

Report No.:

Test Time: 2025-10-07 17:51

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: SUBSOL/180W-A

Lamp Catalog:

Number of Lamps:

Luminous Length (mm):

Luminous Height (mm):

Current: 0.0000 A

Power Factor: 0.0000

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm):

Voltage: 0.00 V

Power: 0.00 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1473.6 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H90.1

Vertical Diffuse Angle(50%): V89

Luminous Efficacy (lm/w): 1473.62

Max. Intensity: 826.48 cd

S/MH(C0/C180): 1.40

Total Rated Lamp Lumens: 1473.6 lm

Efficiency: 100%

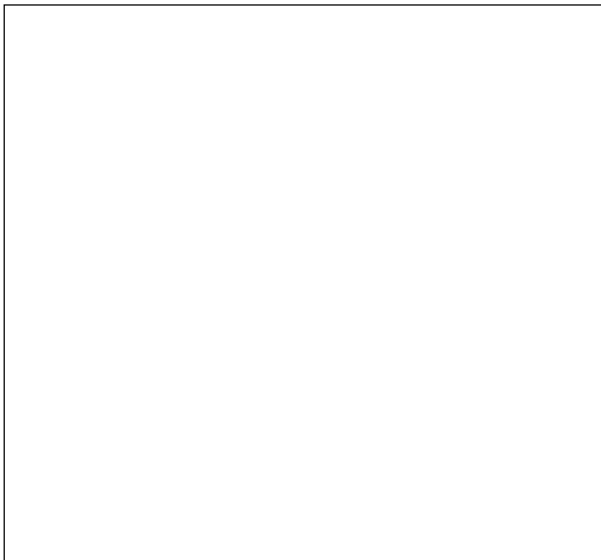
Upward Ratio: 1%

C0r0 Intensity: 770.03 cd

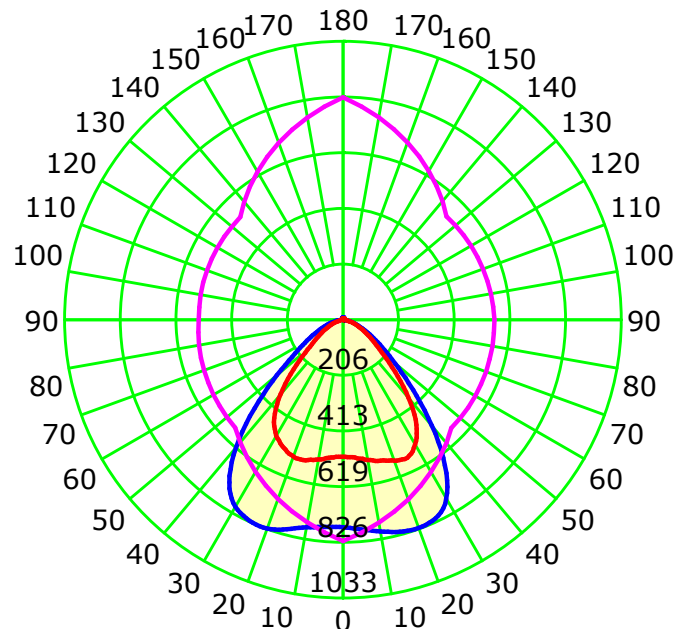
Pos of Max. Intensity: H180 V22

S/MH(C90/C270): 1.40

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 89.2°

— C0-C180 — C90-C270 — G22

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

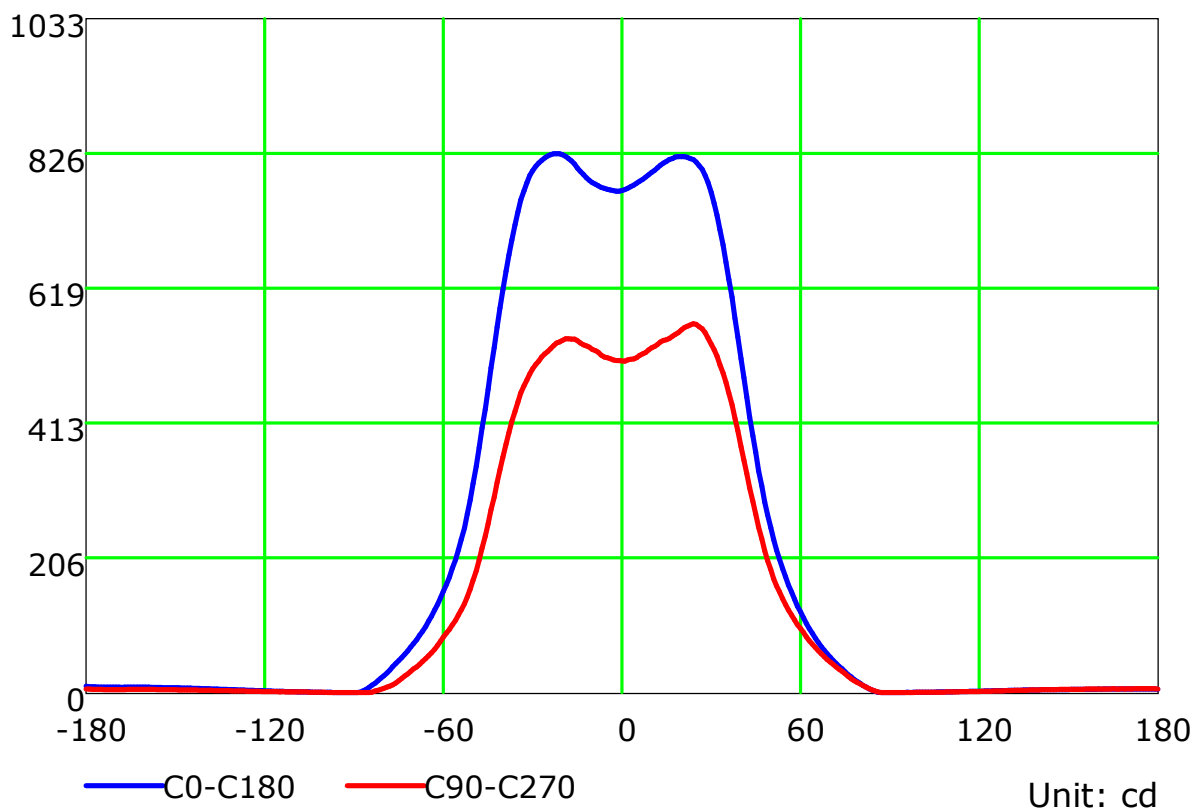
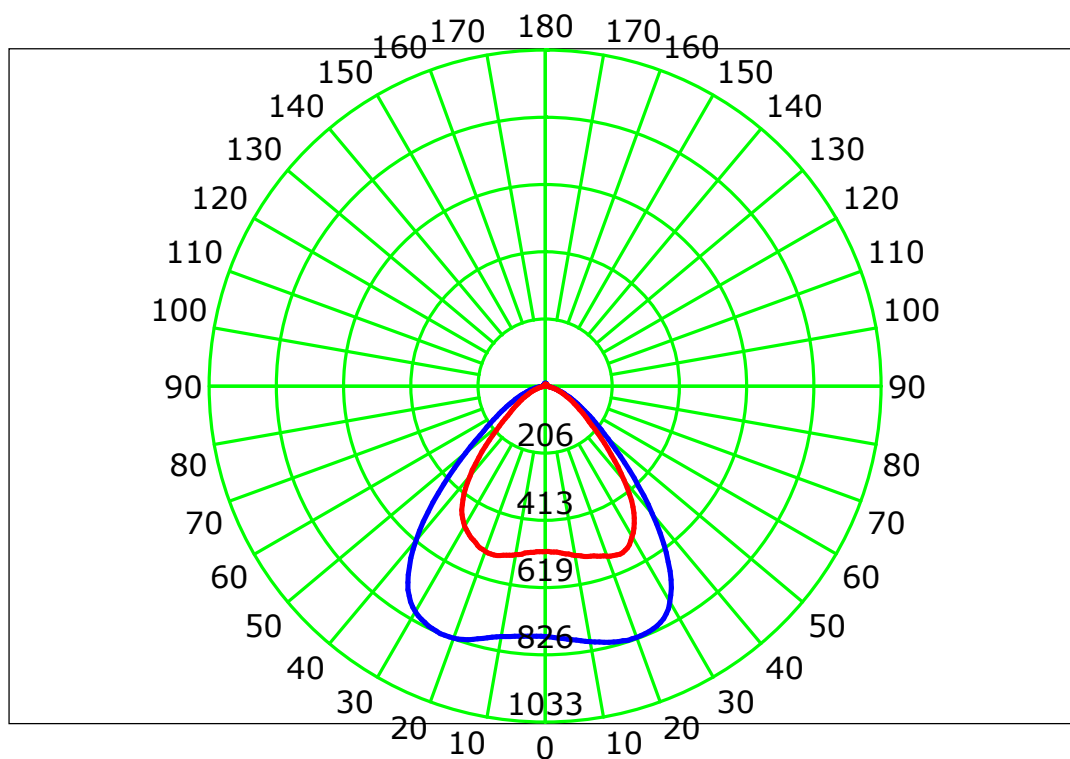
Test Device: GPM-1600L

Distance: 9.903 m [K=1.0000]

Humidity:

Inspector:

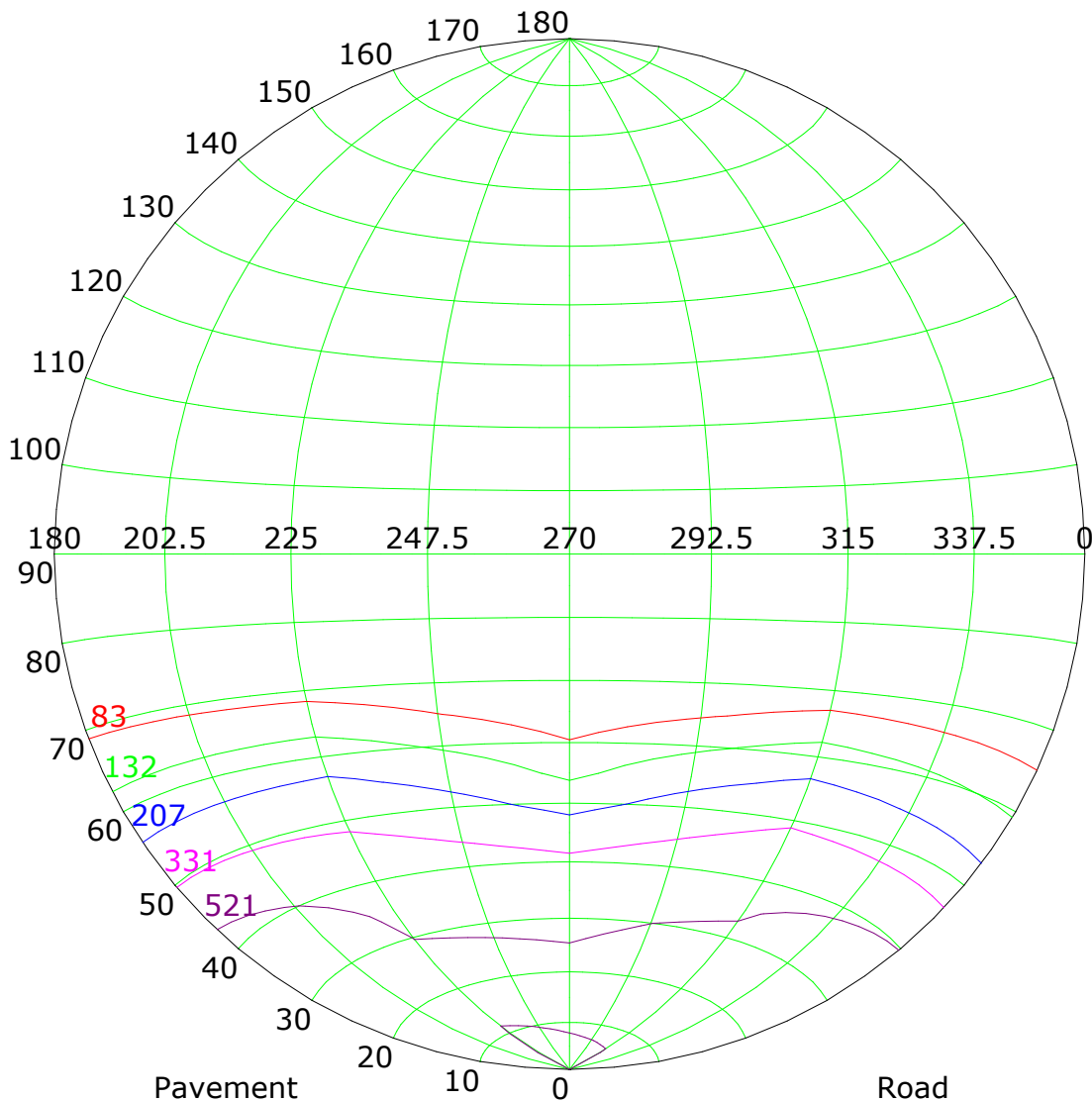
Luminous Intensity Distribution Curve



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:

Isocandela (sphere)



Imax (100%): 826 cd

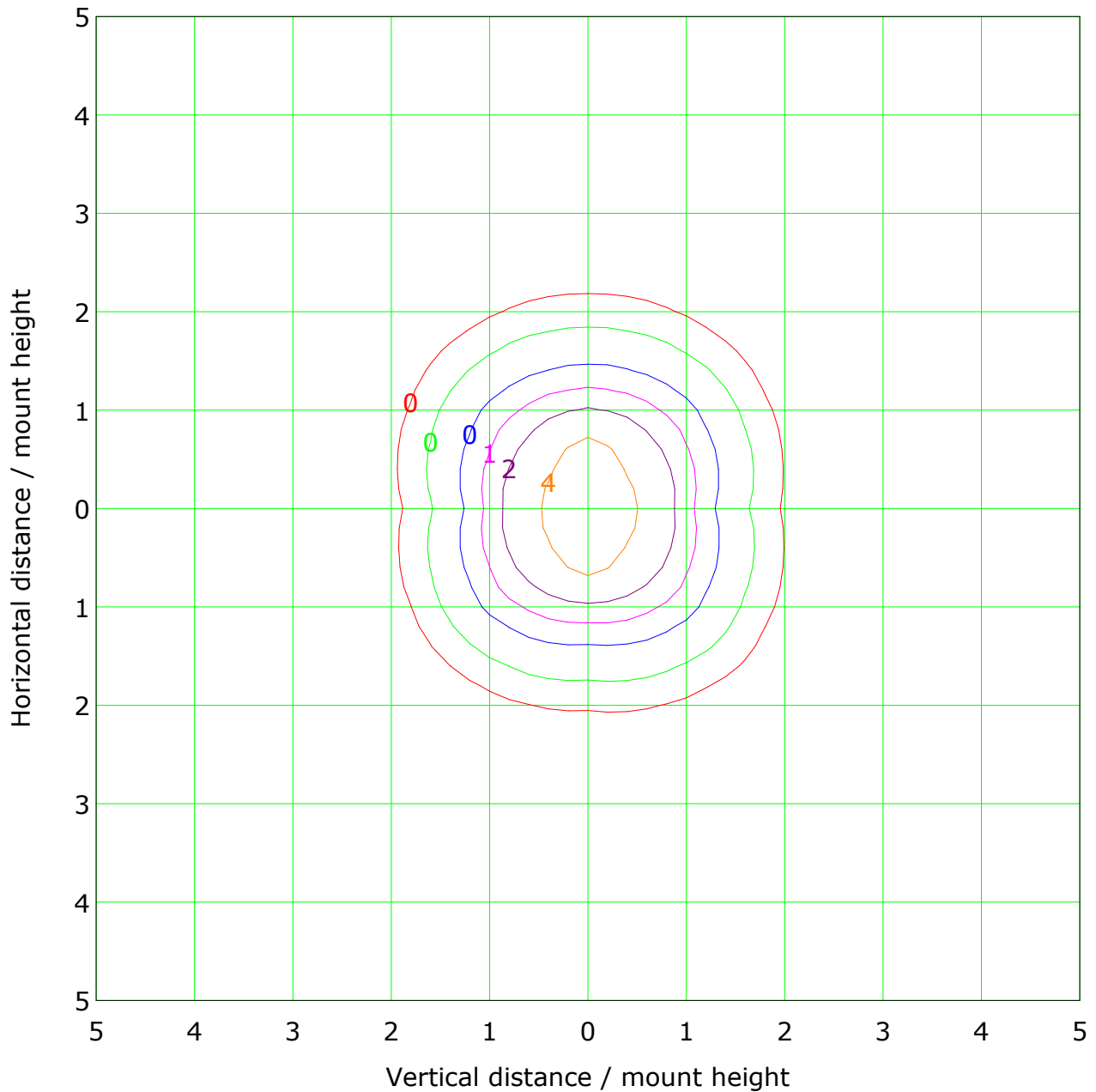
(10%): 83 cd
(25%): 207 cd
(63%): 521 cd

(16%): 132 cd
(40%): 331 cd
(100%): 826 cd

CIE: narrow - short
CIE: Full-cut-off luminaire
Max.At90: 0.204 cd/klm

IES: Cut-off
Max.At80: 17.583 cd/klm
Max.80-90: 17.583 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 7.7 lx

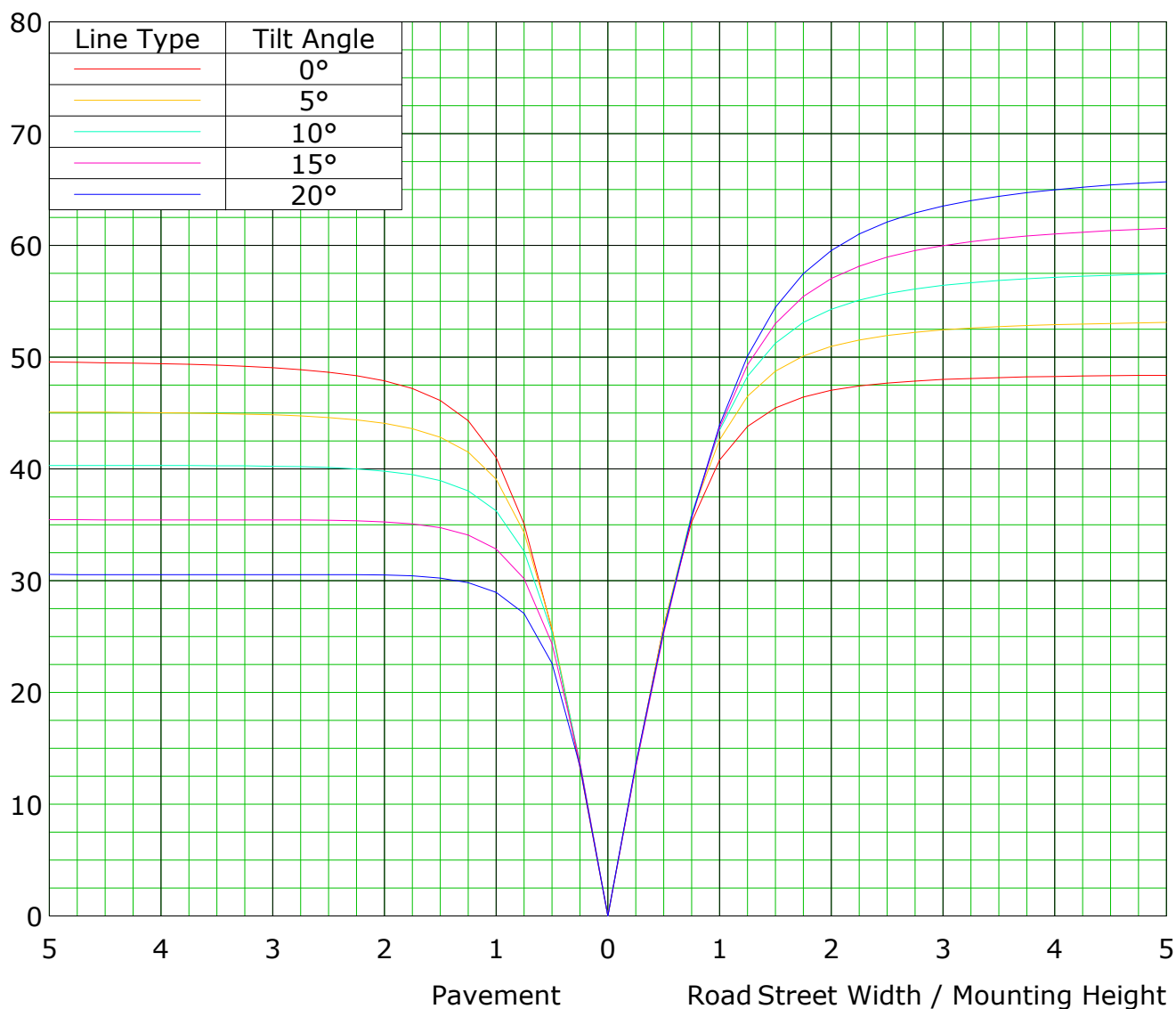
(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.4 lx	(10%): 0.8 lx
(20%): 1.5 lx	(50%): 3.9 lx
(100%): 7.7 lx	

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:

Roadway CU Curve

Efficiency(%)



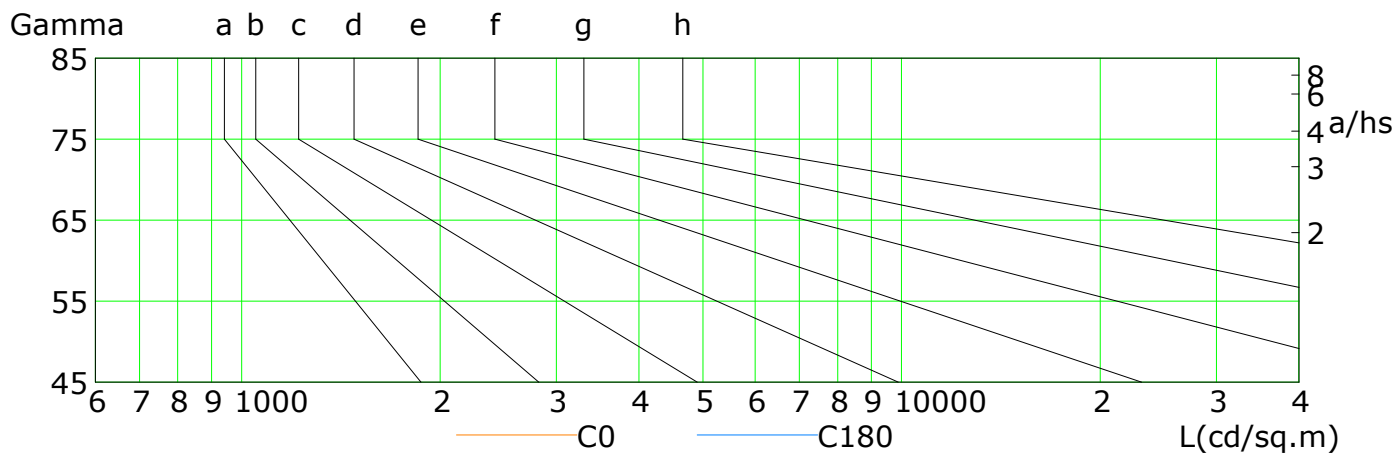
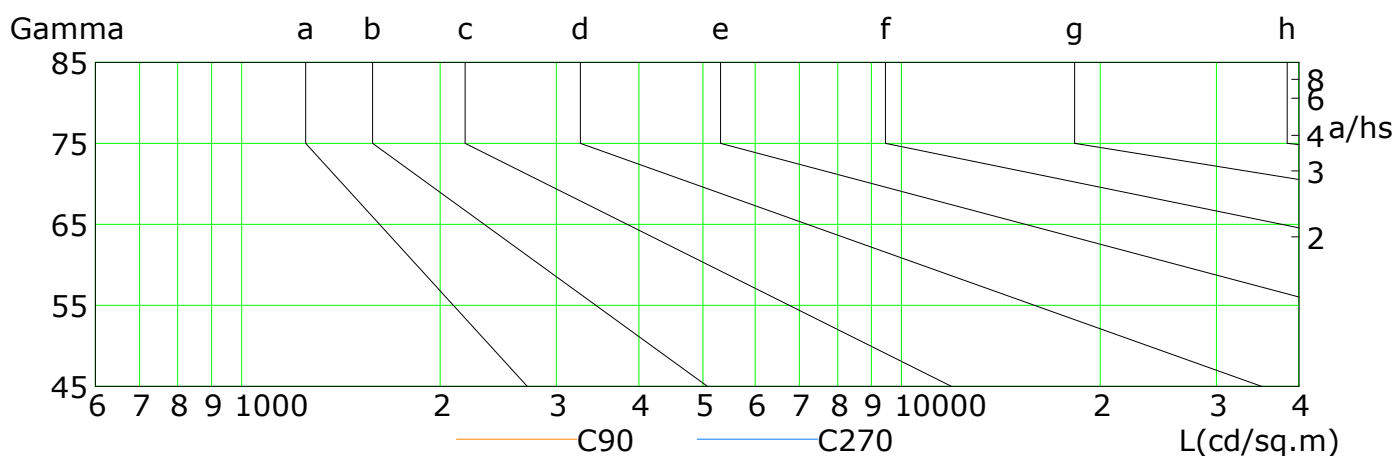
C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

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

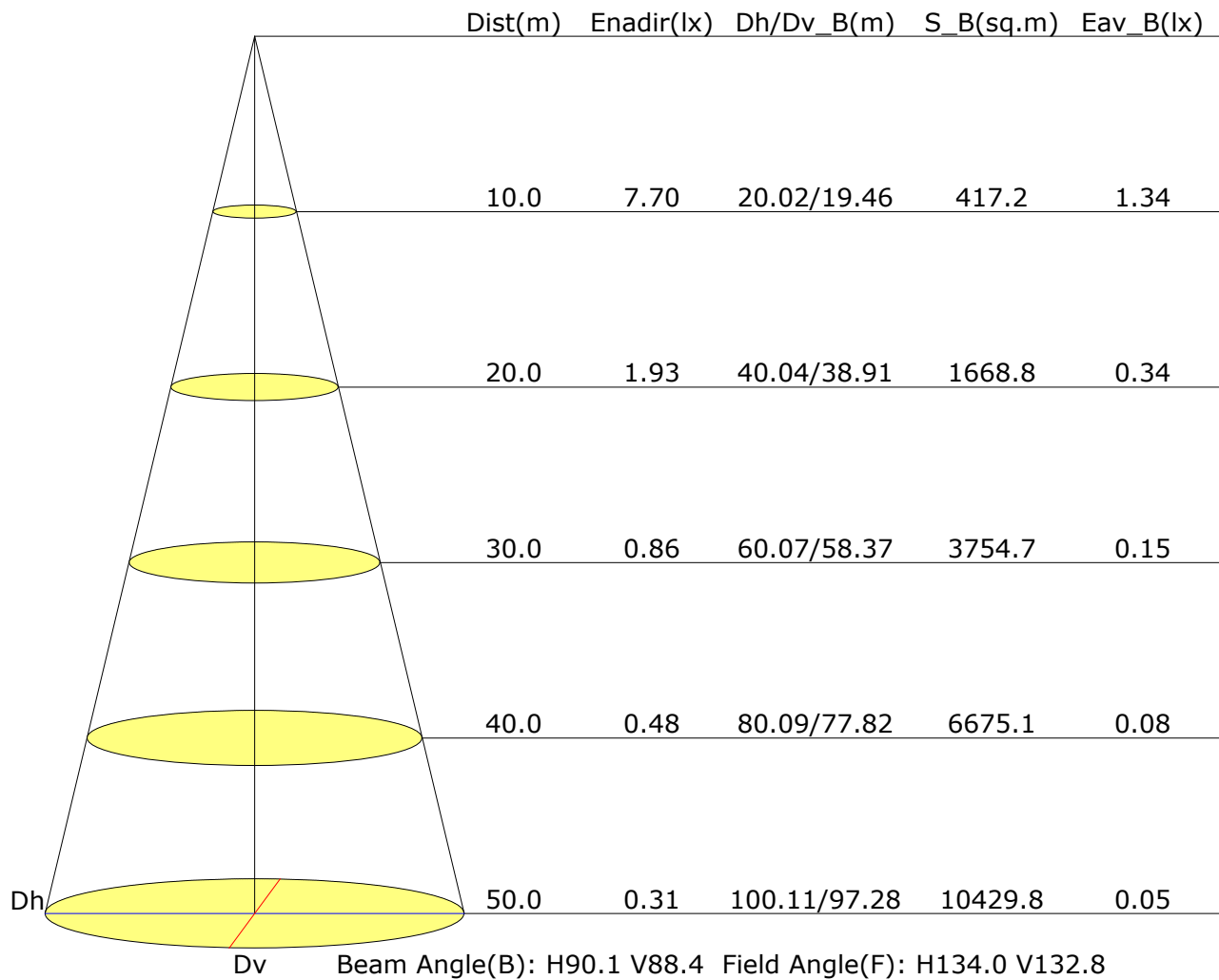


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	368	253	178	124	84	54	32	14	2
C90	274	189	135	98	69	47	29	13	3
C180	465	321	219	155	110	76	49	26	8
C270	259	172	119	85	57	36	18	7	0

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:

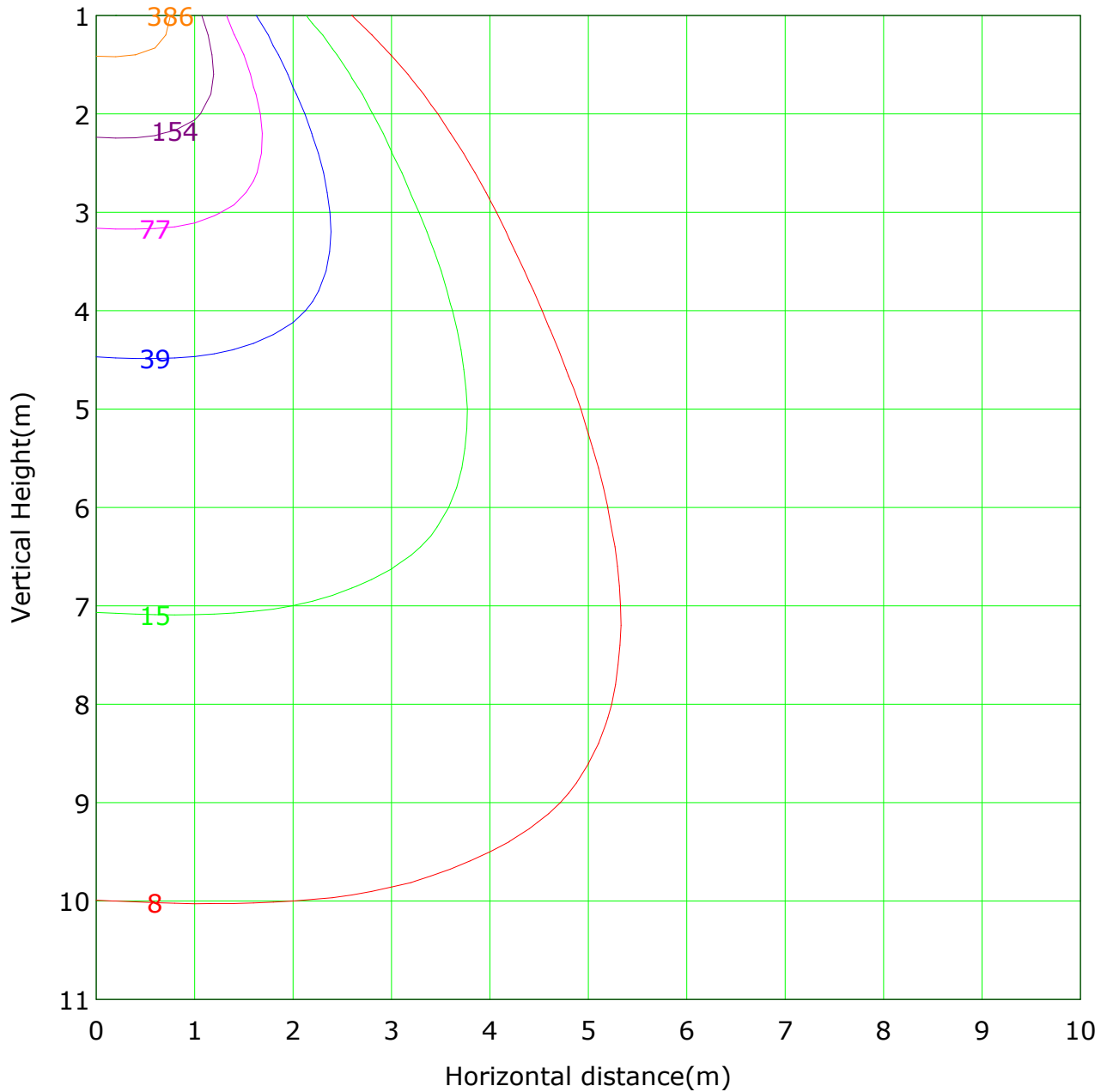
Illuminance at a Distance



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



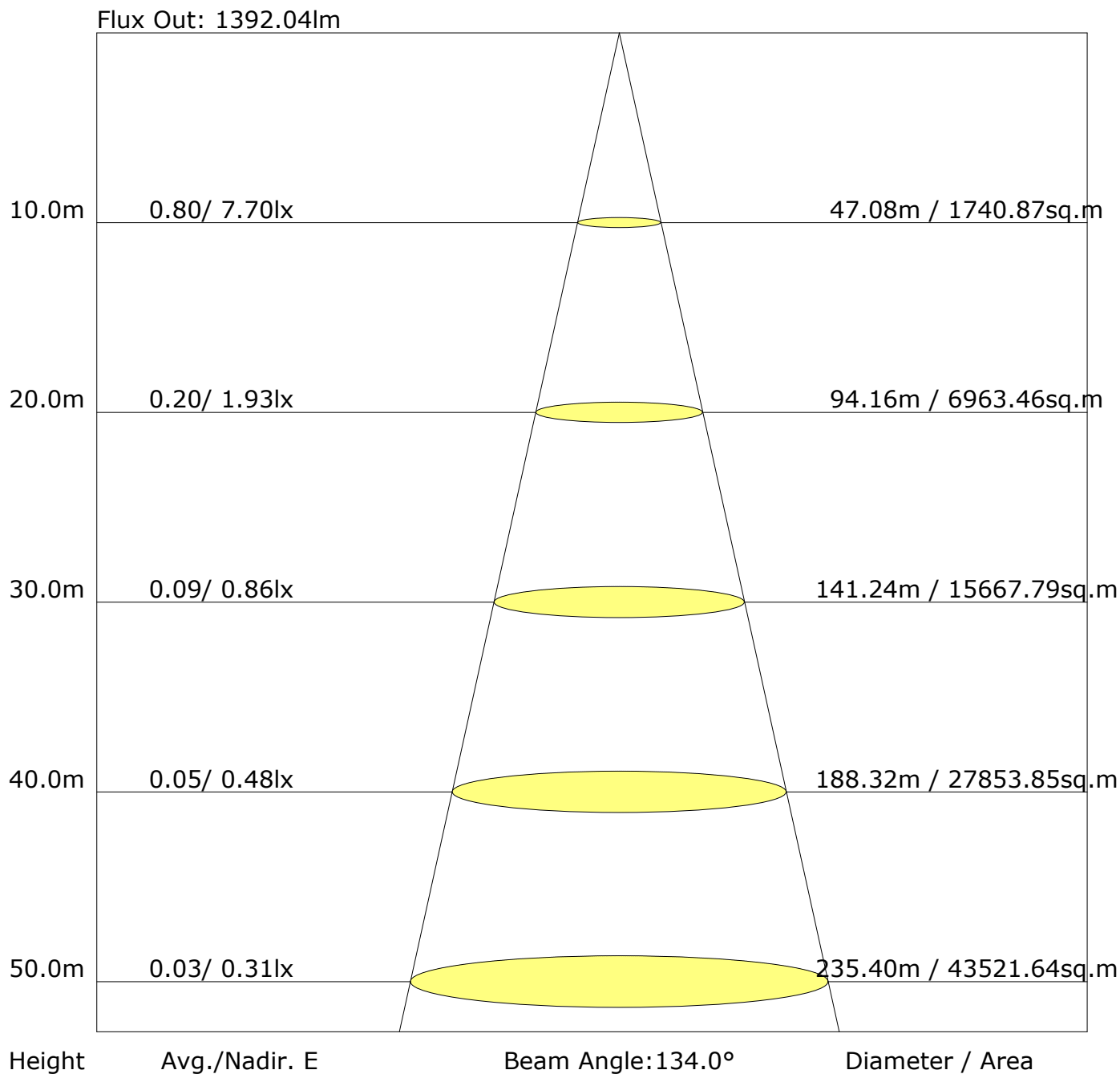
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 771.2 lx
— (1%): 7.7 lx — (2%): 15.4 lx
— (5%): 38.6 lx — (10%): 77.1 lx
— (20%): 154.2 lx — (50%): 385.6 lx
— (100%): 771.2 lx

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:

Gamma Plane (°):0.0-180.0:1.0
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 $1474 \ln(8 \log(F/F_0) = 1.3)$.

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	574.2	0.5	0.5	0.04	0.04
1.0-2.0	574.6	1.6	2.2	0.11	0.15
2.0-3.0	575.5	2.8	5.0	0.19	0.34
3.0-4.0	576.9	3.9	8.8	0.26	0.60
4.0-5.0	578.4	5.0	13.8	0.34	0.94
5.0-6.0	580.3	6.1	19.9	0.41	1.35
6.0-7.0	582.5	7.2	27.1	0.49	1.84
7.0-8.0	584.9	8.4	35.5	0.57	2.41
8.0-9.0	587.8	9.5	45.0	0.65	3.06
9.0-10.0	590.6	10.7	55.7	0.73	3.78
10.0-11.0	593.7	11.9	67.6	0.81	4.59
11.0-12.0	596.9	13.0	80.6	0.89	5.47
12.0-13.0	600.1	14.2	94.9	0.97	6.44
13.0-14.0	603.4	15.4	110.3	1.05	7.49
14.0-15.0	606.4	16.6	127.0	1.13	8.62
15.0-16.0	609.2	17.9	144.8	1.21	9.83
16.0-17.0	611.9	19.1	163.9	1.29	11.12
17.0-18.0	614.3	20.3	184.1	1.37	12.50
18.0-19.0	616.4	21.4	205.6	1.46	13.95
19.0-20.0	618.1	22.6	228.2	1.54	15.49
20.0-21.0	619.3	23.8	252.0	1.61	17.10
21.0-22.0	620.1	24.9	276.9	1.69	18.79
22.0-23.0	620.4	26.0	302.9	1.77	20.56
23.0-24.0	620.0	27.1	330.0	1.84	22.40
24.0-25.0	619.0	28.2	358.2	1.91	24.31
25.0-26.0	617.2	29.1	387.3	1.98	26.28
26.0-27.0	614.4	30.1	417.4	2.04	28.32
27.0-28.0	610.5	30.9	448.3	2.10	30.42
28.0-29.0	605.6	31.7	480.0	2.15	32.57
29.0-30.0	599.6	32.4	512.4	2.20	34.77
30.0-31.0	592.6	33.0	545.4	2.24	37.01
31.0-32.0	584.5	33.5	578.8	2.27	39.28
32.0-33.0	575.0	33.9	612.7	2.30	41.58
33.0-34.0	564.4	34.2	646.9	2.32	43.90
34.0-35.0	552.3	34.3	681.2	2.33	46.23
35.0-36.0	538.9	34.3	715.5	2.33	48.55

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 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	524.6	34.2	749.7	2.32	50.88
37.0-38.0	508.9	34.0	783.7	2.31	53.18
38.0-39.0	492.5	33.6	817.3	2.28	55.46
39.0-40.0	474.7	33.1	850.4	2.25	57.71
40.0-41.0	456.4	32.5	882.9	2.21	59.92
41.0-42.0	438.2	31.8	914.8	2.16	62.08
42.0-43.0	418.9	31.0	945.8	2.11	64.18
43.0-44.0	399.3	30.1	975.9	2.05	66.23
44.0-45.0	380.0	29.2	1005.2	1.98	68.21
45.0-46.0	360.3	28.2	1033.3	1.91	70.12
46.0-47.0	341.3	27.1	1060.5	1.84	71.96
47.0-48.0	322.3	26.1	1086.5	1.77	73.73
48.0-49.0	303.7	24.9	1111.5	1.69	75.43
49.0-50.0	286.4	23.9	1135.4	1.62	77.05
50.0-51.0	269.1	22.8	1158.2	1.55	78.59
51.0-52.0	252.7	21.7	1179.8	1.47	80.06
52.0-53.0	237.5	20.7	1200.5	1.40	81.47
53.0-54.0	222.6	19.6	1220.1	1.33	82.80
54.0-55.0	208.7	18.6	1238.8	1.26	84.06
55.0-56.0	195.2	17.6	1256.4	1.20	85.26
56.0-57.0	182.2	16.7	1273.1	1.13	86.39
57.0-58.0	170.2	15.7	1288.8	1.07	87.46
58.0-59.0	158.4	14.8	1303.6	1.01	88.46
59.0-60.0	147.6	13.9	1317.6	0.95	89.41
60.0-61.0	137.1	13.1	1330.6	0.89	90.30
61.0-62.0	126.7	12.2	1342.8	0.83	91.13
62.0-63.0	117.1	11.4	1354.2	0.77	91.90
63.0-64.0	107.9	10.6	1364.8	0.72	92.62
64.0-65.0	99.3	9.8	1374.7	0.67	93.29
65.0-66.0	91.5	9.1	1383.8	0.62	93.90
66.0-67.0	83.9	8.4	1392.2	0.57	94.48
67.0-68.0	76.9	7.8	1400.0	0.53	95.01
68.0-69.0	70.3	7.2	1407.2	0.49	95.49
69.0-70.0	64.0	6.6	1413.8	0.45	95.94
70.0-71.0	58.2	6.0	1419.8	0.41	96.35
71.0-72.0	52.6	5.5	1425.2	0.37	96.72

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 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	47.3	5.0	1430.2	0.34	97.05
73.0-74.0	42.5	4.5	1434.7	0.30	97.36
74.0-75.0	37.7	4.0	1438.6	0.27	97.63
75.0-76.0	33.4	3.5	1442.2	0.24	97.87
76.0-77.0	29.2	3.1	1445.3	0.21	98.08
77.0-78.0	25.2	2.7	1448.0	0.18	98.26
78.0-79.0	21.6	2.3	1450.3	0.16	98.42
79.0-80.0	18.1	2.0	1452.3	0.13	98.55
80.0-81.0	14.7	1.6	1453.9	0.11	98.66
81.0-82.0	11.6	1.3	1455.1	0.09	98.74
82.0-83.0	8.8	1.0	1456.1	0.07	98.81
83.0-84.0	6.3	0.7	1456.8	0.05	98.86
84.0-85.0	4.2	0.5	1457.2	0.03	98.89
85.0-86.0	2.5	0.3	1457.5	0.02	98.91
86.0-87.0	1.3	0.1	1457.6	0.01	98.92
87.0-88.0	0.6	0.1	1457.7	0.00	98.92
88.0-89.0	0.3	0.0	1457.7	0.00	98.92
89.0-90.0	0.2	0.0	1457.7	0.00	98.92
90.0-91.0	0.2	0.0	1457.8	0.00	98.92
91.0-92.0	0.2	0.0	1457.8	0.00	98.93
92.0-93.0	0.3	0.0	1457.8	0.00	98.93
93.0-94.0	0.3	0.0	1457.9	0.00	98.93
94.0-95.0	0.4	0.0	1457.9	0.00	98.93
95.0-96.0	0.4	0.0	1457.9	0.00	98.94
96.0-97.0	0.4	0.0	1458.0	0.00	98.94
97.0-98.0	0.5	0.0	1458.0	0.00	98.94
98.0-99.0	0.5	0.1	1458.1	0.00	98.95
99.0-100.0	0.5	0.1	1458.2	0.00	98.95
100.0-101.0	0.6	0.1	1458.2	0.00	98.96
101.0-102.0	0.7	0.1	1458.3	0.00	98.96
102.0-103.0	0.7	0.1	1458.4	0.01	98.97
103.0-104.0	0.8	0.1	1458.5	0.01	98.97
104.0-105.0	0.9	0.1	1458.6	0.01	98.98
105.0-106.0	0.9	0.1	1458.7	0.01	98.98
106.0-107.0	1.0	0.1	1458.8	0.01	98.99
107.0-108.0	1.1	0.1	1458.9	0.01	99.00

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 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	1.2	0.1	1459.0	0.01	99.01
109.0-110.0	1.2	0.1	1459.1	0.01	99.02
110.0-111.0	1.3	0.1	1459.3	0.01	99.03
111.0-112.0	1.4	0.1	1459.4	0.01	99.04
112.0-113.0	1.5	0.1	1459.5	0.01	99.05
113.0-114.0	1.5	0.2	1459.7	0.01	99.06
114.0-115.0	1.6	0.2	1459.9	0.01	99.07
115.0-116.0	1.7	0.2	1460.0	0.01	99.08
116.0-117.0	1.8	0.2	1460.2	0.01	99.09
117.0-118.0	1.9	0.2	1460.4	0.01	99.10
118.0-119.0	2.0	0.2	1460.6	0.01	99.12
119.0-120.0	2.1	0.2	1460.8	0.01	99.13
120.0-121.0	2.2	0.2	1461.0	0.01	99.14
121.0-122.0	2.3	0.2	1461.2	0.01	99.16
122.0-123.0	2.4	0.2	1461.4	0.01	99.17
123.0-124.0	2.5	0.2	1461.7	0.02	99.19
124.0-125.0	2.6	0.2	1461.9	0.02	99.20
125.0-126.0	2.7	0.2	1462.1	0.02	99.22
126.0-127.0	2.8	0.2	1462.4	0.02	99.24
127.0-128.0	2.9	0.3	1462.6	0.02	99.25
128.0-129.0	3.0	0.3	1462.9	0.02	99.27
129.0-130.0	3.1	0.3	1463.1	0.02	99.29
130.0-131.0	3.2	0.3	1463.4	0.02	99.31
131.0-132.0	3.3	0.3	1463.7	0.02	99.33
132.0-133.0	3.4	0.3	1464.0	0.02	99.35
133.0-134.0	3.5	0.3	1464.2	0.02	99.36
134.0-135.0	3.6	0.3	1464.5	0.02	99.38
135.0-136.0	3.7	0.3	1464.8	0.02	99.40
136.0-137.0	3.8	0.3	1465.1	0.02	99.42
137.0-138.0	4.0	0.3	1465.4	0.02	99.44
138.0-139.0	4.1	0.3	1465.7	0.02	99.46
139.0-140.0	4.2	0.3	1466.0	0.02	99.48
140.0-141.0	4.3	0.3	1466.3	0.02	99.50
141.0-142.0	4.3	0.3	1466.6	0.02	99.52
142.0-143.0	4.4	0.3	1466.9	0.02	99.54
143.0-144.0	4.5	0.3	1467.2	0.02	99.56

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	4.6	0.3	1467.5	0.02	99.58
145.0-146.0	4.7	0.3	1467.8	0.02	99.60
146.0-147.0	4.8	0.3	1468.0	0.02	99.62
147.0-148.0	4.9	0.3	1468.3	0.02	99.64
148.0-149.0	5.0	0.3	1468.6	0.02	99.66
149.0-150.0	5.0	0.3	1468.9	0.02	99.68
150.0-151.0	5.1	0.3	1469.2	0.02	99.70
151.0-152.0	5.2	0.3	1469.4	0.02	99.72
152.0-153.0	5.2	0.3	1469.7	0.02	99.73
153.0-154.0	5.3	0.3	1470.0	0.02	99.75
154.0-155.0	5.4	0.3	1470.2	0.02	99.77
155.0-156.0	5.5	0.2	1470.5	0.02	99.79
156.0-157.0	5.6	0.2	1470.7	0.02	99.80
157.0-158.0	5.6	0.2	1470.9	0.02	99.82
158.0-159.0	5.7	0.2	1471.2	0.02	99.83
159.0-160.0	5.7	0.2	1471.4	0.01	99.85
160.0-161.0	5.8	0.2	1471.6	0.01	99.86
161.0-162.0	5.8	0.2	1471.8	0.01	99.88
162.0-163.0	5.8	0.2	1472.0	0.01	99.89
163.0-164.0	5.8	0.2	1472.2	0.01	99.90
164.0-165.0	5.9	0.2	1472.4	0.01	99.91
165.0-166.0	5.9	0.2	1472.5	0.01	99.93
166.0-167.0	5.9	0.1	1472.7	0.01	99.94
167.0-168.0	5.8	0.1	1472.8	0.01	99.95
168.0-169.0	5.8	0.1	1472.9	0.01	99.95
169.0-170.0	5.9	0.1	1473.1	0.01	99.96
170.0-171.0	5.9	0.1	1473.2	0.01	99.97
171.0-172.0	5.9	0.1	1473.3	0.01	99.98
172.0-173.0	5.9	0.1	1473.3	0.01	99.98
173.0-174.0	5.9	0.1	1473.4	0.00	99.99
174.0-175.0	5.9	0.1	1473.5	0.00	99.99
175.0-176.0	5.9	0.1	1473.5	0.00	99.99
176.0-177.0	6.0	0.0	1473.6	0.00	100.00
177.0-178.0	6.0	0.0	1473.6	0.00	100.00
178.0-179.0	6.1	0.0	1473.6	0.00	100.00
179.0-180.0	6.1	0.0	1473.6	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°): 1005.15 lm

%lum = 68.2%

%lamp = 68.2%

cone flux(120°): 1317.56 lm

%lum = 89.4%

%lamp = 89.4%

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	770.0	509.5	508.9	507.9	770.0	509.5	508.9	507.9	770.0	
G1.0	771.4	510.2	508.4	508.1	768.7	508.0	509.4	510.0	771.4	
G2.0	773.1	511.2	510.0	507.9	769.0	507.8	509.1	511.2	773.1	
G3.0	775.7	514.3	511.3	507.2	769.9	508.8	510.0	512.5	775.7	
G4.0	778.1	516.6	511.8	507.5	770.5	509.3	512.1	514.6	778.1	
G5.0	781.1	518.4	513.6	509.2	771.7	508.8	513.6	517.9	781.1	
G6.0	784.1	521.4	517.3	510.4	773.3	509.6	514.7	520.5	784.1	
G7.0	787.0	525.7	519.6	510.6	774.8	511.8	517.4	522.3	787.0	
G8.0	790.3	528.7	521.3	512.1	777.1	512.4	521.7	526.2	790.3	
G9.0	794.0	531.3	525.6	515.1	779.8	514.1	524.5	530.2	794.0	
G10.0	797.6	534.7	528.8	516.6	782.0	517.0	526.4	532.8	797.6	
G11.0	800.9	539.8	531.0	518.8	785.7	519.6	529.8	537.3	800.9	
G12.0	804.5	542.3	533.8	522.6	789.2	520.7	531.9	542.0	804.5	
G13.0	808.4	545.9	537.6	525.3	794.2	523.5	533.4	545.8	808.4	
G14.0	812.1	550.8	539.9	527.2	799.3	526.6	536.0	547.8	812.1	
G15.0	814.7	554.2	540.9	529.7	804.3	528.2	539.7	550.5	814.7	
G16.0	817.2	556.0	542.9	532.8	810.3	529.0	542.0	554.4	817.2	
G17.0	818.9	559.3	546.6	535.0	815.5	530.9	542.2	557.0	818.9	
G18.0	821.5	563.3	549.5	535.7	818.7	532.8	542.7	558.4	821.5	
G19.0	821.8	565.6	552.1	538.6	822.4	533.8	542.7	562.1	821.8	
G20.0	822.0	566.3	556.5	540.3	824.6	535.7	540.3	564.3	822.0	
G21.0	821.7	568.3	559.7	541.0	826.2	538.6	537.9	564.9	821.7	
G22.0	821.0	568.9	561.7	543.1	826.5	539.8	536.0	566.1	821.0	
G23.0	819.1	567.9	563.6	546.0	826.3	539.7	532.4	567.6	819.1	
G24.0	817.2	568.0	565.6	548.3	824.7	539.9	527.1	566.9	817.2	
G25.0	813.5	568.8	564.8	549.4	822.9	540.1	523.1	564.4	813.5	
G26.0	808.3	568.1	561.3	550.8	819.9	538.5	519.5	561.8	808.3	
G27.0	802.2	565.8	557.8	552.8	815.8	533.9	514.5	559.2	802.2	
G28.0	793.0	564.1	552.1	552.1	812.0	530.9	508.3	553.9	793.0	
G29.0	781.9	562.9	543.6	551.1	806.9	525.3	503.3	548.2	781.9	
G30.0	766.6	559.0	534.5	550.4	800.4	519.1	496.5	543.5	766.6	
G31.0	750.2	555.8	526.0	547.8	792.8	512.8	488.6	537.2	750.2	
G32.0	732.1	552.7	515.9	543.3	781.7	506.6	479.2	528.8	732.1	
G33.0	710.1	547.7	502.8	538.5	769.3	499.6	470.6	520.9	710.1	
G34.0	686.3	541.2	489.8	533.6	755.7	490.6	459.4	514.3	686.3	
G35.0	659.8	534.5	475.7	526.2	736.7	481.7	445.2	505.7	659.8	
G36.0	633.6	528.1	459.2	517.3	717.4	473.6	431.1	496.2	633.6	

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	606.2	520.4	441.5	508.8	693.9	462.7	415.9	487.2	606.2	
G38.0	574.1	509.6	421.1	499.6	671.3	453.0	398.5	478.3	574.1	
G39.0	545.4	500.8	401.5	488.0	645.9	444.3	381.3	467.5	545.4	
G40.0	512.4	488.6	377.4	475.4	617.1	433.2	361.1	456.2	512.4	
G41.0	483.2	476.0	356.7	464.7	589.8	422.1	342.0	445.9	483.2	
G42.0	453.3	462.9	336.0	451.7	560.4	411.2	322.0	433.8	453.3	
G43.0	422.5	449.6	314.0	436.8	528.8	399.9	299.6	419.4	422.5	
G44.0	393.9	435.2	293.0	423.1	497.7	388.0	280.7	405.7	393.9	
G45.0	368.3	420.1	273.8	410.1	464.9	374.5	258.9	391.3	368.3	
G46.0	339.9	403.3	253.5	394.4	434.3	362.7	239.7	375.6	339.9	
G47.0	316.7	389.2	235.9	378.4	405.8	349.1	221.5	360.7	316.7	
G48.0	292.4	370.8	217.5	361.9	375.5	333.9	203.2	344.9	292.4	
G49.0	272.5	355.3	202.3	346.6	347.5	319.8	186.6	328.7	272.5	
G50.0	253.1	339.5	188.7	329.6	320.9	306.5	172.4	312.5	253.1	
G51.0	234.9	322.3	174.6	312.2	295.2	290.6	158.8	294.5	234.9	
G52.0	218.7	305.0	163.9	296.3	274.1	276.2	147.0	279.4	218.7	
G53.0	205.0	289.2	154.6	280.6	252.2	260.8	136.0	261.4	205.0	
G54.0	190.0	272.0	143.9	262.3	234.7	246.6	126.9	245.5	190.0	
G55.0	178.1	256.5	135.2	247.0	218.7	232.6	119.2	230.0	178.1	
G56.0	165.0	238.8	126.8	230.2	203.3	217.6	110.7	213.8	165.0	
G57.0	154.2	223.9	119.1	214.6	190.6	204.2	103.9	199.1	154.2	
G58.0	143.7	209.5	111.8	200.4	177.1	189.8	97.2	183.4	143.7	
G59.0	132.9	193.6	104.4	186.2	166.1	177.4	91.3	170.4	132.9	
G60.0	124.0	180.4	98.2	172.5	155.4	165.8	85.2	157.7	124.0	
G61.0	115.1	167.5	92.3	159.2	144.9	152.5	78.8	143.6	115.1	
G62.0	106.2	154.2	85.5	146.8	135.2	141.5	72.3	131.6	106.2	
G63.0	98.4	141.9	80.0	135.5	126.7	130.9	66.6	121.1	98.4	
G64.0	90.9	129.8	74.3	123.5	117.3	119.5	61.1	109.2	90.9	
G65.0	83.7	119.7	69.3	113.9	109.6	110.6	56.7	99.9	83.7	
G66.0	77.2	109.5	64.5	104.7	101.3	100.8	52.3	90.2	77.2	
G67.0	70.5	99.7	59.7	95.1	94.1	93.0	47.7	82.0	70.5	
G68.0	64.8	91.3	55.4	87.1	88.0	84.6	43.6	73.9	64.8	
G69.0	59.6	83.2	51.0	79.7	81.4	76.7	39.6	64.8	59.6	
G70.0	54.0	74.8	47.1	71.9	75.6	69.4	36.3	58.2	54.0	
G71.0	49.3	67.9	43.4	65.6	70.0	62.6	32.5	52.1	49.3	
G72.0	44.8	60.7	39.5	58.8	64.1	55.1	28.9	46.0	44.8	
G73.0	40.6	54.8	36.0	53.3	59.2	49.5	25.7	40.4	40.6	

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 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	36.3	48.8	32.7	47.4	53.9	43.7	21.9	35.2	36.3	
G75.0	31.9	43.2	29.1	42.6	49.2	38.8	18.4	30.9	31.9	
G76.0	27.9	38.4	25.3	38.2	44.7	34.0	15.1	26.5	27.9	
G77.0	24.1	33.6	21.1	33.9	39.8	29.4	12.2	22.6	24.1	
G78.0	20.5	29.0	18.4	29.6	34.8	25.5	10.1	18.8	20.5	
G79.0	17.4	24.6	15.9	25.9	30.1	21.8	8.5	14.9	17.4	
G80.0	14.3	19.7	13.5	21.7	25.9	17.7	6.6	11.2	14.3	
G81.0	11.2	14.9	10.9	17.1	22.5	13.6	5.1	8.6	11.2	
G82.0	8.9	11.5	8.5	13.8	18.3	10.0	3.9	6.0	8.9	
G83.0	6.3	8.3	6.5	10.5	14.6	7.5	2.5	4.0	6.3	
G84.0	4.1	5.2	4.4	7.8	11.6	5.1	0.9	2.3	4.1	
G85.0	2.1	3.0	2.7	5.1	8.2	3.1	0.4	1.1	2.1	
G86.0	0.8	1.4	1.3	3.2	5.2	1.5	0.2	0.4	0.8	
G87.0	0.3	0.4	0.3	1.6	2.9	0.5	0.2	0.2	0.3	
G88.0	0.3	0.2	0.2	0.6	0.9	0.0	0.2	0.2	0.3	
G89.0	0.1	0.1	0.2	0.3	0.3	0.2	0.2	0.1	0.1	
G90.0	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	
G91.0	0.3	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.3	
G92.0	0.3	0.4	0.2	0.3	0.3	0.2	0.2	0.2	0.3	
G93.0	0.2	0.4	0.3	0.2	0.3	0.1	0.3	0.4	0.2	
G94.0	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.4	
G95.0	0.4	0.5	0.4	0.4	0.4	0.3	0.3	0.4	0.4	
G96.0	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.5	
G97.0	0.4	0.5	0.3	0.5	0.4	0.4	0.4	0.5	0.4	
G98.0	0.6	0.6	0.5	0.4	0.5	0.4	0.5	0.5	0.6	
G99.0	0.6	0.6	0.5	0.5	0.6	0.4	0.5	0.6	0.6	
G100.0	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.6	
G101.0	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.7	0.7	
G102.0	0.8	0.8	0.7	0.6	0.7	0.7	0.8	0.7	0.8	
G103.0	0.8	0.7	0.7	0.8	0.8	0.7	0.9	0.8	0.8	
G104.0	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.9	0.8	
G105.0	1.0	1.0	0.8	0.8	1.0	0.8	0.9	1.0	1.0	
G106.0	1.1	1.0	0.8	0.9	1.1	0.9	1.0	1.0	1.1	
G107.0	1.1	1.0	0.9	0.9	1.0	1.0	1.0	1.2	1.1	
G108.0	1.2	1.1	1.0	1.0	1.3	1.1	1.1	1.3	1.2	
G109.0	1.3	1.2	1.0	1.0	1.4	1.2	1.2	1.2	1.3	
G110.0	1.4	1.3	1.1	1.2	1.5	1.2	1.2	1.4	1.4	

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	1.4	1.3	1.2	1.3	1.6	1.3	1.4	1.4	1.4	
G112.0	1.5	1.5	1.3	1.3	1.7	1.4	1.5	1.5	1.5	
G113.0	1.6	1.5	1.3	1.4	1.8	1.3	1.4	1.5	1.6	
G114.0	1.7	1.5	1.5	1.6	2.0	1.5	1.5	1.6	1.7	
G115.0	1.8	1.6	1.6	1.6	2.1	1.6	1.4	1.7	1.8	
G116.0	1.9	1.7	1.6	1.7	2.2	1.7	1.7	1.7	1.9	
G117.0	2.0	1.9	1.7	1.8	2.4	1.7	1.7	1.8	2.0	
G118.0	2.1	1.9	1.8	1.9	2.6	1.8	1.9	1.8	2.1	
G119.0	2.2	2.0	1.9	1.8	2.7	1.8	1.9	2.0	2.2	
G120.0	2.3	2.0	1.9	2.0	2.9	1.9	1.9	1.9	2.3	
G121.0	2.4	2.2	2.0	2.3	3.0	2.0	1.9	2.0	2.4	
G122.0	2.6	2.2	2.2	2.2	3.3	2.0	2.1	2.0	2.6	
G123.0	2.7	2.3	2.4	2.4	3.4	2.1	2.2	2.1	2.7	
G124.0	2.8	2.4	2.3	2.5	3.5	2.2	2.3	2.3	2.8	
G125.0	3.0	2.6	2.6	2.5	3.6	2.2	2.3	2.2	3.0	
G126.0	3.0	2.7	2.8	2.6	3.9	2.3	2.4	2.4	3.0	
G127.0	3.1	2.8	2.8	2.8	4.0	2.4	2.6	2.4	3.1	
G128.0	3.2	2.9	2.9	3.0	4.3	2.5	2.5	2.5	3.2	
G129.0	3.3	3.0	3.1	3.0	4.3	2.5	2.7	2.5	3.3	
G130.0	3.5	3.0	3.2	3.1	4.6	2.7	2.7	2.7	3.5	
G131.0	3.7	3.1	3.4	3.2	4.7	2.7	2.8	2.8	3.7	
G132.0	3.7	3.2	3.5	3.2	4.9	2.8	3.0	2.8	3.7	
G133.0	3.9	3.2	3.6	3.3	5.1	3.0	3.0	2.9	3.9	
G134.0	3.9	3.3	3.7	3.4	5.2	3.0	3.0	3.1	3.9	
G135.0	4.0	3.3	3.9	3.4	5.4	3.0	3.3	3.1	4.0	
G136.0	4.2	3.5	3.9	3.5	5.5	3.1	3.3	3.2	4.2	
G137.0	4.2	3.5	4.1	3.7	5.7	3.4	3.3	3.3	4.2	
G138.0	4.3	3.7	4.2	3.8	5.9	3.5	3.5	3.5	4.3	
G139.0	4.4	3.7	4.4	3.9	6.0	3.5	3.5	3.5	4.4	
G140.0	4.4	3.8	4.4	4.0	6.2	3.5	3.7	3.7	4.4	
G141.0	4.4	3.9	4.5	4.1	6.3	3.7	3.8	3.8	4.4	
G142.0	4.5	4.0	4.6	4.1	6.4	3.7	3.8	3.8	4.5	
G143.0	4.7	4.0	4.7	4.2	6.6	3.8	4.0	4.0	4.7	
G144.0	4.7	4.2	4.7	4.4	6.7	3.9	4.1	4.0	4.7	
G145.0	4.7	4.2	4.8	4.4	6.9	4.0	4.1	4.2	4.7	
G146.0	4.8	4.3	4.9	4.6	6.9	4.1	4.2	4.3	4.8	
G147.0	4.8	4.4	4.9	4.6	7.1	4.2	4.2	4.3	4.8	

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 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	4.8	4.5	5.0	4.8	7.2	4.2	4.4	4.5	4.8	
G149.0	4.9	4.6	5.0	4.8	7.4	4.3	4.4	4.6	4.9	
G150.0	4.9	4.6	5.2	5.0	7.4	4.4	4.5	4.6	4.9	
G151.0	4.9	4.7	5.2	5.0	7.5	4.5	4.5	4.7	4.9	
G152.0	4.9	4.8	5.3	5.1	7.7	4.5	4.7	4.7	4.9	
G153.0	5.0	5.0	5.2	5.1	7.8	4.6	4.6	4.8	5.0	
G154.0	5.2	4.9	5.3	5.2	7.8	4.8	4.7	5.0	5.2	
G155.0	5.2	5.0	5.4	5.2	8.0	4.8	4.8	5.0	5.2	
G156.0	5.2	5.1	5.5	5.2	8.2	4.8	4.8	5.1	5.2	
G157.0	5.2	5.2	5.6	5.4	8.3	4.9	5.0	5.2	5.2	
G158.0	5.3	5.2	5.6	5.3	8.3	5.0	5.0	5.3	5.3	
G159.0	5.3	5.3	5.7	5.4	8.4	5.1	5.2	5.3	5.3	
G160.0	5.4	5.3	5.6	5.4	8.5	5.2	5.1	5.4	5.4	
G161.0	5.4	5.4	5.7	5.5	8.6	5.2	5.2	5.4	5.4	
G162.0	5.5	5.5	5.7	5.5	8.7	5.2	5.1	5.4	5.5	
G163.0	5.6	5.4	5.8	5.6	8.6	5.3	5.1	5.4	5.6	
G164.0	5.7	5.4	5.7	5.6	8.5	5.3	5.1	5.4	5.7	
G165.0	5.6	5.5	5.9	5.7	8.5	5.5	5.0	5.4	5.6	
G166.0	5.6	5.6	5.8	5.7	8.5	5.3	4.9	5.4	5.6	
G167.0	5.7	5.5	5.9	5.7	8.5	5.4	4.9	5.4	5.7	
G168.0	5.7	5.5	5.9	5.8	8.3	5.3	4.8	5.3	5.7	
G169.0	5.6	5.6	5.8	5.8	8.4	5.3	4.9	5.2	5.6	
G170.0	5.8	5.7	5.9	5.8	8.5	5.4	4.9	5.4	5.8	
G171.0	5.8	5.7	5.9	5.8	8.5	5.3	4.8	5.3	5.8	
G172.0	5.9	5.7	5.9	5.8	8.5	5.2	4.9	5.2	5.9	
G173.0	5.9	5.7	5.9	5.8	8.6	5.1	4.7	5.0	5.9	
G174.0	5.9	5.8	6.0	5.9	8.6	5.1	4.8	5.1	5.9	
G175.0	5.9	5.8	5.9	5.9	8.7	5.1	4.9	5.2	5.9	
G176.0	5.9	5.8	6.1	5.9	8.8	5.1	5.0	5.2	5.9	
G177.0	5.9	5.8	6.0	5.9	8.9	5.1	5.2	5.3	5.9	
G178.0	5.8	5.8	6.1	5.9	8.9	5.2	5.3	5.4	5.8	
G179.0	5.8	5.8	6.1	5.9	9.3	5.3	5.4	5.4	5.8	
G180.0	5.4	5.6	5.8	5.7	9.9	5.6	5.8	5.7	5.4	

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: