

Report No.:

Test Time: 2016-10-14 11:26

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: MSPI-IS45A12S-1100

Lamp Catalog: 3030-5070-Q3DH

Current: 0.370 A

Power Factor: 0.986

Luminaire Description: WP45W27V50KD

Voltage: 120.7 V

Power: 44.02 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 5223.3 lm

Downward Ratio: 80%

Horizontal Diffuse Angle(10%,50%,75%,100%): H216.3,H111.3,H93.3,H65

Vertical Diffuse Angle(10%,50%,75%,100%): V173.2,V105.8,V66.6,V3

Luminaire Efficacy Rating (LER): 118.71

Max. Intensity: 2010.57 cd

S/MH(C0/C180): 1.58

Total Rated Lamp Lumens: 5223.3 lm

Efficiency: 100%

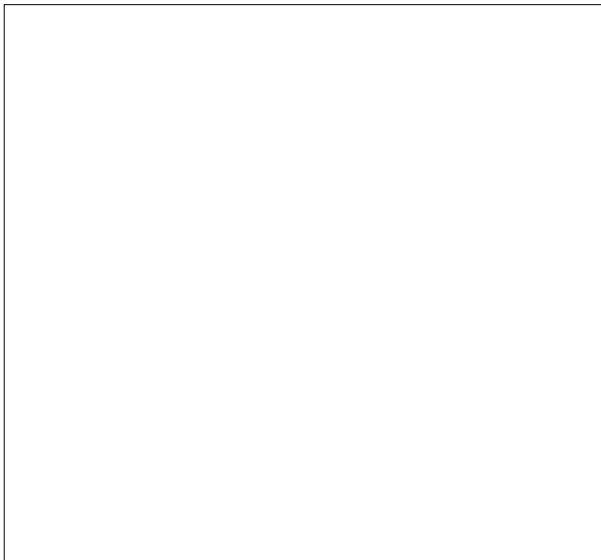
Upward Ratio: 20%

Central Intensity: 851.09 cd

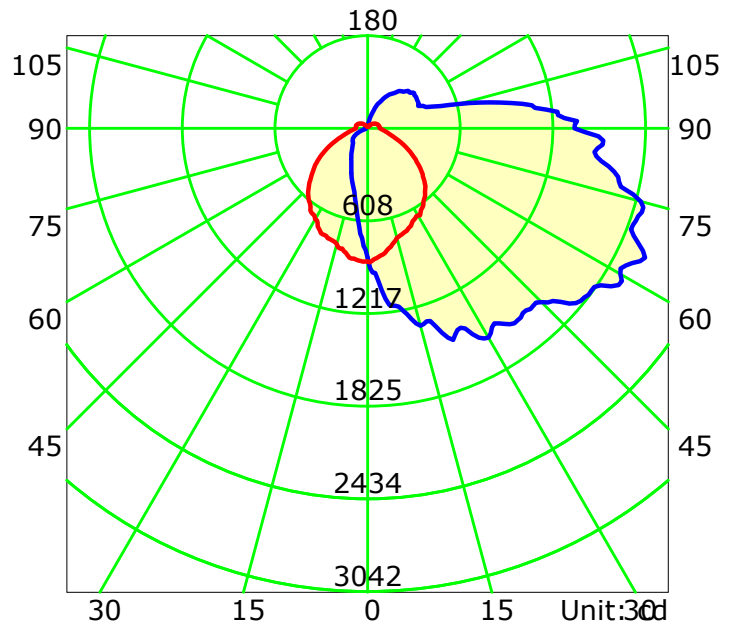
Pos of Max. Intensity: H0 V65

S/MH(C90/C270): 1.16

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 104.5°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

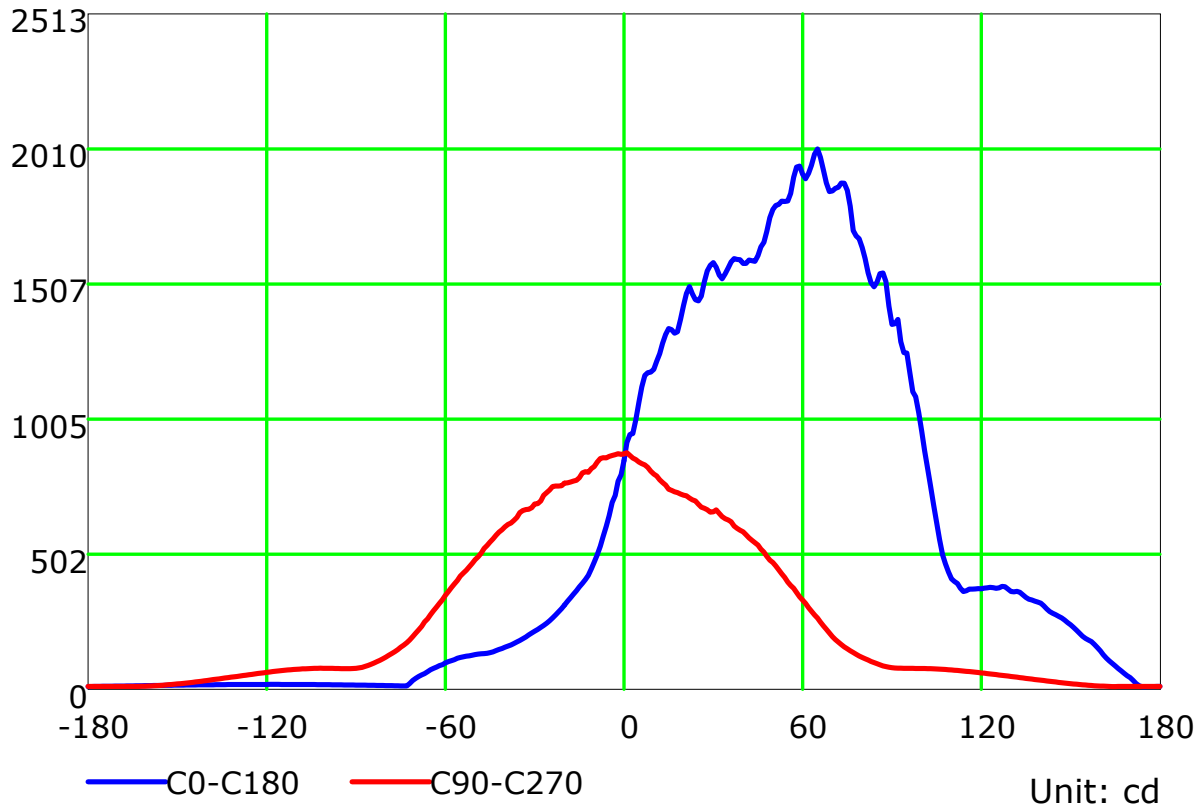
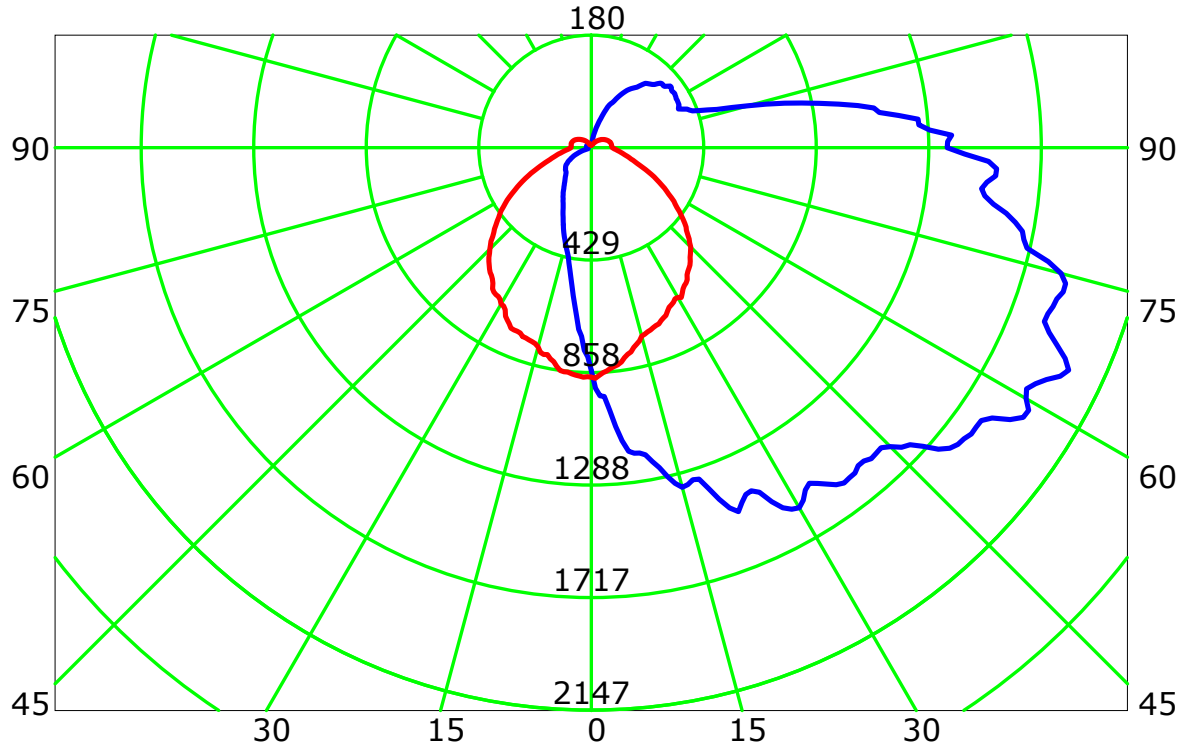
Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

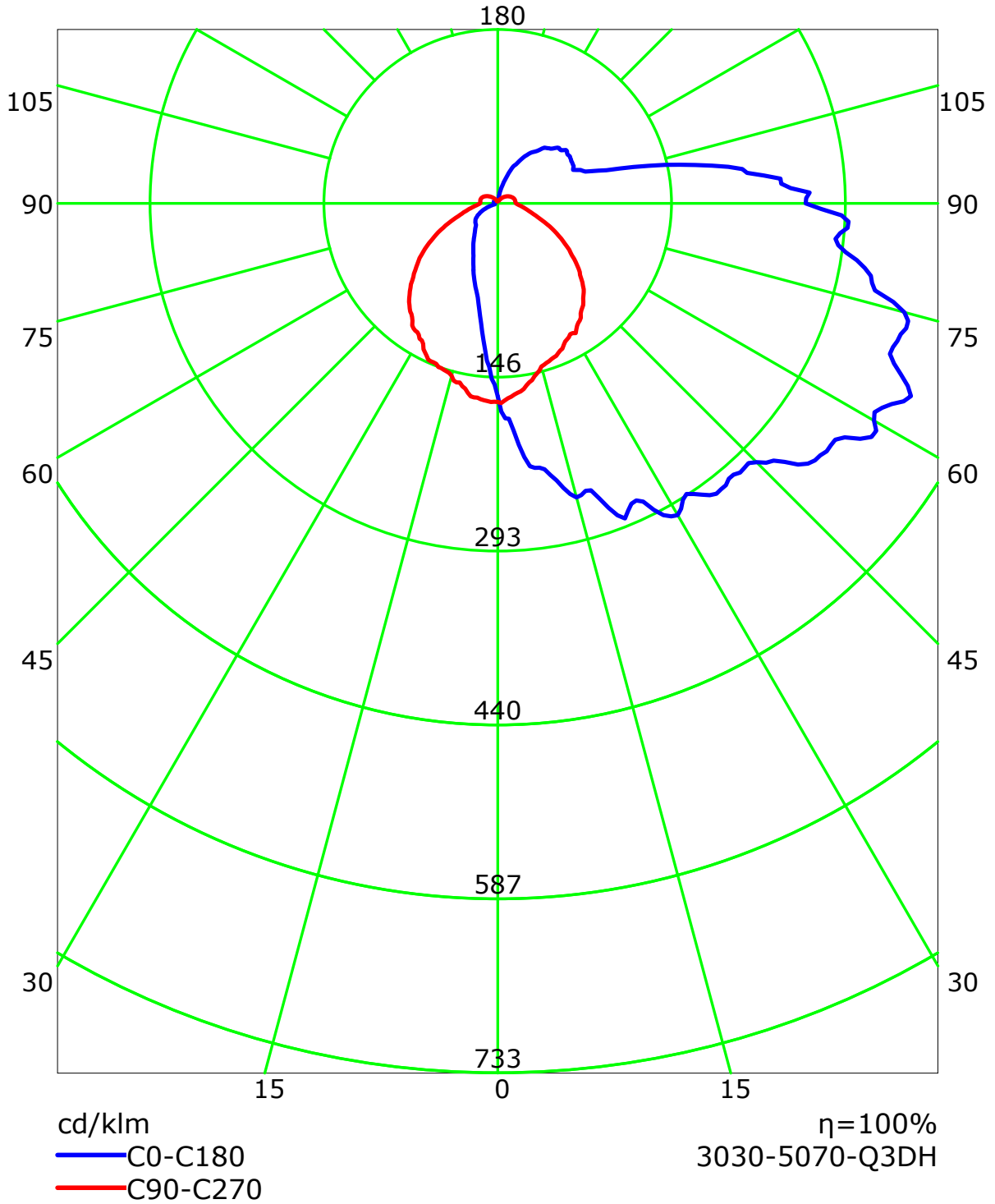
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



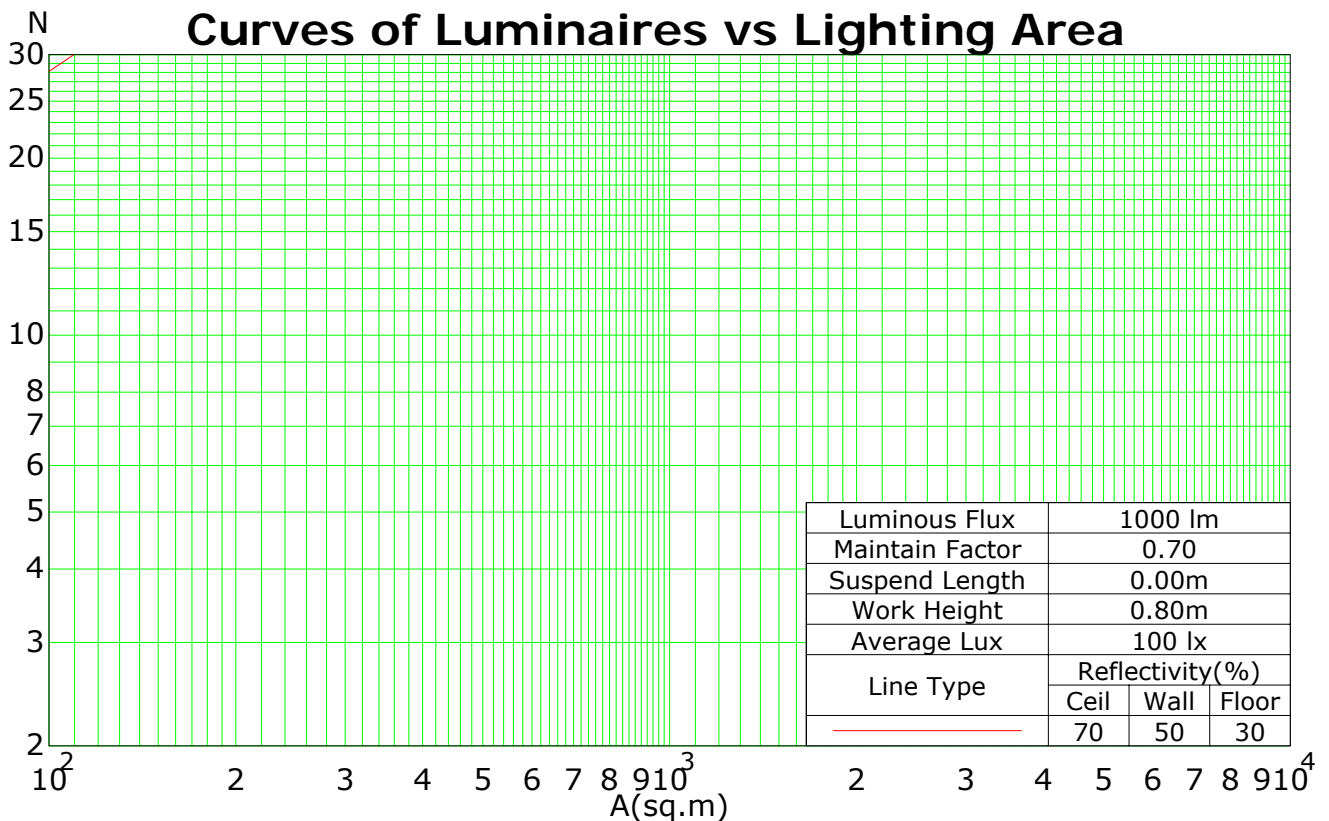
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 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	91	91	91	83	83	83	80
1	99	93	87	81	94	88	83	78	80	76	72	73	69	66	66	63	61	57
2	89	78	70	63	84	74	67	60	67	61	56	61	56	51	55	51	47	44
3	80	67	57	50	75	64	55	48	58	51	44	52	46	41	47	42	38	35
4	72	58	48	41	68	56	46	39	50	43	37	46	39	34	41	36	31	28
5	66	52	42	34	62	49	40	33	45	37	31	40	34	29	36	31	26	24
6	60	46	36	29	57	44	35	28	40	32	26	36	30	24	33	27	23	20
7	56	41	32	25	53	39	31	24	36	28	23	33	26	21	30	24	20	17
8	52	37	28	22	49	36	27	21	33	25	20	30	23	19	27	22	17	15
9	48	34	25	20	46	33	25	19	30	23	18	27	21	17	25	20	16	13
10	45	31	23	17	43	30	22	17	28	21	16	25	19	15	23	18	14	12

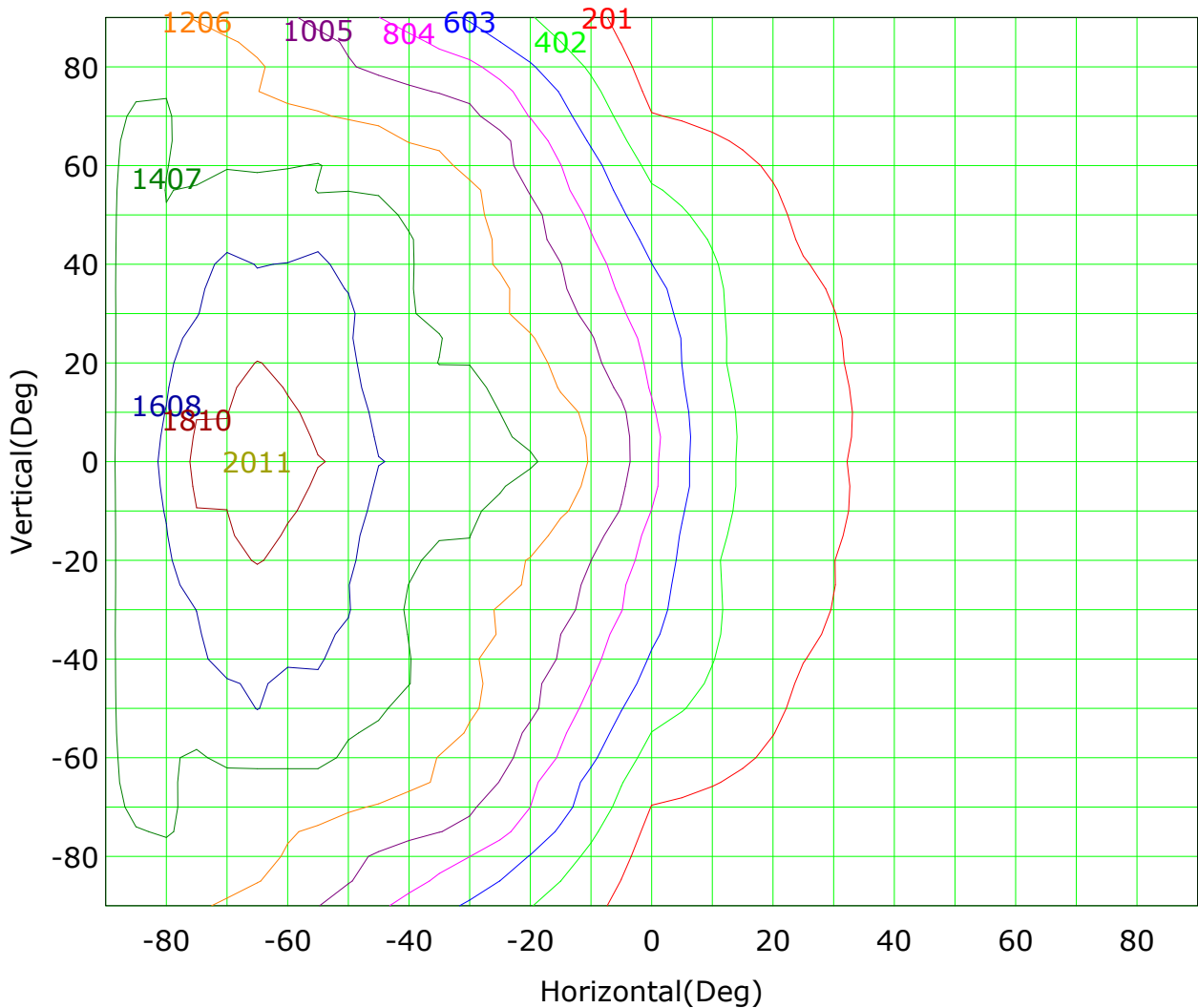
Spacing Criteria (0-180): 1.58
 Spacing Criteria (90-270): 1.16
 Spacing Criteria (Diagonal): 1.58



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Isocandela (rectangle)



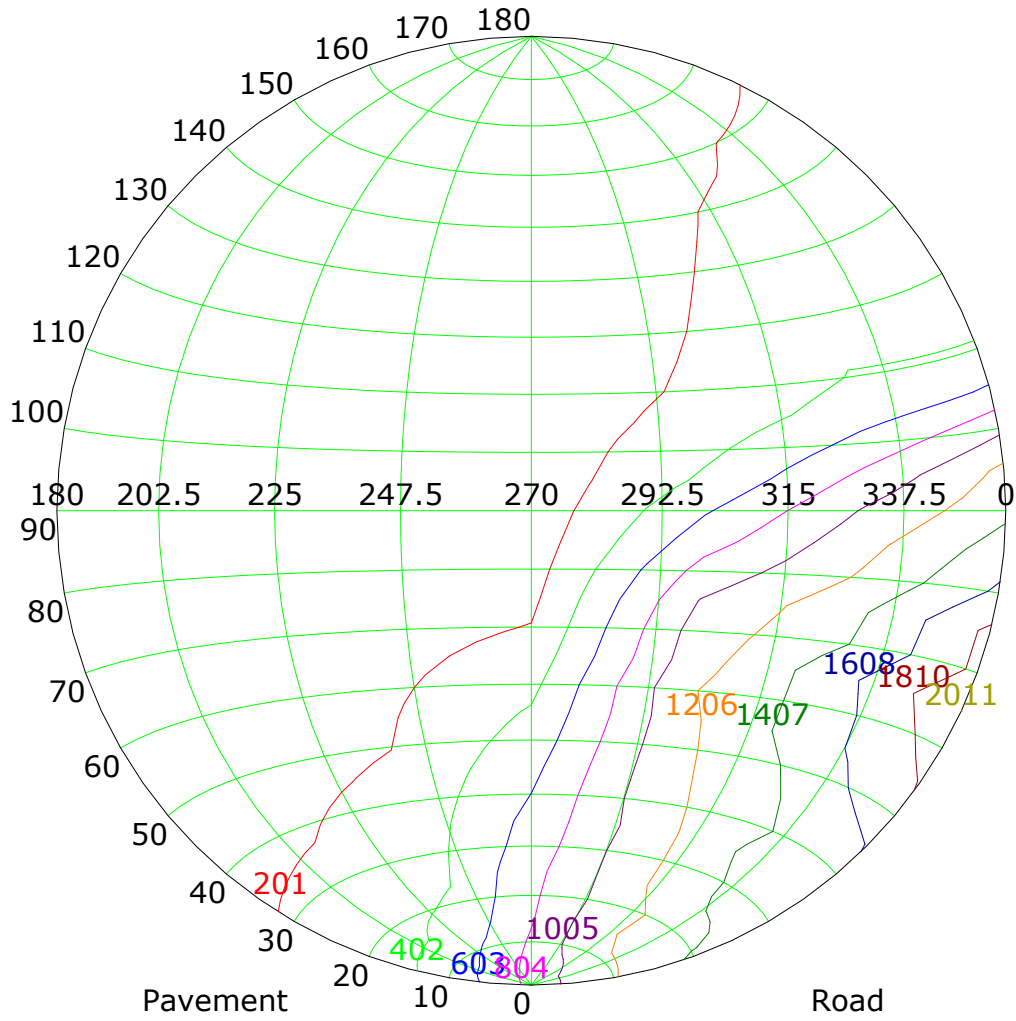
Imax (100%): 2011 cd

- | | |
|-------------------|-------------------|
| — (10%): 201 cd | — (20%): 402 cd |
| — (30%): 603 cd | — (40%): 804 cd |
| — (50%): 1005 cd | — (60%): 1206 cd |
| — (70%): 1407 cd | — (80%): 1608 cd |
| — (90%): 1810 cd | — (100%): 2011 cd |

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Isocandela (sphere)



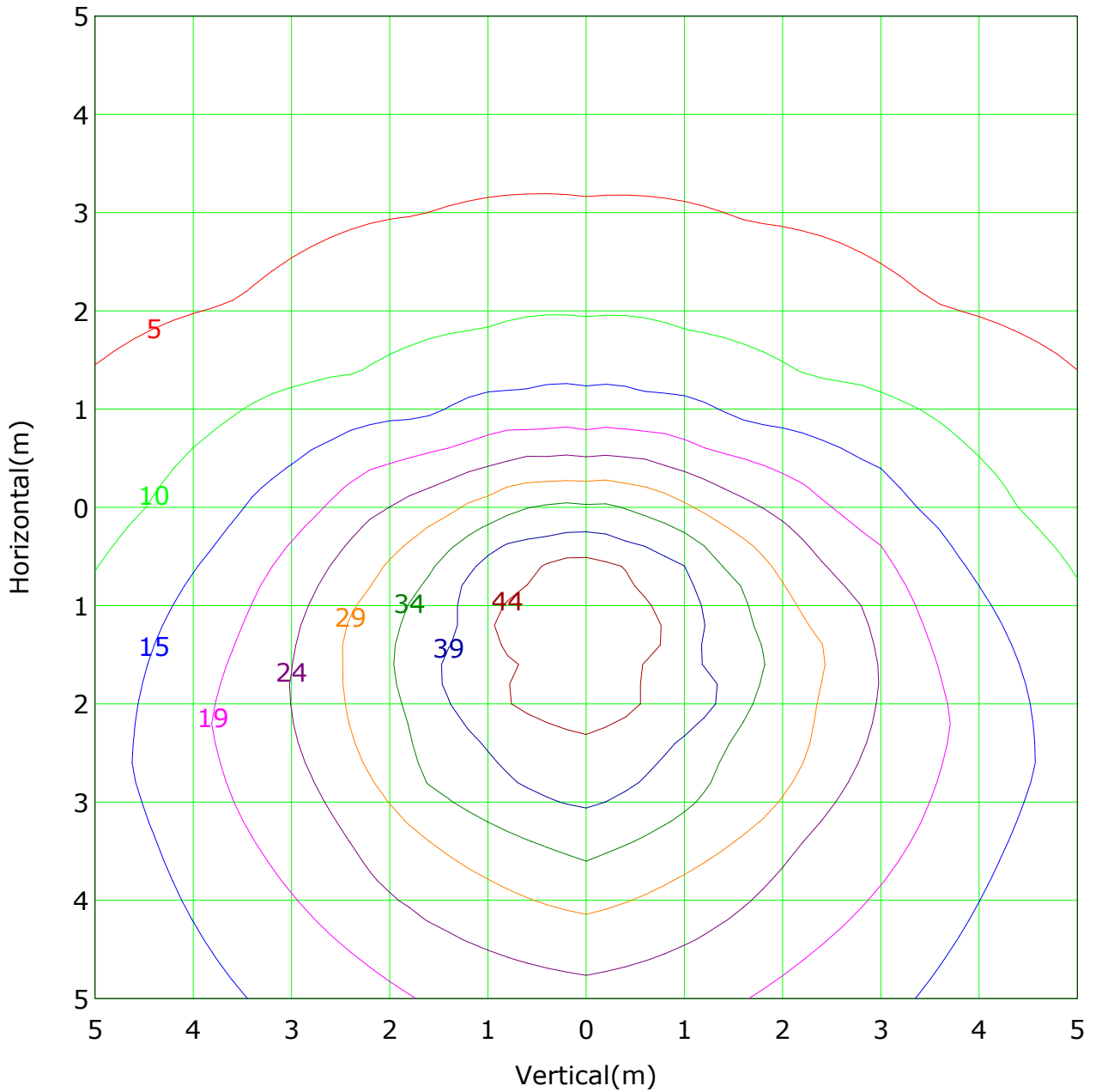
Imax (100%): 2011 cd

- | | |
|-------------------|-------------------|
| — (10%): 201 cd | — (20%): 402 cd |
| — (30%): 603 cd | — (40%): 804 cd |
| — (50%): 1005 cd | — (60%): 1206 cd |
| — (70%): 1407 cd | — (80%): 1608 cd |
| — (90%): 1810 cd | — (100%): 2011 cd |

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

IsoLux Plot



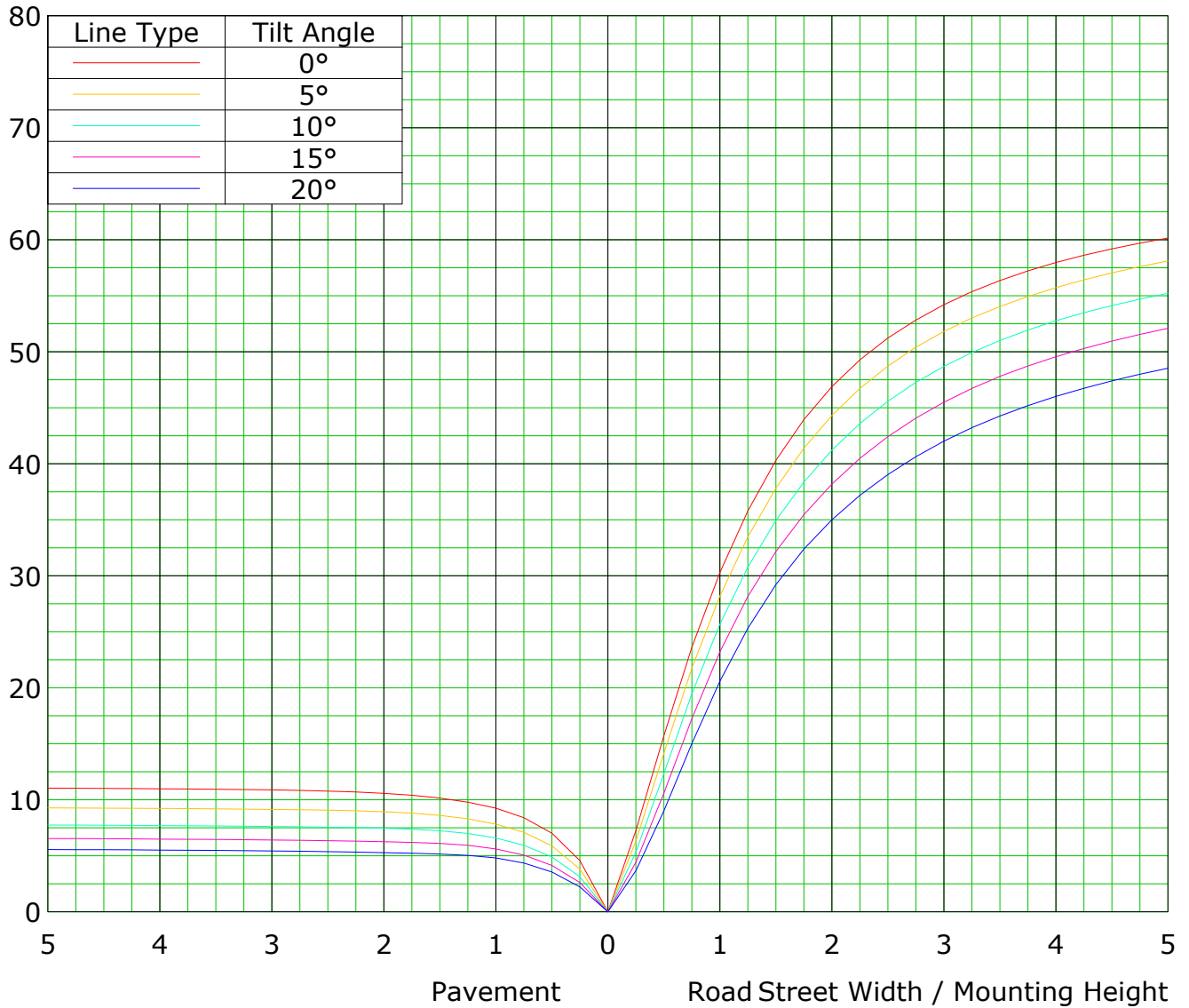
Mounting Height: 5.0m		Max Lux(100%): 48.4 lx
— (10%):	4.8 lx	— (20%): 9.7 lx
— (30%):	14.5 lx	— (40%): 19.4 lx
— (50%):	24.2 lx	— (60%): 29.0 lx
— (70%):	33.9 lx	— (80%): 38.7 lx
— (90%):	43.6 lx	— (100%): 48.4 lx

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Roadway CU Curve

Efficiency(%)



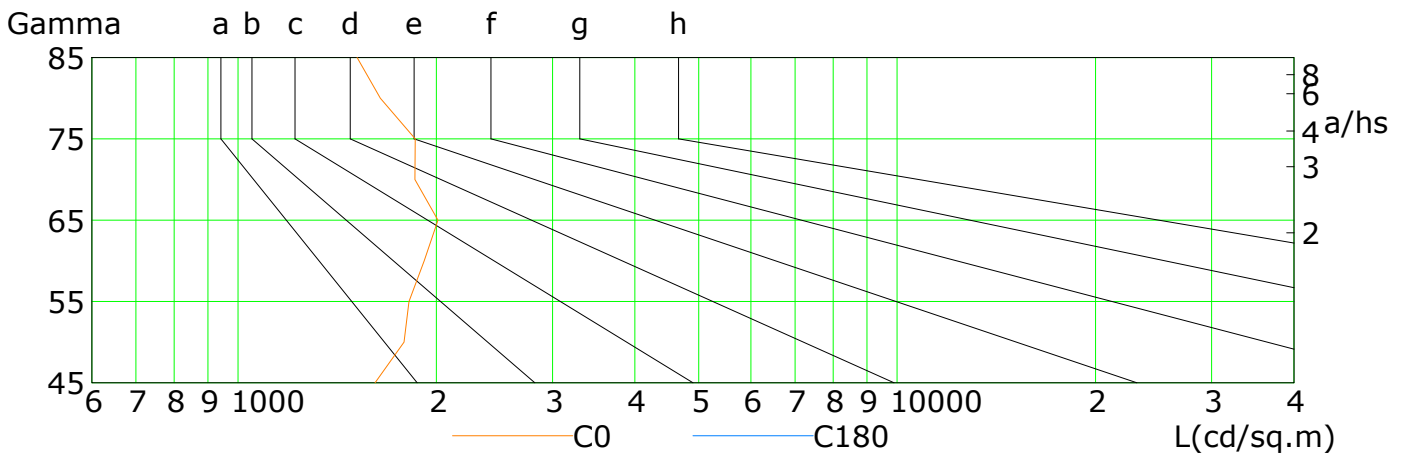
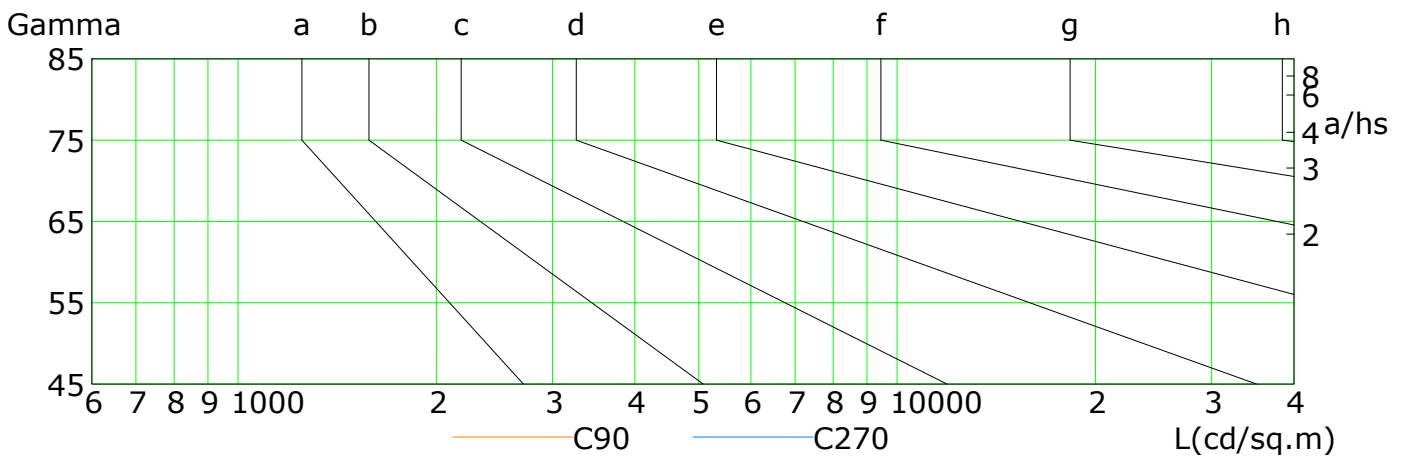
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 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	1614	1786	1817	1916	2011	1855	1857	1644	1516
C90	537	472	399	332	265	196	151	119	95
C180	137	130	119	99	73	41	13	14	15
C270	548	483	421	350	278	209	157	120	93

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

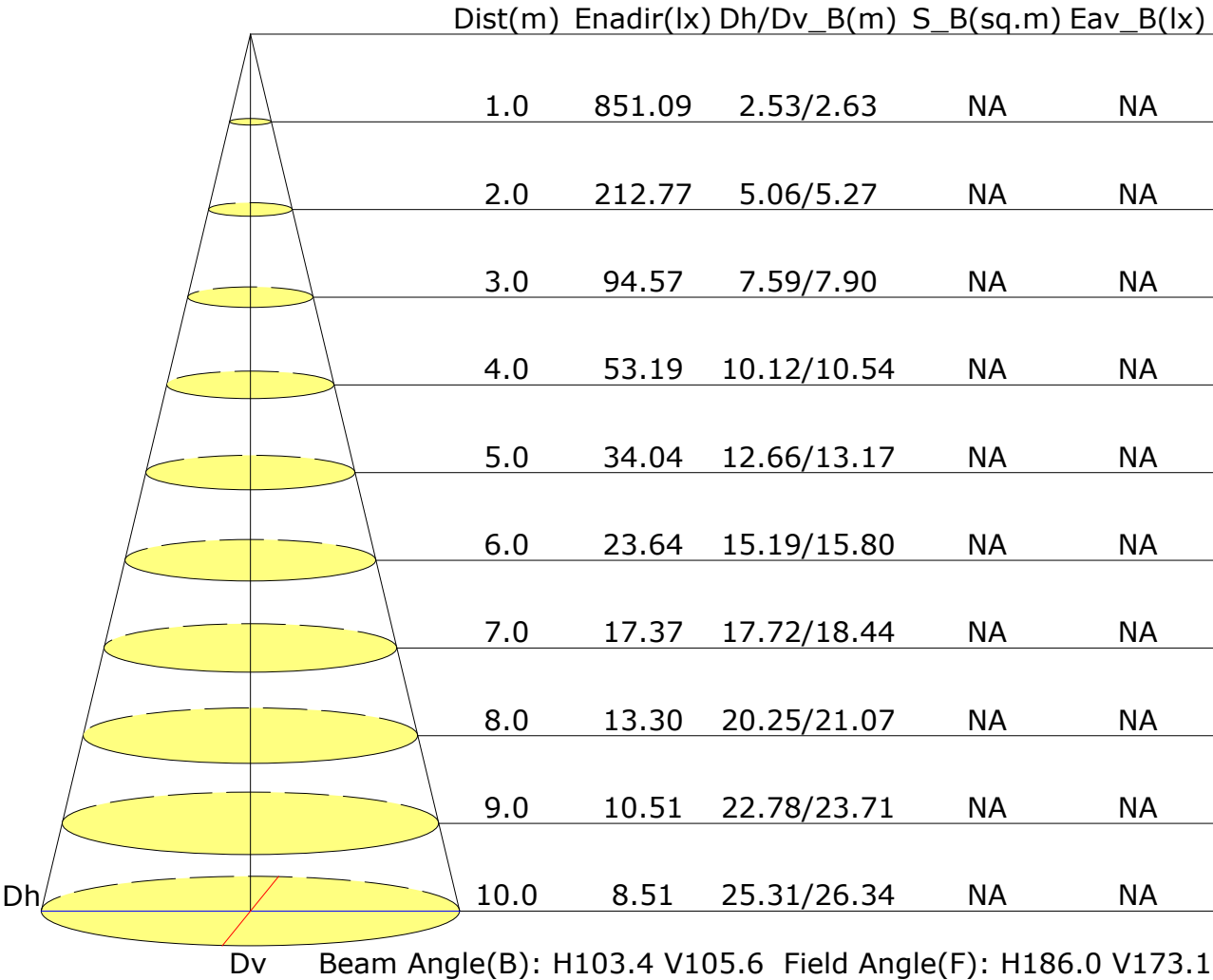
Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

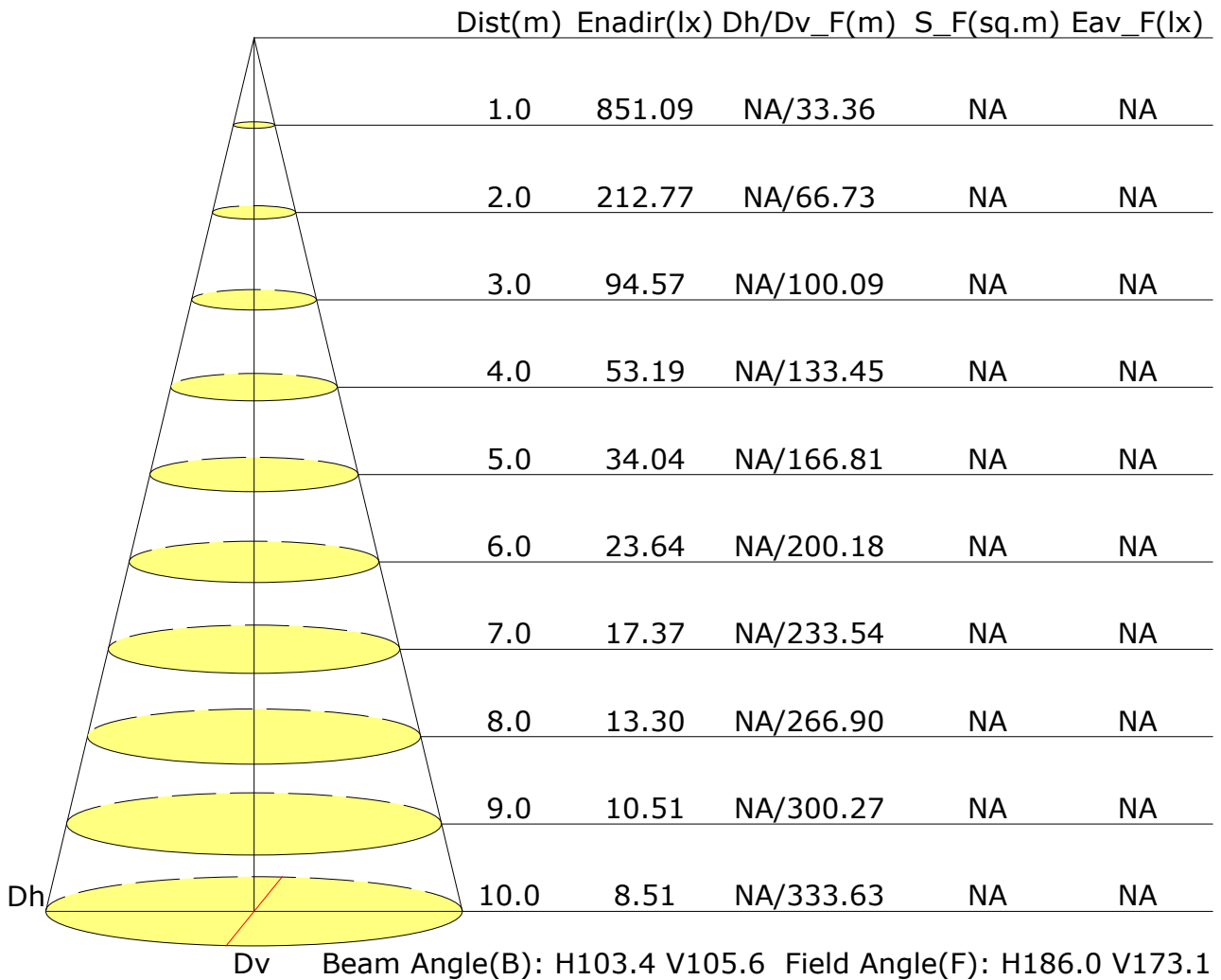
Illuminance at a Distance(Beam Angle)



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

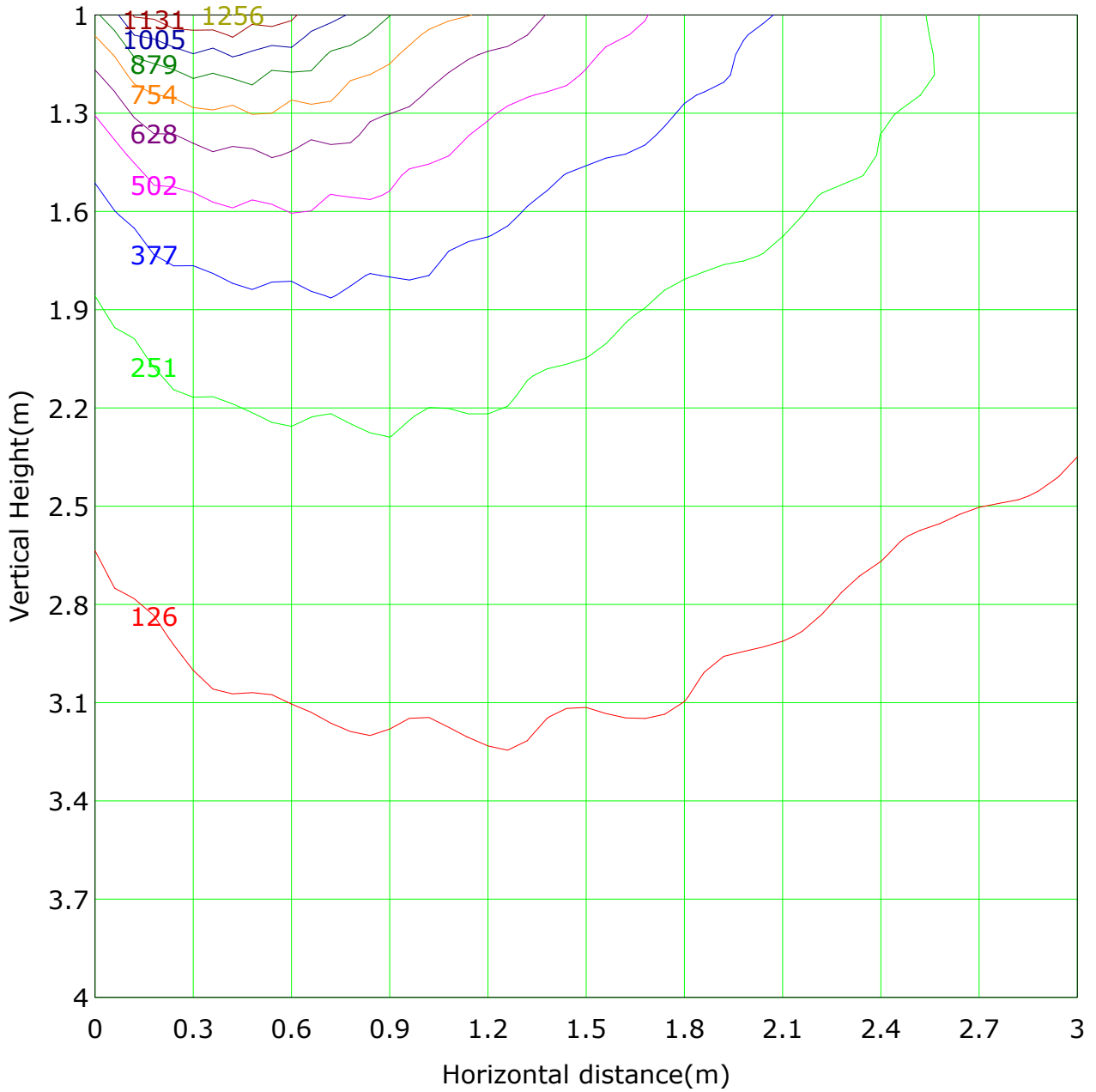
Illuminance at a Distance(Field Angle)



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m		Highest(m): 4.0m		Max Lux: 1256.2 lx	
— (10%): 125.6 lx	— (20%): 251.2 lx	— (30%): 376.9 lx	— (40%): 502.5 lx	— (50%): 628.1 lx	— (60%): 753.7 lx
— (70%): 879.3 lx	— (80%): 1005.0 lx	— (90%): 1130.6 lx	— (100%): 1256.2 lx		

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Area Flux Table

Unit: lm

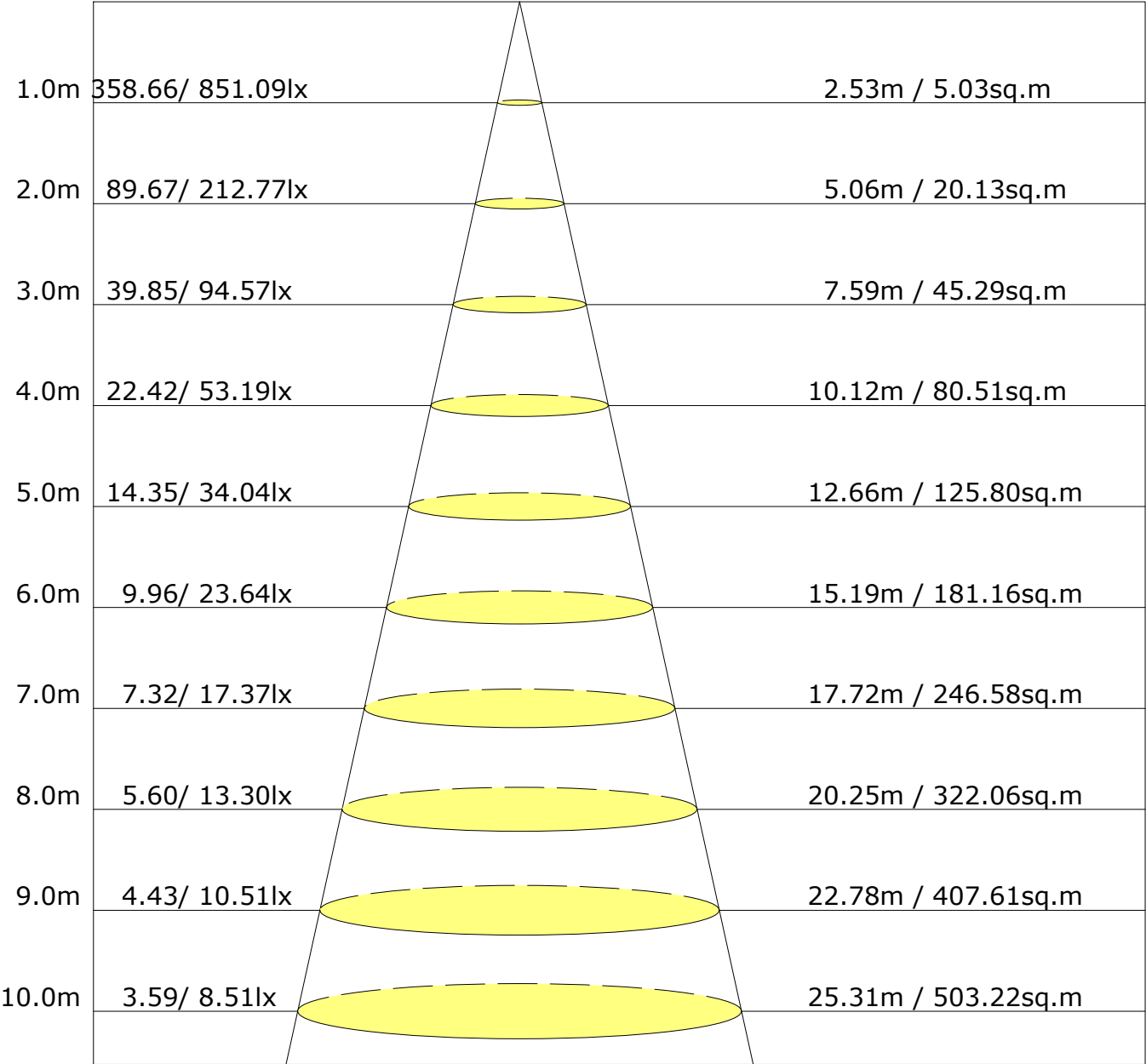
Vertical plane		Horizontal plane																					
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90			
Flux(E)	0.0	0.1	0.2	0.4	0.7	1.2	1.7	2.2	2.7	6.1	12.0	16.8	19.2	19.4	18.1	15.0	9.9	3.5	129.3	117.7			
Flux(T)	0.0	0.1	0.2	0.4	0.9	1.5	2.4	3.4	4.4	9.1	17.0	23.3	25.0	23.1	19.9	15.7	10.5	3.7	160.8	146.6			
Flux(E)	0.0	0.1	0.2	0.4	0.8	1.2	1.8	2.3	3.1	4.6	7.6	11.1	17.2	25.2	31.0	31.9	29.8	24.9	18.9	11.2	3.8	223.3	213.0
Flux(E)	0.0	0.1	0.4	1.2	2.3	3.7	5.3	9.1	14.2	20.7	28.0	32.6	33.2	31.7	27.2	20.3	11.9	3.9	245.9	234.8			
Flux(E)	0.0	0.1	0.6	1.6	2.6	4.1	6.2	10.0	16.5	23.6	30.4	33.6	33.4	32.6	28.8	21.4	12.6	3.9	262.2	252.3			
Flux(E)	0.0	0.1	0.8	1.8	2.9	4.4	6.9	10.4	18.0	26.5	33.0	35.3	34.6	32.8	29.7	22.6	13.2	4.0	277.2	267.6			
Flux(E)	0.0	0.1	0.9	2.0	3.1	4.7	7.0	11.0	18.8	29.2	35.6	38.1	36.4	33.5	30.6	23.6	13.7	4.0	292.3	282.9			
Flux(E)	0.0	0.1	0.9	2.0	3.1	4.7	7.3	11.4	20.0	31.6	37.9	40.1	38.2	34.6	31.7	24.4	14.1	4.1	306.2	296.8			
Flux(E)	0.0	0.1	0.9	2.0	3.0	4.7	7.2	11.3	19.7	31.0	37.2	39.5	37.9	34.5	31.6	24.4	14.1	4.1	303.4	293.9			
Flux(E)	0.0	0.1	0.9	1.9	3.0	4.5	6.9	10.7	18.0	28.0	34.2	36.6	35.6	33.2	30.5	23.6	13.8	4.0	285.7	275.8			
Flux(E)	0.0	0.1	0.8	1.8	2.8	4.3	6.7	10.1	17.0	25.1	31.9	34.4	33.7	32.4	29.6	22.7	13.3	4.0	270.7	260.9			
Flux(E)	0.0	0.1	0.6	1.5	2.5	4.0	6.1	9.8	16.0	23.0	29.7	32.8	32.8	32.3	28.6	21.6	12.8	3.9	258.1	248.1			
Flux(E)	0.0	0.1	0.4	1.2	2.3	3.6	5.3	9.0	13.8	20.2	27.4	31.9	32.8	31.2	27.3	20.7	12.0	3.9	243.2	232.1			
Flux(E)	0.0	0.1	0.2	0.8	1.8	3.0	4.5	7.4	10.7	16.6	24.6	30.4	31.2	29.6	25.6	19.4	11.4	3.9	221.3	210.8			
Flux(E)	0.0	0.1	0.2	0.4	1.2	2.2	3.4	5.3	7.2	12.6	20.9	27.5	29.1	27.5	23.6	17.7	10.8	3.8	193.7	181.1			
Flux(E)	0.0	0.1	0.2	0.4	0.8	1.4	2.3	3.3	4.2	8.9	16.7	22.8	24.8	23.5	20.7	16.2	10.7	3.7	160.9	147.2			
Flux(E)	0.0	0.1	0.2	0.4	0.7	1.1	1.6	2.1	2.7	6.0	11.8	16.4	19.1	19.8	18.8	15.5	10.1	3.5	129.9	118.6			
Flux(T)	0.7	2.3	8.7	21.0	36.8	58.7	88.9	139.7	222.6	348.7	475.0	551.3	558.3	528.7	469.9	360.7	216.9	69.6	4159				
Flux(E)	0.0	0.0	0.0	0.0	0.0	5.5	56.8	120.9	206.8	342.2	475.0	551.3	558.3	528.7	469.9	360.7	216.9	69.6	3963				

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

The Average Illuminance Effective Figure

Flux Out: 1804.86lm



Height Avg./Nadir. E Beam Angle: 103.4° Diameter / Area

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

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

UGR Table

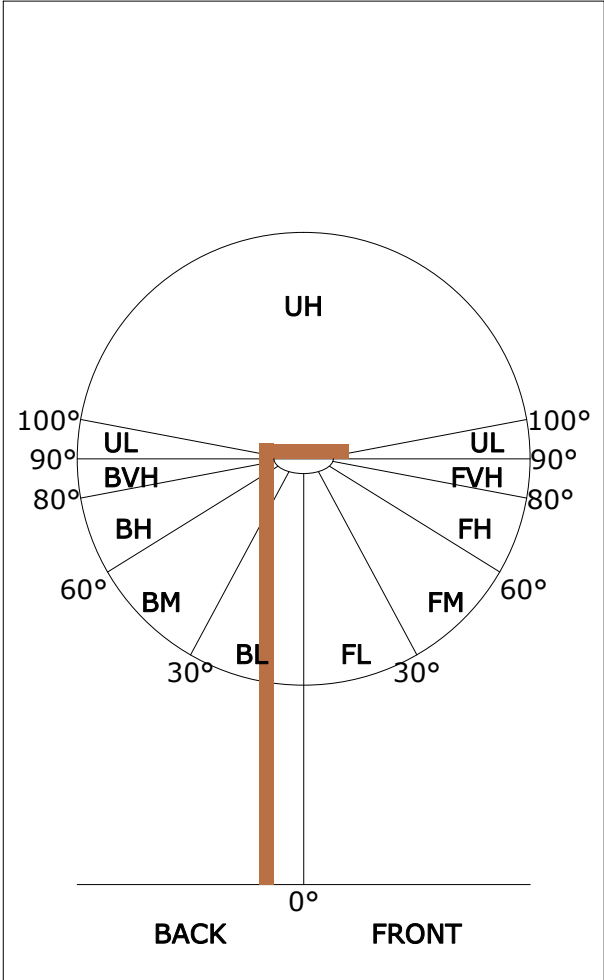
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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 5223lm ($8\log(F/F_0) = 5.7$).

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



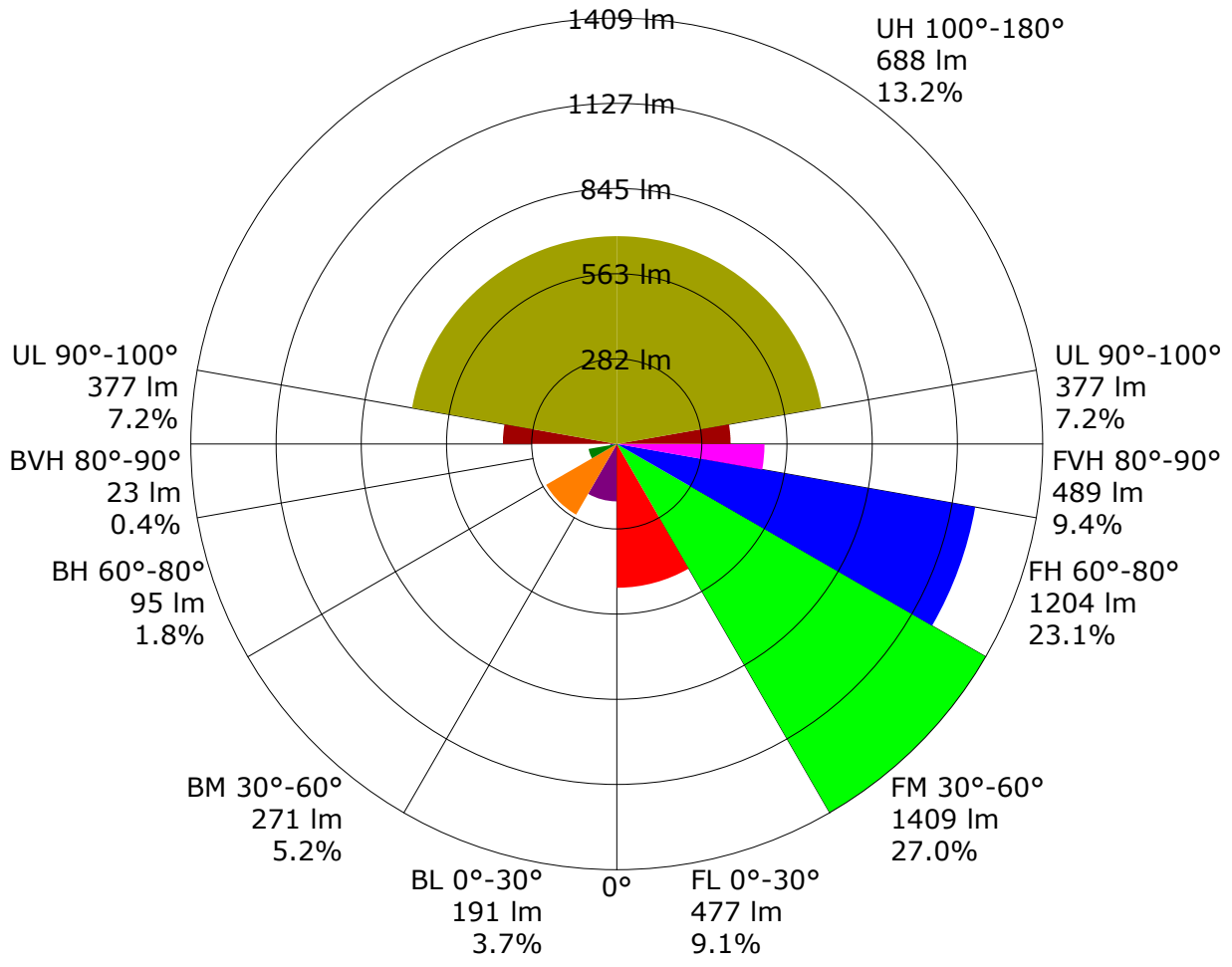
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	3579	68.5
FL (0°-30°)	477	9.1
FM (30°-60°)	1409	27.0
FH (60°-80°)	1204	23.1
FVH (80°-90°)	489	9.4
BACK LIGHT	579	11.1
BL (0°-30°)	191	3.7
BM (30°-60°)	271	5.2
BH (60°-80°)	95	1.8
BVH (80°-90°)	23	0.4
UP LIGHT	1065	20.4
UL (90°-100°)	377	7.2
UH (100°-180°)	688	13.2
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U5 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U5 G3

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

LCS Graph



Back Light

Forward Light

Scale= 1409 lm

Trapped Light:NA,NA

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.44	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.90	
	0.30		0.35	0.43	0.50	0.55	0.64	0.70	0.74	0.80	0.85	
	0.20		0.29	0.36	0.43	0.49	0.57	0.63	0.68	0.75	0.80	
0.50	0.50	0.20	0.40	0.47	0.54	0.58	0.65	0.70	0.73	0.78	0.82	
	0.30		0.33	0.40	0.46	0.51	0.59	0.64	0.68	0.74	0.78	
	0.20		0.28	0.34	0.41	0.45	0.53	0.59	0.63	0.69	0.74	
0.30	0.50	0.20	0.37	0.43	0.49	0.53	0.59	0.64	0.67	0.71	0.74	
	0.30		0.31	0.37	0.43	0.47	0.54	0.59	0.62	0.67	0.71	
	0.20		0.26	0.32	0.38	0.42	0.49	0.54	0.58	0.64	0.68	
0.00	0.00	0.00	0.22	0.27	0.32	0.36	0.42	0.47	0.50	0.55	0.59	
<p>Rating:44W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.967 m
Humidity:
Inspector:

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	1.08	0.95	0.83	0.74	0.62	0.53	0.47	0.38	0.32	
	0.30		0.90	0.81	0.72	0.66	0.56	0.49	0.43	0.35	0.30	
	0.20		0.77	0.71	0.64	0.59	0.51	0.45	0.40	0.33	0.29	
0.50	0.50	0.20	1.00	0.88	0.77	0.69	0.57	0.51	0.43	0.35	0.30	
	0.30		0.85	0.76	0.68	0.62	0.52	0.46	0.41	0.33	0.28	
	0.20		0.74	0.67	0.61	0.56	0.48	0.42	0.38	0.32	0.27	
0.30	0.50	0.20	0.94	0.82	0.71	0.64	0.53	0.46	0.40	0.33	0.28	
	0.30		0.80	0.72	0.64	0.58	0.49	0.43	0.38	0.31	0.27	
	0.20		0.70	0.64	0.58	0.53	0.46	0.40	0.36	0.30	0.26	
0.00	0.00	0.00	0.58	0.53	0.48	0.44	0.38	0.33	0.30	0.25	0.21	
<p>Rating:44W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

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	0.37	0.38	0.39	0.40	0.41	0.41	0.41	0.42	0.42	
	0.30		0.29	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	
	0.20		0.24	0.25	0.26	0.28	0.29	0.31	0.32	0.33	0.35	
0.50	0.50	0.20	0.36	0.37	0.38	0.38	0.39	0.39	0.40	0.40	0.40	
	0.30		0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	
	0.20		0.24	0.25	0.26	0.27	0.29	0.30	0.31	0.32	0.34	
0.30	0.50	0.20	0.34	0.36	0.36	0.37	0.37	0.38	0.38	0.38	0.38	
	0.30		0.28	0.30	0.30	0.31	0.32	0.33	0.34	0.35	0.35	
	0.20		0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.32	0.33	
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:44W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	868.1	0.8	0.8	0.02	0.02
1.0-2.0	866.4	2.5	3.3	0.05	0.06
2.0-3.0	859.4	4.1	7.4	0.08	0.14
3.0-4.0	853.0	5.7	13.1	0.11	0.25
4.0-5.0	852.8	7.3	20.5	0.14	0.39
5.0-6.0	851.4	8.9	29.4	0.17	0.56
6.0-7.0	850.3	10.6	40.0	0.20	0.77
7.0-8.0	850.7	12.2	52.2	0.23	1.00
8.0-9.0	845.6	13.7	65.9	0.26	1.26
9.0-10.0	836.5	15.1	81.0	0.29	1.55
10.0-11.0	828.0	16.5	97.6	0.32	1.87
11.0-12.0	822.4	18.0	115.5	0.34	2.21
12.0-13.0	820.7	19.5	135.0	0.37	2.58
13.0-14.0	817.6	20.9	155.9	0.40	2.99
14.0-15.0	813.2	22.3	178.3	0.43	3.41
15.0-16.0	809.1	23.7	202.0	0.45	3.87
16.0-17.0	802.5	25.0	227.0	0.48	4.35
17.0-18.0	794.0	26.2	253.2	0.50	4.85
18.0-19.0	787.4	27.4	280.6	0.52	5.37
19.0-20.0	783.5	28.7	309.2	0.55	5.92
20.0-21.0	781.3	30.0	339.2	0.57	6.49
21.0-22.0	782.7	31.5	370.7	0.60	7.10
22.0-23.0	784.2	32.9	403.6	0.63	7.73
23.0-24.0	782.5	34.2	437.8	0.66	8.38
24.0-25.0	779.5	35.4	473.3	0.68	9.06
25.0-26.0	775.1	36.6	509.9	0.70	9.76
26.0-27.0	770.9	37.7	547.6	0.72	10.48
27.0-28.0	768.7	38.9	586.5	0.75	11.23
28.0-29.0	766.7	40.1	626.6	0.77	12.00
29.0-30.0	765.5	41.3	668.0	0.79	12.79
30.0-31.0	764.9	42.6	710.5	0.81	13.60
31.0-32.0	762.4	43.7	754.2	0.84	14.44
32.0-33.0	759.7	44.8	799.0	0.86	15.30
33.0-34.0	757.7	45.9	844.8	0.88	16.17
34.0-35.0	755.1	46.9	891.7	0.90	17.07
35.0-36.0	750.6	47.8	939.5	0.92	17.99

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	744.4	48.6	988.1	0.93	18.92
37.0-38.0	738.1	49.3	1037.4	0.94	19.86
38.0-39.0	732.9	50.0	1087.4	0.96	20.82
39.0-40.0	730.0	50.9	1138.3	0.97	21.79
40.0-41.0	730.2	52.0	1190.3	1.00	22.79
41.0-42.0	731.8	53.2	1243.5	1.02	23.81
42.0-43.0	731.7	54.2	1297.7	1.04	24.84
43.0-44.0	728.1	55.0	1352.7	1.05	25.90
44.0-45.0	723.7	55.6	1408.3	1.06	26.96
45.0-46.0	720.0	56.3	1464.6	1.08	28.04
46.0-47.0	716.3	57.0	1521.6	1.09	29.13
47.0-48.0	714.8	57.8	1579.4	1.11	30.24
48.0-49.0	717.5	58.9	1638.3	1.13	31.37
49.0-50.0	721.3	60.1	1698.5	1.15	32.52
50.0-51.0	724.1	61.3	1759.7	1.17	33.69
51.0-52.0	726.1	62.3	1822.0	1.19	34.88
52.0-53.0	727.7	63.3	1885.4	1.21	36.10
53.0-54.0	726.9	64.1	1949.4	1.23	37.32
54.0-55.0	724.2	64.7	2014.1	1.24	38.56
55.0-56.0	723.4	65.4	2079.5	1.25	39.81
56.0-57.0	725.2	66.3	2145.8	1.27	41.08
57.0-58.0	724.6	67.0	2212.8	1.28	42.36
58.0-59.0	720.2	67.3	2280.1	1.29	43.65
59.0-60.0	713.9	67.5	2347.6	1.29	44.94
60.0-61.0	707.3	67.5	2415.1	1.29	46.24
61.0-62.0	703.4	67.8	2482.9	1.30	47.53
62.0-63.0	701.2	68.2	2551.1	1.31	48.84
63.0-64.0	698.3	68.5	2619.6	1.31	50.15
64.0-65.0	693.7	68.7	2688.3	1.31	51.47
65.0-66.0	685.8	68.4	2756.7	1.31	52.78
66.0-67.0	675.6	67.9	2824.7	1.30	54.08
67.0-68.0	665.6	67.4	2892.1	1.29	55.37
68.0-69.0	654.9	66.8	2958.9	1.28	56.65
69.0-70.0	643.7	66.1	3025.0	1.27	57.91
70.0-71.0	632.8	65.4	3090.4	1.25	59.17
71.0-72.0	623.9	64.9	3155.3	1.24	60.41

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	619.5	64.8	3220.1	1.24	61.65
73.0-74.0	616.5	64.8	3284.9	1.24	62.89
74.0-75.0	606.5	64.1	3349.0	1.23	64.12
75.0-76.0	588.2	62.4	3411.5	1.20	65.31
76.0-77.0	567.9	60.6	3472.0	1.16	66.47
77.0-78.0	553.0	59.2	3531.2	1.13	67.61
78.0-79.0	542.3	58.3	3589.5	1.12	68.72
79.0-80.0	531.2	57.3	3646.8	1.10	69.82
80.0-81.0	518.3	56.1	3702.8	1.07	70.89
81.0-82.0	501.4	54.4	3757.2	1.04	71.93
82.0-83.0	485.4	52.8	3810.0	1.01	72.94
83.0-84.0	475.2	51.8	3861.8	0.99	73.93
84.0-85.0	470.0	51.3	3913.1	0.98	74.92
85.0-86.0	468.3	51.2	3964.3	0.98	75.90
86.0-87.0	464.0	50.8	4015.1	0.97	76.87
87.0-88.0	452.8	49.6	4064.7	0.95	77.82
88.0-89.0	437.1	47.9	4112.6	0.92	78.74
89.0-90.0	420.4	46.1	4158.7	0.88	79.62
90.0-91.0	406.4	44.6	4203.3	0.85	80.47
91.0-92.0	395.8	43.4	4246.6	0.83	81.30
92.0-93.0	382.8	41.9	4288.6	0.80	82.10
93.0-94.0	367.5	40.2	4328.8	0.77	82.87
94.0-95.0	353.0	38.6	4367.4	0.74	83.61
95.0-96.0	338.3	36.9	4404.3	0.71	84.32
96.0-97.0	322.6	35.2	4439.5	0.67	84.99
97.0-98.0	308.8	33.6	4473.0	0.64	85.64
98.0-99.0	296.7	32.2	4505.2	0.62	86.25
99.0-100.0	281.8	30.5	4535.7	0.58	86.84
100.0-101.0	266.1	28.7	4564.4	0.55	87.38
101.0-102.0	251.3	27.0	4591.4	0.52	87.90
102.0-103.0	237.2	25.4	4616.8	0.49	88.39
103.0-104.0	224.0	23.9	4640.7	0.46	88.85
104.0-105.0	211.2	22.4	4663.1	0.43	89.27
105.0-106.0	199.2	21.1	4684.1	0.40	89.68
106.0-107.0	188.6	19.8	4704.0	0.38	90.06
107.0-108.0	180.0	18.8	4722.8	0.36	90.42

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	173.1	18.0	4740.8	0.34	90.76
109.0-110.0	167.1	17.3	4758.1	0.33	91.09
110.0-111.0	162.6	16.7	4774.8	0.32	91.41
111.0-112.0	159.2	16.2	4791.0	0.31	91.72
112.0-113.0	155.8	15.8	4806.8	0.30	92.03
113.0-114.0	152.8	15.4	4822.2	0.29	92.32
114.0-115.0	151.1	15.1	4837.2	0.29	92.61
115.0-116.0	150.1	14.9	4852.1	0.28	92.89
116.0-117.0	148.7	14.6	4866.7	0.28	93.17
117.0-118.0	147.0	14.3	4881.0	0.27	93.45
118.0-119.0	145.3	14.0	4895.0	0.27	93.71
119.0-120.0	143.9	13.7	4908.7	0.26	93.98
120.0-121.0	142.5	13.5	4922.2	0.26	94.23
121.0-122.0	141.1	13.2	4935.4	0.25	94.49
122.0-123.0	139.8	12.9	4948.3	0.25	94.74
123.0-124.0	138.6	12.7	4961.0	0.24	94.98
124.0-125.0	137.1	12.4	4973.4	0.24	95.21
125.0-126.0	135.6	12.1	4985.5	0.23	95.45
126.0-127.0	134.5	11.9	4997.3	0.23	95.67
127.0-128.0	133.5	11.6	5009.0	0.22	95.90
128.0-129.0	131.7	11.3	5020.3	0.22	96.11
129.0-130.0	129.4	11.0	5031.2	0.21	96.32
130.0-131.0	127.6	10.6	5041.9	0.20	96.53
131.0-132.0	126.2	10.4	5052.2	0.20	96.72
132.0-133.0	124.7	10.1	5062.3	0.19	96.92
133.0-134.0	122.9	9.8	5072.1	0.19	97.10
134.0-135.0	120.8	9.4	5081.5	0.18	97.29
135.0-136.0	118.7	9.1	5090.7	0.17	97.46
136.0-137.0	117.0	8.8	5099.5	0.17	97.63
137.0-138.0	115.4	8.6	5108.0	0.16	97.79
138.0-139.0	113.7	8.3	5116.3	0.16	97.95
139.0-140.0	111.8	8.0	5124.3	0.15	98.10
140.0-141.0	109.0	7.6	5131.9	0.15	98.25
141.0-142.0	105.2	7.2	5139.0	0.14	98.39
142.0-143.0	101.3	6.8	5145.8	0.13	98.52
143.0-144.0	98.0	6.4	5152.2	0.12	98.64

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	95.2	6.1	5158.3	0.12	98.75
145.0-146.0	92.8	5.8	5164.0	0.11	98.86
146.0-147.0	90.4	5.5	5169.5	0.10	98.97
147.0-148.0	87.9	5.2	5174.7	0.10	99.07
148.0-149.0	85.1	4.9	5179.6	0.09	99.16
149.0-150.0	81.8	4.6	5184.1	0.09	99.25
150.0-151.0	78.2	4.2	5188.3	0.08	99.33
151.0-152.0	74.3	3.9	5192.2	0.07	99.40
152.0-153.0	70.6	3.6	5195.8	0.07	99.47
153.0-154.0	67.0	3.3	5199.1	0.06	99.54
154.0-155.0	63.5	3.0	5202.1	0.06	99.59
155.0-156.0	60.5	2.8	5204.8	0.05	99.65
156.0-157.0	57.8	2.5	5207.3	0.05	99.69
157.0-158.0	54.6	2.3	5209.6	0.04	99.74
158.0-159.0	50.7	2.0	5211.7	0.04	99.78
159.0-160.0	46.9	1.8	5213.5	0.03	99.81
160.0-161.0	43.3	1.6	5215.1	0.03	99.84
161.0-162.0	39.4	1.4	5216.4	0.03	99.87
162.0-163.0	35.9	1.2	5217.6	0.02	99.89
163.0-164.0	32.6	1.0	5218.6	0.02	99.91
164.0-165.0	29.6	0.9	5219.5	0.02	99.93
165.0-166.0	26.8	0.7	5220.2	0.01	99.94
166.0-167.0	24.1	0.6	5220.8	0.01	99.95
167.0-168.0	21.9	0.5	5221.4	0.01	99.96
168.0-169.0	19.8	0.4	5221.8	0.01	99.97
169.0-170.0	17.6	0.4	5222.2	0.01	99.98
170.0-171.0	15.4	0.3	5222.4	0.01	99.98
171.0-172.0	13.2	0.2	5222.6	0.00	99.99
172.0-173.0	11.7	0.2	5222.8	0.00	99.99
173.0-174.0	11.0	0.1	5222.9	0.00	99.99
174.0-175.0	10.8	0.1	5223.1	0.00	100.00
175.0-176.0	10.8	0.1	5223.2	0.00	100.00
176.0-177.0	10.8	0.1	5223.2	0.00	100.00
177.0-178.0	10.8	0.1	5223.3	0.00	100.00
178.0-179.0	10.8	0.0	5223.3	0.00	100.00
179.0-180.0	10.8	0.0	5223.3	0.00	100.00

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	851.1	857.1	866.5	876.1	880.7	879.8	851.1	857.1	866.5	876.1
G1.0	918.6	919.7	908.4	880.7	841.8	819.0	798.9	800.0	827.1	874.8
G2.0	948.1	946.2	926.4	870.1	801.7	790.7	774.2	786.6	800.9	876.7
G3.0	951.7	949.8	933.1	860.6	784.2	759.4	721.7	742.7	789.9	873.3
G4.0	1003.8	964.8	934.5	854.7	776.0	710.3	695.1	713.5	778.5	870.6
G5.0	1068.3	1020.2	926.2	846.2	746.8	687.3	646.2	688.5	756.1	867.1
G6.0	1125.0	1071.2	925.5	839.9	715.4	647.3	606.3	634.2	728.4	861.3
G7.0	1168.2	1110.0	945.5	835.0	696.1	600.8	569.5	605.3	707.5	862.2
G8.0	1178.0	1135.4	975.8	826.5	681.5	579.4	532.9	577.9	699.7	859.3
G9.0	1180.4	1143.5	993.8	812.1	658.8	537.3	501.1	539.9	679.0	845.8
G10.0	1190.5	1155.3	1008.7	801.2	629.8	514.7	473.8	516.9	649.0	829.5
G11.0	1220.4	1160.1	1018.8	794.2	597.1	482.4	448.6	484.8	619.4	821.5
G12.0	1249.0	1179.3	1033.6	780.0	580.6	458.5	424.6	461.7	600.1	808.0
G13.0	1287.7	1197.8	1044.3	770.0	562.8	435.8	409.1	438.9	583.2	810.4
G14.0	1320.8	1209.2	1043.0	760.1	535.3	416.2	394.7	422.0	552.5	805.3
G15.0	1342.5	1228.1	1038.4	744.9	513.5	400.2	381.5	407.6	532.4	787.3
G16.0	1338.3	1245.2	1035.3	740.7	495.9	386.0	367.2	392.5	515.8	778.0
G17.0	1325.7	1253.8	1030.7	735.4	471.0	372.1	354.2	379.5	488.0	774.9
G18.0	1330.8	1255.2	1036.4	732.1	454.0	360.1	341.0	367.0	467.5	771.5
G19.0	1376.4	1238.0	1045.7	726.7	440.2	348.7	328.1	354.7	452.1	768.5
G20.0	1428.8	1231.0	1041.4	722.9	423.5	337.2	313.7	342.1	436.1	767.5
G21.0	1473.2	1233.5	1034.2	720.6	407.8	324.5	300.6	329.0	421.5	758.0
G22.0	1498.8	1261.6	1036.3	711.9	396.3	313.6	288.3	316.9	412.1	756.4
G23.0	1472.0	1302.6	1035.8	705.5	386.6	302.6	277.0	305.4	402.0	756.5
G24.0	1449.8	1341.4	1032.1	701.1	376.7	291.1	266.0	294.1	394.0	754.7
G25.0	1445.5	1362.6	1042.1	688.8	369.4	279.0	255.0	283.0	383.9	741.9
G26.0	1463.5	1347.0	1049.5	678.2	362.0	269.0	246.2	273.5	373.6	732.4
G27.0	1517.3	1311.9	1051.9	673.7	352.3	259.3	237.6	264.6	367.0	722.4
G28.0	1557.3	1292.5	1067.1	668.7	347.4	250.4	230.8	256.2	359.6	701.2
G29.0	1578.1	1285.9	1086.3	659.8	341.7	242.3	223.0	247.4	350.0	691.0
G30.0	1587.9	1287.5	1105.2	660.8	332.1	234.5	216.3	240.1	343.8	689.7
G31.0	1570.8	1306.3	1102.5	667.8	324.4	228.1	209.8	234.2	334.5	676.4
G32.0	1541.6	1340.9	1095.9	654.9	319.0	221.6	203.0	228.2	323.7	670.3
G33.0	1528.1	1376.8	1092.6	642.9	309.4	215.4	195.2	222.4	316.6	669.2
G34.0	1546.3	1395.5	1087.4	635.3	300.5	209.3	188.7	217.4	309.2	665.3
G35.0	1568.4	1394.7	1081.0	630.6	294.5	203.3	182.2	212.1	301.7	657.8
G36.0	1590.6	1377.3	1076.7	623.6	288.8	197.7	176.3	206.9	294.7	640.1

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G37.0	1603.1	1349.6	1080.6	607.9	281.0	192.4	170.7	201.5	286.3	628.3
G38.0	1600.1	1327.0	1088.8	599.3	273.1	186.8	165.4	195.4	278.0	619.4
G39.0	1598.9	1313.9	1090.8	592.4	265.4	181.5	161.0	189.8	270.7	613.9
G40.0	1585.1	1325.6	1096.9	586.1	257.7	176.3	156.6	184.1	262.4	605.0
G41.0	1585.3	1348.2	1113.2	575.5	250.6	171.7	152.1	178.1	254.8	594.3
G42.0	1597.6	1369.4	1123.7	563.8	243.1	166.8	148.4	173.1	246.2	585.2
G43.0	1595.1	1387.4	1129.1	554.5	236.3	161.8	144.1	168.1	239.5	573.6
G44.0	1592.5	1390.5	1131.8	546.1	229.7	157.5	139.9	163.4	232.8	560.0
G45.0	1614.4	1381.2	1128.9	536.8	223.7	153.3	136.7	158.8	226.3	548.5
G46.0	1646.6	1375.6	1121.0	522.2	217.2	149.1	134.4	154.5	219.5	535.5
G47.0	1663.4	1370.9	1113.8	510.8	211.9	144.3	133.3	150.1	213.9	524.1
G48.0	1703.9	1382.8	1109.5	495.5	206.9	140.0	132.3	145.7	208.4	507.1
G49.0	1755.3	1406.1	1108.4	481.2	202.1	135.8	131.0	141.3	203.4	493.4
G50.0	1785.8	1425.7	1111.2	472.1	197.1	131.6	129.5	136.4	198.0	483.0
G51.0	1800.5	1445.1	1127.6	459.5	192.1	127.5	127.3	131.9	193.5	469.0
G52.0	1805.1	1470.0	1148.1	444.3	187.8	123.9	125.1	128.0	189.2	456.2
G53.0	1816.7	1492.3	1161.8	430.4	183.3	121.0	123.5	124.6	184.9	443.7
G54.0	1815.4	1499.1	1157.2	416.3	178.8	118.1	121.1	121.3	179.8	432.5
G55.0	1817.0	1506.8	1143.8	399.1	173.4	115.2	118.8	118.1	175.0	421.2
G56.0	1845.5	1534.2	1129.6	386.6	168.8	110.2	115.8	113.7	170.1	405.6
G57.0	1906.3	1564.9	1118.5	376.0	163.6	106.6	110.3	110.1	165.8	392.3
G58.0	1943.7	1541.5	1115.7	360.5	159.0	103.1	106.8	106.5	160.2	379.1
G59.0	1947.4	1511.7	1123.1	344.8	153.6	99.6	103.5	103.3	155.4	364.4
G60.0	1916.5	1500.5	1127.1	332.1	148.9	96.2	98.6	99.4	150.9	349.7
G61.0	1899.8	1501.9	1133.8	319.8	144.1	90.4	92.1	93.6	146.4	333.8
G62.0	1920.3	1521.1	1130.1	304.3	139.4	86.7	88.6	89.2	141.6	319.9
G63.0	1950.0	1542.1	1111.1	290.8	134.4	82.8	82.8	85.1	137.1	306.3
G64.0	1991.2	1546.3	1083.8	277.3	129.6	76.8	78.2	78.5	132.9	292.8
G65.0	2010.6	1543.0	1064.0	265.2	125.1	72.2	72.9	73.6	128.3	277.9
G66.0	1979.7	1524.0	1060.6	250.6	120.3	68.5	65.5	69.4	123.5	262.6
G67.0	1931.8	1511.9	1067.6	236.4	115.8	62.5	58.5	63.3	119.1	250.8
G68.0	1884.5	1487.2	1089.5	223.5	110.8	58.7	54.1	59.2	114.8	234.5
G69.0	1852.5	1465.2	1110.2	209.7	106.2	51.8	47.9	52.3	110.1	221.1
G70.0	1854.8	1450.8	1106.3	196.3	101.5	47.9	40.8	46.5	104.9	208.6
G71.0	1864.1	1444.3	1074.5	185.8	96.5	42.3	33.2	42.1	100.6	196.3
G72.0	1868.5	1459.8	1032.3	176.1	92.1	37.6	22.0	37.2	96.4	183.8
G73.0	1883.8	1485.2	993.2	167.0	87.6	32.2	12.6	31.0	91.8	173.8

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G74.0	1883.4	1487.0	976.4	158.1	83.3	26.4	12.6	24.1	87.2	164.6
G75.0	1856.9	1441.7	982.0	151.0	78.6	18.8	13.0	16.7	82.9	156.7
G76.0	1798.0	1365.1	978.5	143.9	74.7	15.3	13.4	16.6	79.0	147.9
G77.0	1707.2	1329.9	958.5	137.2	70.5	15.1	13.5	16.2	74.6	140.3
G78.0	1687.6	1325.5	922.0	130.5	66.5	15.1	13.7	16.2	70.5	133.7
G79.0	1676.5	1318.3	876.2	124.4	62.2	15.0	13.9	16.3	66.8	127.3
G80.0	1643.8	1299.4	843.4	119.0	58.5	15.2	14.0	16.2	63.3	120.2
G81.0	1603.4	1260.8	814.3	114.1	55.3	15.2	14.3	16.0	60.4	113.9
G82.0	1550.1	1225.6	774.0	109.1	53.5	15.3	14.4	15.9	58.6	108.3
G83.0	1513.4	1199.4	751.8	104.0	52.2	15.1	14.7	16.0	57.3	103.2
G84.0	1498.0	1183.6	738.5	99.6	50.7	15.3	14.9	15.8	55.9	97.7
G85.0	1515.9	1187.9	711.3	95.3	49.6	15.4	15.2	15.9	54.7	93.4
G86.0	1547.1	1197.2	691.5	91.4	48.2	15.6	15.4	16.0	53.6	89.2
G87.0	1549.5	1184.2	661.3	87.4	47.5	15.6	15.5	16.2	52.7	85.5
G88.0	1517.5	1144.3	624.3	84.7	46.7	15.6	15.8	16.2	51.9	82.1
G89.0	1425.6	1122.9	600.8	82.3	45.8	15.7	16.1	16.4	51.0	80.0
G90.0	1358.3	1097.4	574.5	80.8	45.1	15.9	16.1	16.6	49.9	78.6
G91.0	1360.4	1042.6	543.2	79.7	44.3	15.9	16.3	17.0	49.0	77.7
G92.0	1376.6	986.3	515.4	79.1	43.4	16.1	16.4	17.0	48.0	77.2
G93.0	1293.9	958.5	499.0	78.7	42.9	16.4	16.6	17.5	47.1	77.2
G94.0	1253.4	924.5	467.1	78.5	42.0	16.5	16.6	17.7	46.1	77.1
G95.0	1251.8	868.7	436.4	78.5	41.0	16.7	16.8	18.0	45.5	77.2
G96.0	1180.4	844.9	408.8	78.2	40.5	17.1	17.0	17.8	44.7	77.9
G97.0	1107.7	791.3	389.1	78.0	39.8	17.1	17.0	17.6	43.8	77.8
G98.0	1089.2	754.5	376.4	77.8	39.1	17.5	17.2	17.4	43.0	78.2
G99.0	1029.9	727.9	351.3	77.9	38.7	17.8	17.4	17.4	42.3	78.5
G100.0	959.5	680.8	333.5	77.9	37.9	18.1	17.4	17.2	41.8	78.6
G101.0	887.8	642.0	326.9	77.5	37.4	18.5	17.3	17.3	41.0	78.6
G102.0	820.7	599.8	306.1	77.1	37.1	18.9	17.6	17.2	40.5	78.8
G103.0	756.9	567.9	291.0	76.9	36.5	18.7	17.7	17.1	40.0	78.4
G104.0	687.2	541.2	279.2	76.5	36.1	18.5	17.9	17.1	39.4	78.2
G105.0	620.6	513.1	265.7	76.0	35.8	18.5	17.9	17.1	38.9	77.7
G106.0	558.4	489.7	257.8	75.4	35.4	18.2	18.0	17.2	38.3	77.2
G107.0	501.0	468.2	247.2	74.6	34.7	18.1	18.0	17.1	38.0	76.8
G108.0	467.1	448.9	239.9	73.9	34.3	18.0	18.1	17.2	37.4	76.3
G109.0	436.6	434.7	233.3	73.0	33.9	17.7	18.3	17.1	36.9	75.5
G110.0	411.1	422.9	226.3	72.2	33.5	17.8	18.4	17.0	36.2	74.8

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	401.5	416.0	221.2	71.2	33.1	17.8	18.4	17.1	35.7	73.9
G112.0	394.3	405.1	217.6	70.3	32.6	17.8	18.2	17.2	35.0	72.9
G113.0	377.0	394.5	214.6	69.3	32.1	17.7	18.3	17.2	34.5	72.1
G114.0	364.1	388.4	211.7	68.3	31.7	17.6	18.3	17.1	33.9	71.1
G115.0	367.5	384.7	209.3	67.2	31.1	17.6	18.4	17.3	33.3	70.0
G116.0	372.9	382.7	206.9	66.1	30.6	17.7	18.6	17.3	32.4	68.8
G117.0	373.2	375.6	204.4	64.9	29.8	17.4	18.6	17.3	31.6	67.6
G118.0	374.0	367.5	202.1	64.0	28.6	17.4	18.6	17.2	30.3	66.2
G119.0	374.8	362.6	199.2	62.8	27.6	17.4	18.6	17.3	28.6	64.7
G120.0	374.4	360.7	196.8	61.3	26.2	17.4	18.4	17.3	27.1	63.3
G121.0	376.8	354.7	194.7	60.3	24.7	17.3	18.3	17.4	25.5	61.8
G122.0	377.9	348.8	193.5	58.9	23.2	17.3	18.3	17.4	23.8	60.4
G123.0	379.9	347.2	190.4	57.8	21.9	17.1	18.3	17.3	22.2	59.0
G124.0	378.2	344.2	187.3	56.4	20.6	17.1	18.3	17.2	20.9	57.6
G125.0	376.2	340.4	184.9	55.0	19.0	17.0	18.2	17.4	18.9	55.8
G126.0	378.1	338.1	182.8	53.5	16.9	17.0	18.0	17.3	16.6	54.3
G127.0	383.1	336.0	181.1	52.3	15.9	17.0	18.2	17.2	16.0	52.7
G128.0	382.3	334.3	179.4	50.9	16.0	17.0	18.0	17.2	16.3	51.2
G129.0	373.1	329.7	177.1	49.5	16.2	17.0	18.0	17.2	16.9	49.6
G130.0	364.5	324.0	174.4	48.1	16.9	16.8	18.0	17.1	17.4	48.2
G131.0	363.1	319.1	171.7	46.7	17.5	16.9	18.1	17.1	18.0	46.8
G132.0	364.7	313.0	169.0	45.4	17.9	16.8	18.0	17.0	18.3	45.4
G133.0	361.1	308.0	166.8	43.5	18.4	16.6	17.9	16.9	18.6	43.8
G134.0	351.9	303.1	164.8	42.3	18.8	16.6	17.8	16.6	18.9	42.5
G135.0	342.0	298.1	163.1	40.9	18.9	16.5	17.7	16.6	19.3	40.7
G136.0	335.7	290.9	161.1	39.5	19.3	16.4	17.6	16.4	19.1	39.2
G137.0	332.3	284.8	159.0	38.2	19.5	16.4	17.5	16.4	19.1	37.7
G138.0	328.2	280.2	156.9	36.9	19.1	16.3	17.2	16.5	18.8	36.4
G139.0	324.6	276.5	154.6	35.4	18.8	16.1	17.2	16.4	18.5	34.7
G140.0	320.9	272.1	152.1	34.2	18.3	16.0	17.0	16.3	17.9	33.2
G141.0	311.0	263.9	148.9	33.0	17.9	15.9	17.0	16.1	17.1	31.8
G142.0	299.5	253.9	145.7	31.5	17.3	15.8	16.7	16.1	16.6	30.4
G143.0	289.7	244.7	141.6	30.1	16.8	15.6	16.7	15.8	16.2	28.8
G144.0	283.3	236.6	137.4	28.7	16.2	15.7	16.6	15.9	15.5	27.4
G145.0	278.0	229.0	132.7	27.5	15.9	15.5	16.3	15.7	15.0	26.1
G146.0	272.0	221.4	128.5	26.2	15.4	15.4	16.4	15.8	14.6	25.0
G147.0	265.7	213.8	123.5	24.7	15.1	15.3	16.2	15.6	14.4	23.4

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	258.1	208.9	117.7	23.4	14.7	15.2	15.8	15.4	14.0	22.4
G149.0	248.8	204.4	111.2	22.3	14.3	15.1	15.7	15.3	13.8	21.4
G150.0	240.4	198.1	104.5	21.2	14.0	15.0	15.6	15.0	13.3	20.3
G151.0	230.9	189.0	98.8	20.1	13.6	14.9	15.6	14.9	13.0	19.3
G152.0	220.3	179.0	92.8	19.3	13.3	14.6	15.3	14.8	12.8	18.3
G153.0	209.3	169.0	87.5	18.2	13.1	14.6	15.0	14.7	12.6	17.4
G154.0	198.1	158.8	80.7	17.2	12.9	14.4	14.9	14.6	12.4	16.3
G155.0	189.9	149.8	74.9	16.3	12.6	14.4	14.7	14.5	12.3	15.5
G156.0	184.0	142.2	69.0	15.3	12.4	14.3	14.6	14.4	12.1	14.6
G157.0	177.8	135.7	63.6	14.4	12.4	14.1	14.6	14.3	12.1	14.0
G158.0	167.6	125.4	57.6	13.7	12.3	14.0	14.4	14.2	11.9	13.4
G159.0	155.5	115.1	52.7	13.0	12.3	13.9	13.9	13.9	12.0	12.7
G160.0	143.3	106.6	47.2	12.3	12.1	13.5	13.9	14.0	11.9	12.3
G161.0	129.2	98.3	41.0	12.0	12.0	13.3	13.7	13.6	11.7	11.7
G162.0	116.2	89.0	33.9	11.6	12.1	13.1	13.7	13.6	11.6	11.4
G163.0	106.3	81.4	27.1	11.0	12.2	13.1	13.5	13.5	11.7	11.1
G164.0	96.5	74.0	20.8	10.7	12.0	12.8	13.2	13.5	11.7	10.8
G165.0	87.4	67.0	16.3	10.5	11.9	12.7	13.1	12.9	11.4	10.8
G166.0	77.6	59.5	12.1	10.7	11.8	12.6	13.0	12.8	11.4	10.9
G167.0	68.7	52.4	9.2	10.9	11.6	12.4	12.8	12.6	11.4	11.0
G168.0	59.7	45.7	9.2	10.8	11.7	12.4	12.5	12.6	11.2	11.1
G169.0	50.8	37.0	9.3	10.8	11.6	12.4	12.5	12.4	11.2	10.8
G170.0	43.5	27.8	9.4	11.0	11.5	12.5	12.2	12.3	11.2	10.9
G171.0	33.4	18.6	9.4	10.9	11.5	12.4	12.0	12.3	11.0	11.2
G172.0	21.8	12.1	9.6	11.0	11.4	12.0	11.9	12.3	11.0	11.1
G173.0	14.2	9.4	9.8	11.0	11.3	12.0	11.9	12.1	11.0	10.9
G174.0	9.9	9.6	9.9	11.1	11.2	11.9	11.6	12.1	11.0	11.1
G175.0	10.0	9.9	10.0	11.1	11.0	11.7	11.4	11.8	10.9	11.0
G176.0	10.2	9.9	10.1	11.1	11.0	11.5	11.1	11.7	10.7	11.0
G177.0	10.5	10.1	10.3	11.1	10.9	11.5	11.0	11.6	10.6	11.2
G178.0	10.6	10.1	10.5	11.1	10.8	11.3	10.9	11.5	10.6	11.1
G179.0	10.8	10.3	10.4	11.1	10.8	11.1	10.5	11.2	10.4	11.1
G180.0	10.9	10.5	10.5	11.0	10.8	10.9	10.6	11.1	10.4	10.8

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	880.7	879.8	851.1						
G1.0	906.0	916.5	918.6						
G2.0	924.1	937.0	948.1						
G3.0	937.0	940.1	951.7						
G4.0	940.2	985.8	1003.8						
G5.0	941.6	1044.3	1068.3						
G6.0	948.5	1091.8	1125.0						
G7.0	973.3	1138.2	1168.2						
G8.0	1009.7	1148.4	1178.0						
G9.0	1037.4	1161.9	1180.4						
G10.0	1051.8	1164.9	1190.5						
G11.0	1060.9	1176.4	1220.4						
G12.0	1079.8	1198.8	1249.0						
G13.0	1080.6	1221.9	1287.7						
G14.0	1074.4	1246.6	1320.8						
G15.0	1083.8	1277.0	1342.5						
G16.0	1089.1	1297.4	1338.3						
G17.0	1085.1	1309.3	1325.7						
G18.0	1076.4	1285.3	1330.8						
G19.0	1074.7	1267.6	1376.4						
G20.0	1073.0	1265.3	1428.8						
G21.0	1074.2	1290.9	1473.2						
G22.0	1085.5	1338.3	1498.8						
G23.0	1090.6	1367.9	1472.0						
G24.0	1086.5	1387.9	1449.8						
G25.0	1090.6	1390.9	1445.5						
G26.0	1105.4	1370.1	1463.5						
G27.0	1116.6	1357.7	1517.3						
G28.0	1126.3	1358.4	1557.3						
G29.0	1116.6	1362.8	1578.1						
G30.0	1108.1	1381.9	1587.9						
G31.0	1112.8	1401.3	1570.8						
G32.0	1106.3	1422.2	1541.6						
G33.0	1098.3	1437.8	1528.1						
G34.0	1092.9	1431.8	1546.3						
G35.0	1095.8	1420.6	1568.4						
G36.0	1100.0	1399.5	1590.6						

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	1107.0	1384.6	1603.1						
G38.0	1115.6	1371.8	1600.1						
G39.0	1124.9	1365.1	1598.9						
G40.0	1134.8	1381.5	1585.1						
G41.0	1143.3	1404.4	1585.3						
G42.0	1147.4	1428.0	1597.6						
G43.0	1150.7	1429.2	1595.1						
G44.0	1148.2	1413.2	1592.5						
G45.0	1145.6	1408.2	1614.4						
G46.0	1140.5	1402.0	1646.6						
G47.0	1135.5	1400.5	1663.4						
G48.0	1130.8	1420.3	1703.9						
G49.0	1138.8	1441.2	1755.3						
G50.0	1147.9	1455.8	1785.8						
G51.0	1166.3	1463.0	1800.5						
G52.0	1176.3	1470.3	1805.1						
G53.0	1173.8	1484.4	1816.7						
G54.0	1160.8	1505.2	1815.4						
G55.0	1148.6	1537.7	1817.0						
G56.0	1139.8	1567.1	1845.5						
G57.0	1138.8	1565.3	1906.3						
G58.0	1148.3	1548.0	1943.7						
G59.0	1168.8	1536.0	1947.4						
G60.0	1180.6	1520.9	1916.5						
G61.0	1166.0	1531.7	1899.8						
G62.0	1133.7	1554.0	1920.3						
G63.0	1106.5	1570.3	1950.0						
G64.0	1104.2	1567.4	1991.2						
G65.0	1113.9	1544.3	2010.6						
G66.0	1128.7	1514.7	1979.7						
G67.0	1141.9	1487.2	1931.8						
G68.0	1153.7	1457.2	1884.5						
G69.0	1126.7	1435.7	1852.5						
G70.0	1091.1	1409.1	1854.8						
G71.0	1056.4	1392.9	1864.1						
G72.0	1026.1	1412.7	1868.5						
G73.0	1028.9	1436.8	1883.8						

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G74.0	1035.2	1433.7	1883.4						
G75.0	1016.5	1370.0	1856.9						
G76.0	993.4	1305.7	1798.0						
G77.0	954.6	1280.8	1707.2						
G78.0	917.2	1275.7	1687.6						
G79.0	886.2	1259.2	1676.5						
G80.0	880.6	1233.1	1643.8						
G81.0	857.8	1206.7	1603.4						
G82.0	808.6	1169.1	1550.1						
G83.0	777.5	1142.8	1513.4						
G84.0	749.5	1137.8	1498.0						
G85.0	717.0	1150.5	1515.9						
G86.0	693.5	1157.5	1547.1						
G87.0	670.0	1133.9	1549.5						
G88.0	648.4	1100.7	1517.5						
G89.0	617.2	1069.1	1425.6						
G90.0	582.1	1030.7	1358.3						
G91.0	560.2	1001.7	1360.4						
G92.0	541.1	975.3	1376.6						
G93.0	503.7	945.1	1293.9						
G94.0	471.0	913.5	1253.4						
G95.0	436.9	859.6	1251.8						
G96.0	421.5	823.1	1180.4						
G97.0	412.1	779.9	1107.7						
G98.0	386.6	741.9	1089.2						
G99.0	377.7	704.2	1029.9						
G100.0	355.1	665.0	959.5						
G101.0	331.9	626.3	887.8						
G102.0	326.6	587.1	820.7						
G103.0	303.4	559.5	756.9						
G104.0	290.9	528.7	687.2						
G105.0	281.0	495.5	620.6						
G106.0	269.0	468.8	558.4						
G107.0	259.5	449.8	501.0						
G108.0	251.2	434.0	467.1						
G109.0	241.5	420.8	436.6						
G110.0	232.9	409.1	411.1						

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G111.0	227.5	397.6	401.5						
G112.0	224.5	385.2	394.3						
G113.0	221.3	379.6	377.0						
G114.0	217.7	379.5	364.1						
G115.0	215.1	375.1	367.5						
G116.0	212.7	368.3	372.9						
G117.0	209.3	364.0	373.2						
G118.0	206.4	361.0	374.0						
G119.0	203.5	357.4	374.8						
G120.0	200.9	354.8	374.4						
G121.0	198.0	352.0	376.8						
G122.0	195.8	348.5	377.9						
G123.0	193.9	346.7	379.9						
G124.0	191.8	345.7	378.2						
G125.0	189.2	342.3	376.2						
G126.0	186.8	339.5	378.1						
G127.0	183.3	337.0	383.1						
G128.0	180.7	331.8	382.3						
G129.0	179.3	322.8	373.1						
G130.0	178.2	316.5	364.5						
G131.0	176.0	312.2	363.1						
G132.0	172.9	308.0	364.7						
G133.0	170.9	304.8	361.1						
G134.0	169.1	300.8	351.9						
G135.0	166.5	296.0	342.0						
G136.0	163.6	294.5	335.7						
G137.0	160.9	293.3	332.3						
G138.0	158.3	290.2	328.2						
G139.0	154.7	286.3	324.6						
G140.0	151.3	279.0	320.9						
G141.0	148.3	265.9	311.0						
G142.0	144.0	249.9	299.5						
G143.0	139.1	238.4	289.7						
G144.0	134.6	230.6	283.3						
G145.0	130.2	225.5	278.0						
G146.0	125.3	223.2	272.0						
G147.0	120.1	222.5	265.7						

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	114.6	219.1	258.1							
G149.0	108.5	212.0	248.8							
G150.0	102.9	199.9	240.4							
G151.0	98.6	186.7	230.9							
G152.0	93.2	174.6	220.3							
G153.0	87.6	166.0	209.3							
G154.0	81.9	159.5	198.1							
G155.0	75.3	152.6	189.9							
G156.0	70.0	146.2	184.0							
G157.0	64.7	139.8	177.8							
G158.0	59.0	128.7	167.6							
G159.0	54.0	115.5	155.5							
G160.0	48.4	106.2	143.3							
G161.0	42.7	97.5	129.2							
G162.0	35.6	88.5	116.2							
G163.0	28.9	80.9	106.3							
G164.0	22.4	73.2	96.5							
G165.0	17.6	66.1	87.4							
G166.0	13.5	58.7	77.6							
G167.0	9.5	51.0	68.7							
G168.0	9.9	45.1	59.7							
G169.0	9.9	36.1	50.8							
G170.0	9.9	26.5	43.5							
G171.0	10.0	17.8	33.4							
G172.0	10.1	12.0	21.8							
G173.0	10.2	9.7	14.2							
G174.0	10.3	9.8	9.9							
G175.0	10.4	10.0	10.0							
G176.0	10.4	10.1	10.2							
G177.0	10.5	10.1	10.5							
G178.0	10.5	10.4	10.6							
G179.0	10.7	10.6	10.8							
G180.0	10.8	10.8	10.9							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.967 m
 Humidity:
 Inspector: