

Report No.:

Test Time: 2016-04-18 19:33

## Luminaire Property

Luminaire Manufacturer: P.Q.L., Inc.  
Luminaire Description: 83241  
Current: 0.584 A  
Power Factor: 0.986

Voltage: 120.5 V  
Power: 69.40 W

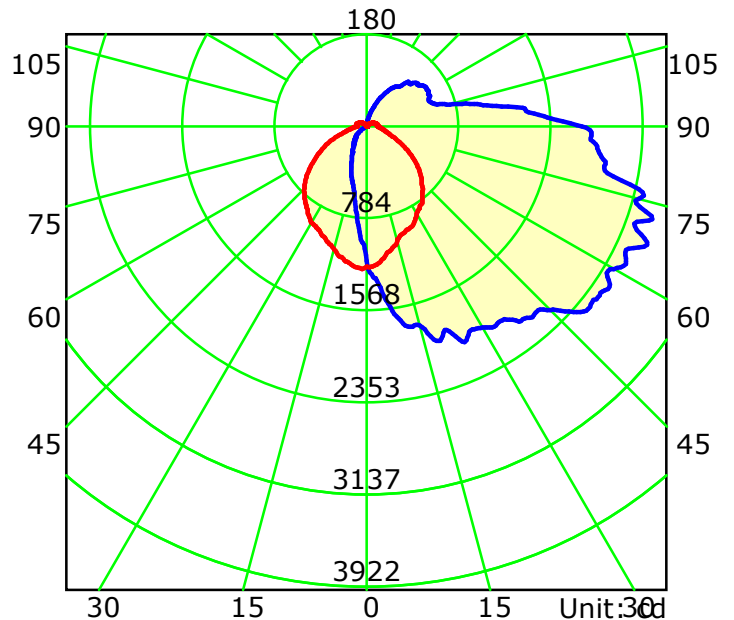
## Photometric Results

CIE Class: Semi-Direct	Total Rated Lamp Lumens: 6578.3 lm
Measurement Flux: 6578.3 lm	Efficiency: 100%
Downward Ratio: 80%	Upward Ratio: 20%
Horizontal Diffuse Angle(10%,25%,50%,75%): H204.2,H133.3,H108.3,H90.5	
Vertical Diffuse Angle(10%,25%,50%,75%): V165.3,V134.1,V102.7,V60.3	
Luminaire Efficacy Rating (LER): 94.84	Central Intensity: 1144.9 cd
Max. Intensity: 2593.29 cd	Pos of Max. Intensity: H0 V67
S/MH(C0/C180): 1.51	S/MH(C90/C270): 1.13

Picture Of Luminaire



Luminous Intensity Distribution Curve



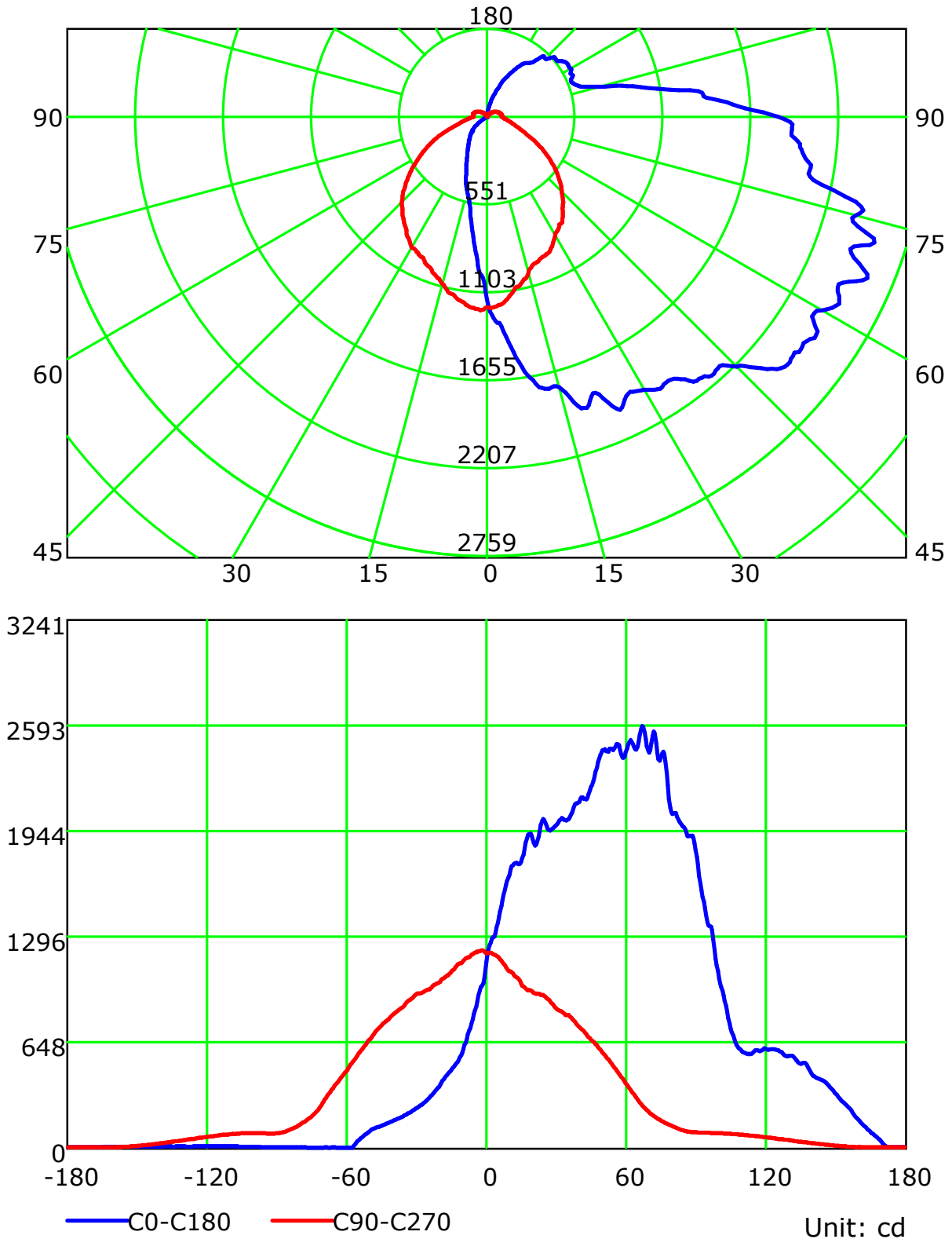
Average Diffuse Angle(50%): 99.8°

— 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:

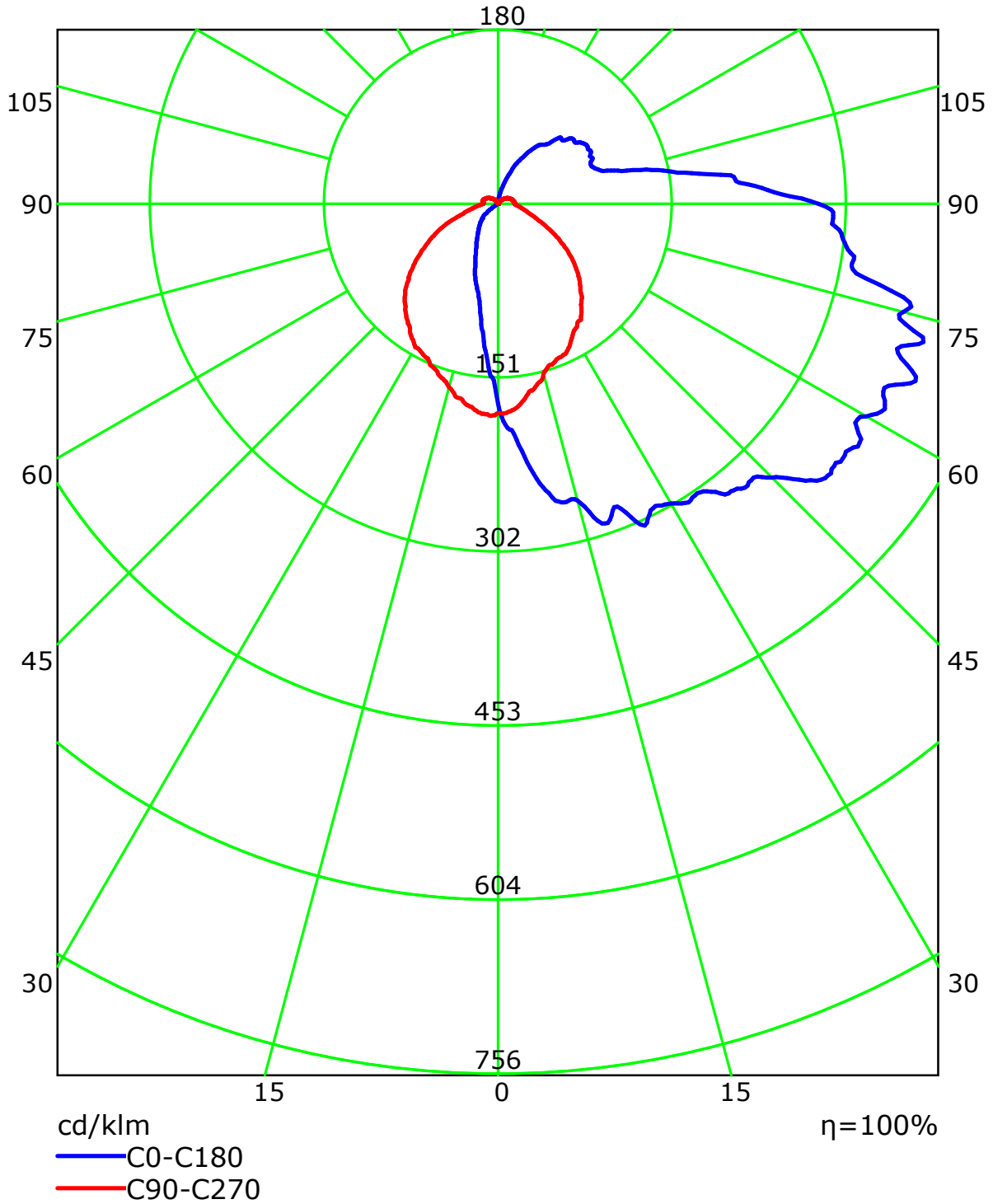
## Luminous Intensity Distribution Curve



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)



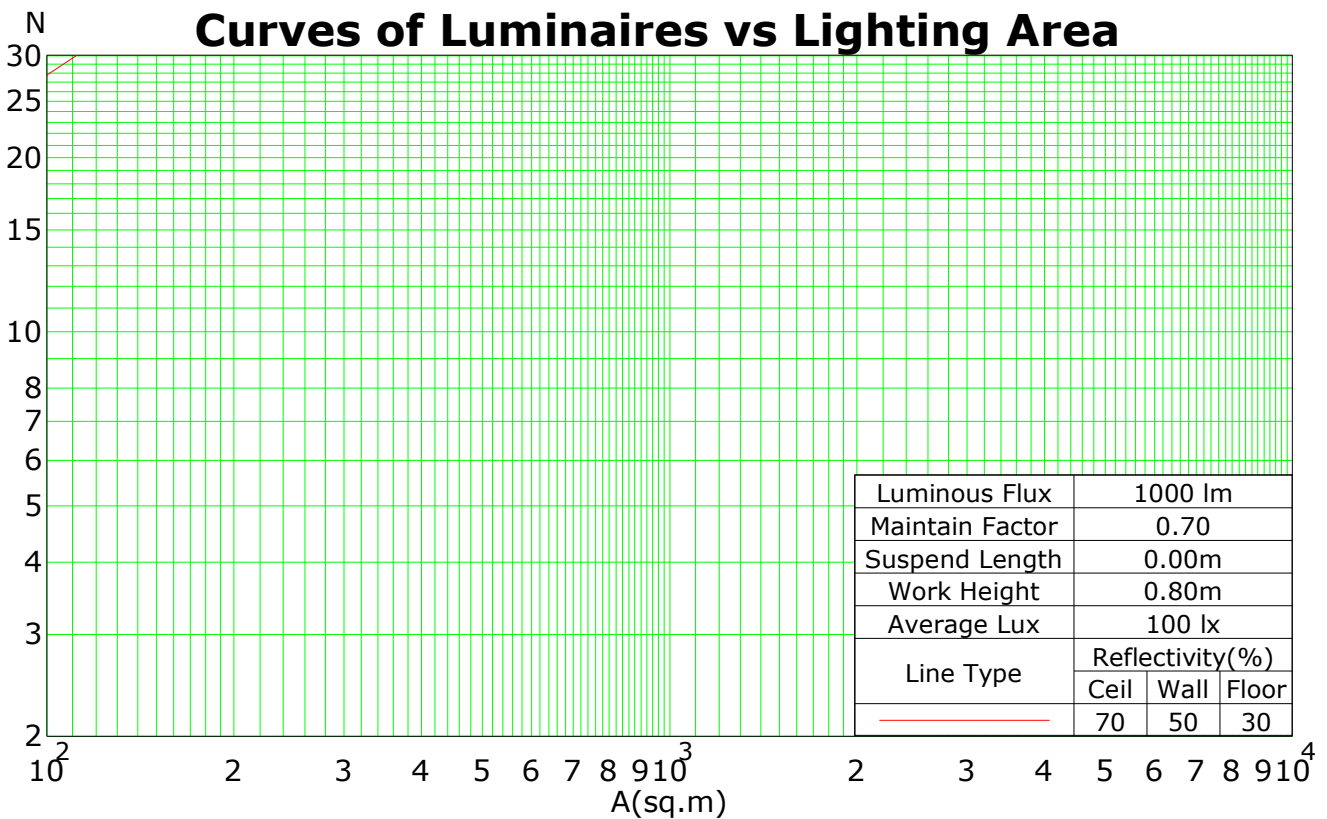
C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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	100	100	100	92	92	92	84	84	84	80
1	100	93	87	82	95	89	84	79	81	77	73	74	70	67	67	64	61	58
2	89	79	70	63	84	75	67	61	68	62	56	62	57	52	56	52	48	45
3	80	68	58	50	76	65	56	49	59	51	45	53	47	42	48	43	39	36
4	73	59	49	41	69	56	47	40	51	43	37	46	40	35	42	37	32	29
5	66	52	42	35	63	50	41	34	45	38	32	41	35	29	37	32	27	24
6	61	46	37	30	58	44	35	29	41	33	27	37	30	25	34	28	24	21
7	56	42	32	26	53	40	31	25	37	29	24	33	27	22	31	25	21	18
8	52	38	29	23	49	36	28	22	33	26	21	31	24	19	28	22	18	16
9	49	35	26	20	46	33	25	20	31	23	18	28	22	17	26	20	16	14
10	45	32	24	18	43	31	23	18	28	21	17	26	20	16	24	18	15	13

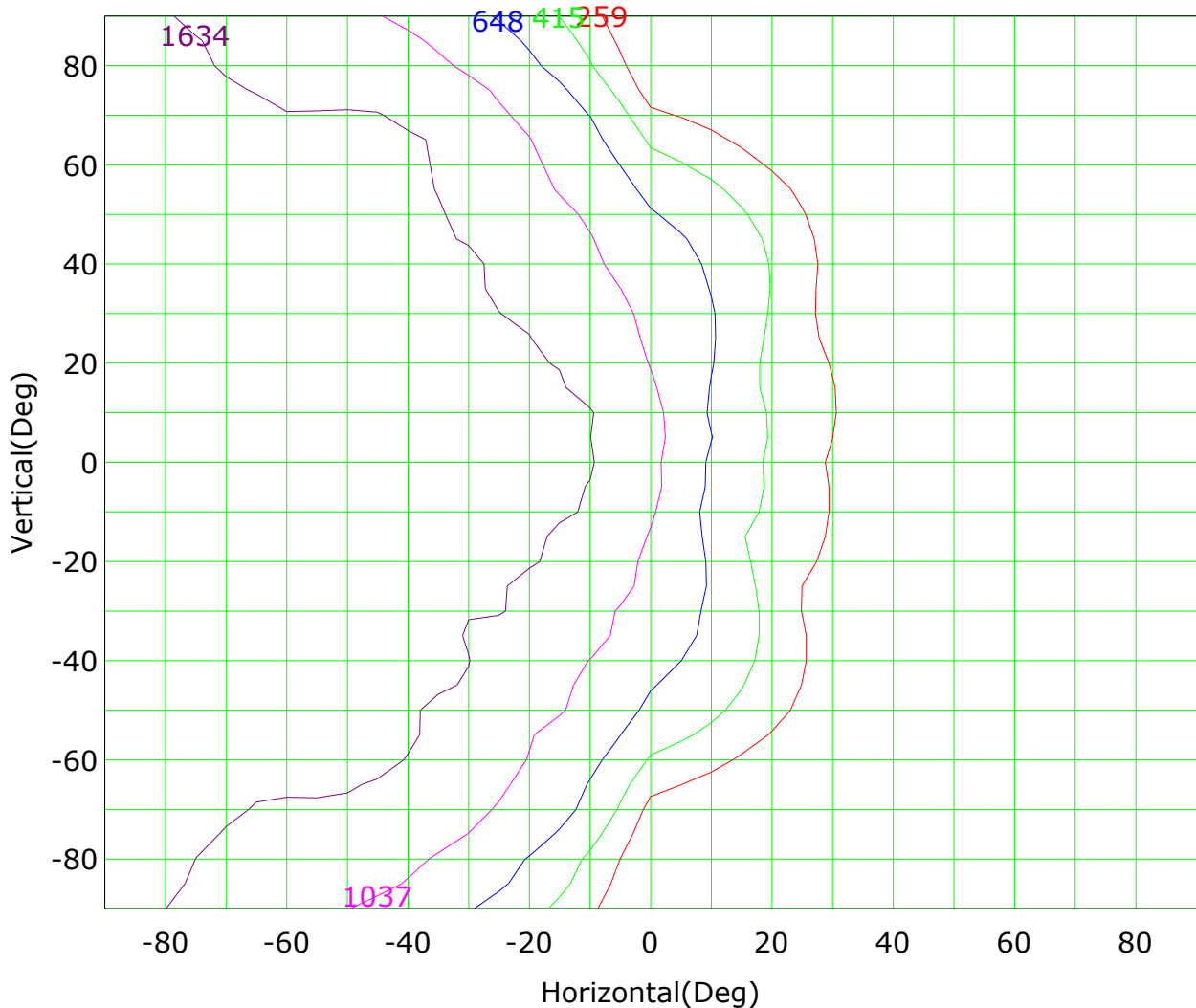
Spacing Criteria (0-180): 1.51  
 Spacing Criteria (90-270): 1.13  
 Spacing Criteria (Diagonal): 1.57



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)



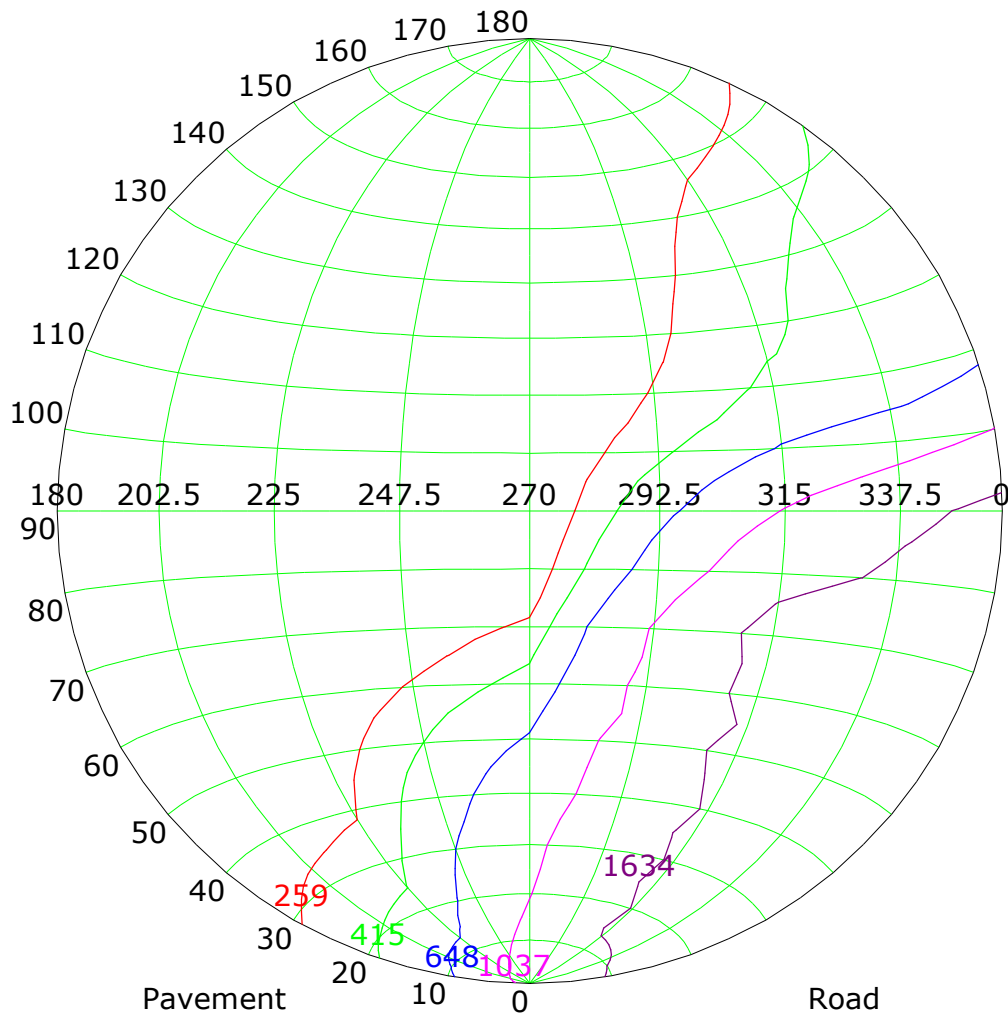
Imax (100%): 2593 cd

- |                 |                 |
|-----------------|-----------------|
| ( 10%): 259 cd  | ( 16%): 415 cd  |
| ( 25%): 648 cd  | ( 40%): 1037 cd |
| ( 63%): 1634 cd | (100%): 2593 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)



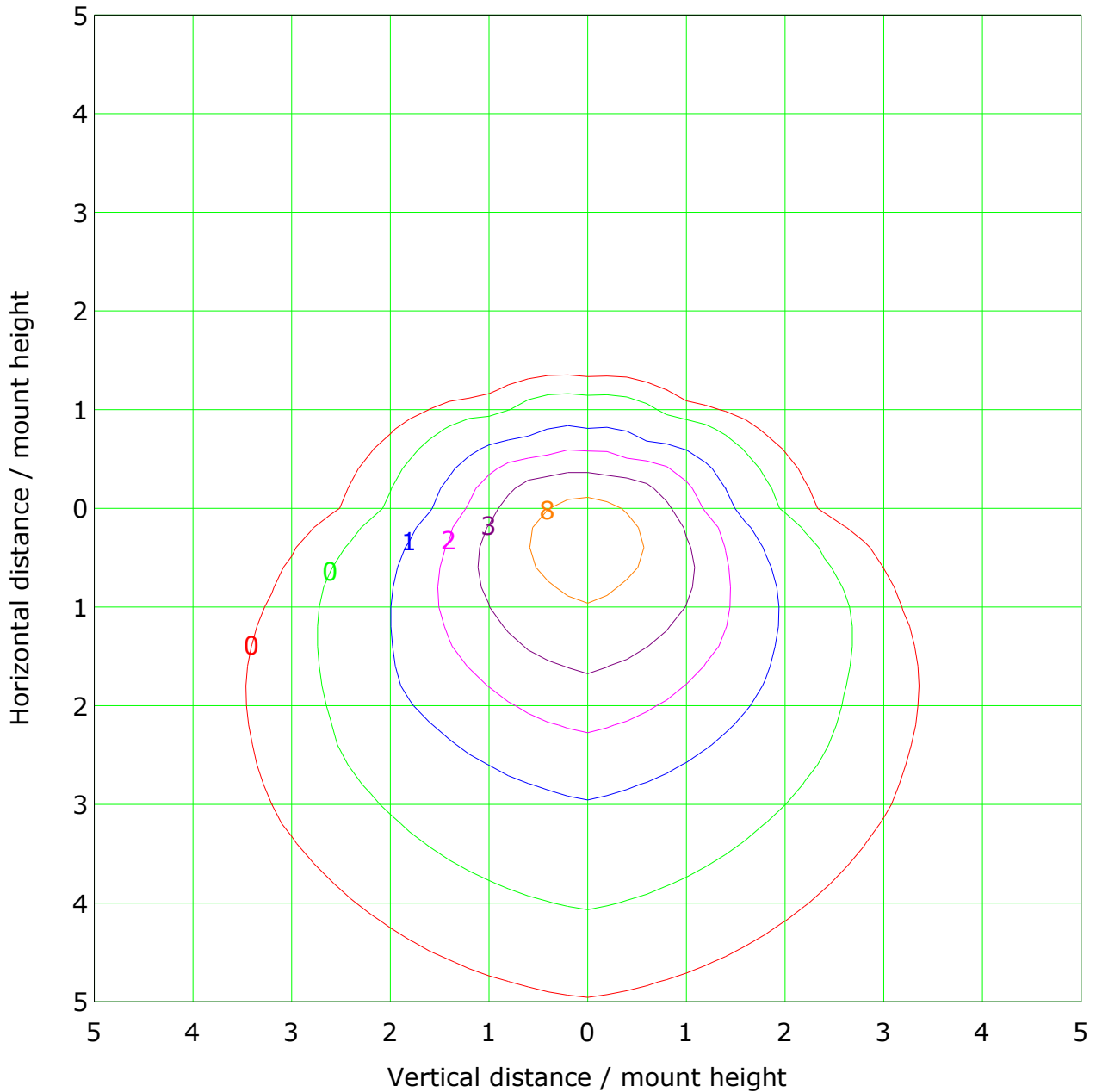
Imax (100%): 2593 cd

- |                   |                   |
|-------------------|-------------------|
| — ( 10%): 259 cd  | — ( 16%): 415 cd  |
| — ( 25%): 648 cd  | — ( 40%): 1037 cd |
| — ( 63%): 1634 cd | — (100%): 2593 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%): 16.5 lx

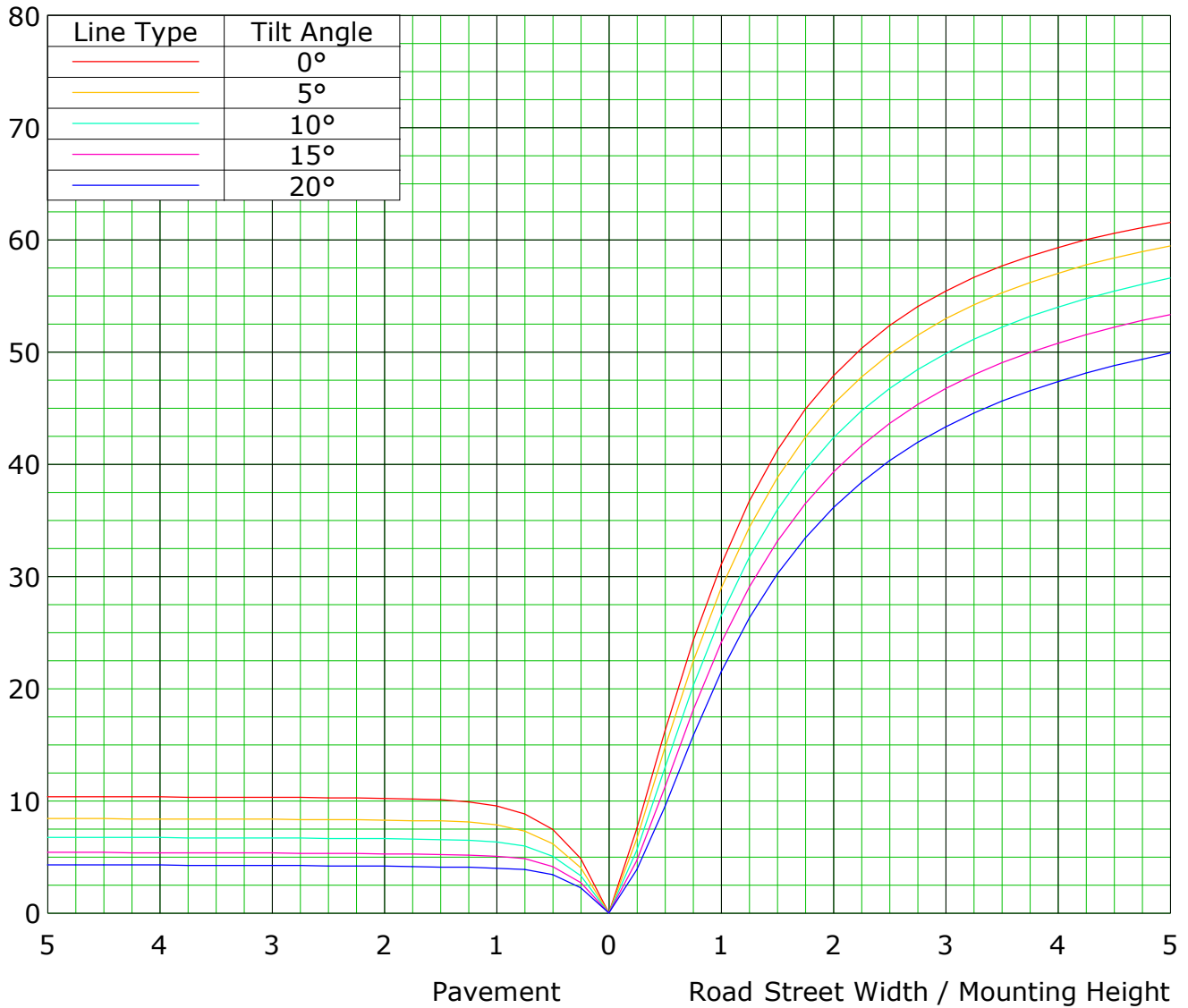
( 1%): 0.2 lx	( 2%): 0.3 lx
( 5%): 0.8 lx	( 10%): 1.7 lx
( 20%): 3.3 lx	( 50%): 8.3 lx
(100%): 16.5 lx	

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:

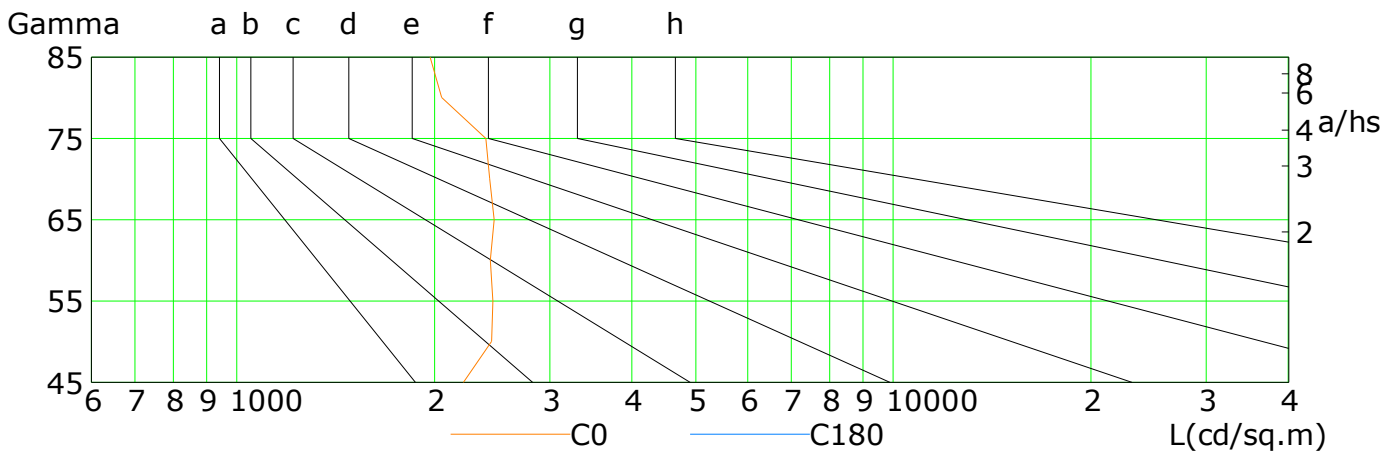
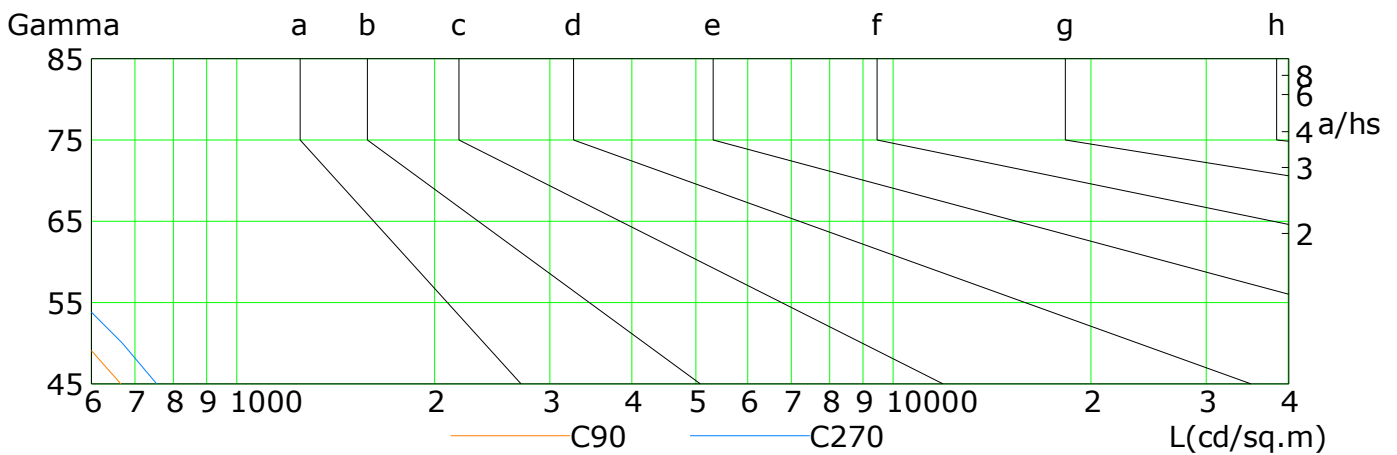
Gamma Plane (°):0.0-180.0:0.5  
 Test Device: GPM-1600  
 Distance: 8.800 m  
 Humidity:  
 Inspector:



## 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

a b c d e f g h

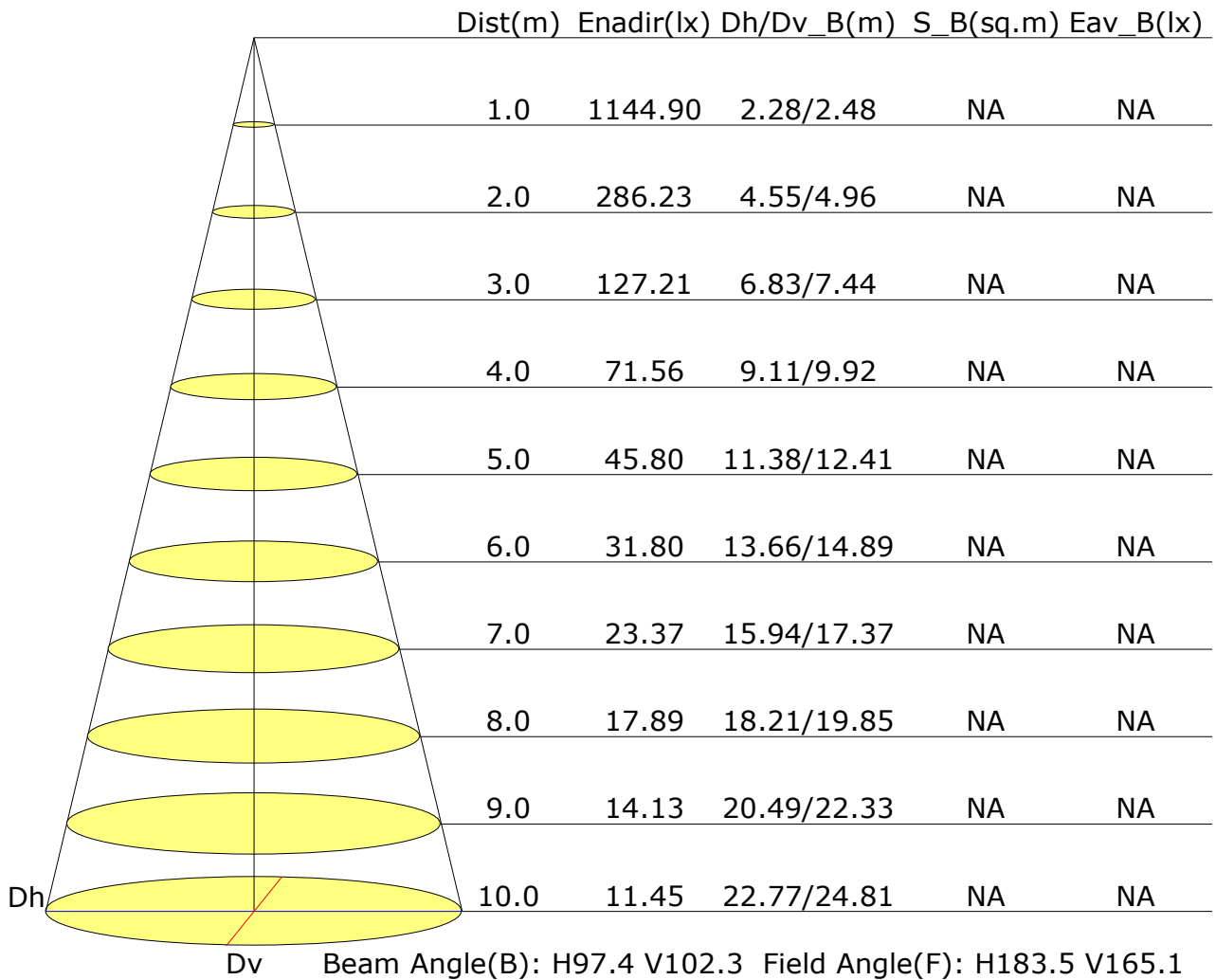


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2217	2443	2454	2432	2464	2427	2398	2052	1972
C90	666	586	495	397	299	219	169	134	107
C180	138	106	47	3	3	2	3	3	4
C270	755	669	581	478	386	286	197	146	109

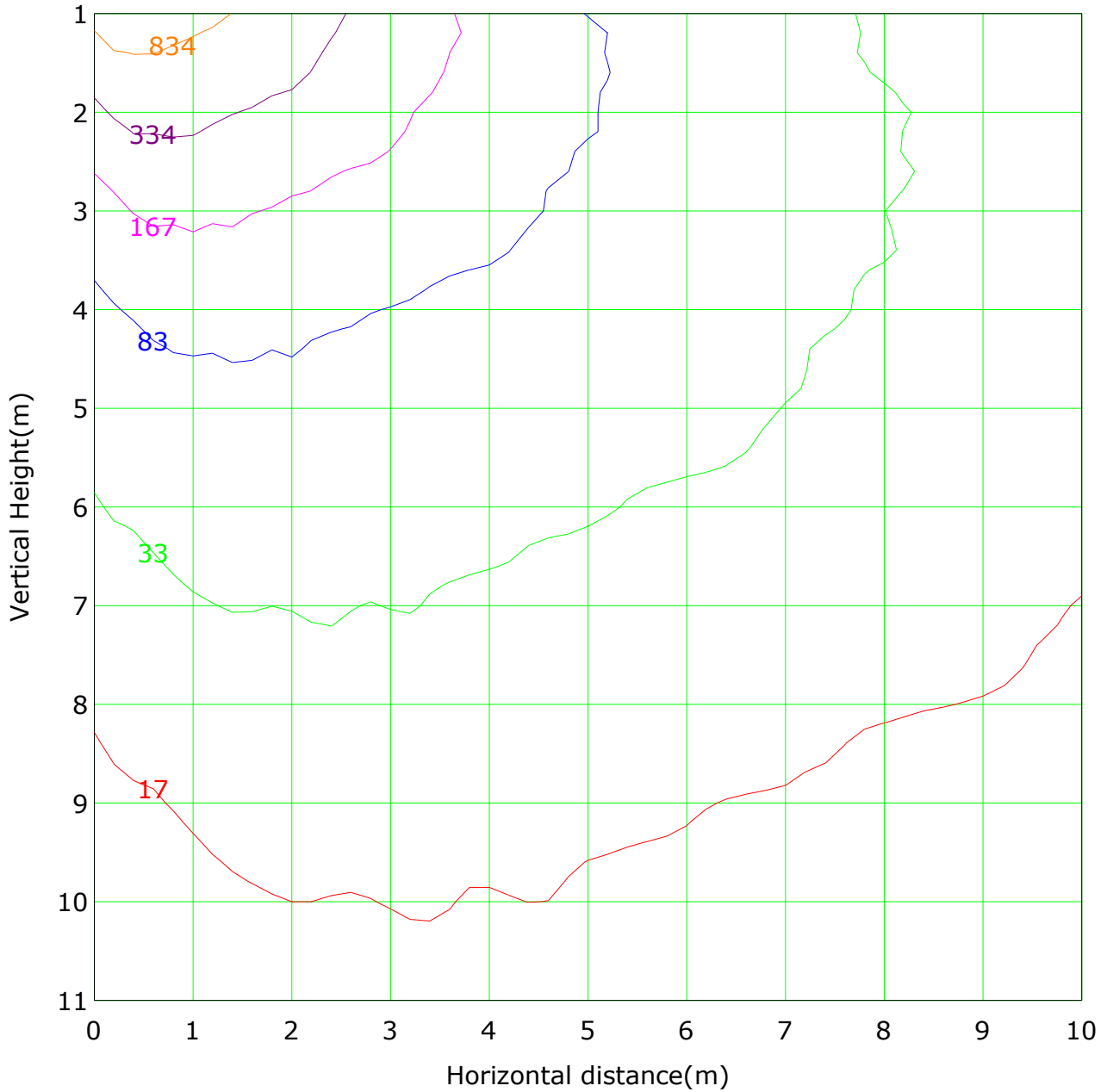
C Plane (°):0.0-360.0: 45.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

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: 1668.2 lx  
— ( 1%): 16.7 lx                      — ( 2%): 33.4 lx  
— ( 5%): 83.4 lx                        — ( 10%): 166.8 lx  
— ( 20%): 333.6 lx                     — ( 50%): 834.1 lx  
— (100%):1668.2 lx

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)	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Flux(E)	Flux(T)	0.0	0.1	0.1	0.1	0.2	0.3	0.8	1.5	2.3	3.0	7.2	14.4	20.4	24.4	25.7	23.5	19.1	12.8	4.7
0.0	0.1	0.1	0.1	0.2	0.3	0.8	1.5	2.3	3.0	7.2	14.4	20.4	24.4	25.7	23.5	19.1	12.8	4.7	160.5	148.9
0.0	0.1	0.1	0.2	0.3	1.0	2.3	3.9	5.4	11.0	19.9	26.7	31.1	31.4	26.8	20.8	13.4	4.8	199.3	185.0	
0.0	0.1	0.1	0.2	1.3	3.9	7.1	10.3	16.8	26.1	33.5	37.9	37.4	31.5	22.8	14.0	4.8	247.7	237.2		
0.0	0.1	0.1	0.3	2.3	6.4	11.0	15.5	22.1	30.1	36.4	40.6	40.4	34.9	25.7	14.7	4.9	285.5	278.5		
0.0	0.1	0.2	1.3	3.5	8.1	14.0	20.1	27.3	35.2	40.8	42.5	41.0	36.3	27.7	15.7	5.0	318.8	311.7		
0.0	0.1	0.5	2.2	4.4	8.4	15.4	23.1	31.5	38.8	43.4	45.8	42.3	37.0	29.0	16.7	5.1	343.7	334.7		
0.0	0.1	0.7	2.9	5.2	8.1	15.3	25.0	35.2	43.7	47.5	45.8	44.6	38.2	29.8	17.5	5.2	364.8	354.4		
0.0	0.1	0.9	3.2	5.5	8.9	14.3	26.1	39.7	48.8	49.6	47.6	45.7	39.8	30.7	18.2	5.2	384.1	374.7		
0.0	0.1	0.9	3.1	5.3	8.9	14.9	27.0	42.7	51.5	52.3	49.7	47.2	41.7	31.6	18.6	5.3	400.8	391.1		
0.0	0.9	3.1	5.2	8.7	14.3	25.7	42.1	50.9	51.8	49.5	46.9	41.6	31.5	18.6	5.3	396.2	386.4			
0.0	0.8	3.0	5.2	8.2	13.2	24.2	37.8	46.6	48.5	47.2	45.1	39.6	30.5	18.1	5.2	373.3	363.2			
0.0	0.6	2.6	4.7	7.4	14.0	23.4	33.4	41.7	46.0	44.7	44.1	37.6	29.5	17.3	5.1	352.2	341.3			
0.0	0.3	1.9	3.9	7.5	14.0	21.2	29.3	37.3	41.5	44.0	41.8	36.1	28.5	16.5	5.1	328.9	320.2			
0.0	0.1	0.8	3.0	7.1	12.4	17.8	24.7	32.6	39.2	41.4	39.1	35.2	27.1	15.5	5.0	300.9	293.9			
0.0	0.1	0.1	1.5	5.1	9.3	13.3	19.8	27.9	33.8	38.1	38.2	33.5	25.0	14.4	4.9	264.8	257.5			
0.0	0.1	0.1	1.0	2.9	5.4	8.0	14.2	23.3	30.7	35.1	35.1	29.8	21.8	13.7	4.8	226.0	213.4			
0.0	0.1	0.1	0.8	1.9	3.2	4.6	9.8	18.1	24.4	28.2	28.6	25.0	20.0	13.1	4.7	182.7	170.0			
0.0	0.1	0.2	0.7	1.4	2.2	3.0	6.8	13.2	18.5	22.1	23.3	21.9	18.3	12.5	4.6	148.7	137.5			
0.2	0.6	1.1	6.7	25.6	55.5	106.7	185.9	296.8	451.3	599.9	684.9	715.7	697.8	610.0	469.3	281.3	89.6	5279		
0.0	0.0	0.0	0.0	0.0	0.3	68.6	163.9	277.0	441.2	599.9	684.9	715.7	697.8	610.0	469.3	281.3	89.6	5100		

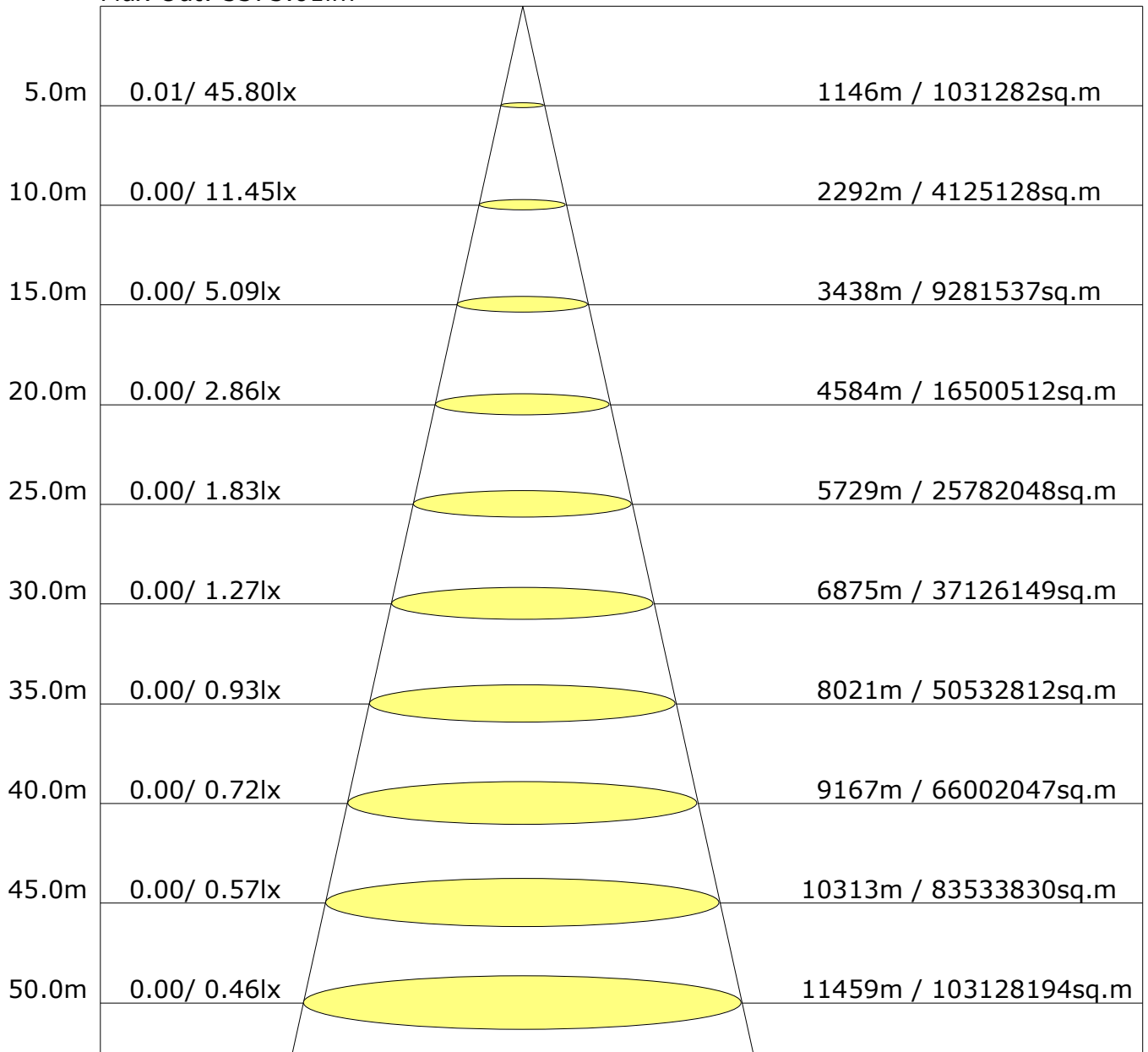
Horizontal plane

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: 5375.01lm



Height

Avg./Nadir. E

Beam Angle:179.0°

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

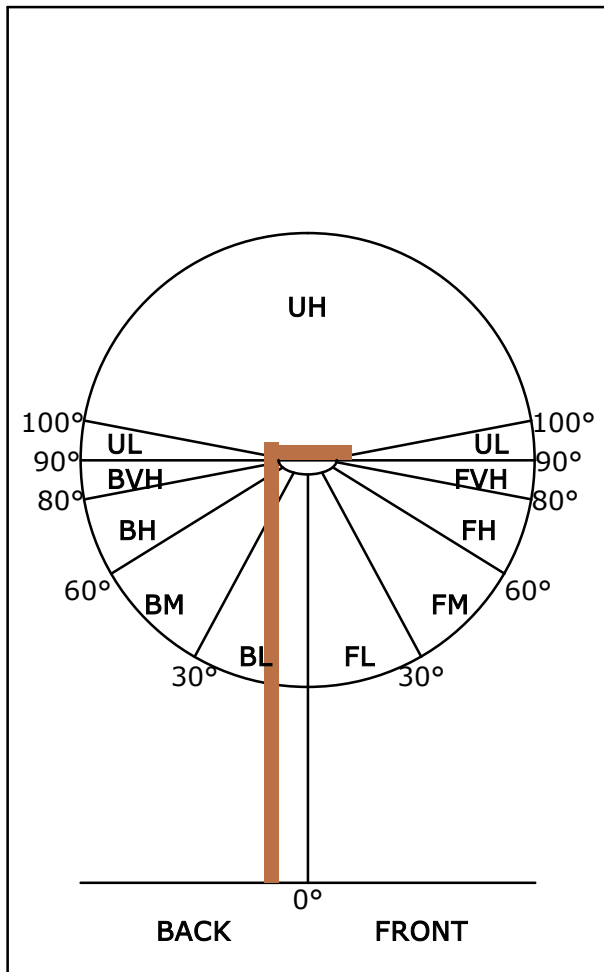
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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										
S=1.5H										
S=2.0H										

Calculate in accordance with CIE Pub.117. The table is revised with 6578lm ( $8\log(F/F_0) = 6.5$ ).

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:

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



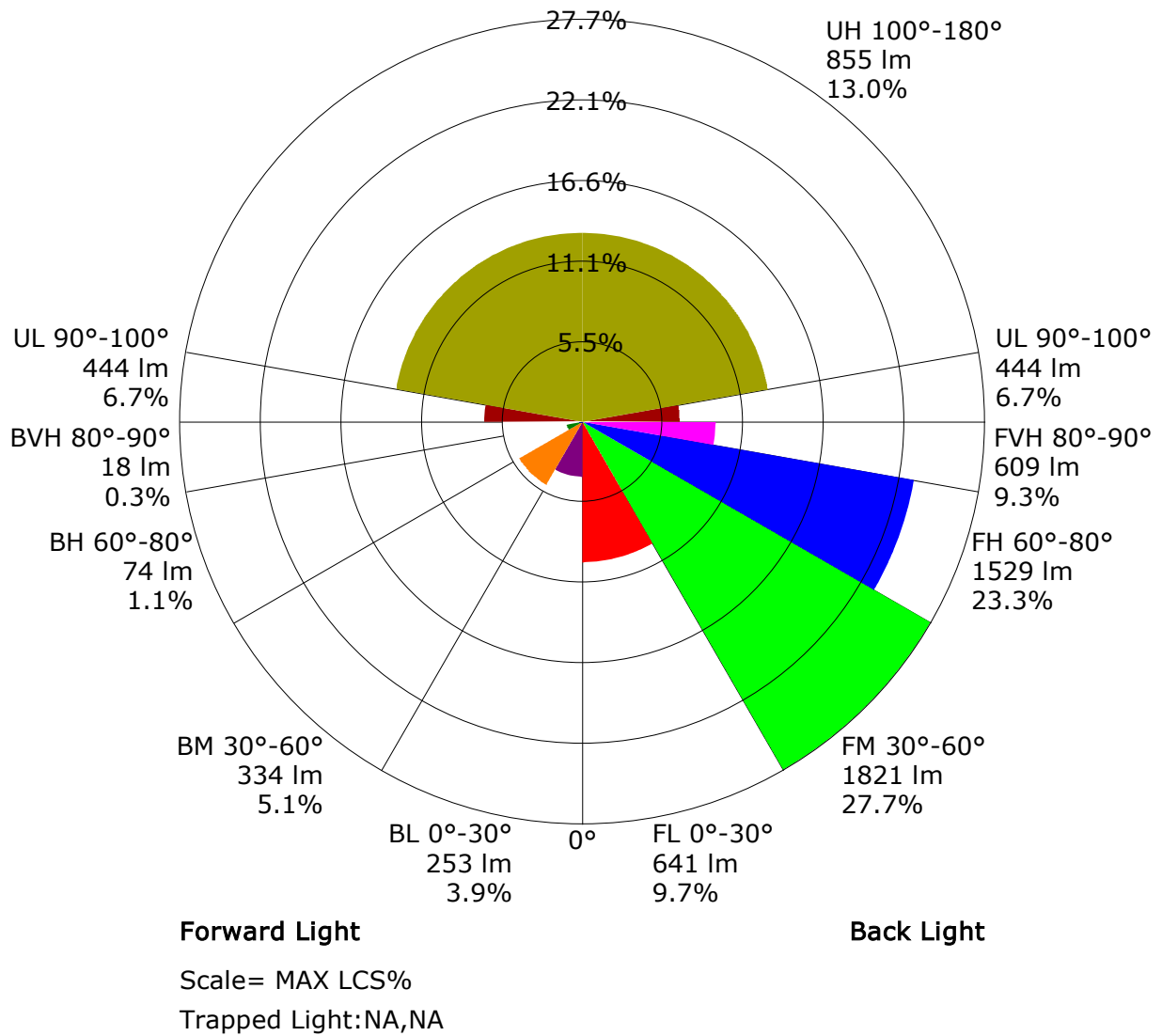
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	4600	69.9
FL ( 0°-30°)	641	9.7
FM (30°-60°)	1821	27.7
FH (60°-80°)	1529	23.3
FVH (80°-90°)	609	9.3
BACK LIGHT	679	10.3
BL ( 0°-30°)	253	3.9
BM (30°-60°)	334	5.1
BH (60°-80°)	74	1.1
BVH (80°-90°)	18	0.3
UP LIGHT	1299	19.7
UL (90°-100°)	444	6.7
UH (100°-180°)	855	13.0
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U5 G4
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U5 G4

C Plane (°):0.0-360.0: 45.0  
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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	0.60	0.65	0.72	0.77	0.81	0.86	0.90	
		0.30	0.36	0.44	0.51	0.56	0.64	0.70	0.74	0.81	0.85	
		0.20	0.30	0.37	0.44	0.50	0.58	0.64	0.69	0.76	0.80	
0.50	0.50	0.20	0.41	0.48	0.55	0.59	0.66	0.70	0.74	0.79	0.82	
		0.30	0.34	0.41	0.47	0.52	0.59	0.65	0.69	0.74	0.78	
		0.20	0.29	0.35	0.42	0.46	0.54	0.60	0.64	0.70	0.74	
0.30	0.50	0.20	0.38	0.44	0.50	0.54	0.60	0.64	0.67	0.72	0.75	
		0.30	0.32	0.38	0.44	0.48	0.55	0.59	0.63	0.68	0.72	
		0.20	0.27	0.33	0.39	0.43	0.50	0.55	0.59	0.65	0.69	
0.00	0.00	0.00	0.23	0.28	0.33	0.37	0.43	0.48	0.51	0.56	0.60	

Rating:69W 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	1.07	0.93	0.82	0.73	0.61	0.52	0.46	0.37	0.31
	0.30		0.89	0.80	0.71	0.65	0.55	0.48	0.42	0.35	0.30
	0.20		0.76	0.70	0.63	0.58	0.50	0.44	0.40	0.33	0.28
0.50	0.50	0.20	0.99	0.87	0.76	0.68	0.57	0.51	0.43	0.35	0.29
	0.30		0.84	0.75	0.67	0.61	0.52	0.45	0.40	0.33	0.28
	0.20		0.73	0.66	0.60	0.55	0.48	0.42	0.38	0.31	0.27
0.30	0.50	0.20	0.92	0.80	0.70	0.63	0.53	0.45	0.40	0.32	0.27
	0.30		0.79	0.71	0.63	0.57	0.49	0.42	0.38	0.31	0.26
	0.20		0.69	0.63	0.57	0.52	0.45	0.40	0.36	0.30	0.25
0.00	0.00	0.00	0.57	0.53	0.47	0.43	0.37	0.33	0.29	0.24	0.21

Rating:69W 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	0.36	0.38	0.38	0.39	0.40	0.40	0.41	0.41	0.41
	0.30		0.29	0.30	0.31	0.32	0.34	0.35	0.36	0.37	0.37
	0.20		0.23	0.25	0.26	0.27	0.29	0.30	0.31	0.33	0.34
0.50	0.50	0.20	0.35	0.36	0.37	0.38	0.38	0.39	0.39	0.39	0.39
	0.30		0.28	0.30	0.31	0.31	0.33	0.34	0.34	0.35	0.36
	0.20		0.23	0.24	0.26	0.26	0.28	0.29	0.30	0.32	0.33
0.30	0.50	0.20	0.34	0.35	0.36	0.36	0.37	0.37	0.37	0.38	0.38
	0.30		0.28	0.29	0.30	0.31	0.32	0.33	0.33	0.34	0.35
	0.20		0.23	0.24	0.25	0.26	0.28	0.29	0.30	0.31	0.32
0.00	0.00	0.00	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
<p>Rating:69W 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	1171.2	0.3	0.3	0.00	0.00
0.5-1.0	1168.6	0.8	1.1	0.01	0.02
1.0-1.5	1164.3	1.4	2.5	0.02	0.04
1.5-2.0	1160.4	1.9	4.5	0.03	0.07
2.0-2.5	1158.8	2.5	6.9	0.04	0.11
2.5-3.0	1157.0	3.0	10.0	0.05	0.15
3.0-3.5	1152.8	3.6	13.6	0.05	0.21
3.5-4.0	1147.7	4.1	17.7	0.06	0.27
4.0-4.5	1144.0	4.6	22.3	0.07	0.34
4.5-5.0	1141.3	5.2	27.5	0.08	0.42
5.0-5.5	1139.3	5.7	33.2	0.09	0.51
5.5-6.0	1137.9	6.3	39.5	0.10	0.60
6.0-6.5	1136.4	6.8	46.3	0.10	0.70
6.5-7.0	1135.4	7.3	53.6	0.11	0.81
7.0-7.5	1135.8	7.9	61.4	0.12	0.93
7.5-8.0	1136.4	8.4	69.9	0.13	1.06
8.0-8.5	1135.4	8.9	78.8	0.14	1.20
8.5-9.0	1134.0	9.5	88.2	0.14	1.34
9.0-9.5	1131.8	10.0	98.2	0.15	1.49
9.5-10.0	1129.3	10.5	108.7	0.16	1.65
10.0-10.5	1127.9	11.0	119.7	0.17	1.82
10.5-11.0	1125.7	11.5	131.2	0.18	1.99
11.0-11.5	1122.2	12.0	143.2	0.18	2.18
11.5-12.0	1117.6	12.5	155.7	0.19	2.37
12.0-12.5	1112.6	12.9	168.7	0.20	2.56
12.5-13.0	1107.5	13.4	182.1	0.20	2.77
13.0-13.5	1103.7	13.9	195.9	0.21	2.98
13.5-14.0	1101.6	14.4	210.3	0.22	3.20
14.0-14.5	1098.8	14.8	225.1	0.23	3.42
14.5-15.0	1095.5	15.3	240.4	0.23	3.65
15.0-15.5	1091.6	15.7	256.1	0.24	3.89
15.5-16.0	1086.9	16.2	272.3	0.25	4.14
16.0-16.5	1082.8	16.6	288.9	0.25	4.39
16.5-17.0	1079.3	17.1	306.0	0.26	4.65
17.0-17.5	1076.2	17.5	323.5	0.27	4.92
17.5-18.0	1073.6	17.9	341.4	0.27	5.19

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	1070.8	18.4	359.8	0.28	5.47
18.5-19.0	1066.7	18.8	378.6	0.29	5.76
19.0-19.5	1060.9	19.2	397.8	0.29	6.05
19.5-20.0	1053.4	19.5	417.3	0.30	6.34
20.0-20.5	1045.7	19.8	437.2	0.30	6.65
20.5-21.0	1039.8	20.2	457.4	0.31	6.95
21.0-21.5	1036.8	20.6	478.0	0.31	7.27
21.5-22.0	1037.3	21.1	499.0	0.32	7.59
22.0-22.5	1040.1	21.6	520.6	0.33	7.91
22.5-23.0	1043.7	22.1	542.8	0.34	8.25
23.0-23.5	1046.9	22.7	565.4	0.34	8.60
23.5-24.0	1049.2	23.2	588.6	0.35	8.95
24.0-24.5	1050.7	23.7	612.3	0.36	9.31
24.5-25.0	1050.0	24.1	636.4	0.37	9.67
25.0-25.5	1046.5	24.5	660.8	0.37	10.05
25.5-26.0	1040.1	24.8	685.6	0.38	10.42
26.0-26.5	1033.2	25.1	710.7	0.38	10.80
26.5-27.0	1026.6	25.3	736.0	0.39	11.19
27.0-27.5	1019.6	25.6	761.6	0.39	11.58
27.5-28.0	1013.5	25.9	787.5	0.39	11.97
28.0-28.5	1008.4	26.2	813.7	0.40	12.37
28.5-29.0	1004.2	26.5	840.1	0.40	12.77
29.0-29.5	1000.3	26.8	866.9	0.41	13.18
29.5-30.0	996.8	27.1	894.1	0.41	13.59
30.0-30.5	994.1	27.5	921.5	0.42	14.01
30.5-31.0	992.0	27.8	949.3	0.42	14.43
31.0-31.5	991.1	28.2	977.5	0.43	14.86
31.5-32.0	990.0	28.6	1006.1	0.43	15.29
32.0-32.5	989.5	29.0	1035.0	0.44	15.73
32.5-33.0	988.6	29.3	1064.4	0.45	16.18
33.0-33.5	986.8	29.7	1094.0	0.45	16.63
33.5-34.0	985.2	30.0	1124.0	0.46	17.09
34.0-34.5	983.7	30.4	1154.4	0.46	17.55
34.5-35.0	983.1	30.7	1185.1	0.47	18.02
35.0-35.5	982.6	31.1	1216.2	0.47	18.49
35.5-36.0	981.5	31.4	1247.7	0.48	18.97

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	980.1	31.8	1279.4	0.48	19.45
36.5-37.0	978.4	32.1	1311.5	0.49	19.94
37.0-37.5	976.7	32.4	1343.9	0.49	20.43
37.5-38.0	975.6	32.7	1376.7	0.50	20.93
38.0-38.5	973.4	33.0	1409.7	0.50	21.43
38.5-39.0	969.3	33.3	1443.0	0.51	21.94
39.0-39.5	964.4	33.5	1476.5	0.51	22.44
39.5-40.0	959.4	33.6	1510.1	0.51	22.96
40.0-40.5	955.1	33.8	1543.9	0.51	23.47
40.5-41.0	950.9	34.0	1578.0	0.52	23.99
41.0-41.5	946.2	34.2	1612.2	0.52	24.51
41.5-42.0	941.4	34.4	1646.5	0.52	25.03
42.0-42.5	937.4	34.6	1681.1	0.53	25.56
42.5-43.0	934.5	34.8	1715.9	0.53	26.08
43.0-43.5	932.9	35.0	1750.9	0.53	26.62
43.5-44.0	933.1	35.4	1786.3	0.54	27.15
44.0-44.5	934.5	35.8	1822.1	0.54	27.70
44.5-45.0	936.0	36.1	1858.2	0.55	28.25
45.0-45.5	937.1	36.5	1894.7	0.55	28.80
45.5-46.0	939.4	36.9	1931.6	0.56	29.36
46.0-46.5	943.1	37.4	1968.9	0.57	29.93
46.5-47.0	947.0	37.8	2006.8	0.57	30.51
47.0-47.5	950.6	38.3	2045.0	0.58	31.09
47.5-48.0	954.3	38.7	2083.8	0.59	31.68
48.0-48.5	957.8	39.2	2123.0	0.60	32.27
48.5-49.0	959.7	39.6	2162.5	0.60	32.87
49.0-49.5	960.1	39.9	2202.4	0.61	33.48
49.5-50.0	958.7	40.1	2242.5	0.61	34.09
50.0-50.5	955.8	40.3	2282.8	0.61	34.70
50.5-51.0	951.7	40.4	2323.2	0.61	35.32
51.0-51.5	945.7	40.4	2363.7	0.61	35.93
51.5-52.0	939.3	40.4	2404.1	0.61	36.55
52.0-52.5	933.1	40.5	2444.6	0.61	37.16
52.5-53.0	927.7	40.5	2485.1	0.62	37.78
53.0-53.5	922.2	40.5	2525.6	0.62	38.39
53.5-54.0	914.9	40.5	2566.0	0.61	39.01

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	907.1	40.4	2606.4	0.61	39.62
54.5-55.0	900.2	40.3	2646.7	0.61	40.23
55.0-55.5	894.3	40.3	2687.0	0.61	40.85
55.5-56.0	888.6	40.3	2727.3	0.61	41.46
56.0-56.5	882.9	40.3	2767.5	0.61	42.07
56.5-57.0	876.4	40.2	2807.7	0.61	42.68
57.0-57.5	869.1	40.1	2847.8	0.61	43.29
57.5-58.0	862.8	40.0	2887.8	0.61	43.90
58.0-58.5	858.9	40.0	2927.8	0.61	44.51
58.5-59.0	857.6	40.2	2968.0	0.61	45.12
59.0-59.5	857.9	40.4	3008.5	0.61	45.73
59.5-60.0	859.2	40.7	3049.2	0.62	46.35
60.0-60.5	859.3	40.9	3090.1	0.62	46.97
60.5-61.0	857.3	41.0	3131.1	0.62	47.60
61.0-61.5	854.3	41.1	3172.1	0.62	48.22
61.5-62.0	850.9	41.1	3213.2	0.62	48.85
62.0-62.5	846.5	41.1	3254.3	0.62	49.47
62.5-63.0	841.0	41.0	3295.3	0.62	50.09
63.0-63.5	835.4	40.9	3336.2	0.62	50.72
63.5-64.0	831.6	40.9	3377.1	0.62	51.34
64.0-64.5	830.4	41.0	3418.1	0.62	51.96
64.5-65.0	830.2	41.2	3459.3	0.63	52.59
65.0-65.5	830.4	41.4	3500.7	0.63	53.22
65.5-66.0	830.7	41.5	3542.2	0.63	53.85
66.0-66.5	830.9	41.7	3583.9	0.63	54.48
66.5-67.0	830.5	41.8	3625.7	0.64	55.12
67.0-67.5	828.8	41.9	3667.6	0.64	55.75
67.5-68.0	825.9	41.9	3709.6	0.64	56.39
68.0-68.5	823.1	41.9	3751.5	0.64	57.03
68.5-69.0	820.7	41.9	3793.4	0.64	57.67
69.0-69.5	818.6	42.0	3835.4	0.64	58.30
69.5-70.0	816.1	42.0	3877.4	0.64	58.94
70.0-70.5	812.4	41.9	3919.3	0.64	59.58
70.5-71.0	806.9	41.8	3961.1	0.63	60.21
71.0-71.5	799.4	41.5	4002.6	0.63	60.85
71.5-72.0	788.9	41.1	4043.7	0.62	61.47

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	775.9	40.5	4084.2	0.62	62.09
72.5-73.0	762.6	39.9	4124.1	0.61	62.69
73.0-73.5	750.8	39.4	4163.5	0.60	63.29
73.5-74.0	743.9	39.2	4202.7	0.60	63.89
74.0-74.5	742.0	39.2	4241.8	0.60	64.48
74.5-75.0	742.6	39.3	4281.1	0.60	65.08
75.0-75.5	743.1	39.4	4320.5	0.60	65.68
75.5-76.0	740.1	39.3	4359.9	0.60	66.28
76.0-76.5	732.9	39.0	4398.9	0.59	66.87
76.5-77.0	722.4	38.6	4437.5	0.59	67.46
77.0-77.5	708.2	37.9	4475.3	0.58	68.03
77.5-78.0	691.7	37.1	4512.4	0.56	68.60
78.0-78.5	673.7	36.2	4548.6	0.55	69.14
78.5-79.0	655.9	35.3	4583.8	0.54	69.68
79.0-79.5	641.1	34.5	4618.4	0.53	70.21
79.5-80.0	630.7	34.0	4652.4	0.52	70.72
80.0-80.5	624.4	33.7	4686.1	0.51	71.24
80.5-81.0	621.4	33.6	4719.8	0.51	71.75
81.0-81.5	620.0	33.6	4753.4	0.51	72.26
81.5-82.0	616.4	33.4	4786.8	0.51	72.77
82.0-82.5	610.2	33.2	4820.0	0.50	73.27
82.5-83.0	603.1	32.8	4852.8	0.50	73.77
83.0-83.5	596.4	32.5	4885.2	0.49	74.26
83.5-84.0	590.2	32.2	4917.4	0.49	74.75
84.0-84.5	584.5	31.9	4949.3	0.48	75.24
84.5-85.0	579.7	31.7	4981.0	0.48	75.72
85.0-85.5	574.5	31.4	5012.3	0.48	76.20
85.5-86.0	568.6	31.1	5043.4	0.47	76.67
86.0-86.5	562.2	30.8	5074.2	0.47	77.14
86.5-87.0	555.7	30.4	5104.6	0.46	77.60
87.0-87.5	548.8	30.1	5134.7	0.46	78.05
87.5-88.0	541.5	29.7	5164.3	0.45	78.51
88.0-88.5	534.9	29.3	5193.7	0.45	78.95
88.5-89.0	528.0	28.9	5222.6	0.44	79.39
89.0-89.5	519.9	28.5	5251.1	0.43	79.82
89.5-90.0	510.6	28.0	5279.1	0.43	80.25

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	500.4	27.4	5306.5	0.42	80.67
90.5-91.0	489.2	26.8	5333.4	0.41	81.07
91.0-91.5	476.7	26.1	5359.5	0.40	81.47
91.5-92.0	465.0	25.5	5385.0	0.39	81.86
92.0-92.5	454.3	24.9	5409.9	0.38	82.24
92.5-93.0	443.6	24.3	5434.2	0.37	82.61
93.0-93.5	433.9	23.8	5457.9	0.36	82.97
93.5-94.0	425.1	23.3	5481.2	0.35	83.32
94.0-94.5	416.4	22.8	5503.9	0.35	83.67
94.5-95.0	407.4	22.3	5526.2	0.34	84.01
95.0-95.5	399.3	21.8	5548.0	0.33	84.34
95.5-96.0	394.1	21.5	5569.5	0.33	84.66
96.0-96.5	389.7	21.2	5590.7	0.32	84.99
96.5-97.0	382.7	20.8	5611.6	0.32	85.30
97.0-97.5	371.8	20.2	5631.8	0.31	85.61
97.5-98.0	358.2	19.5	5651.3	0.30	85.91
98.0-98.5	345.0	18.7	5670.0	0.28	86.19
98.5-99.0	334.9	18.1	5688.1	0.28	86.47
99.0-99.5	326.1	17.6	5705.8	0.27	86.74
99.5-100.0	316.7	17.1	5722.9	0.26	87.00
100.0-100.5	307.9	16.6	5739.5	0.25	87.25
100.5-101.0	300.5	16.2	5755.7	0.25	87.50
101.0-101.5	293.7	15.8	5771.5	0.24	87.74
101.5-102.0	287.6	15.4	5786.9	0.23	87.97
102.0-102.5	281.5	15.1	5802.0	0.23	88.20
102.5-103.0	274.8	14.7	5816.7	0.22	88.42
103.0-103.5	267.6	14.3	5831.0	0.22	88.64
103.5-104.0	259.4	13.8	5844.8	0.21	88.85
104.0-104.5	251.5	13.4	5858.2	0.20	89.05
104.5-105.0	244.6	13.0	5871.1	0.20	89.25
105.0-105.5	239.2	12.7	5883.8	0.19	89.44
105.5-106.0	235.0	12.4	5896.2	0.19	89.63
106.0-106.5	231.3	12.2	5908.4	0.19	89.82
106.5-107.0	226.8	11.9	5920.3	0.18	90.00
107.0-107.5	221.7	11.6	5931.9	0.18	90.17
107.5-108.0	217.4	11.4	5943.2	0.17	90.35

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	214.4	11.2	5954.4	0.17	90.52
108.5-109.0	211.9	11.0	5965.4	0.17	90.68
109.0-109.5	209.6	10.9	5976.3	0.16	90.85
109.5-110.0	207.0	10.7	5986.9	0.16	91.01
110.0-110.5	204.5	10.5	5997.5	0.16	91.17
110.5-111.0	202.6	10.4	6007.8	0.16	91.33
111.0-111.5	200.5	10.2	6018.1	0.16	91.48
111.5-112.0	198.7	10.1	6028.2	0.15	91.64
112.0-112.5	197.3	10.0	6038.2	0.15	91.79
112.5-113.0	195.9	9.9	6048.1	0.15	91.94
113.0-113.5	194.7	9.8	6057.9	0.15	92.09
113.5-114.0	193.7	9.7	6067.7	0.15	92.24
114.0-114.5	193.1	9.7	6077.3	0.15	92.38
114.5-115.0	192.9	9.6	6086.9	0.15	92.53
115.0-115.5	192.8	9.6	6096.5	0.15	92.68
115.5-116.0	192.3	9.5	6106.0	0.14	92.82
116.0-116.5	191.2	9.4	6115.4	0.14	92.96
116.5-117.0	189.8	9.3	6124.7	0.14	93.10
117.0-117.5	188.6	9.2	6133.9	0.14	93.24
117.5-118.0	188.0	9.1	6143.0	0.14	93.38
118.0-118.5	187.7	9.1	6152.1	0.14	93.52
118.5-119.0	187.5	9.0	6161.1	0.14	93.66
119.0-119.5	187.1	9.0	6170.0	0.14	93.79
119.5-120.0	186.3	8.9	6178.9	0.13	93.93
120.0-120.5	185.3	8.8	6187.7	0.13	94.06
120.5-121.0	184.1	8.7	6196.3	0.13	94.19
121.0-121.5	183.3	8.6	6204.9	0.13	94.32
121.5-122.0	182.8	8.5	6213.5	0.13	94.45
122.0-122.5	182.5	8.5	6221.9	0.13	94.58
122.5-123.0	182.1	8.4	6230.3	0.13	94.71
123.0-123.5	181.6	8.3	6238.6	0.13	94.84
123.5-124.0	181.0	8.3	6246.9	0.13	94.96
124.0-124.5	180.2	8.2	6255.1	0.12	95.09
124.5-125.0	179.1	8.1	6263.1	0.12	95.21
125.0-125.5	178.0	8.0	6271.1	0.12	95.33
125.5-126.0	177.0	7.9	6279.0	0.12	95.45

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	175.9	7.8	6286.8	0.12	95.57
126.5-127.0	174.7	7.7	6294.4	0.12	95.68
127.0-127.5	173.1	7.6	6302.0	0.11	95.80
127.5-128.0	171.4	7.4	6309.4	0.11	95.91
128.0-128.5	170.1	7.3	6316.7	0.11	96.02
128.5-129.0	169.1	7.2	6324.0	0.11	96.13
129.0-129.5	168.4	7.2	6331.1	0.11	96.24
129.5-130.0	168.0	7.1	6338.2	0.11	96.35
130.0-130.5	167.7	7.0	6345.2	0.11	96.46
130.5-131.0	167.2	6.9	6352.2	0.11	96.56
131.0-131.5	166.6	6.9	6359.0	0.10	96.67
131.5-132.0	165.5	6.8	6365.8	0.10	96.77
132.0-132.5	164.2	6.7	6372.5	0.10	96.87
132.5-133.0	162.6	6.5	6379.0	0.10	96.97
133.0-133.5	160.8	6.4	6385.4	0.10	97.07
133.5-134.0	158.9	6.3	6391.7	0.10	97.16
134.0-134.5	157.1	6.2	6397.9	0.09	97.26
134.5-135.0	155.8	6.1	6404.0	0.09	97.35
135.0-135.5	155.0	6.0	6410.0	0.09	97.44
135.5-136.0	154.7	5.9	6415.9	0.09	97.53
136.0-136.5	154.4	5.9	6421.7	0.09	97.62
136.5-137.0	153.8	5.8	6427.5	0.09	97.71
137.0-137.5	152.6	5.7	6433.2	0.09	97.79
137.5-138.0	150.5	5.5	6438.7	0.08	97.88
138.0-138.5	147.9	5.4	6444.1	0.08	97.96
138.5-139.0	145.0	5.2	6449.4	0.08	98.04
139.0-139.5	142.1	5.1	6454.5	0.08	98.12
139.5-140.0	139.5	4.9	6459.4	0.08	98.19
140.0-140.5	137.2	4.8	6464.2	0.07	98.27
140.5-141.0	135.1	4.7	6468.9	0.07	98.34
141.0-141.5	133.2	4.6	6473.5	0.07	98.41
141.5-142.0	131.3	4.5	6477.9	0.07	98.47
142.0-142.5	129.6	4.3	6482.3	0.07	98.54
142.5-143.0	128.0	4.2	6486.5	0.06	98.60
143.0-143.5	126.4	4.1	6490.7	0.06	98.67
143.5-144.0	124.9	4.0	6494.7	0.06	98.73

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	123.5	4.0	6498.7	0.06	98.79
144.5-145.0	122.0	3.9	6502.5	0.06	98.85
145.0-145.5	120.5	3.8	6506.3	0.06	98.91
145.5-146.0	118.8	3.7	6510.0	0.06	98.96
146.0-146.5	116.8	3.6	6513.5	0.05	99.02
146.5-147.0	114.5	3.4	6517.0	0.05	99.07
147.0-147.5	112.1	3.3	6520.3	0.05	99.12
147.5-148.0	109.8	3.2	6523.5	0.05	99.17
148.0-148.5	107.4	3.1	6526.6	0.05	99.21
148.5-149.0	104.8	3.0	6529.6	0.05	99.26
149.0-149.5	102.3	2.9	6532.4	0.04	99.30
149.5-150.0	99.7	2.8	6535.2	0.04	99.34
150.0-150.5	97.2	2.6	6537.8	0.04	99.39
150.5-151.0	94.5	2.5	6540.4	0.04	99.42
151.0-151.5	91.5	2.4	6542.8	0.04	99.46
151.5-152.0	88.6	2.3	6545.1	0.03	99.50
152.0-152.5	86.0	2.2	6547.3	0.03	99.53
152.5-153.0	83.5	2.1	6549.4	0.03	99.56
153.0-153.5	81.0	2.0	6551.4	0.03	99.59
153.5-154.0	78.7	1.9	6553.3	0.03	99.62
154.0-154.5	76.5	1.8	6555.1	0.03	99.65
154.5-155.0	74.1	1.7	6556.8	0.03	99.67
155.0-155.5	71.8	1.6	6558.5	0.03	99.70
155.5-156.0	69.7	1.6	6560.1	0.02	99.72
156.0-156.5	67.4	1.5	6561.6	0.02	99.75
156.5-157.0	64.8	1.4	6563.0	0.02	99.77
157.0-157.5	62.0	1.3	6564.3	0.02	99.79
157.5-158.0	58.9	1.2	6565.5	0.02	99.81
158.0-158.5	56.2	1.1	6566.6	0.02	99.82
158.5-159.0	53.9	1.1	6567.7	0.02	99.84
159.0-159.5	51.6	1.0	6568.7	0.02	99.85
159.5-160.0	49.4	0.9	6569.6	0.01	99.87
160.0-160.5	47.4	0.9	6570.5	0.01	99.88
160.5-161.0	45.1	0.8	6571.3	0.01	99.89
161.0-161.5	42.7	0.8	6572.1	0.01	99.91
161.5-162.0	40.3	0.7	6572.8	0.01	99.92

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	38.1	0.6	6573.4	0.01	99.93
162.5-163.0	36.2	0.6	6574.0	0.01	99.93
163.0-163.5	34.1	0.5	6574.5	0.01	99.94
163.5-164.0	31.8	0.5	6575.0	0.01	99.95
164.0-164.5	29.6	0.4	6575.5	0.01	99.96
164.5-165.0	27.3	0.4	6575.9	0.01	99.96
165.0-165.5	24.8	0.3	6576.2	0.01	99.97
165.5-166.0	22.3	0.3	6576.5	0.00	99.97
166.0-166.5	20.1	0.3	6576.8	0.00	99.98
166.5-167.0	18.0	0.2	6577.0	0.00	99.98
167.0-167.5	15.9	0.2	6577.2	0.00	99.98
167.5-168.0	14.0	0.2	6577.4	0.00	99.99
168.0-168.5	12.5	0.1	6577.5	0.00	99.99
168.5-169.0	11.2	0.1	6577.6	0.00	99.99
169.0-169.5	9.9	0.1	6577.7	0.00	99.99
169.5-170.0	8.8	0.1	6577.8	0.00	99.99
170.0-170.5	7.8	0.1	6577.9	0.00	99.99
170.5-171.0	6.7	0.1	6577.9	0.00	99.99
171.0-171.5	5.9	0.0	6578.0	0.00	100.00
171.5-172.0	5.3	0.0	6578.0	0.00	100.00
172.0-172.5	4.8	0.0	6578.1	0.00	100.00
172.5-173.0	4.7	0.0	6578.1	0.00	100.00
173.0-173.5	4.7	0.0	6578.1	0.00	100.00
173.5-174.0	4.6	0.0	6578.2	0.00	100.00
174.0-174.5	4.5	0.0	6578.2	0.00	100.00
174.5-175.0	4.5	0.0	6578.2	0.00	100.00
175.0-175.5	4.2	0.0	6578.2	0.00	100.00
175.5-176.0	4.2	0.0	6578.2	0.00	100.00
176.0-176.5	4.3	0.0	6578.3	0.00	100.00
176.5-177.0	4.2	0.0	6578.3	0.00	100.00
177.0-177.5	4.1	0.0	6578.3	0.00	100.00
177.5-178.0	4.2	0.0	6578.3	0.00	100.00
178.0-178.5	4.2	0.0	6578.3	0.00	100.00
178.5-179.0	4.2	0.0	6578.3	0.00	100.00
179.0-179.5	4.3	0.0	6578.3	0.00	100.00
179.5-180.0	4.3	0.0	6578.3	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	1144.9	1194.2	1197.2	1151.6	1144.9	1194.2	1197.2	1151.6	1144.9	
G0.5	1187.6	1216.1	1197.7	1115.9	1095.5	1170.4	1200.3	1179.6	1187.6	
G1.0	1221.3	1232.8	1199.7	1077.4	1044.9	1142.9	1209.2	1206.6	1221.3	
G1.5	1243.2	1250.2	1200.9	1038.8	1010.8	1110.9	1211.8	1227.6	1243.2	
G2.0	1264.4	1269.9	1197.9	1006.0	995.0	1076.0	1215.7	1247.9	1264.4	
G2.5	1284.3	1282.7	1196.2	992.3	988.1	1044.1	1211.9	1267.7	1284.3	
G3.0	1294.9	1292.5	1191.4	985.0	966.3	1021.7	1207.2	1286.1	1294.9	
G3.5	1296.8	1290.9	1187.2	977.5	937.3	1004.0	1208.0	1298.4	1296.8	
G4.0	1320.0	1296.6	1184.8	958.4	901.7	999.6	1203.7	1297.9	1320.0	
G4.5	1353.8	1304.1	1180.4	936.8	869.0	989.5	1205.1	1303.2	1353.8	
G5.0	1383.5	1323.9	1174.7	909.2	843.0	969.5	1200.0	1315.3	1383.5	
G5.5	1419.5	1341.4	1167.8	879.5	822.3	948.2	1196.7	1333.8	1419.5	
G6.0	1453.9	1359.8	1160.1	854.9	791.6	925.8	1191.1	1359.8	1453.9	
G6.5	1487.8	1383.3	1150.5	831.5	759.6	900.8	1188.0	1384.0	1487.8	
G7.0	1524.6	1403.2	1139.8	818.5	737.5	872.7	1178.6	1406.3	1524.6	
G7.5	1554.8	1430.6	1132.0	800.3	723.2	850.7	1171.7	1428.6	1554.8	
G8.0	1588.3	1448.9	1123.6	775.0	698.4	833.9	1170.8	1452.2	1588.3	
G8.5	1616.8	1465.4	1110.9	751.2	669.4	821.0	1166.8	1473.9	1616.8	
G9.0	1641.1	1485.1	1101.7	731.2	647.4	800.4	1164.9	1496.1	1641.1	
G9.5	1661.3	1495.7	1088.6	717.8	631.9	774.9	1156.6	1513.8	1661.3	
G10.0	1679.3	1512.7	1084.5	704.2	607.1	754.9	1149.1	1536.3	1679.3	
G10.5	1708.9	1530.3	1085.9	678.6	585.3	738.4	1139.4	1552.0	1708.9	
G11.0	1730.4	1531.8	1080.5	651.7	568.4	726.8	1136.1	1567.5	1730.4	
G11.5	1737.7	1539.8	1072.4	629.9	556.0	710.1	1134.5	1581.4	1737.7	
G12.0	1746.2	1540.0	1061.9	615.4	543.0	689.2	1132.7	1591.1	1746.2	
G12.5	1749.5	1545.3	1055.3	599.8	528.7	665.7	1128.4	1609.9	1749.5	
G13.0	1751.2	1554.9	1047.4	577.4	519.8	648.3	1116.8	1622.2	1751.2	
G13.5	1744.8	1573.6	1045.4	560.0	510.1	635.7	1108.6	1643.0	1744.8	
G14.0	1743.1	1593.9	1039.6	545.8	501.5	617.1	1098.8	1664.1	1743.1	
G14.5	1746.5	1614.9	1026.1	534.8	493.6	596.5	1091.0	1672.9	1746.5	
G15.0	1756.8	1638.0	1011.3	521.8	483.7	576.8	1086.8	1676.4	1756.8	
G15.5	1779.5	1637.1	996.8	511.5	475.4	563.6	1077.3	1672.9	1779.5	
G16.0	1802.0	1632.1	991.9	501.8	466.1	549.8	1069.9	1663.2	1802.0	
G16.5	1838.0	1624.8	986.7	492.7	458.2	538.2	1061.2	1648.0	1838.0	
G17.0	1874.1	1610.4	978.7	485.5	447.9	524.8	1059.1	1640.3	1874.1	
G17.5	1902.8	1604.8	972.3	476.3	440.9	513.4	1051.6	1636.5	1902.8	
G18.0	1923.6	1601.1	968.4	470.6	430.1	504.9	1049.0	1631.6	1923.6	

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	1927.8	1602.0	970.3	462.4	420.6	493.6	1042.8	1634.2	1927.8	
G19.0	1931.9	1594.2	966.6	455.1	411.0	486.7	1037.6	1630.3	1931.9	
G19.5	1917.9	1585.3	964.4	449.0	398.7	477.3	1031.9	1636.3	1917.9	
G20.0	1896.9	1575.0	959.5	441.7	387.0	471.1	1021.5	1641.5	1896.9	
G20.5	1874.8	1562.7	952.8	435.3	376.0	464.0	1016.6	1654.8	1874.8	
G21.0	1857.9	1560.8	950.5	426.9	368.0	457.5	1011.3	1667.9	1857.9	
G21.5	1863.2	1558.7	947.2	418.8	359.8	450.9	1009.9	1679.5	1863.2	
G22.0	1880.3	1565.8	948.5	412.1	352.1	444.5	1005.0	1700.6	1880.3	
G22.5	1911.5	1571.3	946.9	404.6	342.3	438.6	1003.2	1714.6	1911.5	
G23.0	1946.2	1584.0	945.2	396.7	334.9	431.7	999.4	1727.6	1946.2	
G23.5	1983.9	1597.0	940.8	388.0	327.0	426.0	988.3	1733.5	1983.9	
G24.0	2008.2	1617.5	941.4	380.2	318.7	421.1	979.8	1735.5	2008.2	
G24.5	2021.8	1640.6	938.7	371.3	310.4	414.8	972.6	1739.2	2021.8	
G25.0	2013.7	1663.0	933.7	362.9	303.7	409.9	972.5	1731.3	2013.7	
G25.5	1993.2	1685.1	928.5	354.8	295.5	404.4	971.8	1719.4	1993.2	
G26.0	1977.0	1693.3	919.8	347.5	289.1	396.0	967.4	1699.2	1977.0	
G26.5	1959.5	1699.2	915.4	342.3	281.8	389.9	966.0	1687.3	1959.5	
G27.0	1953.3	1695.1	909.8	336.8	276.5	382.5	958.3	1672.2	1953.3	
G27.5	1948.1	1682.4	900.8	332.0	270.0	376.1	956.9	1662.7	1948.1	
G28.0	1956.6	1672.8	890.1	327.2	264.6	367.0	951.8	1657.0	1956.6	
G28.5	1962.7	1657.3	883.7	322.3	259.7	359.7	948.7	1652.7	1962.7	
G29.0	1967.4	1641.2	876.6	317.8	255.1	352.0	947.8	1662.5	1967.4	
G29.5	1973.3	1617.8	866.3	311.7	251.0	346.2	948.6	1669.6	1973.3	
G30.0	1979.5	1600.0	859.6	305.8	245.4	341.4	949.0	1684.2	1979.5	
G30.5	1988.7	1586.1	850.3	300.9	241.1	334.1	939.8	1699.6	1988.7	
G31.0	1998.2	1578.5	846.3	296.5	236.2	328.0	936.2	1711.9	1998.2	
G31.5	2010.6	1575.5	843.9	291.4	231.6	321.1	927.8	1723.1	2010.6	
G32.0	2018.8	1578.2	840.9	286.5	226.0	317.1	918.9	1728.9	2018.8	
G32.5	2025.9	1585.8	837.3	282.0	222.1	310.1	915.4	1737.6	2025.9	
G33.0	2022.4	1594.6	832.4	278.4	218.4	305.6	908.2	1741.7	2022.4	
G33.5	2014.2	1612.9	824.7	273.3	214.5	299.9	905.5	1743.0	2014.2	
G34.0	2013.0	1627.6	816.2	269.6	210.3	294.9	900.2	1743.8	2013.0	
G34.5	2010.3	1648.5	815.7	265.3	205.8	289.7	892.3	1735.8	2010.3	
G35.0	2016.5	1668.3	816.6	260.8	202.2	284.5	880.3	1736.3	2016.5	
G35.5	2020.2	1688.0	815.9	257.2	198.4	280.8	872.1	1724.3	2020.2	
G36.0	2034.2	1704.6	808.1	252.6	194.2	275.7	866.3	1711.9	2034.2	
G36.5	2051.0	1713.2	800.1	248.7	190.9	272.4	861.0	1696.1	2051.0	

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 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	2064.7	1720.5	792.0	244.1	187.7	267.1	857.0	1687.4	2064.7	
G37.5	2087.0	1716.5	784.8	240.7	184.7	263.8	849.5	1679.6	2087.0	
G38.0	2109.1	1716.1	778.0	236.3	181.4	259.9	845.7	1675.7	2109.1	
G38.5	2117.6	1704.3	767.5	231.9	178.1	256.2	838.4	1678.5	2117.6	
G39.0	2116.6	1693.7	757.1	227.5	174.9	252.6	834.7	1678.4	2116.6	
G39.5	2123.1	1672.1	747.8	224.0	171.3	249.1	826.6	1681.2	2123.1	
G40.0	2126.9	1654.6	744.0	219.8	168.3	245.4	821.6	1674.4	2126.9	
G40.5	2144.6	1633.8	736.3	216.5	165.3	241.4	816.7	1671.9	2144.6	
G41.0	2152.8	1616.6	730.1	213.1	162.3	237.7	810.2	1665.4	2152.8	
G41.5	2152.3	1601.2	723.6	209.4	158.9	234.1	801.2	1671.2	2152.3	
G42.0	2144.3	1591.8	717.9	206.0	156.2	229.5	792.5	1672.8	2144.3	
G42.5	2143.2	1587.3	708.2	202.3	153.3	225.6	787.5	1679.4	2143.2	
G43.0	2141.4	1586.0	698.4	199.0	150.3	222.3	780.6	1687.6	2141.4	
G43.5	2151.0	1590.6	687.5	194.9	147.6	217.9	775.5	1696.3	2151.0	
G44.0	2172.1	1587.5	681.0	191.8	144.2	214.4	770.3	1707.7	2172.1	
G44.5	2197.1	1594.0	674.0	187.4	141.1	211.0	765.1	1714.1	2197.1	
G45.0	2216.8	1596.7	665.7	184.1	138.0	206.9	754.9	1729.3	2216.8	
G45.5	2228.7	1607.1	659.0	179.9	135.1	202.9	747.7	1741.1	2228.7	
G46.0	2255.2	1617.2	652.8	176.5	131.1	199.4	740.6	1756.6	2255.2	
G46.5	2281.3	1638.6	646.0	172.3	129.1	194.8	732.8	1765.3	2281.3	
G47.0	2311.8	1658.6	638.2	168.5	126.6	190.7	727.1	1770.4	2311.8	
G47.5	2335.6	1681.5	630.1	164.6	125.9	186.9	716.4	1776.4	2335.6	
G48.0	2368.9	1699.3	619.7	160.6	122.7	182.7	709.8	1786.8	2368.9	
G48.5	2386.7	1722.4	613.7	156.7	119.1	178.5	700.2	1797.6	2386.7	
G49.0	2414.9	1731.1	604.4	152.9	115.8	174.0	687.6	1800.0	2414.9	
G49.5	2429.4	1740.7	595.0	149.4	111.7	169.4	677.8	1807.0	2429.4	
G50.0	2442.6	1743.9	585.9	145.2	106.3	165.2	668.6	1801.8	2442.6	
G50.5	2444.6	1749.2	579.4	141.3	98.9	161.4	664.7	1793.9	2444.6	
G51.0	2448.9	1747.2	570.0	137.8	94.8	156.7	655.2	1783.1	2448.9	
G51.5	2438.0	1753.4	561.8	133.9	88.4	152.8	644.1	1765.6	2438.0	
G52.0	2438.1	1750.8	552.0	130.1	83.6	148.4	635.3	1752.1	2438.1	
G52.5	2433.7	1753.7	544.9	126.0	77.9	144.4	624.5	1734.5	2433.7	
G53.0	2452.2	1746.2	535.1	122.1	72.3	139.8	615.1	1721.4	2452.2	
G53.5	2452.8	1734.9	525.8	118.1	67.5	136.2	606.9	1708.3	2452.8	
G54.0	2451.5	1720.0	515.4	114.4	60.7	131.7	596.8	1697.7	2451.5	
G54.5	2443.9	1704.2	506.1	110.7	55.0	127.4	587.3	1690.9	2443.9	
G55.0	2453.6	1682.2	495.4	106.9	47.4	123.8	580.5	1688.3	2453.6	

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	2464.1	1660.7	487.2	102.7	41.7	119.0	567.4	1687.3	2464.1	
G56.0	2481.2	1634.3	477.5	96.9	33.5	115.3	557.6	1691.1	2481.2	
G56.5	2480.0	1617.6	466.6	90.1	23.9	111.0	547.9	1702.4	2480.0	
G57.0	2474.4	1599.4	455.9	84.6	14.3	107.4	537.2	1709.5	2474.4	
G57.5	2442.9	1593.9	447.0	76.8	2.5	103.3	529.0	1727.4	2442.9	
G58.0	2418.4	1592.9	436.1	70.8	2.4	99.6	520.0	1741.1	2418.4	
G58.5	2396.1	1606.4	427.4	64.2	2.4	96.1	509.7	1758.9	2396.1	
G59.0	2397.6	1619.1	417.3	58.2	2.5	89.6	497.6	1778.9	2397.6	
G59.5	2403.3	1633.7	407.6	51.3	2.5	83.3	488.3	1796.2	2403.3	
G60.0	2431.6	1644.4	397.0	45.1	2.6	76.7	478.1	1805.3	2431.6	
G60.5	2452.7	1659.4	387.4	38.0	2.6	70.7	469.0	1788.9	2452.7	
G61.0	2478.0	1664.7	378.1	32.5	2.5	63.1	461.7	1768.3	2478.0	
G61.5	2491.2	1671.6	368.0	27.4	2.7	57.4	451.6	1750.6	2491.2	
G62.0	2504.3	1674.7	357.0	21.3	2.5	50.4	441.0	1743.0	2504.3	
G62.5	2492.5	1669.9	348.5	15.6	2.7	44.5	432.6	1744.3	2492.5	
G63.0	2482.2	1666.5	338.8	7.2	2.7	38.0	423.3	1747.2	2482.2	
G63.5	2460.6	1668.3	328.6	1.2	2.9	31.2	413.3	1754.8	2460.6	
G64.0	2449.2	1682.5	318.7	0.9	3.0	25.6	404.0	1761.6	2449.2	
G64.5	2446.3	1691.9	309.0	2.2	2.8	19.4	396.5	1773.2	2446.3	
G65.0	2464.2	1695.8	299.1	2.3	3.5	13.7	386.1	1777.8	2464.2	
G65.5	2496.7	1683.9	289.4	2.3	3.2	7.9	377.4	1783.5	2496.7	
G66.0	2537.3	1673.7	279.1	0.5	3.2	6.7	367.3	1779.8	2537.3	
G66.5	2573.4	1654.6	270.6	0.8	3.2	6.8	359.3	1778.2	2573.4	
G67.0	2593.3	1648.9	261.1	0.8	1.7	6.8	347.5	1780.6	2593.3	
G67.5	2586.0	1643.8	253.6	2.3	1.8	6.7	339.5	1785.9	2586.0	
G68.0	2550.7	1649.1	245.4	2.5	1.6	6.7	330.2	1808.9	2550.7	
G68.5	2513.6	1652.2	238.4	2.6	3.5	6.2	319.0	1839.3	2513.6	
G69.0	2468.3	1673.2	231.9	2.9	3.5	6.7	308.3	1861.7	2468.3	
G69.5	2441.2	1703.0	225.4	2.8	3.5	6.7	297.7	1861.5	2441.2	
G70.0	2426.6	1731.2	218.5	2.8	2.1	6.7	286.2	1841.1	2426.6	
G70.5	2444.2	1723.1	212.8	2.9	2.2	6.7	276.1	1815.4	2444.2	
G71.0	2483.7	1686.9	207.5	2.9	2.2	6.7	264.6	1772.6	2483.7	
G71.5	2534.2	1638.4	201.6	2.9	2.3	7.1	253.1	1724.2	2534.2	
G72.0	2557.2	1578.5	196.8	2.9	2.4	7.6	241.9	1672.0	2557.2	
G72.5	2546.3	1536.9	191.4	2.4	2.5	7.3	233.3	1634.4	2546.3	
G73.0	2486.7	1519.2	186.9	3.1	2.5	7.8	224.9	1615.6	2486.7	
G73.5	2429.6	1517.6	182.0	3.1	2.5	8.0	216.6	1607.3	2429.6	

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	2388.9	1520.5	177.6	2.9	2.7	8.3	210.0	1625.4	2388.9	
G74.5	2379.9	1524.0	172.9	3.2	2.7	8.4	202.5	1642.1	2379.9	
G75.0	2397.8	1516.9	169.1	3.2	2.8	8.9	196.6	1651.1	2397.8	
G75.5	2419.5	1504.9	164.5	3.2	2.9	9.3	190.8	1648.7	2419.5	
G76.0	2435.6	1477.2	160.6	3.4	2.9	9.2	184.7	1624.3	2435.6	
G76.5	2418.7	1456.8	156.5	3.4	2.9	9.5	179.7	1600.8	2418.7	
G77.0	2376.7	1437.5	152.9	3.6	3.0	9.8	173.7	1573.0	2376.7	
G77.5	2302.1	1418.6	149.7	3.6	3.1	9.8	168.3	1545.9	2302.1	
G78.0	2227.4	1389.5	146.1	3.6	3.2	10.1	163.5	1523.0	2227.4	
G78.5	2143.6	1352.6	142.9	3.6	3.2	10.4	158.8	1497.8	2143.6	
G79.0	2088.3	1310.4	139.5	4.1	3.3	10.4	154.6	1470.6	2088.3	
G79.5	2063.5	1274.5	136.6	3.7	3.4	10.7	149.9	1434.9	2063.5	
G80.0	2052.3	1253.0	133.8	3.8	3.4	10.7	145.5	1410.5	2052.3	
G80.5	2054.2	1243.4	130.5	3.7	3.3	10.9	141.1	1389.7	2054.2	
G81.0	2058.9	1245.2	127.1	4.0	3.5	11.1	136.7	1379.8	2058.9	
G81.5	2059.1	1243.7	125.1	4.0	3.6	11.1	132.2	1375.0	2059.1	
G82.0	2035.9	1240.0	122.0	3.8	3.5	11.3	128.6	1363.6	2035.9	
G82.5	2019.0	1220.3	119.2	4.1	3.7	11.7	125.1	1351.2	2019.0	
G83.0	2005.6	1194.5	116.4	4.2	3.8	11.5	121.4	1337.6	2005.6	
G83.5	1995.5	1181.4	113.9	4.2	3.7	11.7	118.1	1318.5	1995.5	
G84.0	1985.0	1171.0	111.0	2.6	4.0	11.5	114.9	1296.1	1985.0	
G84.5	1975.5	1166.7	108.8	2.7	4.1	11.8	111.7	1275.4	1975.5	
G85.0	1972.4	1159.2	106.5	2.8	4.2	11.9	108.9	1252.6	1972.4	
G85.5	1956.9	1146.7	104.8	4.4	4.3	11.9	105.4	1238.7	1956.9	
G86.0	1936.7	1134.1	102.8	4.6	4.3	12.1	103.0	1226.3	1936.7	
G86.5	1914.5	1117.1	101.5	4.6	4.5	12.2	100.4	1216.3	1914.5	
G87.0	1914.7	1087.6	100.3	4.7	4.6	12.3	98.5	1197.9	1914.7	
G87.5	1918.8	1044.7	98.9	4.7	4.6	12.4	96.5	1180.4	1918.8	
G88.0	1916.5	1014.6	98.3	4.8	4.7	12.4	94.4	1157.6	1916.5	
G88.5	1918.2	990.1	97.0	4.6	4.8	12.4	92.6	1134.7	1918.2	
G89.0	1904.6	977.5	96.6	4.9	4.9	12.1	91.5	1102.2	1904.6	
G89.5	1871.3	969.4	96.3	4.9	4.7	12.4	90.7	1075.1	1871.3	
G90.0	1831.8	950.9	95.7	4.8	5.0	12.4	89.8	1054.7	1831.8	
G90.5	1787.4	926.0	95.9	5.1	5.1	12.9	89.6	1039.0	1787.4	
G91.0	1737.1	897.6	95.2	5.2	5.2	12.4	89.1	1023.7	1737.1	
G91.5	1671.9	879.1	95.3	5.3	5.3	12.3	88.7	1004.3	1671.9	
G92.0	1622.5	863.9	94.9	5.3	5.3	12.0	88.4	986.0	1622.5	

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 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	1580.7	842.5	94.4	5.4	5.5	12.3	88.6	960.6	1580.7	
G93.0	1543.1	815.0	94.0	5.4	5.5	12.4	88.6	943.0	1543.1	
G93.5	1512.5	790.9	94.0	5.5	5.6	11.8	88.8	925.8	1512.5	
G94.0	1471.6	781.4	93.7	5.6	5.8	11.9	89.2	906.8	1471.6	
G94.5	1431.8	774.2	93.6	5.6	5.8	11.8	89.4	884.2	1431.8	
G95.0	1385.3	762.4	93.4	5.5	5.8	11.7	89.7	868.3	1385.3	
G95.5	1367.3	746.1	93.0	5.8	6.0	11.2	89.6	848.6	1367.3	
G96.0	1363.9	735.8	92.7	5.8	6.0	11.5	90.0	833.2	1363.9	
G96.5	1359.4	721.9	92.5	5.6	6.1	11.5	90.1	809.7	1359.4	
G97.0	1339.8	692.7	92.2	5.9	6.1	11.4	90.3	787.1	1339.8	
G97.5	1286.0	665.1	92.0	5.9	7.7	11.6	90.1	764.3	1286.0	
G98.0	1216.8	639.8	91.9	6.0	7.8	11.2	90.2	744.2	1216.8	
G98.5	1162.8	622.4	91.4	6.2	7.9	11.1	90.1	720.5	1162.8	
G99.0	1122.6	611.1	91.4	6.1	8.1	11.2	90.3	704.6	1122.6	
G99.5	1084.4	596.5	90.8	6.2	8.1	11.0	90.5	684.5	1084.4	
G100.0	1041.8	581.6	90.7	6.3	8.2	10.8	90.6	665.6	1041.8	
G100.5	1011.2	564.9	90.2	6.3	8.1	10.9	90.6	647.9	1011.2	
G101.0	989.3	547.3	90.7	6.3	8.4	10.9	92.3	632.0	989.3	
G101.5	964.2	535.3	89.8	6.3	8.5	10.7	92.1	615.8	964.2	
G102.0	935.9	528.3	89.1	6.7	8.4	10.9	92.3	607.5	935.9	
G102.5	901.7	522.8	88.7	6.6	8.6	10.8	91.9	594.1	901.7	
G103.0	872.1	513.9	88.2	6.4	8.7	10.5	91.8	580.8	872.1	
G103.5	838.7	503.5	87.9	6.7	8.8	10.7	91.1	562.2	838.7	
G104.0	797.7	493.5	87.4	6.7	8.8	10.4	91.2	545.8	797.7	
G104.5	762.9	481.1	86.9	6.8	8.9	10.6	90.8	533.7	762.9	
G105.0	733.3	469.9	86.6	6.9	8.7	10.5	90.5	525.3	733.3	
G105.5	711.2	461.8	86.1	6.9	8.8	10.5	90.1	519.4	711.2	
G106.0	692.8	459.2	85.4	6.9	9.1	10.3	88.2	513.7	692.8	
G106.5	674.0	454.6	85.0	7.0	9.2	9.9	88.0	506.7	674.0	
G107.0	653.3	447.0	84.4	7.1	9.3	10.3	87.4	495.6	653.3	
G107.5	631.6	439.8	83.8	7.2	9.3	10.1	86.9	484.2	631.6	
G108.0	621.0	434.0	83.4	6.9	9.4	9.9	86.3	475.1	621.0	
G108.5	613.4	427.7	82.6	7.3	9.3	10.1	85.9	468.4	613.4	
G109.0	606.9	420.7	82.2	7.3	9.5	10.1	86.4	462.5	606.9	
G109.5	600.3	415.0	81.4	7.1	9.5	9.8	86.2	458.8	600.3	
G110.0	592.1	409.6	80.9	7.4	9.3	9.6	85.4	449.6	592.1	
G110.5	588.2	405.7	80.3	7.4	9.6	9.9	83.4	444.3	588.2	

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 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	586.1	398.8	79.9	7.4	9.5	10.0	82.5	437.9	586.1	
G111.5	582.3	393.2	79.1	7.2	9.5	9.8	81.9	432.8	582.3	
G112.0	578.5	387.8	78.6	7.6	9.7	10.0	82.7	429.0	578.5	
G112.5	576.8	384.8	77.9	7.3	9.8	9.3	82.0	424.6	576.8	
G113.0	578.2	380.3	77.0	7.6	9.9	9.8	81.0	418.5	578.2	
G113.5	576.4	375.7	76.4	7.7	9.9	9.6	80.4	416.5	576.4	
G114.0	579.2	372.8	75.8	7.7	9.9	9.8	79.8	411.1	579.2	
G114.5	583.8	369.0	74.8	7.7	9.9	9.6	78.8	410.2	583.8	
G115.0	592.5	365.2	74.2	7.8	9.9	9.5	77.6	405.7	592.5	
G115.5	600.8	361.5	73.4	7.9	10.0	9.4	76.9	402.7	600.8	
G116.0	601.6	357.5	72.7	7.8	10.0	9.2	76.1	399.1	601.6	
G116.5	598.9	354.2	72.1	7.9	9.9	9.3	75.3	397.0	598.9	
G117.0	595.8	350.9	71.0	8.1	10.1	9.2	72.8	393.5	595.8	
G117.5	593.7	349.3	70.5	8.0	10.2	9.1	72.0	393.8	593.7	
G118.0	597.8	345.4	69.5	8.1	9.9	9.2	71.0	391.3	597.8	
G118.5	601.7	342.3	68.8	7.7	10.1	9.1	71.6	389.9	601.7	
G119.0	606.9	339.7	67.8	8.1	10.0	9.0	70.6	386.9	606.9	
G119.5	611.8	336.7	67.0	8.2	10.0	7.4	69.7	383.9	611.8	
G120.0	609.6	334.7	67.1	8.2	10.1	7.3	68.6	380.9	609.6	
G120.5	607.7	332.6	65.5	8.2	10.1	7.1	67.6	378.7	607.7	
G121.0	603.7	330.1	64.7	8.1	10.3	8.7	66.6	376.4	603.7	
G121.5	604.3	328.8	63.6	8.2	10.3	8.6	65.8	375.1	604.3	
G122.0	605.5	326.4	63.0	8.3	10.3	8.5	64.7	374.2	605.5	
G122.5	608.0	325.5	62.0	8.2	10.3	8.4	63.8	372.5	608.0	
G123.0	608.2	323.5	61.1	8.4	10.3	8.4	62.6	372.6	608.2	
G123.5	607.6	322.4	60.0	8.4	10.3	8.2	61.9	371.9	607.6	
G124.0	607.8	320.8	59.4	8.2	10.4	6.6	60.8	371.3	607.8	
G124.5	604.1	320.1	58.4	8.5	10.4	6.5	59.7	370.0	604.1	
G125.0	601.0	318.4	56.1	8.4	10.4	6.4	57.5	369.9	601.0	
G125.5	599.0	316.4	55.2	8.4	10.5	6.5	56.4	368.0	599.0	
G126.0	594.8	315.2	54.3	8.4	10.3	6.4	55.4	366.4	594.8	
G126.5	592.0	313.4	54.9	8.5	8.8	6.3	55.7	363.1	592.0	
G127.0	586.8	311.3	54.0	8.6	8.8	6.4	55.5	361.2	586.8	
G127.5	578.2	309.9	53.2	8.4	8.6	6.4	54.1	358.4	578.2	
G128.0	570.7	307.9	52.2	8.5	8.7	6.4	53.4	357.3	570.7	
G128.5	565.9	306.6	52.0	8.5	8.8	6.5	52.3	355.3	565.9	
G129.0	564.8	305.7	50.3	8.8	8.6	6.5	51.5	354.2	564.8	

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	564.7	303.2	49.6	8.5	10.4	6.4	48.9	352.4	564.7	
G130.0	567.9	302.2	48.4	8.6	10.5	6.5	48.0	351.7	567.9	
G130.5	567.9	299.7	47.7	8.6	10.2	6.6	47.0	351.3	567.9	
G131.0	567.7	299.5	47.5	8.7	10.4	6.5	46.0	350.1	567.7	
G131.5	566.6	297.0	45.9	8.6	10.4	6.6	45.1	349.3	566.6	
G132.0	560.1	296.8	43.6	8.6	10.3	6.6	44.2	348.7	560.1	
G132.5	554.2	295.8	42.7	8.4	10.4	6.7	43.1	347.1	554.2	
G133.0	543.3	294.9	41.8	8.6	10.3	6.6	42.3	345.6	543.3	
G133.5	534.2	294.1	41.0	8.6	10.2	6.6	41.2	343.2	534.2	
G134.0	525.1	292.2	40.1	8.4	8.7	6.6	40.3	341.3	525.1	
G134.5	519.5	291.0	39.2	8.6	8.6	6.6	39.3	338.3	519.5	
G135.0	517.4	287.9	38.2	8.7	8.7	6.6	38.3	336.5	517.4	
G135.5	517.4	286.4	37.6	8.7	10.2	6.7	37.3	333.3	517.4	
G136.0	521.8	283.1	36.7	8.7	10.3	6.6	36.4	333.7	521.8	
G136.5	522.8	281.7	35.7	8.5	10.3	6.6	35.5	331.4	522.8	
G137.0	521.9	279.8	35.0	8.6	10.3	6.6	34.4	331.3	521.9	
G137.5	514.8	278.2	34.1	8.6	10.3	6.5	33.5	328.0	514.8	
G138.0	501.2	275.9	33.1	8.5	10.1	6.6	32.6	326.4	501.2	
G138.5	487.9	273.5	32.5	8.5	10.0	6.6	31.5	321.2	487.9	
G139.0	473.3	270.6	31.7	8.5	8.5	6.3	30.7	318.1	473.3	
G139.5	461.7	267.4	30.7	8.2	8.5	6.6	29.7	312.4	461.7	
G140.0	451.9	263.3	30.0	8.6	8.2	6.6	28.7	309.5	451.9	
G140.5	444.5	259.9	29.3	8.3	8.5	6.3	27.8	303.3	444.5	
G141.0	439.2	256.1	28.3	8.5	8.4	6.5	27.0	299.3	439.2	
G141.5	434.7	251.9	27.5	8.6	8.2	6.6	25.9	293.9	434.7	
G142.0	431.4	248.2	26.6	8.2	8.4	6.6	25.1	289.4	431.4	
G142.5	427.6	243.7	25.9	8.6	8.4	6.5	24.2	284.3	427.6	
G143.0	425.0	240.6	25.2	8.4	8.1	6.6	23.3	280.9	425.0	
G143.5	421.5	235.8	24.2	8.5	8.4	6.5	22.4	276.8	421.5	
G144.0	418.8	232.8	23.4	8.5	8.4	6.5	21.6	274.3	418.8	
G144.5	416.5	228.4	22.6	8.1	8.1	6.4	20.5	271.0	416.5	
G145.0	411.5	225.7	21.9	8.4	8.2	6.2	20.0	268.3	411.5	
G145.5	407.2	223.1	21.1	8.3	8.2	6.4	19.1	264.8	407.2	
G146.0	399.9	219.4	20.4	8.2	8.1	6.4	18.2	261.5	399.9	
G146.5	393.2	216.7	19.5	8.3	8.2	6.2	17.6	256.4	393.2	
G147.0	384.1	212.1	18.8	8.4	8.1	6.4	16.9	251.6	384.1	
G147.5	376.1	208.7	18.1	8.2	8.0	6.3	15.9	245.9	376.1	

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	368.7	203.0	17.4	8.2	9.6	6.2	15.5	240.9	368.7	
G148.5	359.2	198.9	16.7	8.0	9.4	6.3	14.9	234.9	359.2	
G149.0	352.0	193.6	15.9	8.1	9.5	6.3	13.9	229.7	352.0	
G149.5	344.4	189.1	15.4	7.7	7.9	6.1	13.5	223.8	344.4	
G150.0	336.0	184.1	14.7	8.0	7.8	6.3	12.9	218.3	336.0	
G150.5	327.6	179.0	13.9	8.1	7.9	6.3	12.3	212.3	327.6	
G151.0	318.5	173.3	13.5	8.0	7.7	6.2	11.7	205.2	318.5	
G151.5	310.1	166.4	12.9	8.0	7.7	6.2	11.0	197.9	310.1	
G152.0	300.1	161.4	12.0	8.0	7.7	6.2	10.5	191.8	300.1	
G152.5	293.2	156.3	11.6	8.1	7.6	6.1	9.9	184.7	293.2	
G153.0	285.4	151.8	11.1	8.0	7.5	6.1	9.4	178.5	285.4	
G153.5	279.2	146.6	10.4	7.9	7.5	6.1	8.9	172.0	279.2	
G154.0	272.9	141.7	10.0	7.9	7.5	6.1	8.4	166.1	272.9	
G154.5	266.1	136.4	9.4	7.8	7.4	6.1	7.9	161.5	266.1	
G155.0	259.2	131.6	8.7	7.8	7.3	6.1	7.4	155.6	259.2	
G155.5	253.0	126.1	8.4	7.8	6.9	6.0	7.1	150.6	253.0	
G156.0	245.9	121.4	7.9	7.7	9.1	6.0	6.6	144.6	245.9	
G156.5	237.5	116.9	7.6	7.6	8.9	6.0	6.2	139.1	237.5	
G157.0	227.6	112.5	7.1	7.7	8.5	5.9	5.8	132.7	227.6	
G157.5	215.6	107.5	6.6	7.6	7.0	5.9	5.5	127.7	215.6	
G158.0	202.8	102.6	6.2	7.4	6.9	5.9	5.2	121.9	202.8	
G158.5	192.9	97.6	5.9	7.6	6.8	5.9	6.5	116.9	192.9	
G159.0	186.2	93.2	5.6	7.5	6.9	5.8	6.1	111.4	186.2	
G159.5	178.9	88.1	5.2	7.3	6.8	5.8	5.9	105.8	178.9	
G160.0	171.3	83.9	6.7	7.4	6.7	5.8	5.5	100.2	171.3	
G160.5	165.1	78.9	6.2	7.3	6.7	5.7	5.4	95.2	165.1	
G161.0	156.1	74.0	6.1	7.3	6.6	5.7	5.3	90.4	156.1	
G161.5	147.7	69.8	4.2	7.3	6.6	5.6	5.1	85.0	147.7	
G162.0	139.6	64.9	4.1	7.2	6.5	5.4	4.9	80.1	139.6	
G162.5	133.4	60.4	3.9	7.2	6.4	5.6	4.9	75.3	133.4	
G163.0	126.9	56.3	3.8	7.2	6.4	5.6	4.9	70.4	126.9	
G163.5	119.8	51.1	3.7	6.9	6.3	5.3	4.9	65.2	119.8	
G164.0	113.2	44.7	3.6	7.1	6.2	5.5	4.8	60.6	113.2	
G164.5	105.6	38.8	3.4	6.8	6.2	5.4	6.1	55.9	105.6	
G165.0	99.3	31.7	3.6	6.8	6.1	5.2	5.0	50.5	99.3	
G165.5	92.2	25.8	3.6	6.8	6.1	5.3	5.1	43.3	92.2	
G166.0	87.0	19.5	3.4	6.6	5.9	5.3	5.0	36.5	87.0	

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 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	81.1	14.9	3.6	6.8	6.0	5.2	5.0	30.3	81.1	
G167.0	75.0	11.2	3.6	6.7	5.9	5.2	5.0	22.9	75.0	
G167.5	68.7	7.4	3.4	6.7	5.8	5.2	4.9	16.6	68.7	
G168.0	62.7	4.1	3.6	6.6	5.5	5.1	5.0	11.9	62.7	
G168.5	57.5	4.0	3.7	6.7	5.7	5.1	5.0	8.0	57.5	
G169.0	51.4	3.8	3.5	6.5	5.5	5.0	5.1	3.3	51.4	
G169.5	43.1	4.2	3.7	6.4	5.6	4.9	5.1	1.9	43.1	
G170.0	34.4	4.2	3.7	6.3	5.4	4.9	5.1	2.3	34.4	
G170.5	26.1	4.3	3.5	6.4	5.4	4.9	5.4	2.3	26.1	
G171.0	18.1	4.4	3.7	6.1	5.3	4.7	5.1	2.1	18.1	
G171.5	12.6	4.4	3.7	6.2	5.2	4.8	5.2	2.5	12.6	
G172.0	7.7	4.4	3.7	6.1	5.1	4.7	5.4	2.4	7.7	
G172.5	4.2	4.5	3.7	6.0	5.0	5.9	5.2	2.5	4.2	
G173.0	4.2	4.6	3.7	6.1	5.0	6.1	5.2	2.5	4.2	
G173.5	4.4	4.6	3.7	6.0	4.9	6.1	5.1	2.4	4.4	
G174.0	4.2	4.4	3.7	5.9	4.9	4.5	5.3	2.7	4.2	
G174.5	4.4	4.7	3.7	5.8	4.8	4.4	5.3	2.8	4.4	
G175.0	4.6	4.9	3.7	5.8	4.7	4.4	4.6	2.8	4.6	
G175.5	4.4	3.0	3.7	5.8	4.7	4.3	3.7	2.9	4.4	
G176.0	4.7	3.3	3.7	5.7	4.6	4.2	5.3	3.0	4.7	
G176.5	4.8	3.4	3.8	5.6	4.4	4.2	5.2	3.0	4.8	
G177.0	4.9	3.4	3.7	5.3	4.3	4.2	3.7	3.2	4.9	
G177.5	3.3	3.5	5.4	5.5	4.3	4.1	3.7	2.9	3.3	
G178.0	4.9	3.5	3.7	5.2	4.2	4.1	5.4	3.3	4.9	
G178.5	5.2	3.6	3.7	3.6	3.9	4.0	5.3	3.4	5.2	
G179.0	5.3	3.7	3.7	5.1	4.0	4.0	5.1	3.4	5.3	
G179.5	5.2	3.7	3.7	3.6	4.0	5.5	5.3	3.5	5.2	
G180.0	5.4	3.8	3.7	3.5	3.6	5.4	5.3	3.6	5.4	

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: