

Report No.:

Test Time: 2015-09-07 15:30

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MR0730KCWFLBWU Voltage: 12.3 V

Current: 0.662 A

Power: 7.40 W

Power Factor: 0.911

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 480.8 lm

Measurement Flux: 480.8 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(10%,25%,50%,75%): H84.6,H71.4,H55.2,H34.3

Vertical Diffuse Angle(10%,25%,50%,75%): V84.8,V71.4,V55,V34.2

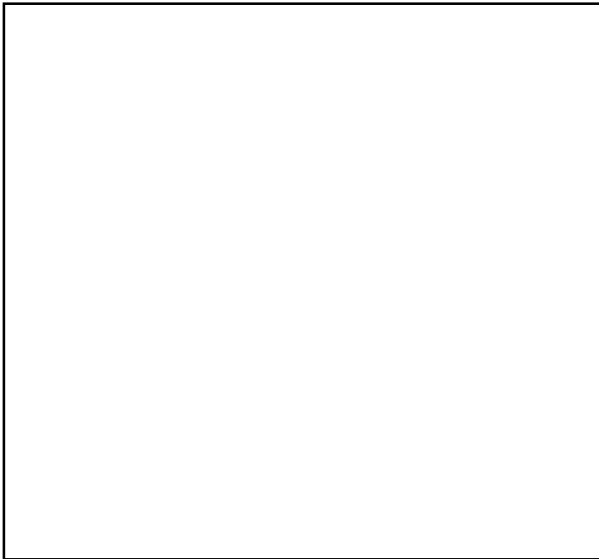
Luminaire Efficacy Rating (LER): 65

Central Intensity: 579.7 cd

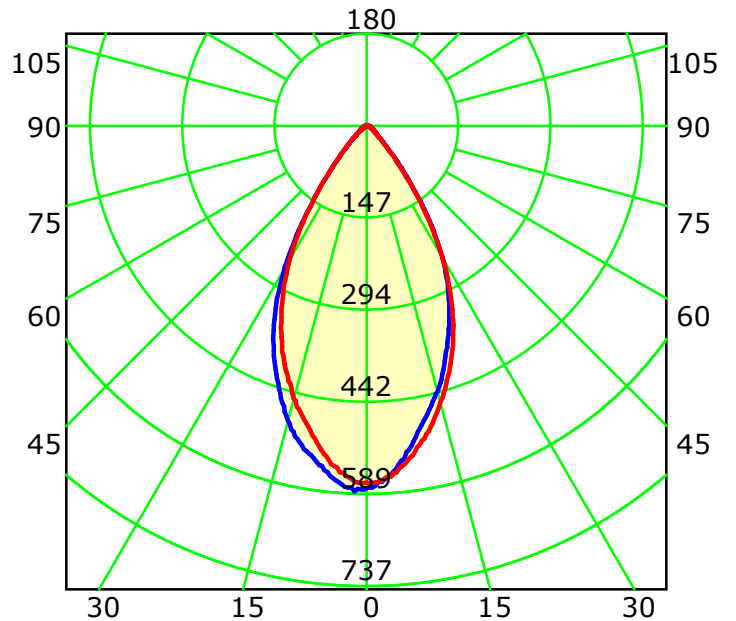
Max. Intensity: 585.25 cd

Pos of Max. Intensity: H180 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 55.1° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 45.0

Gamma Plane (°):0.0-90.0:0.5

Test Lab:

Test Device: GPM-1600L

Test Type: TYPE C

Distance: 8.177 m

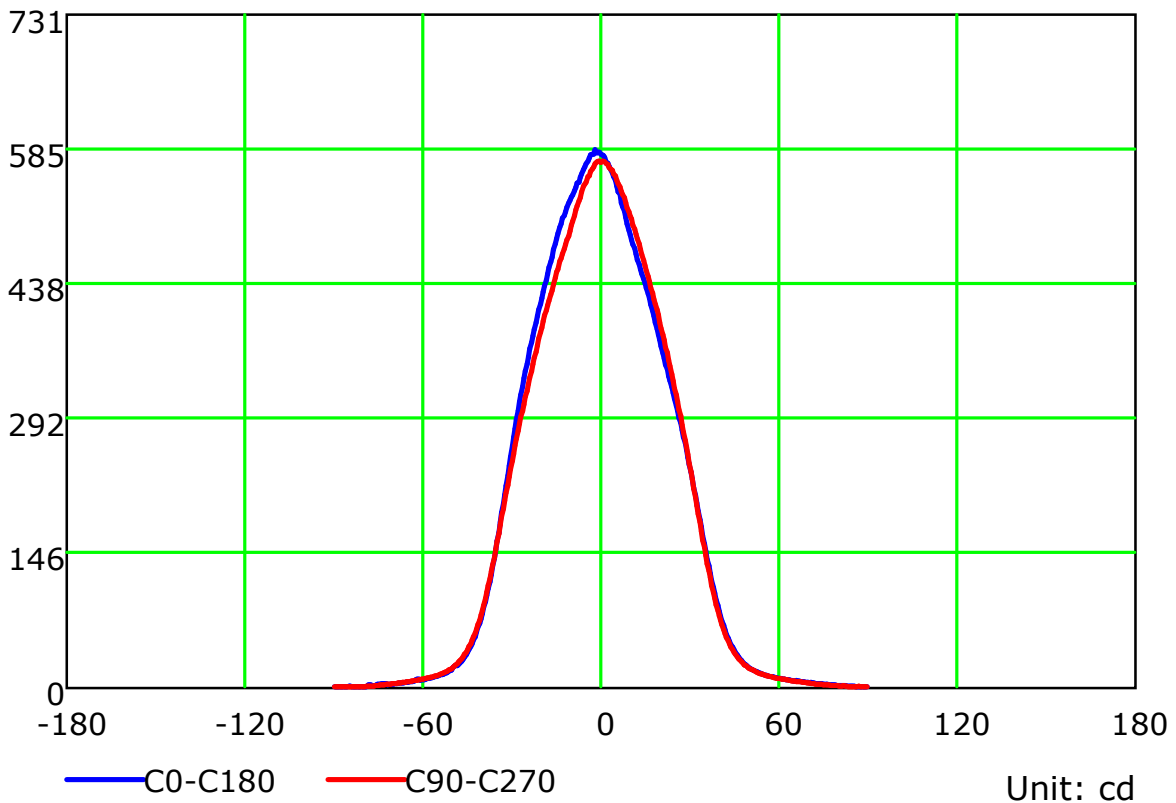
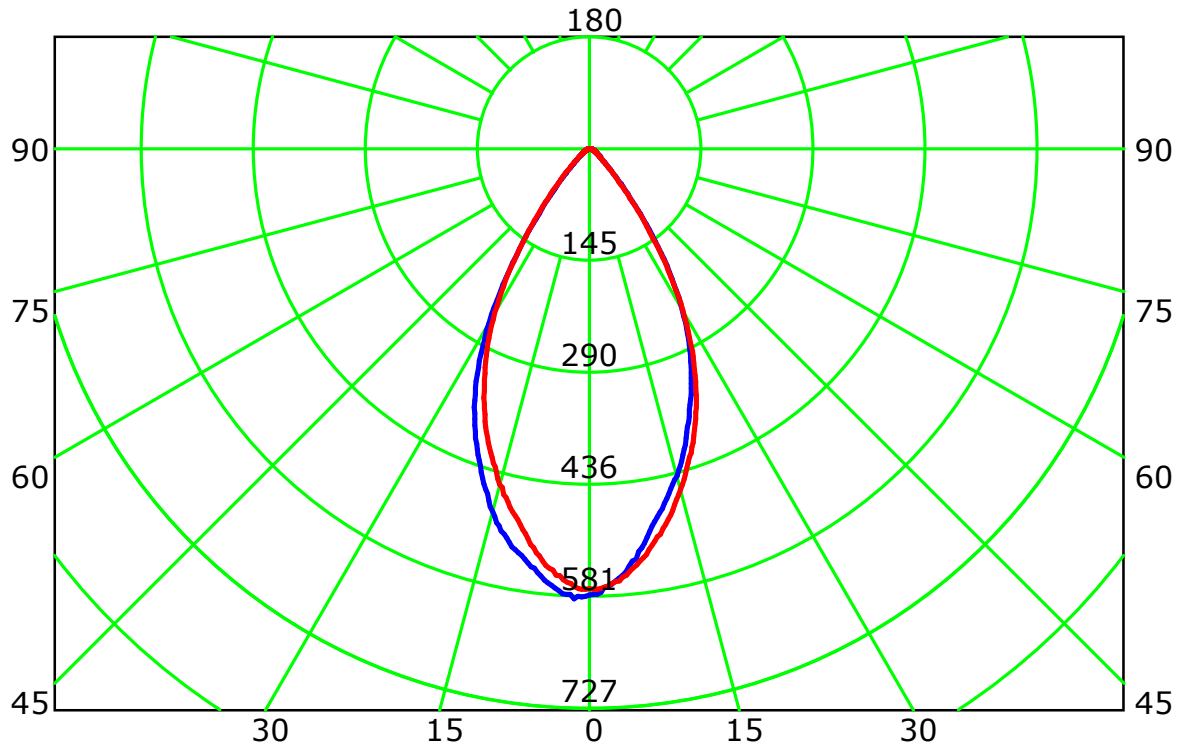
Temperature:

Humidity:

Operator:

Inspector:

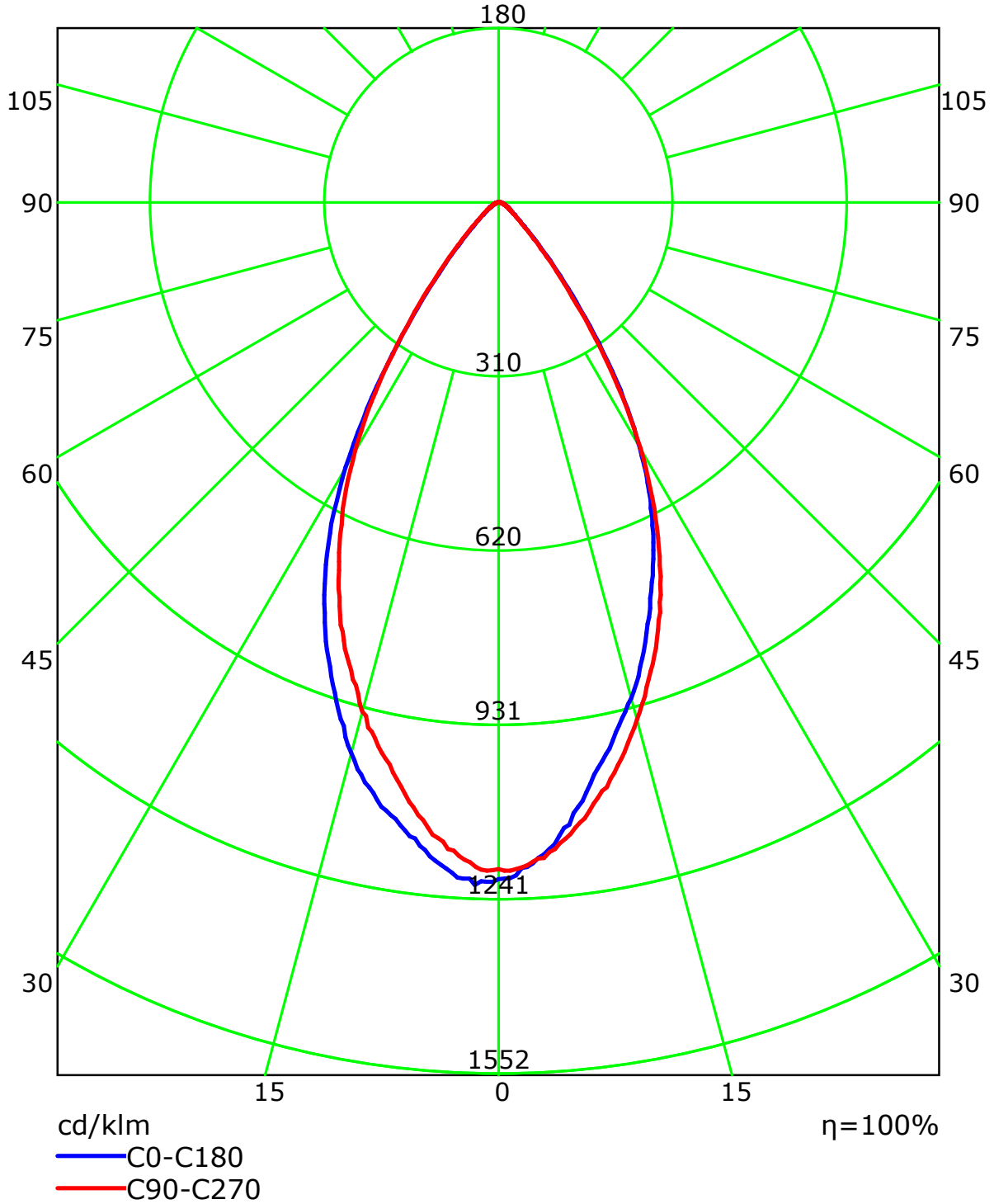
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



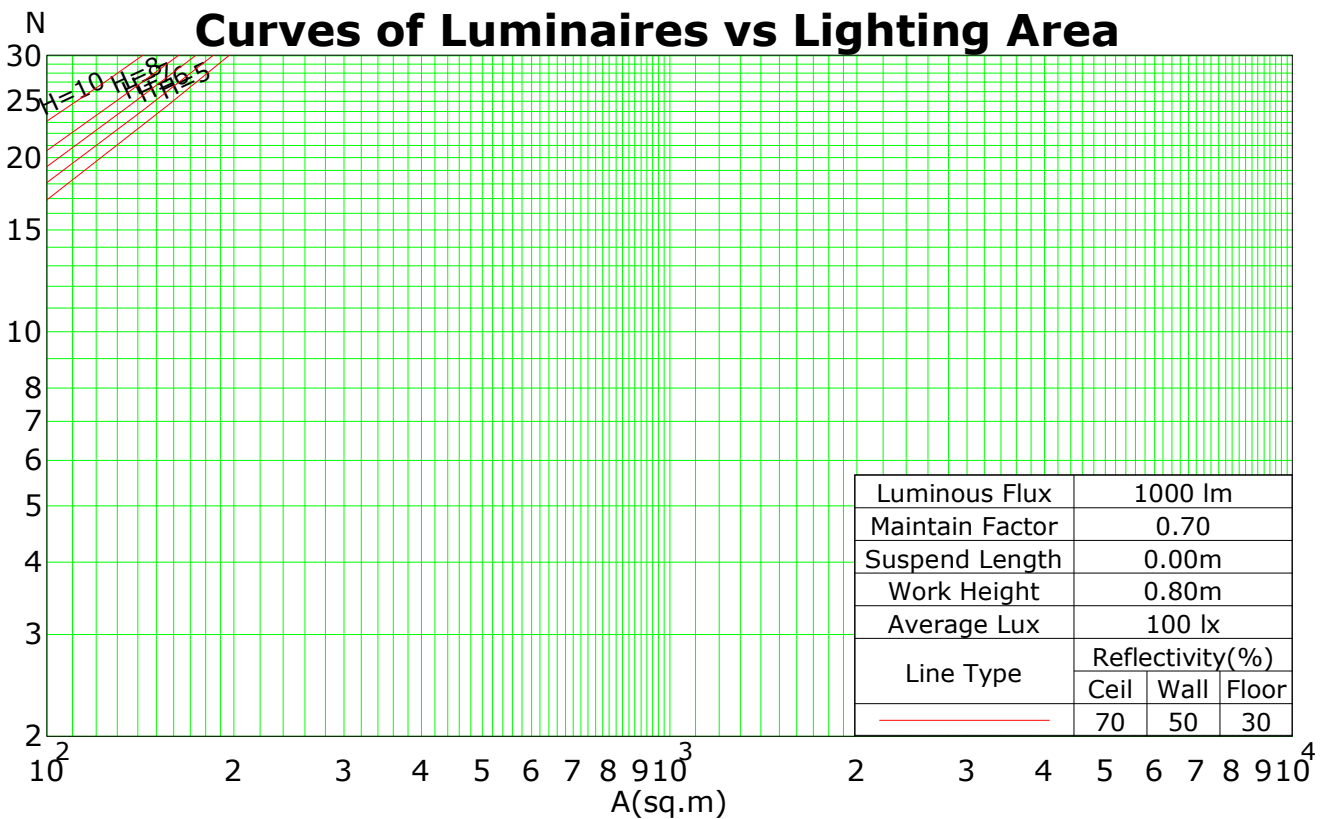
C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 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
RCCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	95	105	101	97	93	97	94	91	94	92	89	92	89	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	83	81	79
4	96	89	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	65	59	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49

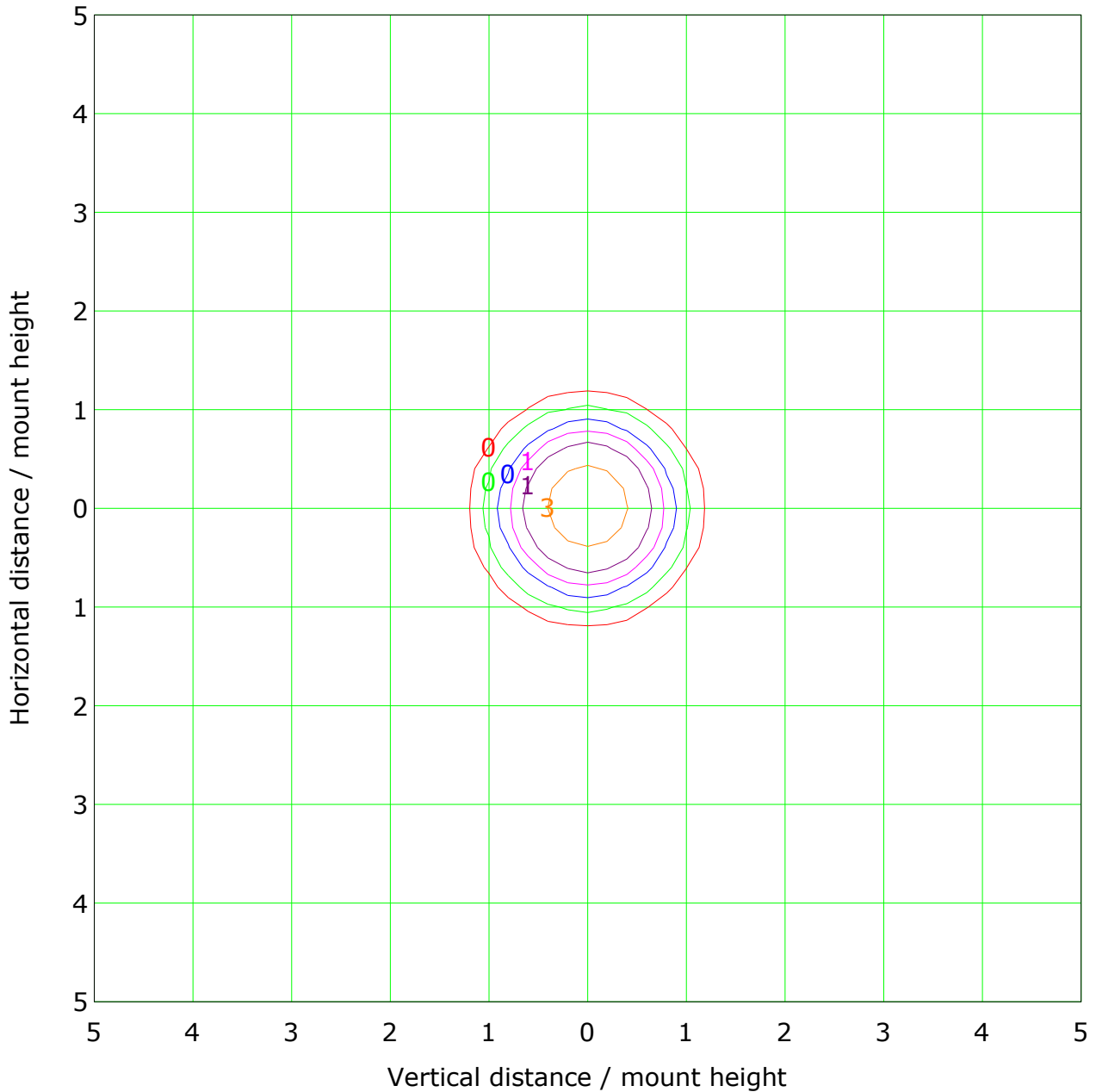
Spacing Criteria (0-180): 0.83
 Spacing Criteria (90-270): 0.82
 Spacing Criteria (Diagonal): 0.85



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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 Inspector:

IsoLux Plot

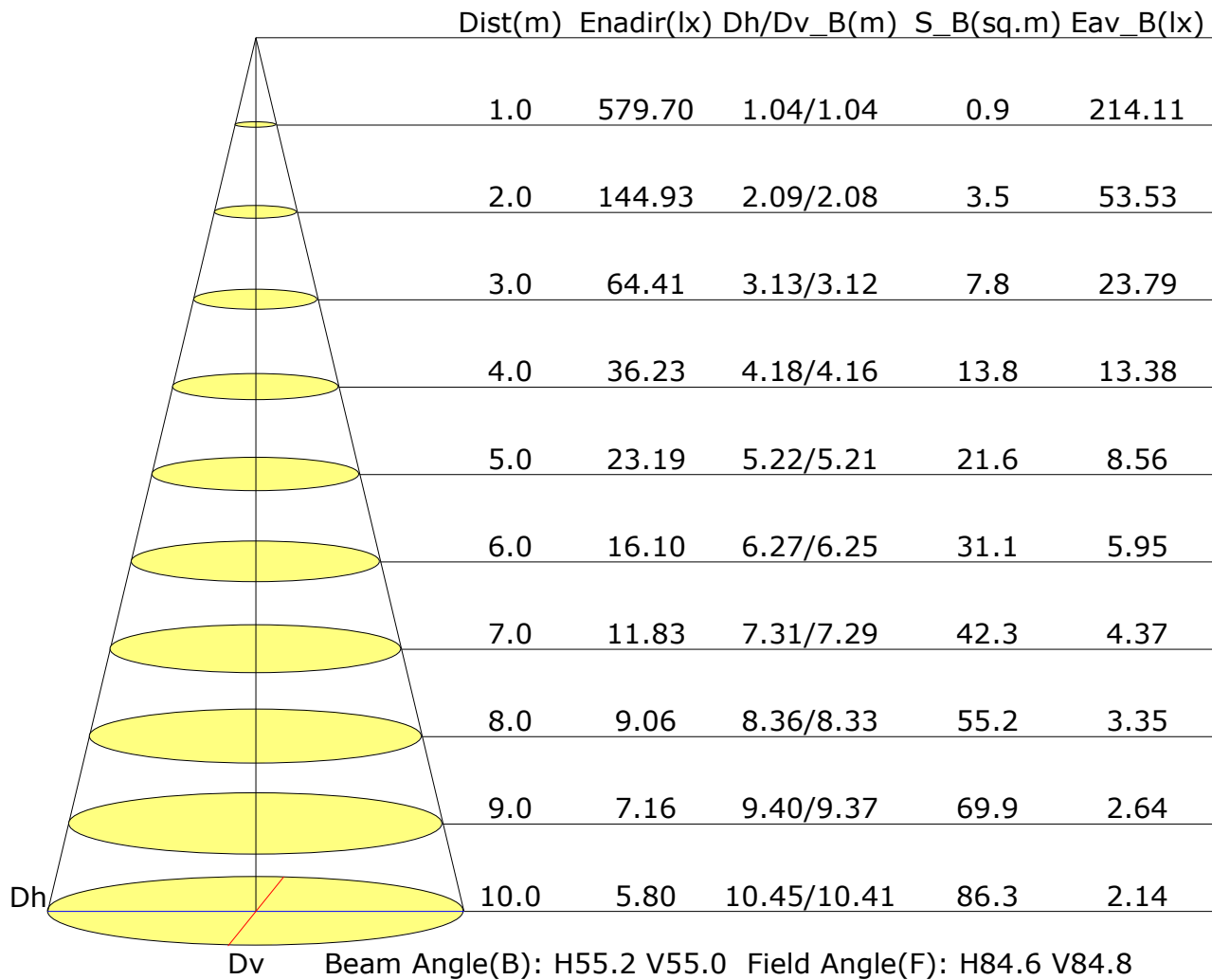


Mounting Height: 10.0m		Max Lux(100%): 5.8 lx	
— (1%):	0.1 lx	— (2%):	0.1 lx
— (5%):	0.3 lx	— (10%):	0.6 lx
— (20%):	1.2 lx	— (50%):	2.9 lx
— (100%):	5.8 lx		

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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 Inspector:

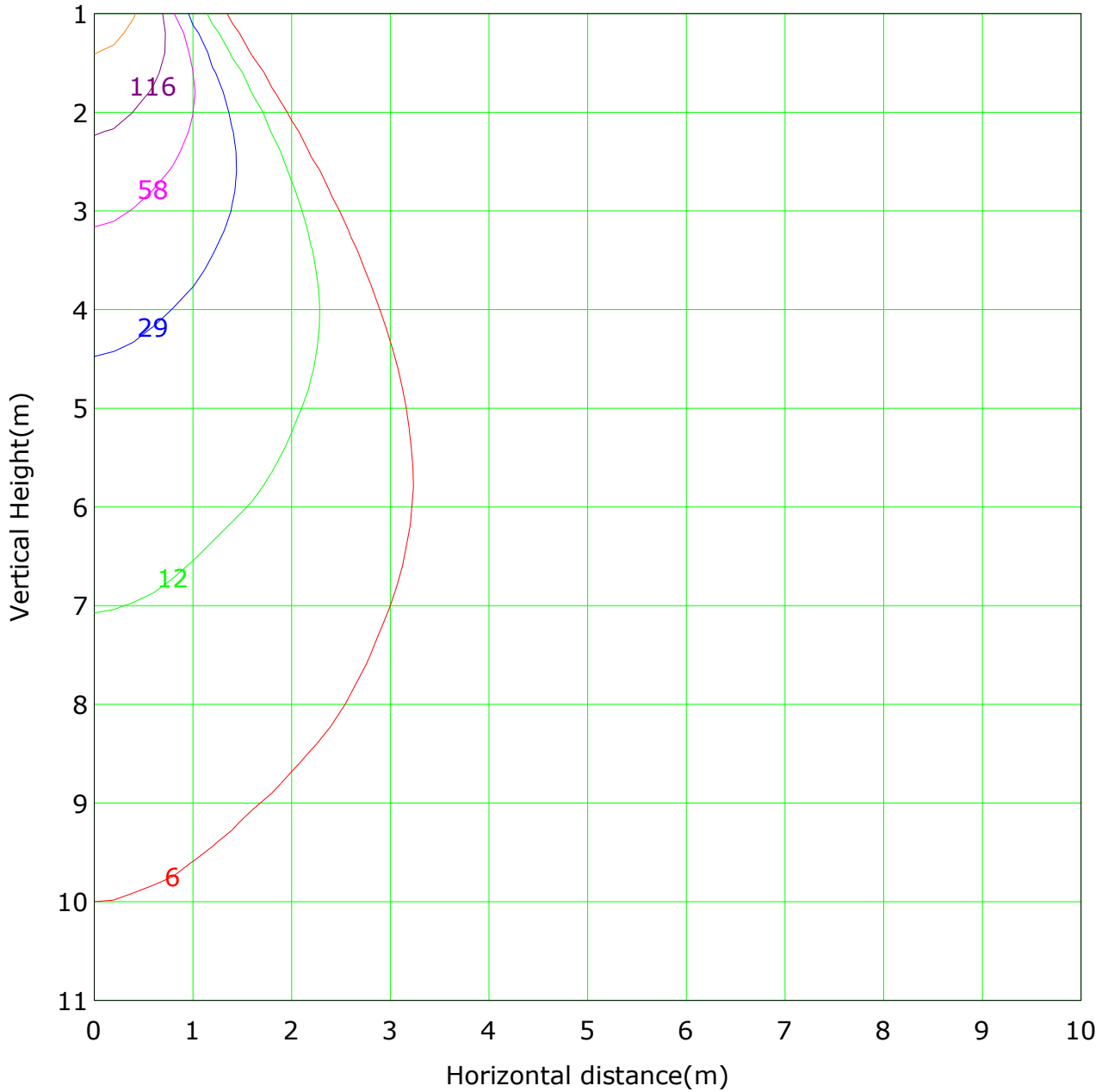
Illuminance at a Distance



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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 Inspector:

Vertical IsoLux Plot

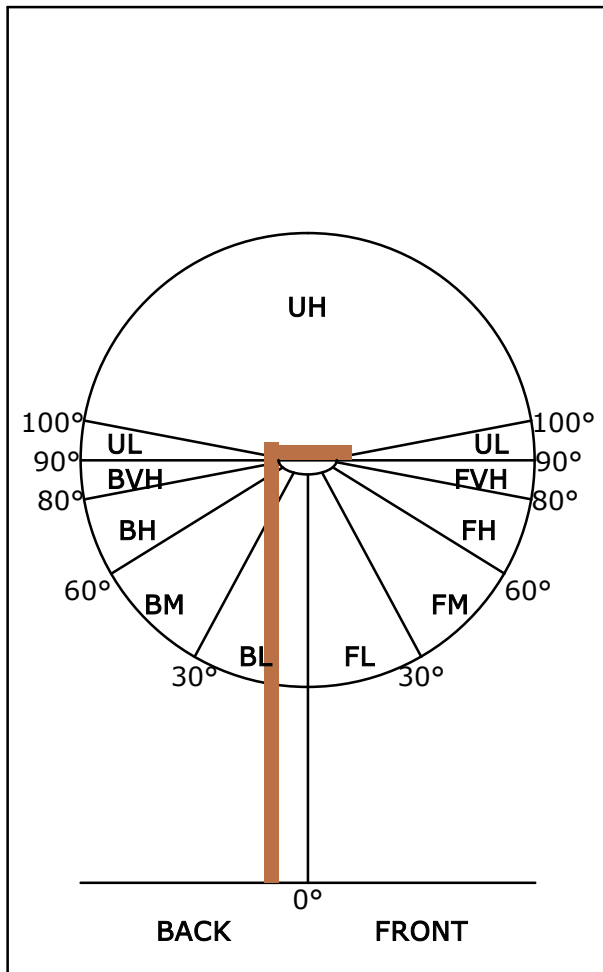


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 579.7 lx
— (1%): 5.8 lx	— (2%): 11.6 lx	
— (5%): 29.0 lx	— (10%): 58.0 lx	
— (20%): 115.9 lx	— (50%): 289.9 lx	
— (100%): 579.7 lx		

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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	236	49.1
FL (0°-30°)	159	33.2
FM (30°-60°)	72	14.9
FH (60°-80°)	5	1.0
FVH (80°-90°)	0	0.1
BACK LIGHT	245	50.9
BL (0°-30°)	169	35.1
BM (30°-60°)	71	14.9
BH (60°-80°)	4	0.9
BVH (80°-90°)	0	0.0
UP LIGHT	0	0.0
UL (90°-100°)	0	0.0
UH (100°-180°)	0	0.0
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U0 G0

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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-0.5	575.0	0.1	0.1	0.03	0.03
0.5-1.0	574.8	0.4	0.6	0.09	0.11
1.0-1.5	574.2	0.7	1.2	0.14	0.26
1.5-2.0	573.0	1.0	2.2	0.20	0.46
2.0-2.5	570.9	1.2	3.4	0.26	0.71
2.5-3.0	568.8	1.5	4.9	0.31	1.02
3.0-3.5	566.5	1.8	6.7	0.37	1.39
3.5-4.0	563.8	2.0	8.7	0.42	1.81
4.0-4.5	560.9	2.3	11.0	0.47	2.28
4.5-5.0	557.8	2.5	13.5	0.53	2.81
5.0-5.5	553.8	2.8	16.3	0.58	3.39
5.5-6.0	549.6	3.0	19.3	0.63	4.02
6.0-6.5	545.7	3.3	22.6	0.68	4.69
6.5-7.0	541.0	3.5	26.1	0.73	5.42
7.0-7.5	536.0	3.7	29.8	0.77	6.19
7.5-8.0	531.6	3.9	33.7	0.82	7.01
8.0-8.5	527.0	4.1	37.8	0.86	7.87
8.5-9.0	521.7	4.4	42.2	0.91	8.78
9.0-9.5	516.6	4.6	46.7	0.95	9.72
9.5-10.0	511.8	4.8	51.5	0.99	10.71
10.0-10.5	507.3	4.9	56.5	1.03	11.74
10.5-11.0	502.5	5.1	61.6	1.07	12.81
11.0-11.5	497.5	5.3	66.9	1.11	13.92
11.5-12.0	492.6	5.5	72.4	1.14	15.06
12.0-12.5	487.6	5.7	78.1	1.18	16.24
12.5-13.0	482.3	5.8	83.9	1.21	17.45
13.0-13.5	476.9	6.0	89.9	1.25	18.70
13.5-14.0	471.8	6.1	96.1	1.28	19.98
14.0-14.5	466.4	6.3	102.4	1.31	21.29
14.5-15.0	460.7	6.4	108.8	1.34	22.63
15.0-15.5	455.5	6.6	115.4	1.37	23.99
15.5-16.0	449.6	6.7	122.1	1.39	25.38
16.0-16.5	443.4	6.8	128.9	1.41	26.80
16.5-17.0	437.5	6.9	135.8	1.44	28.24
17.0-17.5	431.5	7.0	142.8	1.46	29.70
17.5-18.0	425.2	7.1	149.9	1.48	31.17

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 Test Lab:
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Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
18.0-18.5	419.1	7.2	157.1	1.50	32.67
18.5-19.0	413.0	7.3	164.4	1.51	34.18
19.0-19.5	406.5	7.3	171.7	1.53	35.71
19.5-20.0	400.0	7.4	179.1	1.54	37.25
20.0-20.5	393.8	7.5	186.6	1.55	38.81
20.5-21.0	387.3	7.5	194.1	1.56	40.37
21.0-21.5	380.8	7.6	201.7	1.57	41.95
21.5-22.0	373.7	7.6	209.3	1.58	43.53
22.0-22.5	366.9	7.6	216.9	1.58	45.11
22.5-23.0	360.3	7.6	224.5	1.59	46.70
23.0-23.5	353.3	7.6	232.2	1.59	48.29
23.5-24.0	346.3	7.6	239.8	1.59	49.88
24.0-24.5	339.3	7.6	247.5	1.59	51.47
24.5-25.0	332.3	7.6	255.1	1.59	53.06
25.0-25.5	325.0	7.6	262.7	1.58	54.64
25.5-26.0	317.6	7.6	270.3	1.57	56.21
26.0-26.5	310.3	7.5	277.8	1.57	57.78
26.5-27.0	302.9	7.5	285.3	1.55	59.33
27.0-27.5	295.4	7.4	292.7	1.54	60.87
27.5-28.0	287.5	7.3	300.0	1.53	62.40
28.0-28.5	279.5	7.3	307.3	1.51	63.91
28.5-29.0	271.4	7.2	314.4	1.49	65.40
29.0-29.5	262.9	7.0	321.5	1.46	66.86
29.5-30.0	254.1	6.9	328.4	1.44	68.30
30.0-30.5	245.1	6.8	335.2	1.41	69.71
30.5-31.0	235.9	6.6	341.8	1.38	71.08
31.0-31.5	226.8	6.5	348.2	1.34	72.42
31.5-32.0	217.4	6.3	354.5	1.30	73.73
32.0-32.5	208.2	6.1	360.6	1.27	74.99
32.5-33.0	199.0	5.9	366.5	1.23	76.22
33.0-33.5	189.7	5.7	372.2	1.19	77.41
33.5-34.0	180.2	5.5	377.7	1.14	78.55
34.0-34.5	170.7	5.3	383.0	1.10	79.65
34.5-35.0	161.6	5.1	388.0	1.05	80.70
35.0-35.5	152.9	4.8	392.8	1.01	81.70
35.5-36.0	143.9	4.6	397.5	0.96	82.66

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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-36.5	135.3	4.4	401.8	0.91	83.57
36.5-37.0	127.3	4.2	406.0	0.87	84.44
37.0-37.5	119.4	4.0	410.0	0.82	85.27
37.5-38.0	111.6	3.7	413.7	0.78	86.05
38.0-38.5	104.2	3.5	417.3	0.74	86.78
38.5-39.0	97.3	3.3	420.6	0.69	87.48
39.0-39.5	90.6	3.1	423.7	0.65	88.13
39.5-40.0	84.3	3.0	426.7	0.61	88.74
40.0-40.5	78.4	2.8	429.5	0.58	89.32
40.5-41.0	73.1	2.6	432.1	0.54	89.87
41.0-41.5	68.1	2.5	434.6	0.51	90.38
41.5-42.0	63.3	2.3	436.9	0.48	90.86
42.0-42.5	58.6	2.2	439.0	0.45	91.31
42.5-43.0	54.4	2.0	441.1	0.42	91.73
43.0-43.5	50.6	1.9	443.0	0.40	92.12
43.5-44.0	46.9	1.8	444.7	0.37	92.49
44.0-44.5	43.6	1.7	446.4	0.35	92.84
44.5-45.0	40.6	1.6	448.0	0.33	93.17
45.0-45.5	37.8	1.5	449.4	0.31	93.47
45.5-46.0	35.3	1.4	450.8	0.29	93.76
46.0-46.5	33.0	1.3	452.1	0.27	94.03
46.5-47.0	30.8	1.2	453.4	0.26	94.29
47.0-47.5	28.9	1.2	454.5	0.24	94.53
47.5-48.0	27.0	1.1	455.6	0.23	94.76
48.0-48.5	25.3	1.0	456.7	0.21	94.97
48.5-49.0	23.9	1.0	457.6	0.20	95.18
49.0-49.5	22.7	0.9	458.6	0.20	95.37
49.5-50.0	21.4	0.9	459.5	0.19	95.56
50.0-50.5	20.2	0.8	460.3	0.18	95.74
50.5-51.0	19.1	0.8	461.1	0.17	95.91
51.0-51.5	18.3	0.8	461.9	0.16	96.07
51.5-52.0	17.4	0.7	462.7	0.16	96.22
52.0-52.5	16.6	0.7	463.4	0.15	96.37
52.5-53.0	15.9	0.7	464.1	0.14	96.52
53.0-53.5	15.1	0.7	464.7	0.14	96.66
53.5-54.0	14.5	0.6	465.4	0.13	96.79

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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
54.0-54.5	13.9	0.6	466.0	0.13	96.92
54.5-55.0	13.4	0.6	466.6	0.12	97.04
55.0-55.5	12.8	0.6	467.2	0.12	97.16
55.5-56.0	12.3	0.6	467.7	0.12	97.28
56.0-56.5	11.9	0.5	468.3	0.11	97.39
56.5-57.0	11.4	0.5	468.8	0.11	97.50
57.0-57.5	11.0	0.5	469.3	0.11	97.61
57.5-58.0	10.6	0.5	469.8	0.10	97.71
58.0-58.5	10.2	0.5	470.3	0.10	97.81
58.5-59.0	9.9	0.5	470.7	0.10	97.90
59.0-59.5	9.5	0.4	471.2	0.09	98.00
59.5-60.0	9.1	0.4	471.6	0.09	98.09
60.0-60.5	8.8	0.4	472.0	0.09	98.17
60.5-61.0	8.5	0.4	472.4	0.08	98.26
61.0-61.5	8.3	0.4	472.8	0.08	98.34
61.5-62.0	8.1	0.4	473.2	0.08	98.42
62.0-62.5	7.8	0.4	473.6	0.08	98.50
62.5-63.0	7.4	0.4	474.0	0.08	98.58
63.0-63.5	7.1	0.3	474.3	0.07	98.65
63.5-64.0	6.8	0.3	474.7	0.07	98.72
64.0-64.5	6.5	0.3	475.0	0.07	98.78
64.5-65.0	6.2	0.3	475.3	0.06	98.85
65.0-65.5	6.0	0.3	475.6	0.06	98.91
65.5-66.0	5.8	0.3	475.9	0.06	98.97
66.0-66.5	5.5	0.3	476.2	0.06	99.03
66.5-67.0	5.3	0.3	476.4	0.06	99.09
67.0-67.5	5.2	0.3	476.7	0.05	99.14
67.5-68.0	5.0	0.3	476.9	0.05	99.19
68.0-68.5	4.8	0.2	477.2	0.05	99.24
68.5-69.0	4.6	0.2	477.4	0.05	99.29
69.0-69.5	4.3	0.2	477.6	0.05	99.34
69.5-70.0	4.1	0.2	477.8	0.04	99.38
70.0-70.5	3.9	0.2	478.1	0.04	99.42
70.5-71.0	3.8	0.2	478.2	0.04	99.46
71.0-71.5	3.6	0.2	478.4	0.04	99.50
71.5-72.0	3.3	0.2	478.6	0.04	99.54

C Plane (°):0.0-360.0: 45.0
 Test Lab:
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 Temperature:
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Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-72.5	3.2	0.2	478.8	0.04	99.57
72.5-73.0	3.2	0.2	478.9	0.03	99.61
73.0-73.5	3.0	0.2	479.1	0.03	99.64
73.5-74.0	2.8	0.1	479.2	0.03	99.67
74.0-74.5	2.7	0.1	479.4	0.03	99.70
74.5-75.0	2.6	0.1	479.5	0.03	99.73
75.0-75.5	2.4	0.1	479.6	0.03	99.75
75.5-76.0	2.1	0.1	479.8	0.02	99.78
76.0-76.5	1.9	0.1	479.9	0.02	99.80
76.5-77.0	1.7	0.1	480.0	0.02	99.82
77.0-77.5	1.7	0.1	480.0	0.02	99.84
77.5-78.0	1.7	0.1	480.1	0.02	99.86
78.0-78.5	1.5	0.1	480.2	0.02	99.87
78.5-79.0	1.3	0.1	480.3	0.01	99.89
79.0-79.5	1.1	0.1	480.3	0.01	99.90
79.5-80.0	1.0	0.1	480.4	0.01	99.91
80.0-80.5	0.9	0.0	480.4	0.01	99.92
80.5-81.0	0.8	0.0	480.5	0.01	99.93
81.0-81.5	0.7	0.0	480.5	0.01	99.94
81.5-82.0	0.7	0.0	480.6	0.01	99.95
82.0-82.5	0.6	0.0	480.6	0.01	99.95
82.5-83.0	0.5	0.0	480.6	0.01	99.96
83.0-83.5	0.5	0.0	480.7	0.01	99.96
83.5-84.0	0.5	0.0	480.7	0.01	99.97
84.0-84.5	0.5	0.0	480.7	0.01	99.97
84.5-85.0	0.4	0.0	480.7	0.00	99.98
85.0-85.5	0.3	0.0	480.7	0.00	99.98
85.5-86.0	0.2	0.0	480.8	0.00	99.99
86.0-86.5	0.2	0.0	480.8	0.00	99.99
86.5-87.0	0.2	0.0	480.8	0.00	99.99
87.0-87.5	0.1	0.0	480.8	0.00	99.99
87.5-88.0	0.1	0.0	480.8	0.00	99.99
88.0-88.5	0.2	0.0	480.8	0.00	100.00
88.5-89.0	0.1	0.0	480.8	0.00	100.00
89.0-89.5	0.1	0.0	480.8	0.00	100.00
89.5-90.0	0.2	0.0	480.8	0.00	100.00

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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 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	579.7	576.7	571.2	571.7	579.7	576.7	571.2	571.7	579.7	
G0.5	579.4	576.4	572.7	572.3	582.0	575.6	572.1	570.2	579.4	
G1.0	578.9	573.5	572.4	571.6	582.1	577.2	572.4	567.8	578.9	
G1.5	576.6	572.1	571.4	574.8	581.6	576.1	571.6	566.4	576.6	
G2.0	570.6	570.8	569.9	571.6	585.3	576.0	569.8	563.2	570.6	
G2.5	570.0	567.3	568.6	571.7	580.0	573.0	565.8	561.1	570.0	
G3.0	566.8	566.3	565.6	569.8	580.2	572.8	563.8	557.4	566.8	
G3.5	562.7	561.4	563.1	568.5	579.6	570.8	561.0	554.3	562.7	
G4.0	559.6	559.1	562.8	566.5	575.6	568.8	556.7	550.3	559.6	
G4.5	555.5	556.9	558.4	562.8	572.2	567.0	555.8	547.1	555.5	
G5.0	551.8	553.4	556.2	563.2	569.7	562.9	549.6	541.6	551.8	
G5.5	545.0	547.9	551.4	557.3	566.4	558.5	547.1	538.6	545.0	
G6.0	538.6	545.1	548.1	551.7	563.5	556.2	544.8	533.9	538.6	
G6.5	536.6	539.9	544.6	548.2	558.3	554.5	539.0	528.1	536.6	
G7.0	527.1	536.7	539.7	544.7	555.3	549.0	532.8	521.8	527.1	
G7.5	522.8	532.3	536.1	539.7	549.4	543.1	529.3	516.5	522.8	
G8.0	517.7	528.8	532.7	536.5	548.6	539.2	523.4	509.7	517.7	
G8.5	511.0	521.6	527.0	531.9	543.9	535.3	519.6	505.7	511.0	
G9.0	504.1	516.1	521.5	527.7	540.1	530.5	513.0	499.0	504.1	
G9.5	497.1	512.7	517.3	524.1	535.4	526.4	507.1	493.0	497.1	
G10.0	492.0	506.1	512.2	521.7	533.0	521.3	502.4	486.8	492.0	
G10.5	487.0	503.5	509.5	515.9	529.9	517.4	496.6	481.8	487.0	
G11.0	481.6	497.1	503.0	511.7	527.3	511.1	490.7	476.4	481.6	
G11.5	477.6	490.0	498.7	508.4	522.3	506.2	486.5	470.8	477.6	
G12.0	471.3	484.2	492.7	504.1	517.5	504.3	482.0	465.1	471.3	
G12.5	465.2	480.8	487.8	499.0	513.3	497.3	477.0	459.1	465.2	
G13.0	460.0	471.1	482.6	494.6	510.0	492.9	471.1	455.2	460.0	
G13.5	454.4	465.9	476.1	488.4	504.3	488.1	466.3	449.4	454.4	
G14.0	449.6	460.9	470.3	483.7	500.4	482.2	463.5	445.3	449.6	
G14.5	444.0	452.8	464.6	478.5	493.6	477.9	454.4	440.2	444.0	
G15.0	440.2	446.3	458.8	475.2	488.2	471.9	451.9	433.4	440.2	
G15.5	434.6	440.1	453.1	470.1	482.8	467.2	445.2	428.6	434.6	
G16.0	428.4	435.1	446.7	463.3	476.5	461.6	438.0	422.6	428.4	
G16.5	423.4	426.6	441.3	458.0	467.9	456.0	431.4	418.2	423.4	
G17.0	416.0	420.5	434.6	452.3	463.1	450.7	427.5	412.1	416.0	
G17.5	409.5	414.5	428.5	445.6	456.5	444.7	420.4	407.0	409.5	
G18.0	403.9	406.3	422.0	439.1	449.9	439.1	415.5	400.9	403.9	

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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 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	
G18.5	396.6	400.7	416.7	433.4	442.8	433.3	410.0	395.9	396.6	
G19.0	390.0	394.8	410.5	426.7	436.5	426.2	404.4	390.4	390.0	
G19.5	383.3	386.9	404.9	418.9	430.1	418.8	397.9	383.5	383.3	
G20.0	378.1	382.6	397.1	412.8	423.2	413.5	391.5	377.3	378.1	
G20.5	371.3	375.7	390.4	406.8	417.2	407.2	386.4	370.2	371.3	
G21.0	363.4	369.5	383.5	400.8	410.6	400.4	379.4	364.8	363.4	
G21.5	357.9	363.7	377.8	393.5	404.1	393.7	371.5	357.9	357.9	
G22.0	351.0	355.9	369.5	385.9	396.6	385.9	364.6	350.5	351.0	
G22.5	345.9	350.3	363.8	379.5	389.4	379.8	358.4	343.9	345.9	
G23.0	338.4	344.4	355.4	371.9	382.0	373.0	351.4	337.1	338.4	
G23.5	333.1	338.0	349.4	364.5	375.2	364.8	343.5	330.5	333.1	
G24.0	326.3	332.3	340.3	357.4	368.0	356.4	336.9	324.7	326.3	
G24.5	320.2	326.1	333.3	350.4	359.4	349.3	329.7	318.3	320.2	
G25.0	313.9	321.0	325.3	342.5	351.6	342.4	322.5	311.5	313.9	
G25.5	306.5	313.3	318.3	335.2	344.0	332.5	315.9	303.8	306.5	
G26.0	300.6	308.0	310.6	328.4	336.0	324.7	307.5	296.9	300.6	
G26.5	292.9	301.9	301.9	319.3	327.0	317.1	300.5	291.4	292.9	
G27.0	287.1	294.6	294.9	311.4	318.3	309.8	294.6	284.1	287.1	
G27.5	279.7	287.5	285.6	304.1	310.7	301.4	287.0	276.0	279.7	
G28.0	272.1	280.8	277.3	295.8	300.9	292.7	278.8	269.8	272.1	
G28.5	265.9	273.2	268.8	286.5	290.8	284.6	270.2	263.1	265.9	
G29.0	258.3	266.7	260.9	277.2	281.1	275.4	262.8	256.2	258.3	
G29.5	249.7	258.0	253.1	268.4	272.2	265.1	254.2	246.5	249.7	
G30.0	242.0	250.1	243.5	258.9	262.5	255.5	246.4	239.1	242.0	
G30.5	233.5	242.2	234.3	248.7	250.8	245.5	237.2	231.4	233.5	
G31.0	226.1	233.4	226.4	237.7	240.7	236.2	228.9	222.3	226.1	
G31.5	216.9	224.8	216.2	228.6	230.5	226.1	220.0	213.4	216.9	
G32.0	208.6	215.5	206.8	218.7	219.2	216.0	211.7	205.2	208.6	
G32.5	200.3	206.3	197.4	208.5	209.7	205.9	203.0	197.8	200.3	
G33.0	192.0	198.2	188.4	198.5	199.4	196.4	193.9	188.4	192.0	
G33.5	182.3	187.9	179.3	188.5	189.6	186.6	185.6	180.2	182.3	
G34.0	174.3	178.6	169.6	178.0	179.1	176.0	176.6	171.3	174.3	
G34.5	164.9	169.5	160.2	168.6	168.5	165.9	167.0	163.4	164.9	
G35.0	155.9	160.6	152.5	159.6	158.9	156.9	158.5	155.5	155.9	
G35.5	148.2	152.2	143.1	149.8	149.6	148.1	149.8	146.7	148.2	
G36.0	139.2	142.5	134.3	140.6	140.2	138.9	141.3	138.3	139.2	
G36.5	132.0	134.1	126.4	131.6	131.5	130.5	133.0	130.4	132.0	

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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 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	
G37.0	123.7	126.2	119.2	122.6	122.6	124.1	125.4	122.7	123.7	
G37.5	115.9	117.3	110.7	114.7	114.7	116.1	118.3	116.2	115.9	
G38.0	108.4	109.8	102.8	106.3	106.7	108.2	110.3	108.6	108.4	
G38.5	102.1	102.3	96.2	99.3	99.8	100.1	103.4	102.2	102.1	
G39.0	95.1	95.8	89.4	92.0	92.9	93.8	96.5	95.5	95.1	
G39.5	88.6	89.3	83.6	85.5	86.4	86.7	89.2	89.5	88.6	
G40.0	82.6	83.1	77.8	79.1	79.8	80.7	83.6	82.9	82.6	
G40.5	77.3	77.4	72.5	73.4	74.0	74.6	78.2	77.7	77.3	
G41.0	72.1	71.5	67.6	68.5	69.5	69.4	72.6	72.9	72.1	
G41.5	67.0	66.5	62.7	63.6	64.9	64.6	68.0	67.9	67.0	
G42.0	62.5	61.5	58.2	58.6	60.3	60.1	63.3	63.0	62.5	
G42.5	57.5	57.1	54.2	54.1	54.9	55.3	58.7	58.7	57.5	
G43.0	53.4	52.9	50.6	50.1	51.0	51.1	55.0	54.9	53.4	
G43.5	50.0	49.1	46.8	46.8	47.1	47.8	50.9	51.5	50.0	
G44.0	46.3	45.4	43.4	43.1	43.9	44.2	47.4	47.4	46.3	
G44.5	43.5	41.8	40.7	39.8	40.7	40.9	44.2	44.3	43.5	
G45.0	40.5	38.8	38.1	37.1	37.9	38.3	40.8	41.6	40.5	
G45.5	37.7	36.0	35.7	34.5	35.0	35.6	38.2	39.0	37.7	
G46.0	35.4	33.5	33.4	31.9	32.7	34.3	35.6	36.3	35.4	
G46.5	33.0	30.8	31.2	29.9	30.5	32.3	33.4	33.8	33.0	
G47.0	31.0	28.8	29.3	28.0	28.2	30.2	31.1	32.1	31.0	
G47.5	29.0	26.8	27.5	26.0	26.4	28.7	29.2	30.3	29.0	
G48.0	27.1	25.1	26.0	24.6	25.0	25.5	27.2	27.9	27.1	
G48.5	25.4	23.6	24.2	23.1	23.4	23.9	25.5	26.5	25.4	
G49.0	24.1	22.1	23.3	21.6	23.5	22.5	24.0	25.1	24.1	
G49.5	22.7	21.0	22.0	20.5	22.5	21.2	22.6	23.9	22.7	
G50.0	21.5	19.7	20.7	19.4	21.2	20.0	21.4	22.5	21.5	
G50.5	20.3	18.7	19.7	18.3	18.5	18.9	20.1	21.7	20.3	
G51.0	19.4	17.7	18.9	17.3	17.6	19.4	19.1	20.4	19.4	
G51.5	18.5	16.7	18.1	16.5	16.8	18.7	18.2	19.1	18.5	
G52.0	17.5	15.9	17.6	15.6	15.9	17.6	17.2	18.4	17.5	
G52.5	17.1	15.1	16.5	15.0	15.2	17.0	16.3	18.1	17.1	
G53.0	16.1	14.4	15.9	14.3	14.5	16.1	15.5	16.6	16.1	
G53.5	15.6	13.8	15.2	13.6	13.8	15.6	14.9	16.1	15.6	
G54.0	14.7	13.2	14.5	13.0	13.3	14.9	14.2	15.4	14.7	
G54.5	14.5	12.7	14.2	12.5	12.7	14.4	13.6	14.8	14.5	
G55.0	13.6	12.1	13.5	11.9	12.1	14.1	12.9	14.4	13.6	

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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 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	
G55.5	13.2	11.7	13.0	11.5	11.7	13.2	12.5	13.8	13.2	
G56.0	12.7	11.2	12.4	11.0	11.2	12.7	12.0	13.3	12.7	
G56.5	12.3	10.8	12.1	10.6	10.6	12.9	11.2	12.8	12.3	
G57.0	11.8	10.3	11.2	10.1	10.4	11.9	11.1	12.3	11.8	
G57.5	11.5	9.9	11.2	9.7	9.9	11.3	10.7	12.0	11.5	
G58.0	11.3	9.6	10.6	9.4	9.4	11.2	10.0	11.6	11.3	
G58.5	10.6	9.1	10.4	9.0	9.2	10.8	9.9	11.2	10.6	
G59.0	10.4	8.7	10.2	8.7	8.8	10.4	9.6	10.9	10.4	
G59.5	10.0	8.4	9.6	8.3	8.2	10.0	9.1	10.4	10.0	
G60.0	9.5	7.8	9.4	7.8	8.2	9.9	8.8	10.2	9.5	
G60.5	9.4	7.7	9.1	7.7	7.8	9.3	8.4	9.8	9.4	
G61.0	9.2	7.4	8.9	7.4	7.4	9.0	8.1	9.4	9.2	
G61.5	8.9	6.9	8.5	6.8	8.7	8.8	7.8	9.4	8.9	
G62.0	8.5	6.8	8.7	6.7	8.6	8.5	7.5	8.8	8.5	
G62.5	8.2	6.5	8.0	6.5	8.1	8.1	7.2	8.5	8.2	
G63.0	8.1	6.0	8.0	5.9	6.5	7.9	7.0	8.4	8.1	
G63.5	7.8	6.0	7.3	5.8	6.2	7.2	6.7	8.0	7.8	
G64.0	7.6	5.8	7.1	5.7	6.0	7.4	6.5	7.6	7.6	
G64.5	7.3	5.3	6.7	5.1	5.7	7.1	6.2	7.2	7.3	
G65.0	6.9	5.2	6.6	5.1	5.5	6.8	5.9	7.2	6.9	
G65.5	6.8	5.0	6.3	4.9	5.3	6.6	5.8	6.9	6.8	
G66.0	7.0	4.6	5.9	4.4	5.0	6.4	5.5	6.4	7.0	
G66.5	6.3	4.6	5.8	4.4	4.8	5.9	5.2	6.4	6.3	
G67.0	6.3	4.4	5.6	4.1	4.6	5.8	5.0	6.1	6.3	
G67.5	6.3	4.1	5.7	3.9	4.4	5.4	4.8	6.0	6.3	
G68.0	5.8	3.9	5.2	3.7	4.2	5.7	4.6	5.7	5.8	
G68.5	5.6	3.8	5.2	3.5	4.1	5.2	4.4	5.5	5.6	
G69.0	5.5	3.6	5.3	3.3	3.6	5.2	4.1	5.2	5.5	
G69.5	5.3	3.3	4.4	3.1	3.7	4.9	3.9	5.2	5.3	
G70.0	5.0	3.1	4.4	2.9	3.4	4.3	3.7	4.5	5.0	
G70.5	4.8	2.9	4.2	2.7	3.0	5.0	3.5	4.7	4.8	
G71.0	5.1	2.7	4.1	2.5	3.0	4.3	3.3	4.3	5.1	
G71.5	4.3	2.5	3.9	2.3	2.9	4.1	3.2	4.3	4.3	
G72.0	4.3	2.4	3.7	2.2	2.5	3.7	3.0	4.1	4.3	
G72.5	4.1	2.2	3.3	2.0	3.8	3.9	2.8	3.7	4.1	
G73.0	3.8	2.0	3.3	1.8	3.8	3.8	2.6	3.7	3.8	
G73.5	3.8	1.9	3.0	1.6	3.7	3.3	2.4	3.4	3.8	

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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 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	
G74.0	3.8	1.6	2.9	1.5	3.5	3.3	2.3	3.4	3.8	
G74.5	3.5	1.5	2.9	1.3	3.3	3.1	2.1	3.2	3.5	
G75.0	3.3	1.4	2.7	1.2	3.3	3.0	2.1	3.0	3.3	
G75.5	3.1	1.2	2.3	1.0	3.0	2.8	1.8	2.6	3.1	
G76.0	3.1	1.0	2.6	0.9	1.5	2.7	1.6	2.6	3.1	
G76.5	2.9	0.9	2.3	0.8	1.4	2.5	1.3	2.7	2.9	
G77.0	2.7	0.8	2.2	0.4	1.0	2.4	1.3	2.4	2.7	
G77.5	2.6	0.6	2.1	0.5	2.6	2.2	1.2	2.1	2.6	
G78.0	2.3	0.5	1.9	0.4	2.4	2.2	0.8	2.5	2.3	
G78.5	2.3	0.1	1.7	0.1	2.2	1.9	0.9	1.8	2.3	
G79.0	2.2	0.3	1.5	0.2	0.6	1.8	0.8	2.2	2.2	
G79.5	1.9	0.1	1.5	0.1	0.5	1.7	0.4	1.9	1.9	
G80.0	1.9	0.0	1.6	0.0	0.4	1.5	0.5	1.8	1.9	
G80.5	1.8	0.0	1.1	0.0	0.3	1.5	0.3	1.6	1.8	
G81.0	1.7	0.0	1.1	0.0	0.2	1.4	0.0	1.5	1.7	
G81.5	1.6	0.0	1.0	0.0	0.1	1.4	0.1	1.5	1.6	
G82.0	1.5	0.0	1.4	0.0	0.0	1.1	0.1	1.4	1.5	
G82.5	1.5	0.0	0.7	0.0	0.0	1.1	0.0	1.0	1.5	
G83.0	1.3	0.0	0.7	0.0	0.0	1.0	0.0	1.0	1.3	
G83.5	1.3	0.0	0.6	0.0	0.0	1.0	0.0	0.9	1.3	
G84.0	1.3	0.7	0.5	0.0	0.0	0.8	0.0	0.9	1.3	
G84.5	0.8	0.3	0.4	0.0	0.9	0.7	0.0	0.0	0.8	
G85.0	0.9	0.3	0.3	0.0	0.9	0.5	0.0	0.0	0.9	
G85.5	0.8	0.4	0.1	0.0	0.6	0.5	0.0	0.0	0.8	
G86.0	0.5	0.2	0.3	0.0	0.0	0.6	0.0	0.0	0.5	
G86.5	0.7	0.3	0.2	0.0	0.0	1.0	0.0	0.0	0.7	
G87.0	0.3	0.1	0.7	0.0	0.0	0.3	0.0	0.0	0.3	
G87.5	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4	
G88.0	0.6	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.6	
G88.5	0.3	0.2	0.4	0.0	0.2	0.4	0.0	0.0	0.3	
G89.0	0.3	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.3	
G89.5	0.2	0.2	0.2	0.0	0.2	0.4	0.0	0.0	0.2	
G90.0	0.4	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.4	

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

Gamma Plane (°):0.0-90.0:0.5
 Test Device: GPM-1600L
 Distance: 8.177 m
 Humidity:
 Inspector: