

Report No.:

Test Time: 2016-12-01 19:08

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: WM25W27V50KDF

Voltage: 121.0 V

Power: 24.60 W

Lamp Catalog: L130-5070-N档

Current: 0.204 A

Power Factor: 0.995

## Photometric Results

CIE Class: Direct

Measurement Flux: 2624.5 lm

Downward Ratio: 92%

Horizontal Diffuse Angle(10%,25%,50%,75%): H148,H120.6,H95.6,H74.6

Vertical Diffuse Angle(10%,25%,50%,75%): V168.4,V138.7,V114.9,V82.4

Luminaire Efficacy Rating (LER): 106.74

Max. Intensity: 1050.8 cd

S/MH(C0/C180): 1.23

Total Rated Lamp Lumens: 2624.5 lm

Efficiency: 100%

Upward Ratio: 8%

Central Intensity: 681.44 cd

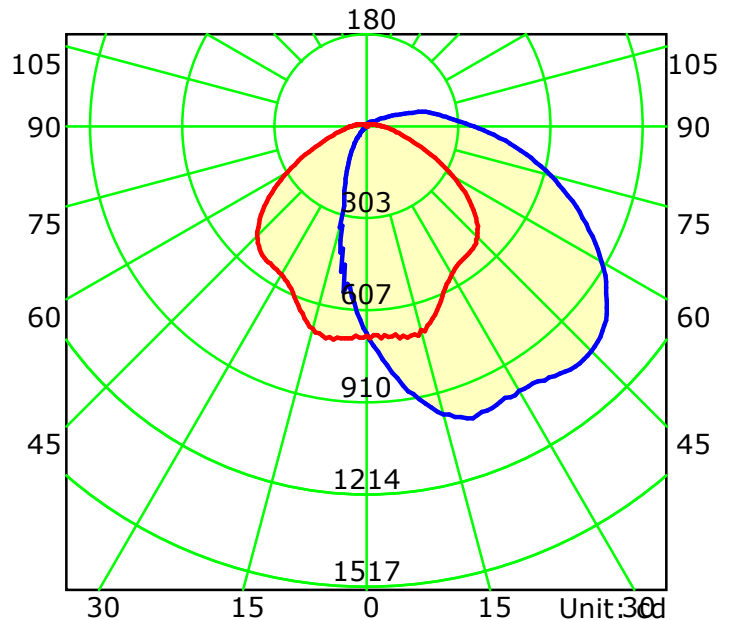
Pos of Max. Intensity: H0 V43

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 101.9°

— 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

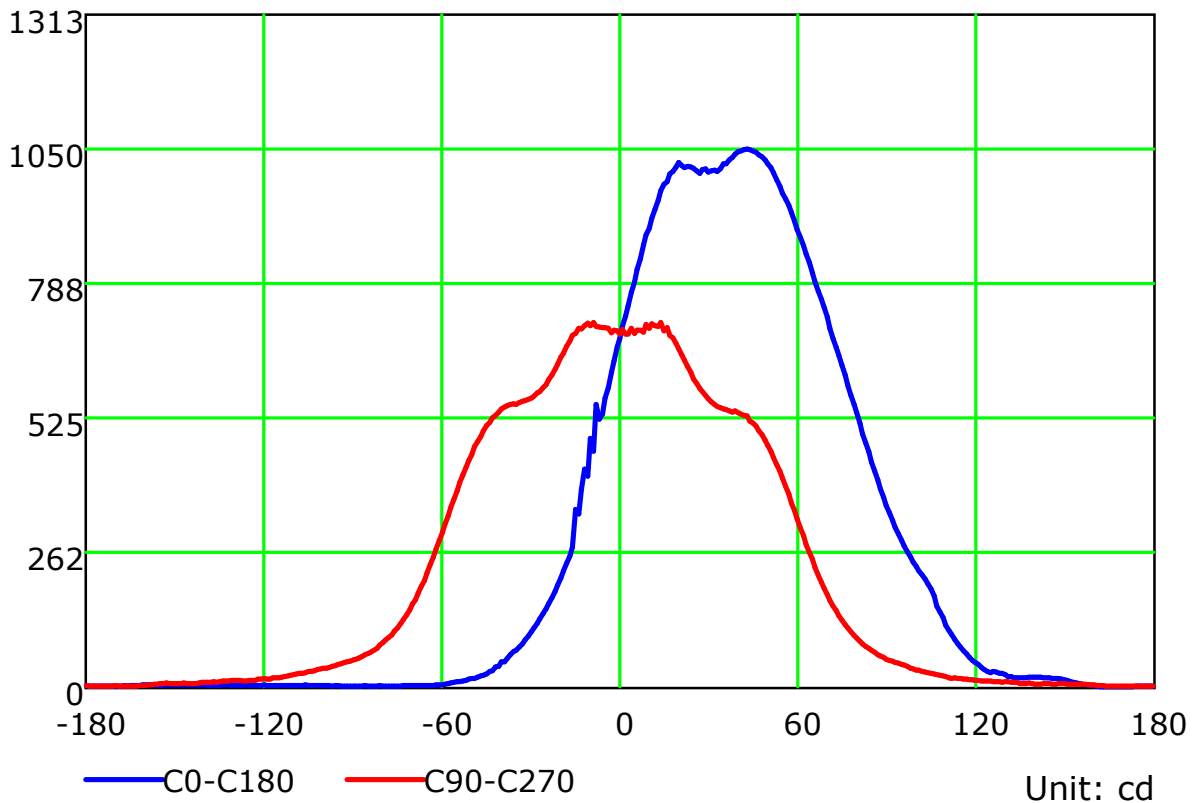
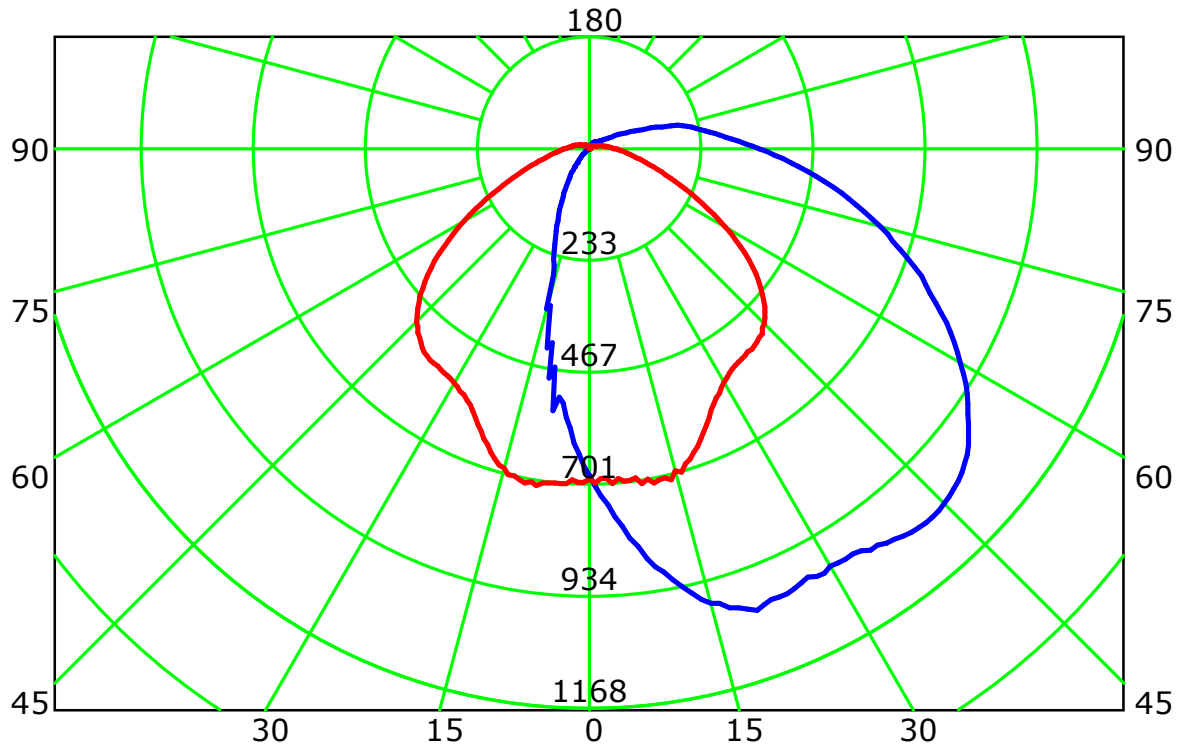
Test Device: GPM-1600

