

Report No.: TH-2671A

Test Time: 2021/9/29 12:31

Luminaire Property

Luminaire Manufacturer:
 Luminaire Category:
 Lamp Catalog:
 Number of Lamps:
 Luminous Length (mm):
 Luminous Height (mm):
 Current: 0.051 A
 Power Factor: 0.976

Luminaire Description: VAP2201
 Lamp Description:
 Lumens per Lamp:
 Luminous Width (mm):
 Voltage: 120.1 V
 Power: 6.01 W

Photometric Results

CIE Class: Semi-Direct
 Measurement Flux: 288.4 lm
 Downward Ratio: 61%
 Horizontal Diffuse Angle(50%): H103.3
 Vertical Diffuse Angle(50%): V116.2
 Luminaire Efficacy Rating (LER): 48.04
 Max. Intensity: 77.41 cd
 S/MH(C0/C180): 1.27

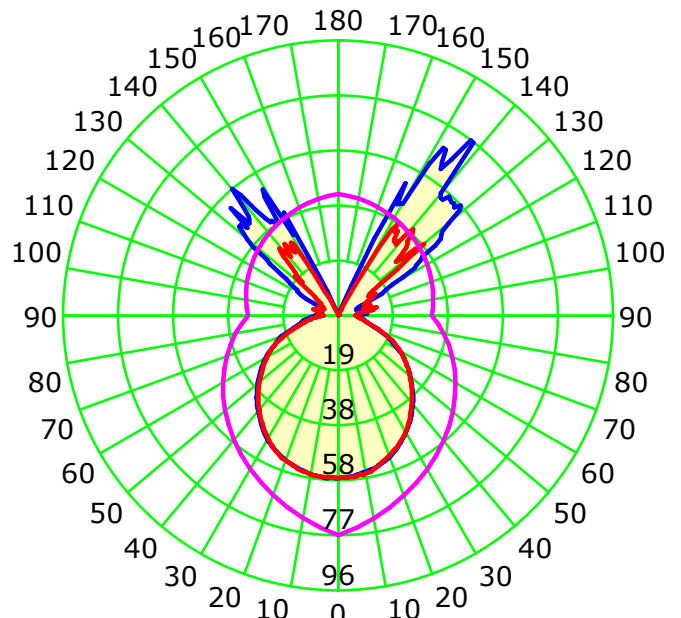
Total Rated Lamp Lumens: 288.4 lm
 Efficiency: 100%
 Upward Ratio: 39%

C0r0 Intensity: 57.15 cd
 Pos of Max. Intensity: H0 V143
 S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

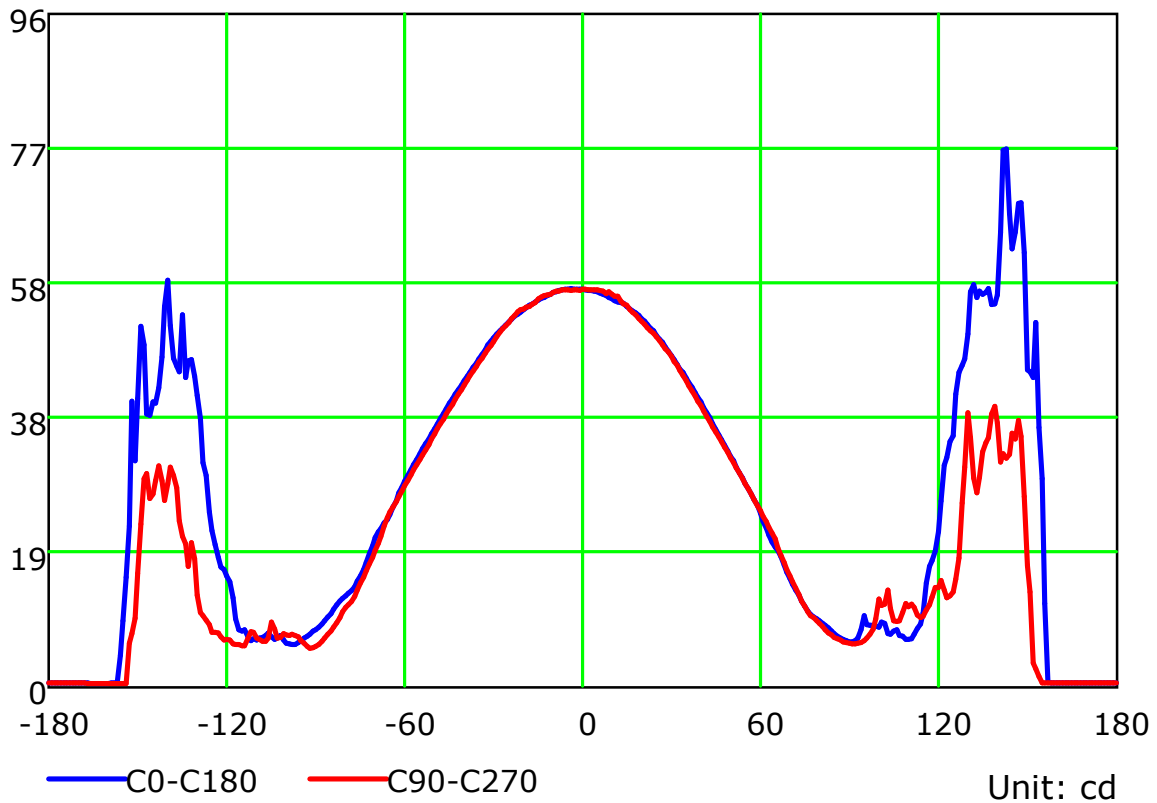
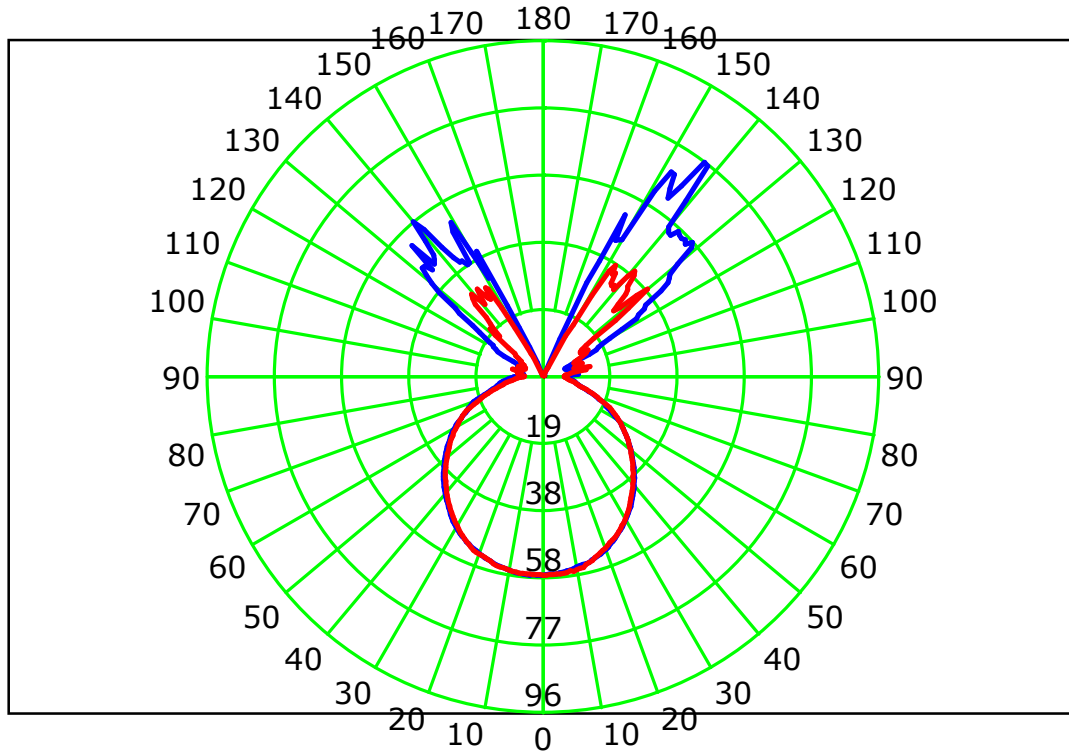
Average Diffuse Angle(50%): 301.5°

— C0-C180 — C90-C270 — G143

C Plane (°):0.0-360.0: 90.0
 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 [K=1.0000]
 Humidity: 65
 Inspector:

Luminous Intensity Distribution Curve



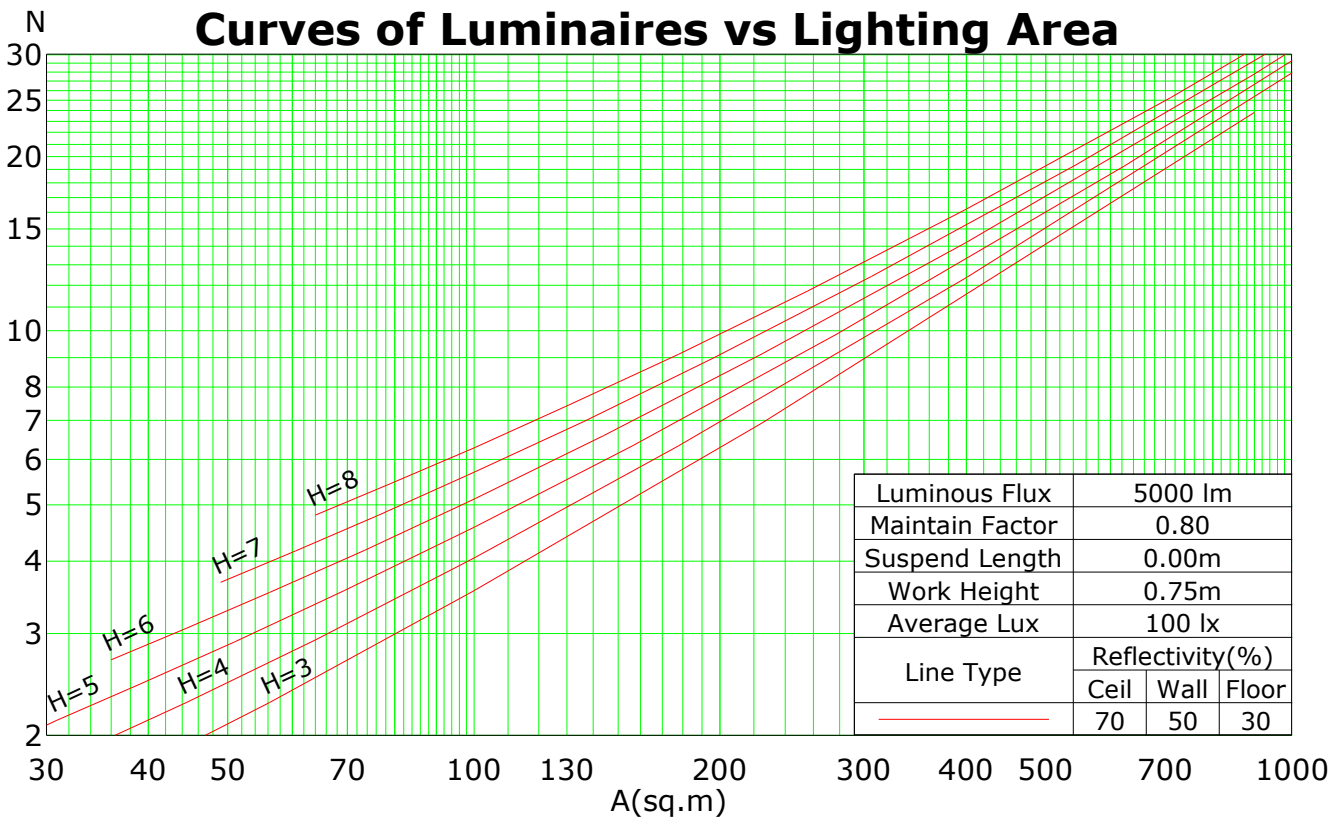
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 Distance: 8.598 m [K=1.0000]
 Humidity: 65
 Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.10	1.10	1.10	1.10	1.03	1.03	1.03	1.03	0.90	0.90	0.90	0.78	0.78	0.78	0.67	0.67	0.67	0.61
1	0.99	0.94	0.90	0.86	0.93	0.88	0.84	0.81	0.77	0.74	0.71	0.67	0.64	0.62	0.57	0.56	0.54	0.49
2	0.90	0.82	0.75	0.69	0.84	0.77	0.71	0.66	0.67	0.62	0.58	0.58	0.54	0.51	0.50	0.47	0.45	0.41
3	0.82	0.72	0.64	0.57	0.76	0.67	0.60	0.54	0.59	0.53	0.49	0.51	0.47	0.43	0.44	0.40	0.38	0.34
4	0.75	0.63	0.55	0.48	0.69	0.59	0.52	0.46	0.52	0.46	0.41	0.45	0.40	0.37	0.39	0.35	0.32	0.29
5	0.68	0.56	0.48	0.41	0.64	0.53	0.45	0.39	0.46	0.40	0.35	0.40	0.35	0.31	0.35	0.31	0.28	0.25
6	0.63	0.50	0.42	0.36	0.59	0.47	0.40	0.34	0.42	0.35	0.31	0.36	0.31	0.27	0.32	0.27	0.24	0.22
7	0.58	0.45	0.37	0.31	0.54	0.43	0.35	0.30	0.38	0.32	0.27	0.33	0.28	0.24	0.29	0.25	0.22	0.19
8	0.54	0.41	0.33	0.27	0.50	0.39	0.31	0.26	0.34	0.28	0.24	0.30	0.25	0.22	0.26	0.22	0.19	0.17
9	0.50	0.38	0.30	0.24	0.47	0.36	0.28	0.23	0.32	0.26	0.21	0.28	0.23	0.19	0.24	0.20	0.17	0.15
10	0.47	0.34	0.27	0.22	0.44	0.33	0.26	0.21	0.29	0.23	0.19	0.26	0.21	0.17	0.23	0.19	0.16	0.14

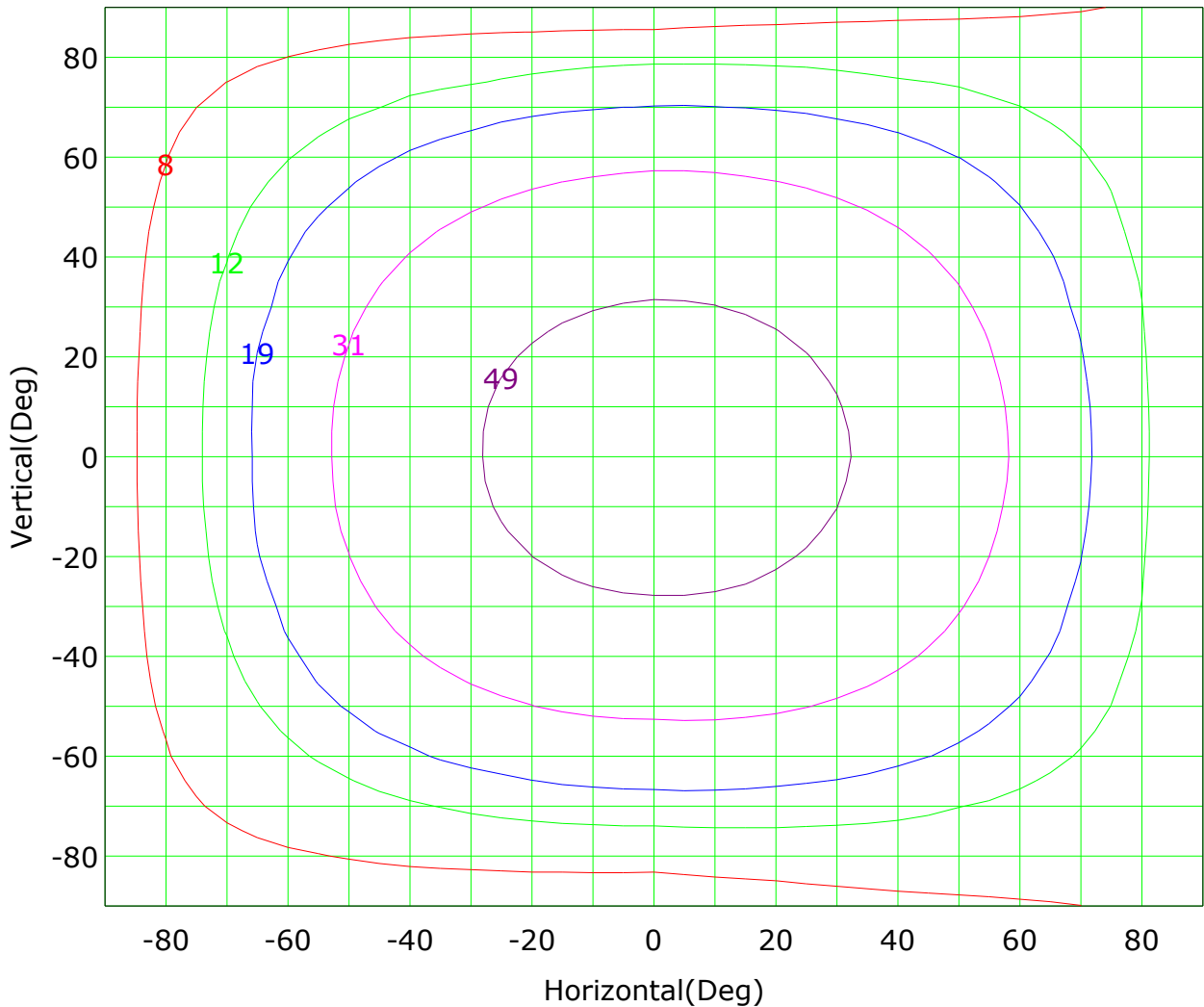
Spacing Criteria (0-180): 1.27
 Spacing Criteria (90-270): 1.26
 Spacing Criteria (Diagonal): 1.38



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 Test Device: GPM-1800B
 Distance: 8.598 m [K=1.0000]
 Humidity: 65
 Inspector:

Isocandela (rectangle)



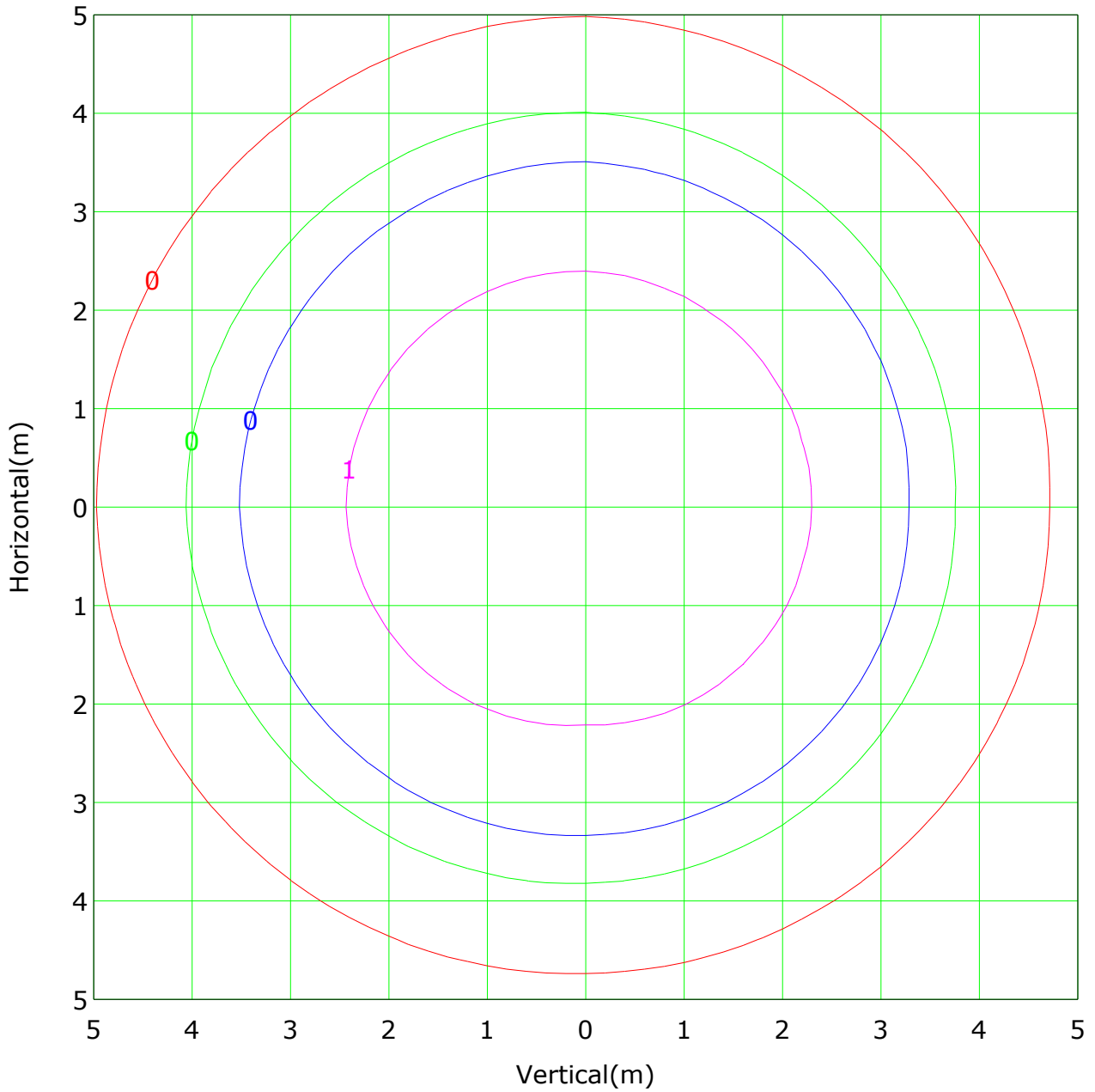
Imax (100%): 77 cd

— (10%):	8 cd	— (16%):	12 cd
— (25%):	19 cd	— (40%):	31 cd
— (63%):	49 cd	— (100%):	77 cd

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 Test Device: GPM-1800B
 Distance: 8.598 m [K=1.0000]
 Humidity: 65
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 0.6 lx

— (65%): 0.4 lx	— (75%): 0.4 lx
— (80%): 0.5 lx	— (90%): 0.5 lx
— (100%): 0.6 lx	

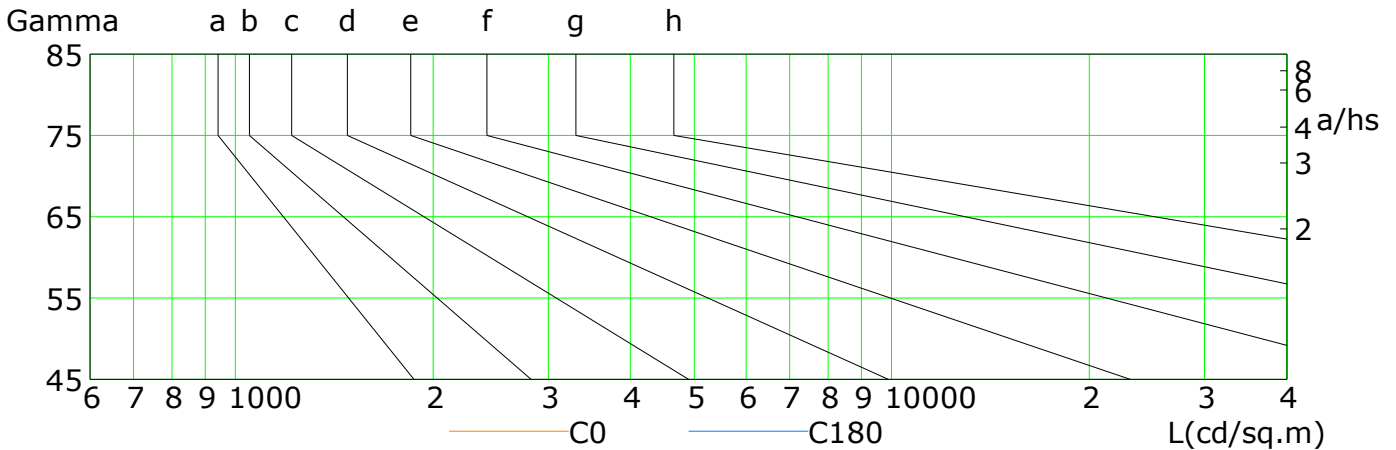
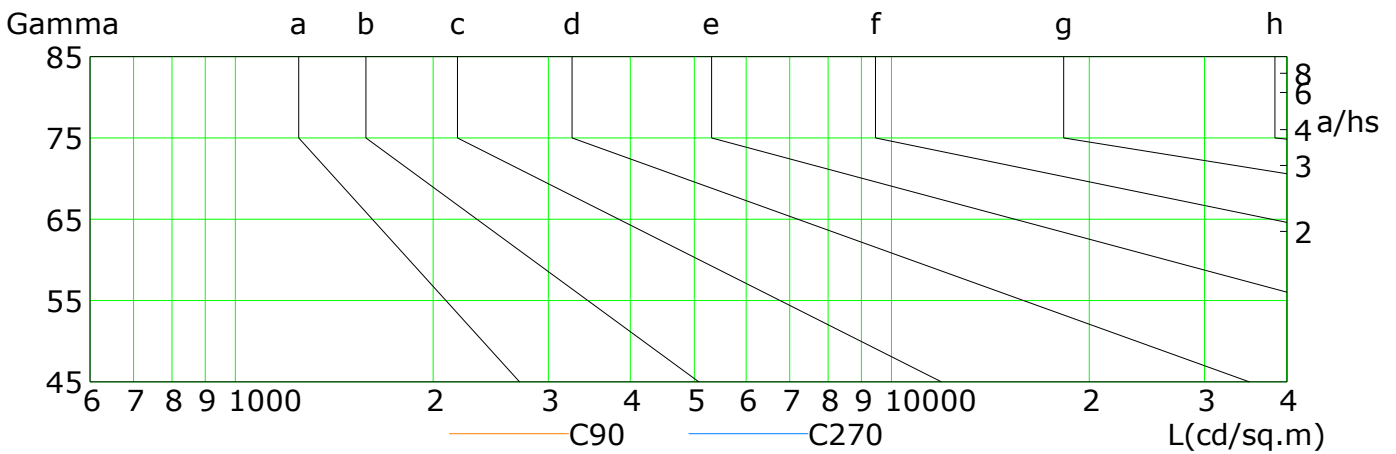
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 Test Lab: Inventfine instrument
 Test Type: TYPE C
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.598 m [K=1.0000]
 Humidity: 65
 Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h

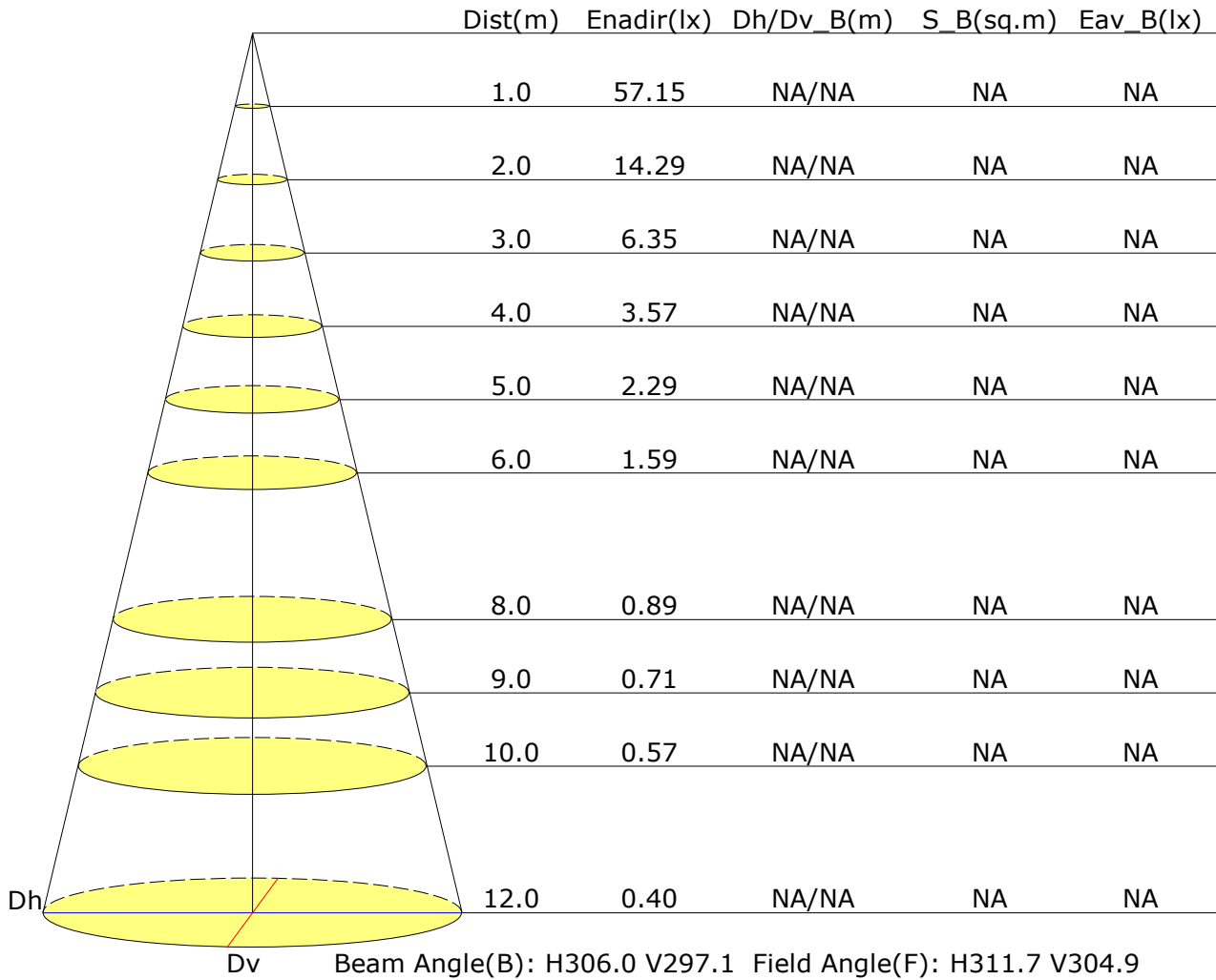


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	37	33	29	25	20	16	12	9	8
C90	37	33	29	25	21	16	12	9	7
C180	41	37	34	30	25	21	16	13	10
C270	40	36	33	29	25	20	15	11	8

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 Test Device: GPM-1800B
 Distance: 8.598 m [K=1.0000]
 Humidity: 65
 Inspector:

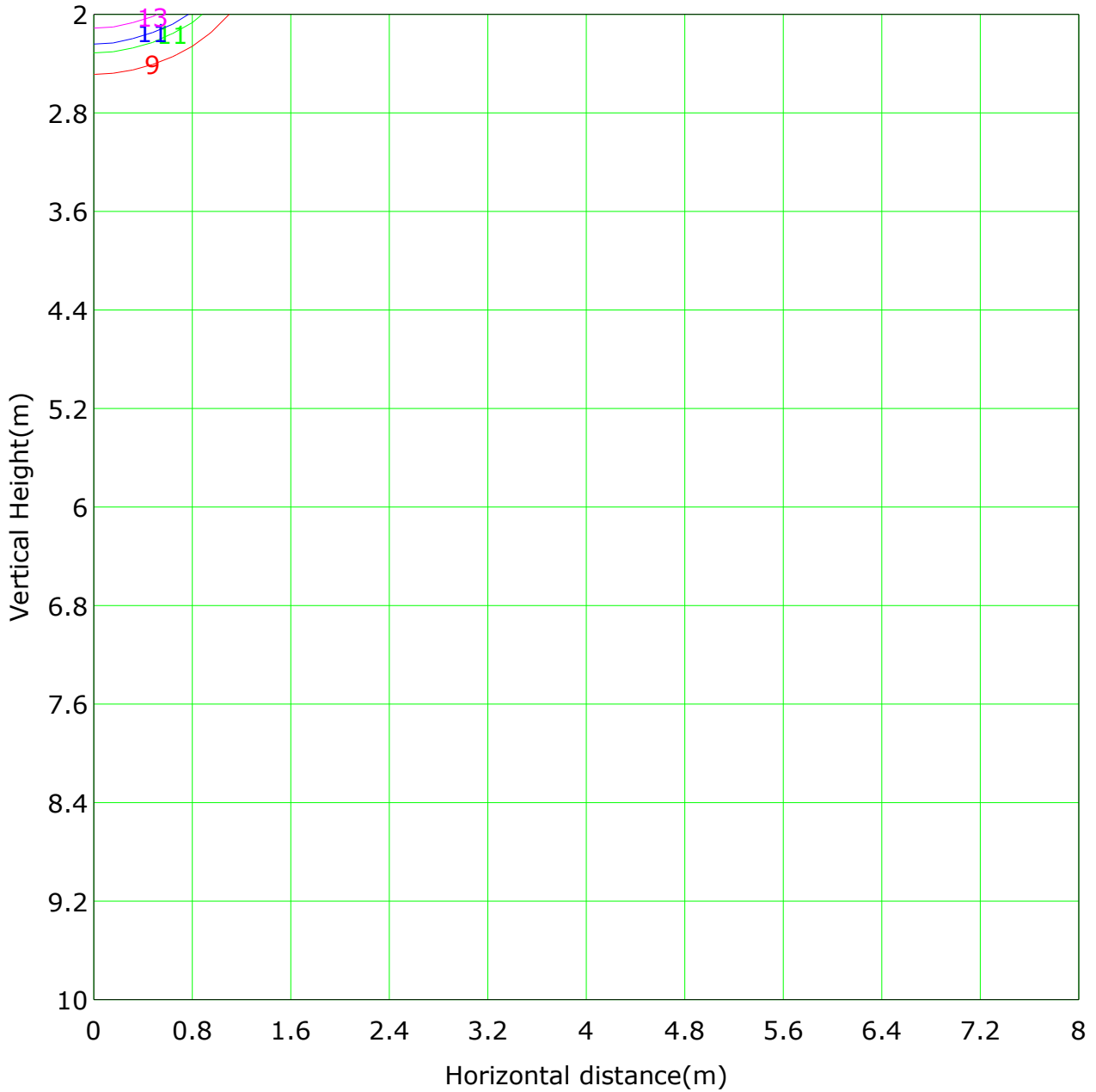
Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0
 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 [K=1.0000]
 Humidity: 65
 Inspector:

Vertical IsoLux Plot

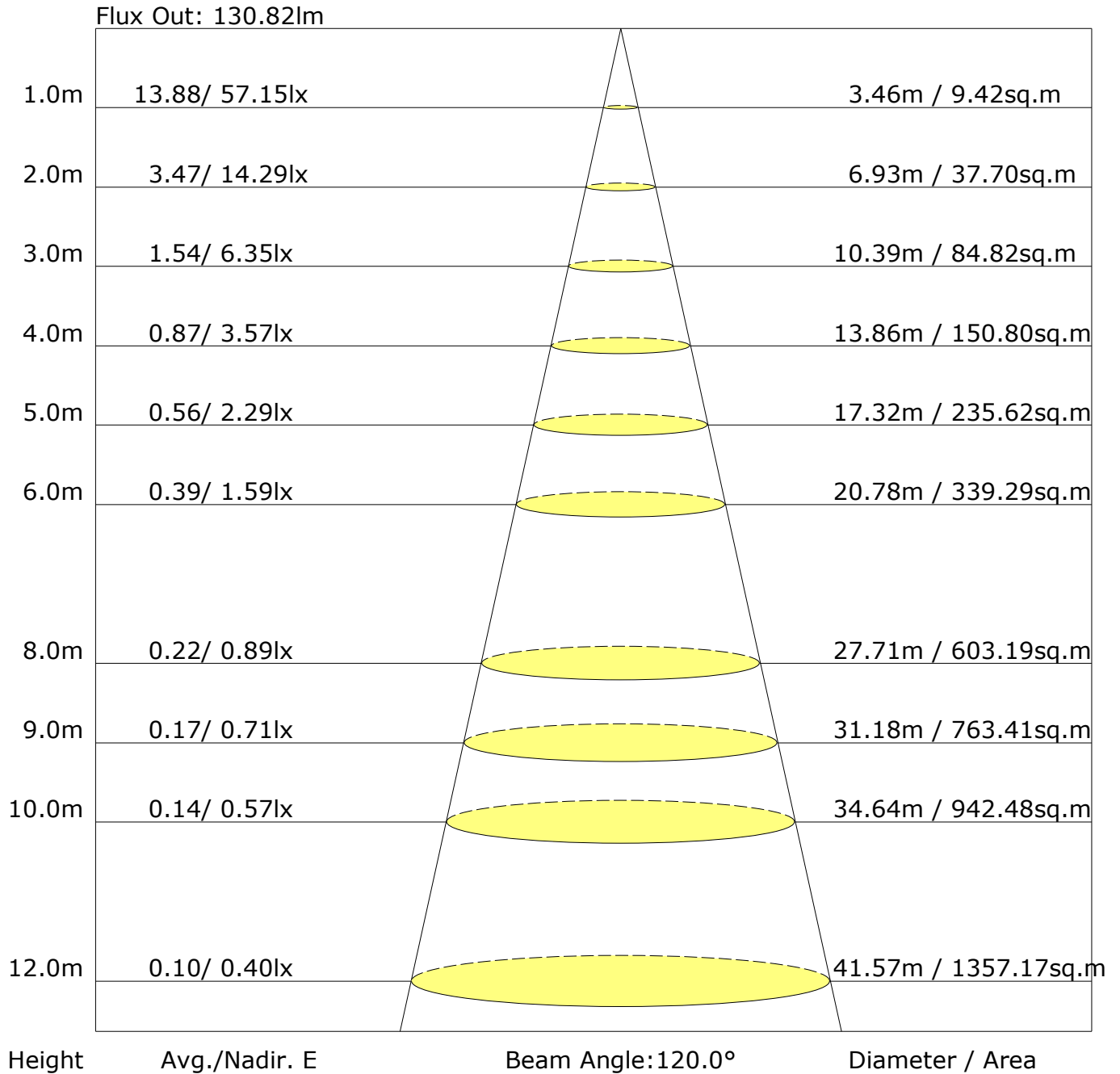


Lowest(m): 2.0m	Highest(m): 10.0m	Max Lux: 14.3 lx
— (65%): 9.3 lx	— (75%): 10.7 lx	
— (80%): 11.4 lx	— (90%): 12.9 lx	
— (100%): 14.3 lx		

C Plane (°):0.0-360.0: 90.0
 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 [K=1.0000]
 Humidity: 65
 Inspector:

The Average Illuminance Effective Figure



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 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	-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 288lm ($8\log(F/F_0) = -4.3$).

C Plane (°):0.0-360.0: 90.0
 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 [K=1.0000]
 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	57.1	0.1	0.1	0.02	0.02
1.0-2.0	57.1	0.2	0.2	0.06	0.08
2.0-3.0	57.1	0.3	0.5	0.09	0.17
3.0-4.0	57.1	0.4	0.9	0.13	0.30
4.0-5.0	57.1	0.5	1.4	0.17	0.47
5.0-6.0	57.0	0.6	2.0	0.21	0.68
6.0-7.0	56.9	0.7	2.7	0.24	0.93
7.0-8.0	56.8	0.8	3.5	0.28	1.21
8.0-9.0	56.7	0.9	4.4	0.32	1.53
9.0-10.0	56.5	1.0	5.4	0.35	1.88
10.0-11.0	56.3	1.1	6.5	0.39	2.27
11.0-12.0	56.1	1.2	7.8	0.43	2.70
12.0-13.0	55.9	1.3	9.1	0.46	3.16
13.0-14.0	55.6	1.4	10.5	0.49	3.65
14.0-15.0	55.4	1.5	12.0	0.53	4.18
15.0-16.0	55.0	1.6	13.7	0.56	4.74
16.0-17.0	54.6	1.7	15.4	0.59	5.33
17.0-18.0	54.3	1.8	17.2	0.62	5.95
18.0-19.0	54.0	1.9	19.0	0.65	6.60
19.0-20.0	53.7	2.0	21.0	0.68	7.28
20.0-21.0	53.4	2.0	23.0	0.71	7.99
21.0-22.0	53.0	2.1	25.2	0.74	8.73
22.0-23.0	52.6	2.2	27.4	0.77	9.49
23.0-24.0	52.2	2.3	29.7	0.79	10.28
24.0-25.0	51.7	2.4	32.0	0.82	11.10
25.0-26.0	51.2	2.4	34.4	0.84	11.94
26.0-27.0	50.7	2.5	36.9	0.86	12.80
27.0-28.0	50.2	2.5	39.5	0.88	13.68
28.0-29.0	49.6	2.6	42.0	0.90	14.58
29.0-30.0	49.0	2.6	44.7	0.92	15.50
30.0-31.0	48.4	2.7	47.4	0.93	16.43
31.0-32.0	47.8	2.7	50.1	0.95	17.38
32.0-33.0	47.2	2.8	52.9	0.96	18.35
33.0-34.0	46.6	2.8	55.7	0.98	19.32
34.0-35.0	45.9	2.9	58.6	0.99	20.31
35.0-36.0	45.2	2.9	61.5	1.00	21.31

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 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.598 m [K=1.0000]
 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	44.5	2.9	64.4	1.01	22.32
37.0-38.0	43.9	2.9	67.3	1.02	23.33
38.0-39.0	43.2	2.9	70.2	1.02	24.35
39.0-40.0	42.5	3.0	73.2	1.03	25.38
40.0-41.0	41.8	3.0	76.2	1.03	26.42
41.0-42.0	41.1	3.0	79.2	1.04	27.45
42.0-43.0	40.4	3.0	82.2	1.04	28.49
43.0-44.0	39.7	3.0	85.2	1.04	29.53
44.0-45.0	39.0	3.0	88.2	1.04	30.57
45.0-46.0	38.2	3.0	91.1	1.04	31.60
46.0-47.0	37.5	3.0	94.1	1.03	32.64
47.0-48.0	36.7	3.0	97.1	1.03	33.67
48.0-49.0	36.0	3.0	100.0	1.02	34.69
49.0-50.0	35.2	2.9	103.0	1.02	35.71
50.0-51.0	34.5	2.9	105.9	1.01	36.72
51.0-52.0	33.8	2.9	108.8	1.00	37.73
52.0-53.0	33.0	2.9	111.7	1.00	38.72
53.0-54.0	32.2	2.8	114.5	0.99	39.71
54.0-55.0	31.5	2.8	117.3	0.98	40.68
55.0-56.0	30.7	2.8	120.1	0.96	41.64
56.0-57.0	30.0	2.7	122.8	0.95	42.59
57.0-58.0	29.2	2.7	125.5	0.94	43.53
58.0-59.0	28.4	2.7	128.2	0.92	44.45
59.0-60.0	27.6	2.6	130.8	0.90	45.36
60.0-61.0	26.7	2.5	133.4	0.88	46.24
61.0-62.0	25.8	2.5	135.9	0.86	47.10
62.0-63.0	25.0	2.4	138.3	0.84	47.95
63.0-64.0	24.1	2.4	140.6	0.82	48.77
64.0-65.0	23.2	2.3	142.9	0.80	49.56
65.0-66.0	22.4	2.2	145.2	0.77	50.34
66.0-67.0	21.5	2.2	147.3	0.75	51.09
67.0-68.0	20.5	2.1	149.4	0.72	51.80
68.0-69.0	19.5	2.0	151.4	0.69	52.49
69.0-70.0	18.6	1.9	153.3	0.66	53.15
70.0-71.0	17.6	1.8	155.1	0.63	53.79
71.0-72.0	16.7	1.7	156.9	0.60	54.39

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 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.598 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	15.7	1.6	158.5	0.57	54.95
73.0-74.0	14.7	1.5	160.0	0.54	55.49
74.0-75.0	13.9	1.5	161.5	0.51	56.00
75.0-76.0	13.1	1.4	162.9	0.48	56.48
76.0-77.0	12.3	1.3	164.2	0.46	56.94
77.0-78.0	11.7	1.3	165.5	0.44	57.37
78.0-79.0	11.3	1.2	166.7	0.42	57.79
79.0-80.0	10.9	1.2	167.9	0.41	58.20
80.0-81.0	10.5	1.1	169.0	0.39	58.59
81.0-82.0	10.0	1.1	170.1	0.38	58.97
82.0-83.0	9.5	1.0	171.1	0.36	59.33
83.0-84.0	9.0	1.0	172.1	0.34	59.67
84.0-85.0	8.5	0.9	173.0	0.32	59.99
85.0-86.0	8.1	0.9	173.9	0.31	60.30
86.0-87.0	7.7	0.8	174.8	0.29	60.59
87.0-88.0	7.3	0.8	175.6	0.28	60.87
88.0-89.0	7.0	0.8	176.3	0.27	61.14
89.0-90.0	6.7	0.7	177.1	0.26	61.39
90.0-91.0	6.6	0.7	177.8	0.25	61.64
91.0-92.0	6.5	0.7	178.5	0.25	61.89
92.0-93.0	6.5	0.7	179.2	0.25	62.14
93.0-94.0	6.7	0.7	179.9	0.26	62.39
94.0-95.0	7.2	0.8	180.7	0.27	62.66
95.0-96.0	7.4	0.8	181.5	0.28	62.94
96.0-97.0	7.4	0.8	182.3	0.28	63.22
97.0-98.0	7.5	0.8	183.2	0.28	63.51
98.0-99.0	7.8	0.8	184.0	0.29	63.80
99.0-100.0	8.3	0.9	184.9	0.31	64.11
100.0-101.0	8.7	0.9	185.9	0.33	64.44
101.0-102.0	8.8	0.9	186.8	0.33	64.77
102.0-103.0	8.8	0.9	187.7	0.33	65.10
103.0-104.0	8.7	0.9	188.7	0.32	65.42
104.0-105.0	8.4	0.9	189.6	0.31	65.73
105.0-106.0	8.2	0.9	190.4	0.30	66.03
106.0-107.0	7.8	0.8	191.3	0.29	66.32
107.0-108.0	7.8	0.8	192.1	0.28	66.60

C Plane (°):0.0-360.0: 90.0
 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 [K=1.0000]
 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	8.0	0.8	192.9	0.29	66.89
109.0-110.0	8.0	0.8	193.7	0.29	67.17
110.0-111.0	8.2	0.8	194.6	0.29	67.46
111.0-112.0	8.3	0.9	195.4	0.30	67.76
112.0-113.0	8.2	0.8	196.3	0.29	68.05
113.0-114.0	8.2	0.8	197.1	0.29	68.33
114.0-115.0	8.4	0.8	197.9	0.29	68.63
115.0-116.0	9.3	0.9	198.8	0.32	68.95
116.0-117.0	10.6	1.0	199.9	0.36	69.31
117.0-118.0	11.8	1.2	201.0	0.40	69.71
118.0-119.0	13.2	1.3	202.3	0.44	70.15
119.0-120.0	14.3	1.4	203.7	0.47	70.62
120.0-121.0	15.6	1.5	205.1	0.51	71.13
121.0-122.0	16.9	1.6	206.7	0.55	71.68
122.0-123.0	17.7	1.6	208.4	0.57	72.25
123.0-124.0	18.6	1.7	210.1	0.59	72.84
124.0-125.0	19.6	1.8	211.8	0.61	73.45
125.0-126.0	21.4	1.9	213.7	0.66	74.11
126.0-127.0	24.4	2.1	215.9	0.75	74.86
127.0-128.0	27.3	2.4	218.3	0.82	75.68
128.0-129.0	30.4	2.6	220.9	0.90	76.58
129.0-130.0	34.1	2.9	223.8	1.00	77.59
130.0-131.0	37.6	3.1	226.9	1.09	78.67
131.0-132.0	38.9	3.2	230.1	1.11	79.78
132.0-133.0	37.9	3.1	233.2	1.06	80.84
133.0-134.0	37.5	3.0	236.1	1.03	81.88
134.0-135.0	39.7	3.1	239.2	1.08	82.95
135.0-136.0	40.8	3.1	242.4	1.09	84.04
136.0-137.0	41.1	3.1	245.5	1.08	85.11
137.0-138.0	42.4	3.1	248.6	1.09	86.20
138.0-139.0	43.8	3.2	251.8	1.10	87.31
139.0-140.0	45.1	3.2	255.0	1.11	88.42
140.0-141.0	45.1	3.1	258.2	1.09	89.51
141.0-142.0	45.9	3.1	261.3	1.09	90.60
142.0-143.0	46.6	3.1	264.4	1.08	91.68
143.0-144.0	44.6	2.9	267.3	1.01	92.69

C Plane (°):0.0-360.0: 90.0
 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 [K=1.0000]
 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	42.5	2.7	270.0	0.94	93.62
145.0-146.0	41.9	2.6	272.6	0.90	94.53
146.0-147.0	43.1	2.6	275.2	0.90	95.43
147.0-148.0	45.3	2.7	277.9	0.93	96.36
148.0-149.0	43.7	2.5	280.4	0.87	97.23
149.0-150.0	35.7	2.0	282.4	0.69	97.91
150.0-151.0	27.7	1.5	283.9	0.52	98.43
151.0-152.0	24.7	1.3	285.2	0.45	98.88
152.0-153.0	22.6	1.1	286.3	0.40	99.28
153.0-154.0	17.4	0.9	287.2	0.29	99.57
154.0-155.0	11.9	0.6	287.7	0.19	99.77
155.0-156.0	7.2	0.3	288.1	0.11	99.88
156.0-157.0	2.4	0.1	288.2	0.04	99.92
157.0-158.0	0.5	0.0	288.2	0.01	99.92
158.0-159.0	0.5	0.0	288.2	0.01	99.93
159.0-160.0	0.5	0.0	288.2	0.01	99.94
160.0-161.0	0.5	0.0	288.3	0.01	99.94
161.0-162.0	0.5	0.0	288.3	0.01	99.95
162.0-163.0	0.5	0.0	288.3	0.01	99.95
163.0-164.0	0.5	0.0	288.3	0.01	99.96
164.0-165.0	0.5	0.0	288.3	0.00	99.96
165.0-166.0	0.5	0.0	288.3	0.00	99.97
166.0-167.0	0.5	0.0	288.3	0.00	99.97
167.0-168.0	0.5	0.0	288.3	0.00	99.98
168.0-169.0	0.5	0.0	288.4	0.00	99.98
169.0-170.0	0.5	0.0	288.4	0.00	99.98
170.0-171.0	0.5	0.0	288.4	0.00	99.99
171.0-172.0	0.5	0.0	288.4	0.00	99.99
172.0-173.0	0.5	0.0	288.4	0.00	99.99
173.0-174.0	0.5	0.0	288.4	0.00	99.99
174.0-175.0	0.5	0.0	288.4	0.00	100.00
175.0-176.0	0.5	0.0	288.4	0.00	100.00
176.0-177.0	0.5	0.0	288.4	0.00	100.00
177.0-178.0	0.5	0.0	288.4	0.00	100.00
178.0-179.0	0.5	0.0	288.4	0.00	100.00
179.0-180.0	0.5	0.0	288.4	0.00	100.00

C Plane (°):0.0-360.0: 90.0
 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 [K=1.0000]
 Humidity: 65
 Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 88.16 lm

%lum = 30.6%

%lamp = 30.6%

cone flux(120°): 130.82 lm

%lum = 45.4%

%lamp = 45.4%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	57.2	57.2	57.2	57.2	57.2					
G1.0	57.1	57.2	57.2	57.0	57.1					
G2.0	57.0	57.1	57.2	57.1	57.0					
G3.0	57.0	57.1	57.2	57.0	57.0					
G4.0	56.9	57.1	57.3	57.0	56.9					
G5.0	56.8	57.1	57.2	57.1	56.8					
G6.0	56.6	57.0	57.2	57.0	56.6					
G7.0	56.4	56.9	57.1	57.1	56.4					
G8.0	56.2	56.6	57.0	56.9	56.2					
G9.0	56.0	56.8	56.8	56.9	56.0					
G10.0	55.8	56.4	56.7	56.7	55.8					
G11.0	55.6	56.2	56.4	56.4	55.6					
G12.0	55.3	56.2	56.3	56.3	55.3					
G13.0	55.3	55.4	56.0	56.2	55.3					
G14.0	55.2	55.1	55.9	56.0	55.2					
G15.0	54.7	54.8	55.6	55.8	54.7					
G16.0	54.3	54.2	55.3	55.3	54.3					
G17.0	54.0	53.8	55.1	55.0	54.0					
G18.0	53.8	53.5	54.8	54.7	53.8					
G19.0	53.4	52.9	54.5	54.6	53.4					
G20.0	53.0	52.6	54.2	54.3	53.0					
G21.0	52.6	52.1	53.9	54.2	52.6					
G22.0	52.1	51.6	53.6	54.0	52.1					
G23.0	51.6	51.2	53.3	53.4	51.6					
G24.0	51.2	50.8	52.8	52.9	51.2					
G25.0	50.5	50.4	52.5	52.4	50.5					
G26.0	50.0	49.8	52.0	51.9	50.0					
G27.0	49.5	49.2	51.6	51.4	49.5					
G28.0	48.9	48.6	51.2	51.0	48.9					
G29.0	48.3	48.1	50.7	50.3	48.3					
G30.0	47.6	47.5	50.2	49.6	47.6					
G31.0	47.0	46.8	49.7	49.0	47.0					
G32.0	46.3	46.2	49.1	48.5	46.3					
G33.0	45.7	45.4	48.4	48.0	45.7					
G34.0	45.2	44.7	47.8	47.3	45.2					
G35.0	44.4	44.0	47.2	46.6	44.4					
G36.0	43.7	43.2	46.5	46.0	43.7					

C Plane (°):0.0-360.0: 90.0
 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 [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	43.1	42.5	45.9	45.4	43.1					
G38.0	42.3	41.8	45.2	44.7	42.3					
G39.0	41.6	41.1	44.6	44.1	41.6					
G40.0	40.9	40.4	44.0	43.3	40.9					
G41.0	40.2	39.6	43.3	42.7	40.2					
G42.0	39.4	38.8	42.7	42.1	39.4					
G43.0	38.6	38.1	42.1	41.3	38.6					
G44.0	37.8	37.4	41.5	40.6	37.8					
G45.0	37.0	36.6	40.8	39.9	37.0					
G46.0	36.2	35.9	40.0	39.2	36.2					
G47.0	35.5	35.2	39.3	38.5	35.5					
G48.0	34.7	34.4	38.6	37.8	34.7					
G49.0	33.9	33.7	37.7	37.1	33.9					
G50.0	33.1	33.0	37.1	36.3	33.1					
G51.0	32.4	32.2	36.4	35.6	32.4					
G52.0	31.6	31.5	35.6	34.8	31.6					
G53.0	30.7	30.7	34.9	34.0	30.7					
G54.0	30.0	29.9	34.2	33.3	30.0					
G55.0	29.2	29.2	33.5	32.7	29.2					
G56.0	28.4	28.4	32.7	31.9	28.4					
G57.0	27.6	27.6	31.9	31.2	27.6					
G58.0	26.9	26.9	31.2	30.5	26.9					
G59.0	26.1	26.1	30.4	29.6	26.1					
G60.0	24.9	25.3	29.6	28.9	24.9					
G61.0	23.7	24.5	28.7	28.2	23.7					
G62.0	22.8	23.7	27.9	27.4	22.8					
G63.0	21.8	22.9	26.7	26.6	21.8					
G64.0	20.8	22.1	25.8	25.9	20.8					
G65.0	20.1	21.2	24.8	25.1	20.1					
G66.0	19.6	20.0	24.0	24.3	19.6					
G67.0	18.6	18.8	23.5	23.1	18.6					
G68.0	17.5	17.8	22.7	21.6	17.5					
G69.0	16.4	16.9	22.2	20.6	16.4					
G70.0	15.5	15.9	21.4	19.6	15.5					
G71.0	14.7	15.0	20.2	18.6	14.7					
G72.0	13.9	14.1	19.1	17.7	13.9					
G73.0	13.1	13.2	17.8	16.6	13.1					

C Plane (°):0.0-360.0: 90.0
 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 [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	12.3	12.3	16.8	15.7	12.3					
G75.0	11.6	11.5	15.9	14.9	11.6					
G76.0	10.9	10.8	15.1	13.9	10.9					
G77.0	10.3	10.2	14.4	13.0	10.3					
G78.0	10.0	9.9	13.8	12.2	10.0					
G79.0	9.7	9.5	13.4	11.7	9.7					
G80.0	9.4	9.1	13.0	11.3	9.4					
G81.0	9.1	8.6	12.7	10.7	9.1					
G82.0	8.8	8.2	12.3	9.9	8.8					
G83.0	8.4	7.7	11.8	9.1	8.4					
G84.0	8.0	7.4	11.1	8.5	8.0					
G85.0	7.6	7.1	10.5	8.0	7.6					
G86.0	7.3	6.8	10.0	7.5	7.3					
G87.0	7.0	6.6	9.5	7.0	7.0					
G88.0	6.8	6.4	9.0	6.5	6.8					
G89.0	6.6	6.3	8.5	6.0	6.6					
G90.0	6.4	6.2	8.2	5.7	6.4					
G91.0	6.4	6.1	7.9	5.5	6.4					
G92.0	6.6	6.2	7.5	5.5	6.6					
G93.0	7.0	6.2	7.3	5.8	7.0					
G94.0	8.2	6.3	6.9	6.2	8.2					
G95.0	10.2	6.6	6.6	6.6	10.2					
G96.0	8.9	6.9	6.3	7.1	8.9					
G97.0	8.8	7.5	6.1	7.4	8.8					
G98.0	8.8	8.3	6.1	7.5	8.8					
G99.0	8.7	9.7	6.1	7.3	8.7					
G100.0	8.5	12.6	6.2	7.4	8.5					
G101.0	9.3	11.7	6.7	7.6	9.3					
G102.0	9.1	11.9	7.3	7.1	9.1					
G103.0	7.6	13.9	7.0	7.0	7.6					
G104.0	7.5	11.2	6.8	8.3	7.5					
G105.0	8.0	9.4	7.1	9.2	8.0					
G106.0	8.2	9.3	7.7	7.0	8.2					
G107.0	7.4	9.5	7.3	6.5	7.4					
G108.0	7.3	10.7	7.1	6.5	7.3					
G109.0	6.8	11.9	7.0	6.7	6.8					
G110.0	6.8	11.5	6.7	7.0	6.8					

C Plane (°):0.0-360.0: 90.0
 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 [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	6.9	11.8	6.8	7.8	6.9					
G112.0	7.5	11.4	6.6	7.9	7.5					
G113.0	8.3	10.2	7.2	6.8	8.3					
G114.0	9.0	9.9	8.1	5.8	9.0					
G115.0	10.5	10.1	8.0	5.8	10.5					
G116.0	14.9	11.0	8.2	6.0	14.9					
G117.0	17.2	11.7	9.8	6.1	17.2					
G118.0	18.1	12.9	12.8	6.1	18.1					
G119.0	19.4	14.2	15.1	6.7	19.4					
G120.0	22.3	14.3	15.9	6.8	22.3					
G121.0	26.6	15.3	16.8	6.7	26.6					
G122.0	31.8	13.9	17.1	7.1	31.8					
G123.0	32.9	12.8	18.6	7.7	32.9					
G124.0	35.3	13.1	20.4	7.8	35.3					
G125.0	36.1	13.6	22.4	7.8	36.1					
G126.0	42.0	15.4	25.1	8.9	42.0					
G127.0	45.2	18.4	30.3	9.6	45.2					
G128.0	46.2	26.4	32.2	10.2	46.2					
G129.0	47.1	31.5	38.6	10.6	47.1					
G130.0	50.7	39.4	41.9	13.1	50.7					
G131.0	56.8	35.8	44.6	18.3	56.8					
G132.0	57.8	30.0	47.1	20.7	57.8					
G133.0	56.0	27.8	46.8	17.3	56.0					
G134.0	56.9	30.1	44.4	20.5	56.9					
G135.0	56.5	33.8	53.5	21.6	56.5					
G136.0	56.7	35.1	45.3	23.8	56.7					
G137.0	57.3	35.8	46.2	28.7	57.3					
G138.0	55.0	39.2	47.2	30.3	55.0					
G139.0	55.1	40.3	51.9	31.6	55.1					
G140.0	56.3	37.9	58.4	29.2	56.3					
G141.0	65.4	32.3	54.6	26.8	65.4					
G142.0	77.2	33.5	47.4	29.6	77.2					
G143.0	77.4	32.9	43.0	31.8	77.4					
G144.0	68.0	33.4	40.8	29.6	68.0					
G145.0	63.0	36.5	40.9	27.7	63.0					
G146.0	65.4	35.6	39.0	27.1	65.4					
G147.0	69.5	38.3	39.2	30.7	69.5					

C Plane (°):0.0-360.0: 90.0
 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 [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	69.7	36.0	49.2	29.9	69.7					
G149.0	62.4	27.3	51.8	23.3	62.4					
G150.0	45.6	17.4	41.4	16.3	45.6					
G151.0	45.3	13.6	32.5	9.8	45.3					
G152.0	44.5	3.3	41.1	7.6	44.5					
G153.0	52.3	2.5	23.1	6.2	52.3					
G154.0	37.3	1.5	15.7	0.4	37.3					
G155.0	29.9	0.5	9.5	0.4	29.9					
G156.0	12.0	0.5	4.4	0.4	12.0					
G157.0	0.6	0.5	0.5	0.4	0.6					
G158.0	0.5	0.5	0.5	0.4	0.5					
G159.0	0.5	0.5	0.5	0.4	0.5					
G160.0	0.5	0.5	0.5	0.4	0.5					
G161.0	0.5	0.5	0.5	0.4	0.5					
G162.0	0.5	0.5	0.5	0.4	0.5					
G163.0	0.5	0.5	0.5	0.5	0.5					
G164.0	0.5	0.5	0.5	0.4	0.5					
G165.0	0.5	0.5	0.5	0.5	0.5					
G166.0	0.5	0.5	0.5	0.5	0.5					
G167.0	0.5	0.5	0.5	0.5	0.5					
G168.0	0.5	0.5	0.5	0.5	0.5					
G169.0	0.5	0.5	0.5	0.5	0.5					
G170.0	0.5	0.5	0.5	0.5	0.5					
G171.0	0.5	0.5	0.5	0.5	0.5					
G172.0	0.5	0.5	0.5	0.5	0.5					
G173.0	0.5	0.5	0.5	0.5	0.5					
G174.0	0.5	0.5	0.5	0.5	0.5					
G175.0	0.5	0.5	0.5	0.5	0.5					
G176.0	0.5	0.5	0.5	0.5	0.5					
G177.0	0.5	0.5	0.5	0.5	0.5					
G178.0	0.5	0.5	0.5	0.5	0.5					
G179.0	0.5	0.5	0.5	0.5	0.5					
G180.0	0.5	0.5	0.5	0.5	0.5					

C Plane (°):0.0-360.0: 90.0
 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 [K=1.0000]
 Humidity: 65
 Inspector: