

Report No.:

Test Time: 2017-06-21 14:57

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: SH902

Lamp Description: SLM C 830 1202 L09 G1

Lumens per Lamp: 962.2

Luminous Width (mm): 45

Voltage: 219.7 V

Power: 9.02 W

Lamp Catalog: COB

Number of Lamps: 1

Luminous Length (mm): 45

Luminous Height (mm): 15

Current: 0.076 A

Power Factor: 0.546

## Photometric Results

CIE Class: Direct

Measurement Flux: 746.8 lm

Downward Ratio: 76.73%

Horizontal Diffuse Angle(50%): H42.4

Vertical Diffuse Angle(50%): V41.8

Luminaire Efficacy Rating (LER): 82.84

Max. Intensity: 973.04 cd

S/MH(C0/C180): 0.69

Total Rated Lamp Lumens: 962.2 lm

Efficiency: 77.61%

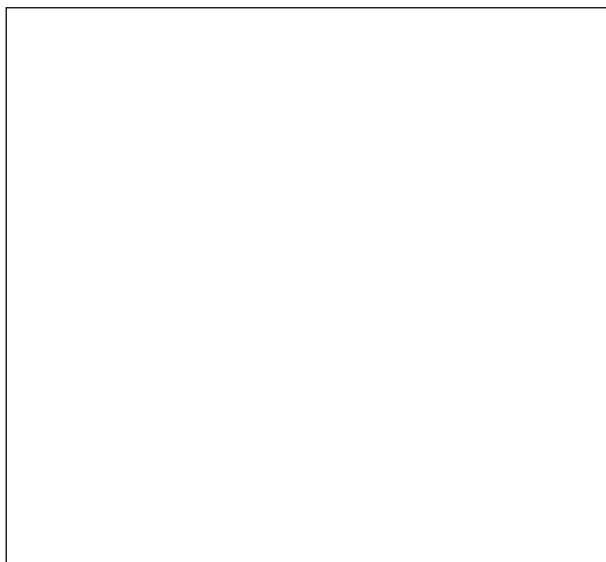
Upward Ratio: 0.88%

Central Intensity: 971.49 cd

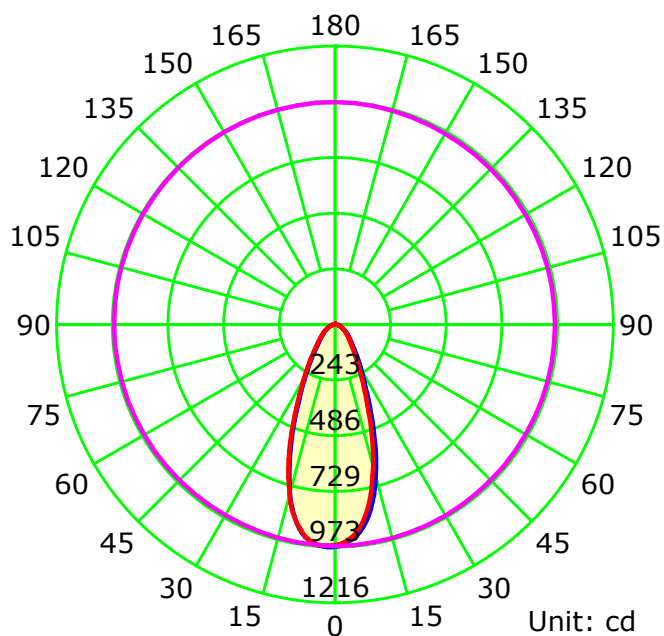
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.68

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

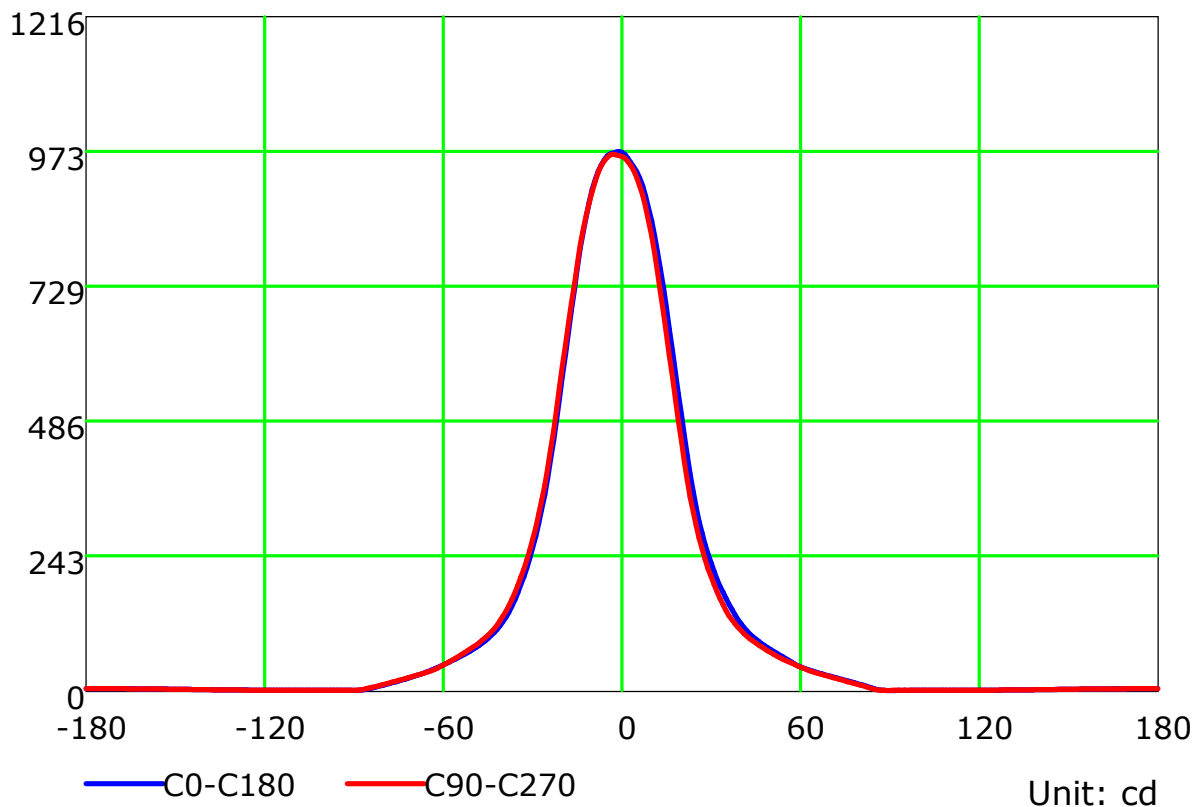
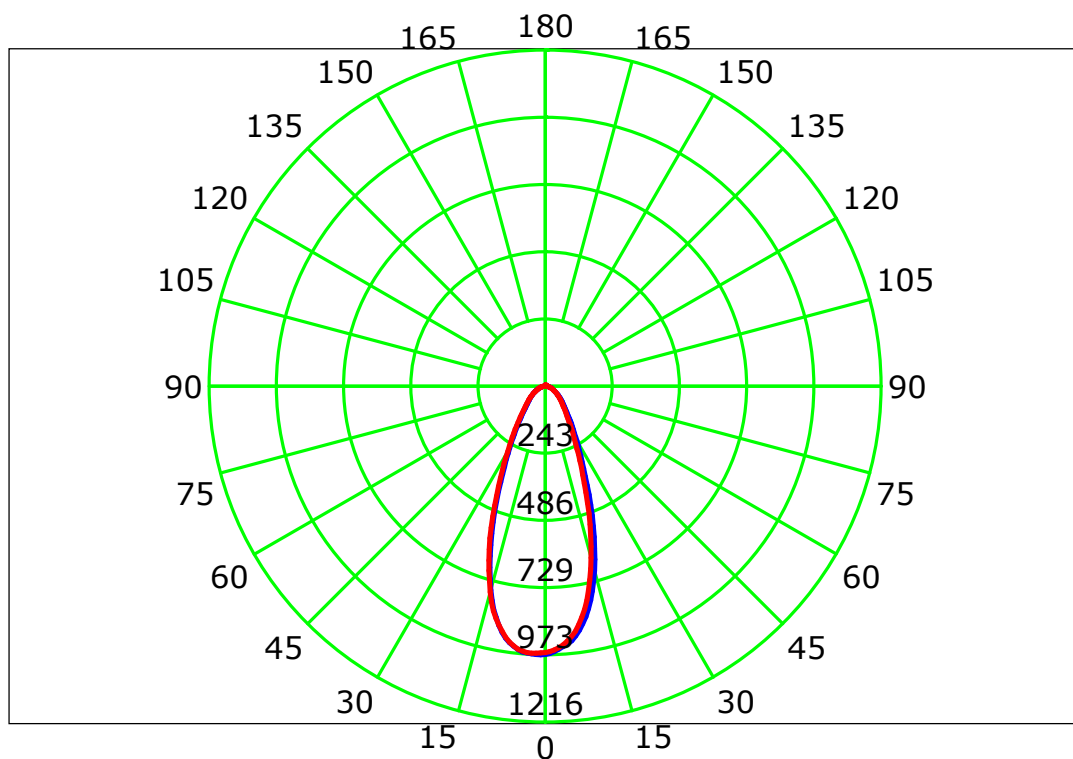
Test Device: GPM-1800B

Distance: 7.704 m

Humidity:

Inspector:

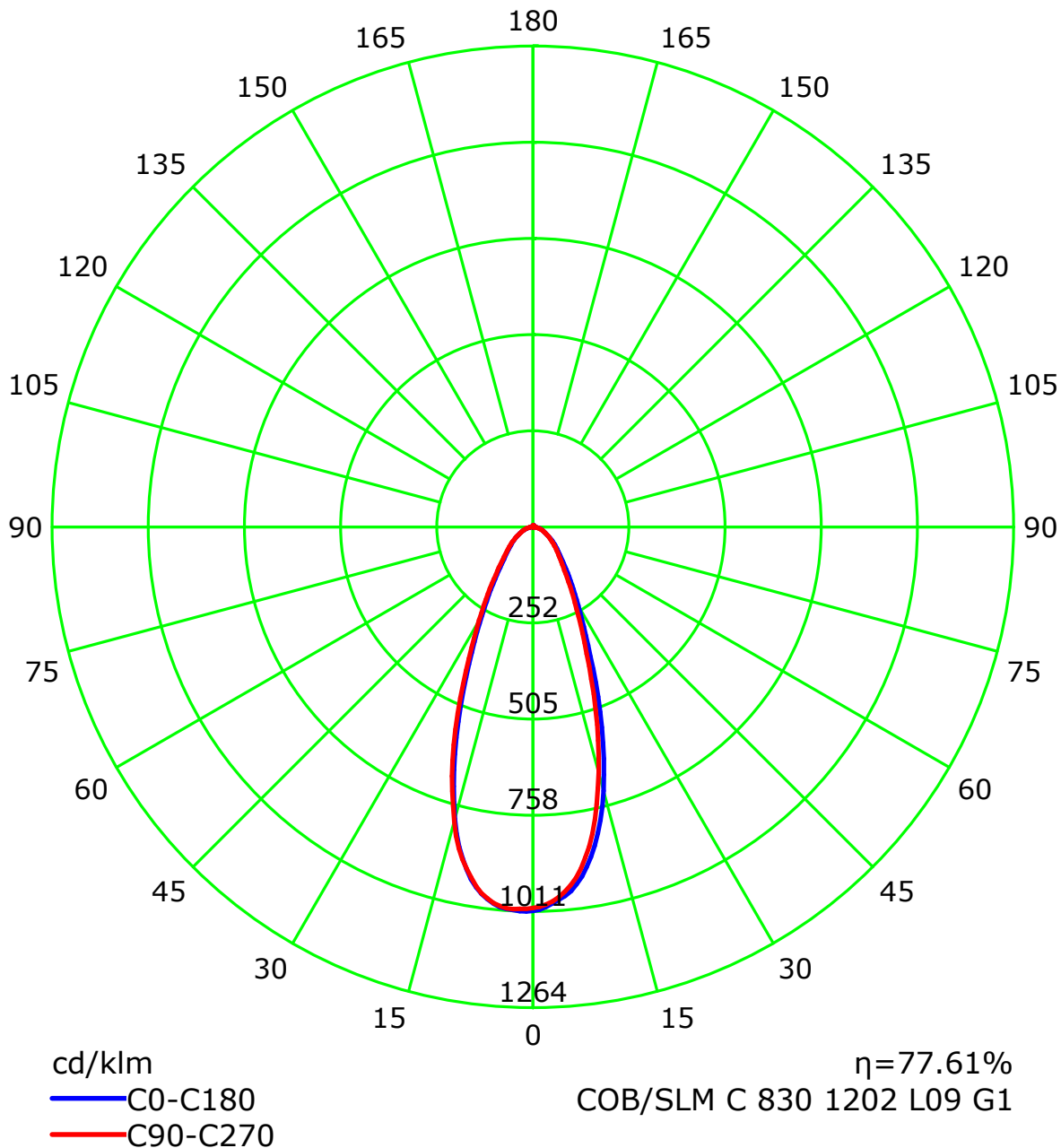
## Luminous Intensity Distribution Curve



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: 7.704 m  
Humidity:  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



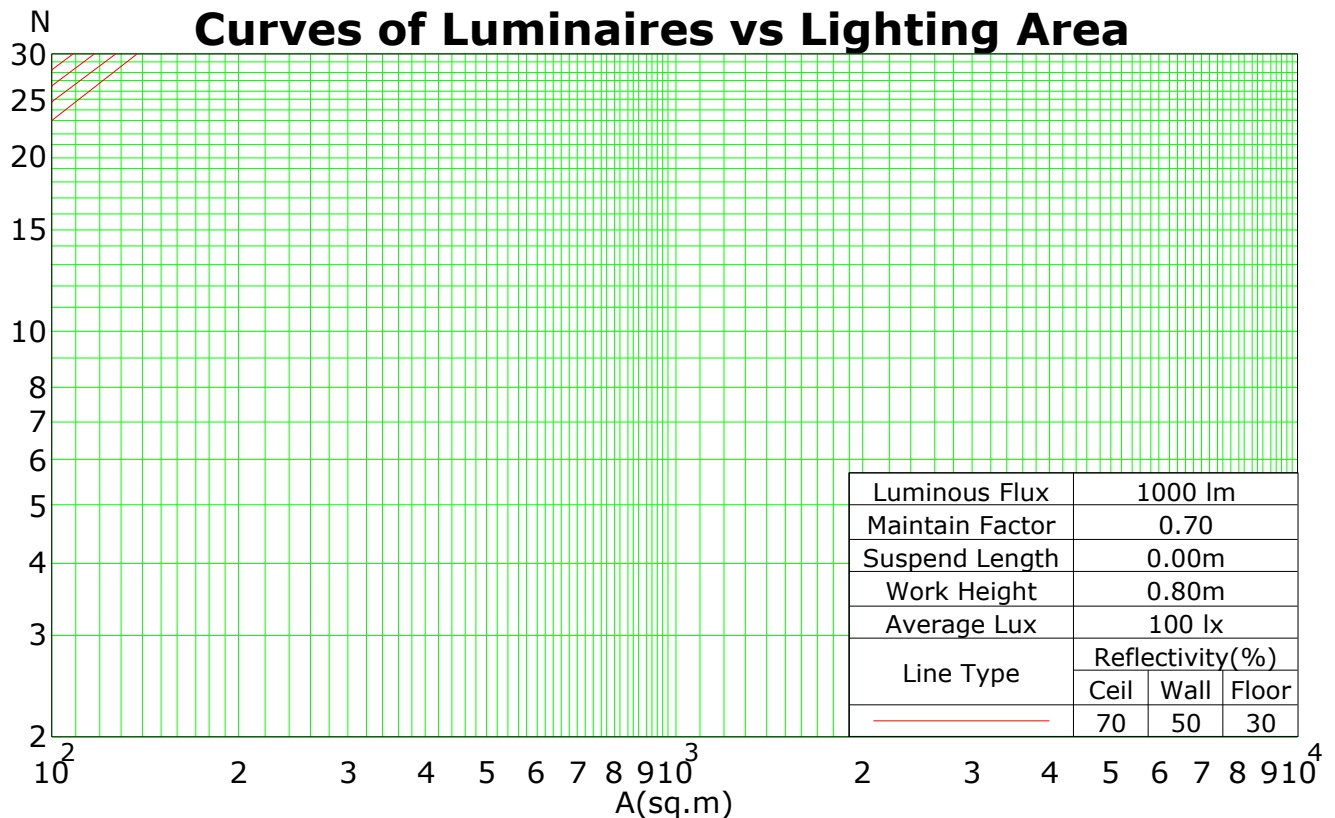
## Coefficients Of Utilization - Zonal Cavity Method

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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	78	78	78	77
1	87	84	82	80	85	82	80	78	79	77	76	76	75	73	73	72	71	69
2	81	77	73	70	80	75	72	69	73	70	67	70	68	66	68	66	64	63
3	77	71	66	62	75	69	65	62	67	64	61	65	62	60	63	61	59	57
4	72	65	60	56	70	64	60	56	62	58	55	61	57	54	59	56	54	52
5	68	61	55	52	67	60	55	51	58	54	51	57	53	50	55	52	50	48
6	64	57	51	48	63	56	51	47	55	50	47	53	49	47	52	49	46	45
7	61	53	48	44	60	52	47	44	51	47	44	50	46	43	49	46	43	42
8	58	50	45	41	57	49	44	41	48	44	41	47	44	41	47	43	40	39
9	55	47	42	39	54	47	42	39	46	41	38	45	41	38	44	41	38	37
10	53	45	40	36	52	44	40	36	43	39	36	43	39	36	42	39	36	35

Spacing Criteria (0-180): 0.69

Spacing Criteria (90-270): 0.68

Spacing Criteria (Diagonal): 0.68



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

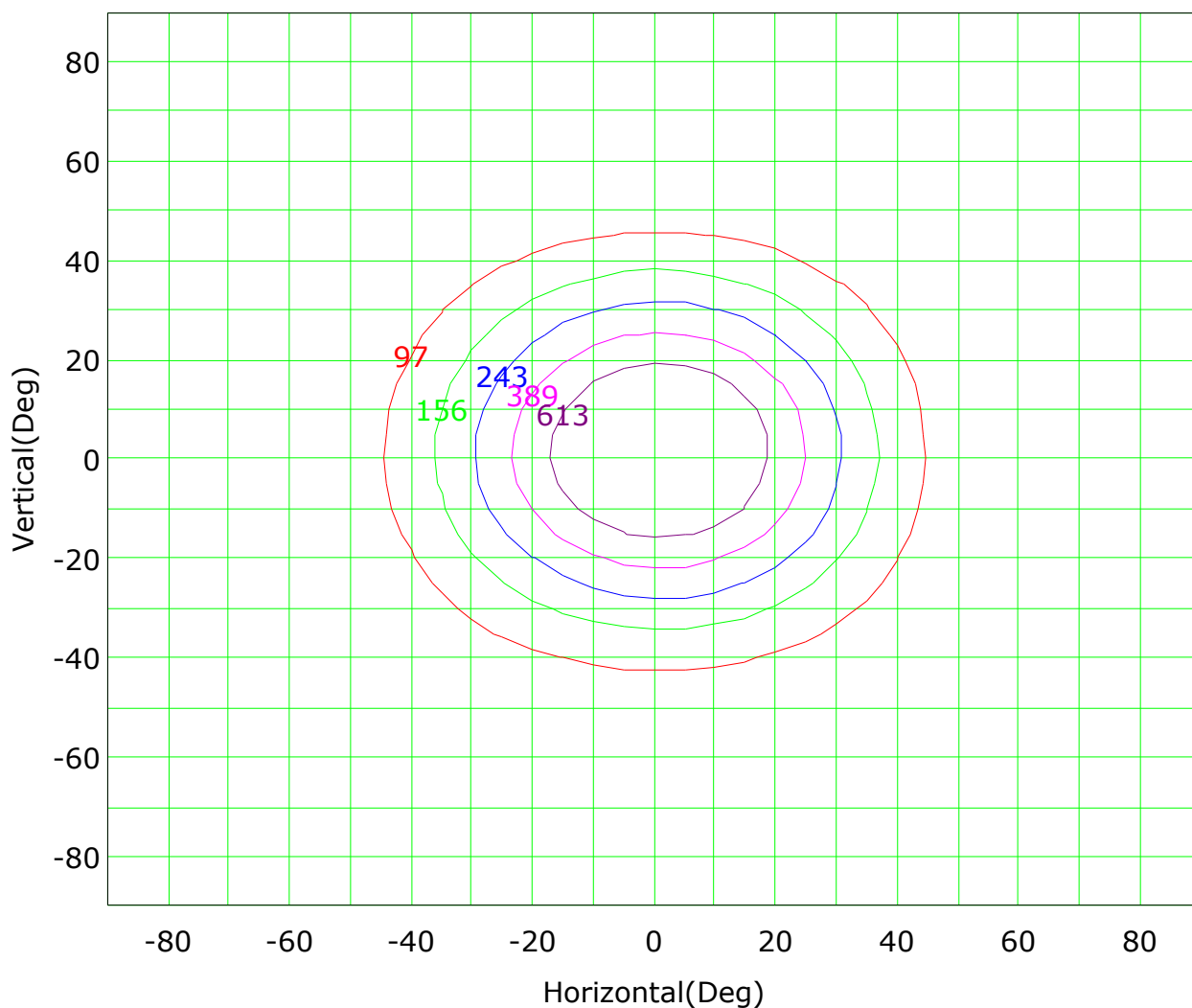
Test Device: GPM-1800B

Distance: 7.704 m

Humidity:

Inspector:

## Isocandela (rectangle)



Imax (100%): 973 cd

( 10%):	97 cd	( 16%):	156 cd
( 25%):	243 cd	( 40%):	389 cd
( 63%):	613 cd	(100%):	973 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

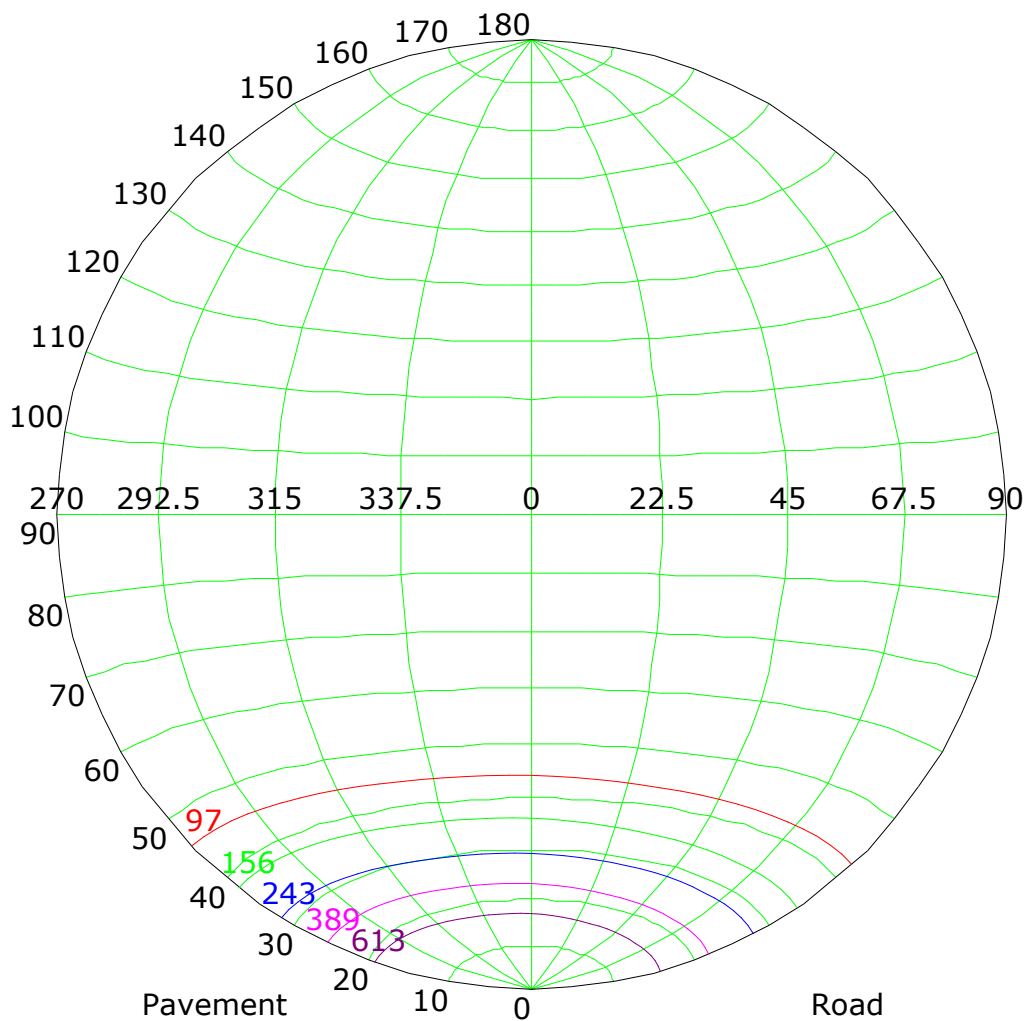
Test Device: GPM-1800B

Distance: 7.704 m

Humidity:

Inspector:

## Isocandela (sphere)



Imax (100%): 973 cd

( 10%): 97 cd	( 16%): 156 cd
( 25%): 243 cd	( 40%): 389 cd
( 63%): 613 cd	(100%): 973 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

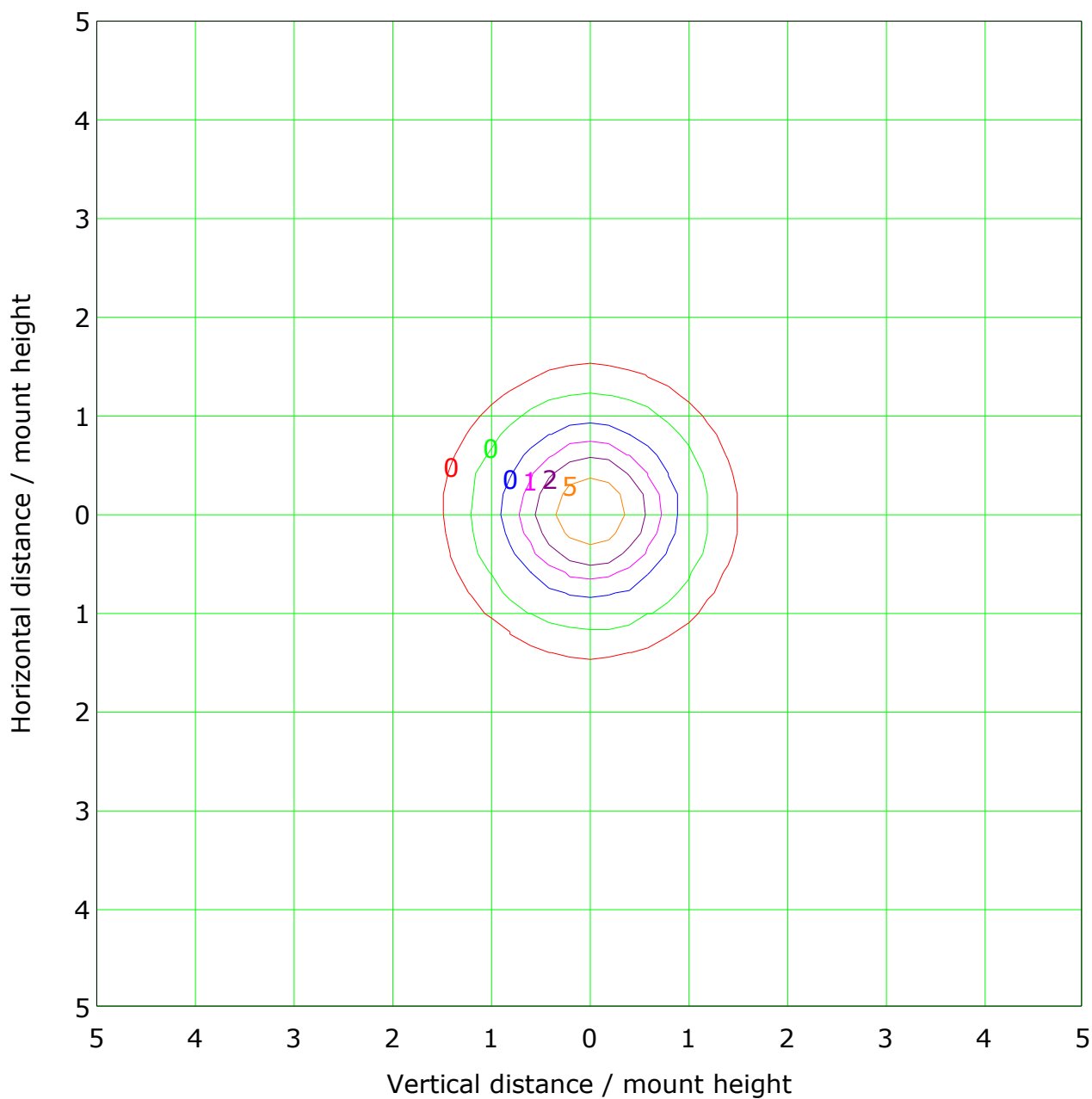
Test Device: GPM-1800B

Distance: 7.704 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 9.7 lx

( 1%): 0.1 lx	( 2%): 0.2 lx
( 5%): 0.5 lx	( 10%): 1.0 lx
( 20%): 1.9 lx	( 50%): 4.9 lx
(100%): 9.7 lx	

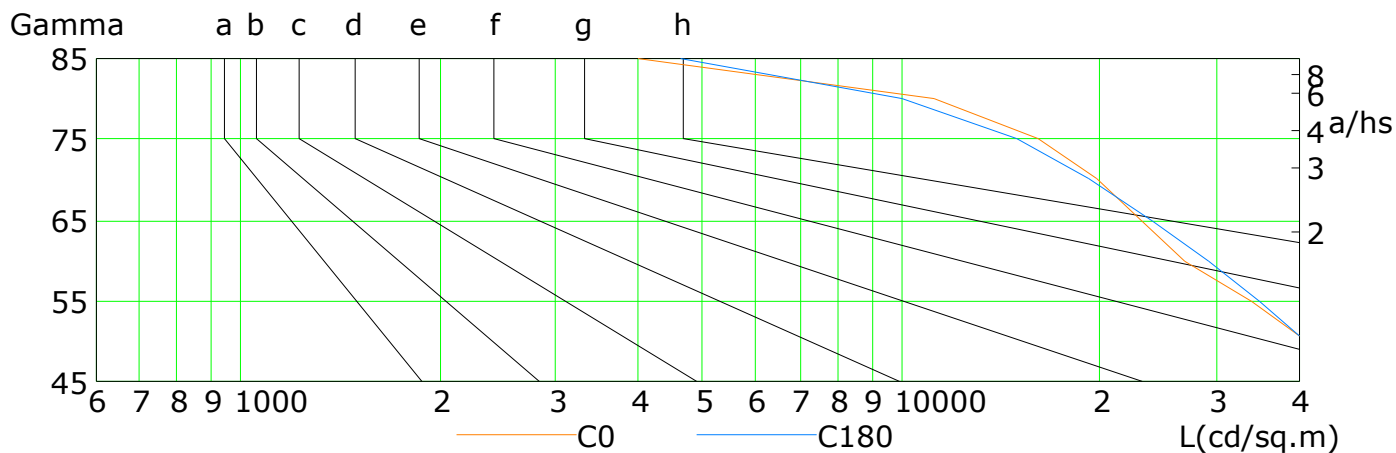
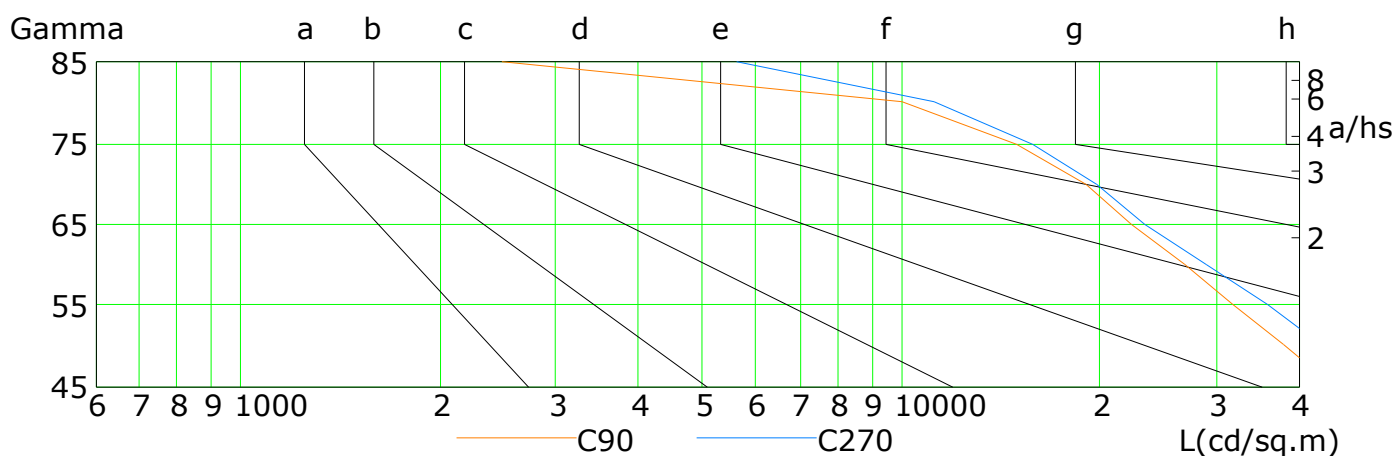
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 7.704 m  
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	48879	40836	33953	26937	23086	19798	16146	11206	3982
C90	45098	37818	31859	26768	22282	18984	14999	9986	2486
C180	49618	41111	34904	29235	23938	19180	14948	10045	4618
C270	52572	43305	35925	28997	23379	19783	15840	11226	5642

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

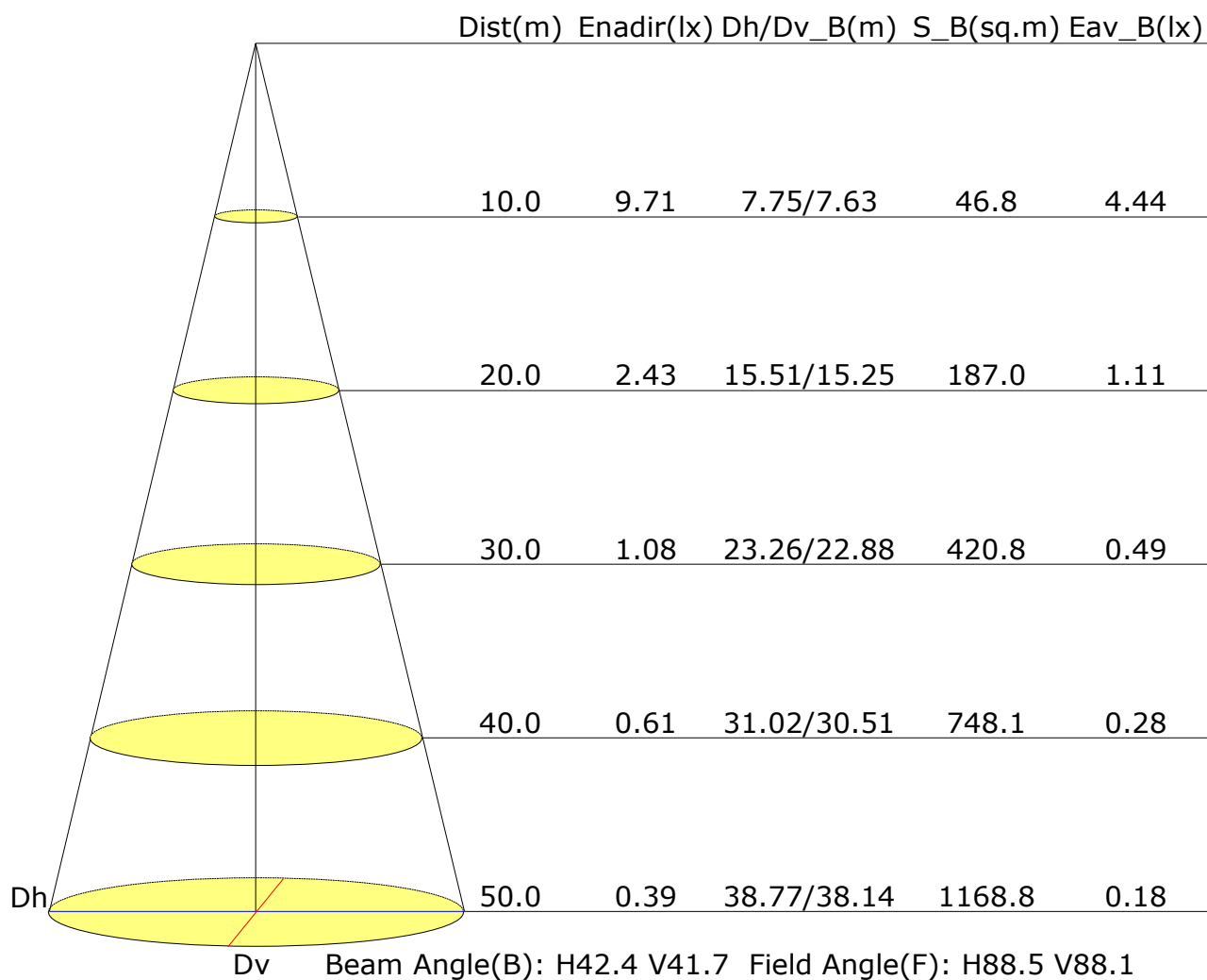
Distance: 7.704 m

Humidity:

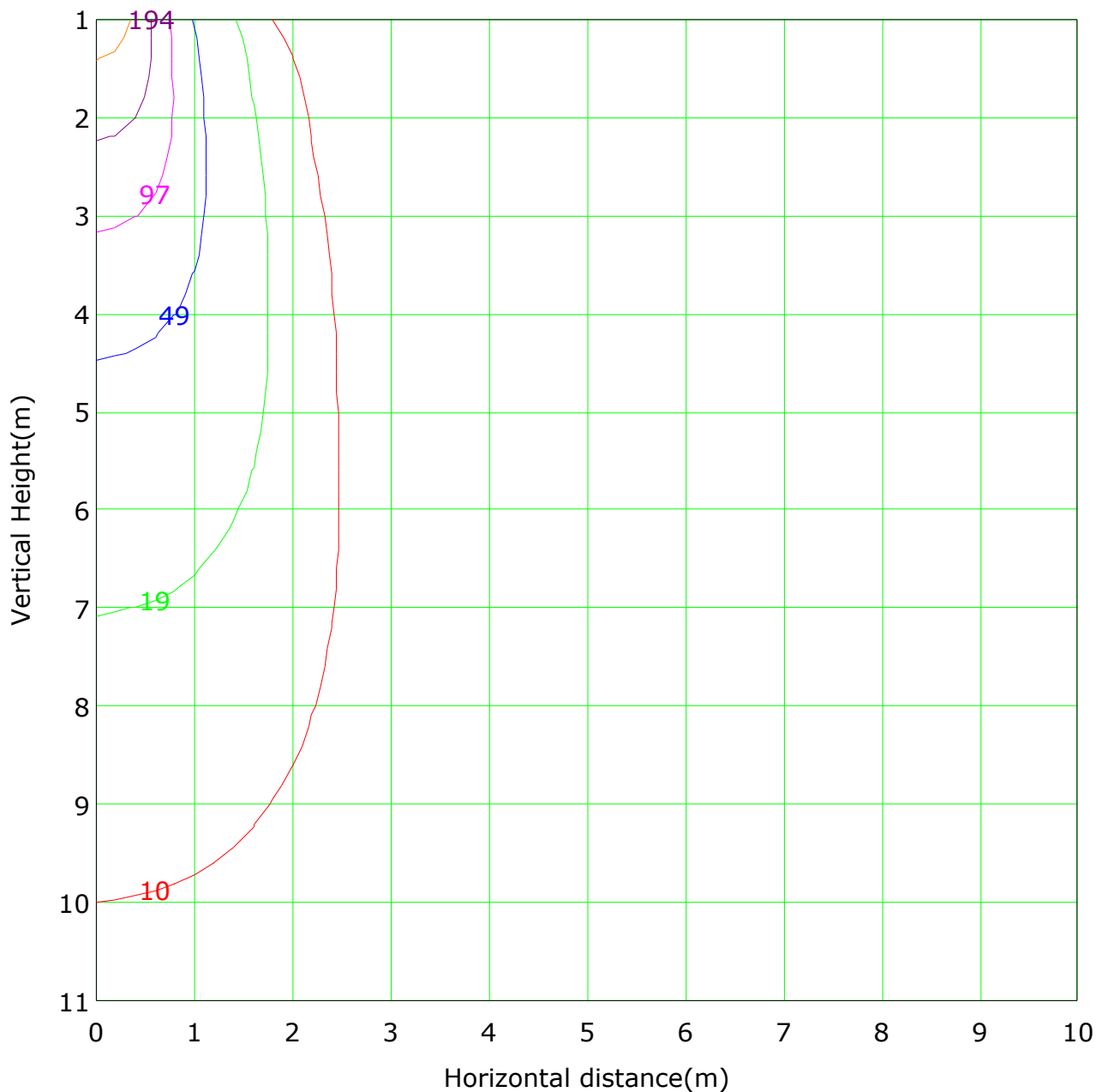
Inspector:



## Illuminance at a Distance



## Vertical IsoLux Plot



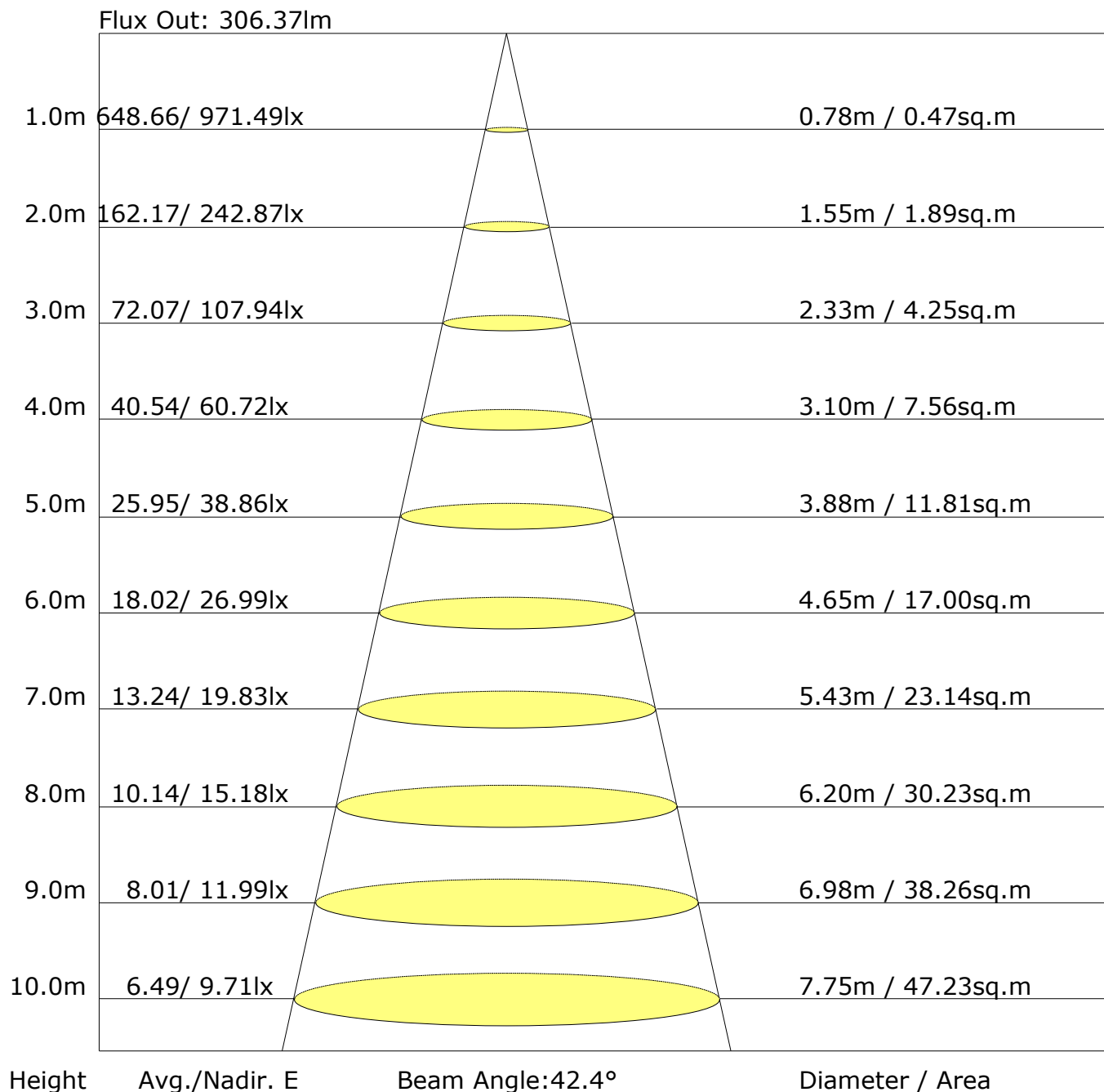
Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 971.5 lx  
— ( 1%): 9.7 lx                      — ( 2%): 19.4 lx  
— ( 5%): 48.6 lx                      — ( 10%): 97.1 lx  
— ( 20%): 194.3 lx                    — ( 50%): 485.7 lx  
— (100%): 971.5 lx

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: 7.704 m  
Humidity:  
Inspector:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 7.704 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	22.2	23.2	22.5	23.5	23.7	22.3	23.3	22.6	23.5	23.7
3H	23.1	24.0	23.4	24.2	24.5	23.1	24.0	23.4	24.2	24.5
4H	23.4	24.2	23.7	24.5	24.8	23.4	24.2	23.7	24.5	24.8
6H	23.6	24.4	24.0	24.7	25.0	23.6	24.4	23.9	24.7	25.0
8H	23.7	24.4	24.0	24.7	25.1	23.6	24.4	24.0	24.7	25.0
12H	23.6	24.4	24.0	24.7	25.1	23.6	24.3	24.0	24.7	25.0
X=4H Y=2H	22.5	23.4	22.9	23.7	24.0	22.6	23.4	22.9	23.7	24.0
3H	23.5	24.3	23.9	24.6	25.0	23.5	24.3	23.9	24.6	25.0
4H	24.0	24.6	24.4	25.0	25.4	24.0	24.6	24.4	25.0	25.4
6H	24.3	24.9	24.7	25.3	25.7	24.2	24.8	24.7	25.2	25.6
8H	24.3	24.9	24.8	25.3	25.7	24.3	24.8	24.7	25.2	25.7
12H	24.4	24.8	24.8	25.3	25.7	24.3	24.8	24.8	25.2	25.7
X=8H Y=4H	24.1	24.6	24.5	25.0	25.5	24.1	24.6	24.5	25.0	25.4
6H	24.5	24.9	24.9	25.3	25.8	24.4	24.8	24.9	25.3	25.8
8H	24.6	24.9	25.1	25.4	25.9	24.5	24.9	25.0	25.4	25.9
12H	24.6	24.9	25.1	25.4	25.9	24.5	24.9	25.0	25.4	25.9
X=12H Y=4H	24.1	24.5	24.5	25.0	25.4	24.1	24.5	24.5	25.0	25.4
6H	24.5	24.8	25.0	25.3	25.8	24.4	24.8	24.9	25.3	25.8
8H	24.6	24.9	25.1	25.4	25.9	24.5	24.9	25.0	25.3	25.9
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.5					+0.7/-0.6				
S=1.5H	+1.1/-1.1					+1.6/-1.2				
S=2.0H	+2.1/-1.5					+2.7/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with  $962lm$  ( $8\log(F/F_0) = -0.1$ ).

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: 7.704 m  
 Humidity:  
 Inspector:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	349	36.3
	FL ( 0°-30°)	211	21.9
	FM (30°-60°)	110	11.4
	FH (60°-80°)	26	2.7
	FVH (80°-90°)	2	0.2
	BACK LIGHT	389	40.5
	BL ( 0°-30°)	237	24.6
	BM (30°-60°)	123	12.8
	BH (60°-80°)	27	2.8
	BVH (80°-90°)	3	0.3
	UP LIGHT	8	0.9
	UL (90°-100°)	1	0.1
	UH (100°-180°)	8	0.8
	TRAPPED LIGHT	215	22.4

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G0

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: 7.704 m  
Humidity:  
Inspector:

## 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	971.5	968.3	965.8	964.1	963.4	962.7	971.5	968.3	965.8	964.1
G1.0	968.1	963.8	961.6	961.0	961.6	962.8	973.0	971.2	968.8	966.0
G2.0	961.4	955.6	954.2	955.7	958.7	961.4	972.3	972.1	971.0	967.0
G3.0	953.4	946.3	945.0	948.5	953.9	958.5	970.5	971.6	971.2	968.0
G4.0	945.0	937.2	934.5	938.7	946.1	953.4	968.4	970.3	969.6	966.8
G5.0	936.8	926.9	921.8	926.4	936.2	945.9	965.2	968.3	967.6	962.6
G6.0	926.1	913.7	905.9	911.3	924.6	937.0	958.2	964.2	963.0	956.5
G7.0	910.8	897.7	886.8	894.3	909.1	924.7	948.5	956.8	956.4	947.3
G8.0	892.5	877.0	863.6	872.7	888.8	908.3	937.5	946.8	946.7	935.7
G9.0	871.0	853.3	838.3	847.7	864.8	890.5	923.1	934.2	934.1	920.0
G10.0	847.7	826.6	811.0	821.0	840.6	871.4	904.8	918.8	917.7	900.9
G11.0	821.2	796.8	781.4	790.1	813.1	849.2	882.5	899.7	898.7	880.7
G12.0	791.7	765.3	749.8	756.0	782.6	823.2	857.4	875.9	877.6	859.5
G13.0	761.1	732.7	714.7	719.7	748.1	792.9	830.5	850.1	853.0	835.3
G14.0	727.5	697.1	676.2	681.1	710.5	756.4	799.3	821.4	823.2	805.7
G15.0	691.3	657.2	639.1	643.2	673.0	719.7	764.2	787.3	789.9	771.3
G16.0	652.4	619.0	601.7	604.4	635.1	683.4	724.9	750.8	754.3	734.7
G17.0	613.5	578.5	562.5	565.7	596.8	646.7	685.9	712.9	718.1	698.7
G18.0	574.6	538.7	523.8	526.7	557.7	607.6	646.6	672.5	682.0	663.2
G19.0	536.2	501.0	485.3	488.0	517.7	567.3	607.8	633.2	644.8	625.0
G20.0	498.3	463.6	448.2	450.2	479.5	528.0	567.9	594.7	605.7	586.6
G21.0	460.4	427.3	410.8	413.0	443.6	488.7	528.0	555.9	565.4	548.5
G22.0	424.7	394.1	377.4	380.3	409.4	451.9	489.4	516.5	524.3	509.0
G23.0	390.9	362.8	346.3	349.2	376.9	416.5	452.0	477.6	484.7	470.3
G24.0	358.7	333.1	318.0	321.9	347.2	383.5	416.8	440.0	447.6	435.3
G25.0	330.9	307.2	293.4	297.7	321.0	353.8	383.4	405.6	412.4	401.2
G26.0	305.4	283.5	272.1	275.1	296.7	326.6	353.5	373.9	379.4	370.6
G27.0	283.4	263.3	252.9	255.0	274.4	301.5	326.5	345.0	351.2	343.1
G28.0	263.4	245.7	234.8	236.6	253.2	277.8	301.7	318.9	324.3	318.4
G29.0	246.7	229.6	218.4	219.8	235.2	257.4	279.0	294.8	299.9	294.3
G30.0	230.0	214.4	203.7	205.2	219.4	239.1	258.1	272.7	277.5	273.1
G31.0	215.1	200.3	190.3	191.4	204.2	222.0	238.8	251.5	257.1	253.4
G32.0	201.1	188.1	178.0	178.7	189.9	206.8	221.8	232.9	238.8	235.9
G33.0	188.7	176.6	166.1	166.5	176.6	192.0	205.9	216.0	222.2	219.9
G34.0	177.6	165.9	155.2	155.3	164.2	177.8	191.3	200.6	205.9	204.8
G35.0	166.7	155.3	145.4	144.6	152.9	165.3	177.2	185.7	190.9	190.2
G36.0	156.2	145.6	136.3	135.8	143.0	153.6	164.1	172.6	177.1	176.9

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: 7.704 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	146.3	136.4	128.6	128.0	134.4	143.4	152.4	160.1	164.7	164.6
G38.0	137.1	128.2	121.4	121.2	126.2	134.3	141.7	149.1	153.6	153.3
G39.0	128.7	121.0	115.3	114.6	119.4	126.4	132.6	139.3	143.4	143.6
G40.0	121.0	114.4	109.6	108.7	113.1	118.8	124.6	130.4	134.3	134.6
G41.0	114.4	108.3	104.3	103.3	107.5	112.4	117.2	122.4	126.1	126.0
G42.0	108.3	102.7	99.4	98.6	102.3	106.9	110.7	115.2	118.7	118.4
G43.0	102.6	97.7	94.8	94.1	97.3	101.9	104.8	108.7	112.3	111.7
G44.0	97.6	93.2	90.8	89.9	92.9	97.2	99.5	103.2	106.3	105.6
G45.0	93.3	88.8	87.0	86.1	88.8	92.7	94.7	98.2	100.8	100.4
G46.0	89.0	84.4	83.3	82.2	84.8	88.3	90.1	93.3	96.0	95.6
G47.0	84.8	80.4	79.6	78.6	81.2	84.4	85.8	88.6	91.3	90.9
G48.0	81.3	76.8	76.3	75.3	77.8	80.8	81.7	84.4	86.9	86.6
G49.0	77.8	73.2	72.9	72.0	74.5	77.3	78.2	80.8	83.2	82.5
G50.0	74.3	69.5	69.5	68.8	71.2	73.9	74.8	77.3	79.3	78.8
G51.0	71.0	66.0	66.5	65.6	68.2	70.6	71.6	73.9	75.8	75.2
G52.0	67.8	62.8	63.4	62.6	65.3	67.5	68.5	70.6	72.4	71.7
G53.0	64.5	59.8	60.4	59.8	62.5	64.5	65.5	67.5	69.1	68.2
G54.0	61.4	57.0	57.3	57.2	59.8	61.8	62.7	64.5	65.9	64.9
G55.0	58.2	54.4	54.4	54.6	57.1	59.1	59.8	61.5	62.8	61.6
G56.0	55.1	51.7	51.5	52.1	54.4	56.5	57.1	58.6	59.8	58.4
G57.0	51.7	49.0	48.9	49.8	51.8	53.9	54.4	55.8	57.0	55.4
G58.0	48.4	46.5	46.6	47.4	49.2	51.5	51.7	53.0	54.2	52.3
G59.0	45.5	44.0	44.3	45.0	46.9	49.0	49.1	50.5	51.3	49.3
G60.0	43.0	41.7	42.1	42.8	44.5	46.7	46.7	47.9	48.8	46.3
G61.0	40.9	39.7	40.1	40.5	42.3	44.3	44.2	45.4	46.1	43.4
G62.0	39.0	37.8	38.0	38.4	40.1	42.0	41.9	42.9	43.6	40.8
G63.0	37.2	36.0	36.1	36.3	38.0	39.9	39.6	40.7	41.1	38.4
G64.0	35.5	34.3	34.5	34.4	35.9	37.8	37.3	38.4	38.8	36.2
G65.0	33.9	32.8	33.0	32.7	34.0	35.8	35.1	36.3	36.5	34.3
G66.0	32.3	31.2	31.3	31.2	32.0	33.8	33.0	34.3	34.4	32.5
G67.0	30.7	29.7	29.8	29.6	30.2	32.0	31.0	32.3	32.3	31.0
G68.0	29.2	28.3	28.2	28.2	28.5	30.1	29.1	30.4	30.4	29.3
G69.0	27.7	26.9	26.7	26.7	26.9	28.2	27.3	28.6	28.6	27.8
G70.0	26.3	25.5	25.2	25.2	25.4	26.3	25.5	26.8	26.9	26.3
G71.0	24.8	24.0	23.7	23.7	23.9	24.7	23.8	25.0	25.4	24.7
G72.0	23.4	22.6	22.1	22.2	22.4	23.0	22.2	23.3	23.8	23.1
G73.0	21.9	21.1	20.6	20.7	20.8	21.4	20.7	21.8	22.1	21.6

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: 7.704 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	20.5	19.6	19.1	19.2	19.3	19.7	19.1	20.2	20.6	20.1
G75.0	19.0	18.1	17.5	17.6	17.7	18.1	17.6	18.6	19.1	18.6
G76.0	17.5	16.5	16.0	16.1	16.1	16.5	16.1	17.1	17.5	17.1
G77.0	16.0	15.0	14.5	14.6	14.5	14.9	14.5	15.6	15.9	15.7
G78.0	14.4	13.5	13.0	13.1	13.1	13.4	13.1	14.0	14.5	14.2
G79.0	13.0	12.0	11.5	11.6	11.6	11.9	11.6	12.6	13.0	12.8
G80.0	11.4	10.5	10.0	10.1	10.1	10.3	10.2	11.1	11.6	11.4
G81.0	9.9	9.0	8.6	8.7	8.6	8.9	8.8	9.7	10.1	10.0
G82.0	8.3	7.4	7.1	7.2	7.3	7.5	7.6	8.4	8.7	8.6
G83.0	6.6	5.9	5.4	5.6	5.9	6.3	6.3	7.0	7.4	7.3
G84.0	5.2	4.3	3.7	3.9	4.4	5.0	5.2	5.8	6.1	6.1
G85.0	3.4	2.6	2.0	2.1	2.7	3.5	3.9	4.7	4.9	4.8
G86.0	2.1	1.4	1.2	1.3	1.6	2.2	2.7	3.4	3.6	3.6
G87.0	1.1	0.9	0.9	0.9	1.1	1.4	1.7	2.2	2.3	2.3
G88.0	0.8	0.6	0.6	0.6	0.6	0.9	1.1	1.4	1.5	1.4
G89.0	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.9	1.0
G90.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6
G91.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
G92.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
G93.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
G94.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
G95.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
G96.0	0.5	0.6	0.6	0.6	0.6	0.8	0.6	0.6	0.6	0.6
G97.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
G98.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
G99.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6
G100.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
G101.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
G102.0	0.6	0.6	0.7	0.6	0.7	0.6	0.7	0.6	0.6	0.6
G103.0	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7
G104.0	0.7	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.7
G105.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
G106.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
G107.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
G108.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7
G109.0	0.7	0.7	0.7	0.8	0.7	0.8	0.8	0.7	0.7	0.7
G110.0	0.7	0.8	0.7	0.8	0.7	0.7	0.8	0.7	0.6	0.8

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: 7.704 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	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8
G112.0	0.7	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8
G113.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
G114.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
G115.0	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8
G116.0	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8
G117.0	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8
G118.0	0.8	0.9	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9
G119.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9
G120.0	0.9	0.9	1.0	1.0	0.9	0.9	1.0	0.9	0.9	0.9
G121.0	0.9	0.9	1.0	1.0	0.9	0.9	1.0	0.9	0.9	1.0
G122.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0
G123.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
G124.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0
G125.0	1.0	1.0	1.1	1.1	1.0	1.0	1.1	1.1	0.9	1.1
G126.0	1.1	1.1	1.1	1.1	1.1	1.0	1.2	1.1	1.1	1.1
G127.0	1.1	1.1	1.2	1.2	1.1	1.1	1.2	1.1	1.1	1.1
G128.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.2
G129.0	1.2	1.2	1.2	1.2	1.2	1.1	1.3	1.2	1.2	1.2
G130.0	1.2	1.2	1.3	1.3	1.2	1.2	1.3	1.3	1.2	1.3
G131.0	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.3	1.3	1.3
G132.0	1.3	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.3	1.4
G133.0	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.4	1.3	1.4
G134.0	1.4	1.5	1.5	1.5	1.4	1.4	1.5	1.5	1.4	1.5
G135.0	1.5	1.5	1.6	1.6	1.5	1.4	1.6	1.6	1.5	1.5
G136.0	1.6	1.6	1.6	1.6	1.6	1.5	1.7	1.6	1.7	1.6
G137.0	1.6	1.7	1.7	1.7	1.6	1.6	1.7	1.7	1.6	1.6
G138.0	1.7	1.7	1.8	1.7	1.7	1.6	1.8	1.7	1.7	1.7
G139.0	1.8	1.8	1.8	1.8	1.8	1.7	1.9	1.8	1.8	1.8
G140.0	1.8	1.9	1.9	1.9	1.8	1.7	1.9	1.9	1.9	1.8
G141.0	1.9	2.0	2.0	1.9	1.9	1.8	2.0	1.9	1.9	2.0
G142.0	2.0	2.0	2.0	2.0	1.9	1.9	2.1	2.0	1.9	2.0
G143.0	2.0	2.1	2.1	2.1	2.0	2.0	2.2	2.1	2.1	2.1
G144.0	2.1	2.1	2.2	2.2	2.1	2.0	2.3	2.2	2.2	2.1
G145.0	2.2	2.3	2.3	2.2	2.2	2.1	2.3	2.3	2.2	2.2
G146.0	2.2	2.3	2.3	2.3	2.3	2.2	2.4	2.4	2.3	2.3
G147.0	2.3	2.4	2.4	2.4	2.3	2.3	2.5	2.4	2.4	2.5

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: 7.704 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	2.4	2.4	2.5	2.5	2.4	2.3	2.5	2.5	2.5	2.5
G149.0	2.5	2.5	2.5	2.5	2.5	2.4	2.6	2.5	2.5	2.5
G150.0	2.5	2.6	2.6	2.6	2.5	2.5	2.7	2.6	2.6	2.6
G151.0	2.6	2.6	2.7	2.7	2.6	2.5	2.8	2.5	2.7	2.7
G152.0	2.7	2.7	2.8	2.8	2.7	2.6	2.9	2.9	2.8	2.8
G153.0	2.8	2.8	2.8	2.8	2.8	2.7	2.9	2.8	2.8	2.8
G154.0	2.8	2.8	2.8	2.9	2.8	2.7	3.0	2.9	2.9	2.9
G155.0	2.9	2.9	3.0	2.9	2.9	2.8	3.1	3.0	3.0	3.0
G156.0	3.0	3.0	3.0	3.0	3.0	2.9	3.1	3.0	3.0	3.0
G157.0	3.0	3.0	3.1	3.1	3.0	3.0	3.2	3.0	3.1	3.1
G158.0	3.1	3.1	3.1	3.1	3.1	3.0	3.2	3.2	3.1	3.1
G159.0	3.1	3.1	3.2	3.2	3.1	3.1	3.3	3.3	3.2	3.2
G160.0	3.2	3.2	3.3	3.2	3.2	3.1	3.3	3.3	3.3	3.3
G161.0	3.2	3.2	3.3	3.3	3.2	3.2	3.4	3.4	3.3	3.3
G162.0	3.3	3.3	3.3	3.3	3.3	3.2	3.4	3.4	3.3	3.3
G163.0	3.3	3.3	3.3	3.3	3.3	3.3	3.5	3.4	3.4	3.4
G164.0	3.3	3.3	3.4	3.3	3.3	3.3	3.5	3.5	3.4	3.4
G165.0	3.2	3.3	3.4	3.4	3.4	3.3	3.5	3.5	3.5	3.5
G166.0	3.5	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.5
G167.0	3.3	3.4	3.4	3.4	3.5	3.4	3.5	3.5	3.5	3.5
G168.0	3.4	3.4	3.4	3.5	3.5	3.4	3.6	3.6	3.6	3.5
G169.0	3.5	3.5	3.6	3.5	3.5	3.5	3.6	3.6	3.6	3.5
G170.0	3.5	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.5
G171.0	3.7	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.6
G172.0	3.5	3.5	3.6	3.5	3.6	3.5	3.7	3.6	3.6	3.6
G173.0	3.6	3.5	3.6	3.6	3.5	3.6	3.7	3.7	3.6	3.6
G174.0	3.5	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.7	3.6
G175.0	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.6	3.6
G176.0	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.7	3.7
G177.0	3.7	3.6	3.6	3.7	3.6	3.6	3.7	3.7	3.7	3.7
G178.0	3.6	3.7	3.7	3.6	3.6	3.6	3.7	3.7	3.6	3.6
G179.0	3.7	3.7	3.7	3.7	3.6	3.6	3.7	3.6	3.7	3.6
G180.0	3.7	3.7	3.6	3.6	3.7	3.6	3.7	3.9	3.7	3.6

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: 7.704 m

Humidity:

Inspector:

## Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	963.4	962.7	971.5							
G1.0	963.7	960.7	968.1							
G2.0	963.0	956.3	961.4							
G3.0	961.0	950.8	953.4							
G4.0	958.0	945.1	945.0							
G5.0	952.7	937.8	936.8							
G6.0	944.3	927.3	926.1							
G7.0	933.1	913.8	910.8							
G8.0	918.8	896.8	892.5							
G9.0	900.8	878.4	871.0							
G10.0	880.3	858.1	847.7							
G11.0	858.3	833.9	821.2							
G12.0	833.8	806.2	791.7							
G13.0	806.0	774.6	761.1							
G14.0	773.9	740.8	727.5							
G15.0	738.8	704.9	691.3							
G16.0	701.7	668.3	652.4							
G17.0	665.2	631.2	613.5							
G18.0	628.0	594.1	574.6							
G19.0	590.2	555.6	536.2							
G20.0	552.4	517.7	498.3							
G21.0	514.3	480.0	460.4							
G22.0	476.1	443.9	424.7							
G23.0	439.9	408.5	390.9							
G24.0	407.3	376.1	358.7							
G25.0	375.6	346.1	330.9							
G26.0	347.1	319.2	305.4							
G27.0	321.0	296.0	283.4							
G28.0	297.1	275.0	263.4							
G29.0	275.1	256.5	246.7							
G30.0	254.9	238.9	230.0							
G31.0	237.6	222.8	215.1							
G32.0	222.0	207.9	201.1							
G33.0	207.5	194.8	188.7							
G34.0	193.4	182.6	177.6							
G35.0	180.2	170.6	166.7							
G36.0	168.1	159.6	156.2							

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: 7.704 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	156.6	149.4	146.3							
G38.0	146.3	139.4	137.1							
G39.0	136.9	131.0	128.7							
G40.0	128.5	123.2	121.0							
G41.0	121.1	116.4	114.4							
G42.0	114.2	110.1	108.3							
G43.0	107.9	104.4	102.6							
G44.0	102.4	99.0	97.6							
G45.0	97.3	94.3	93.3							
G46.0	92.7	89.8	89.0							
G47.0	88.2	85.6	84.8							
G48.0	84.1	81.6	81.3							
G49.0	80.5	78.0	77.8							
G50.0	77.1	75.0	74.3							
G51.0	73.4	71.7	71.0							
G52.0	69.8	68.3	67.8							
G53.0	66.4	65.1	64.5							
G54.0	62.9	61.8	61.4							
G55.0	59.4	58.6	58.2							
G56.0	56.1	55.4	55.1							
G57.0	52.7	52.2	51.7							
G58.0	49.4	49.2	48.4							
G59.0	46.4	46.3	45.5							
G60.0	43.7	43.7	43.0							
G61.0	41.3	41.5	40.9							
G62.0	39.1	39.6	39.0							
G63.0	37.2	37.8	37.2							
G64.0	35.4	36.0	35.5							
G65.0	33.7	34.3	33.9							
G66.0	32.1	32.7	32.3							
G67.0	30.5	31.1	30.7							
G68.0	29.0	29.5	29.2							
G69.0	27.5	28.1	27.7							
G70.0	26.0	26.5	26.3							
G71.0	24.5	25.0	24.8							
G72.0	23.1	23.5	23.4							
G73.0	21.6	22.1	21.9							

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: 7.704 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	20.1	20.6	20.5							
G75.0	18.7	19.1	19.0							
G76.0	17.3	17.6	17.5							
G77.0	15.8	16.1	16.0							
G78.0	14.4	14.6	14.4							
G79.0	12.9	13.1	13.0							
G80.0	11.5	11.6	11.4							
G81.0	10.1	10.1	9.9							
G82.0	8.7	8.6	8.3							
G83.0	7.3	7.0	6.6							
G84.0	5.9	5.5	5.2							
G85.0	4.5	4.0	3.4							
G86.0	3.2	2.5	2.1							
G87.0	2.0	1.5	1.1							
G88.0	1.2	1.0	0.8							
G89.0	0.9	0.6	0.6							
G90.0	0.6	0.6	0.6							
G91.0	0.6	0.6	0.6							
G92.0	0.6	0.6	0.6							
G93.0	0.6	0.6	0.6							
G94.0	0.6	0.6	0.6							
G95.0	0.6	0.6	0.6							
G96.0	0.6	0.6	0.5							
G97.0	0.6	0.6	0.6							
G98.0	0.6	0.6	0.6							
G99.0	0.6	0.6	0.6							
G100.0	0.6	0.7	0.6							
G101.0	0.6	0.6	0.6							
G102.0	0.6	0.7	0.6							
G103.0	0.7	0.7	0.6							
G104.0	0.7	0.6	0.7							
G105.0	0.7	0.7	0.7							
G106.0	0.7	0.7	0.7							
G107.0	0.7	0.7	0.7							
G108.0	0.8	0.7	0.7							
G109.0	0.7	0.7	0.7							
G110.0	0.7	0.7	0.7							

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: 7.704 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	0.7	0.8	0.8							
G112.0	0.8	0.8	0.7							
G113.0	0.8	0.8	0.8							
G114.0	0.8	0.9	0.8							
G115.0	0.8	0.8	0.8							
G116.0	0.9	0.9	0.8							
G117.0	0.9	0.9	0.8							
G118.0	0.9	0.9	0.8							
G119.0	0.9	0.9	0.9							
G120.0	0.9	0.9	0.9							
G121.0	1.0	1.0	0.9							
G122.0	1.0	1.0	0.9							
G123.0	1.0	1.0	1.0							
G124.0	1.0	1.1	1.0							
G125.0	1.1	1.1	1.0							
G126.0	1.1	1.2	1.1							
G127.0	1.2	1.2	1.1							
G128.0	1.2	1.2	1.2							
G129.0	1.3	1.3	1.2							
G130.0	1.3	1.4	1.2							
G131.0	1.3	1.4	1.3							
G132.0	1.4	1.4	1.3							
G133.0	1.5	1.5	1.4							
G134.0	1.5	1.6	1.4							
G135.0	1.6	1.6	1.5							
G136.0	1.6	1.7	1.6							
G137.0	1.7	1.8	1.6							
G138.0	1.8	1.8	1.7							
G139.0	1.8	1.9	1.8							
G140.0	1.9	1.9	1.8							
G141.0	2.0	2.0	1.9							
G142.0	2.1	2.1	2.0							
G143.0	2.2	2.2	2.0							
G144.0	2.2	2.3	2.1							
G145.0	2.3	2.3	2.2							
G146.0	2.4	2.5	2.2							
G147.0	2.5	2.5	2.3							

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: 7.704 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	2.5	2.6	2.4							
G149.0	2.6	2.7	2.5							
G150.0	2.7	2.8	2.5							
G151.0	2.7	2.8	2.6							
G152.0	2.8	2.9	2.7							
G153.0	2.9	3.0	2.8							
G154.0	2.9	3.0	2.8							
G155.0	3.0	3.0	2.9							
G156.0	3.1	3.1	3.0							
G157.0	3.1	3.2	3.0							
G158.0	3.2	3.3	3.1							
G159.0	3.3	3.3	3.1							
G160.0	3.3	3.3	3.2							
G161.0	3.3	3.4	3.2							
G162.0	3.4	3.4	3.3							
G163.0	3.4	3.4	3.3							
G164.0	3.5	3.4	3.3							
G165.0	3.5	3.5	3.2							
G166.0	3.5	3.5	3.5							
G167.0	3.5	3.5	3.3							
G168.0	3.5	3.5	3.4							
G169.0	3.5	3.5	3.5							
G170.0	3.6	3.5	3.5							
G171.0	3.6	3.5	3.7							
G172.0	3.6	3.5	3.5							
G173.0	3.6	3.6	3.6							
G174.0	3.6	3.6	3.5							
G175.0	3.6	3.6	3.6							
G176.0	3.7	3.6	3.6							
G177.0	3.6	3.6	3.7							
G178.0	3.6	3.6	3.6							
G179.0	3.6	3.7	3.7							
G180.0	3.7	3.7	3.7							

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: 7.704 m  
 Humidity:  
 Inspector: