

Report No.:

Test Time: 2016-04-18 20:26

## Luminaire Property

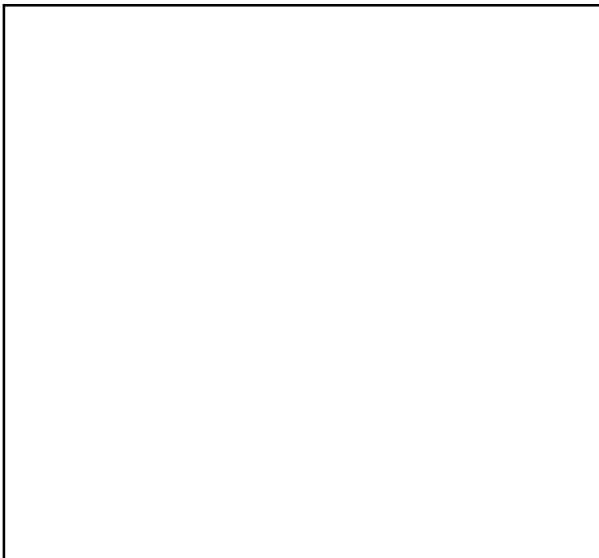
Luminaire Manufacturer: P.Q.L., Inc.  
Luminaire Description: 83244  
Current: 0.734 A  
Power Factor: 0.988

Voltage: 120.6 V  
Power: 89.20W

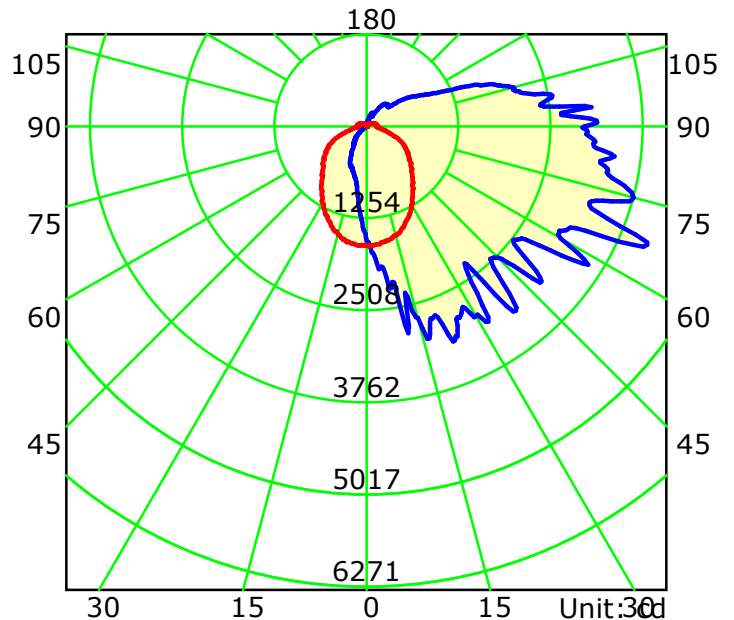
## Photometric Results

CIE Class: Semi-Direct	Total Rated Lamp Lumens: 9200.4 lm
Measurement Flux: 9200.4 lm	Efficiency: 100%
Downward Ratio: 78%	Upward Ratio: 22%
Horizontal Diffuse Angle(10%,25%,50%,75%): H180.5,H147.7,H114.6,H91.2	
Vertical Diffuse Angle(10%,25%,50%,75%): V165.4,V139.6,V94.9,V59.5	
Luminaire Efficacy Rating (LER): 103.19	Central Intensity: 1555.63 cd
Max. Intensity: 4146.5 cd	Pos of Max. Intensity: H0 V67
S/MH(C0/C180): 1.38	S/MH(C90/C270): 1.13

Picture Of Luminaire



Luminous Intensity Distribution Curve



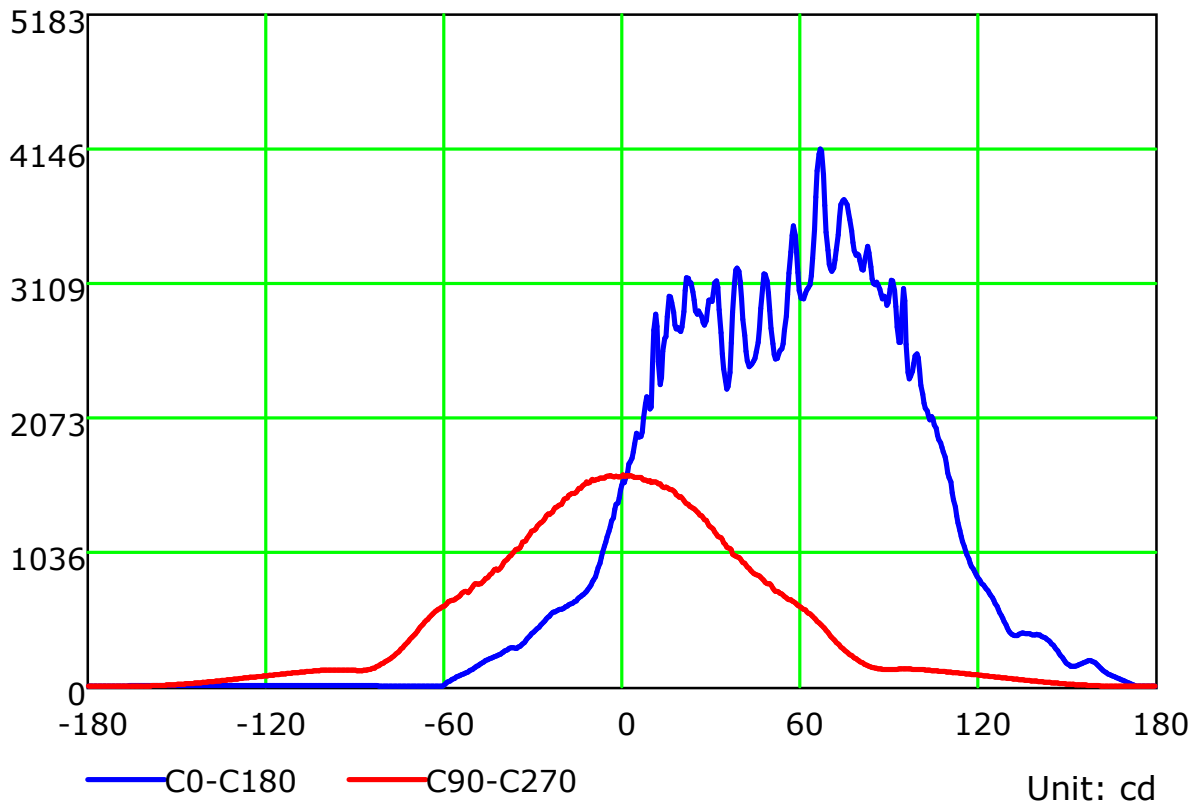
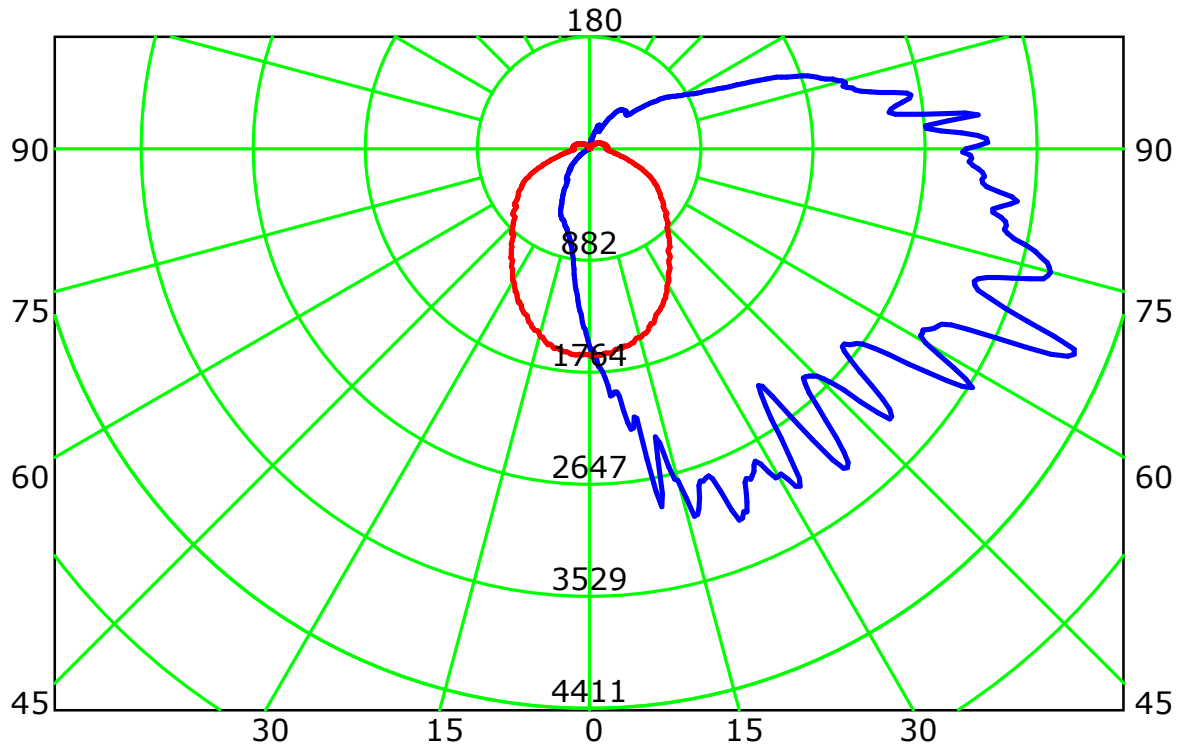
Average Diffuse Angle(50%): 99.8°

— C0-C180 — C90-C270

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

Gamma Plane (°):0.0-180.0:0.5  
Test Device: GPM-1600  
Distance: 8.800 m  
Humidity:  
Inspector:

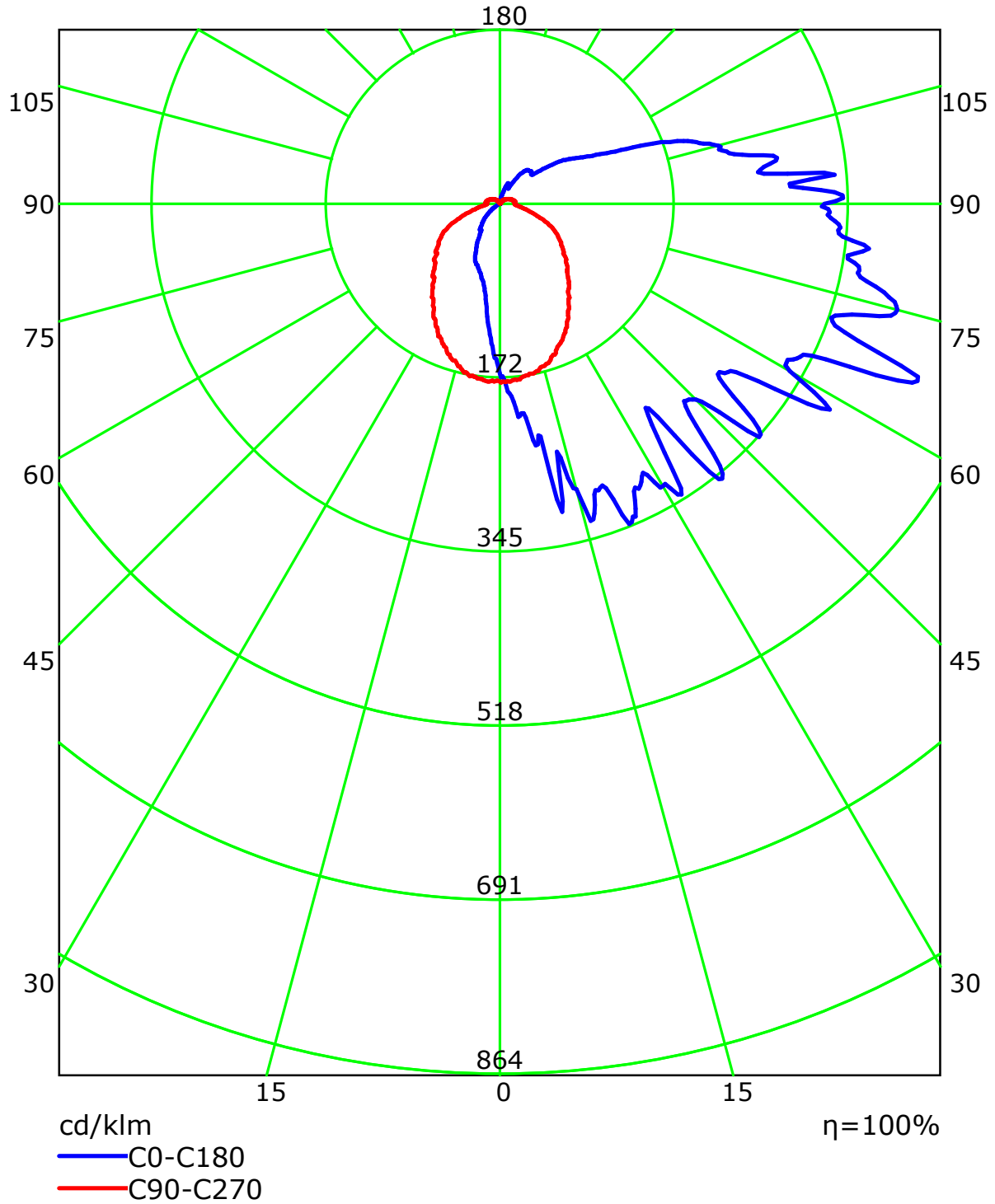
## Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-180.0:0.5  
Test Device: GPM-1600  
Distance: 8.800 m  
Humidity:  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



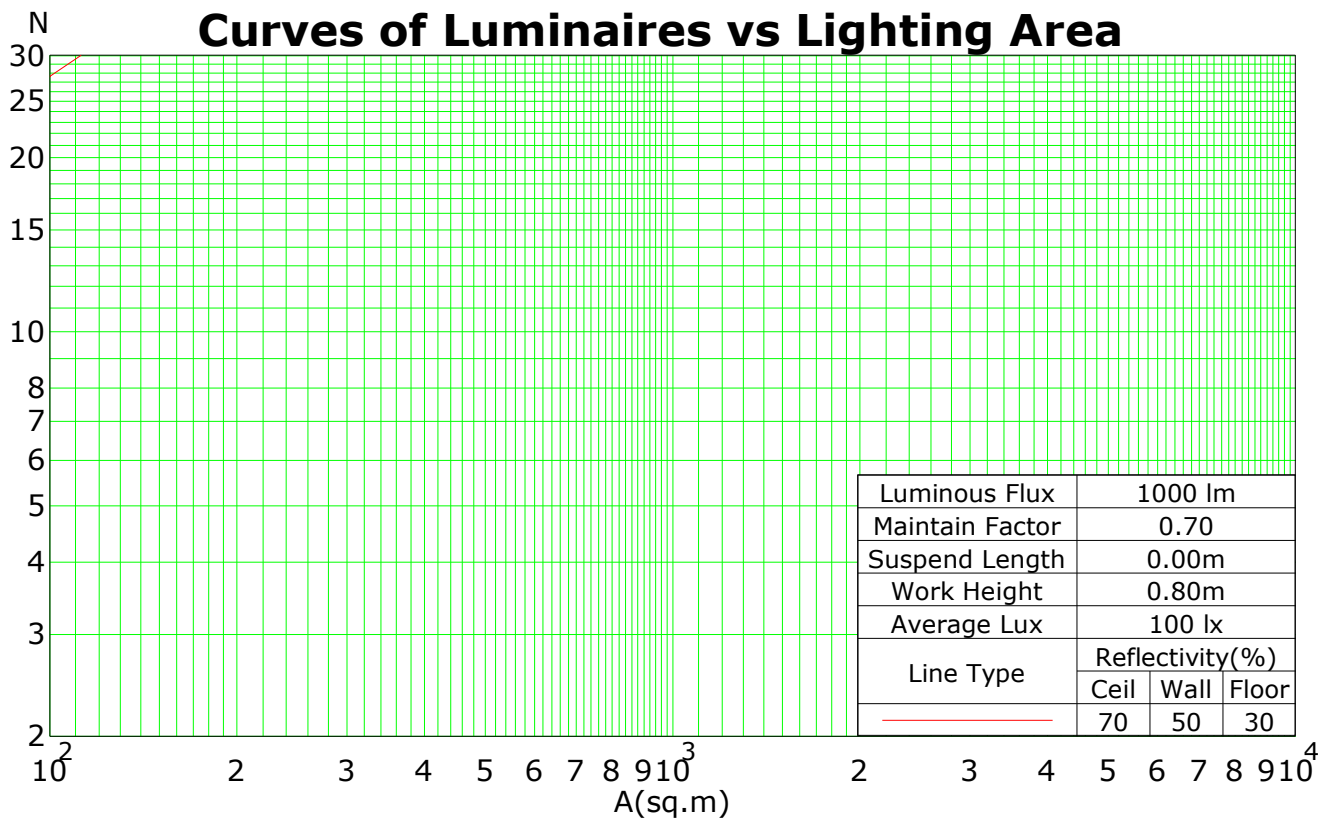
C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:0.5  
Test Device: GPM-1600  
Distance: 8.800 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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	99	93	87	82	94	88	83	78	80	75	72	72	68	65	65	62	60	56
2	89	79	70	63	84	75	67	61	67	61	56	61	56	51	54	50	47	43
3	80	68	58	51	75	64	56	49	58	51	45	52	46	42	47	42	38	35
4	73	59	50	42	68	56	47	41	51	43	38	46	40	35	41	36	32	29
5	67	53	43	36	63	50	41	34	45	38	32	41	35	29	37	31	27	24
6	61	47	37	31	58	45	36	30	41	33	28	37	30	26	33	28	24	21
7	57	42	33	27	53	40	32	26	37	29	24	33	27	22	30	25	21	18
8	53	38	30	23	50	37	28	23	34	26	21	31	24	20	28	22	18	16
9	49	35	27	21	46	34	26	20	31	24	19	28	22	18	26	20	17	14
10	46	32	24	19	43	31	23	18	28	22	17	26	20	16	24	19	15	13

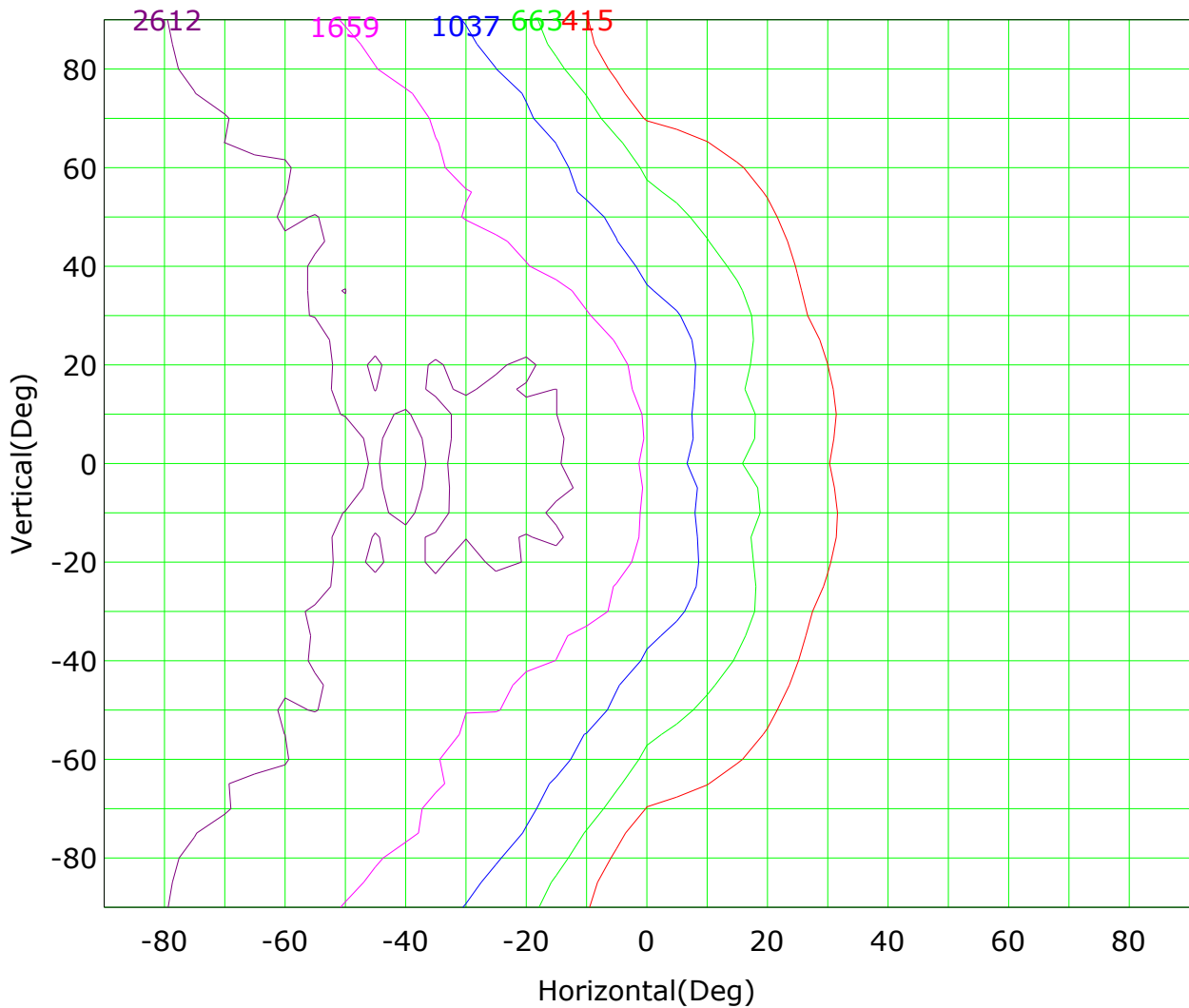
Spacing Criteria (0-180): 1.38  
 Spacing Criteria (90-270): 1.13  
 Spacing Criteria (Diagonal): 1.48



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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Isocandela (rectangle)



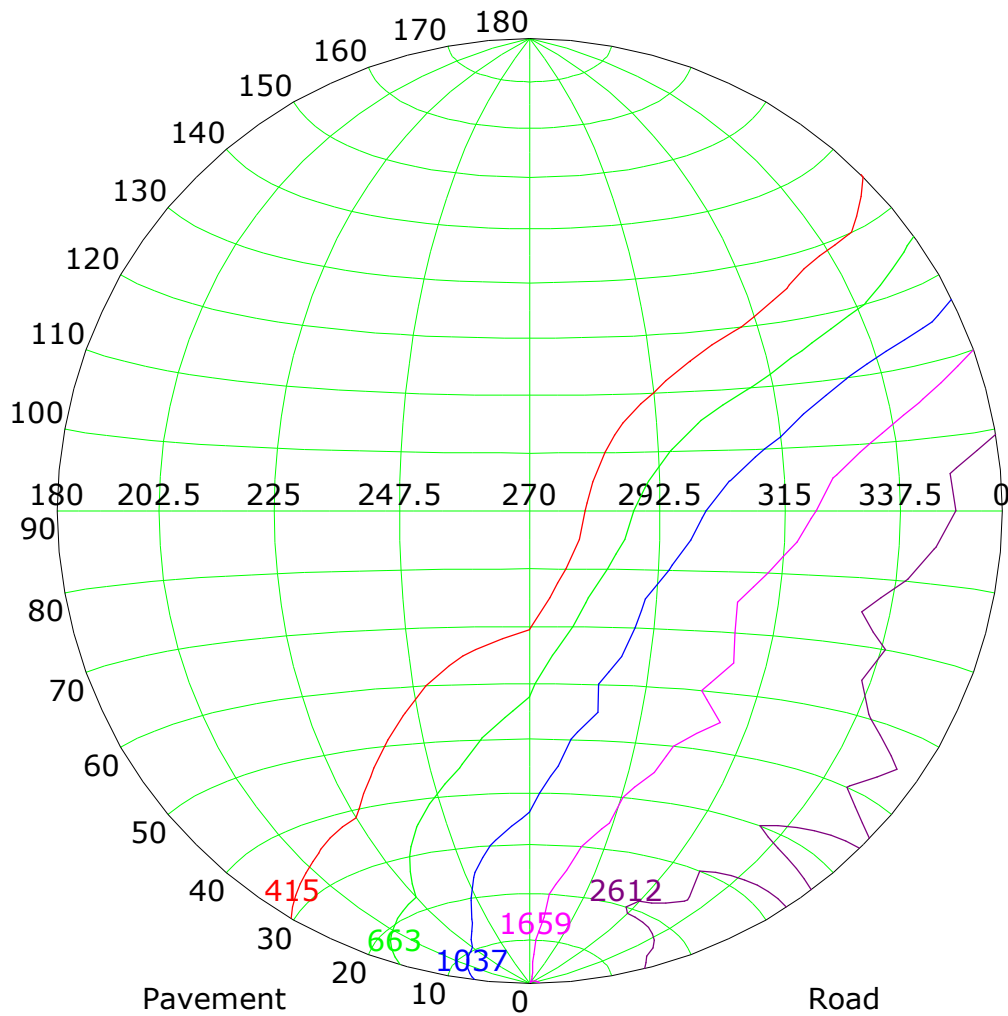
Imax (100%): 4147 cd

( 10%): 415 cd	( 16%): 663 cd
( 25%): 1037 cd	( 40%): 1659 cd
( 63%): 2612 cd	(100%): 4147 cd

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

Gamma Plane (°):0.0-180.0:0.5  
Test Device: GPM-1600  
Distance: 8.800 m  
Humidity:  
Inspector:

## Isocandela (sphere)



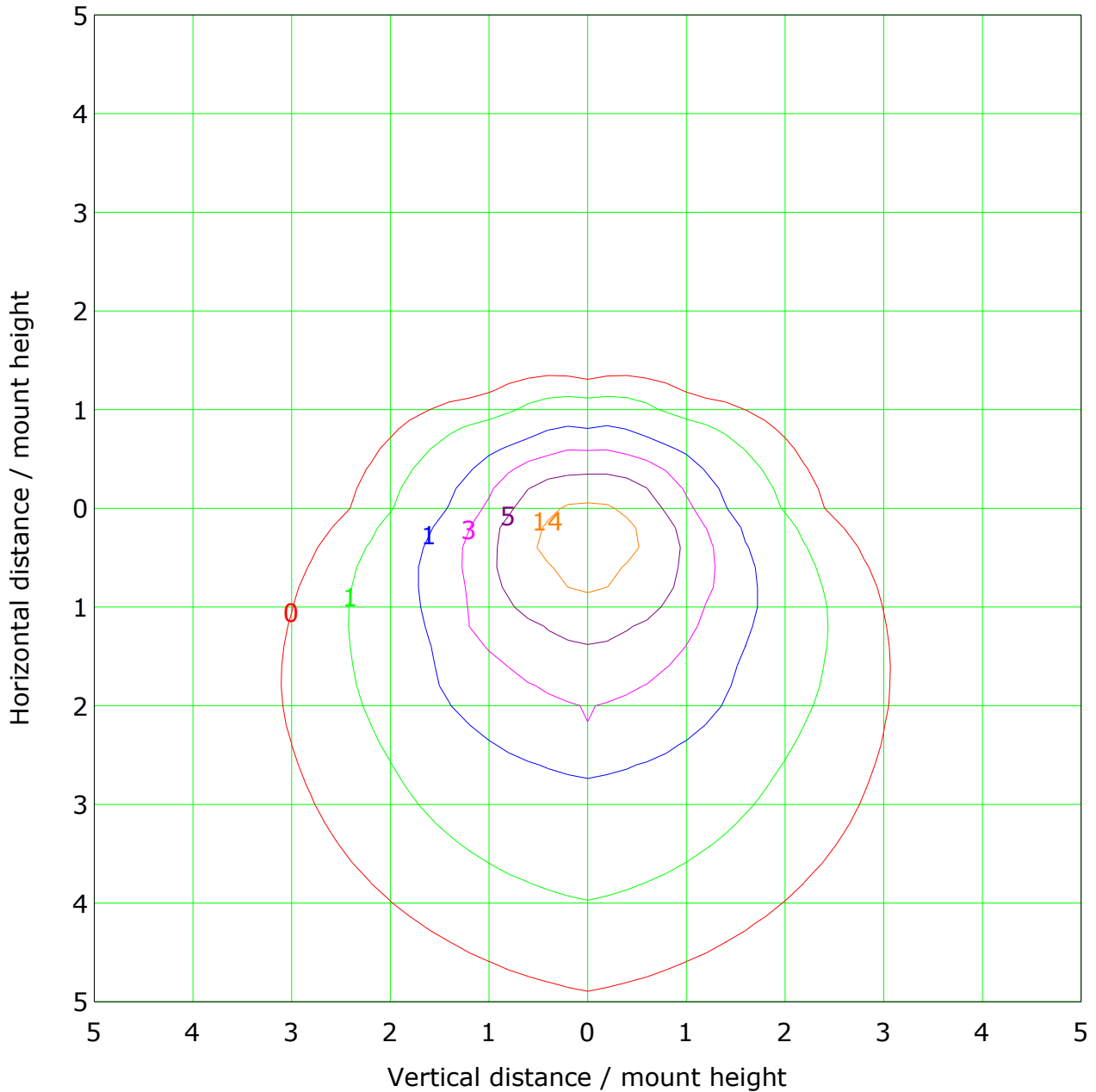
Imax (100%): 4147 cd

( 10%): 415 cd	( 16%): 663 cd
( 25%): 1037 cd	( 40%): 1659 cd
( 63%): 2612 cd	(100%): 4147 cd

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

Gamma Plane (°):0.0-180.0:0.5  
Test Device: GPM-1600  
Distance: 8.800 m  
Humidity:  
Inspector:

## IsoLux Plot



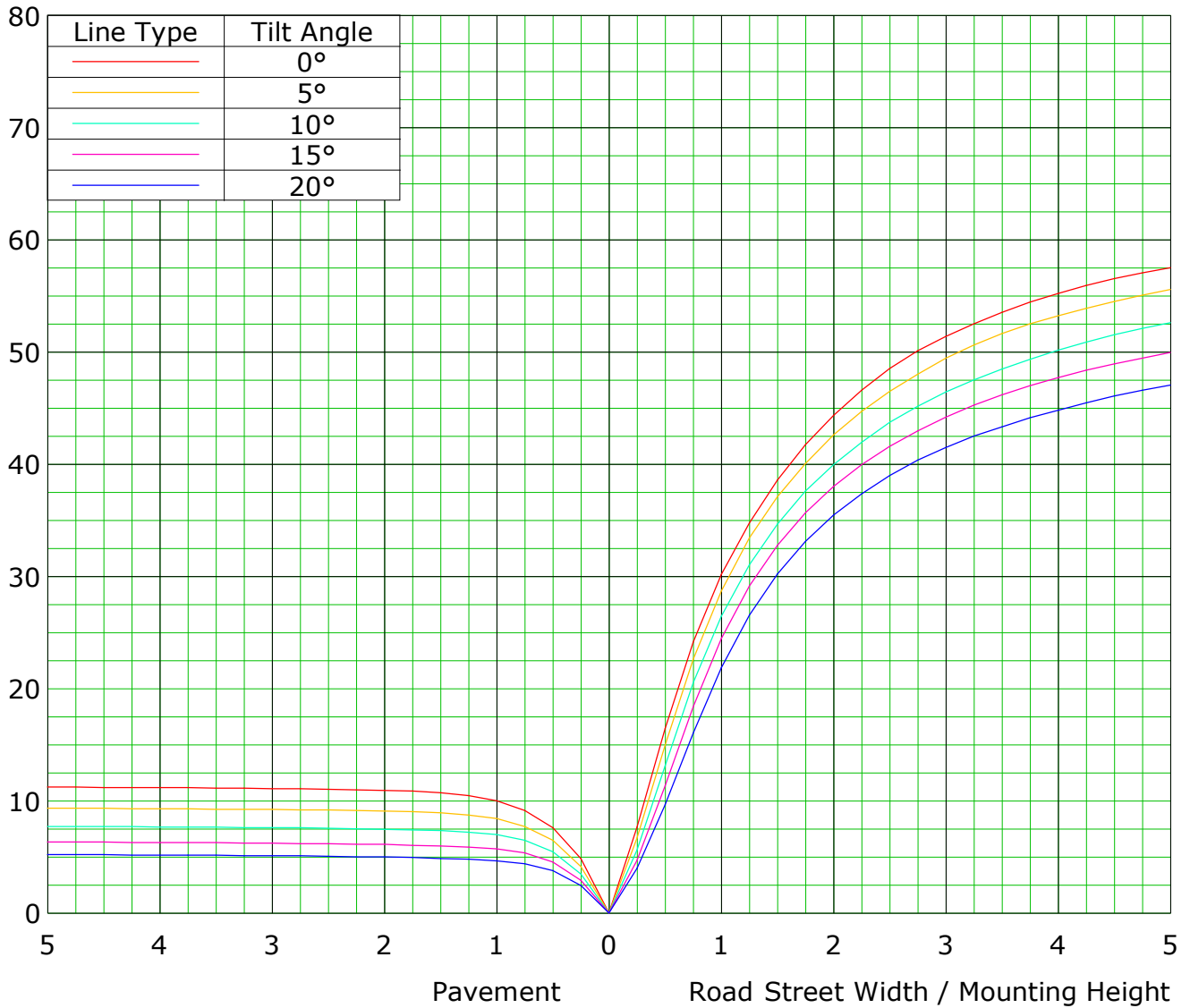
Mounting Height: 10.0m		Max Lux(100%): 27.1 lx	
( 1%): 0.3 lx	( 2%): 0.5 lx	( 10%): 2.7 lx	( 50%): 13.5 lx
( 5%): 1.4 lx	( 20%): 5.4 lx	(100%): 27.1 lx	

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

Gamma Plane (°):0.0-180.0:0.5  
Test Device: GPM-1600  
Distance: 8.800 m  
Humidity:  
Inspector:

## Roadway CU Curve

Efficiency(%)



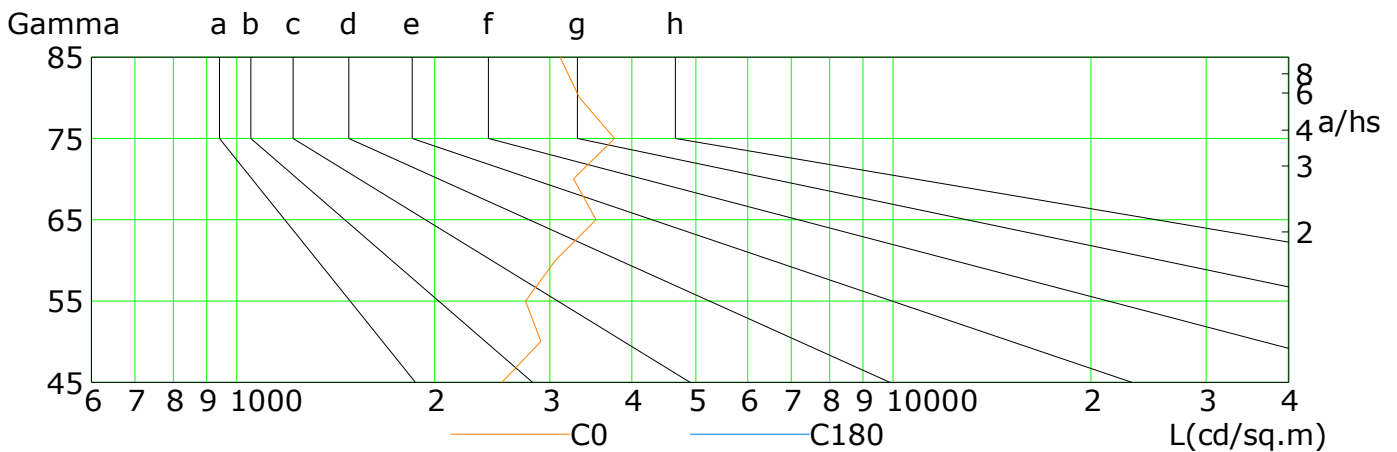
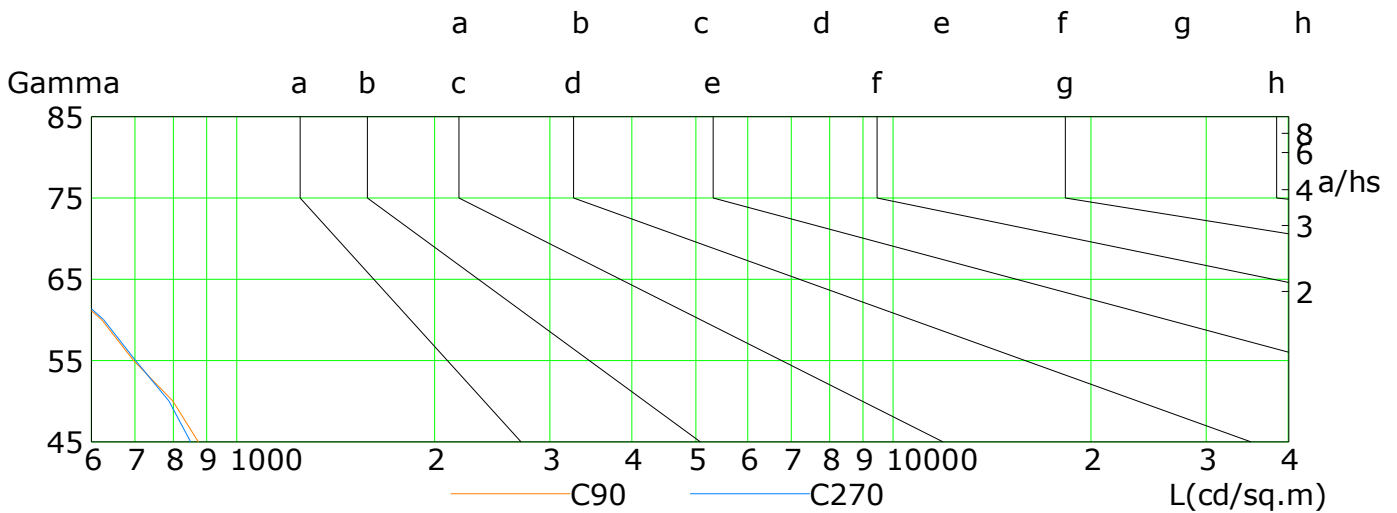
C Plane (°):0.0-360.0: 45.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:



## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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

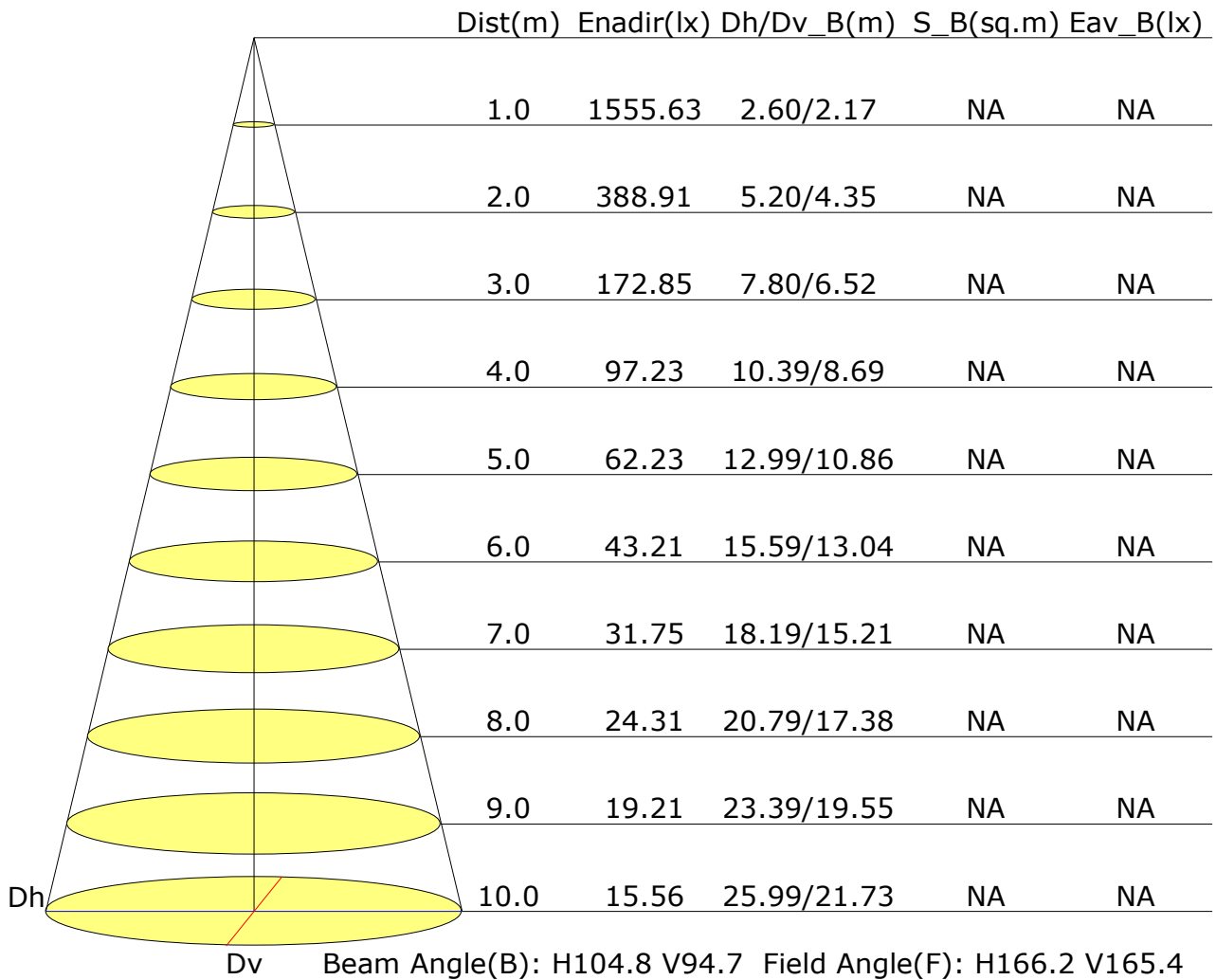


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2532	2905	2751	3057	3527	3261	3761	3329	3111
C90	873	799	697	623	532	408	289	204	149
C180	215	145	87	15	6	7	8	9	11
C270	851	788	701	626	537	400	281	193	136

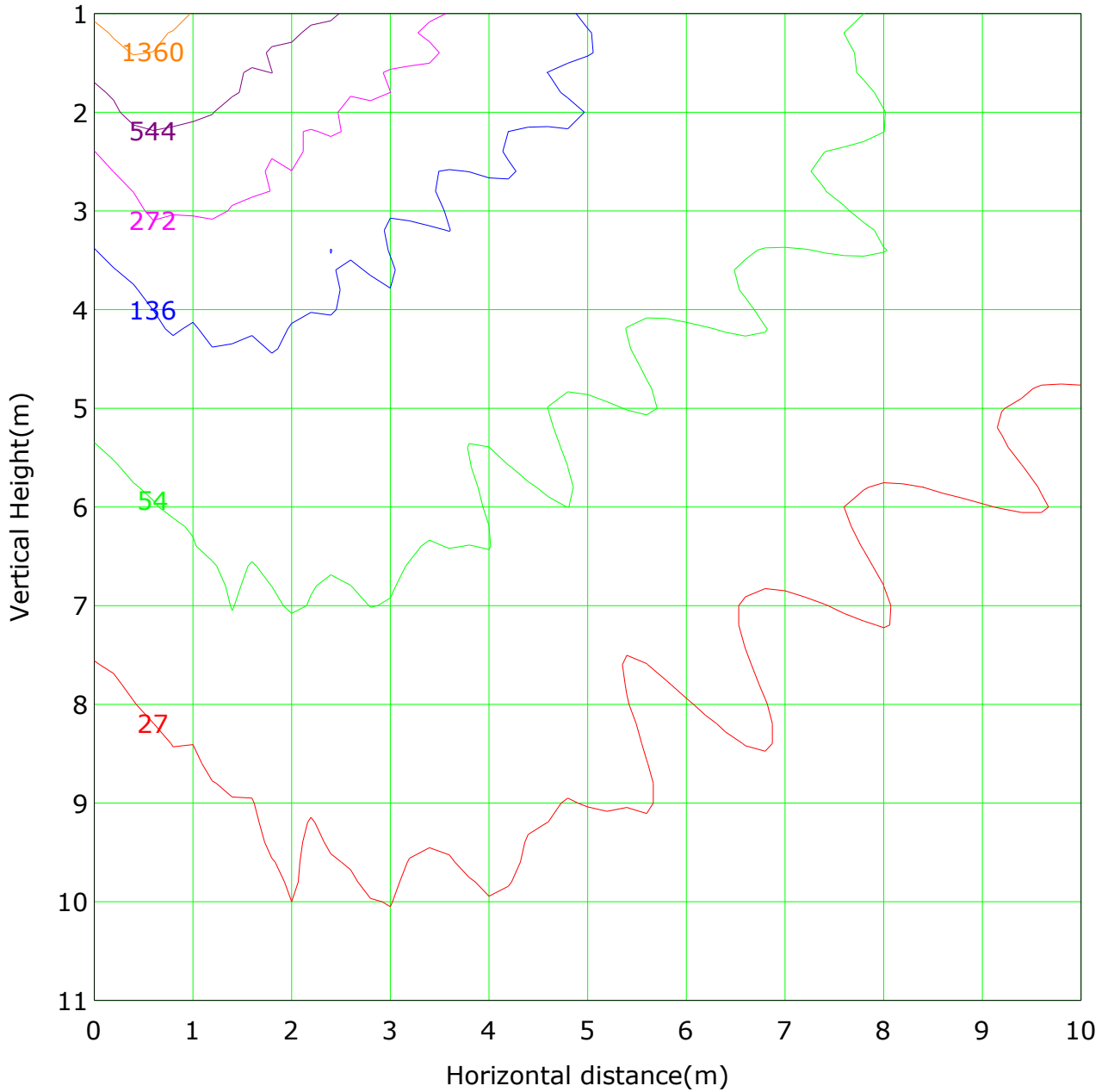
C Plane (°):0.0-360.0: 45.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 2720.9 lx  
— ( 1%): 27.2 lx                      — ( 2%): 54.4 lx  
— ( 5%): 136.0 lx                      — ( 10%): 272.1 lx  
— ( 20%): 544.2 lx                     — ( 50%): 1360.4 lx  
— (100%): 2720.9 lx

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

Gamma Plane (°): 0.0-180.0: 0.5  
Test Device: GPM-1600  
Distance: 8.800 m  
Humidity:  
Inspector:

Tel:  
Fax:

### Area Flux Table

Unit: lm

		Vertical plane																		
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(E)	0.0	0.2	0.4	0.6	1.0	1.6	2.4	3.3	4.1	9.3	18.4	26.0	31.2	33.5	32.7	28.1	19.5	7.3	219.7	199.0
	0.0	0.2	0.4	0.7	1.1	2.2	3.9	5.9	7.8	14.2	24.3	32.4	37.7	39.1	36.4	30.3	20.4	7.4	264.6	238.9
	0.0	0.2	0.4	0.7	1.2	3.0	6.4	10.4	14.4	21.1	29.9	36.9	41.7	43.0	41.3	32.7	21.6	7.6	312.3	290.0
	0.0	0.2	0.4	0.7	1.6	4.4	9.0	14.1	19.1	26.3	34.6	40.5	44.0	45.7	42.4	36.0	22.5	7.7	349.1	332.0
	0.0	0.2	0.3	0.9	2.6	5.4	10.6	17.0	23.3	31.7	41.1	46.7	47.3	46.9	45.6	36.5	23.7	7.9	387.7	371.9
	0.0	0.1	0.3	1.2	3.5	6.6	12.0	20.2	28.8	39.8	50.9	55.7	53.7	48.3	45.2	39.0	25.1	8.1	438.4	422.2
	0.0	0.1	0.3	1.5	4.3	8.1	13.2	22.0	34.1	49.3	63.4	65.1	58.8	51.5	46.6	40.4	25.8	8.2	492.9	476.9
	0.0	0.1	0.3	1.7	4.8	8.8	14.4	21.3	36.8	58.0	73.1	73.6	64.1	54.7	47.7	41.5	26.4	8.4	535.4	520.6
	0.0	0.1	0.1	1.6	4.7	8.6	14.9	21.2	37.2	60.0	77.8	78.7	68.7	58.0	49.7	43.1	27.0	8.5	560.1	545.9
	0.0	0.1	0.1	1.6	4.8	8.7	15.0	21.6	38.2	58.6	77.5	79.3	69.1	58.3	49.7	43.1	27.0	8.5	561.3	547.0
	0.0	0.1	0.3	1.7	4.8	9.0	14.6	21.8	37.5	58.0	74.7	75.0	64.8	55.0	47.9	41.6	26.4	8.4	541.6	526.8
	0.0	0.1	0.3	1.5	4.3	8.3	13.5	22.6	35.1	50.8	65.5	67.2	60.7	52.2	46.6	40.4	25.8	8.3	503.3	487.8
	0.0	0.1	0.3	1.3	3.6	6.7	12.3	20.7	29.6	41.0	52.3	58.2	54.5	49.5	45.1	38.9	25.1	8.1	447.5	431.8
	0.0	0.1	0.3	0.9	2.7	5.4	10.7	17.3	23.9	32.7	42.0	48.1	49.1	46.5	45.6	36.5	23.8	7.9	393.7	378.1
	0.0	0.2	0.3	0.6	1.6	4.4	9.0	14.1	19.1	26.4	34.9	40.6	44.0	45.5	42.4	35.9	22.6	7.7	349.4	332.2
	0.0	0.2	0.4	0.6	1.0	2.9	6.3	10.4	14.3	21.0	30.0	36.9	41.4	42.9	41.1	32.9	21.6	7.6	311.5	289.4
	0.0	0.2	0.4	0.6	1.0	2.2	3.9	5.9	8.0	14.4	24.4	32.5	37.9	39.6	36.9	30.6	20.5	7.4	266.5	240.7
	0.0	0.2	0.3	0.6	0.9	1.6	2.5	3.4	4.3	9.7	18.9	26.5	31.7	33.9	32.9	28.2	19.5	7.3	222.3	201.7
Flux(T)	0.7	2.5	5.6	19.2	49.4	97.8	174.5	273.3	341.5	662.2	383.3	792.0	0.900	584.4	377.5	865.5	742.4	314.2	3	
Flux(E)	0.0	0.0	0.0	0.0	0.0	4.0	108.6	236.2	386.1	601.3	833.3	792.0	0.900	584.4	377.5	865.5	742.4	314.2	3	6833

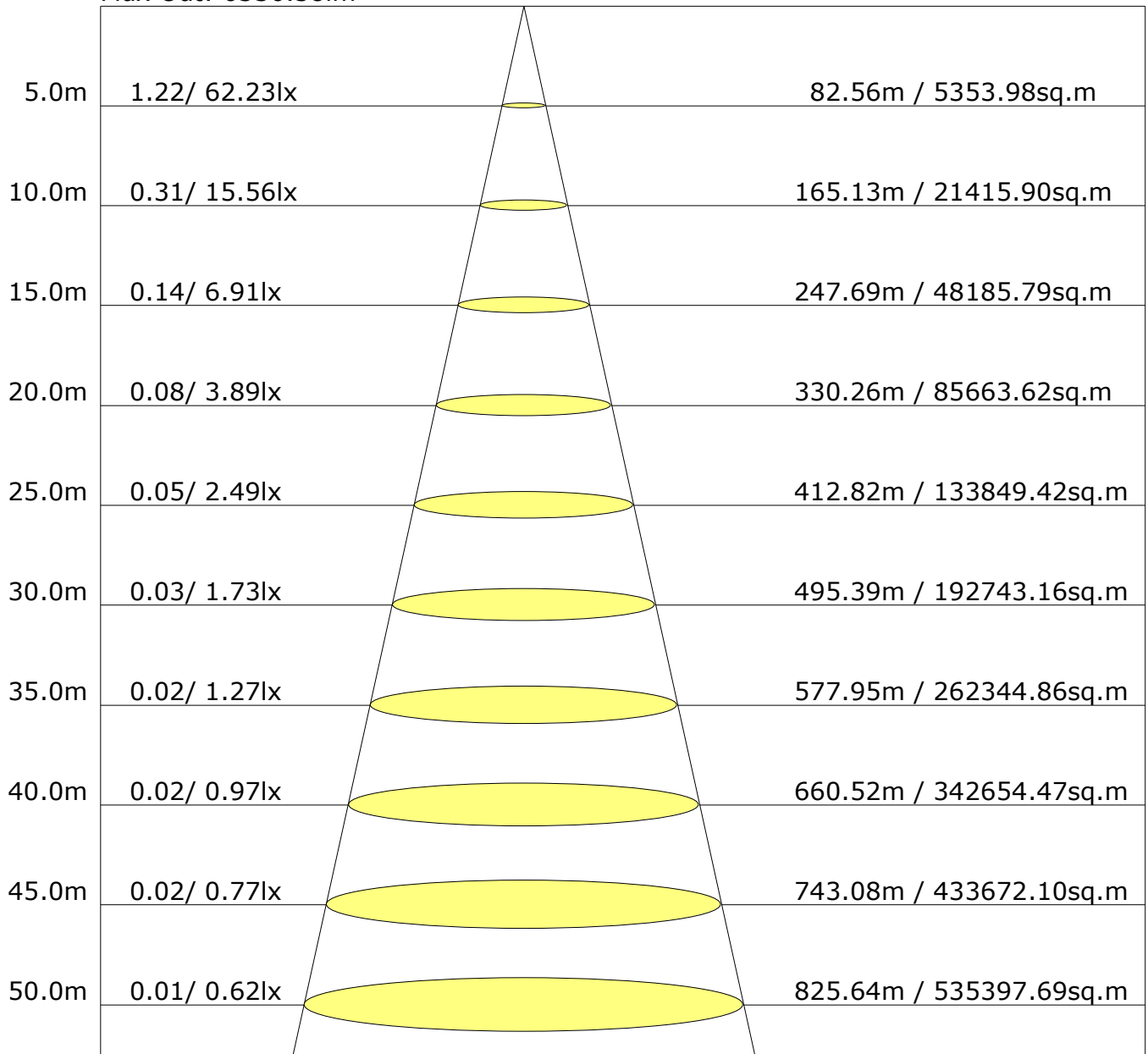
Horizontal plane

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## The Average Illuminance Effective Figure

Flux Out: 6536.58lm



Height      Avg./Nadir. E      Beam Angle:166.2°      Diameter / Area

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## UGR Table

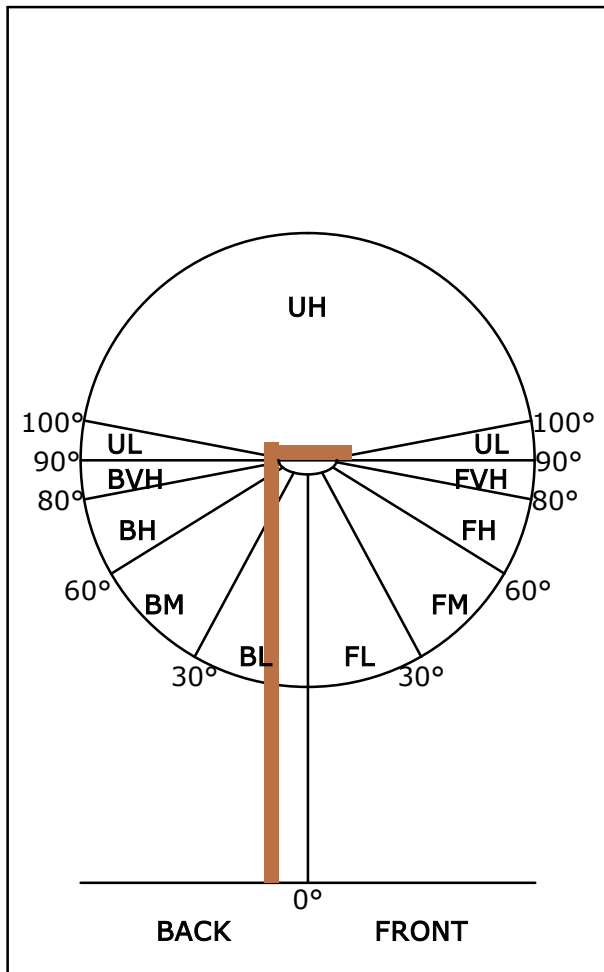
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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 9200lm ( $8\log(F/F_0) = 7.7$ ).

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

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



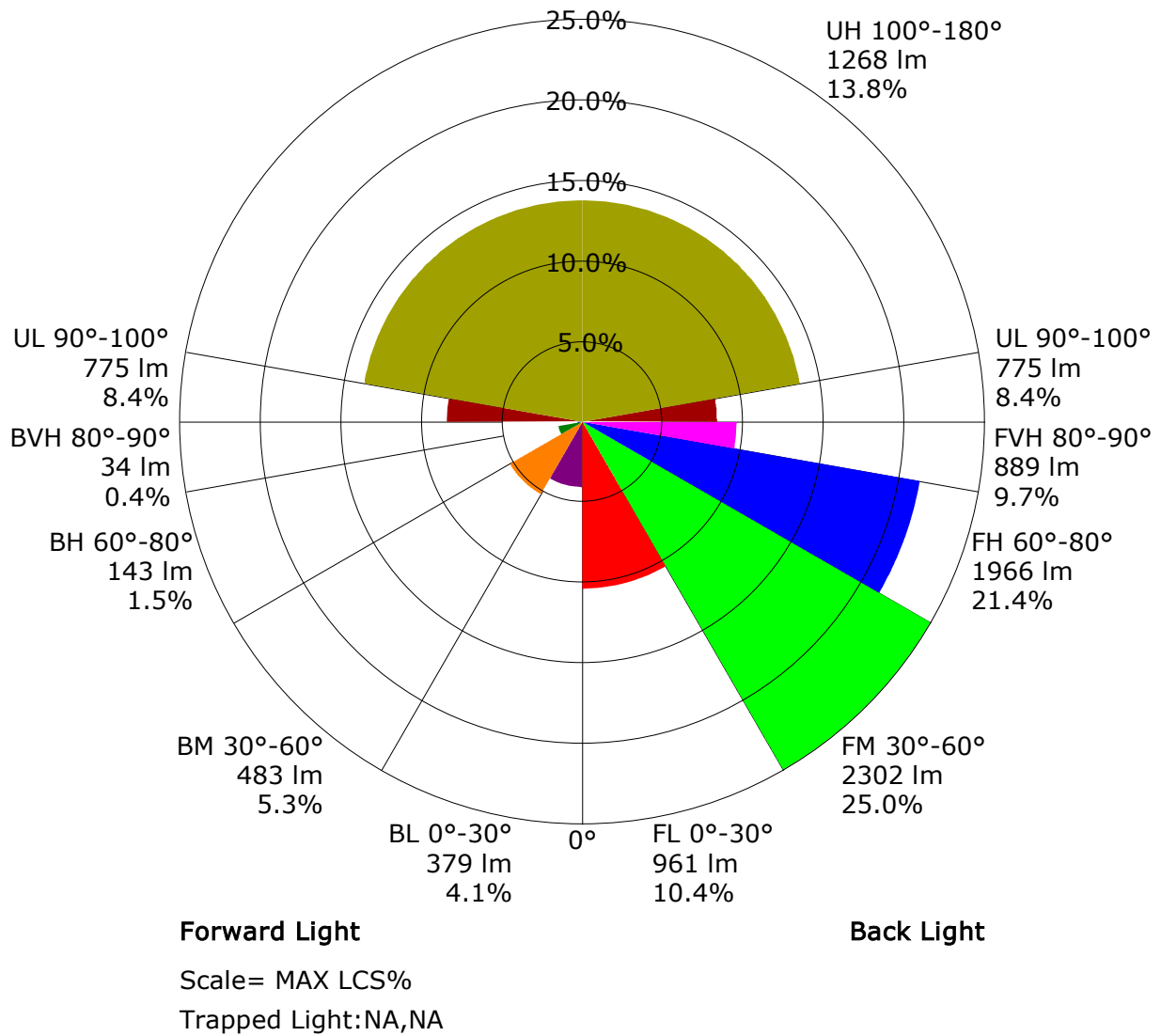
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	6119	66.5
FL ( 0°-30°)	961	10.4
FM (30°-60°)	2302	25.0
FH (60°-80°)	1966	21.4
FVH (80°-90°)	889	9.7
BACK LIGHT	1039	11.3
BL ( 0°-30°)	379	4.1
BM (30°-60°)	483	5.3
BH (60°-80°)	143	1.5
BVH (80°-90°)	34	0.4
UP LIGHT	2043	22.2
UL (90°-100°)	775	8.4
UH (100°-180°)	1268	13.8
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U5 G5
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U5 G5

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Gamma Plane (°):0.0-180.0:0.5  
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## LCS Graph





## 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	0.45	0.52	0.59	0.64	0.71	0.76	0.80	0.85	0.88	
	0.30		0.37	0.44	0.51	0.56	0.63	0.69	0.73	0.79	0.83	
	0.20		0.31	0.38	0.44	0.49	0.57	0.63	0.67	0.74	0.79	
0.50	0.50	0.20	0.41	0.48	0.54	0.58	0.64	0.69	0.72	0.77	0.80	
	0.30		0.34	0.41	0.47	0.51	0.58	0.63	0.67	0.72	0.76	
	0.20		0.29	0.35	0.41	0.46	0.53	0.58	0.62	0.68	0.72	
0.30	0.50	0.20	0.38	0.43	0.49	0.52	0.58	0.62	0.65	0.69	0.72	
	0.30		0.32	0.37	0.43	0.47	0.53	0.57	0.61	0.66	0.69	
	0.20		0.27	0.33	0.38	0.42	0.49	0.53	0.57	0.62	0.66	
0.00	0.00	0.00	0.23	0.27	0.32	0.36	0.41	0.45	0.48	0.53	0.56	
<p>Rating:88W Photometrically tested without ceiling board.            Multiply UF values by service correction factors            Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

## 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	1.03	0.91	0.80	0.71	0.60	0.51	0.45	0.37	0.31	
	0.30		0.86	0.78	0.69	0.63	0.54	0.47	0.42	0.34	0.29	
	0.20		0.74	0.68	0.61	0.57	0.49	0.43	0.39	0.33	0.28	
0.50	0.50	0.20	0.95	0.84	0.73	0.66	0.55	0.49	0.42	0.34	0.29	
	0.30		0.80	0.72	0.65	0.59	0.50	0.44	0.39	0.32	0.27	
	0.20		0.70	0.64	0.58	0.53	0.46	0.41	0.37	0.31	0.26	
0.30	0.50	0.20	0.88	0.77	0.67	0.61	0.51	0.44	0.39	0.32	0.27	
	0.30		0.75	0.68	0.60	0.55	0.47	0.41	0.37	0.30	0.26	
	0.20		0.66	0.60	0.55	0.50	0.44	0.39	0.35	0.29	0.25	
0.00	0.00	0.00	0.53	0.49	0.44	0.41	0.36	0.31	0.28	0.24	0.20	
<p>Rating:88W Photometrically tested without ceiling board.            Multiply UF values by service correction factors            Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

## 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	0.39	0.40	0.41	0.42	0.43	0.43	0.43	0.44	0.44
	0.30		0.32	0.33	0.34	0.35	0.37	0.38	0.38	0.39	0.40
	0.20		0.26	0.28	0.29	0.30	0.32	0.33	0.34	0.36	0.37
0.50	0.50	0.20	0.37	0.39	0.40	0.40	0.41	0.41	0.42	0.42	0.42
	0.30		0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39
	0.20		0.26	0.27	0.28	0.29	0.31	0.32	0.33	0.35	0.36
0.30	0.50	0.20	0.36	0.37	0.38	0.39	0.39	0.40	0.40	0.40	0.40
	0.30		0.30	0.32	0.33	0.33	0.34	0.35	0.36	0.37	0.37
	0.20		0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.34	0.35
0.00	0.00	0.00	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
<p>Rating:88W Photometrically tested without ceiling board.            Multiply UF values by service correction factors            Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-0.5	1603.1	0.4	0.4	0.00	0.00
0.5-1.0	1601.3	1.1	1.5	0.01	0.02
1.0-1.5	1598.2	1.9	3.4	0.02	0.04
1.5-2.0	1603.3	2.7	6.1	0.03	0.07
2.0-2.5	1609.9	3.5	9.6	0.04	0.10
2.5-3.0	1607.7	4.2	13.8	0.05	0.15
3.0-3.5	1605.5	5.0	18.8	0.05	0.20
3.5-4.0	1607.9	5.8	24.6	0.06	0.27
4.0-4.5	1610.4	6.5	31.1	0.07	0.34
4.5-5.0	1613.6	7.3	38.5	0.08	0.42
5.0-5.5	1610.8	8.1	46.5	0.09	0.51
5.5-6.0	1601.8	8.8	55.3	0.10	0.60
6.0-6.5	1588.8	9.5	64.8	0.10	0.70
6.5-7.0	1576.3	10.2	75.0	0.11	0.81
7.0-7.5	1575.8	10.9	85.9	0.12	0.93
7.5-8.0	1584.8	11.7	97.6	0.13	1.06
8.0-8.5	1591.6	12.5	110.1	0.14	1.20
8.5-9.0	1591.8	13.3	123.4	0.14	1.34
9.0-9.5	1585.6	14.0	137.4	0.15	1.49
9.5-10.0	1578.0	14.7	152.0	0.16	1.65
10.0-10.5	1590.1	15.5	167.5	0.17	1.82
10.5-11.0	1620.8	16.6	184.1	0.18	2.00
11.0-11.5	1650.1	17.7	201.8	0.19	2.19
11.5-12.0	1659.4	18.5	220.3	0.20	2.39
12.0-12.5	1639.7	19.1	239.4	0.21	2.60
12.5-13.0	1621.6	19.6	259.0	0.21	2.82
13.0-13.5	1629.5	20.5	279.5	0.22	3.04
13.5-14.0	1648.4	21.5	301.0	0.23	3.27
14.0-14.5	1657.6	22.4	323.3	0.24	3.51
14.5-15.0	1650.1	23.0	346.4	0.25	3.76
15.0-15.5	1642.1	23.7	370.0	0.26	4.02
15.5-16.0	1643.1	24.5	394.5	0.27	4.29
16.0-16.5	1637.5	25.1	419.6	0.27	4.56
16.5-17.0	1624.6	25.7	445.3	0.28	4.84
17.0-17.5	1611.4	26.2	471.5	0.28	5.12
17.5-18.0	1601.0	26.8	498.3	0.29	5.42

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
18.0-18.5	1603.2	27.5	525.8	0.30	5.71
18.5-19.0	1614.7	28.5	554.2	0.31	6.02
19.0-19.5	1618.6	29.3	583.5	0.32	6.34
19.5-20.0	1616.5	30.0	613.5	0.33	6.67
20.0-20.5	1620.4	30.8	644.2	0.33	7.00
20.5-21.0	1632.6	31.7	675.9	0.34	7.35
21.0-21.5	1644.6	32.7	708.6	0.36	7.70
21.5-22.0	1646.1	33.4	742.1	0.36	8.07
22.0-22.5	1635.6	34.0	776.0	0.37	8.43
22.5-23.0	1619.4	34.3	810.3	0.37	8.81
23.0-23.5	1604.3	34.7	845.1	0.38	9.19
23.5-24.0	1587.3	35.1	880.1	0.38	9.57
24.0-24.5	1565.7	35.3	915.4	0.38	9.95
24.5-25.0	1546.5	35.5	950.9	0.39	10.34
25.0-25.5	1534.1	35.9	986.8	0.39	10.73
25.5-26.0	1531.6	36.5	1023.2	0.40	11.12
26.0-26.5	1536.0	37.2	1060.5	0.40	11.53
26.5-27.0	1540.6	38.0	1098.5	0.41	11.94
27.0-27.5	1542.3	38.7	1137.2	0.42	12.36
27.5-28.0	1540.9	39.3	1176.6	0.43	12.79
28.0-28.5	1539.2	39.9	1216.5	0.43	13.22
28.5-29.0	1540.8	40.6	1257.2	0.44	13.66
29.0-29.5	1543.7	41.4	1298.5	0.45	14.11
29.5-30.0	1539.8	41.9	1340.4	0.46	14.57
30.0-30.5	1529.1	42.2	1382.7	0.46	15.03
30.5-31.0	1519.1	42.6	1425.2	0.46	15.49
31.0-31.5	1509.7	42.9	1468.2	0.47	15.96
31.5-32.0	1494.8	43.1	1511.3	0.47	16.43
32.0-32.5	1470.7	43.0	1554.3	0.47	16.89
32.5-33.0	1436.8	42.6	1597.0	0.46	17.36
33.0-33.5	1399.4	42.1	1639.0	0.46	17.81
33.5-34.0	1364.6	41.6	1680.6	0.45	18.27
34.0-34.5	1335.8	41.2	1721.8	0.45	18.71
34.5-35.0	1313.4	41.0	1762.9	0.45	19.16
35.0-35.5	1296.9	41.0	1803.9	0.45	19.61
35.5-36.0	1289.9	41.3	1845.2	0.45	20.06

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-36.5	1293.8	41.9	1887.2	0.46	20.51
36.5-37.0	1310.9	43.0	1930.2	0.47	20.98
37.0-37.5	1337.5	44.4	1974.6	0.48	21.46
37.5-38.0	1366.0	45.9	2020.4	0.50	21.96
38.0-38.5	1386.9	47.1	2067.5	0.51	22.47
38.5-39.0	1393.6	47.8	2115.3	0.52	22.99
39.0-39.5	1390.7	48.2	2163.6	0.52	23.52
39.5-40.0	1378.5	48.3	2211.9	0.53	24.04
40.0-40.5	1353.9	48.0	2259.9	0.52	24.56
40.5-41.0	1321.0	47.3	2307.2	0.51	25.08
41.0-41.5	1288.3	46.6	2353.7	0.51	25.58
41.5-42.0	1257.3	45.9	2399.6	0.50	26.08
42.0-42.5	1228.7	45.3	2444.9	0.49	26.57
42.5-43.0	1206.8	44.9	2489.9	0.49	27.06
43.0-43.5	1192.2	44.8	2534.6	0.49	27.55
43.5-44.0	1181.9	44.8	2579.5	0.49	28.04
44.0-44.5	1174.7	44.9	2624.4	0.49	28.52
44.5-45.0	1167.5	45.1	2669.5	0.49	29.01
45.0-45.5	1160.6	45.2	2714.7	0.49	29.51
45.5-46.0	1158.9	45.5	2760.2	0.49	30.00
46.0-46.5	1164.3	46.1	2806.3	0.50	30.50
46.5-47.0	1176.3	47.0	2853.3	0.51	31.01
47.0-47.5	1190.6	47.9	2901.2	0.52	31.53
47.5-48.0	1201.4	48.8	2950.0	0.53	32.06
48.0-48.5	1202.7	49.2	2999.2	0.53	32.60
48.5-49.0	1195.9	49.3	3048.5	0.54	33.13
49.0-49.5	1185.4	49.2	3097.7	0.54	33.67
49.5-50.0	1170.1	49.0	3146.7	0.53	34.20
50.0-50.5	1150.5	48.5	3195.2	0.53	34.73
50.5-51.0	1128.2	47.9	3243.1	0.52	35.25
51.0-51.5	1109.0	47.4	3290.5	0.52	35.76
51.5-52.0	1095.6	47.2	3337.7	0.51	36.28
52.0-52.5	1085.8	47.1	3384.8	0.51	36.79
52.5-53.0	1076.9	47.0	3431.8	0.51	37.30
53.0-53.5	1068.3	46.9	3478.7	0.51	37.81
53.5-54.0	1062.7	47.0	3525.7	0.51	38.32

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

### Zonal Lumen (Continue 3)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
54.0-54.5	1060.8	47.2	3572.9	0.51	38.83
54.5-55.0	1060.8	47.5	3620.4	0.52	39.35
55.0-55.5	1060.7	47.8	3668.2	0.52	39.87
55.5-56.0	1065.4	48.3	3716.5	0.52	40.39
56.0-56.5	1077.4	49.1	3765.6	0.53	40.93
56.5-57.0	1092.8	50.1	3815.7	0.54	41.47
57.0-57.5	1108.2	51.1	3866.8	0.56	42.03
57.5-58.0	1120.6	52.0	3918.8	0.56	42.59
58.0-58.5	1123.2	52.4	3971.1	0.57	43.16
58.5-59.0	1113.6	52.2	4023.3	0.57	43.73
59.0-59.5	1096.6	51.7	4075.0	0.56	44.29
59.5-60.0	1073.8	50.9	4125.9	0.55	44.84
60.0-60.5	1053.5	50.1	4176.0	0.55	45.39
60.5-61.0	1044.2	50.0	4226.0	0.54	45.93
61.0-61.5	1043.4	50.2	4276.1	0.55	46.48
61.5-62.0	1044.3	50.4	4326.6	0.55	47.03
62.0-62.5	1040.0	50.5	4377.0	0.55	47.57
62.5-63.0	1031.4	50.3	4427.3	0.55	48.12
63.0-63.5	1024.3	50.2	4477.5	0.55	48.67
63.5-64.0	1023.9	50.3	4527.8	0.55	49.21
64.0-64.5	1031.8	51.0	4578.8	0.55	49.77
64.5-65.0	1050.4	52.1	4630.9	0.57	50.33
65.0-65.5	1079.5	53.8	4684.6	0.58	50.92
65.5-66.0	1108.5	55.4	4740.0	0.60	51.52
66.0-66.5	1129.9	56.7	4796.7	0.62	52.14
66.5-67.0	1139.7	57.4	4854.2	0.62	52.76
67.0-67.5	1139.5	57.6	4911.8	0.63	53.39
67.5-68.0	1125.0	57.1	4968.9	0.62	54.01
68.0-68.5	1097.2	55.9	5024.7	0.61	54.61
68.5-69.0	1067.2	54.5	5079.3	0.59	55.21
69.0-69.5	1039.6	53.3	5132.6	0.58	55.79
69.5-70.0	1015.1	52.2	5184.8	0.57	56.35
70.0-70.5	997.2	51.5	5236.3	0.56	56.91
70.5-71.0	986.8	51.1	5287.3	0.56	57.47
71.0-71.5	981.8	51.0	5338.3	0.55	58.02
71.5-72.0	983.1	51.2	5389.5	0.56	58.58

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

### Zonal Lumen (Continue 4)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-72.5	988.2	51.6	5441.1	0.56	59.14
72.5-73.0	996.0	52.2	5493.3	0.57	59.71
73.0-73.5	1008.8	53.0	5546.2	0.58	60.28
73.5-74.0	1022.5	53.8	5600.1	0.59	60.87
74.0-74.5	1030.5	54.4	5654.4	0.59	61.46
74.5-75.0	1032.1	54.6	5709.0	0.59	62.05
75.0-75.5	1028.3	54.5	5763.6	0.59	62.64
75.5-76.0	1022.3	54.3	5817.9	0.59	63.24
76.0-76.5	1015.6	54.1	5872.0	0.59	63.82
76.5-77.0	1007.9	53.8	5925.8	0.58	64.41
77.0-77.5	995.6	53.2	5979.0	0.58	64.99
77.5-78.0	978.3	52.4	6031.4	0.57	65.56
78.0-78.5	961.7	51.6	6083.1	0.56	66.12
78.5-79.0	947.3	50.9	6134.0	0.55	66.67
79.0-79.5	936.4	50.4	6184.5	0.55	67.22
79.5-80.0	926.5	50.0	6234.4	0.54	67.76
80.0-80.5	914.9	49.4	6283.9	0.54	68.30
80.5-81.0	900.8	48.7	6332.6	0.53	68.83
81.0-81.5	889.8	48.2	6380.9	0.52	69.35
81.5-82.0	888.0	48.2	6429.0	0.52	69.88
82.0-82.5	890.9	48.4	6477.4	0.53	70.40
82.5-83.0	893.0	48.6	6526.0	0.53	70.93
83.0-83.5	887.6	48.3	6574.4	0.53	71.46
83.5-84.0	872.1	47.5	6621.9	0.52	71.97
84.0-84.5	853.3	46.6	6668.4	0.51	72.48
84.5-85.0	839.8	45.9	6714.3	0.50	72.98
85.0-85.5	833.6	45.5	6759.8	0.50	73.47
85.5-86.0	832.8	45.5	6805.4	0.49	73.97
86.0-86.5	831.9	45.5	6850.9	0.49	74.46
86.5-87.0	825.3	45.2	6896.1	0.49	74.95
87.0-87.5	814.5	44.6	6940.7	0.48	75.44
87.5-88.0	802.5	44.0	6984.7	0.48	75.92
88.0-88.5	795.3	43.6	7028.2	0.47	76.39
88.5-89.0	792.4	43.4	7071.7	0.47	76.86
89.0-89.5	785.6	43.1	7114.7	0.47	77.33
89.5-90.0	780.6	42.8	7157.5	0.47	77.80

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:



## Zonal Lumen (Continue 5)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
90.0-90.5	786.2	43.1	7200.7	0.47	78.26
90.5-91.0	794.4	43.6	7244.2	0.47	78.74
91.0-91.5	793.8	43.5	7287.7	0.47	79.21
91.5-92.0	783.1	42.9	7330.6	0.47	79.68
92.0-92.5	765.4	41.9	7372.6	0.46	80.13
92.5-93.0	742.5	40.7	7413.2	0.44	80.58
93.0-93.5	720.8	39.5	7452.7	0.43	81.00
93.5-94.0	709.4	38.8	7491.5	0.42	81.43
94.0-94.5	716.7	39.2	7530.7	0.43	81.85
94.5-95.0	738.3	40.3	7571.1	0.44	82.29
95.0-95.5	742.6	40.5	7611.6	0.44	82.73
95.5-96.0	711.6	38.8	7650.4	0.42	83.15
96.0-96.5	672.3	36.6	7687.1	0.40	83.55
96.5-97.0	651.0	35.4	7722.5	0.39	83.94
97.0-97.5	644.5	35.1	7757.6	0.38	84.32
97.5-98.0	643.6	35.0	7792.5	0.38	84.70
98.0-98.5	645.7	35.0	7827.6	0.38	85.08
98.5-99.0	648.6	35.1	7862.7	0.38	85.46
99.0-99.5	647.7	35.1	7897.8	0.38	85.84
99.5-100.0	640.9	34.6	7932.4	0.38	86.22
100.0-100.5	627.7	33.9	7966.3	0.37	86.59
100.5-101.0	609.1	32.8	7999.1	0.36	86.94
101.0-101.5	592.0	31.8	8030.9	0.35	87.29
101.5-102.0	578.4	31.0	8062.0	0.34	87.63
102.0-102.5	566.2	30.3	8092.3	0.33	87.96
102.5-103.0	557.2	29.8	8122.1	0.32	88.28
103.0-103.5	548.8	29.3	8151.4	0.32	88.60
103.5-104.0	540.6	28.8	8180.2	0.31	88.91
104.0-104.5	536.2	28.5	8208.7	0.31	89.22
104.5-105.0	530.9	28.1	8236.8	0.31	89.53
105.0-105.5	521.2	27.6	8264.4	0.30	89.83
105.5-106.0	511.3	27.0	8291.4	0.29	90.12
106.0-106.5	501.1	26.4	8317.8	0.29	90.41
106.5-107.0	491.1	25.8	8343.6	0.28	90.69
107.0-107.5	482.1	25.2	8368.8	0.27	90.96
107.5-108.0	472.7	24.7	8393.5	0.27	91.23

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 6)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-108.5	463.2	24.1	8417.6	0.26	91.49
108.5-109.0	453.7	23.6	8441.2	0.26	91.75
109.0-109.5	443.7	23.0	8464.1	0.25	92.00
109.5-110.0	431.4	22.3	8486.4	0.24	92.24
110.0-110.5	420.2	21.6	8508.0	0.23	92.47
110.5-111.0	411.6	21.1	8529.1	0.23	92.70
111.0-111.5	400.3	20.5	8549.6	0.22	92.93
111.5-112.0	387.8	19.8	8569.3	0.21	93.14
112.0-112.5	377.1	19.1	8588.5	0.21	93.35
112.5-113.0	366.1	18.5	8607.0	0.20	93.55
113.0-113.5	354.8	17.9	8624.8	0.19	93.74
113.5-114.0	343.6	17.2	8642.1	0.19	93.93
114.0-114.5	332.9	16.6	8658.7	0.18	94.11
114.5-115.0	323.1	16.1	8674.8	0.17	94.29
115.0-115.5	313.8	15.6	8690.4	0.17	94.46
115.5-116.0	305.1	15.1	8705.4	0.16	94.62
116.0-116.5	296.9	14.6	8720.0	0.16	94.78
116.5-117.0	289.1	14.2	8734.2	0.15	94.93
117.0-117.5	281.5	13.7	8747.9	0.15	95.08
117.5-118.0	274.3	13.3	8761.2	0.14	95.23
118.0-118.5	268.3	13.0	8774.2	0.14	95.37
118.5-119.0	262.5	12.6	8786.8	0.14	95.50
119.0-119.5	256.7	12.3	8799.1	0.13	95.64
119.5-120.0	251.0	12.0	8811.0	0.13	95.77
120.0-120.5	245.2	11.6	8822.7	0.13	95.89
120.5-121.0	239.6	11.3	8833.9	0.12	96.02
121.0-121.5	234.2	11.0	8844.9	0.12	96.14
121.5-122.0	229.1	10.7	8855.6	0.12	96.25
122.0-122.5	224.1	10.4	8866.0	0.11	96.37
122.5-123.0	219.6	10.1	8876.1	0.11	96.48
123.0-123.5	215.3	9.9	8886.0	0.11	96.58
123.5-124.0	210.6	9.6	8895.6	0.10	96.69
124.0-124.5	206.3	9.3	8905.0	0.10	96.79
124.5-125.0	202.1	9.1	8914.1	0.10	96.89
125.0-125.5	197.7	8.9	8922.9	0.10	96.98
125.5-126.0	193.2	8.6	8931.5	0.09	97.08

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 7)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
126.0-126.5	188.7	8.3	8939.8	0.09	97.17
126.5-127.0	184.4	8.1	8948.0	0.09	97.26
127.0-127.5	180.0	7.9	8955.8	0.09	97.34
127.5-128.0	175.8	7.6	8963.4	0.08	97.42
128.0-128.5	172.0	7.4	8970.8	0.08	97.50
128.5-129.0	168.1	7.2	8978.0	0.08	97.58
129.0-129.5	164.2	7.0	8985.0	0.08	97.66
129.5-130.0	160.2	6.8	8991.7	0.07	97.73
130.0-130.5	156.3	6.5	8998.3	0.07	97.80
130.5-131.0	152.7	6.3	9004.6	0.07	97.87
131.0-131.5	149.6	6.2	9010.8	0.07	97.94
131.5-132.0	147.3	6.0	9016.8	0.07	98.00
132.0-132.5	145.3	5.9	9022.7	0.06	98.07
132.5-133.0	143.8	5.8	9028.5	0.06	98.13
133.0-133.5	142.6	5.7	9034.2	0.06	98.19
133.5-134.0	142.1	5.6	9039.8	0.06	98.25
134.0-134.5	141.9	5.6	9045.4	0.06	98.32
134.5-135.0	141.6	5.5	9050.9	0.06	98.38
135.0-135.5	140.8	5.4	9056.3	0.06	98.43
135.5-136.0	139.7	5.3	9061.7	0.06	98.49
136.0-136.5	138.6	5.3	9066.9	0.06	98.55
136.5-137.0	137.4	5.2	9072.1	0.06	98.61
137.0-137.5	136.3	5.1	9077.2	0.06	98.66
137.5-138.0	135.0	5.0	9082.2	0.05	98.71
138.0-138.5	133.5	4.9	9087.0	0.05	98.77
138.5-139.0	132.0	4.8	9091.8	0.05	98.82
139.0-139.5	130.6	4.7	9096.5	0.05	98.87
139.5-140.0	129.3	4.6	9101.1	0.05	98.92
140.0-140.5	127.8	4.5	9105.5	0.05	98.97
140.5-141.0	125.8	4.4	9109.9	0.05	99.02
141.0-141.5	123.5	4.2	9114.2	0.05	99.06
141.5-142.0	120.9	4.1	9118.3	0.04	99.11
142.0-142.5	118.5	4.0	9122.2	0.04	99.15
142.5-143.0	116.0	3.8	9126.1	0.04	99.19
143.0-143.5	113.3	3.7	9129.8	0.04	99.23
143.5-144.0	110.4	3.6	9133.4	0.04	99.27

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 8)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-144.5	107.4	3.4	9136.8	0.04	99.31
144.5-145.0	104.3	3.3	9140.1	0.04	99.34
145.0-145.5	101.0	3.2	9143.3	0.03	99.38
145.5-146.0	97.6	3.0	9146.3	0.03	99.41
146.0-146.5	93.9	2.9	9149.1	0.03	99.44
146.5-147.0	90.0	2.7	9151.9	0.03	99.47
147.0-147.5	86.1	2.6	9154.4	0.03	99.50
147.5-148.0	82.1	2.4	9156.8	0.03	99.53
148.0-148.5	78.5	2.3	9159.1	0.02	99.55
148.5-149.0	74.9	2.1	9161.2	0.02	99.57
149.0-149.5	71.7	2.0	9163.2	0.02	99.60
149.5-150.0	68.7	1.9	9165.1	0.02	99.62
150.0-150.5	66.0	1.8	9166.9	0.02	99.64
150.5-151.0	63.8	1.7	9168.6	0.02	99.65
151.0-151.5	62.0	1.6	9170.3	0.02	99.67
151.5-152.0	60.5	1.6	9171.8	0.02	99.69
152.0-152.5	59.4	1.5	9173.3	0.02	99.71
152.5-153.0	58.5	1.5	9174.8	0.02	99.72
153.0-153.5	57.9	1.4	9176.2	0.02	99.74
153.5-154.0	57.5	1.4	9177.6	0.02	99.75
154.0-154.5	57.2	1.4	9179.0	0.01	99.77
154.5-155.0	57.0	1.3	9180.3	0.01	99.78
155.0-155.5	56.9	1.3	9181.6	0.01	99.80
155.5-156.0	56.8	1.3	9182.9	0.01	99.81
156.0-156.5	56.6	1.3	9184.2	0.01	99.82
156.5-157.0	56.4	1.2	9185.4	0.01	99.84
157.0-157.5	55.9	1.2	9186.6	0.01	99.85
157.5-158.0	55.1	1.1	9187.7	0.01	99.86
158.0-158.5	53.7	1.1	9188.8	0.01	99.87
158.5-159.0	52.0	1.0	9189.8	0.01	99.89
159.0-159.5	50.1	1.0	9190.8	0.01	99.90
159.5-160.0	48.0	0.9	9191.7	0.01	99.91
160.0-160.5	45.5	0.8	9192.6	0.01	99.91
160.5-161.0	43.0	0.8	9193.3	0.01	99.92
161.0-161.5	40.4	0.7	9194.1	0.01	99.93
161.5-162.0	37.9	0.7	9194.7	0.01	99.94

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 9)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
162.0-162.5	35.3	0.6	9195.3	0.01	99.94
162.5-163.0	32.9	0.5	9195.8	0.01	99.95
163.0-163.5	30.6	0.5	9196.3	0.01	99.96
163.5-164.0	28.5	0.4	9196.8	0.00	99.96
164.0-164.5	26.6	0.4	9197.1	0.00	99.96
164.5-165.0	24.8	0.4	9197.5	0.00	99.97
165.0-165.5	23.3	0.3	9197.8	0.00	99.97
165.5-166.0	21.9	0.3	9198.1	0.00	99.98
166.0-166.5	20.4	0.3	9198.4	0.00	99.98
166.5-167.0	19.1	0.2	9198.6	0.00	99.98
167.0-167.5	17.5	0.2	9198.8	0.00	99.98
167.5-168.0	16.0	0.2	9199.0	0.00	99.98
168.0-168.5	14.8	0.2	9199.2	0.00	99.99
168.5-169.0	13.6	0.1	9199.3	0.00	99.99
169.0-169.5	12.8	0.1	9199.5	0.00	99.99
169.5-170.0	12.2	0.1	9199.6	0.00	99.99
170.0-170.5	11.5	0.1	9199.7	0.00	99.99
170.5-171.0	10.9	0.1	9199.8	0.00	99.99
171.0-171.5	10.2	0.1	9199.9	0.00	99.99
171.5-172.0	9.6	0.1	9200.0	0.00	100.00
172.0-172.5	8.9	0.1	9200.0	0.00	100.00
172.5-173.0	8.2	0.1	9200.1	0.00	100.00
173.0-173.5	7.5	0.0	9200.1	0.00	100.00
173.5-174.0	7.1	0.0	9200.2	0.00	100.00
174.0-174.5	7.1	0.0	9200.2	0.00	100.00
174.5-175.0	7.1	0.0	9200.2	0.00	100.00
175.0-175.5	7.1	0.0	9200.3	0.00	100.00
175.5-176.0	7.1	0.0	9200.3	0.00	100.00
176.0-176.5	7.1	0.0	9200.3	0.00	100.00
176.5-177.0	7.1	0.0	9200.3	0.00	100.00
177.0-177.5	7.1	0.0	9200.4	0.00	100.00
177.5-178.0	7.2	0.0	9200.4	0.00	100.00
178.0-178.5	7.2	0.0	9200.4	0.00	100.00
178.5-179.0	7.2	0.0	9200.4	0.00	100.00
179.0-179.5	7.2	0.0	9200.4	0.00	100.00
179.5-180.0	7.1	0.0	9200.4	0.00	100.00

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 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	1555.6	1578.2	1625.5	1647.2	1555.6	1578.2	1625.5	1647.2	1555.6	
G0.5	1587.7	1602.2	1636.9	1597.1	1516.5	1572.6	1624.0	1699.0	1587.7	
G1.0	1579.1	1625.8	1626.8	1588.5	1460.3	1578.9	1619.6	1705.8	1579.1	
G1.5	1610.3	1665.2	1626.3	1564.6	1421.1	1550.3	1623.2	1725.5	1610.3	
G2.0	1652.8	1707.8	1630.5	1575.9	1410.8	1513.9	1627.2	1748.0	1652.8	
G2.5	1719.6	1715.6	1625.2	1573.6	1371.1	1487.0	1621.0	1778.6	1719.6	
G3.0	1734.0	1735.1	1630.9	1532.8	1307.0	1446.9	1623.7	1820.3	1734.0	
G3.5	1767.2	1777.4	1628.1	1495.7	1281.0	1407.4	1627.8	1872.4	1767.2	
G4.0	1814.6	1793.7	1619.2	1459.7	1237.0	1382.0	1631.6	1931.5	1814.6	
G4.5	1874.8	1835.9	1617.7	1426.7	1203.4	1383.5	1627.0	1928.2	1874.8	
G5.0	1956.3	1892.7	1615.4	1396.0	1156.7	1364.6	1625.9	1913.0	1956.3	
G5.5	1949.8	1941.8	1618.6	1389.7	1118.5	1313.5	1621.9	1898.7	1949.8	
G6.0	1926.7	1962.8	1617.9	1379.4	1088.8	1273.4	1614.1	1912.6	1926.7	
G6.5	1930.1	1940.6	1618.9	1335.5	1038.5	1251.4	1612.4	1917.2	1930.1	
G7.0	1968.2	1937.4	1605.4	1286.7	999.0	1217.7	1612.3	1949.7	1968.2	
G7.5	2075.2	1932.7	1595.3	1259.4	956.8	1188.0	1612.4	2016.3	2075.2	
G8.0	2183.9	1934.6	1595.2	1232.1	921.5	1167.7	1601.0	2084.6	2183.9	
G8.5	2236.9	1972.2	1592.1	1196.7	884.5	1134.2	1601.6	2126.3	2236.9	
G9.0	2226.7	2033.8	1589.2	1175.2	852.6	1100.7	1595.7	2150.9	2226.7	
G9.5	2147.0	2097.8	1591.1	1143.8	825.8	1079.5	1593.9	2165.7	2147.0	
G10.0	2159.5	2159.7	1579.4	1101.5	810.1	1062.9	1601.6	2128.5	2159.5	
G10.5	2491.9	2181.1	1583.1	1073.1	788.9	1029.3	1590.8	2100.1	2491.9	
G11.0	2752.3	2206.9	1582.8	1056.8	770.4	993.8	1578.6	2152.4	2752.3	
G11.5	2877.2	2180.4	1581.9	1020.6	751.5	976.5	1572.2	2347.0	2877.2	
G12.0	2780.1	2141.0	1574.9	994.2	737.7	944.6	1581.4	2488.6	2780.1	
G12.5	2508.3	2148.7	1567.2	971.0	727.1	920.7	1566.1	2583.1	2508.3	
G13.0	2330.0	2271.6	1568.7	945.2	714.4	900.2	1558.2	2665.2	2330.0	
G13.5	2388.7	2466.8	1553.3	917.7	709.3	876.0	1548.0	2658.1	2388.7	
G14.0	2587.5	2575.9	1541.8	899.9	700.7	856.2	1532.3	2562.9	2587.5	
G14.5	2688.1	2675.5	1539.9	878.4	689.2	833.7	1535.1	2424.7	2688.1	
G15.0	2704.9	2710.2	1541.5	858.5	676.7	820.4	1519.8	2304.9	2704.9	
G15.5	2854.1	2688.8	1538.5	837.1	665.8	804.1	1504.1	2244.9	2854.1	
G16.0	3014.5	2592.4	1529.0	818.8	657.2	789.2	1491.8	2258.5	3014.5	
G16.5	3007.9	2443.6	1524.7	805.3	649.2	778.3	1493.8	2345.6	3007.9	
G17.0	2964.1	2339.5	1523.4	790.5	645.8	766.3	1494.8	2420.2	2964.1	
G17.5	2889.8	2287.6	1515.4	780.3	639.7	758.0	1484.8	2481.5	2889.8	
G18.0	2793.7	2309.1	1502.4	768.4	632.9	743.5	1476.6	2551.7	2793.7	

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 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	2761.5	2376.6	1482.5	753.7	625.2	733.2	1457.0	2683.8	2761.5	
G19.0	2769.3	2439.8	1475.6	740.5	619.2	721.4	1453.3	2742.8	2769.3	
G19.5	2752.8	2503.6	1464.7	729.7	609.5	714.3	1446.9	2714.8	2752.8	
G20.0	2742.8	2570.4	1469.6	719.0	603.0	704.7	1429.8	2687.9	2742.8	
G20.5	2777.4	2689.1	1460.5	712.5	600.2	694.9	1408.1	2656.6	2777.4	
G21.0	2893.3	2776.9	1438.5	704.4	598.1	687.4	1403.3	2620.8	2893.3	
G21.5	3057.1	2775.8	1426.4	699.2	596.6	675.8	1401.4	2558.3	3057.1	
G22.0	3158.6	2768.3	1412.4	690.4	589.3	670.3	1387.3	2470.8	3158.6	
G22.5	3151.6	2754.2	1407.1	681.8	581.0	661.0	1383.2	2403.1	3151.6	
G23.0	3110.1	2732.4	1396.0	675.0	579.1	652.7	1368.4	2372.9	3110.1	
G23.5	3117.8	2663.0	1390.9	664.6	573.4	644.5	1348.6	2379.4	3117.8	
G24.0	3050.5	2586.7	1382.0	656.8	561.7	635.1	1341.4	2400.5	3050.5	
G24.5	2984.5	2497.0	1373.2	646.2	547.7	629.7	1329.8	2428.4	2984.5	
G25.0	2901.5	2451.7	1363.2	638.6	538.1	622.2	1335.3	2456.6	2901.5	
G25.5	2877.6	2435.4	1348.6	628.4	527.6	618.1	1320.4	2482.9	2877.6	
G26.0	2899.6	2428.1	1339.2	622.8	513.1	610.6	1300.9	2552.8	2899.6	
G26.5	2880.4	2461.4	1327.4	615.0	501.0	603.2	1285.2	2635.6	2880.4	
G27.0	2856.2	2481.4	1322.5	606.8	487.7	593.1	1271.3	2721.2	2856.2	
G27.5	2812.5	2519.3	1304.5	600.8	475.0	584.4	1267.7	2773.1	2812.5	
G28.0	2789.3	2572.0	1290.8	590.9	462.5	576.5	1254.9	2779.3	2789.3	
G28.5	2824.6	2632.4	1285.4	581.4	451.5	565.9	1240.5	2728.8	2824.6	
G29.0	2914.0	2710.2	1265.4	571.0	442.0	560.1	1221.3	2658.5	2914.0	
G29.5	2982.6	2782.6	1245.4	563.6	430.9	551.7	1209.4	2591.3	2982.6	
G30.0	2981.9	2828.8	1235.1	554.4	422.3	543.9	1208.6	2505.1	2981.9	
G30.5	2976.5	2825.9	1228.0	549.9	410.3	541.7	1201.5	2451.7	2976.5	
G31.0	3040.1	2794.0	1218.0	547.0	398.4	536.8	1184.2	2401.2	3040.1	
G31.5	3116.6	2716.8	1199.2	540.5	387.4	532.9	1165.8	2376.2	3116.6	
G32.0	3134.1	2644.5	1177.6	535.5	371.4	524.6	1145.8	2348.1	3134.1	
G32.5	3083.8	2564.0	1163.8	528.8	355.9	518.1	1126.5	2308.4	3083.8	
G33.0	2910.6	2491.9	1155.5	522.4	341.9	507.9	1124.0	2285.6	2910.6	
G33.5	2732.3	2438.3	1150.6	513.5	332.8	500.6	1117.3	2265.0	2732.3	
G34.0	2569.5	2401.5	1136.3	505.5	322.7	493.8	1091.3	2263.4	2569.5	
G34.5	2454.9	2368.0	1113.8	497.4	314.7	484.4	1074.9	2280.4	2454.9	
G35.0	2363.3	2319.8	1096.5	488.5	307.1	477.2	1064.3	2309.5	2363.3	
G35.5	2297.4	2299.3	1080.1	480.2	300.4	468.6	1061.3	2337.6	2297.4	
G36.0	2317.6	2280.7	1074.1	472.0	300.3	461.8	1060.4	2346.0	2317.6	
G36.5	2428.4	2269.5	1071.0	461.8	302.5	453.1	1041.2	2359.7	2428.4	

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 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	2652.7	2274.7	1057.4	452.9	305.5	442.7	1029.3	2372.2	2652.7	
G37.5	2888.2	2298.2	1026.7	445.5	303.1	433.7	1016.6	2400.0	2888.2	
G38.0	3112.5	2337.1	1015.1	436.2	298.4	424.5	1002.5	2418.4	3112.5	
G38.5	3217.7	2367.2	1007.7	429.0	289.8	416.3	987.3	2430.1	3217.7	
G39.0	3232.2	2410.1	1002.5	421.1	284.1	405.3	979.3	2417.8	3232.2	
G39.5	3204.8	2444.0	1000.2	413.9	278.7	398.1	970.6	2388.1	3204.8	
G40.0	3128.8	2479.4	988.0	406.0	270.9	389.8	956.3	2338.0	3128.8	
G40.5	3000.3	2487.6	976.1	398.0	263.6	382.1	935.1	2262.7	3000.3	
G41.0	2837.8	2487.3	961.3	390.0	255.6	374.7	920.0	2203.9	2837.8	
G41.5	2711.9	2449.3	953.4	382.0	250.6	368.2	905.3	2161.6	2711.9	
G42.0	2590.2	2400.9	939.4	375.1	245.1	361.4	900.8	2120.7	2590.2	
G42.5	2515.2	2346.7	925.3	365.9	239.4	352.3	910.1	2070.5	2515.2	
G43.0	2470.2	2292.6	915.9	358.0	233.7	344.9	906.3	2061.9	2470.2	
G43.5	2480.3	2222.2	903.2	349.2	230.3	336.6	892.8	2077.0	2480.3	
G44.0	2490.2	2157.8	890.5	341.9	226.8	330.2	876.4	2105.0	2490.2	
G44.5	2514.1	2112.7	875.7	333.4	218.9	322.3	867.3	2131.8	2514.1	
G45.0	2532.4	2063.3	873.1	324.7	214.6	315.1	851.1	2129.3	2532.4	
G45.5	2582.6	2042.3	865.0	315.5	209.5	306.9	842.6	2101.6	2582.6	
G46.0	2660.6	2033.5	861.9	307.8	203.5	300.4	835.4	2074.0	2660.6	
G46.5	2766.6	2057.8	856.8	300.0	195.9	293.2	822.9	2058.1	2766.6	
G47.0	2921.2	2083.2	846.9	292.1	189.7	286.7	811.7	2037.6	2921.2	
G47.5	3078.7	2089.5	832.0	284.8	181.5	279.0	799.6	2034.7	3078.7	
G48.0	3185.9	2080.0	819.6	277.6	172.8	272.2	799.3	2035.3	3185.9	
G48.5	3183.7	2077.8	806.0	269.4	165.6	266.7	794.6	2035.9	3183.7	
G49.0	3134.2	2074.8	798.5	263.2	158.8	258.7	796.1	2050.8	3134.2	
G49.5	3038.0	2088.3	796.0	257.4	150.7	253.4	797.2	2050.1	3038.0	
G50.0	2905.3	2099.7	798.7	250.8	145.0	247.4	787.7	2056.1	2905.3	
G50.5	2766.6	2111.0	785.0	245.0	137.8	241.6	774.3	2056.5	2766.6	
G51.0	2647.8	2106.6	765.1	238.7	130.3	236.1	753.7	2055.4	2647.8	
G51.5	2566.0	2101.6	748.4	233.0	124.7	230.0	738.6	2068.0	2566.0	
G52.0	2531.4	2085.4	740.0	227.3	117.4	225.3	729.8	2063.3	2531.4	
G52.5	2533.1	2070.6	737.7	222.8	111.2	219.7	739.7	2018.3	2533.1	
G53.0	2571.7	2063.1	733.2	217.7	105.7	214.9	740.1	1931.6	2571.7	
G53.5	2591.9	2075.2	725.0	212.8	100.4	209.3	734.7	1865.0	2591.9	
G54.0	2608.0	2104.3	718.1	207.6	96.2	205.2	724.2	1825.2	2608.0	
G54.5	2650.3	2113.3	706.7	203.8	90.8	201.0	710.0	1808.8	2650.3	
G55.0	2751.2	2055.0	697.0	199.3	87.4	196.2	700.7	1800.9	2751.2	

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 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	2861.8	1963.7	690.9	194.7	81.5	191.9	688.8	1810.7	2861.8	
G56.0	3029.6	1896.1	680.2	189.4	77.2	187.0	683.6	1819.9	3029.6	
G56.5	3193.3	1854.2	674.3	184.8	68.9	182.5	674.5	1842.6	3193.3	
G57.0	3354.8	1824.3	671.9	179.8	62.0	176.9	669.6	1871.3	3354.8	
G57.5	3484.1	1806.6	663.1	175.1	55.6	172.0	667.7	1896.9	3484.1	
G58.0	3556.8	1803.6	657.5	169.6	48.5	167.3	663.8	1940.8	3556.8	
G58.5	3482.2	1809.0	649.3	164.3	41.6	162.4	658.2	1995.6	3482.2	
G59.0	3348.2	1818.7	639.7	159.1	35.1	157.6	644.2	2052.9	3348.2	
G59.5	3195.0	1836.8	630.3	153.9	26.8	152.3	634.5	2061.2	3195.0	
G60.0	3057.3	1863.5	622.7	148.6	15.1	148.0	626.4	2007.8	3057.3	
G60.5	2998.1	1896.1	614.2	144.3	9.6	143.5	618.6	1941.7	2998.1	
G61.0	2998.1	1953.3	606.7	139.5	5.0	138.2	612.1	1888.3	2998.1	
G61.5	2992.1	2013.0	601.1	134.6	5.2	133.3	604.5	1869.2	2992.1	
G62.0	3037.1	2018.4	592.4	129.4	5.3	128.7	598.7	1846.5	3037.1	
G62.5	3064.8	1966.4	579.2	124.6	5.3	124.1	591.9	1826.8	3064.8	
G63.0	3080.1	1922.6	571.9	120.3	5.6	118.9	584.9	1814.6	3080.1	
G63.5	3100.5	1885.1	565.5	114.9	5.6	113.7	572.6	1812.2	3100.5	
G64.0	3173.9	1878.8	553.3	109.8	5.7	107.5	562.7	1819.9	3173.9	
G64.5	3304.8	1866.3	544.0	105.0	5.8	100.7	549.8	1820.2	3304.8	
G65.0	3527.2	1871.5	532.2	100.3	6.0	93.9	537.0	1842.5	3527.2	
G65.5	3781.0	1864.2	522.3	94.0	6.1	87.1	523.1	1884.1	3781.0	
G66.0	3980.9	1855.0	508.3	87.1	6.1	80.2	514.6	1942.7	3980.9	
G66.5	4107.9	1842.5	498.4	80.0	6.3	73.4	502.2	1992.2	4107.9	
G67.0	4146.5	1861.1	485.5	72.6	6.4	67.7	487.9	2004.4	4146.5	
G67.5	4133.6	1892.1	475.2	65.4	6.5	62.0	475.7	1989.6	4133.6	
G68.0	3952.5	1934.6	460.8	59.8	6.7	58.0	463.7	1964.3	3952.5	
G68.5	3715.1	1965.6	450.4	52.7	6.7	57.2	449.2	1958.0	3715.1	
G69.0	3509.1	1980.8	435.6	48.9	6.8	56.5	432.9	1949.4	3509.1	
G69.5	3368.8	1966.7	422.4	47.4	6.9	56.3	412.3	1932.7	3368.8	
G70.0	3260.9	1948.2	408.4	47.2	7.1	55.8	400.0	1901.2	3260.9	
G70.5	3223.5	1931.1	393.5	46.5	7.1	55.2	391.0	1878.9	3223.5	
G71.0	3206.9	1908.1	382.1	46.1	7.2	54.9	380.6	1875.5	3206.9	
G71.5	3228.8	1902.1	369.4	45.9	7.3	54.9	368.5	1869.9	3228.8	
G72.0	3295.5	1888.0	358.9	46.5	7.5	55.0	354.9	1876.4	3295.5	
G72.5	3373.4	1879.4	344.2	46.7	7.6	55.0	341.9	1880.4	3373.4	
G73.0	3486.1	1864.8	333.9	47.2	7.7	55.0	328.0	1885.3	3486.1	
G73.5	3618.5	1863.0	321.5	47.3	7.9	55.0	316.9	1903.3	3618.5	

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 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	3719.3	1861.6	310.3	47.6	8.0	55.0	303.7	1920.5	3719.3	
G74.5	3749.3	1870.6	298.8	47.6	8.0	55.0	291.6	1940.7	3749.3	
G75.0	3761.4	1872.5	289.0	47.6	8.1	54.8	280.9	1937.7	3761.4	
G75.5	3742.6	1884.9	276.8	47.7	8.3	54.8	268.2	1917.9	3742.6	
G76.0	3719.9	1895.9	269.0	47.4	8.4	54.3	259.0	1901.3	3719.9	
G76.5	3658.9	1912.2	259.4	47.6	8.6	54.2	247.7	1905.2	3658.9	
G77.0	3605.6	1911.2	251.4	47.7	8.7	53.7	238.2	1916.0	3605.6	
G77.5	3517.4	1898.7	242.8	47.6	8.7	53.1	231.0	1897.4	3517.4	
G78.0	3427.2	1896.8	234.1	47.2	8.8	52.7	221.9	1868.2	3427.2	
G78.5	3362.4	1879.4	226.1	46.9	9.0	52.3	214.9	1839.8	3362.4	
G79.0	3329.8	1855.8	218.2	46.6	9.1	51.8	206.7	1808.1	3329.8	
G79.5	3340.8	1817.7	212.1	46.1	9.1	51.1	201.4	1777.5	3340.8	
G80.0	3328.9	1789.1	204.1	45.7	9.4	50.7	193.5	1747.2	3328.9	
G80.5	3287.5	1767.7	197.4	45.0	9.5	49.9	186.3	1726.2	3287.5	
G81.0	3219.7	1744.0	190.2	44.7	9.5	49.2	180.6	1705.2	3219.7	
G81.5	3215.9	1723.0	183.6	44.0	9.8	48.8	173.2	1696.1	3215.9	
G82.0	3278.7	1706.6	177.1	43.6	9.8	47.8	166.6	1682.9	3278.7	
G82.5	3347.0	1695.0	170.5	43.1	10.1	47.3	159.6	1669.1	3347.0	
G83.0	3397.7	1679.4	165.4	42.5	10.1	47.0	153.1	1651.8	3397.7	
G83.5	3350.6	1667.7	160.2	42.1	10.2	46.5	147.7	1630.4	3350.6	
G84.0	3240.8	1652.4	155.9	41.6	10.5	46.1	143.2	1608.8	3240.8	
G84.5	3145.5	1625.1	152.4	41.0	10.5	45.4	139.3	1595.2	3145.5	
G85.0	3111.3	1612.6	149.3	40.6	10.6	45.0	136.0	1577.1	3111.3	
G85.5	3100.8	1602.8	146.8	40.2	10.7	44.6	133.4	1575.1	3100.8	
G86.0	3120.8	1600.8	144.2	39.7	10.9	44.3	131.5	1579.1	3120.8	
G86.5	3102.3	1592.1	142.5	39.3	10.9	43.8	129.1	1578.9	3102.3	
G87.0	3067.8	1581.2	140.2	38.9	11.0	43.2	128.4	1554.8	3067.8	
G87.5	3026.9	1550.5	138.9	38.3	11.0	42.9	127.6	1529.8	3026.9	
G88.0	2996.2	1508.2	137.6	38.0	11.3	42.4	127.6	1513.4	2996.2	
G88.5	3014.1	1484.6	136.4	37.5	11.4	42.1	127.6	1497.1	3014.1	
G89.0	3002.4	1481.8	136.3	37.1	11.6	41.6	127.9	1488.2	3002.4	
G89.5	2944.1	1476.6	135.9	36.7	11.6	41.0	128.1	1468.1	2944.1	
G90.0	2966.6	1467.9	135.7	36.1	11.8	40.8	128.5	1460.8	2966.6	
G90.5	3066.3	1459.2	136.3	35.9	11.8	40.3	128.9	1452.0	3066.3	
G91.0	3136.7	1448.0	136.7	35.3	11.8	39.7	129.2	1441.8	3136.7	
G91.5	3129.9	1429.9	137.2	34.8	12.0	39.3	130.0	1408.8	3129.9	
G92.0	3059.0	1412.3	137.1	34.5	12.1	38.7	129.9	1383.5	3059.0	

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 5)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G92.5	2936.3	1386.6	137.8	34.2	12.1	38.2	130.6	1364.2	2936.3	
G93.0	2775.1	1366.9	138.1	33.8	12.2	37.9	131.0	1345.0	2775.1	
G93.5	2658.1	1343.4	138.3	33.2	12.4	37.5	131.7	1338.4	2658.1	
G94.0	2657.0	1323.0	138.7	32.9	12.4	37.2	131.7	1325.3	2657.0	
G94.5	2839.3	1310.5	138.5	32.3	12.4	36.8	131.9	1307.9	2839.3	
G95.0	3072.4	1288.9	138.9	32.1	12.5	36.4	132.1	1290.1	3072.4	
G95.5	2976.8	1276.7	139.0	31.5	12.5	36.0	132.1	1274.2	2976.8	
G96.0	2643.4	1258.5	138.9	31.3	12.6	35.5	132.2	1254.5	2643.4	
G96.5	2428.6	1235.2	138.9	31.0	12.6	34.9	132.2	1236.6	2428.6	
G97.0	2379.2	1220.7	138.7	30.4	12.6	34.5	132.5	1217.8	2379.2	
G97.5	2397.3	1191.5	138.5	30.0	12.8	34.0	132.2	1209.0	2397.3	
G98.0	2438.1	1174.2	138.1	29.8	12.8	33.7	132.2	1193.0	2438.1	
G98.5	2496.4	1159.7	138.1	29.4	12.9	33.2	131.5	1179.0	2496.4	
G99.0	2553.8	1145.2	137.6	29.1	12.9	32.6	131.5	1154.7	2553.8	
G99.5	2567.1	1128.3	136.7	28.5	13.0	32.1	131.0	1128.8	2567.1	
G100.0	2540.1	1105.2	136.3	28.3	13.0	31.8	130.9	1102.9	2540.1	
G100.5	2448.3	1091.5	135.7	27.9	13.0	31.3	129.8	1077.2	2448.3	
G101.0	2327.4	1068.3	134.9	27.5	13.0	30.8	129.4	1060.1	2327.4	
G101.5	2259.7	1043.9	134.6	27.2	13.0	30.3	128.4	1043.5	2259.7	
G102.0	2188.4	1028.3	133.3	26.8	13.0	29.9	128.0	1025.2	2188.4	
G102.5	2147.9	1007.0	132.5	26.5	13.0	29.4	126.6	1002.9	2147.9	
G103.0	2130.9	985.5	131.1	26.1	13.0	28.9	126.1	988.4	2130.9	
G103.5	2088.9	971.4	130.4	25.7	13.2	28.5	124.7	967.7	2088.9	
G104.0	2062.3	958.2	129.5	25.4	13.2	28.0	124.1	958.2	2062.3	
G104.5	2086.1	938.9	128.0	25.0	13.2	27.7	123.1	938.3	2086.1	
G105.0	2066.9	915.7	127.4	24.7	13.2	27.2	122.4	916.1	2066.9	
G105.5	2023.4	903.6	126.0	24.3	13.2	26.8	121.5	886.5	2023.4	
G106.0	1994.4	885.6	125.1	24.0	13.2	26.4	120.4	866.3	1994.4	
G106.5	1941.3	868.2	124.3	23.9	13.2	26.1	119.0	846.2	1941.3	
G107.0	1908.9	854.5	123.1	23.5	13.2	25.7	118.2	828.8	1908.9	
G107.5	1881.1	830.6	122.2	23.2	13.2	25.4	117.0	805.5	1881.1	
G108.0	1849.5	810.2	120.8	23.1	13.3	25.0	115.5	787.1	1849.5	
G108.5	1814.8	790.7	119.8	22.7	13.3	24.7	114.3	766.2	1814.8	
G109.0	1775.6	774.1	118.6	22.6	13.3	24.5	113.3	751.1	1775.6	
G109.5	1721.8	759.3	117.1	22.3	13.3	24.2	112.2	735.5	1721.8	
G110.0	1653.2	739.0	116.0	21.9	13.3	23.8	111.0	718.5	1653.2	
G110.5	1618.9	723.1	114.7	21.7	13.2	23.6	109.8	700.8	1618.9	

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 6)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G111.0	1582.3	708.0	113.7	21.3	13.3	23.4	108.7	688.5	1582.3	
G111.5	1499.8	690.0	112.9	21.2	13.3	23.0	107.9	677.2	1499.8	
G112.0	1443.3	677.8	111.6	20.9	13.3	22.7	106.8	664.0	1443.3	
G112.5	1390.1	665.5	110.9	20.8	13.3	22.4	105.6	645.1	1390.1	
G113.0	1322.9	658.2	109.5	20.6	13.2	22.1	104.6	632.2	1322.9	
G113.5	1265.3	643.2	108.8	20.3	13.3	21.9	103.5	617.5	1265.3	
G114.0	1209.0	628.8	107.9	20.0	13.3	21.6	102.0	601.4	1209.0	
G114.5	1160.7	612.5	106.5	19.8	13.3	21.3	101.0	587.1	1160.7	
G115.0	1123.0	594.5	105.7	19.7	13.3	21.1	99.7	570.8	1123.0	
G115.5	1084.3	579.5	104.1	19.4	13.3	20.8	98.7	553.4	1084.3	
G116.0	1050.9	564.8	103.3	19.2	13.3	20.5	97.6	538.6	1050.9	
G116.5	1019.3	549.2	102.2	19.0	13.3	20.3	96.1	523.1	1019.3	
G117.0	988.1	538.5	100.7	18.8	13.3	20.0	95.1	508.0	988.1	
G117.5	957.2	521.5	99.5	18.6	13.3	19.8	93.8	497.2	957.2	
G118.0	931.2	508.4	98.4	18.3	13.3	19.6	92.8	486.7	931.2	
G118.5	913.1	497.9	97.2	18.2	13.4	19.3	91.3	473.0	913.1	
G119.0	889.2	484.9	95.8	18.1	13.3	19.2	90.1	466.2	889.2	
G119.5	871.0	473.0	94.7	17.7	13.3	18.9	88.7	453.7	871.0	
G120.0	853.7	460.8	93.9	17.5	13.3	18.5	87.5	440.4	853.7	
G120.5	832.2	451.2	92.4	17.4	13.2	18.3	86.1	427.5	832.2	
G121.0	816.3	441.0	91.2	17.1	13.2	18.1	85.1	412.8	816.3	
G121.5	799.3	428.5	90.1	16.9	13.3	17.8	83.7	403.4	799.3	
G122.0	786.6	414.6	88.7	16.6	13.3	17.7	82.8	392.1	786.6	
G122.5	771.4	402.9	87.6	16.4	13.3	17.3	81.3	383.6	771.4	
G123.0	756.7	394.5	86.3	16.3	13.3	17.1	80.2	374.9	756.7	
G123.5	741.5	386.0	85.1	16.0	13.2	16.9	78.7	368.0	741.5	
G124.0	722.2	377.7	83.4	15.9	13.2	16.7	77.6	358.3	722.2	
G124.5	706.7	370.9	82.3	15.8	13.3	16.6	76.4	353.5	706.7	
G125.0	686.4	364.7	81.1	15.6	13.2	16.3	75.1	345.7	686.4	
G125.5	668.1	357.8	79.9	15.2	13.2	16.2	74.1	341.2	668.1	
G126.0	643.2	349.5	78.8	15.2	13.2	15.9	73.0	336.3	643.2	
G126.5	622.7	344.2	77.7	15.1	13.2	15.6	71.7	333.2	622.7	
G127.0	599.6	337.6	76.4	14.8	13.2	15.5	70.4	330.2	599.6	
G127.5	574.1	331.9	74.9	14.7	13.2	15.1	69.3	328.7	574.1	
G128.0	552.6	328.3	73.8	14.4	13.0	14.9	67.8	326.5	552.6	
G128.5	530.5	324.1	72.6	14.3	13.2	14.8	66.6	323.9	530.5	
G129.0	507.0	322.7	71.3	14.1	13.0	14.5	65.2	321.5	507.0	

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 7)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G129.5	483.6	319.6	70.1	13.9	13.0	14.4	64.1	319.3	483.6	
G130.0	458.7	316.5	68.8	13.9	13.0	14.1	62.5	317.4	458.7	
G130.5	438.7	314.8	67.5	13.6	13.0	14.0	61.4	312.5	438.7	
G131.0	420.9	311.0	66.4	13.4	13.0	13.9	60.1	308.3	420.9	
G131.5	409.1	309.3	65.2	13.3	12.9	13.7	58.8	303.7	409.1	
G132.0	403.0	305.3	64.0	13.2	12.9	13.4	57.8	300.7	403.0	
G132.5	397.3	303.4	62.6	13.0	13.0	13.3	56.4	295.9	397.3	
G133.0	396.8	299.6	61.5	12.9	13.0	13.2	55.2	293.4	396.8	
G133.5	398.1	296.6	60.3	12.8	13.0	12.9	53.9	288.6	398.1	
G134.0	406.0	294.0	58.8	12.5	13.0	12.8	52.9	286.6	406.0	
G134.5	412.0	292.1	57.8	12.4	13.0	12.6	51.8	282.9	412.0	
G135.0	415.4	289.5	56.3	12.2	13.0	12.5	50.5	280.9	415.4	
G135.5	416.0	286.7	55.2	12.2	12.9	12.4	49.0	277.3	416.0	
G136.0	414.1	285.3	53.8	12.1	12.9	12.2	48.0	274.6	414.1	
G136.5	412.5	283.4	52.9	11.8	12.9	12.0	46.9	271.9	412.5	
G137.0	411.0	280.9	51.8	11.8	12.9	12.0	45.5	268.8	411.0	
G137.5	410.9	279.5	50.3	11.6	12.8	11.8	44.3	265.0	410.9	
G138.0	408.0	276.2	49.2	11.6	12.8	11.7	43.3	261.7	408.0	
G138.5	404.4	274.2	48.1	11.4	12.8	11.6	42.3	257.1	404.4	
G139.0	404.4	271.6	46.7	11.3	12.8	11.4	41.0	251.8	404.4	
G139.5	404.4	268.0	45.8	11.1	12.6	11.3	39.8	246.3	404.4	
G140.0	405.9	265.1	44.4	11.0	12.6	11.3	38.7	240.5	405.9	
G140.5	404.6	260.6	43.2	10.9	12.6	11.1	37.5	234.0	404.6	
G141.0	400.1	256.5	42.3	10.9	12.6	11.0	36.4	228.7	400.1	
G141.5	394.7	249.9	41.2	10.7	12.6	10.9	35.5	221.9	394.7	
G142.0	387.9	244.3	40.1	10.6	12.5	10.7	34.4	216.9	387.9	
G142.5	382.8	238.6	39.0	10.6	12.5	10.7	33.4	210.7	382.8	
G143.0	375.3	232.4	38.0	10.5	12.5	10.6	32.3	205.4	375.3	
G143.5	367.3	226.9	36.7	10.3	12.5	10.6	31.4	199.3	367.3	
G144.0	357.1	220.4	35.7	10.3	12.5	10.3	30.4	194.4	357.1	
G144.5	346.4	214.7	34.8	10.2	12.4	10.5	29.5	188.5	346.4	
G145.0	335.5	208.0	33.7	10.2	12.4	10.3	28.5	183.6	335.5	
G145.5	322.3	202.2	32.6	10.2	12.2	10.2	27.6	176.8	322.3	
G146.0	309.7	196.1	31.7	10.1	12.2	10.2	26.6	171.5	309.7	
G146.5	292.0	189.1	30.7	10.1	12.0	10.1	25.8	164.9	292.0	
G147.0	277.3	182.3	29.8	10.1	12.1	10.1	24.9	159.0	277.3	
G147.5	259.4	174.7	28.9	9.9	12.1	10.1	24.0	152.6	259.4	

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 8)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	243.9	167.9	28.0	9.9	12.0	9.9	23.1	147.6	243.9	
G148.5	228.7	161.0	27.2	9.9	12.0	10.1	22.4	142.3	228.7	
G149.0	212.9	154.9	26.1	9.8	12.0	9.9	21.6	138.1	212.9	
G149.5	199.5	149.2	25.3	9.8	11.8	9.9	20.8	135.1	199.5	
G150.0	186.1	143.6	24.3	9.8	11.8	9.9	20.1	132.2	186.1	
G150.5	175.7	138.6	23.5	9.8	11.8	9.9	19.3	128.9	175.7	
G151.0	168.4	135.1	22.8	9.8	11.8	9.9	18.5	126.6	168.4	
G151.5	162.5	131.8	21.9	9.8	11.8	9.9	17.9	123.7	162.5	
G152.0	159.8	128.5	21.2	9.8	11.6	9.9	17.1	120.9	159.8	
G152.5	159.0	126.2	20.4	9.8	11.6	9.8	16.4	117.7	159.0	
G153.0	161.0	123.5	19.7	9.6	11.6	9.9	15.9	114.3	161.0	
G153.5	164.0	120.4	19.0	9.8	11.6	9.9	15.2	111.0	164.0	
G154.0	168.6	117.9	18.2	9.6	11.6	9.9	14.5	108.0	168.6	
G154.5	173.9	115.1	17.7	9.6	11.4	9.8	14.0	105.2	173.9	
G155.0	179.5	112.6	16.9	9.6	11.3	9.8	13.3	102.6	179.5	
G155.5	185.9	109.8	16.2	9.6	11.3	9.8	12.9	99.7	185.9	
G156.0	191.7	107.2	15.5	9.6	11.1	9.8	12.2	97.0	191.7	
G156.5	196.9	103.9	14.9	9.5	11.1	9.8	11.8	93.9	196.9	
G157.0	201.4	101.4	14.4	9.6	11.1	9.9	11.3	90.8	201.4	
G157.5	204.6	98.2	13.7	9.6	11.0	9.8	10.7	87.4	204.6	
G158.0	203.8	94.8	13.2	9.5	11.0	9.8	10.3	83.4	203.8	
G158.5	200.1	91.3	12.6	9.5	10.9	9.6	9.9	79.6	200.1	
G159.0	195.0	87.4	12.1	9.5	10.7	9.6	9.5	75.0	195.0	
G159.5	188.5	83.3	11.6	9.4	10.9	9.6	9.1	71.1	188.5	
G160.0	178.9	78.7	11.1	9.5	10.7	9.6	8.8	66.4	178.9	
G160.5	169.2	73.8	10.6	9.5	10.6	9.5	8.4	62.5	169.2	
G161.0	159.5	69.3	10.2	9.4	10.6	9.5	8.1	57.9	159.5	
G161.5	147.4	64.4	9.8	9.4	10.5	9.5	7.9	53.8	147.4	
G162.0	137.9	59.8	9.4	9.4	10.5	9.5	7.6	49.0	137.9	
G162.5	126.0	55.0	9.0	9.4	10.3	9.4	7.6	45.3	126.0	
G163.0	117.7	50.4	8.7	9.4	10.5	9.4	7.2	40.9	117.7	
G163.5	109.4	45.9	8.4	9.2	10.2	9.4	7.1	36.5	109.4	
G164.0	102.2	41.6	8.0	9.2	10.2	9.2	6.9	32.5	102.2	
G164.5	95.9	37.2	7.9	9.1	10.1	9.2	6.9	29.1	95.9	
G165.0	90.4	33.4	7.6	9.1	10.1	9.1	6.9	25.5	90.4	
G165.5	86.4	29.8	7.5	9.1	9.9	9.1	6.9	22.1	86.4	
G166.0	81.7	26.6	7.3	9.1	9.9	9.1	6.9	18.8	81.7	

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:

**Candlepower Table (Continue 9)**

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G166.5	77.7	23.2	7.1	9.0	9.8	9.0	6.9	15.1	77.7	
G167.0	73.8	20.3	7.1	9.0	9.8	9.0	6.9	11.4	73.8	
G167.5	69.0	16.9	6.9	8.8	9.6	9.0	7.1	5.0	69.0	
G168.0	64.1	13.3	6.9	8.8	9.6	9.0	7.1	5.0	64.1	
G168.5	58.0	8.6	6.9	8.8	9.5	8.8	7.1	5.2	58.0	
G169.0	53.4	5.0	7.1	8.7	9.5	8.8	7.1	5.3	53.4	
G169.5	48.4	5.2	6.9	8.7	9.4	8.7	7.1	5.4	48.4	
G170.0	43.6	5.3	7.1	8.7	9.2	8.7	7.1	5.4	43.6	
G170.5	38.0	5.3	7.1	8.6	9.2	8.6	7.2	5.6	38.0	
G171.0	32.9	5.4	7.1	8.4	9.0	8.6	7.2	5.6	32.9	
G171.5	28.0	5.6	7.1	8.6	9.0	8.4	7.2	5.7	28.0	
G172.0	22.7	5.6	7.1	8.4	8.8	8.4	7.2	5.8	22.7	
G172.5	17.3	5.7	7.1	8.3	8.7	8.3	7.2	5.8	17.3	
G173.0	11.6	5.8	7.2	8.3	8.6	8.1	7.2	6.0	11.6	
G173.5	5.4	6.0	7.1	8.1	8.6	8.1	7.2	6.1	5.4	
G174.0	5.4	6.0	7.2	8.1	8.4	8.1	7.2	6.1	5.4	
G174.5	5.6	6.1	7.2	8.1	8.3	8.0	7.2	6.3	5.6	
G175.0	5.7	6.1	7.2	8.0	8.1	7.9	7.2	6.3	5.7	
G175.5	5.8	6.3	7.2	8.0	8.0	7.9	7.2	6.4	5.8	
G176.0	6.0	6.4	7.2	7.9	8.0	7.7	7.3	6.5	6.0	
G176.5	6.0	6.4	7.2	7.7	7.9	7.7	7.3	6.5	6.0	
G177.0	6.1	6.5	7.2	7.7	7.7	7.7	7.2	6.7	6.1	
G177.5	6.4	6.5	7.2	7.7	7.6	7.6	7.3	6.8	6.4	
G178.0	6.4	6.8	7.3	7.6	7.5	7.6	7.3	6.9	6.4	
G178.5	6.5	6.8	7.2	7.5	7.3	7.5	7.2	7.1	6.5	
G179.0	6.7	6.9	7.2	7.5	7.3	7.3	7.3	7.1	6.7	
G179.5	6.9	7.1	7.3	7.3	7.1	7.2	7.2	7.1	6.9	
G180.0	6.9	7.1	7.2	7.2	6.9	7.1	7.3	7.3	6.9	

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

Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector: