

Report No.: 12

Test Time: 2015/3/10 10:31

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: LT-I1213-L107A6

Current: 0.059 A

Power Factor: 0.972

Voltage: 220 V

Power: 12.74 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 1352.5 lm

Downward Ratio: 89%

Horizontal Diffuse Angle(50%): H111.6

Vertical Diffuse Angle(50%): V146.7

Luminaire Efficacy Rating (LER): 106

Max. Intensity: 346.56 cd

Total Rated Lamp Lumens: 1352.5 lm

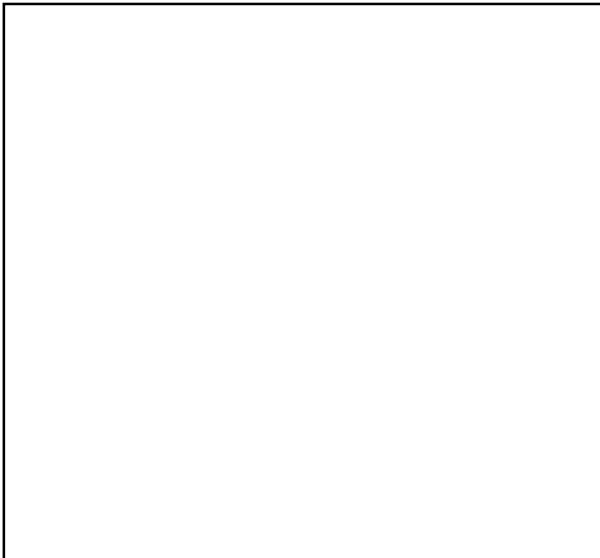
Efficiency: 100%

Upward Ratio: 11%

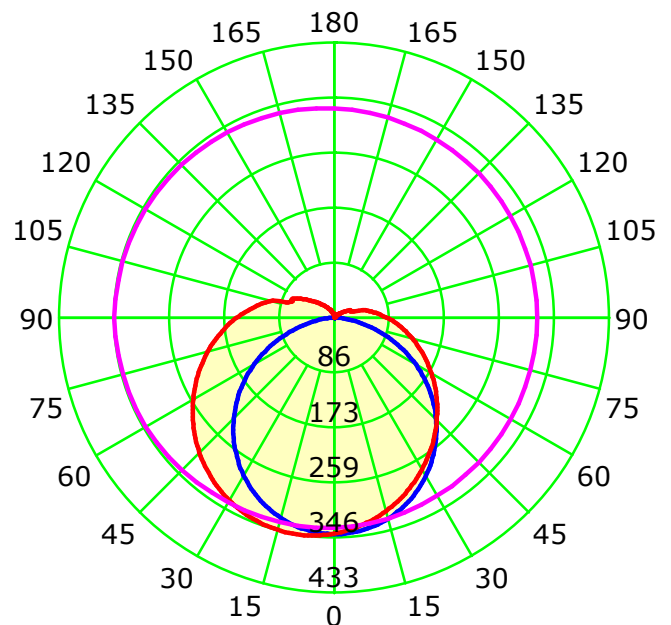
Central Intensity: 340.99 cd

Pos of Max. Intensity: H270 V13

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 129.16° Unit: cd

— C0-C180 — C90-C270 — G13

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

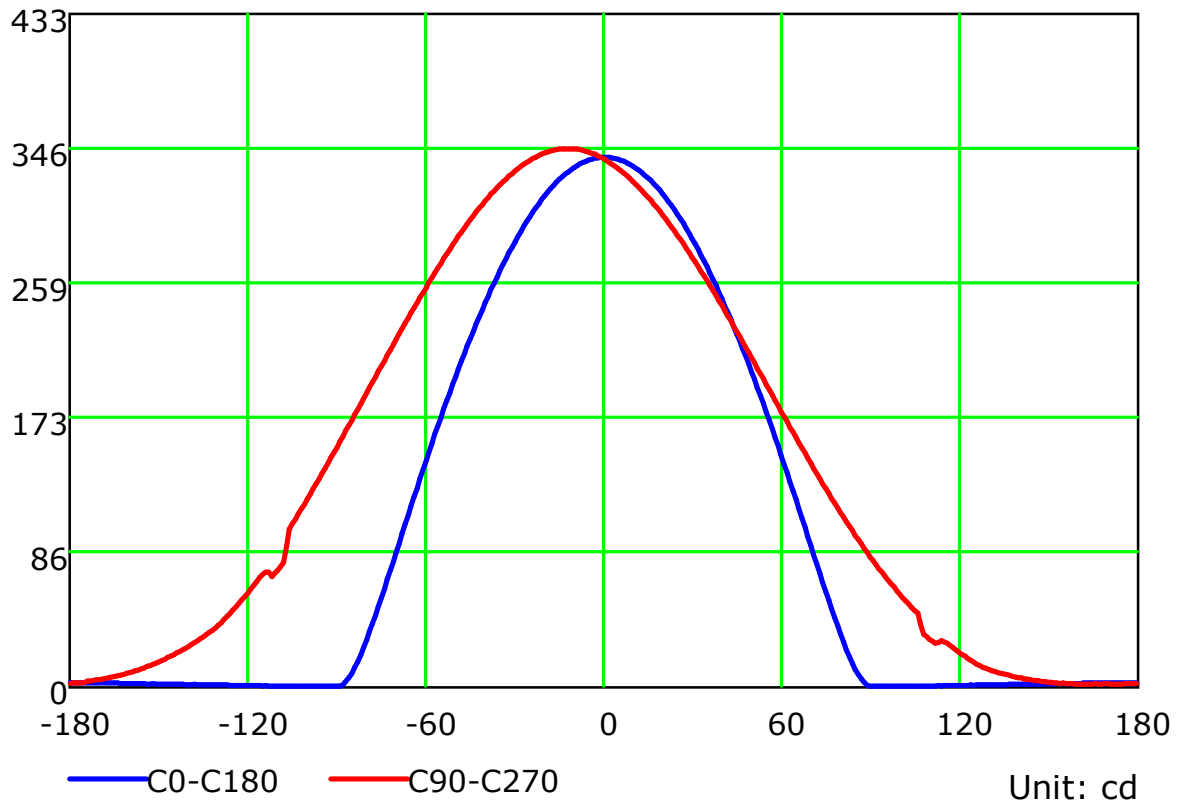
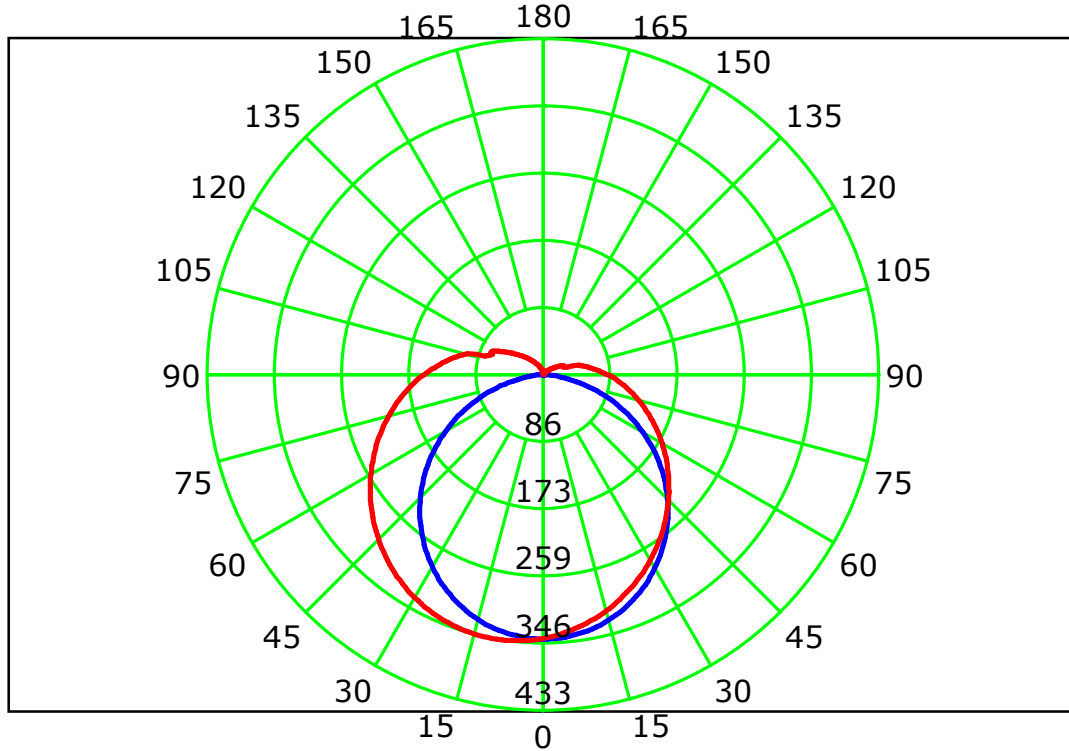
Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

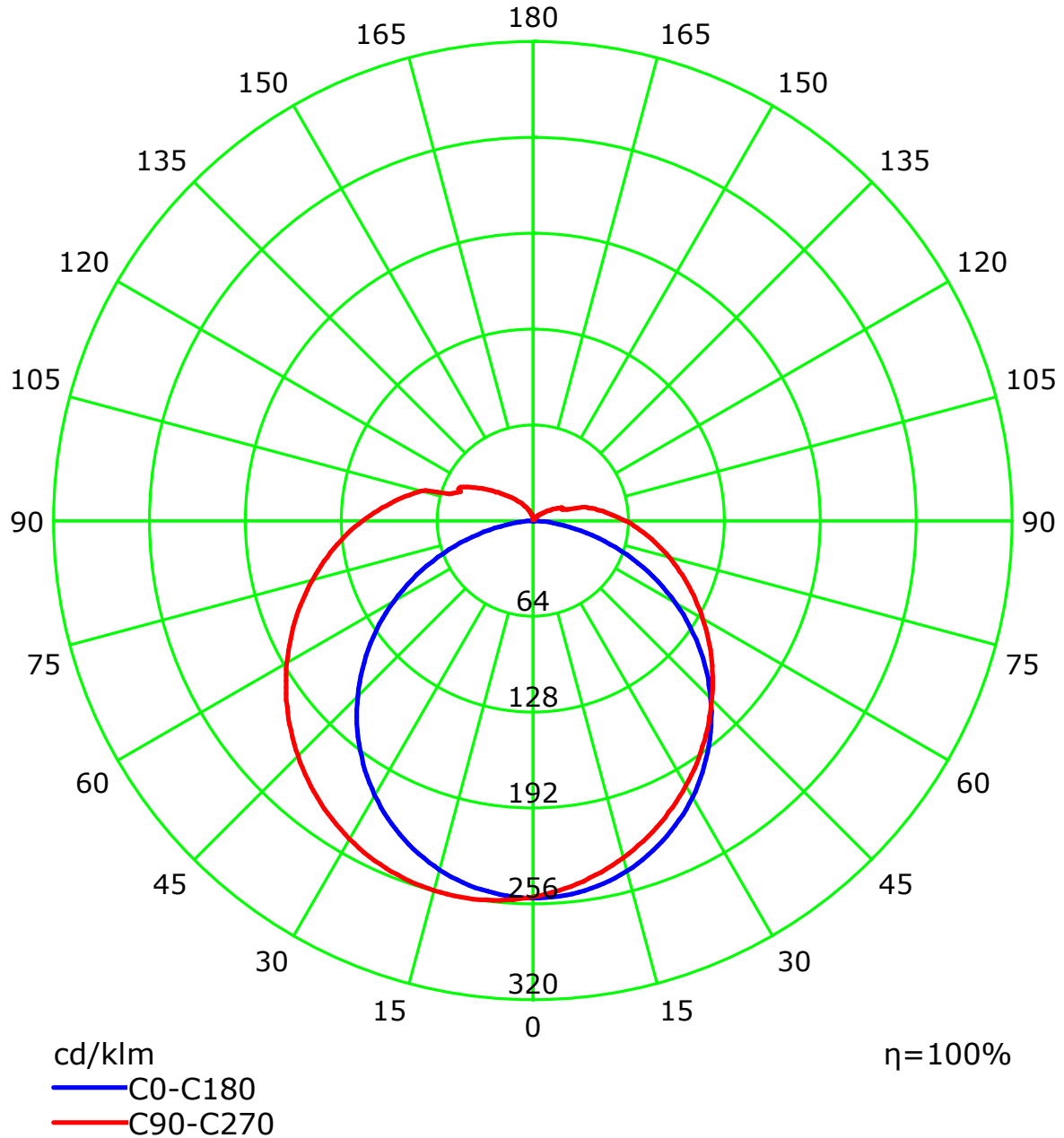
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

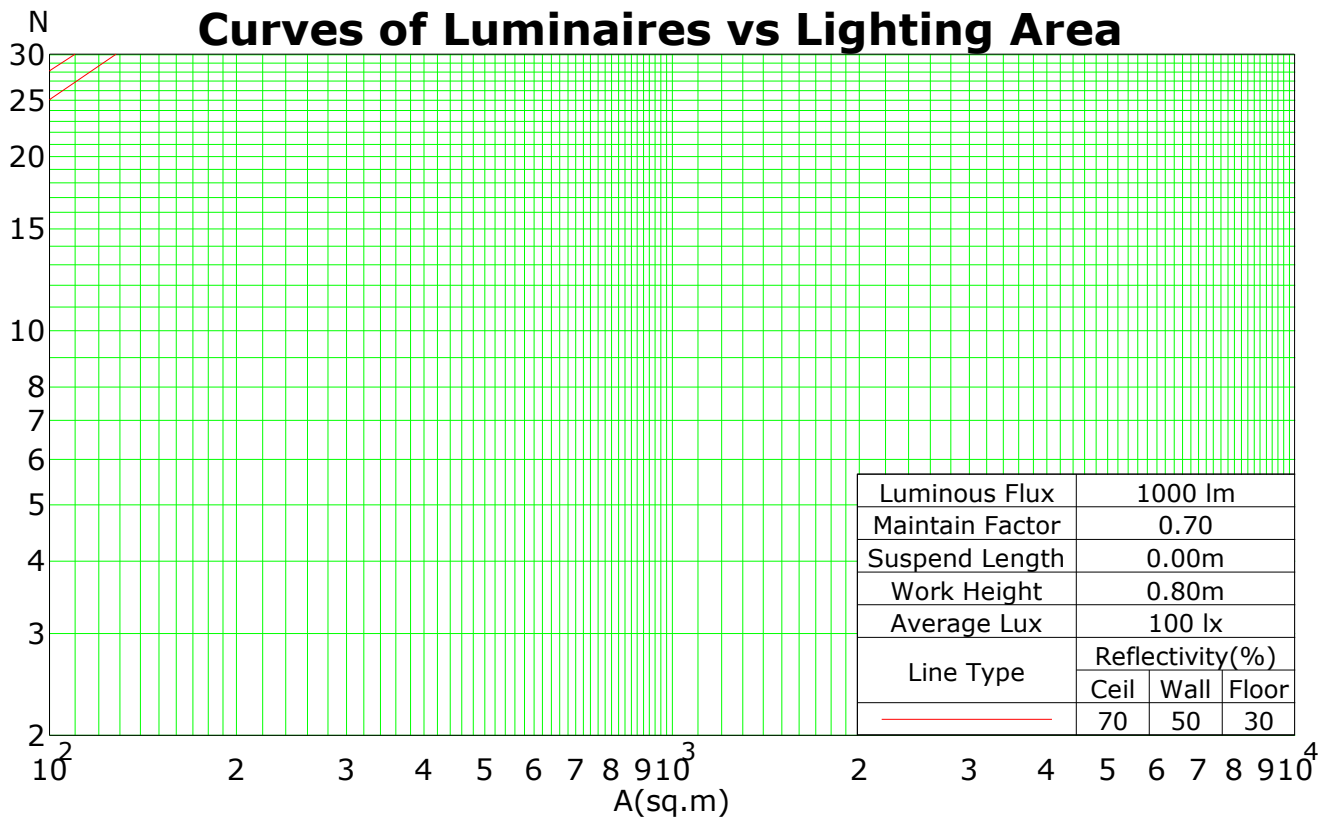
Coefficients Of Utilization - Zonal Cavity Method

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
RCR	RF = 0.2																	
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	103	98	92	88	99	94	89	85	88	84	80	82	79	76	76	74	72	69
2	93	84	76	69	89	81	74	68	75	69	64	70	65	61	66	62	58	55
3	84	73	64	57	81	70	62	55	66	59	53	61	55	51	57	52	48	45
4	77	64	55	47	74	62	53	46	58	50	44	54	48	43	51	45	41	38
5	70	57	47	40	67	55	46	40	52	44	38	48	42	37	45	40	35	33
6	65	51	42	35	62	49	41	34	46	39	33	44	37	32	41	35	31	28
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	37	31	27	25
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	28	24	22
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	32	26	22	20
10	49	35	27	22	47	34	27	21	33	26	21	31	25	20	29	24	20	18

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.34

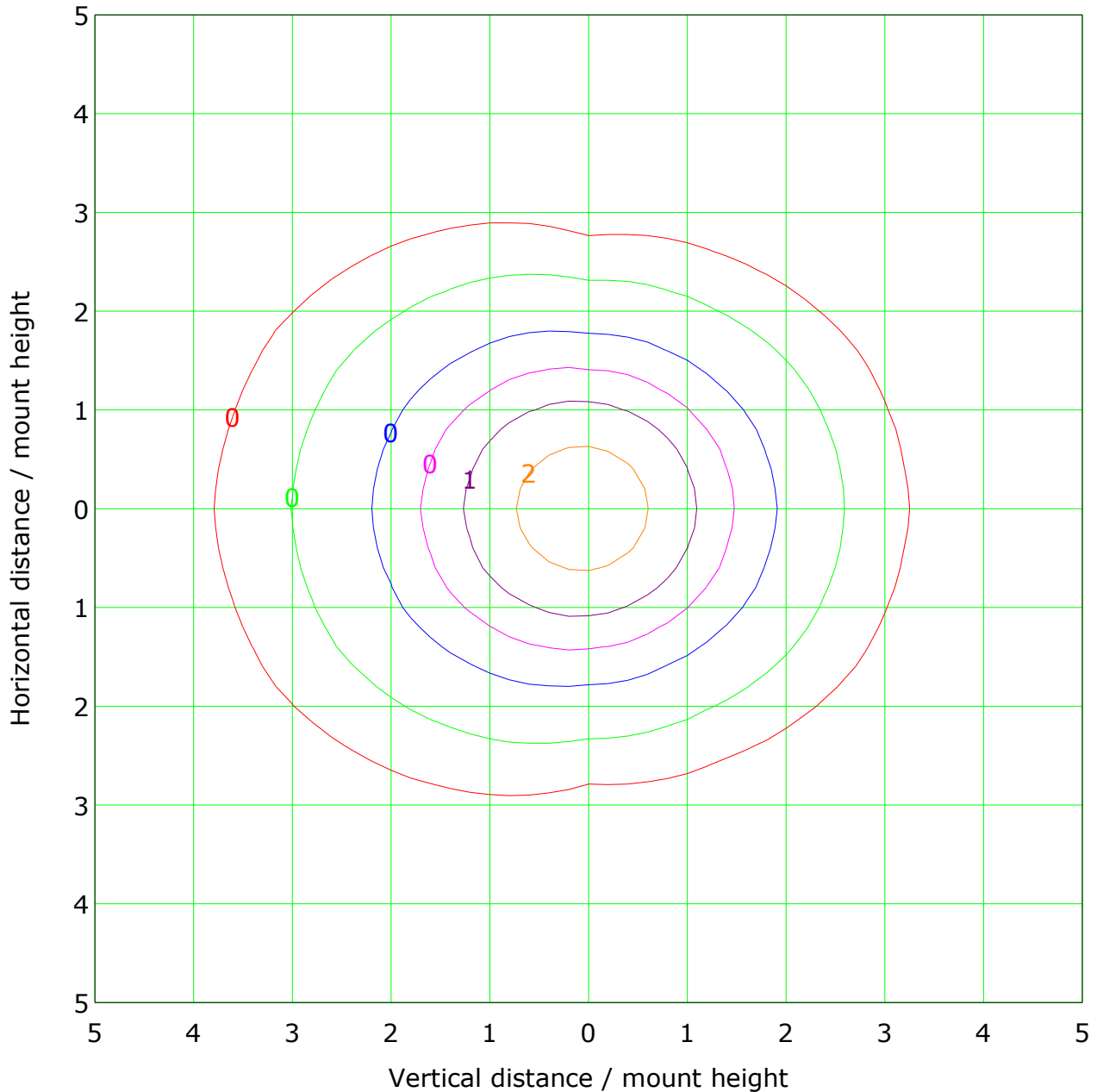
Spacing Criteria (Diagonal): 1.43



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

IsoLux Plot



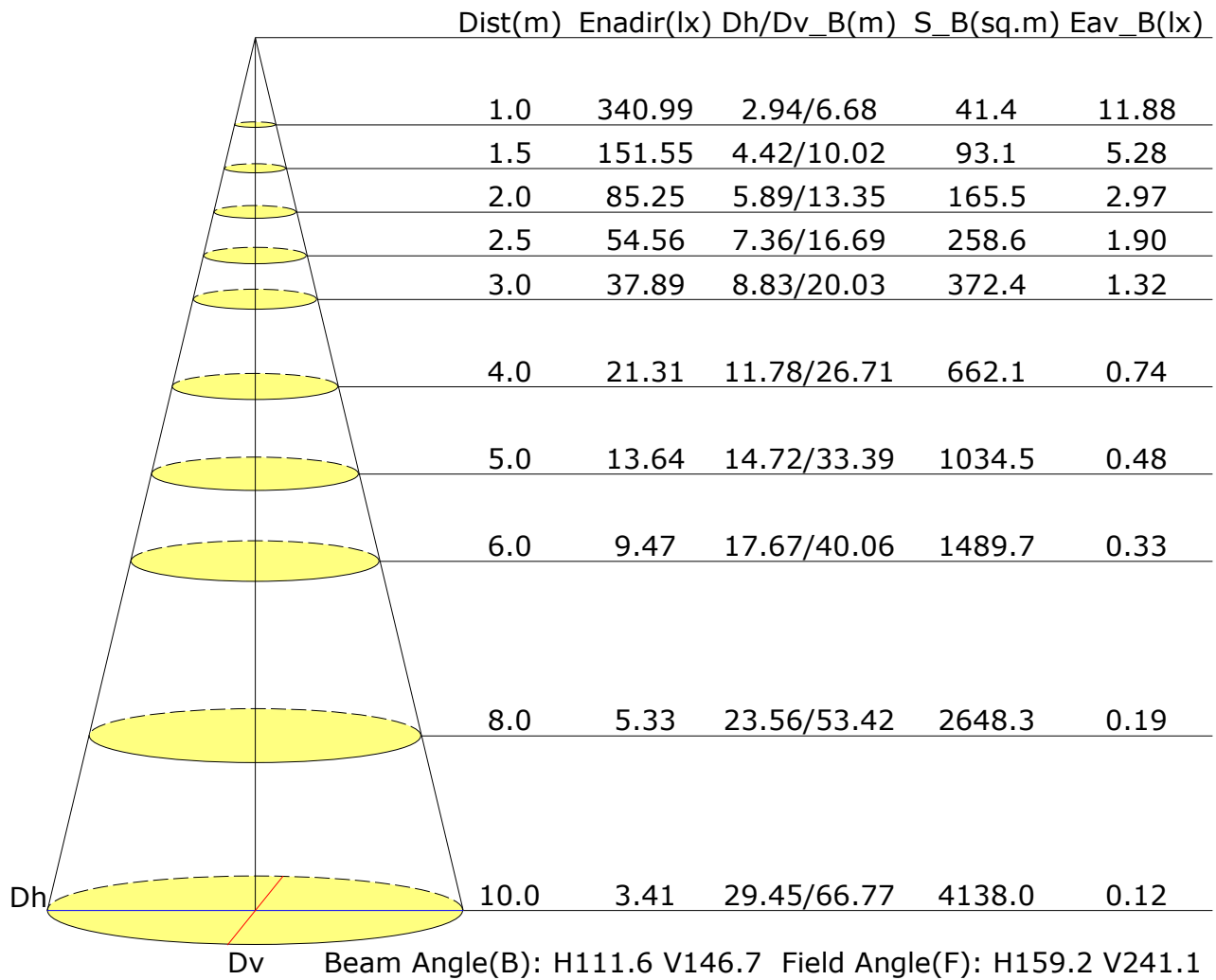
Mounting Height: 10.0m Max Lux(100%): 3.4 lx

(1%): 0.0 lx	(2%): 0.1 lx
(5%): 0.2 lx	(10%): 0.3 lx
(20%): 0.7 lx	(50%): 1.7 lx
(100%): 3.4 lx	

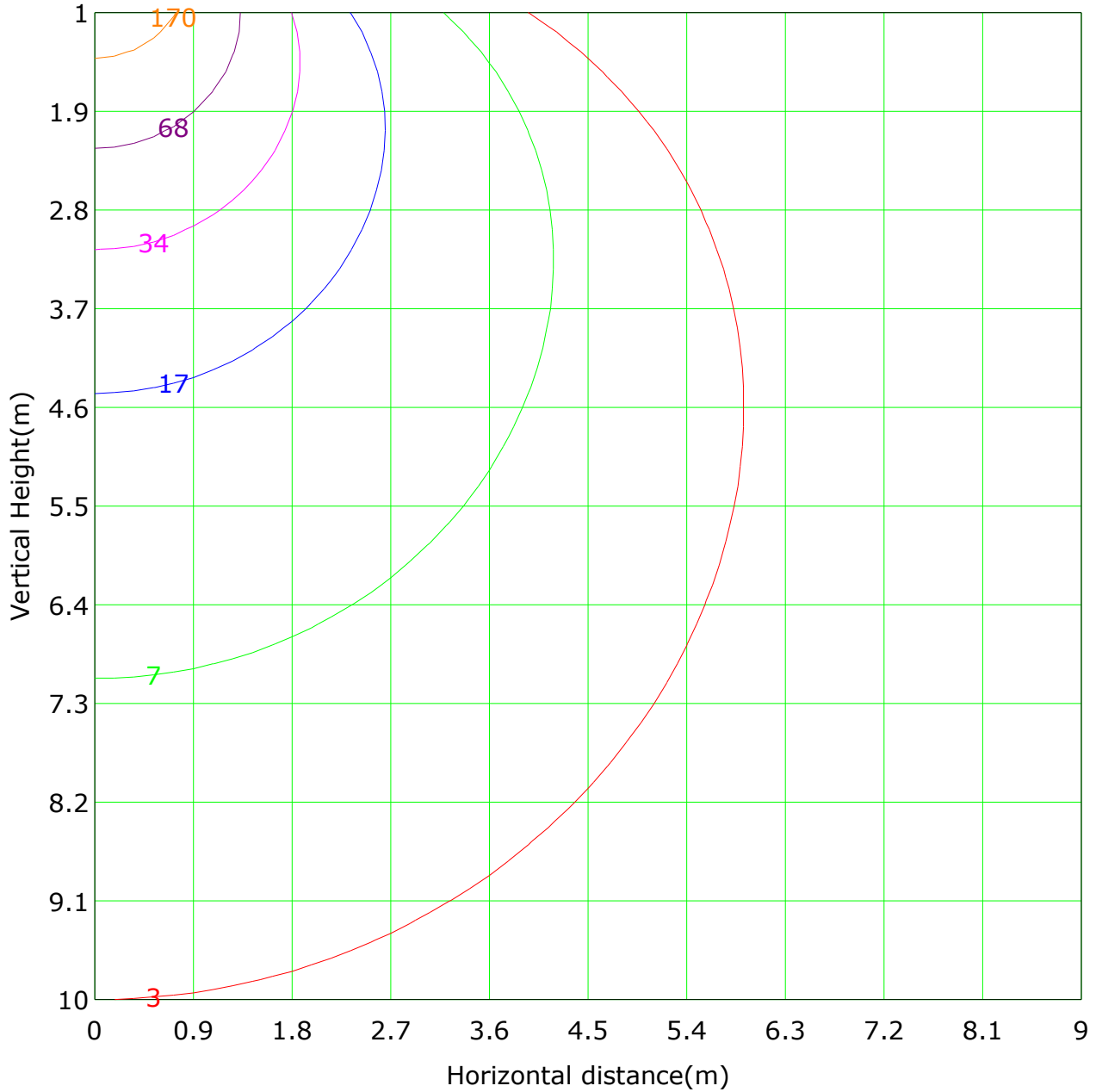
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

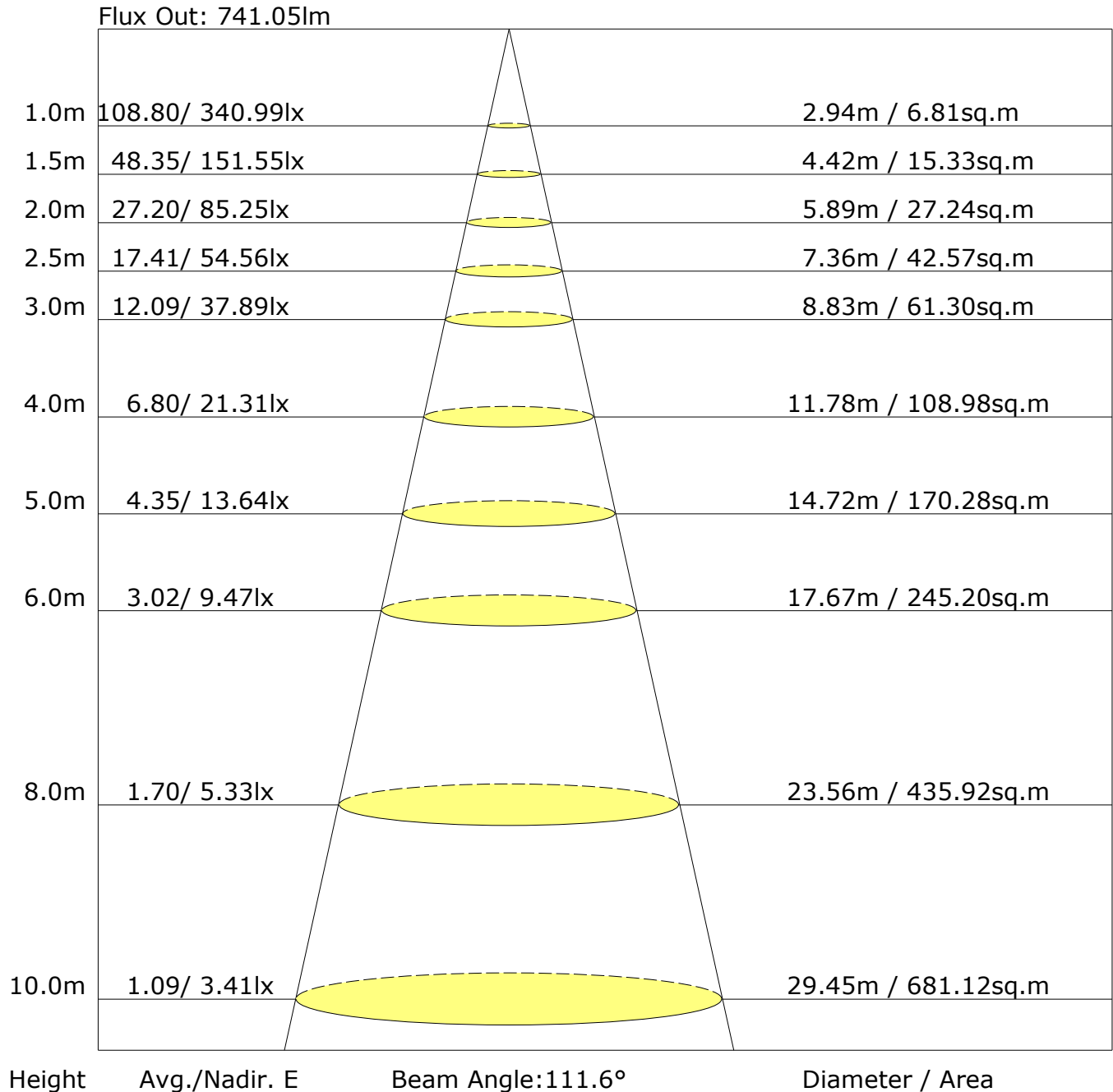


Lowest(m): 1.0m Highest(m): 10.0m Max Lux: 341.0 lx
 (1%): 3.4 lx (2%): 6.8 lx
 (5%): 17.0 lx (10%): 34.1 lx
 (20%): 68.2 lx (50%): 170.5 lx
 (100%): 341.0 lx

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 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.\$

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.52	0.60	0.67	0.72	0.79	0.84	0.88	0.92	0.96	
	0.30		0.44	0.51	0.59	0.64	0.72	0.78	0.82	0.87	0.91	
	0.20		0.38	0.45	0.53	0.58	0.66	0.72	0.77	0.83	0.87	
0.50	0.50	0.20	0.49	0.56	0.63	0.68	0.74	0.79	0.82	0.86	0.89	
	0.30		0.42	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.86	
	0.20		0.37	0.44	0.51	0.56	0.63	0.69	0.73	0.79	0.83	
0.30	0.50	0.20	0.47	0.53	0.59	0.63	0.70	0.74	0.77	0.81	0.84	
	0.30		0.40	0.47	0.54	0.58	0.65	0.69	0.73	0.77	0.81	
	0.20		0.36	0.42	0.49	0.54	0.61	0.65	0.69	0.74	0.78	
0.00	0.00	0.00	0.33	0.38	0.45	0.49	0.55	0.60	0.63	0.68	0.71	
Rating:13W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	1.01	0.87	0.75	0.67	0.55	0.47	0.41	0.32	0.27	
	0.30		0.84	0.75	0.66	0.59	0.50	0.43	0.38	0.31	0.26	
	0.20		0.72	0.65	0.58	0.53	0.45	0.39	0.35	0.29	0.25	
0.50	0.50	0.20	0.95	0.82	0.71	0.63	0.51	0.46	0.38	0.31	0.25	
	0.30		0.80	0.71	0.62	0.56	0.47	0.40	0.36	0.29	0.24	
	0.20		0.70	0.63	0.56	0.51	0.43	0.38	0.33	0.28	0.23	
0.30	0.50	0.20	0.90	0.77	0.66	0.59	0.48	0.41	0.36	0.29	0.24	
	0.30		0.77	0.68	0.60	0.53	0.45	0.38	0.34	0.27	0.23	
	0.20		0.67	0.61	0.54	0.49	0.41	0.36	0.32	0.26	0.22	
0.00	0.00	0.00	0.56	0.50	0.44	0.40	0.34	0.29	0.26	0.21	0.18	
Rating:13W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.27	0.29	0.30	0.30	0.31	0.32	0.32	0.33	0.33	
	0.30		0.21	0.22	0.23	0.24	0.26	0.27	0.28	0.29	0.30	
	0.20		0.16	0.17	0.18	0.19	0.21	0.23	0.24	0.26	0.27	
0.50	0.50	0.20	0.27	0.28	0.29	0.29	0.30	0.31	0.31	0.31	0.32	
	0.30		0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	
	0.20		0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.25	0.26	
0.30	0.50	0.20	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.30	
	0.30		0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	
	0.20		0.15	0.17	0.18	0.19	0.20	0.22	0.23	0.24	0.25	
0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	
Rating:13W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	341.0	340.3	340.0	340.0	339.6	339.0	341.0	340.3	340.0	340.0
G1.0	341.1	339.6	339.0	339.0	338.8	338.6	341.0	340.8	340.8	341.2
G2.0	340.8	339.0	337.9	337.9	337.9	337.9	340.6	341.1	341.6	341.9
G3.0	340.5	338.2	336.8	336.4	336.6	337.1	340.4	341.3	342.3	343.0
G4.0	340.1	337.3	335.5	335.1	335.4	336.3	339.8	341.5	342.8	343.6
G5.0	339.8	336.2	334.1	333.7	334.1	335.3	339.4	341.4	343.4	344.4
G6.0	339.1	335.1	332.7	332.3	332.9	334.2	338.5	341.4	343.8	344.8
G7.0	338.3	333.8	331.1	330.7	331.3	333.1	337.6	341.0	344.2	345.3
G8.0	337.5	332.4	329.7	329.0	329.8	331.8	336.7	340.8	344.3	345.9
G9.0	336.4	330.9	328.0	327.2	328.1	330.3	335.6	340.3	344.5	346.2
G10.0	335.3	329.4	326.1	325.5	326.3	328.8	334.6	339.7	344.4	346.4
G11.0	334.0	327.6	324.2	323.6	324.6	327.3	333.1	339.0	344.5	346.5
G12.0	332.7	325.9	322.2	321.6	322.7	325.5	331.7	338.4	344.1	346.5
G13.0	331.2	324.1	320.4	319.7	320.7	323.7	330.3	337.4	344.0	346.6
G14.0	329.6	322.0	318.2	317.6	318.7	321.5	328.5	336.5	343.5	346.4
G15.0	327.9	319.9	316.1	315.5	316.5	319.7	326.8	335.4	343.0	346.2
G16.0	326.1	317.6	313.8	313.3	314.4	317.5	324.8	334.1	342.4	345.8
G17.0	324.1	315.2	311.6	311.0	312.1	315.4	322.9	332.6	341.7	345.4
G18.0	321.9	312.9	309.0	308.6	309.6	312.9	320.7	331.2	341.1	344.9
G19.0	319.8	310.3	306.8	306.4	307.3	310.6	318.4	329.6	340.1	344.3
G20.0	317.4	307.8	303.9	303.8	304.6	307.9	316.0	328.0	339.3	343.7
G21.0	315.1	305.0	301.5	301.3	302.1	305.4	313.6	326.2	338.2	342.9
G22.0	312.6	302.4	298.8	298.9	299.7	302.5	311.0	324.4	336.9	342.1
G23.0	309.9	299.3	296.0	296.2	296.8	299.7	308.3	322.3	335.8	341.0
G24.0	307.2	296.3	293.3	293.7	294.1	296.7	305.4	320.3	334.4	340.1
G25.0	304.2	293.4	290.3	290.8	291.1	293.7	302.6	318.0	333.0	338.9
G26.0	301.3	290.1	287.5	288.1	288.3	290.8	299.6	315.8	331.5	337.7
G27.0	298.4	286.9	284.5	285.4	285.7	287.4	296.4	313.4	329.8	336.6
G28.0	295.1	283.5	281.4	282.5	282.4	284.3	293.2	310.9	328.1	335.1
G29.0	292.0	280.2	278.3	279.7	279.5	280.9	289.9	308.4	326.3	333.5
G30.0	288.5	276.5	275.2	276.6	276.2	277.5	286.6	305.5	324.5	332.2
G31.0	285.2	273.1	272.0	273.8	273.2	273.9	283.0	302.8	322.5	330.5
G32.0	281.5	269.5	268.8	270.6	269.8	270.5	279.5	299.9	320.5	329.0
G33.0	278.0	265.7	265.5	267.7	266.7	266.7	275.7	297.1	318.3	327.0
G34.0	274.3	262.0	262.2	264.7	263.3	263.0	272.0	294.0	316.2	325.4
G35.0	270.3	258.3	258.7	261.5	260.0	259.3	268.0	290.8	313.8	323.3
G36.0	266.5	254.2	255.3	258.5	256.7	255.4	263.9	287.3	311.6	321.5

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G37.0	262.4	250.3	251.8	255.2	253.2	251.5	259.9	284.3	309.0	319.3
G38.0	258.4	246.2	248.4	252.0	249.8	247.5	255.9	280.9	306.6	317.3
G39.0	254.0	242.0	244.9	248.7	246.3	243.4	251.5	277.4	303.9	315.0
G40.0	249.9	237.9	241.3	245.5	242.8	239.3	247.4	273.9	301.4	312.9
G41.0	245.4	233.7	237.8	242.2	239.3	235.3	242.8	270.3	298.6	310.5
G42.0	241.0	229.4	234.1	238.7	235.6	231.1	238.2	266.3	296.0	308.3
G43.0	236.6	225.0	230.5	235.6	232.1	226.8	233.8	262.8	293.0	305.8
G44.0	232.0	220.7	226.7	232.1	228.5	222.3	229.0	258.7	290.3	303.4
G45.0	227.3	216.4	223.1	228.9	224.7	218.1	224.2	254.7	287.3	300.8
G46.0	222.6	211.8	219.5	225.5	221.2	213.6	219.5	250.8	284.1	298.1
G47.0	217.7	207.4	215.6	222.3	217.5	209.2	214.8	246.7	281.2	295.6
G48.0	213.0	202.9	211.9	218.7	213.6	204.8	209.7	242.7	278.0	292.9
G49.0	207.9	198.1	208.3	215.2	209.9	200.3	204.6	238.4	274.9	290.1
G50.0	202.9	193.6	204.6	211.8	206.2	195.8	199.6	234.2	271.6	287.3
G51.0	197.8	189.0	200.9	208.4	202.6	191.3	194.5	229.8	268.4	284.4
G52.0	192.5	184.5	196.7	205.0	198.6	186.5	189.3	225.6	265.0	281.6
G53.0	187.4	179.6	193.3	201.4	195.0	182.1	184.1	221.1	261.8	278.6
G54.0	182.2	175.1	189.6	198.2	191.4	177.3	178.7	216.8	258.4	275.8
G55.0	176.6	170.3	185.7	194.5	187.5	172.8	173.1	212.2	254.9	272.6
G56.0	171.4	165.7	181.7	191.3	183.9	168.0	167.8	207.7	251.5	269.5
G57.0	165.7	161.2	178.1	187.6	179.9	163.5	162.3	203.2	248.0	266.5
G58.0	160.4	156.3	174.4	184.2	176.4	158.9	156.7	198.6	244.5	263.4
G59.0	154.9	151.7	170.5	180.9	172.7	154.1	150.9	194.0	241.0	260.4
G60.0	149.0	147.1	166.9	177.3	168.8	149.5	145.4	189.3	237.4	257.0
G61.0	143.1	142.2	163.3	173.9	165.1	145.0	139.5	184.6	233.8	253.7
G62.0	137.4	137.7	159.5	170.4	161.4	140.3	133.8	180.1	230.2	250.5
G63.0	131.8	132.9	155.9	167.1	157.8	135.8	127.9	175.3	226.7	247.2
G64.0	126.2	128.4	152.0	163.9	154.2	131.1	122.2	170.7	223.0	244.1
G65.0	120.2	123.9	148.5	160.3	150.5	126.6	116.2	166.0	219.5	240.6
G66.0	114.4	119.2	145.0	157.1	146.9	122.2	110.5	161.2	215.8	237.5
G67.0	108.4	114.8	141.4	153.6	143.4	117.7	104.5	156.6	211.9	234.0
G68.0	102.6	110.2	137.8	150.4	139.8	113.1	98.4	152.0	208.2	230.6
G69.0	96.5	105.9	134.3	146.9	136.3	108.9	92.4	147.1	204.7	227.4
G70.0	90.7	101.5	130.8	143.7	132.7	104.5	86.5	142.7	200.9	223.8
G71.0	84.8	97.3	127.3	140.4	129.3	100.2	80.8	138.0	197.4	220.5
G72.0	78.8	93.1	124.0	137.2	125.9	96.1	74.7	133.5	193.5	216.9
G73.0	73.0	89.0	120.6	134.0	122.6	92.0	69.0	129.2	189.9	213.6

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G74.0	67.2	84.9	117.3	130.7	119.1	87.9	62.9	124.5	186.4	210.0
G75.0	61.3	80.9	113.9	127.5	115.9	84.0	57.3	120.3	182.6	206.6
G76.0	55.6	77.0	110.5	124.3	112.4	80.0	51.5	115.8	179.1	203.0
G77.0	50.0	73.2	107.4	121.3	109.3	76.3	46.0	111.5	175.4	199.6
G78.0	44.4	69.5	104.1	118.1	106.0	72.5	40.5	107.4	171.8	196.1
G79.0	39.1	65.8	101.1	115.1	102.8	68.9	35.3	103.4	168.1	192.6
G80.0	33.8	62.3	98.1	112.2	99.9	65.5	30.0	99.3	164.4	189.1
G81.0	28.6	58.7	94.9	109.0	96.6	61.9	25.0	95.3	160.8	185.6
G82.0	23.8	55.5	91.9	106.1	93.8	58.7	20.5	91.3	157.4	182.1
G83.0	19.3	52.4	88.7	103.3	90.8	55.3	16.0	87.7	153.7	178.6
G84.0	14.9	49.4	85.9	100.4	87.7	52.2	12.1	83.9	150.3	175.1
G85.0	11.0	46.5	83.0	97.3	84.8	49.3	8.4	80.4	146.6	171.6
G86.0	7.8	43.6	80.4	94.6	82.1	46.6	5.4	76.9	143.3	168.1
G87.0	4.7	41.0	77.4	91.9	79.2	43.6	2.9	73.6	139.7	164.7
G88.0	2.7	38.3	74.9	89.1	76.5	41.2	1.1	70.3	136.3	161.2
G89.0	0.8	36.0	72.2	86.2	73.7	38.5	0.1	67.2	133.0	157.7
G90.0	0.0	33.5	69.6	83.6	71.2	36.1	0.0	64.1	129.6	154.1
G91.0	0.0	31.4	66.9	81.1	68.6	33.7	0.0	61.1	126.2	150.8
G92.0	0.0	29.3	64.5	78.4	66.1	31.6	0.0	58.3	123.0	147.5
G93.0	0.0	27.2	62.1	75.9	63.7	29.6	0.0	55.5	119.6	144.1
G94.0	0.0	25.5	59.7	73.5	61.1	27.5	0.0	52.9	116.4	140.6
G95.0	0.0	23.7	57.4	70.9	58.9	25.8	0.0	50.3	113.2	137.1
G96.0	0.0	21.9	55.2	68.6	56.6	24.1	0.0	47.9	110.0	133.8
G97.0	0.0	20.3	53.0	66.2	54.3	22.4	0.0	45.5	106.9	130.6
G98.0	0.0	19.0	50.8	64.0	52.2	20.7	0.0	43.1	103.8	127.2
G99.0	0.0	16.4	48.8	61.7	50.2	19.1	0.0	38.6	100.8	124.1
G100.0	0.0	14.3	46.7	59.3	48.0	16.0	0.0	34.5	97.7	120.7
G101.0	0.0	12.5	44.7	57.2	45.9	14.1	0.0	31.1	94.8	117.3
G102.0	0.0	11.5	42.8	55.1	44.0	12.4	0.0	29.4	91.8	114.4
G103.0	0.1	10.6	40.8	53.0	42.2	11.7	0.0	27.7	88.8	111.1
G104.0	0.1	9.4	39.0	50.9	40.2	10.8	0.1	25.5	84.2	108.0
G105.0	0.1	8.5	30.3	49.0	35.3	9.7	0.1	23.7	67.2	104.8
G106.0	0.2	7.6	27.1	47.0	28.5	8.6	0.0	22.1	60.7	101.4
G107.0	0.2	6.9	25.7	40.3	26.9	8.0	0.2	20.9	58.2	90.4
G108.0	0.3	6.3	23.8	33.8	25.2	7.1	0.0	20.1	55.4	79.8
G109.0	0.3	5.6	22.6	31.9	23.7	6.5	0.2	19.2	54.6	76.9
G110.0	0.3	5.1	23.1	30.4	22.7	6.0	0.1	18.8	59.0	74.8

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	0.3	4.8	23.9	29.1	24.7	5.6	0.3	18.2	59.5	72.8
G112.0	0.3	4.5	22.8	28.0	23.8	5.0	0.2	17.7	58.4	70.8
G113.0	0.4	4.3	22.0	28.4	22.9	4.7	0.2	17.1	56.5	73.7
G114.0	0.4	3.8	20.6	29.5	21.5	4.6	0.4	16.9	54.5	73.7
G115.0	0.5	3.7	19.6	28.9	20.4	4.2	0.3	16.6	52.7	72.5
G116.0	0.4	3.6	18.3	27.9	19.3	4.0	0.5	16.0	50.7	70.2
G117.0	0.5	3.3	17.3	26.2	18.0	3.8	0.5	15.6	48.7	67.6
G118.0	0.7	3.1	16.3	24.9	16.8	3.5	0.4	14.9	47.0	65.3
G119.0	0.5	3.0	15.0	23.3	15.7	3.5	0.6	14.4	45.0	62.8
G120.0	0.8	2.7	14.1	21.9	14.6	3.2	0.5	14.0	43.3	60.5
G121.0	0.8	2.5	13.0	20.6	13.5	3.0	0.7	13.6	41.4	58.1
G122.0	0.7	2.5	11.9	19.4	12.5	2.9	0.6	13.1	39.7	55.9
G123.0	0.7	2.3	11.1	17.9	11.6	2.7	0.8	12.7	38.0	53.7
G124.0	0.9	2.1	10.3	16.8	10.6	2.4	0.7	12.3	36.4	51.5
G125.0	0.8	2.1	9.7	15.5	10.1	2.4	0.8	11.9	34.8	49.2
G126.0	0.8	2.0	9.0	14.4	9.5	2.1	0.8	11.5	33.3	47.2
G127.0	1.0	1.8	8.0	13.2	8.8	2.1	0.8	11.2	32.0	45.0
G128.0	0.9	1.9	7.8	12.4	8.4	2.0	0.9	10.7	30.9	43.0
G129.0	0.9	1.6	7.4	11.6	7.8	2.0	0.9	10.4	29.7	41.2
G130.0	1.1	1.5	7.0	10.9	7.3	1.8	0.9	10.1	28.5	39.2
G131.0	1.1	1.6	6.6	10.3	7.0	1.7	1.0	9.8	27.6	37.8
G132.0	1.1	1.4	6.1	9.6	6.6	1.7	1.0	9.5	26.4	36.2
G133.0	1.1	1.4	5.8	9.1	6.1	1.6	1.0	9.1	25.5	34.9
G134.0	1.2	1.5	5.4	8.5	5.8	1.5	1.0	8.8	24.4	33.4
G135.0	1.2	1.3	5.1	8.0	5.4	1.5	1.1	8.3	23.6	32.1
G136.0	1.2	1.4	4.8	7.4	5.1	1.4	1.1	8.0	22.5	30.8
G137.0	1.3	1.4	4.4	7.0	4.8	1.4	1.2	7.8	21.7	29.6
G138.0	1.3	1.2	4.1	6.5	4.4	1.4	1.2	7.8	20.8	28.4
G139.0	1.3	1.2	3.8	6.0	4.1	1.3	1.2	7.6	19.8	27.1
G140.0	1.3	1.3	3.8	5.7	3.8	1.4	1.2	7.3	19.1	25.9
G141.0	1.3	1.2	3.4	5.4	3.5	1.2	1.2	7.3	18.1	24.8
G142.0	1.4	1.3	3.3	4.8	3.4	1.3	1.4	6.9	17.5	23.7
G143.0	1.5	1.2	3.1	4.7	3.2	1.3	1.4	6.9	16.6	22.6
G144.0	1.5	1.1	2.8	4.3	3.0	1.2	1.4	6.6	16.1	21.5
G145.0	1.4	1.2	2.5	3.8	2.8	1.3	1.5	6.6	15.2	20.5
G146.0	1.6	1.3	2.5	3.7	2.7	1.2	1.4	6.2	14.7	19.5
G147.0	1.6	1.3	2.2	3.5	2.5	1.2	1.4	6.2	13.9	18.6

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	1.5	1.4	2.3	3.1	2.4	1.4	1.4	5.9	13.4	17.6
G149.0	1.7	1.3	2.0	3.1	2.2	1.2	1.6	5.7	12.8	16.7
G150.0	1.5	1.3	1.9	2.9	2.1	1.2	1.6	5.6	12.2	15.8
G151.0	1.8	1.3	1.9	2.7	1.9	1.4	1.6	5.5	11.5	15.1
G152.0	1.6	1.3	1.9	2.3	2.0	1.4	1.7	5.3	11.1	14.2
G153.0	1.7	1.4	1.6	2.4	1.9	1.3	1.5	5.1	10.5	13.6
G154.0	1.7	1.5	1.7	2.0	1.7	1.4	1.6	5.1	10.0	12.8
G155.0	1.9	1.3	1.6	2.1	1.6	1.3	1.8	4.8	9.5	12.0
G156.0	1.9	1.3	1.5	2.0	1.5	1.3	1.7	4.8	9.0	11.4
G157.0	1.8	1.5	1.6	1.8	1.6	1.3	1.8	4.6	8.5	10.6
G158.0	1.9	1.5	1.5	1.7	1.6	1.4	1.8	4.5	8.1	10.1
G159.0	2.0	1.5	1.6	1.6	1.6	1.5	1.9	4.3	7.7	9.4
G160.0	2.0	1.4	1.5	1.6	1.5	1.4	1.8	4.3	7.3	9.0
G161.0	2.0	1.5	1.6	1.6	1.7	1.5	2.0	4.1	6.9	8.3
G162.0	2.1	1.4	1.5	1.6	1.5	1.5	2.0	3.9	6.6	7.7
G163.0	2.1	1.6	1.5	1.6	1.7	1.6	1.9	3.9	6.1	7.3
G164.0	2.2	1.6	1.6	1.5	1.5	1.5	2.1	3.7	5.8	6.8
G165.0	2.2	1.5	1.6	1.6	1.5	1.5	2.1	3.6	5.6	6.5
G166.0	2.2	1.6	1.7	1.7	1.6	1.5	2.1	3.6	5.2	5.9
G167.0	2.2	1.5	1.6	1.6	1.5	1.5	2.1	3.4	5.0	5.7
G168.0	2.3	1.7	1.7	1.6	1.7	1.6	2.2	3.3	4.5	5.2
G169.0	2.3	1.7	1.7	1.7	1.7	1.5	2.2	3.3	4.5	4.8
G170.0	2.2	1.6	1.6	1.7	1.6	1.5	2.2	3.1	4.0	4.5
G171.0	2.3	1.6	1.5	1.6	1.6	1.6	2.3	3.1	3.8	4.2
G172.0	2.4	1.8	1.7	1.6	1.6	1.8	2.3	3.0	3.6	3.9
G173.0	2.3	1.8	1.6	1.6	1.6	1.8	2.3	2.8	3.5	3.7
G174.0	2.4	2.0	1.8	1.6	1.7	2.0	2.3	2.9	3.2	3.5
G175.0	2.4	1.9	1.9	1.6	1.7	2.1	2.3	2.9	3.0	2.8
G176.0	2.3	2.0	1.8	1.9	1.9	2.0	2.3	2.6	3.0	2.3
G177.0	2.5	2.1	2.0	1.8	1.9	2.2	2.3	2.5	2.8	2.3
G178.0	2.3	2.2	2.2	2.0	2.1	2.3	2.3	2.6	2.5	2.1
G179.0	2.3	2.3	2.3	2.0	2.3	2.2	2.3	2.4	2.4	2.2
G180.0	2.4	2.4	2.3	1.9	2.3	2.4	2.5	2.4	2.5	2.0

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	339.6	339.0	341.0							
G1.0	340.7	339.4	341.1							
G2.0	341.3	339.8	340.8							
G3.0	342.1	339.9	340.5							
G4.0	342.4	339.9	340.1							
G5.0	343.1	340.0	339.8							
G6.0	343.3	339.7	339.1							
G7.0	343.6	339.5	338.3							
G8.0	343.8	339.0	337.5							
G9.0	343.9	338.7	336.4							
G10.0	344.0	338.1	335.3							
G11.0	343.7	337.4	334.0							
G12.0	343.5	336.4	332.7							
G13.0	343.2	335.5	331.2							
G14.0	342.9	334.2	329.6							
G15.0	342.4	333.2	327.9							
G16.0	341.7	332.0	326.1							
G17.0	340.9	330.5	324.1							
G18.0	340.2	329.2	321.9							
G19.0	339.3	327.5	319.8							
G20.0	338.4	325.9	317.4							
G21.0	337.3	324.0	315.1							
G22.0	336.1	322.1	312.6							
G23.0	334.8	320.1	309.9							
G24.0	333.5	317.9	307.2							
G25.0	331.9	315.8	304.2							
G26.0	330.4	313.4	301.3							
G27.0	328.7	311.0	298.4							
G28.0	327.1	308.5	295.1							
G29.0	325.2	305.9	292.0							
G30.0	323.5	303.2	288.5							
G31.0	321.3	300.5	285.2							
G32.0	319.4	297.5	281.5							
G33.0	317.1	294.4	278.0							
G34.0	315.0	291.5	274.3							
G35.0	312.6	288.2	270.3							
G36.0	310.2	285.1	266.5							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	307.9	281.6	262.4							
G38.0	305.4	278.3	258.4							
G39.0	302.8	274.8	254.0							
G40.0	300.3	271.3	249.9							
G41.0	297.5	267.8	245.4							
G42.0	294.8	264.0	241.0							
G43.0	291.9	260.1	236.6							
G44.0	289.1	256.5	232.0							
G45.0	286.0	252.5	227.3							
G46.0	283.1	248.6	222.6							
G47.0	280.1	244.4	217.7							
G48.0	277.0	240.2	213.0							
G49.0	273.9	236.2	207.9							
G50.0	270.7	231.9	202.9							
G51.0	267.4	227.7	197.8							
G52.0	264.2	223.5	192.5							
G53.0	260.7	219.1	187.4							
G54.0	257.6	214.7	182.2							
G55.0	254.1	210.2	176.6							
G56.0	250.5	205.8	171.4							
G57.0	247.3	201.3	165.7							
G58.0	243.8	196.7	160.4							
G59.0	240.0	192.3	154.9							
G60.0	236.7	187.6	149.0							
G61.0	233.0	183.1	143.1							
G62.0	229.5	178.4	137.4							
G63.0	225.8	174.0	131.8							
G64.0	222.4	169.2	126.2							
G65.0	218.7	164.9	120.2							
G66.0	215.2	160.1	114.4							
G67.0	211.5	155.4	108.4							
G68.0	207.8	150.8	102.6							
G69.0	204.3	146.5	96.5							
G70.0	200.6	142.1	90.7							
G71.0	197.0	137.4	84.8							
G72.0	193.3	133.1	78.8							
G73.0	189.7	128.5	73.0							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	186.1	124.3	67.2							
G75.0	182.4	119.9	61.3							
G76.0	178.8	115.9	55.6							
G77.0	175.2	111.6	50.0							
G78.0	171.7	107.7	44.4							
G79.0	168.0	103.6	39.1							
G80.0	164.3	99.6	33.8							
G81.0	161.0	95.9	28.6							
G82.0	157.2	92.0	23.8							
G83.0	154.0	88.2	19.3							
G84.0	150.3	84.7	14.9							
G85.0	147.0	81.3	11.0							
G86.0	143.4	77.9	7.8							
G87.0	139.9	74.6	4.7							
G88.0	136.7	71.4	2.7							
G89.0	133.2	68.3	0.8							
G90.0	129.8	65.3	0.0							
G91.0	126.6	62.5	0.0							
G92.0	123.5	59.6	0.0							
G93.0	120.1	56.8	0.0							
G94.0	116.8	54.2	0.0							
G95.0	113.5	51.8	0.0							
G96.0	110.5	49.5	0.0							
G97.0	107.4	47.0	0.0							
G98.0	104.3	44.1	0.0							
G99.0	101.3	38.0	0.0							
G100.0	98.3	33.9	0.0							
G101.0	95.3	30.8	0.0							
G102.0	92.2	29.4	0.0							
G103.0	89.6	27.8	0.1							
G104.0	84.5	25.9	0.1							
G105.0	67.3	24.0	0.1							
G106.0	61.9	23.2	0.2							
G107.0	59.3	22.2	0.2							
G108.0	56.7	21.2	0.3							
G109.0	55.7	20.6	0.3							
G110.0	60.1	20.1	0.3							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	60.5	19.4	0.3							
G112.0	59.3	18.9	0.3							
G113.0	57.5	17.7	0.4							
G114.0	55.3	17.0	0.4							
G115.0	53.6	16.7	0.5							
G116.0	51.3	15.5	0.4							
G117.0	49.5	15.7	0.5							
G118.0	47.7	15.6	0.7							
G119.0	45.7	15.1	0.5							
G120.0	43.9	14.6	0.8							
G121.0	42.1	14.2	0.8							
G122.0	40.3	13.6	0.7							
G123.0	38.6	13.4	0.7							
G124.0	36.9	12.6	0.9							
G125.0	35.2	11.9	0.8							
G126.0	33.8	11.3	0.8							
G127.0	32.6	11.3	1.0							
G128.0	31.3	11.1	0.9							
G129.0	30.1	10.4	0.9							
G130.0	28.5	10.0	1.1							
G131.0	26.7	9.3	1.1							
G132.0	26.0	8.8	1.1							
G133.0	25.0	8.5	1.1							
G134.0	24.3	8.0	1.2							
G135.0	23.3	7.6	1.2							
G136.0	22.6	7.2	1.2							
G137.0	21.6	6.8	1.3							
G138.0	20.7	6.4	1.3							
G139.0	20.0	6.1	1.3							
G140.0	19.1	6.2	1.3							
G141.0	18.2	6.0	1.3							
G142.0	17.0	5.9	1.4							
G143.0	15.7	5.6	1.5							
G144.0	14.8	5.4	1.5							
G145.0	14.1	5.2	1.4							
G146.0	13.3	5.0	1.6							
G147.0	12.5	4.9	1.6							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	11.7	4.8	1.5							
G149.0	10.9	4.8	1.7							
G150.0	10.1	4.7	1.5							
G151.0	9.5	4.6	1.8							
G152.0	8.8	4.2	1.6							
G153.0	8.2	4.2	1.7							
G154.0	7.6	4.3	1.7							
G155.0	7.1	4.2	1.9							
G156.0	6.7	4.1	1.9							
G157.0	6.4	4.2	1.8							
G158.0	6.1	4.0	1.9							
G159.0	6.0	3.9	2.0							
G160.0	5.6	3.8	2.0							
G161.0	5.4	3.7	2.0							
G162.0	5.1	3.7	2.1							
G163.0	4.7	3.5	2.1							
G164.0	4.7	3.5	2.2							
G165.0	4.4	3.5	2.2							
G166.0	4.4	3.4	2.2							
G167.0	4.1	3.3	2.2							
G168.0	4.1	3.3	2.3							
G169.0	3.8	3.1	2.3							
G170.0	3.8	3.2	2.2							
G171.0	3.6	3.1	2.3							
G172.0	3.5	2.9	2.4							
G173.0	3.2	2.8	2.3							
G174.0	3.1	2.8	2.4							
G175.0	3.0	2.7	2.4							
G176.0	2.7	2.6	2.3							
G177.0	2.7	2.5	2.5							
G178.0	2.5	2.4	2.3							
G179.0	2.4	2.5	2.3							
G180.0	2.4	2.4	2.4							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector: