

Report No.:

Test Time: 2025-07-18 18:39

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 0.0000 A
Power Factor: 0.0000

Luminaire Description: REFLEDSG/200W
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 0.00 V
Power: 0.00 W

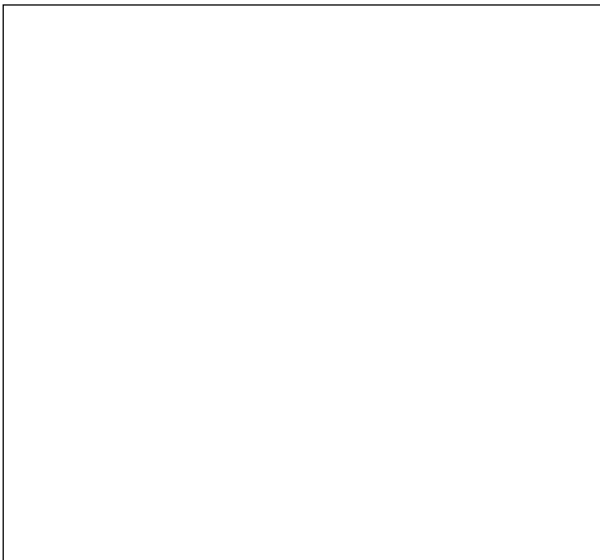
Photometric Results

CIE Class: Direct
Measurement Flux: 1904.3 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H75.1
Vertical Diffuse Angle(50%): V74.3
Luminous Efficacy (lm/w): 1904.31
Max. Intensity: 1070.85 cd
S/MH(C0/C180): 1.04

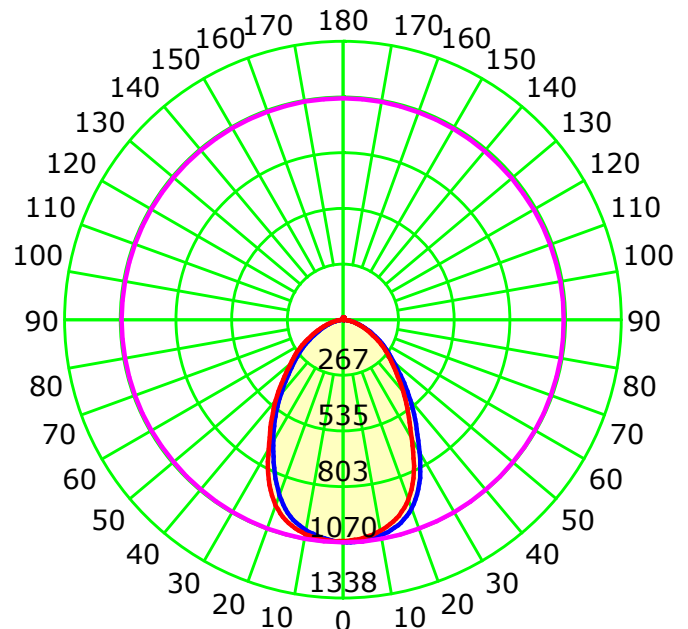
Total Rated Lamp Lumens: 1904.3 lm
Efficiency: 100%
Upward Ratio: 1%

C0r0 Intensity: 1068.32 cd
Pos of Max. Intensity: H0 V2
S/MH(C90/C270): 1.04

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

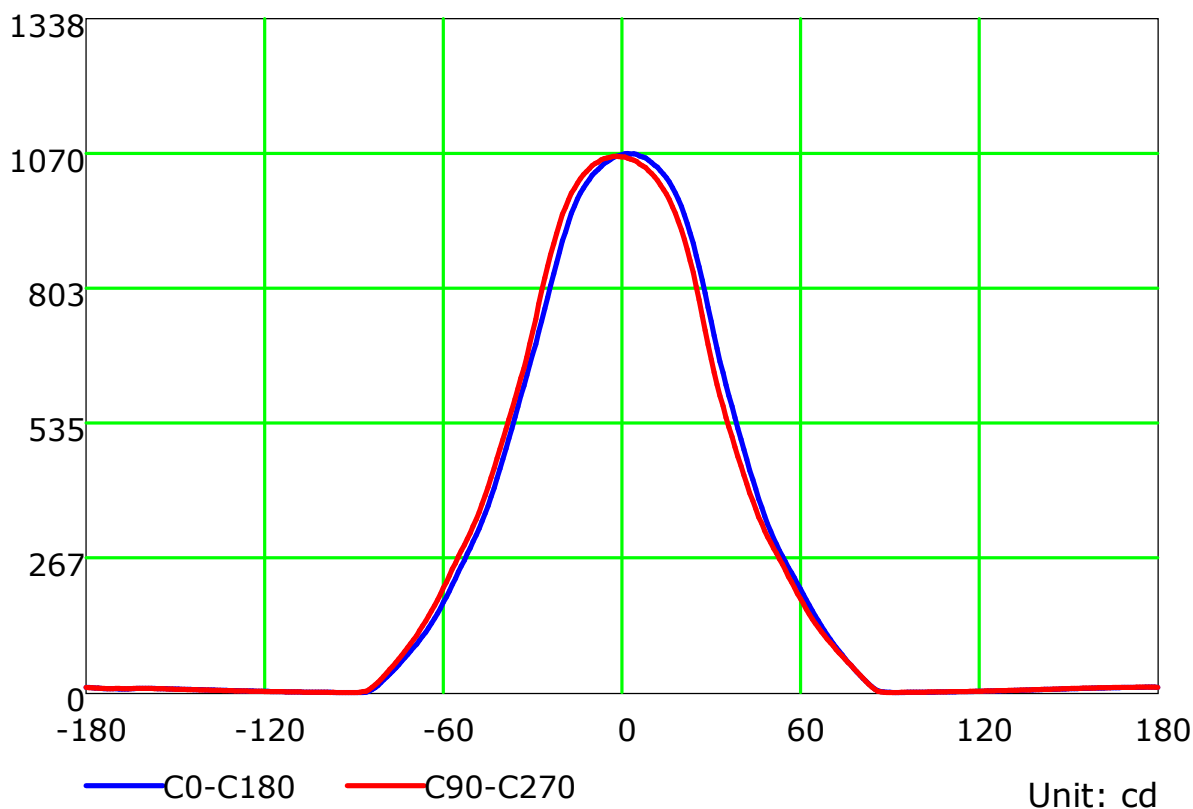
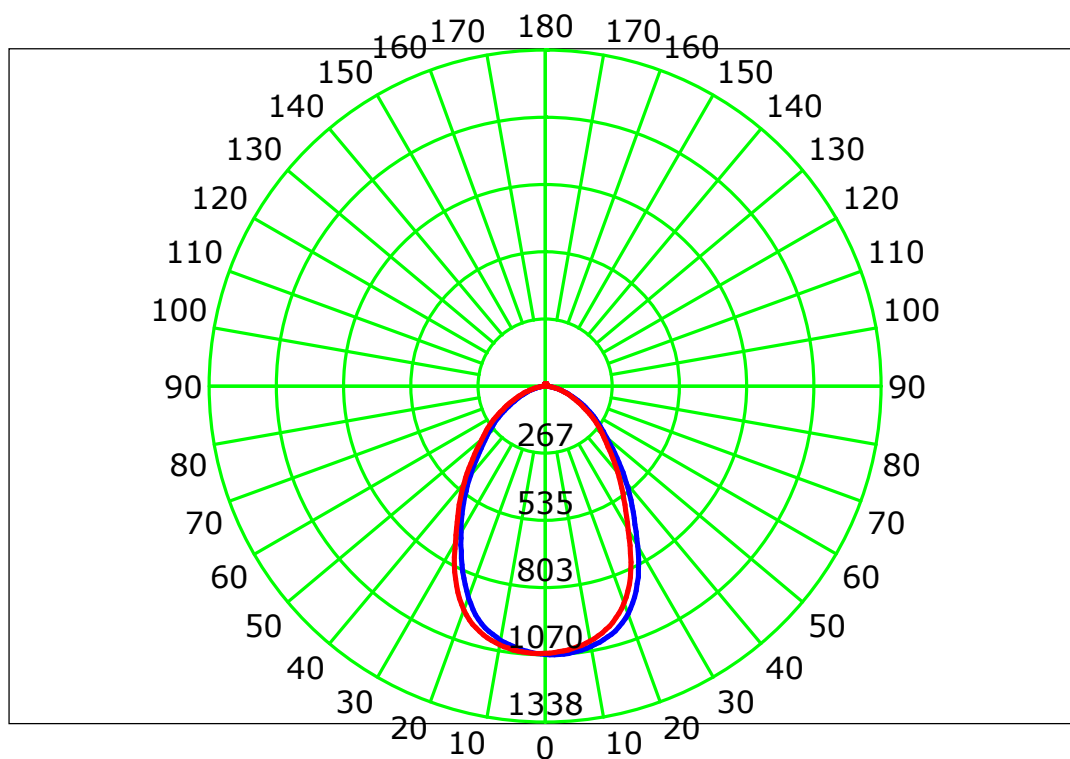
Average Diffuse Angle(50%): 74.6°

— C0-C180 — C90-C270 — G2

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.903 m [K=1.0000]
Humidity:
Inspector:

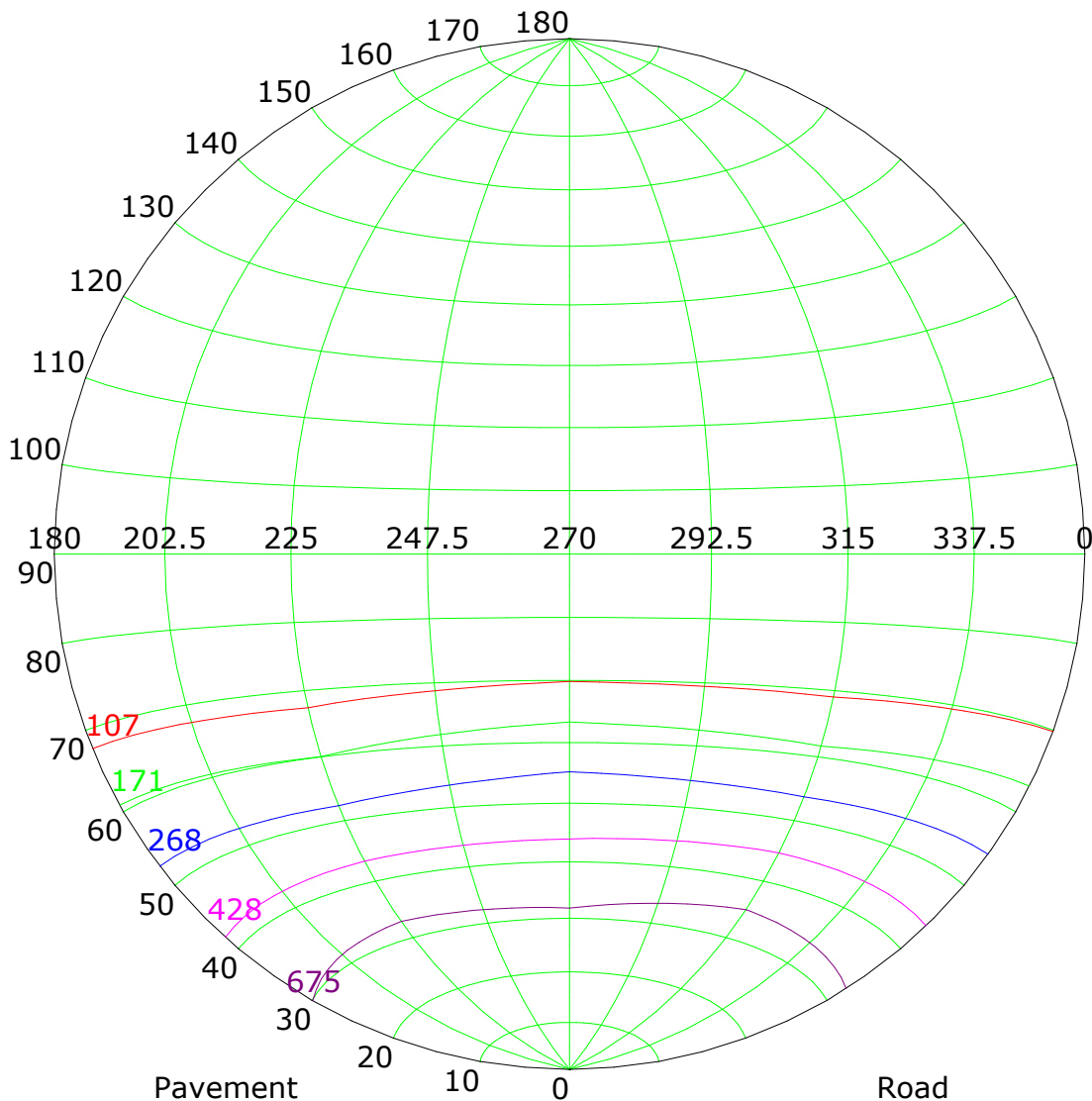
Luminous Intensity Distribution Curve



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Test Lab:
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Isocandela (sphere)



Imax (100%): 1071 cd

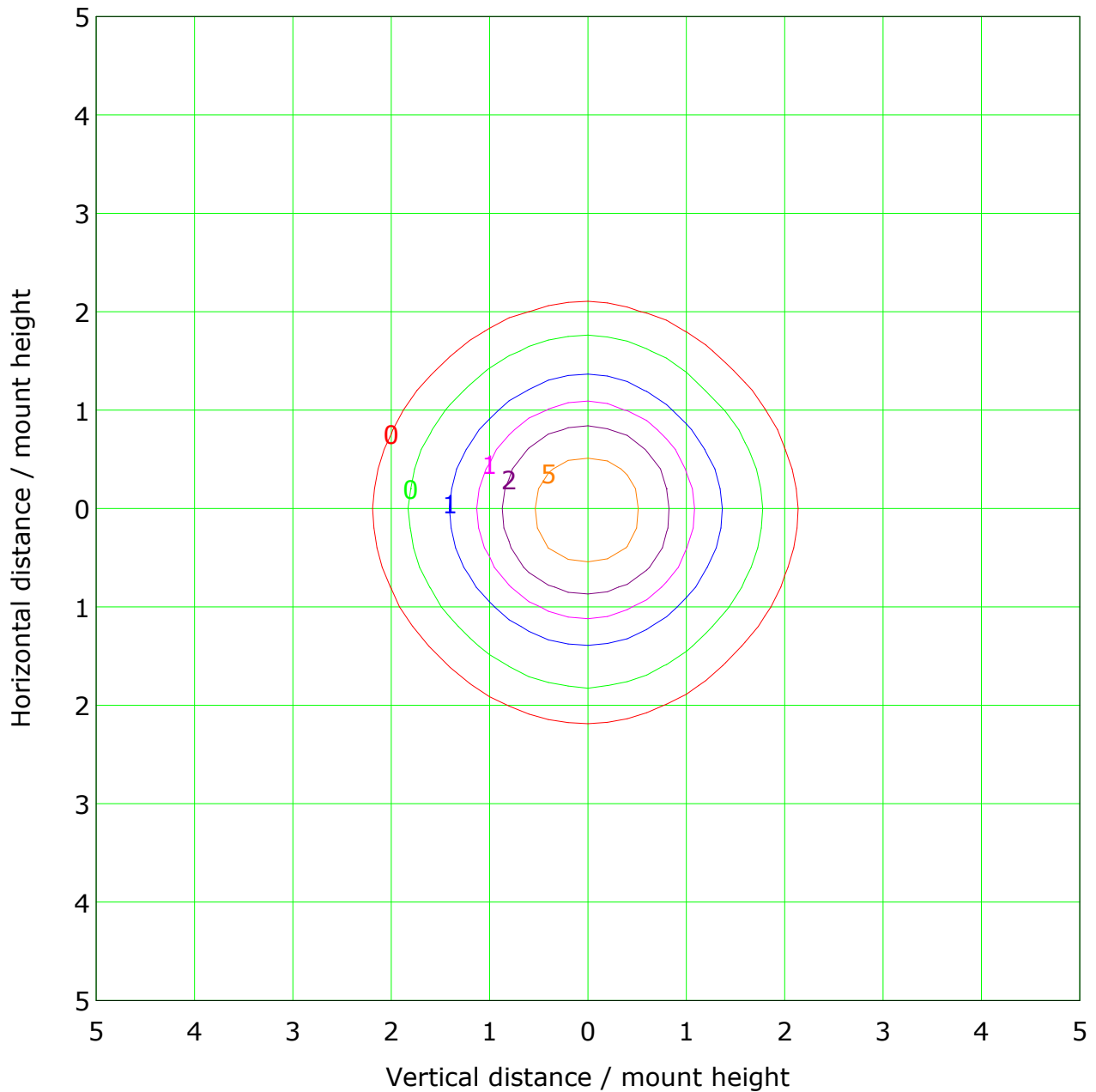
(10%): 107 cd
(25%): 268 cd
(63%): 675 cd

(16%): 171 cd
(40%): 428 cd
(100%): 1071 cd

CIE: narrow - short
CIE: Full-cut-off luminaire
Max.At90: 0.583 cd/klm

IES: Cut-off
Max.At80: 18.285 cd/klm
Max.80-90: 18.285 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 10.7 lx

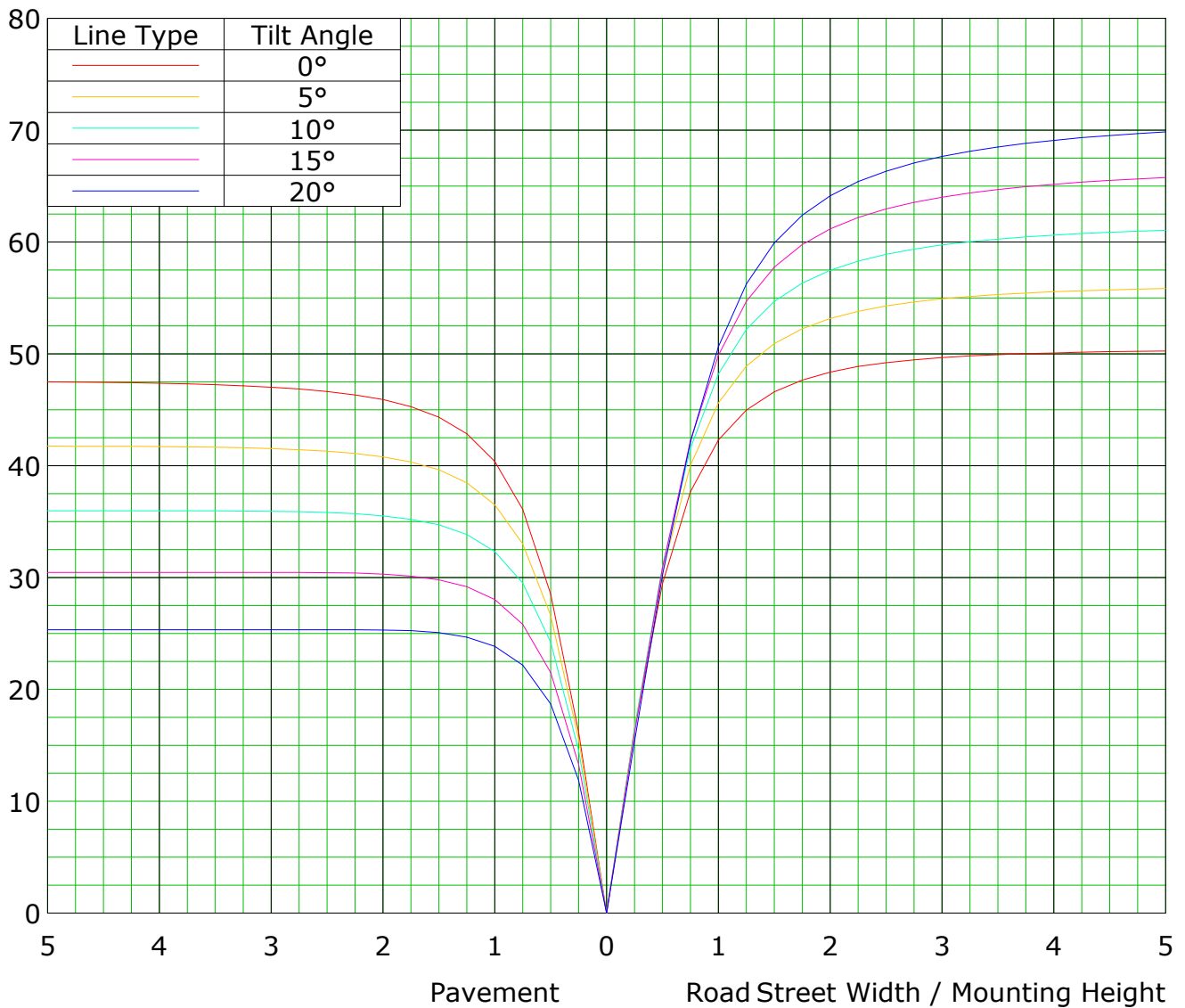
(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.5 lx	(10%): 1.1 lx
(20%): 2.1 lx	(50%): 5.3 lx
(100%): 10.7 lx	

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Test Type: TYPE C
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Humidity:
Inspector:

Roadway CU Curve

Efficiency(%)



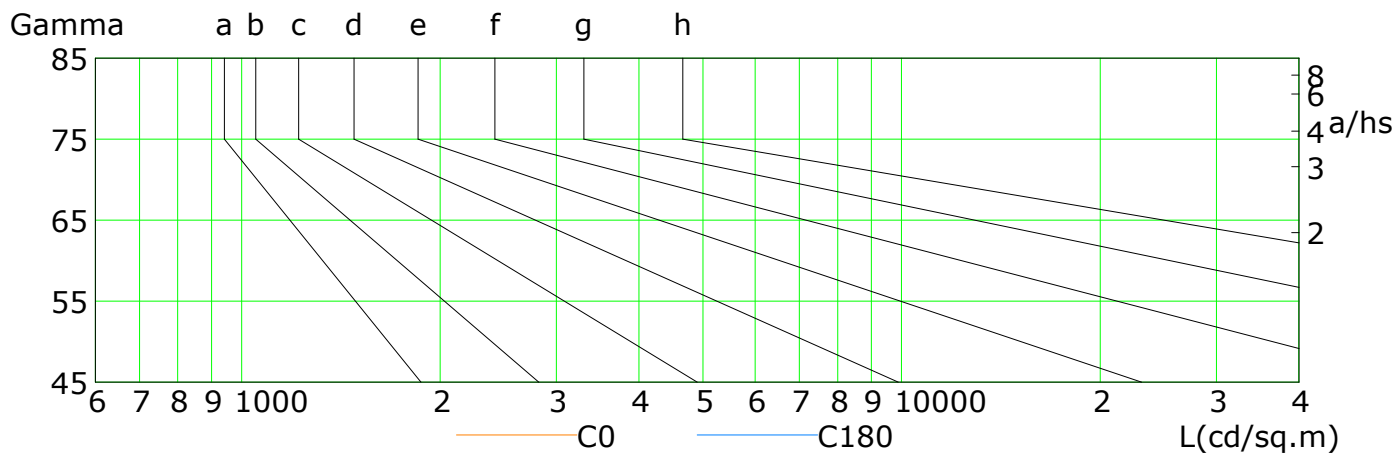
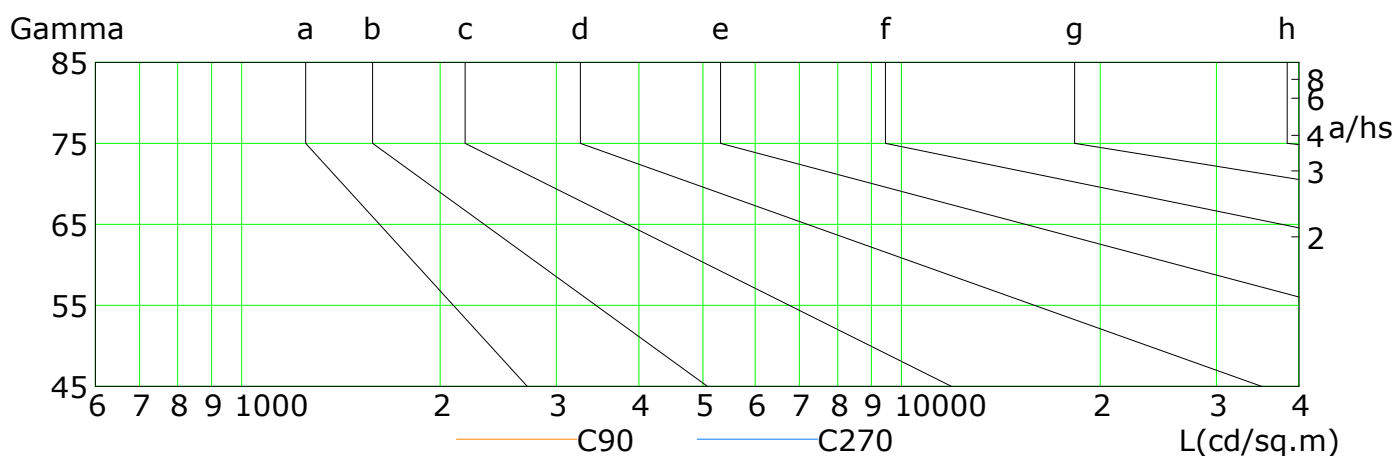
C Plane (°):0.0-360.0: 45.0
Test Lab:
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Humidity:
Inspector:

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

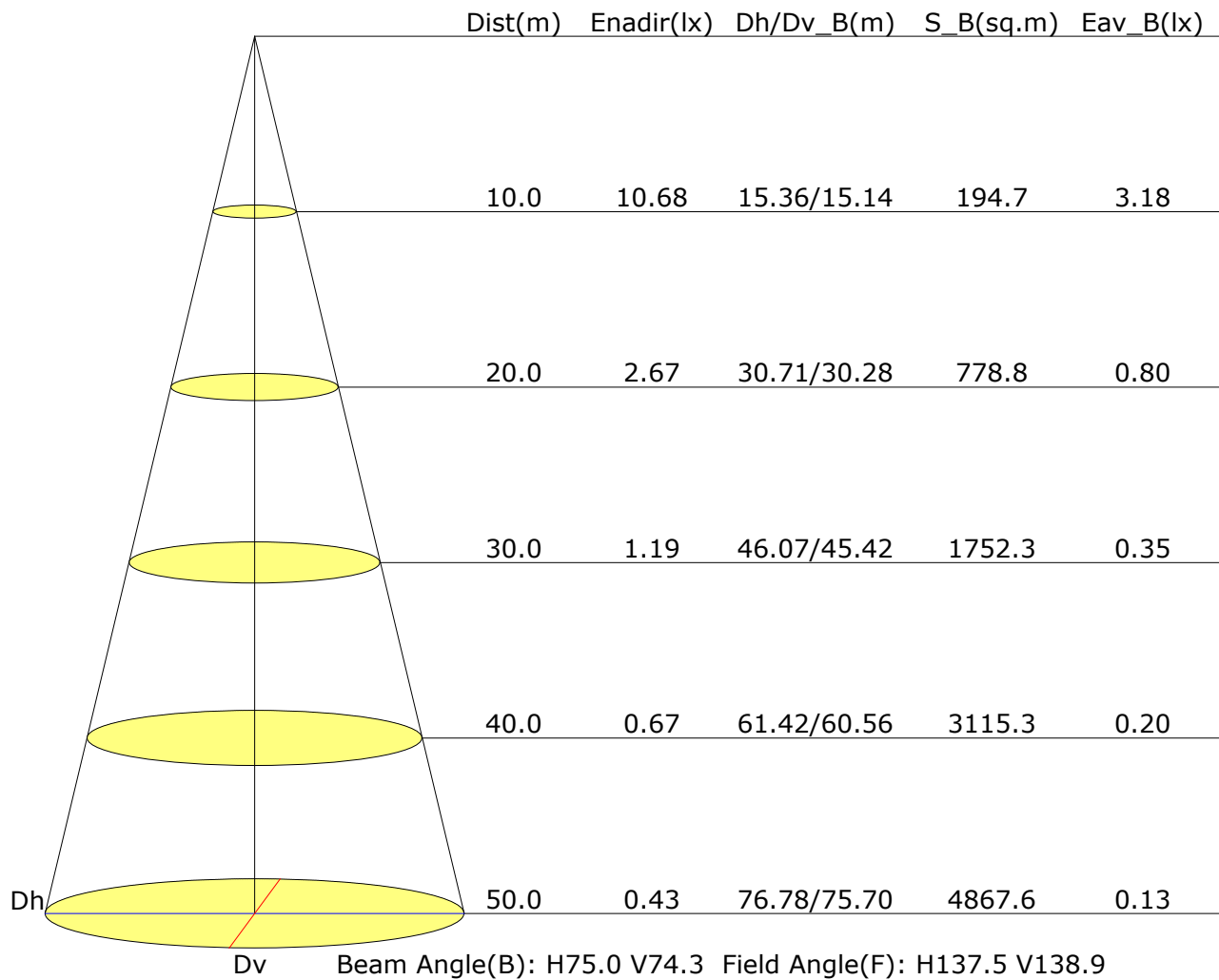


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	405	320	260	206	153	106	68	34	7
C90	365	298	243	187	138	99	66	35	6
C180	371	301	240	180	129	90	56	25	3
C270	409	331	271	208	153	105	67	33	6

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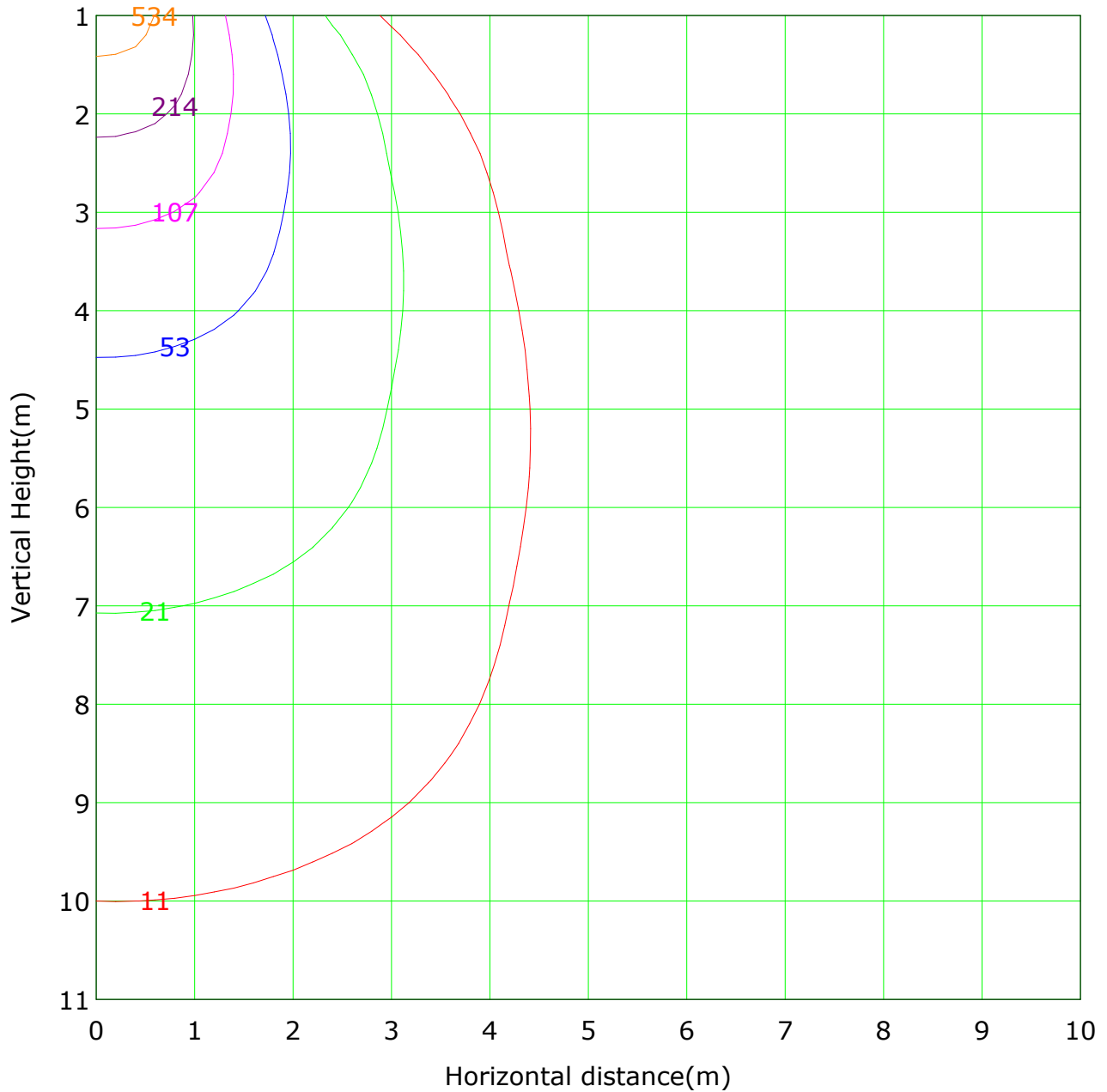
Illuminance at a Distance



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.903 m [K=1.0000]
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1068.3 lx
— (1%): 10.7 lx — (2%): 21.4 lx
— (5%): 53.4 lx — (10%): 106.8 lx
— (20%): 213.7 lx — (50%): 534.2 lx
— (100%):1068.3 lx

Area Flux Table

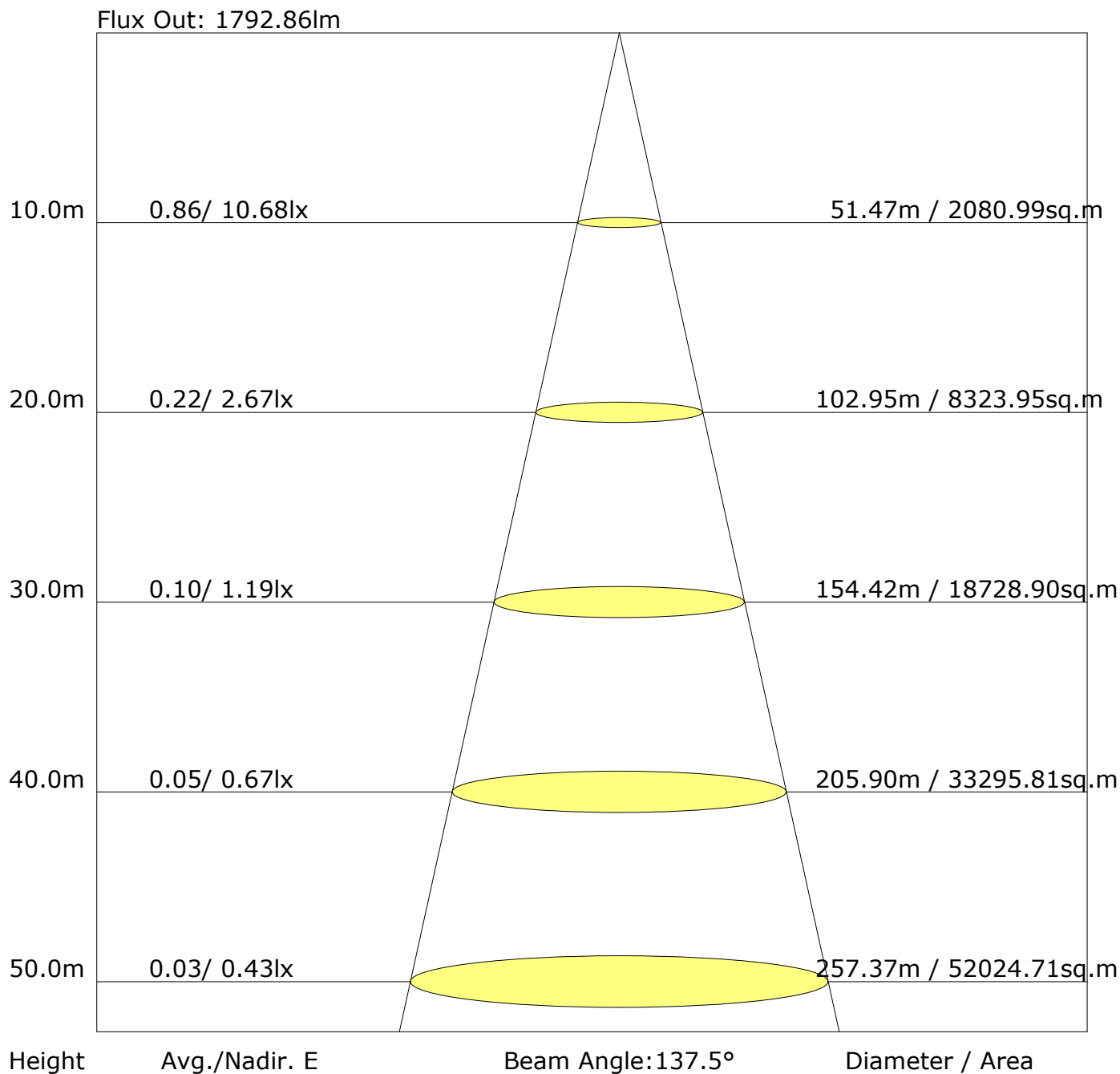
Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(E)	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	4.3	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.0	0.0
7.7	15.9	0.0	0.1	0.4	0.7	0.9	1.2	1.4	1.6	1.7	1.7	1.6	1.4	1.2	0.9	0.6	0.4	0.1	0.0	0.0
31.1	37.4	0.0	0.3	0.9	1.5	2.1	2.7	3.4	3.9	4.2	4.1	3.8	3.3	2.6	2.0	1.4	0.8	0.3	0.0	0.0
64.2	70.2	0.1	0.7	1.5	2.5	3.8	5.1	6.5	7.5	8.1	8.0	7.3	6.2	4.9	3.5	2.3	1.4	0.6	0.1	0.0
112.4	118.2	0.1	1.0	2.3	3.9	5.9	8.5	11.2	13.3	14.2	14.1	12.9	10.6	7.9	5.4	3.6	2.1	1.0	0.1	0.0
172.5	178.1	0.2	1.4	3.2	5.5	8.5	12.6	17.2	20.5	21.8	21.6	20.1	16.4	11.7	7.8	5.0	2.9	1.4	0.2	0.0
522.5	230.9	0.3	1.8	4.0	7.0	10.8	16.2	22.4	27.0	28.5	28.3	26.4	21.5	15.0	9.8	6.3	3.6	1.7	0.3	0.0
525.3	258.3	0.3	2.0	4.5	7.9	12.3	18.2	25.2	30.1	31.7	31.4	29.4	24.1	16.7	11.0	7.2	4.1	2.0	0.3	0.0
2256.6	261.8	0.3	2.0	4.6	8.0	12.4	18.5	25.6	30.4	32.0	31.9	29.8	24.5	17.0	11.2	7.2	4.2	2.0	0.3	0.0
235.8	241.1	0.3	1.9	4.1	7.2	11.2	17.0	23.5	28.0	29.7	29.5	27.5	22.7	15.9	10.3	6.5	3.8	1.8	0.3	0.0
187.1	192.5	0.3	1.6	3.4	5.8	9.0	13.5	18.6	22.1	23.7	23.6	21.8	18.0	12.7	8.3	5.3	3.2	1.5	0.3	0.0
1123.1	128.9	0.2	1.2	2.6	4.2	6.4	9.1	12.1	14.4	15.4	15.3	14.1	11.6	8.6	5.9	3.9	2.4	1.2	0.2	0.0
71.3	77.1	0.2	0.8	1.8	2.8	4.1	5.6	7.0	8.1	8.7	8.7	8.0	6.7	5.3	3.9	2.7	1.7	0.8	0.2	0.0
36.2	42.2	0.1	0.5	1.0	1.7	2.4	3.1	3.8	4.3	4.5	4.5	4.2	3.7	3.0	2.3	1.6	1.0	0.5	0.1	0.0
12.0	18.9	0.0	0.2	0.5	0.8	1.1	1.4	1.7	1.9	2.0	2.0	1.8	1.6	1.4	1.1	0.8	0.5	0.2	0.0	0.0
0.0	5.4	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0
0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
1789	1882	2.6	15.1	34.9	59.9	91.6	133.5	180.3	214.0	227.3	225.9	209.9	173.3	124.5	83.9	54.8	32.2	15.1	2.6	0.0

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Test Type: TYPE C
Temperature:
Operator:

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Test Device: GPM-1600L
Distance: 9.903 m [K=1.0000]
Humidity:
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	-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 1904Im ($8\log(F/F_0) = 2.2$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1065.3	1.0	1.0	0.05	0.05
1.0-2.0	1065.0	3.1	4.1	0.16	0.21
2.0-3.0	1064.0	5.1	9.2	0.27	0.48
3.0-4.0	1062.2	7.1	16.3	0.37	0.85
4.0-5.0	1060.2	9.1	25.4	0.48	1.33
5.0-6.0	1057.6	11.1	36.5	0.58	1.92
6.0-7.0	1054.3	13.1	49.6	0.69	2.60
7.0-8.0	1050.6	15.0	64.6	0.79	3.39
8.0-9.0	1046.3	17.0	81.6	0.89	4.29
9.0-10.0	1041.5	18.8	100.5	0.99	5.27
10.0-11.0	1035.6	20.7	121.1	1.09	6.36
11.0-12.0	1029.4	22.5	143.7	1.18	7.54
12.0-13.0	1022.8	24.3	167.9	1.27	8.82
13.0-14.0	1015.0	26.0	193.9	1.36	10.18
14.0-15.0	1006.7	27.6	221.6	1.45	11.63
15.0-16.0	997.5	29.2	250.8	1.54	13.17
16.0-17.0	987.0	30.7	281.5	1.61	14.78
17.0-18.0	975.5	32.2	313.7	1.69	16.47
18.0-19.0	962.7	33.5	347.2	1.76	18.23
19.0-20.0	949.0	34.7	381.9	1.82	20.06
20.0-21.0	933.9	35.9	417.8	1.88	21.94
21.0-22.0	917.4	36.9	454.7	1.94	23.88
22.0-23.0	900.0	37.8	492.4	1.98	25.86
23.0-24.0	881.3	38.5	531.0	2.02	27.88
24.0-25.0	860.8	39.1	570.1	2.06	29.94
25.0-26.0	839.7	39.6	609.8	2.08	32.02
26.0-27.0	817.0	40.0	649.7	2.10	34.12
27.0-28.0	793.2	40.2	689.9	2.11	36.23
28.0-29.0	768.9	40.2	730.1	2.11	38.34
29.0-30.0	743.9	40.2	770.3	2.11	40.45
30.0-31.0	719.4	40.0	810.3	2.10	42.55
31.0-32.0	695.0	39.8	850.2	2.09	44.64
32.0-33.0	670.2	39.5	889.7	2.07	46.72
33.0-34.0	646.4	39.1	928.8	2.05	48.77
34.0-35.0	622.5	38.7	967.4	2.03	50.80
35.0-36.0	598.3	38.1	1005.5	2.00	52.80

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Test Device: GPM-1600L
Distance: 9.903 m [K=1.0000]
Humidity:
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	574.7	37.5	1043.0	1.97	54.77
37.0-38.0	551.2	36.8	1079.8	1.93	56.70
38.0-39.0	528.2	36.1	1115.9	1.89	58.60
39.0-40.0	505.2	35.2	1151.1	1.85	60.45
40.0-41.0	483.0	34.4	1185.5	1.81	62.25
41.0-42.0	461.9	33.6	1219.1	1.76	64.02
42.0-43.0	440.5	32.6	1251.7	1.71	65.73
43.0-44.0	419.9	31.7	1283.4	1.66	67.40
44.0-45.0	400.5	30.8	1314.2	1.62	69.01
45.0-46.0	381.6	29.8	1344.0	1.57	70.58
46.0-47.0	363.7	28.9	1373.0	1.52	72.10
47.0-48.0	346.4	28.0	1401.0	1.47	73.57
48.0-49.0	329.9	27.1	1428.1	1.42	74.99
49.0-50.0	314.8	26.3	1454.3	1.38	76.37
50.0-51.0	300.0	25.4	1479.7	1.33	77.70
51.0-52.0	286.0	24.5	1504.3	1.29	78.99
52.0-53.0	272.8	23.7	1528.0	1.25	80.24
53.0-54.0	259.7	22.9	1550.9	1.20	81.44
54.0-55.0	247.3	22.1	1573.0	1.16	82.60
55.0-56.0	234.8	21.2	1594.2	1.11	83.71
56.0-57.0	222.7	20.4	1614.6	1.07	84.78
57.0-58.0	211.1	19.5	1634.1	1.03	85.81
58.0-59.0	199.6	18.7	1652.7	0.98	86.79
59.0-60.0	188.9	17.8	1670.6	0.94	87.73
60.0-61.0	178.3	17.0	1687.6	0.89	88.62
61.0-62.0	167.8	16.2	1703.8	0.85	89.47
62.0-63.0	158.1	15.4	1719.1	0.81	90.28
63.0-64.0	148.5	14.6	1733.7	0.77	91.04
64.0-65.0	139.2	13.8	1747.5	0.72	91.77
65.0-66.0	130.7	13.0	1760.5	0.69	92.45
66.0-67.0	122.2	12.3	1772.8	0.65	93.10
67.0-68.0	114.2	11.6	1784.4	0.61	93.70
68.0-69.0	106.4	10.9	1795.3	0.57	94.27
69.0-70.0	98.8	10.1	1805.4	0.53	94.81
70.0-71.0	91.8	9.5	1814.9	0.50	95.31
71.0-72.0	84.8	8.8	1823.7	0.46	95.77

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Test Lab:
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.903 m [K=1.0000]
Humidity:
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	77.9	8.1	1831.9	0.43	96.20
73.0-74.0	71.2	7.5	1839.4	0.39	96.59
74.0-75.0	64.3	6.8	1846.2	0.36	96.95
75.0-76.0	58.1	6.2	1852.3	0.32	97.27
76.0-77.0	51.9	5.5	1857.9	0.29	97.56
77.0-78.0	45.8	4.9	1862.8	0.26	97.82
78.0-79.0	39.9	4.3	1867.1	0.23	98.04
79.0-80.0	34.1	3.7	1870.7	0.19	98.24
80.0-81.0	28.4	3.1	1873.8	0.16	98.40
81.0-82.0	23.0	2.5	1876.3	0.13	98.53
82.0-83.0	17.9	1.9	1878.2	0.10	98.63
83.0-84.0	13.2	1.4	1879.7	0.08	98.71
84.0-85.0	9.0	1.0	1880.7	0.05	98.76
85.0-86.0	5.6	0.6	1881.3	0.03	98.79
86.0-87.0	3.5	0.4	1881.6	0.02	98.81
87.0-88.0	2.1	0.2	1881.9	0.01	98.82
88.0-89.0	1.3	0.1	1882.0	0.01	98.83
89.0-90.0	0.8	0.1	1882.1	0.00	98.83
90.0-91.0	0.6	0.1	1882.2	0.00	98.84
91.0-92.0	0.5	0.1	1882.2	0.00	98.84
92.0-93.0	0.5	0.1	1882.3	0.00	98.84
93.0-94.0	0.5	0.1	1882.3	0.00	98.85
94.0-95.0	0.6	0.1	1882.4	0.00	98.85
95.0-96.0	0.6	0.1	1882.5	0.00	98.85
96.0-97.0	0.7	0.1	1882.6	0.00	98.86
97.0-98.0	0.8	0.1	1882.6	0.00	98.86
98.0-99.0	0.8	0.1	1882.7	0.00	98.87
99.0-100.0	0.9	0.1	1882.8	0.01	98.87
100.0-101.0	1.0	0.1	1882.9	0.01	98.88
101.0-102.0	1.0	0.1	1883.0	0.01	98.88
102.0-103.0	1.1	0.1	1883.2	0.01	98.89
103.0-104.0	1.2	0.1	1883.3	0.01	98.90
104.0-105.0	1.2	0.1	1883.4	0.01	98.90
105.0-106.0	1.3	0.1	1883.6	0.01	98.91
106.0-107.0	1.4	0.1	1883.7	0.01	98.92
107.0-108.0	1.5	0.2	1883.9	0.01	98.93

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.903 m [K=1.0000]
Humidity:
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	1.6	0.2	1884.0	0.01	98.93
109.0-110.0	1.7	0.2	1884.2	0.01	98.94
110.0-111.0	1.7	0.2	1884.4	0.01	98.95
111.0-112.0	1.8	0.2	1884.6	0.01	98.96
112.0-113.0	1.9	0.2	1884.7	0.01	98.97
113.0-114.0	2.0	0.2	1884.9	0.01	98.98
114.0-115.0	2.1	0.2	1885.2	0.01	98.99
115.0-116.0	2.2	0.2	1885.4	0.01	99.01
116.0-117.0	2.3	0.2	1885.6	0.01	99.02
117.0-118.0	2.4	0.2	1885.8	0.01	99.03
118.0-119.0	2.5	0.2	1886.1	0.01	99.04
119.0-120.0	2.6	0.3	1886.3	0.01	99.06
120.0-121.0	2.8	0.3	1886.6	0.01	99.07
121.0-122.0	2.9	0.3	1886.9	0.01	99.08
122.0-123.0	3.0	0.3	1887.1	0.01	99.10
123.0-124.0	3.1	0.3	1887.4	0.01	99.11
124.0-125.0	3.3	0.3	1887.7	0.02	99.13
125.0-126.0	3.4	0.3	1888.0	0.02	99.14
126.0-127.0	3.6	0.3	1888.3	0.02	99.16
127.0-128.0	3.7	0.3	1888.7	0.02	99.18
128.0-129.0	3.8	0.3	1889.0	0.02	99.20
129.0-130.0	4.0	0.3	1889.3	0.02	99.21
130.0-131.0	4.1	0.3	1889.7	0.02	99.23
131.0-132.0	4.3	0.4	1890.0	0.02	99.25
132.0-133.0	4.4	0.4	1890.4	0.02	99.27
133.0-134.0	4.6	0.4	1890.7	0.02	99.29
134.0-135.0	4.7	0.4	1891.1	0.02	99.31
135.0-136.0	4.9	0.4	1891.5	0.02	99.33
136.0-137.0	5.0	0.4	1891.9	0.02	99.35
137.0-138.0	5.2	0.4	1892.3	0.02	99.37
138.0-139.0	5.4	0.4	1892.6	0.02	99.39
139.0-140.0	5.5	0.4	1893.0	0.02	99.41
140.0-141.0	5.7	0.4	1893.4	0.02	99.43
141.0-142.0	5.9	0.4	1893.8	0.02	99.45
142.0-143.0	6.0	0.4	1894.2	0.02	99.47
143.0-144.0	6.2	0.4	1894.7	0.02	99.49

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.903 m [K=1.0000]
Humidity:
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	6.4	0.4	1895.1	0.02	99.51
145.0-146.0	6.5	0.4	1895.5	0.02	99.54
146.0-147.0	6.7	0.4	1895.9	0.02	99.56
147.0-148.0	6.9	0.4	1896.3	0.02	99.58
148.0-149.0	7.1	0.4	1896.7	0.02	99.60
149.0-150.0	7.2	0.4	1897.1	0.02	99.62
150.0-151.0	7.4	0.4	1897.5	0.02	99.64
151.0-152.0	7.6	0.4	1897.9	0.02	99.66
152.0-153.0	7.7	0.4	1898.3	0.02	99.68
153.0-154.0	7.9	0.4	1898.7	0.02	99.70
154.0-155.0	8.0	0.4	1899.0	0.02	99.72
155.0-156.0	8.2	0.4	1899.4	0.02	99.74
156.0-157.0	8.3	0.4	1899.8	0.02	99.76
157.0-158.0	8.5	0.4	1900.1	0.02	99.78
158.0-159.0	8.6	0.3	1900.5	0.02	99.80
159.0-160.0	8.8	0.3	1900.8	0.02	99.82
160.0-161.0	8.9	0.3	1901.1	0.02	99.83
161.0-162.0	9.0	0.3	1901.5	0.02	99.85
162.0-163.0	9.0	0.3	1901.7	0.02	99.87
163.0-164.0	9.1	0.3	1902.0	0.01	99.88
164.0-165.0	9.1	0.3	1902.3	0.01	99.89
165.0-166.0	9.1	0.2	1902.5	0.01	99.91
166.0-167.0	9.2	0.2	1902.8	0.01	99.92
167.0-168.0	9.3	0.2	1903.0	0.01	99.93
168.0-169.0	9.3	0.2	1903.2	0.01	99.94
169.0-170.0	9.4	0.2	1903.4	0.01	99.95
170.0-171.0	9.5	0.2	1903.6	0.01	99.96
171.0-172.0	9.5	0.2	1903.7	0.01	99.97
172.0-173.0	9.5	0.1	1903.9	0.01	99.98
173.0-174.0	9.6	0.1	1904.0	0.01	99.98
174.0-175.0	9.7	0.1	1904.1	0.01	99.99
175.0-176.0	9.9	0.1	1904.2	0.00	99.99
176.0-177.0	10.0	0.1	1904.2	0.00	100.00
177.0-178.0	10.1	0.0	1904.3	0.00	100.00
178.0-179.0	10.3	0.0	1904.3	0.00	100.00
179.0-180.0	10.5	0.0	1904.3	0.00	100.00

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.903 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 1314.20 lm

%lum = 69.0%
%lamp = 69.0%

cone flux(120°): 1670.59 lm

%lum = 87.7%
%lamp = 87.7%

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	1068.3	1067.4	1064.0	1061.4	1068.3	1067.4	1064.0	1061.4	1068.3	
G1.0	1070.4	1066.5	1064.1	1059.7	1066.6	1066.8	1064.7	1063.7	1070.4	
G2.0	1070.8	1066.9	1061.6	1058.7	1065.7	1064.7	1065.6	1064.2	1070.8	
G3.0	1069.8	1066.0	1059.5	1055.8	1062.6	1063.0	1065.3	1063.3	1069.8	
G4.0	1070.3	1063.4	1058.1	1051.7	1058.4	1062.1	1063.4	1063.3	1070.3	
G5.0	1069.1	1061.4	1055.0	1047.9	1054.6	1059.4	1062.2	1063.1	1069.1	
G6.0	1066.2	1059.8	1050.4	1044.4	1051.2	1055.2	1061.2	1060.5	1066.2	
G7.0	1063.9	1056.7	1046.6	1039.0	1045.1	1051.7	1058.6	1058.7	1063.9	
G8.0	1062.0	1052.1	1043.1	1033.6	1039.4	1047.8	1054.2	1056.7	1062.0	
G9.0	1058.1	1047.5	1036.9	1028.7	1034.5	1041.8	1051.4	1053.5	1058.1	
G10.0	1052.9	1044.0	1030.9	1022.7	1027.9	1036.6	1047.1	1048.9	1052.9	
G11.0	1047.9	1037.3	1024.9	1014.2	1019.0	1031.1	1040.6	1044.2	1047.9	
G12.0	1043.7	1031.5	1017.7	1007.4	1011.2	1024.8	1035.0	1040.3	1043.7	
G13.0	1036.8	1025.9	1008.9	1000.4	1002.3	1016.0	1028.9	1033.4	1036.8	
G14.0	1029.7	1018.4	999.6	991.2	992.6	1008.0	1021.1	1027.0	1029.7	
G15.0	1023.1	1009.5	990.5	981.4	980.6	1001.0	1012.0	1021.5	1023.1	
G16.0	1014.9	1001.2	979.7	973.1	966.7	989.9	1002.0	1013.1	1014.9	
G17.0	1003.0	992.7	965.1	962.0	952.3	980.3	992.0	1004.2	1003.0	
G18.0	992.3	982.7	952.1	950.0	934.7	970.3	979.0	995.1	992.3	
G19.0	980.1	970.2	936.4	937.0	915.3	958.0	964.0	985.7	980.1	
G20.0	965.7	959.7	919.2	924.8	897.4	944.3	950.2	975.3	965.7	
G21.0	949.1	948.1	900.7	910.7	875.0	929.7	931.4	961.7	949.1	
G22.0	931.9	932.6	880.3	893.9	853.7	916.2	912.5	950.5	931.9	
G23.0	912.8	918.4	858.1	877.7	831.8	899.9	892.1	937.0	912.8	
G24.0	892.2	904.6	834.5	861.4	808.9	880.5	870.3	920.7	892.2	
G25.0	868.1	886.7	806.3	839.8	785.1	862.0	847.5	904.9	868.1	
G26.0	846.3	869.1	780.8	820.2	762.7	842.3	824.0	889.5	846.3	
G27.0	819.0	848.7	748.2	796.9	738.2	818.9	797.5	869.3	819.0	
G28.0	793.0	830.4	719.7	775.0	716.9	797.4	772.1	849.4	793.0	
G29.0	765.6	808.4	691.4	750.3	692.4	772.7	741.7	826.5	765.6	
G30.0	737.2	785.0	662.5	724.2	672.2	749.6	716.2	805.8	737.2	
G31.0	709.3	762.0	636.3	699.7	652.0	724.3	692.8	781.7	709.3	
G32.0	684.1	738.5	612.3	675.2	630.4	698.3	667.0	755.5	684.1	
G33.0	657.7	710.7	589.6	645.9	609.3	674.0	644.6	730.3	657.7	
G34.0	635.5	683.9	569.3	621.8	590.1	650.1	624.6	705.5	635.5	
G35.0	611.6	656.0	546.4	594.8	568.5	622.1	603.8	676.6	611.6	
G36.0	589.6	628.4	527.4	568.6	547.3	599.0	583.6	649.7	589.6	

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 9.903 m [K=1.0000]
 Humidity:
 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	568.7	601.3	508.3	544.6	524.6	572.3	561.5	620.7	568.7	
G38.0	546.5	571.7	487.8	517.9	505.4	548.8	543.2	595.2	546.5	
G39.0	524.8	545.5	468.9	493.7	485.1	525.1	523.8	568.1	524.8	
G40.0	503.5	516.0	450.3	468.7	463.8	501.2	502.9	541.5	503.5	
G41.0	483.0	491.1	432.2	447.2	445.1	479.6	484.4	517.4	483.0	
G42.0	463.0	466.5	414.8	425.5	426.1	457.1	465.5	492.5	463.0	
G43.0	441.4	441.5	396.3	402.9	406.6	434.6	446.0	467.7	441.4	
G44.0	423.3	418.5	380.9	382.8	388.8	414.2	427.1	445.5	423.3	
G45.0	404.6	397.7	365.2	363.8	371.2	392.7	408.7	422.6	404.6	
G46.0	385.2	375.8	349.1	344.3	356.1	374.0	392.1	402.4	385.2	
G47.0	368.1	356.8	335.9	326.1	340.5	355.5	375.1	382.2	368.1	
G48.0	351.0	336.7	321.7	308.4	325.7	336.6	358.6	362.7	351.0	
G49.0	335.0	320.5	309.3	292.4	313.1	318.8	344.2	343.9	335.0	
G50.0	320.3	303.7	298.0	276.7	300.7	303.0	331.2	327.0	320.3	
G51.0	306.3	286.1	286.7	261.1	287.4	285.7	316.9	308.9	306.3	
G52.0	294.4	271.6	276.7	247.9	276.2	271.3	305.4	293.3	294.4	
G53.0	282.3	257.6	265.7	234.7	263.1	255.1	293.8	276.1	282.3	
G54.0	270.6	243.2	254.5	220.9	251.4	242.2	282.1	262.1	270.6	
G55.0	260.1	229.9	243.4	208.7	239.9	228.9	270.6	248.4	260.1	
G56.0	248.5	217.4	230.7	196.8	226.6	215.6	257.4	234.2	248.5	
G57.0	238.3	205.8	220.0	186.1	214.9	204.1	245.5	221.8	238.3	
G58.0	228.1	194.4	208.9	175.5	201.8	191.7	232.2	208.7	228.1	
G59.0	216.7	183.5	197.1	165.4	190.2	181.6	219.6	197.9	216.7	
G60.0	205.8	173.9	186.6	156.5	179.7	171.6	208.4	187.3	205.8	
G61.0	195.2	164.4	176.2	147.3	167.5	160.8	195.3	175.7	195.2	
G62.0	183.9	154.7	165.4	138.2	157.6	151.4	184.4	166.5	183.9	
G63.0	173.7	146.1	156.1	130.4	147.9	142.8	173.4	156.9	173.7	
G64.0	162.4	137.1	146.2	121.9	137.6	133.2	162.6	147.0	162.4	
G65.0	152.6	129.4	137.7	114.5	128.9	125.4	152.6	138.7	152.6	
G66.0	143.5	121.7	129.8	107.3	120.1	117.2	142.3	130.1	143.5	
G67.0	132.7	113.7	121.0	99.7	112.3	109.3	132.8	122.0	132.7	
G68.0	123.7	106.8	113.8	94.3	104.8	102.2	123.4	114.7	123.7	
G69.0	114.8	99.8	106.7	86.7	96.6	94.4	113.7	106.6	114.8	
G70.0	105.7	93.8	99.2	80.1	90.1	87.8	105.5	99.5	105.7	
G71.0	97.7	86.9	93.0	74.0	83.0	81.5	97.9	93.5	97.7	
G72.0	90.2	79.9	85.7	67.7	75.9	74.5	90.2	85.5	90.2	
G73.0	83.0	73.4	79.2	62.3	69.3	68.4	82.2	79.1	83.0	

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.903 m [K=1.0000]
Humidity:
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	75.2	67.4	72.9	56.6	62.6	61.2	74.2	71.5	75.2	
G75.0	67.8	60.7	66.2	51.1	55.9	55.1	67.0	64.2	67.8	
G76.0	60.8	55.0	60.1	47.0	49.6	49.9	60.3	58.2	60.8	
G77.0	54.4	49.3	54.1	41.4	43.1	44.0	52.3	51.8	54.4	
G78.0	47.1	44.0	47.1	35.8	37.0	38.1	46.5	47.0	47.1	
G79.0	41.0	38.9	41.5	31.1	31.4	32.9	39.6	39.9	41.0	
G80.0	34.4	33.7	34.8	25.9	25.5	27.1	32.8	34.3	34.4	
G81.0	28.5	28.9	28.9	21.1	20.1	22.2	26.6	28.8	28.5	
G82.0	23.0	24.3	22.9	16.6	14.5	17.0	20.6	23.6	23.0	
G83.0	17.3	19.7	16.9	12.1	10.1	12.9	15.3	19.2	17.3	
G84.0	12.0	15.8	11.2	8.1	6.1	9.1	10.5	15.3	12.0	
G85.0	7.3	11.7	6.4	4.9	2.7	5.9	5.8	11.5	7.3	
G86.0	3.9	8.6	2.7	2.5	1.0	3.6	3.1	8.6	3.9	
G87.0	2.5	5.6	1.4	1.1	0.5	2.0	2.0	6.4	2.5	
G88.0	1.6	3.4	0.8	0.6	0.4	0.6	1.1	4.2	1.6	
G89.0	1.1	1.7	0.5	0.6	0.4	0.5	0.6	2.5	1.1	
G90.0	0.8	0.8	0.5	0.6	0.4	0.5	0.4	1.1	0.8	
G91.0	0.5	0.6	0.5	0.4	0.4	0.5	0.5	0.4	0.5	
G92.0	0.5	0.6	0.6	0.7	0.4	0.4	0.4	0.4	0.5	
G93.0	0.5	0.6	0.6	0.7	0.4	0.4	0.5	0.4	0.5	
G94.0	0.4	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.4	
G95.0	0.5	0.7	0.7	0.8	0.6	0.7	0.5	0.5	0.5	
G96.0	0.7	0.7	0.8	0.8	0.6	0.7	0.6	0.5	0.7	
G97.0	0.7	0.8	0.9	0.9	0.6	0.7	0.7	0.6	0.7	
G98.0	0.8	0.9	1.0	0.9	0.8	0.8	0.6	0.7	0.8	
G99.0	0.8	0.9	1.0	1.1	0.7	0.9	0.8	0.7	0.8	
G100.0	0.9	1.0	1.2	1.1	0.9	0.9	0.8	0.7	0.9	
G101.0	1.0	1.1	1.2	1.1	0.8	1.0	0.9	0.9	1.0	
G102.0	1.1	1.2	1.1	1.2	0.9	1.0	1.0	0.8	1.1	
G103.0	1.1	1.3	1.3	1.3	1.0	1.1	1.0	0.9	1.1	
G104.0	1.2	1.4	1.4	1.4	1.1	1.2	1.1	0.9	1.2	
G105.0	1.2	1.4	1.5	1.5	1.2	1.3	1.1	1.1	1.2	
G106.0	1.5	1.5	1.5	1.6	1.2	1.2	1.3	1.1	1.5	
G107.0	1.5	1.6	1.6	1.7	1.3	1.4	1.2	1.3	1.5	
G108.0	1.6	1.7	1.7	1.7	1.4	1.5	1.5	1.4	1.6	
G109.0	1.6	1.8	1.9	1.8	1.5	1.5	1.4	1.4	1.6	
G110.0	1.8	1.9	1.9	1.8	1.6	1.6	1.5	1.5	1.8	

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 9.903 m [K=1.0000]
 Humidity:
 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	1.8	1.9	2.0	2.0	1.8	1.7	1.6	1.5	1.8	
G112.0	1.9	2.0	2.0	2.0	1.8	1.8	1.7	1.7	1.9	
G113.0	2.0	2.2	2.1	2.1	1.8	1.8	1.8	1.7	2.0	
G114.0	2.1	2.2	2.2	2.2	2.0	1.9	2.0	1.8	2.1	
G115.0	2.2	2.3	2.3	2.3	2.0	2.0	2.1	1.9	2.2	
G116.0	2.4	2.3	2.4	2.4	2.2	2.2	2.1	1.9	2.4	
G117.0	2.4	2.5	2.7	2.6	2.3	2.3	2.2	2.0	2.4	
G118.0	2.5	2.7	2.7	2.6	2.4	2.4	2.3	2.2	2.5	
G119.0	2.6	2.8	3.0	2.7	2.6	2.5	2.4	2.2	2.6	
G120.0	2.8	2.9	3.0	2.9	2.7	2.5	2.4	2.4	2.8	
G121.0	2.8	2.9	3.0	3.0	2.9	2.8	2.6	2.5	2.8	
G122.0	3.0	3.1	3.3	3.1	2.9	2.8	2.7	2.6	3.0	
G123.0	3.2	3.1	3.5	3.3	3.0	2.9	2.9	2.6	3.2	
G124.0	3.3	3.3	3.5	3.4	3.2	3.0	3.0	2.8	3.3	
G125.0	3.3	3.5	3.8	3.5	3.3	3.2	3.1	3.0	3.3	
G126.0	3.7	3.6	3.8	3.7	3.5	3.2	3.3	3.1	3.7	
G127.0	3.7	3.8	4.0	3.9	3.6	3.3	3.4	3.2	3.7	
G128.0	3.8	3.9	4.2	4.0	3.8	3.7	3.6	3.3	3.8	
G129.0	4.1	4.0	4.3	4.2	3.9	3.7	3.7	3.5	4.1	
G130.0	4.3	4.2	4.5	4.2	4.1	3.8	3.8	3.7	4.3	
G131.0	4.4	4.3	4.6	4.4	4.2	4.0	4.0	3.7	4.4	
G132.0	4.6	4.4	4.8	4.6	4.4	4.1	4.1	3.9	4.6	
G133.0	4.8	4.6	5.0	4.7	4.6	4.2	4.3	4.0	4.8	
G134.0	4.9	4.8	5.1	4.8	4.7	4.3	4.4	4.2	4.9	
G135.0	5.0	4.9	5.3	5.0	4.8	4.6	4.7	4.3	5.0	
G136.0	5.2	4.9	5.5	5.2	5.0	4.7	4.7	4.5	5.2	
G137.0	5.4	5.1	5.7	5.2	5.2	4.8	4.9	4.6	5.4	
G138.0	5.5	5.3	5.9	5.3	5.4	5.1	5.0	4.9	5.5	
G139.0	5.8	5.5	6.0	5.5	5.4	5.2	5.2	5.1	5.8	
G140.0	5.9	5.5	6.2	5.7	5.6	5.4	5.3	5.2	5.9	
G141.0	6.2	5.7	6.4	5.8	5.8	5.6	5.6	5.4	6.2	
G142.0	6.4	5.8	6.7	6.0	5.9	5.8	5.6	5.6	6.4	
G143.0	6.5	5.9	6.7	6.2	6.1	5.9	5.9	5.7	6.5	
G144.0	6.6	6.1	7.0	6.3	6.3	6.1	6.0	5.9	6.6	
G145.0	6.8	6.2	7.2	6.5	6.4	6.3	6.2	6.1	6.8	
G146.0	7.0	6.4	7.3	6.7	6.6	6.4	6.3	6.4	7.0	
G147.0	7.1	6.5	7.6	6.8	6.7	6.6	6.4	6.5	7.1	

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.903 m [K=1.0000]
Humidity:
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	7.3	6.7	7.8	7.0	7.0	6.9	6.7	6.7	7.3	
G149.0	7.5	6.8	7.8	7.2	7.1	6.9	6.8	6.8	7.5	
G150.0	7.7	6.9	8.1	7.3	7.3	7.1	6.9	7.0	7.7	
G151.0	7.8	7.1	8.3	7.5	7.5	7.3	7.1	7.2	7.8	
G152.0	8.1	7.3	8.5	7.7	7.6	7.4	7.3	7.4	8.1	
G153.0	8.1	7.4	8.7	7.8	7.7	7.7	7.4	7.6	8.1	
G154.0	8.3	7.6	8.8	7.9	7.9	7.9	7.7	7.7	8.3	
G155.0	8.6	7.7	8.9	8.1	8.1	7.9	7.8	7.8	8.6	
G156.0	8.7	7.8	9.1	8.2	8.2	8.2	8.0	8.1	8.7	
G157.0	8.8	7.9	9.4	8.4	8.4	8.2	8.1	8.2	8.8	
G158.0	8.9	8.1	9.4	8.5	8.6	8.4	8.3	8.4	8.9	
G159.0	9.1	8.2	9.5	8.6	8.6	8.6	8.4	8.6	9.1	
G160.0	9.3	8.4	9.7	8.8	8.8	8.6	8.5	8.8	9.3	
G161.0	9.4	8.6	9.8	8.9	8.8	8.8	8.6	8.8	9.4	
G162.0	9.4	8.6	9.9	9.1	8.6	8.9	8.6	9.0	9.4	
G163.0	9.6	8.7	10.0	9.2	8.3	9.1	8.4	9.1	9.6	
G164.0	9.7	9.0	10.1	9.4	8.1	9.0	8.3	9.0	9.7	
G165.0	9.8	9.1	10.2	9.4	7.8	9.2	8.1	8.9	9.8	
G166.0	9.9	9.3	10.4	9.6	7.5	9.2	8.0	9.0	9.9	
G167.0	10.0	9.4	10.4	9.8	7.4	9.4	8.1	9.1	10.0	
G168.0	10.2	9.6	10.5	9.9	7.5	9.4	8.2	9.2	10.2	
G169.0	10.2	9.8	10.5	9.9	7.6	9.4	8.3	9.2	10.2	
G170.0	10.4	9.9	10.7	10.1	7.7	9.5	8.3	9.3	10.4	
G171.0	10.4	9.9	10.8	10.2	7.8	9.4	8.3	9.1	10.4	
G172.0	10.5	10.0	10.8	10.3	7.9	9.3	8.3	8.9	10.5	
G173.0	10.7	10.1	10.9	10.3	7.9	9.2	8.2	8.7	10.7	
G174.0	10.7	10.2	11.0	10.4	8.1	9.2	8.5	8.9	10.7	
G175.0	10.8	10.3	11.1	10.6	8.6	9.4	8.7	9.1	10.8	
G176.0	10.9	10.4	11.1	10.6	9.0	9.5	9.0	9.2	10.9	
G177.0	10.9	10.4	11.1	10.7	9.4	9.5	9.4	9.4	10.9	
G178.0	10.9	10.5	11.1	10.7	9.7	9.4	9.6	9.5	10.9	
G179.0	11.0	10.6	11.1	10.7	10.2	9.9	10.1	9.8	11.0	
G180.0	10.7	10.3	10.8	10.5	10.7	10.4	10.8	10.4	10.7	

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 9.903 m [K=1.0000]
 Humidity:
 Inspector: