52	49	46	40	38	36	30
2	82	72	64	58	75	66	59	53	54	49	44	43	39	35	33	30	27	22
3	74	62	53	46	67	57	49	42	46	40	35	37	32	28	28	24	21	16
4	67	54	45	38	61	49	41	34	40	34	28	32	27	23	24	20	17	13
5	61	48	38	31	55	43	35	29	35	29	24	28	23	19	21	17	14	10
6	56	42	33	26	51	39	30	24	32	25	20	25	20	16	19	15	12	9
7	52	38	29	23	47	35	27	21	28	22	17	23	17	14	17	13	10	7
8	48	34	26	20	43	31	23	18	26	19	15	20	16	12	16	12	9	6
9	44	31	23	17	40	28	21	16	23	17	13	19	14	10	14	11	8	5
10	41	28	20	15	38	26	19	14	21	16	12	17	13	9	13	10	7	5

Spacing Criteria (0-180): 1.84

Spacing Criteria (90-270): 1.98

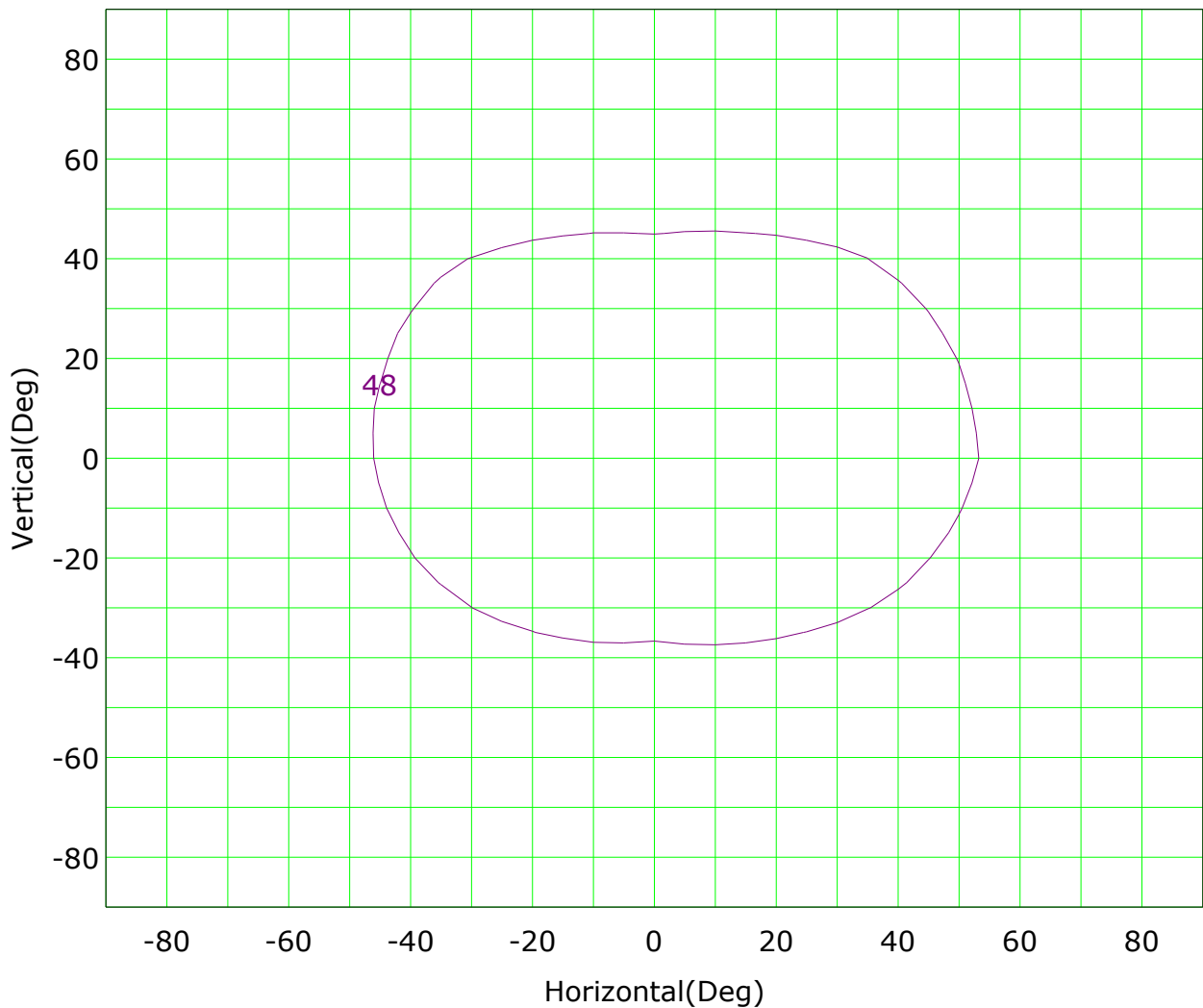
Spacing Criteria (Diagonal): 2.12



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

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

Isocandela (rectangle)



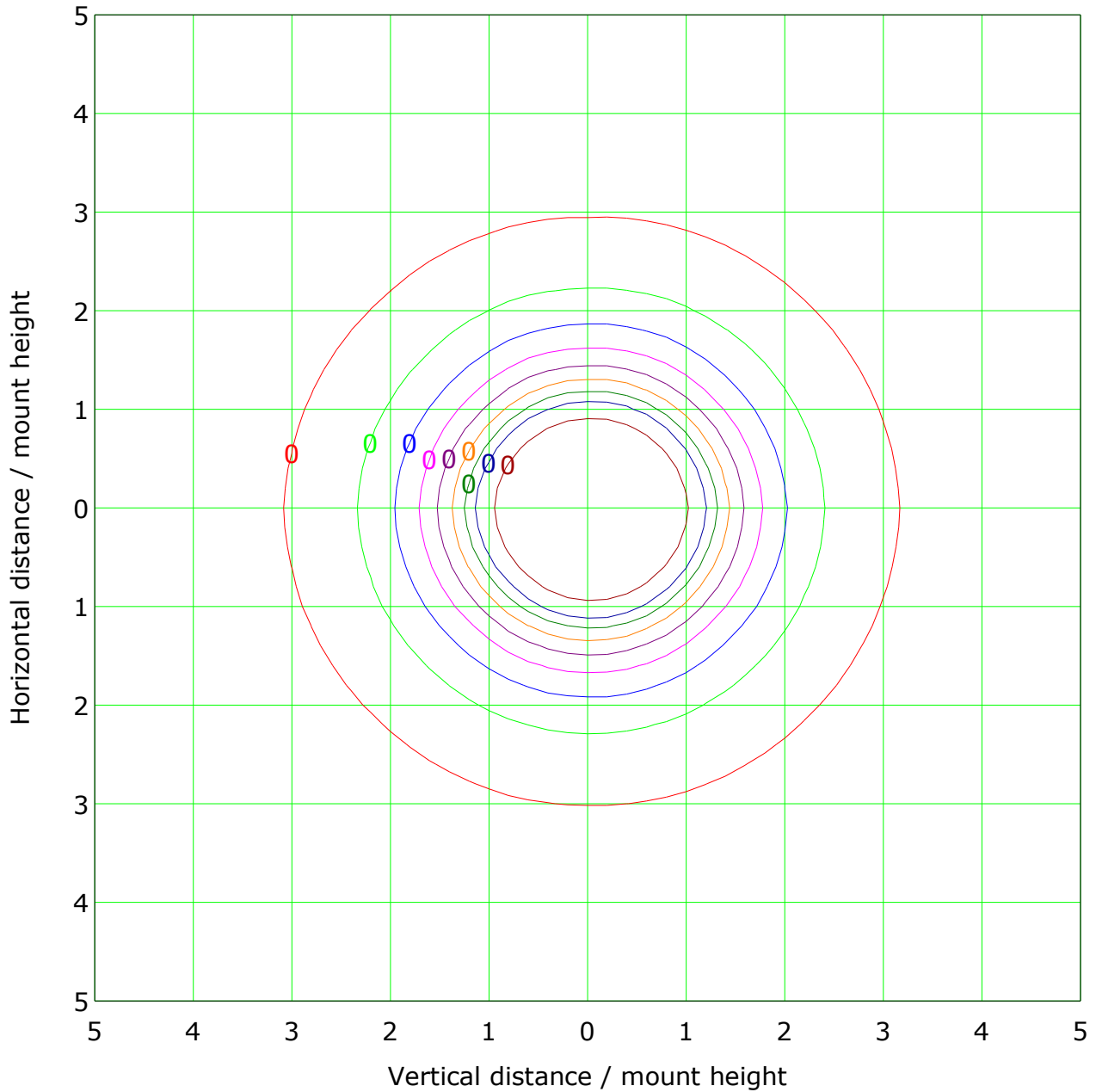
Imax (100%): 77 cd

(10%):	8 cd	(16%):	12 cd
(25%):	19 cd	(40%):	31 cd
(63%):	48 cd	(100%):	77 cd

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

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

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 0.4 lx	
(5%): 0.0 lx	(10%): 0.0 lx
(15%): 0.1 lx	(20%): 0.1 lx
(25%): 0.1 lx	(30%): 0.1 lx
(35%): 0.1 lx	(40%): 0.1 lx
(50%): 0.2 lx	(100%): 0.4 lx

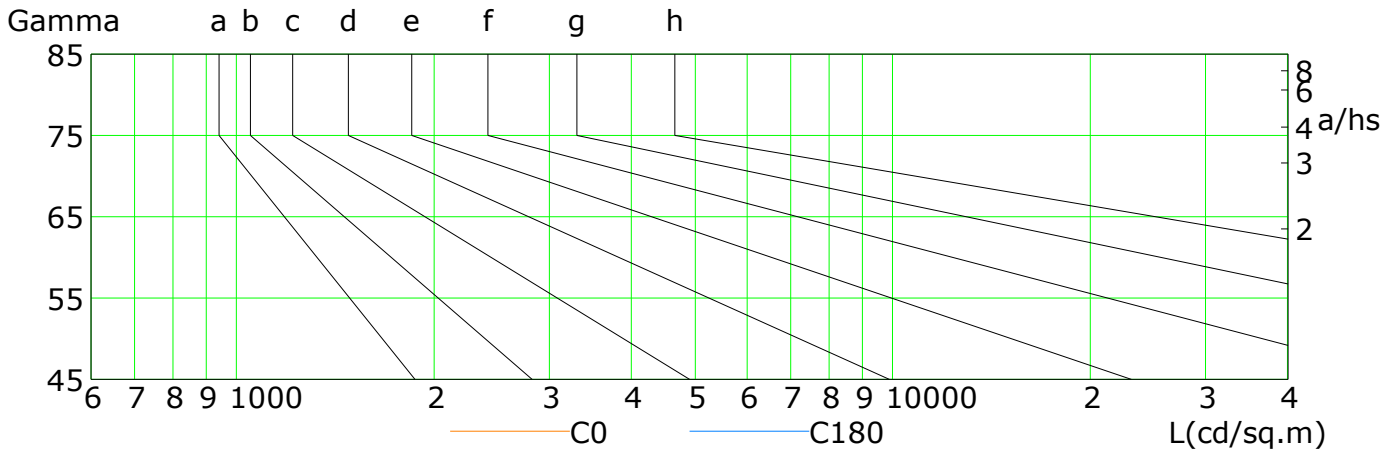
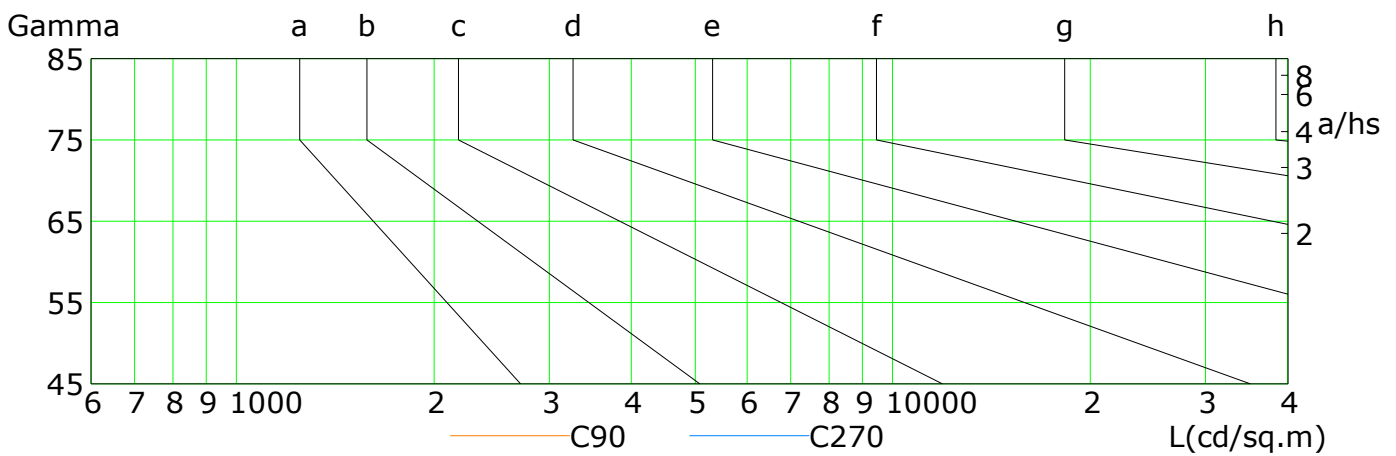
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 Inspector:

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

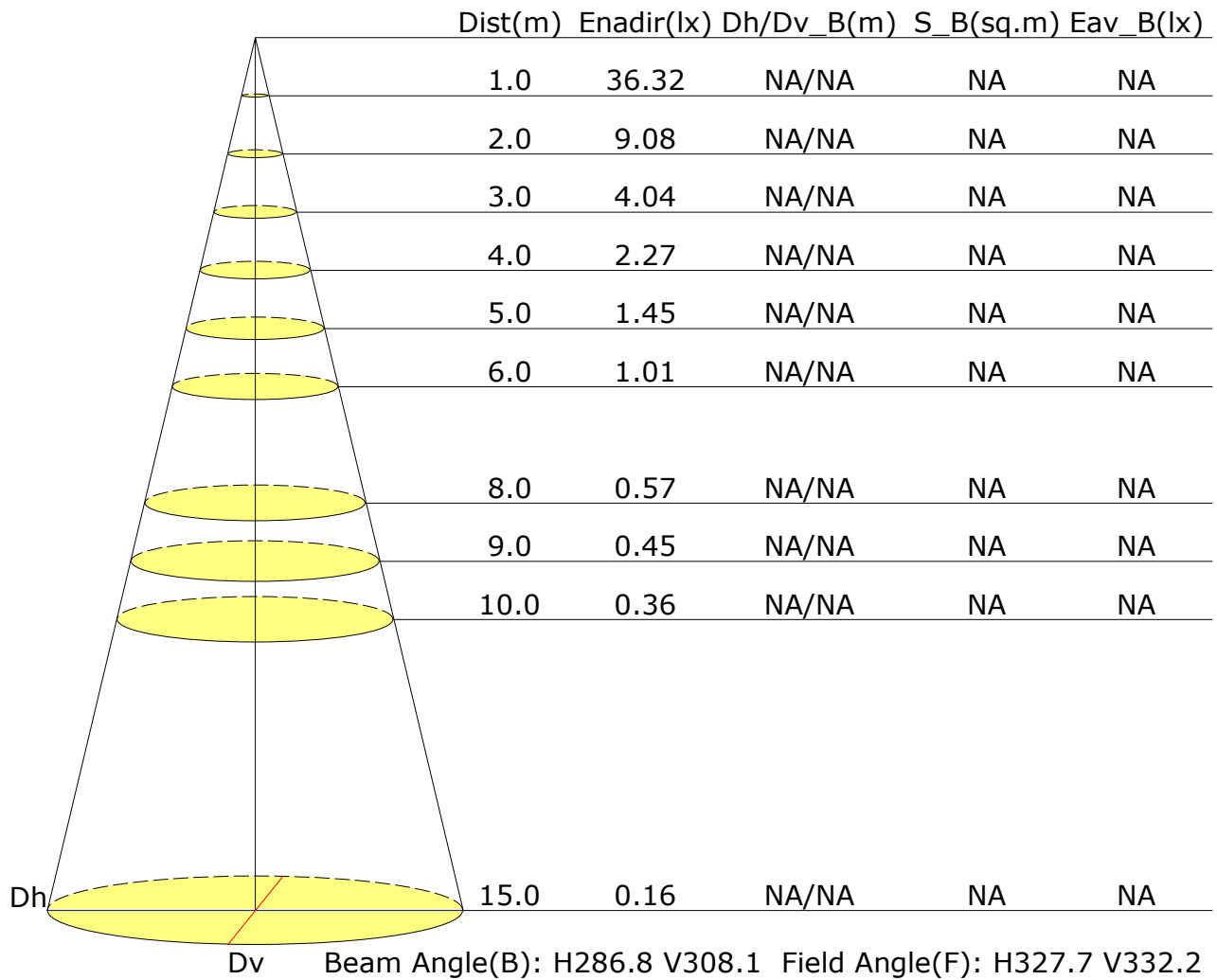


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	48	50	52	54	56	58	60	62	63
C90	53	56	59	61	64	66	68	70	71
C180	45	47	49	51	53	54	56	57	58
C270	48	51	54	56	59	61	63	65	67

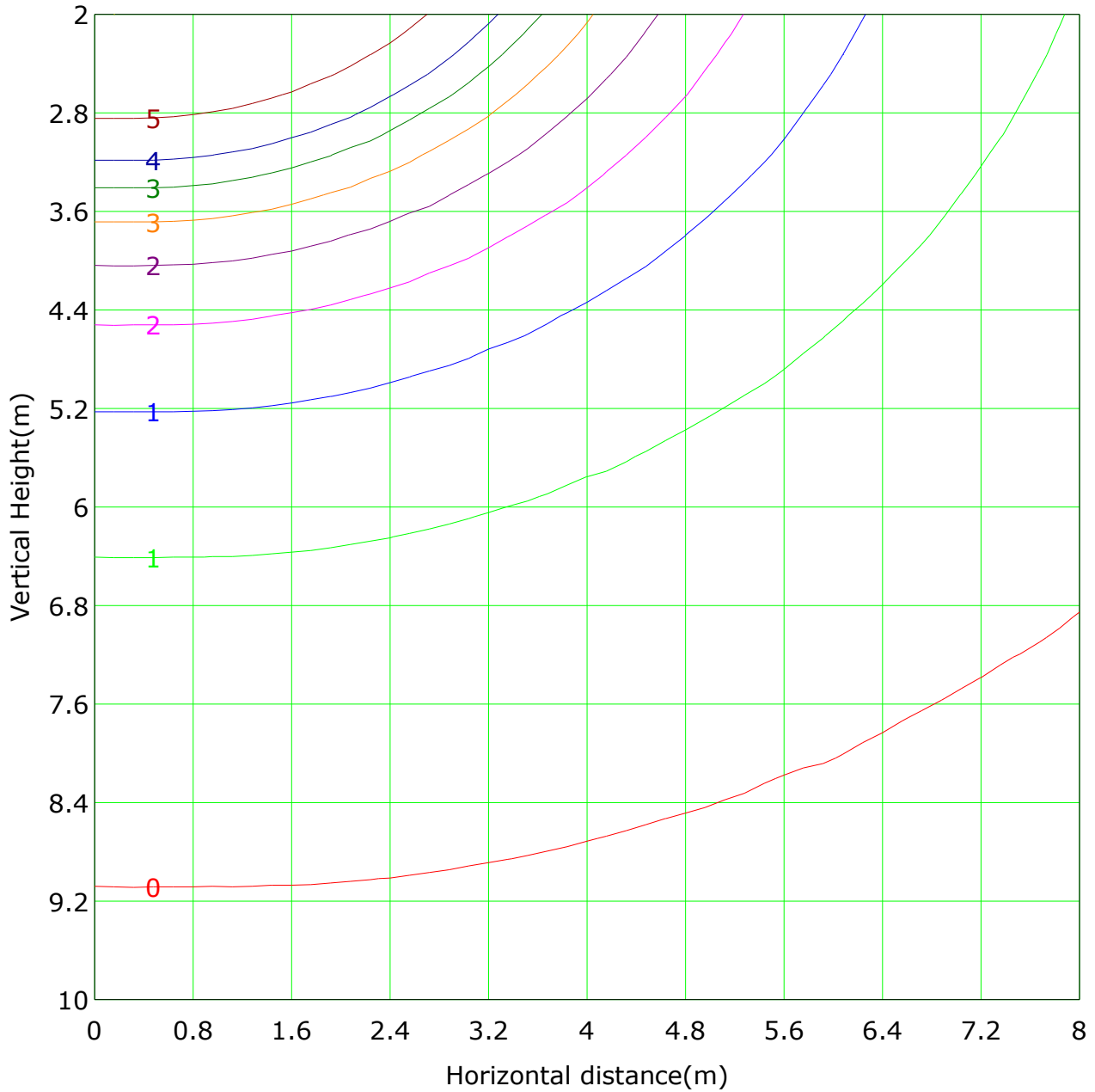
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 Distance: 8.598 m
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 Inspector:

Illuminance at a Distance



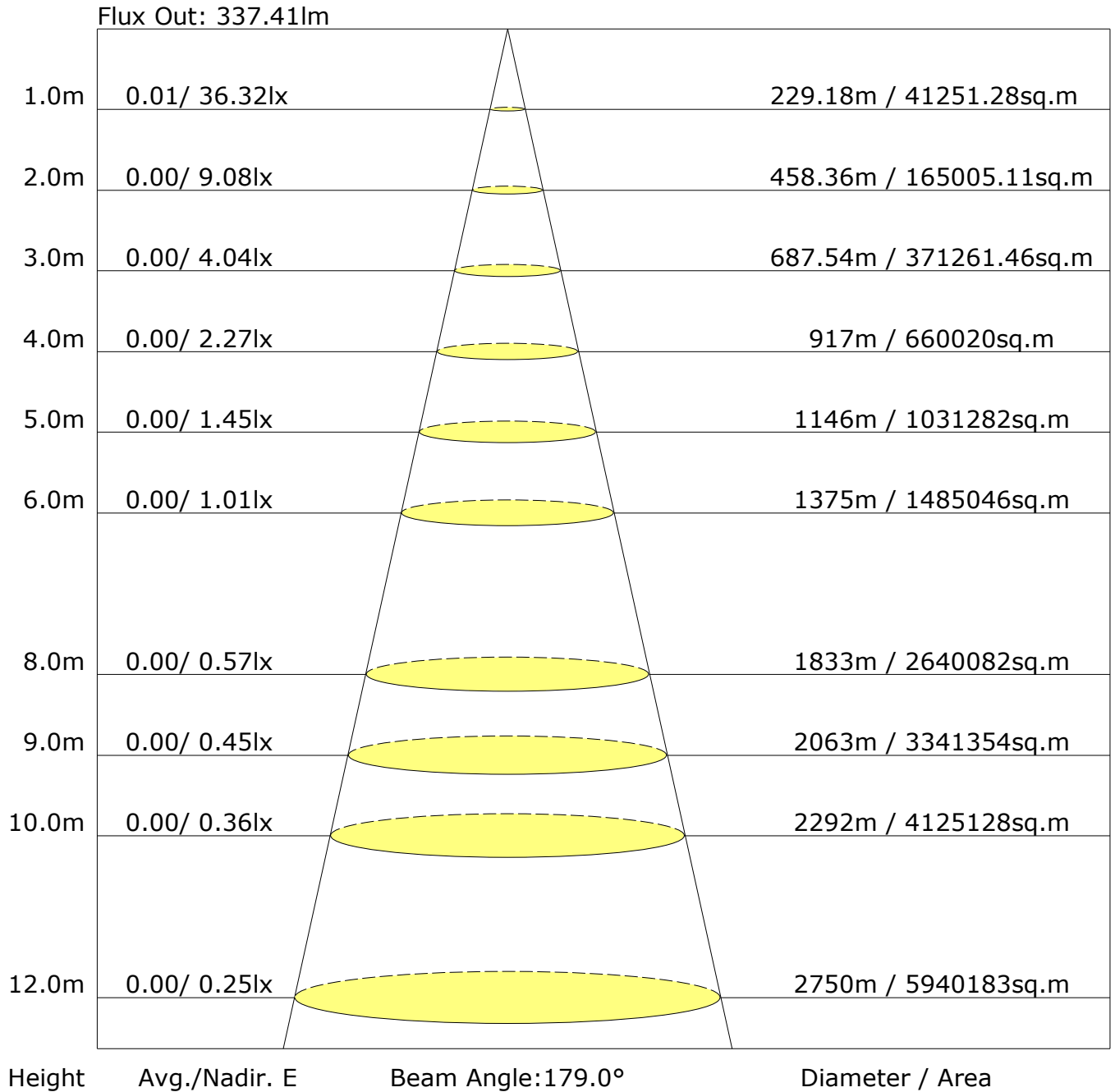
Vertical IsoLux Plot



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

Gamma Plane (°):0.0-180.0:1.0
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 Inspector:

The Average Illuminance Effective Figure



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 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	-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 699lm ($8\log(F/F_0) = -1.2$).

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

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

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	36.3	0.0	0.0	0.00	0.00
1.0-2.0	36.3	0.1	0.1	0.01	0.02
2.0-3.0	36.4	0.2	0.3	0.02	0.04
3.0-4.0	36.4	0.2	0.6	0.03	0.08
4.0-5.0	36.5	0.3	0.9	0.04	0.12
5.0-6.0	36.6	0.4	1.3	0.05	0.18
6.0-7.0	36.7	0.5	1.7	0.07	0.24
7.0-8.0	36.8	0.5	2.2	0.08	0.32
8.0-9.0	36.9	0.6	2.8	0.09	0.41
9.0-10.0	37.0	0.7	3.5	0.10	0.50
10.0-11.0	37.2	0.7	4.2	0.11	0.61
11.0-12.0	37.3	0.8	5.1	0.12	0.72
12.0-13.0	37.5	0.9	6.0	0.13	0.85
13.0-14.0	37.7	1.0	6.9	0.14	0.99
14.0-15.0	37.9	1.0	8.0	0.15	1.14
15.0-16.0	38.1	1.1	9.1	0.16	1.30
16.0-17.0	38.3	1.2	10.3	0.17	1.47
17.0-18.0	38.5	1.3	11.5	0.18	1.65
18.0-19.0	38.8	1.3	12.9	0.19	1.84
19.0-20.0	39.0	1.4	14.3	0.20	2.05
20.0-21.0	39.3	1.5	15.8	0.22	2.26
21.0-22.0	39.5	1.6	17.4	0.23	2.49
22.0-23.0	39.8	1.7	19.1	0.24	2.73
23.0-24.0	40.1	1.8	20.8	0.25	2.98
24.0-25.0	40.4	1.8	22.7	0.26	3.24
25.0-26.0	40.7	1.9	24.6	0.27	3.52
26.0-27.0	41.0	2.0	26.6	0.29	3.80
27.0-28.0	41.3	2.1	28.7	0.30	4.10
28.0-29.0	41.6	2.2	30.9	0.31	4.41
29.0-30.0	42.0	2.3	33.1	0.32	4.74
30.0-31.0	42.3	2.4	35.5	0.34	5.08
31.0-32.0	42.7	2.4	37.9	0.35	5.43
32.0-33.0	43.0	2.5	40.5	0.36	5.79
33.0-34.0	43.4	2.6	43.1	0.38	6.16
34.0-35.0	43.7	2.7	45.8	0.39	6.55
35.0-36.0	44.1	2.8	48.6	0.40	6.95

C Plane (°):0.0-360.0: 45.0
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.598 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	44.6	2.9	51.5	0.42	7.37
37.0-38.0	45.0	3.0	54.5	0.43	7.80
38.0-39.0	45.3	3.1	57.6	0.44	8.24
39.0-40.0	45.8	3.2	60.8	0.46	8.70
40.0-41.0	46.2	3.3	64.1	0.47	9.17
41.0-42.0	46.6	3.4	67.5	0.48	9.65
42.0-43.0	47.1	3.5	71.0	0.50	10.15
43.0-44.0	47.5	3.6	74.6	0.51	10.67
44.0-45.0	48.0	3.7	78.3	0.53	11.19
45.0-46.0	48.4	3.8	82.0	0.54	11.73
46.0-47.0	48.9	3.9	85.9	0.56	12.29
47.0-48.0	49.4	4.0	89.9	0.57	12.86
48.0-49.0	49.9	4.1	94.0	0.59	13.45
49.0-50.0	50.3	4.2	98.2	0.60	14.05
50.0-51.0	50.7	4.3	102.5	0.61	14.66
51.0-52.0	51.3	4.4	106.9	0.63	15.29
52.0-53.0	51.8	4.5	111.4	0.64	15.94
53.0-54.0	52.2	4.6	116.0	0.66	16.59
54.0-55.0	52.7	4.7	120.7	0.67	17.27
55.0-56.0	53.1	4.8	125.5	0.69	17.95
56.0-57.0	53.6	4.9	130.4	0.70	18.65
57.0-58.0	54.0	5.0	135.4	0.71	19.37
58.0-59.0	54.4	5.1	140.5	0.73	20.10
59.0-60.0	54.9	5.2	145.7	0.74	20.84
60.0-61.0	55.3	5.3	151.0	0.76	21.59
61.0-62.0	55.7	5.4	156.3	0.77	22.36
62.0-63.0	56.1	5.5	161.8	0.78	23.14
63.0-64.0	56.6	5.5	167.3	0.79	23.94
64.0-65.0	57.0	5.6	173.0	0.81	24.74
65.0-66.0	57.4	5.7	178.7	0.82	25.56
66.0-67.0	57.8	5.8	184.5	0.83	26.39
67.0-68.0	58.2	5.9	190.4	0.84	27.24
68.0-69.0	58.6	6.0	196.4	0.86	28.09
69.0-70.0	59.0	6.1	202.5	0.87	28.96
70.0-71.0	59.4	6.1	208.6	0.88	29.84
71.0-72.0	59.8	6.2	214.8	0.89	30.72

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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	60.2	6.3	221.1	0.90	31.63
73.0-74.0	60.5	6.4	227.5	0.91	32.54
74.0-75.0	60.9	6.4	233.9	0.92	33.46
75.0-76.0	61.3	6.5	240.4	0.93	34.39
76.0-77.0	61.6	6.6	247.0	0.94	35.33
77.0-78.0	62.0	6.6	253.6	0.95	36.28
78.0-79.0	62.4	6.7	260.3	0.96	37.23
79.0-80.0	62.7	6.8	267.1	0.97	38.20
80.0-81.0	63.0	6.8	273.9	0.98	39.18
81.0-82.0	63.4	6.9	280.8	0.98	40.16
82.0-83.0	63.7	6.9	287.7	0.99	41.15
83.0-84.0	64.0	7.0	294.7	1.00	42.15
84.0-85.0	64.3	7.0	301.7	1.00	43.15
85.0-86.0	64.6	7.1	308.8	1.01	44.16
86.0-87.0	64.9	7.1	315.9	1.02	45.18
87.0-88.0	65.2	7.1	323.0	1.02	46.20
88.0-89.0	65.5	7.2	330.2	1.03	47.23
89.0-90.0	65.8	7.2	337.4	1.03	48.26
90.0-91.0	66.0	7.2	344.6	1.04	49.29
91.0-92.0	66.3	7.3	351.9	1.04	50.33
92.0-93.0	66.6	7.3	359.2	1.04	51.38
93.0-94.0	66.8	7.3	366.5	1.05	52.42
94.0-95.0	67.0	7.3	373.8	1.05	53.47
95.0-96.0	67.3	7.3	381.2	1.05	54.52
96.0-97.0	67.5	7.4	388.5	1.05	55.57
97.0-98.0	67.7	7.4	395.9	1.05	56.63
98.0-99.0	67.9	7.4	403.3	1.05	57.68
99.0-100.0	68.1	7.4	410.6	1.05	58.73
100.0-101.0	68.3	7.4	418.0	1.05	59.79
101.0-102.0	68.4	7.4	425.3	1.05	60.84
102.0-103.0	68.6	7.3	432.7	1.05	61.89
103.0-104.0	68.8	7.3	440.0	1.05	62.94
104.0-105.0	68.9	7.3	447.3	1.05	63.98
105.0-106.0	69.1	7.3	454.6	1.04	65.03
106.0-107.0	69.2	7.3	461.9	1.04	66.07
107.0-108.0	69.3	7.3	469.2	1.04	67.10

C Plane (°):0.0-360.0: 45.0
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 Temperature: 26
 Operator: Jacky

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

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	69.5	7.2	476.4	1.03	68.14
109.0-110.0	69.6	7.2	483.6	1.03	69.17
110.0-111.0	69.7	7.2	490.7	1.02	70.19
111.0-112.0	69.8	7.1	497.9	1.02	71.21
112.0-113.0	69.9	7.1	504.9	1.01	72.22
113.0-114.0	70.0	7.0	512.0	1.01	73.23
114.0-115.0	70.1	7.0	519.0	1.00	74.23
115.0-116.0	70.2	6.9	525.9	0.99	75.22
116.0-117.0	70.2	6.9	532.8	0.99	76.21
117.0-118.0	70.3	6.8	539.7	0.98	77.19
118.0-119.0	70.4	6.8	546.4	0.97	78.16
119.0-120.0	70.4	6.7	553.2	0.96	79.12
120.0-121.0	70.5	6.7	559.8	0.95	80.07
121.0-122.0	70.5	6.6	566.4	0.94	81.01
122.0-123.0	70.5	6.5	572.9	0.93	81.95
123.0-124.0	70.4	6.4	579.4	0.92	82.87
124.0-125.0	70.3	6.3	585.7	0.91	83.77
125.0-126.0	69.9	6.2	592.0	0.89	84.67
126.0-127.0	69.4	6.1	598.1	0.87	85.54
127.0-128.0	68.7	6.0	604.1	0.85	86.40
128.0-129.0	67.9	5.8	609.9	0.83	87.23
129.0-130.0	66.9	5.7	615.5	0.81	88.04
130.0-131.0	65.8	5.5	621.0	0.78	88.82
131.0-132.0	64.6	5.3	626.3	0.76	89.58
132.0-133.0	63.4	5.1	631.5	0.73	90.32
133.0-134.0	62.0	4.9	636.4	0.71	91.02
134.0-135.0	60.4	4.7	641.1	0.68	91.70
135.0-136.0	58.4	4.5	645.6	0.64	92.34
136.0-137.0	56.0	4.2	649.8	0.61	92.95
137.0-138.0	53.3	4.0	653.8	0.57	93.51
138.0-139.0	50.3	3.7	657.4	0.52	94.03
139.0-140.0	47.3	3.4	660.8	0.48	94.52
140.0-141.0	44.2	3.1	663.9	0.44	94.96
141.0-142.0	41.4	2.8	666.7	0.40	95.36
142.0-143.0	38.7	2.6	669.3	0.37	95.73
143.0-144.0	36.2	2.4	671.7	0.34	96.07

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

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	34.0	2.2	673.8	0.31	96.38
145.0-146.0	32.2	2.0	675.8	0.29	96.66
146.0-147.0	30.7	1.9	677.7	0.27	96.93
147.0-148.0	29.5	1.7	679.4	0.25	97.18
148.0-149.0	28.7	1.6	681.1	0.24	97.41
149.0-150.0	28.2	1.6	682.6	0.22	97.64
150.0-151.0	28.1	1.5	684.2	0.22	97.86
151.0-152.0	28.1	1.5	685.6	0.21	98.07
152.0-153.0	28.3	1.4	687.1	0.20	98.27
153.0-154.0	28.6	1.4	688.5	0.20	98.47
154.0-155.0	28.8	1.4	689.8	0.19	98.67
155.0-156.0	28.9	1.3	691.1	0.19	98.85
156.0-157.0	28.6	1.3	692.4	0.18	99.03
157.0-158.0	27.9	1.2	693.6	0.17	99.20
158.0-159.0	26.7	1.1	694.6	0.15	99.35
159.0-160.0	25.0	1.0	695.6	0.14	99.49
160.0-161.0	23.0	0.8	696.4	0.12	99.61
161.0-162.0	20.6	0.7	697.2	0.10	99.71
162.0-163.0	17.8	0.6	697.7	0.08	99.80
163.0-164.0	14.7	0.5	698.2	0.07	99.86
164.0-165.0	11.3	0.3	698.5	0.05	99.91
165.0-166.0	7.9	0.2	698.7	0.03	99.94
166.0-167.0	5.1	0.1	698.9	0.02	99.96
167.0-168.0	3.1	0.1	699.0	0.01	99.97
168.0-169.0	1.9	0.0	699.0	0.01	99.98
169.0-170.0	1.4	0.0	699.0	0.00	99.98
170.0-171.0	1.4	0.0	699.0	0.00	99.98
171.0-172.0	1.4	0.0	699.1	0.00	99.99
172.0-173.0	1.4	0.0	699.1	0.00	99.99
173.0-174.0	1.4	0.0	699.1	0.00	99.99
174.0-175.0	1.4	0.0	699.1	0.00	100.00
175.0-176.0	1.4	0.0	699.1	0.00	100.00
176.0-177.0	1.5	0.0	699.1	0.00	100.00
177.0-178.0	1.5	0.0	699.2	0.00	100.00
178.0-179.0	1.5	0.0	699.2	0.00	100.00
179.0-180.0	1.5	0.0	699.2	0.00	100.00

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

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	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	
G1.0	36.4	36.3	36.4	36.4	36.4	36.3	36.3	36.3	36.4	
G2.0	36.4	36.4	36.5	36.5	36.4	36.2	36.1	36.2	36.4	
G3.0	36.5	36.5	36.6	36.7	36.5	36.2	36.1	36.2	36.5	
G4.0	36.5	36.6	36.7	36.7	36.5	36.2	36.1	36.2	36.5	
G5.0	36.6	36.8	36.9	36.8	36.5	36.1	36.1	36.2	36.6	
G6.0	36.7	36.9	37.1	37.0	36.6	36.2	36.1	36.2	36.7	
G7.0	36.9	37.1	37.3	37.1	36.6	36.2	36.2	36.3	36.9	
G8.0	37.0	37.3	37.5	37.2	36.7	36.3	36.2	36.4	37.0	
G9.0	37.2	37.4	37.8	37.4	36.7	36.4	36.3	36.5	37.2	
G10.0	37.4	37.6	38.0	37.6	36.8	36.4	36.4	36.6	37.4	
G11.0	37.6	37.9	38.2	37.8	36.8	36.5	36.6	36.7	37.6	
G12.0	37.7	38.1	38.4	38.0	36.9	36.6	36.7	36.8	37.7	
G13.0	37.9	38.3	38.7	38.2	37.1	36.7	36.9	37.0	37.9	
G14.0	38.1	38.6	39.0	38.3	37.3	36.9	37.0	37.2	38.1	
G15.0	38.4	38.8	39.3	38.6	37.4	37.0	37.1	37.3	38.4	
G16.0	38.6	39.1	39.6	38.9	37.5	37.2	37.3	37.5	38.6	
G17.0	38.8	39.3	39.8	39.0	37.8	37.4	37.5	37.7	38.8	
G18.0	39.0	39.6	40.2	39.2	38.0	37.5	37.7	37.9	39.0	
G19.0	39.2	39.9	40.5	39.6	38.1	37.8	37.9	38.1	39.2	
G20.0	39.5	40.2	40.8	39.9	38.4	38.0	38.1	38.3	39.5	
G21.0	39.7	40.5	41.1	40.2	38.5	38.2	38.4	38.5	39.7	
G22.0	40.0	40.8	41.6	40.5	38.8	38.4	38.6	38.7	40.0	
G23.0	40.2	41.1	41.9	40.8	39.0	38.7	38.9	38.9	40.2	
G24.0	40.5	41.5	42.3	41.1	39.3	38.9	39.1	39.2	40.5	
G25.0	40.7	41.8	42.6	41.4	39.4	39.1	39.4	39.5	40.7	
G26.0	41.0	42.2	43.0	41.8	39.7	39.4	39.7	39.7	41.0	
G27.0	41.3	42.5	43.4	42.1	39.9	39.7	40.0	40.0	41.3	
G28.0	41.6	42.9	43.8	42.4	40.2	40.0	40.4	40.3	41.6	
G29.0	41.9	43.2	44.3	42.8	40.5	40.3	40.7	40.6	41.9	
G30.0	42.3	43.6	44.7	43.2	40.8	40.6	41.0	40.9	42.3	
G31.0	42.7	44.0	45.2	43.5	41.0	40.9	41.4	41.2	42.7	
G32.0	42.9	44.4	45.7	43.8	41.2	41.2	41.8	41.6	42.9	
G33.0	43.3	44.8	46.2	44.2	41.5	41.5	42.2	41.9	43.3	
G34.0	43.5	45.2	46.7	44.6	41.8	41.8	42.6	42.2	43.5	
G35.0	43.8	45.7	47.2	45.0	42.1	42.2	43.1	42.6	43.8	
G36.0	44.2	46.1	47.7	45.3	42.4	42.5	43.5	43.0	44.2	

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

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	45.0	46.5	48.2	45.7	42.7	42.8	44.0	43.3	45.0	
G38.0	45.1	46.9	48.8	46.1	42.9	43.2	44.4	43.7	45.1	
G39.0	45.4	47.4	49.4	46.5	43.3	43.5	44.9	44.1	45.4	
G40.0	45.8	47.8	50.0	46.9	43.5	43.9	45.4	44.4	45.8	
G41.0	46.1	48.2	50.6	47.3	43.9	44.2	45.9	44.8	46.1	
G42.0	46.5	48.7	51.3	47.8	44.2	44.6	46.5	45.2	46.5	
G43.0	46.9	49.2	51.9	48.2	44.5	45.1	47.0	45.6	46.9	
G44.0	47.3	49.6	52.5	48.5	44.8	45.4	47.7	46.0	47.3	
G45.0	47.8	50.2	53.2	48.9	45.2	45.8	48.3	46.5	47.8	
G46.0	48.2	50.6	53.9	49.4	45.5	46.1	48.8	46.9	48.2	
G47.0	48.7	51.0	54.4	49.9	45.9	46.6	49.5	47.3	48.7	
G48.0	49.2	51.5	55.0	50.3	46.3	47.0	50.1	47.7	49.2	
G49.0	49.6	52.0	55.7	50.7	46.6	47.4	50.6	48.2	49.6	
G50.0	49.9	52.4	56.2	51.1	47.0	47.8	51.2	48.6	49.9	
G51.0	50.3	52.9	56.7	51.6	47.3	48.2	51.7	49.0	50.3	
G52.0	50.8	53.3	57.4	52.0	47.7	48.6	52.3	50.3	50.8	
G53.0	51.2	53.8	57.9	52.4	48.0	49.0	52.8	50.8	51.2	
G54.0	51.6	54.2	58.4	52.8	48.5	49.5	53.3	51.2	51.6	
G55.0	52.0	54.7	59.0	53.2	48.8	49.9	53.8	51.7	52.0	
G56.0	52.5	55.2	59.5	53.6	49.2	50.3	54.3	52.1	52.5	
G57.0	52.9	55.6	60.0	54.1	49.6	50.7	54.9	52.5	52.9	
G58.0	53.3	56.1	60.4	54.5	50.0	51.1	55.4	53.0	53.3	
G59.0	53.7	56.5	60.9	54.9	50.3	51.5	55.8	53.4	53.7	
G60.0	54.3	57.0	61.4	55.3	50.7	51.9	56.3	53.9	54.3	
G61.0	54.7	57.4	61.9	55.7	51.1	52.3	56.8	54.4	54.7	
G62.0	55.1	57.9	62.3	56.1	51.4	52.7	57.2	54.8	55.1	
G63.0	55.3	58.3	62.8	56.5	51.8	53.1	57.7	55.2	55.3	
G64.0	55.8	58.7	63.3	56.9	52.1	53.5	58.1	55.7	55.8	
G65.0	56.2	59.1	63.8	57.3	52.5	53.9	58.6	56.0	56.2	
G66.0	56.5	59.5	64.2	57.7	52.9	54.3	59.1	56.5	56.5	
G67.0	56.9	60.0	64.6	58.1	53.2	54.7	59.5	56.9	56.9	
G68.0	57.4	60.4	65.0	58.4	53.5	55.2	59.9	57.4	57.4	
G69.0	57.7	60.8	65.5	58.9	53.9	55.4	60.4	57.8	57.7	
G70.0	58.1	61.2	65.9	59.3	54.2	55.9	60.8	58.3	58.1	
G71.0	58.4	61.6	66.4	59.6	54.5	56.3	61.3	58.6	58.4	
G72.0	58.8	62.0	66.7	60.0	54.9	56.7	61.6	59.0	58.8	
G73.0	59.2	62.4	67.2	60.3	55.2	57.0	62.1	59.4	59.2	

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

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	59.5	62.8	67.6	60.6	55.5	57.4	62.5	59.9	59.5	
G75.0	59.8	63.2	68.0	61.0	55.8	57.8	62.9	60.2	59.8	
G76.0	60.2	63.5	68.3	61.5	56.1	58.2	63.3	60.6	60.2	
G77.0	60.5	64.0	68.6	61.8	56.4	58.5	63.7	61.0	60.5	
G78.0	60.8	64.3	69.1	62.1	56.7	58.9	64.1	61.4	60.8	
G79.0	61.2	64.6	69.4	62.5	57.0	59.3	64.4	61.8	61.2	
G80.0	61.5	65.0	69.7	62.8	57.3	59.6	64.8	62.2	61.5	
G81.0	61.8	65.3	70.1	63.2	57.5	60.0	65.2	62.6	61.8	
G82.0	62.1	65.6	70.4	63.5	57.8	60.3	65.6	63.0	62.1	
G83.0	62.4	66.0	70.8	63.7	58.0	60.7	65.9	63.3	62.4	
G84.0	62.7	66.3	71.1	64.1	58.2	61.0	66.2	63.6	62.7	
G85.0	63.0	66.7	71.4	64.4	58.4	61.4	66.5	64.0	63.0	
G86.0	63.3	66.9	71.7	64.7	58.7	61.7	66.8	64.3	63.3	
G87.0	63.6	67.3	72.0	65.0	58.9	62.0	67.2	64.7	63.6	
G88.0	63.8	67.6	72.4	65.3	59.2	62.3	67.5	65.0	63.8	
G89.0	64.0	67.8	72.6	65.5	59.4	62.6	67.8	65.3	64.0	
G90.0	64.3	68.2	72.9	65.8	59.6	63.0	68.0	65.6	64.3	
G91.0	64.4	68.4	73.1	66.1	59.8	63.2	68.4	66.0	64.4	
G92.0	64.7	68.7	73.3	66.3	60.0	63.5	68.7	66.3	64.7	
G93.0	64.9	68.9	73.6	66.6	60.3	63.8	68.9	66.6	64.9	
G94.0	65.0	69.1	73.7	66.8	60.5	64.0	69.2	66.8	65.0	
G95.0	65.3	69.3	74.0	67.1	60.7	64.4	69.5	67.1	65.3	
G96.0	65.3	69.6	74.1	67.3	60.9	64.6	69.7	67.5	65.3	
G97.0	65.5	69.8	74.2	67.6	61.0	64.9	70.0	67.7	65.5	
G98.0	65.7	69.9	74.5	67.7	61.2	65.1	70.1	68.0	65.7	
G99.0	65.8	70.2	74.6	68.0	61.4	65.4	70.4	68.2	65.8	
G100.0	66.0	70.2	74.8	68.2	61.6	65.6	70.6	68.5	66.0	
G101.0	66.1	70.4	75.0	68.4	61.7	65.8	70.8	68.8	66.1	
G102.0	66.2	70.6	75.1	68.6	61.8	66.0	71.0	68.9	66.2	
G103.0	66.4	70.8	75.2	68.7	61.9	66.3	71.1	69.1	66.4	
G104.0	66.5	70.9	75.3	68.9	62.1	66.4	71.3	69.3	66.5	
G105.0	66.7	71.0	75.4	69.1	62.2	66.6	71.5	69.4	66.7	
G106.0	66.8	71.2	75.6	69.2	62.4	66.8	71.7	69.7	66.8	
G107.0	66.8	71.2	75.7	69.4	62.5	66.9	71.9	69.8	66.8	
G108.0	66.9	71.4	75.8	69.5	62.6	67.1	71.9	69.9	66.9	
G109.0	66.9	71.6	75.8	69.6	62.7	67.3	72.1	70.2	66.9	
G110.0	67.1	71.6	75.9	69.8	62.8	67.5	72.3	70.3	67.1	

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

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	67.2	71.7	75.9	69.9	62.9	67.6	72.3	70.5	67.2	
G112.0	67.3	71.7	76.1	70.0	63.0	67.7	72.4	70.5	67.3	
G113.0	67.4	71.8	76.1	70.0	63.1	67.8	72.6	70.7	67.4	
G114.0	67.4	71.9	76.2	70.2	63.1	67.9	72.8	70.9	67.4	
G115.0	67.4	72.0	76.3	70.3	63.2	68.0	72.9	70.9	67.4	
G116.0	67.4	72.0	76.3	70.3	63.2	68.1	73.0	71.0	67.4	
G117.0	67.5	72.1	76.2	70.4	63.3	68.3	73.0	71.2	67.5	
G118.0	67.5	72.1	76.4	70.5	63.3	68.5	73.1	71.4	67.5	
G119.0	67.6	72.1	76.5	70.6	63.4	68.6	73.3	71.4	67.6	
G120.0	67.6	72.1	76.5	70.6	63.5	68.6	73.3	71.5	67.6	
G121.0	67.7	71.9	76.5	70.7	63.5	68.6	73.3	71.6	67.7	
G122.0	67.7	71.9	76.4	70.7	63.5	68.8	73.5	71.6	67.7	
G123.0	67.6	71.6	76.4	70.7	63.6	68.8	73.6	71.7	67.6	
G124.0	67.7	70.9	76.5	70.2	63.7	68.9	73.6	71.7	67.7	
G125.0	67.6	70.0	76.5	69.5	63.7	68.5	73.7	71.4	67.6	
G126.0	67.6	68.6	76.5	68.6	63.7	68.1	73.7	70.8	67.6	
G127.0	67.7	66.6	76.5	67.4	63.7	67.4	73.8	69.5	67.7	
G128.0	67.5	64.6	76.4	65.7	63.8	66.3	73.8	68.3	67.5	
G129.0	66.6	62.6	76.4	64.2	63.8	64.9	73.9	66.8	66.6	
G130.0	65.5	60.4	76.3	62.8	63.4	63.5	73.9	65.1	65.5	
G131.0	63.9	58.0	76.3	61.5	62.5	62.3	74.0	63.3	63.9	
G132.0	62.3	56.1	76.2	60.2	61.2	61.2	74.0	61.4	62.3	
G133.0	60.6	54.5	75.6	58.0	59.8	60.1	74.0	59.7	60.6	
G134.0	58.8	53.1	74.2	55.4	57.9	58.6	74.0	58.2	58.8	
G135.0	56.8	51.7	72.3	52.4	56.0	56.4	73.5	57.0	56.8	
G136.0	54.6	49.6	69.7	49.4	54.0	53.6	72.0	55.6	54.6	
G137.0	52.2	47.1	66.8	46.3	51.8	50.3	69.8	53.9	52.2	
G138.0	49.8	44.0	63.3	43.0	49.2	47.1	67.1	51.5	49.8	
G139.0	47.4	40.9	59.9	39.6	46.4	43.9	63.9	48.6	47.4	
G140.0	44.8	37.7	56.4	37.0	43.5	40.2	60.7	45.2	44.8	
G141.0	42.1	34.5	53.1	34.9	40.6	37.4	57.5	42.0	42.1	
G142.0	39.2	31.3	50.4	33.3	37.5	35.3	54.1	38.8	39.2	
G143.0	36.2	28.5	48.1	32.0	34.0	33.8	50.7	35.5	36.2	
G144.0	33.1	26.5	46.1	30.9	30.9	32.6	47.8	32.1	33.1	
G145.0	29.9	25.2	44.6	29.8	28.0	31.6	45.5	29.9	29.9	
G146.0	26.6	24.6	43.4	28.9	25.2	30.6	43.6	28.4	26.6	
G147.0	23.0	24.8	42.5	28.3	22.4	29.6	41.7	27.7	23.0	

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

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	20.0	25.2	41.9	28.2	20.1	29.1	40.3	27.4	20.0	
G149.0	17.2	26.1	41.7	28.6	18.1	28.9	39.0	27.4	17.2	
G150.0	14.6	27.4	41.5	29.9	16.2	29.1	38.2	27.8	14.6	
G151.0	12.4	28.5	41.7	31.6	14.8	30.0	37.5	28.4	12.4	
G152.0	10.5	29.1	42.1	32.9	13.8	31.2	37.2	28.8	10.5	
G153.0	9.4	29.2	42.9	33.7	13.3	32.5	37.2	29.1	9.4	
G154.0	9.5	29.2	43.5	33.6	13.5	33.3	37.4	29.6	9.5	
G155.0	10.0	28.9	43.4	32.9	14.5	33.3	38.0	30.2	10.0	
G156.0	10.8	28.3	42.0	32.9	15.6	32.5	38.2	30.9	10.8	
G157.0	11.6	27.2	40.3	31.9	15.9	31.9	37.1	31.2	11.6	
G158.0	12.4	25.8	38.7	30.5	15.6	31.0	35.3	30.4	12.4	
G159.0	12.9	24.5	36.0	28.1	14.5	29.6	33.4	28.8	12.9	
G160.0	12.9	23.3	32.1	25.4	13.0	27.8	31.0	27.0	12.9	
G161.0	12.4	21.6	28.2	22.3	11.1	25.2	28.4	25.7	12.4	
G162.0	11.4	19.6	24.2	18.9	8.7	22.6	25.0	23.9	11.4	
G163.0	10.1	17.1	19.8	14.7	6.3	19.1	21.7	21.7	10.1	
G164.0	8.4	14.5	15.4	9.5	4.2	15.3	17.6	19.2	8.4	
G165.0	6.5	11.8	10.9	4.4	2.7	10.2	13.8	16.2	6.5	
G166.0	4.6	9.0	5.7	0.9	2.0	5.2	9.8	13.0	4.6	
G167.0	2.9	5.9	1.8	0.5	1.8	1.9	5.9	9.9	2.9	
G168.0	1.6	2.9	1.5	0.5	1.7	1.4	2.5	6.3	1.6	
G169.0	1.5	1.5	1.5	0.5	1.6	1.4	1.4	2.5	1.5	
G170.0	1.5	1.5	1.5	0.5	1.5	1.4	1.4	1.5	1.5	
G171.0	1.6	1.6	1.6	0.5	1.5	1.4	1.4	1.5	1.6	
G172.0	1.6	1.6	1.6	0.5	1.5	1.4	1.4	1.5	1.6	
G173.0	1.6	1.6	1.6	0.5	1.4	1.4	1.5	1.5	1.6	
G174.0	1.7	1.7	1.7	0.5	1.4	1.4	1.5	1.5	1.7	
G175.0	1.7	1.7	1.7	0.5	1.5	1.4	1.5	1.5	1.7	
G176.0	1.7	1.7	1.7	0.5	1.5	1.5	1.5	1.6	1.7	
G177.0	1.7	1.7	1.7	0.5	1.5	1.5	1.5	1.6	1.7	
G178.0	1.7	1.6	1.7	0.5	1.5	1.5	1.5	1.6	1.7	
G179.0	1.6	1.6	1.6	0.5	1.6	1.5	1.6	1.6	1.6	
G180.0	1.6	1.6	1.6	0.5	1.6	1.6	1.6	1.7	1.6	

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

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