Distance: 8.567 m

Humidity:

Inspector:

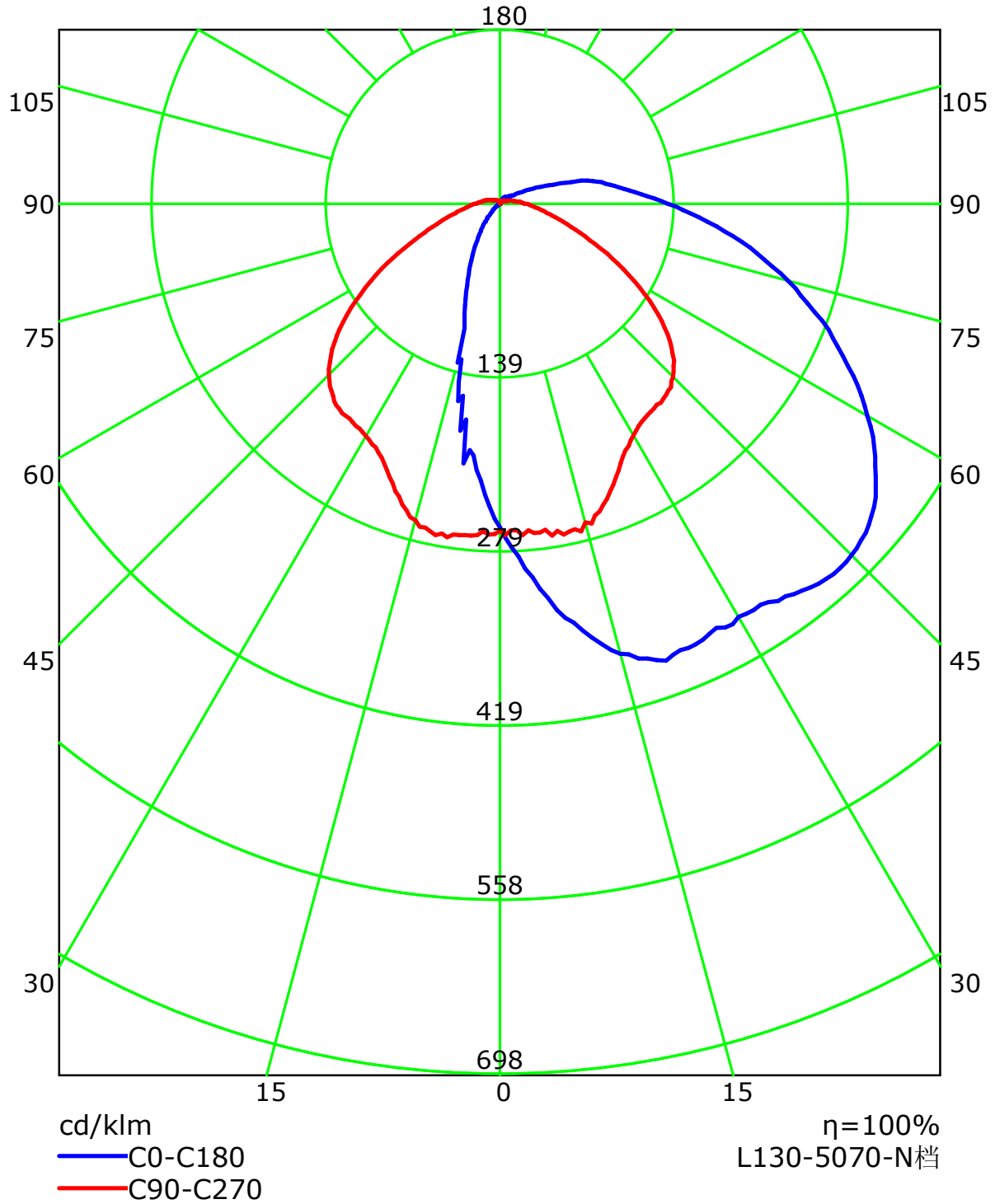
## Luminous Intensity Distribution Curve



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-1600  
Distance: 8.567 m  
Humidity:  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



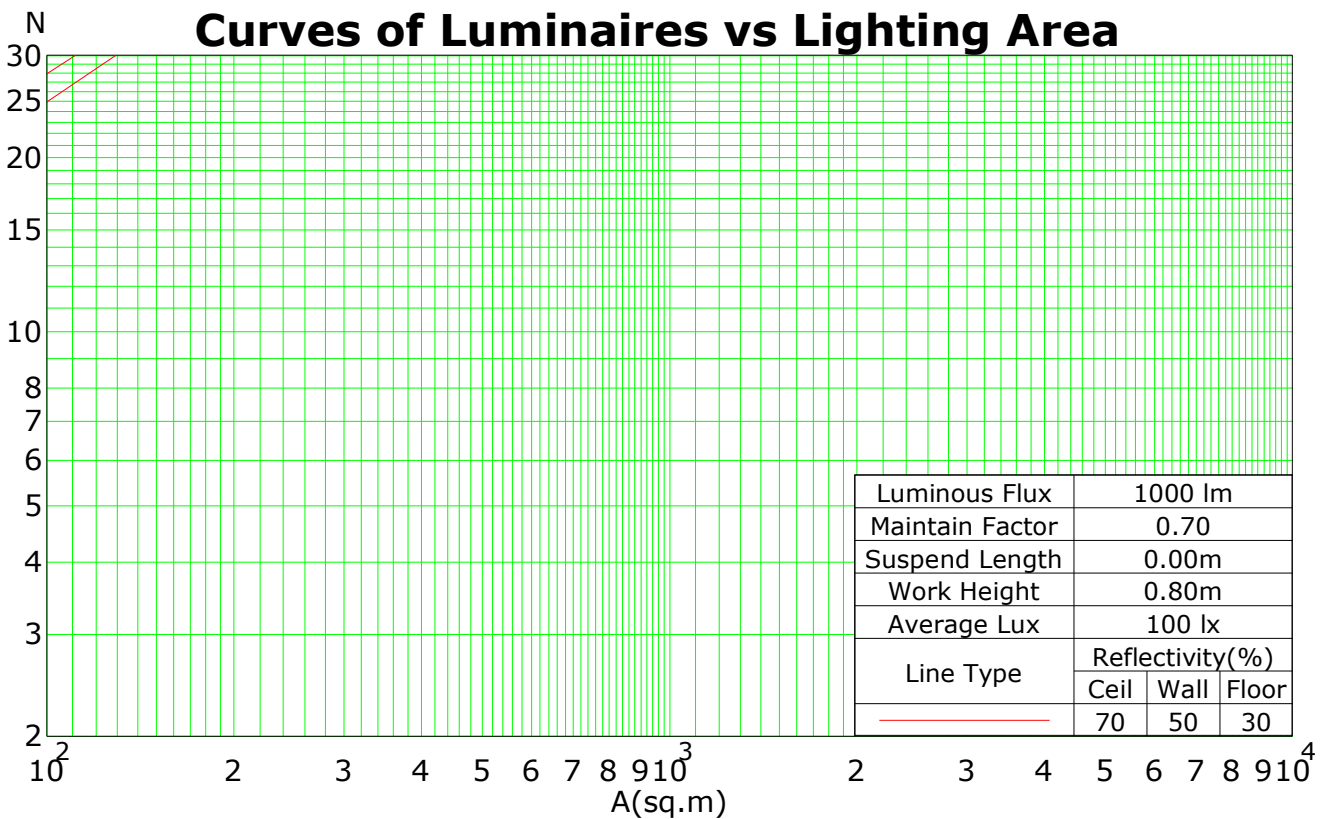
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600  
Distance: 8.567 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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	92
1	104	98	93	88	101	95	91	86	89	85	82	84	81	78	79	76	74	71
2	94	84	77	70	90	82	74	68	77	71	66	72	67	63	68	64	60	57
3	85	73	64	57	81	71	63	56	67	60	54	63	57	52	59	54	50	47
4	77	64	55	47	74	62	53	47	59	51	45	55	49	44	52	47	42	39
5	71	57	47	40	68	55	46	40	52	44	38	49	43	37	47	41	36	34
6	65	51	42	35	63	50	41	34	47	39	33	44	38	32	42	36	31	29
7	60	46	37	30	58	45	36	30	43	35	29	40	34	28	38	32	28	25
8	56	42	33	27	54	41	32	27	39	31	26	37	30	25	35	29	25	23
9	52	38	30	24	50	37	29	24	36	28	23	34	27	23	32	26	22	20
10	49	35	27	22	47	34	27	21	33	26	21	31	25	20	30	24	20	18

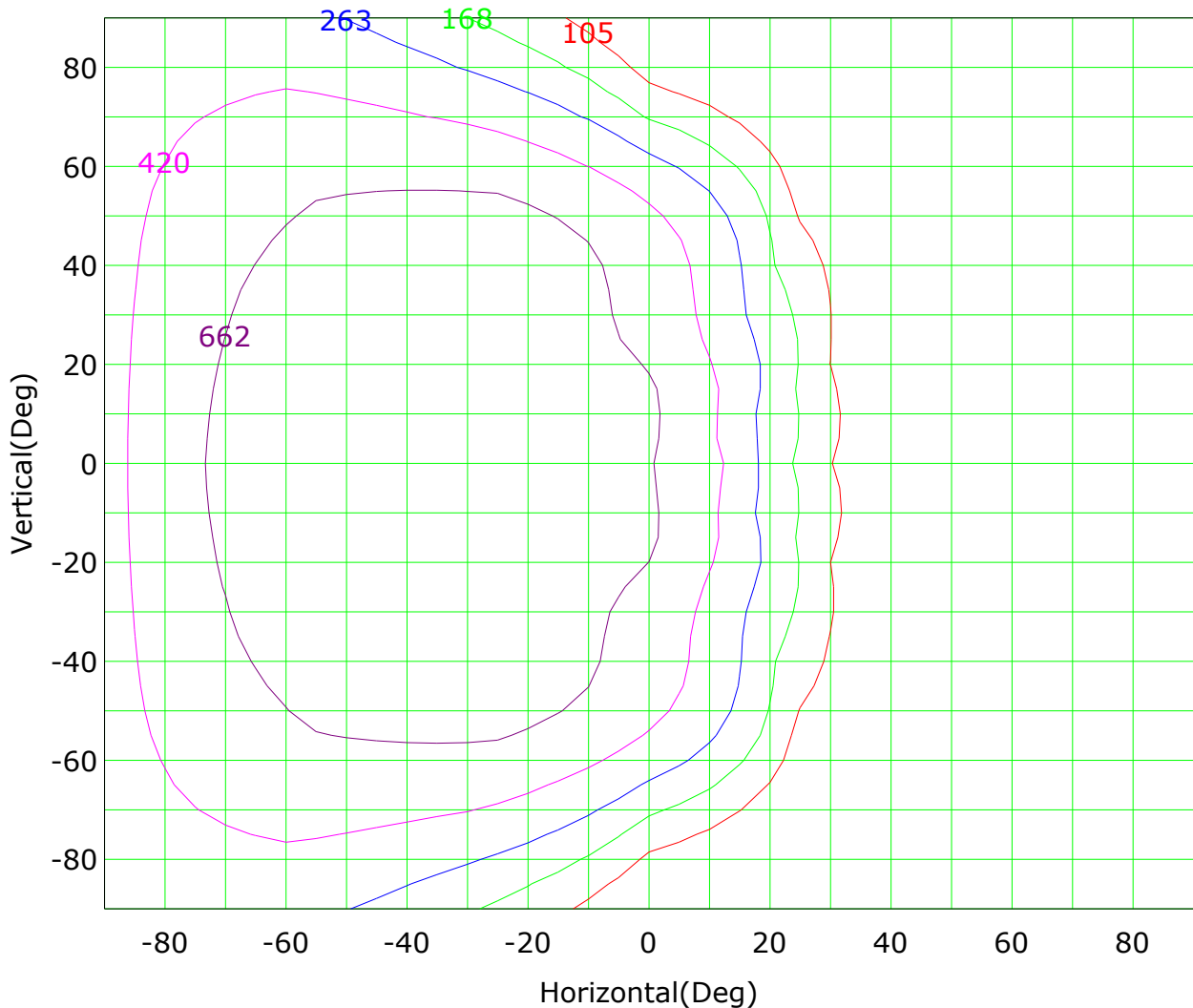
Spacing Criteria (0-180): 1.23  
 Spacing Criteria (90-270): 1.23  
 Spacing Criteria (Diagonal): 1.46



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-1600  
 Distance: 8.567 m  
 Humidity:  
 Inspector:

## Isocandela (rectangle)



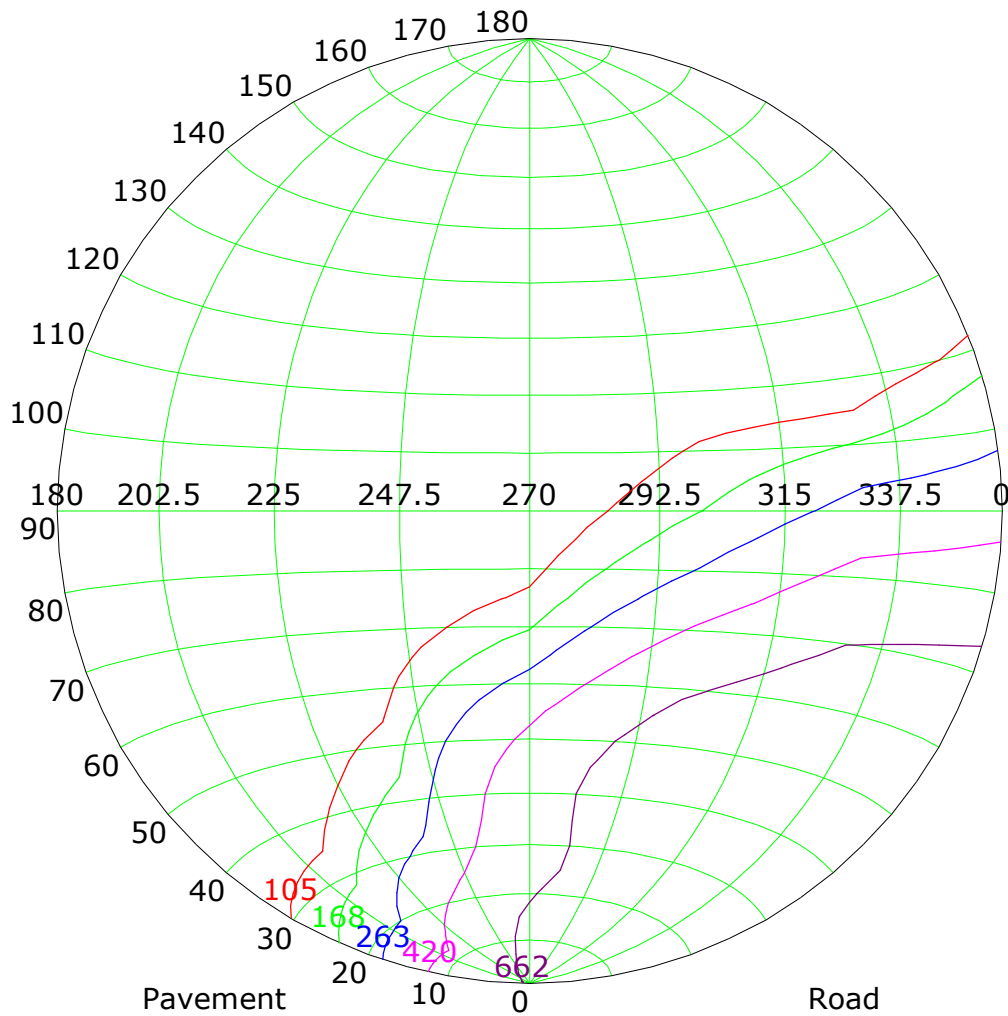
Imax (100%): 1051 cd

( 10%): 105 cd	( 16%): 168 cd
( 25%): 263 cd	( 40%): 420 cd
( 63%): 662 cd	(100%): 1051 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-1600  
Distance: 8.567 m  
Humidity:  
Inspector:

## Isocandela (sphere)



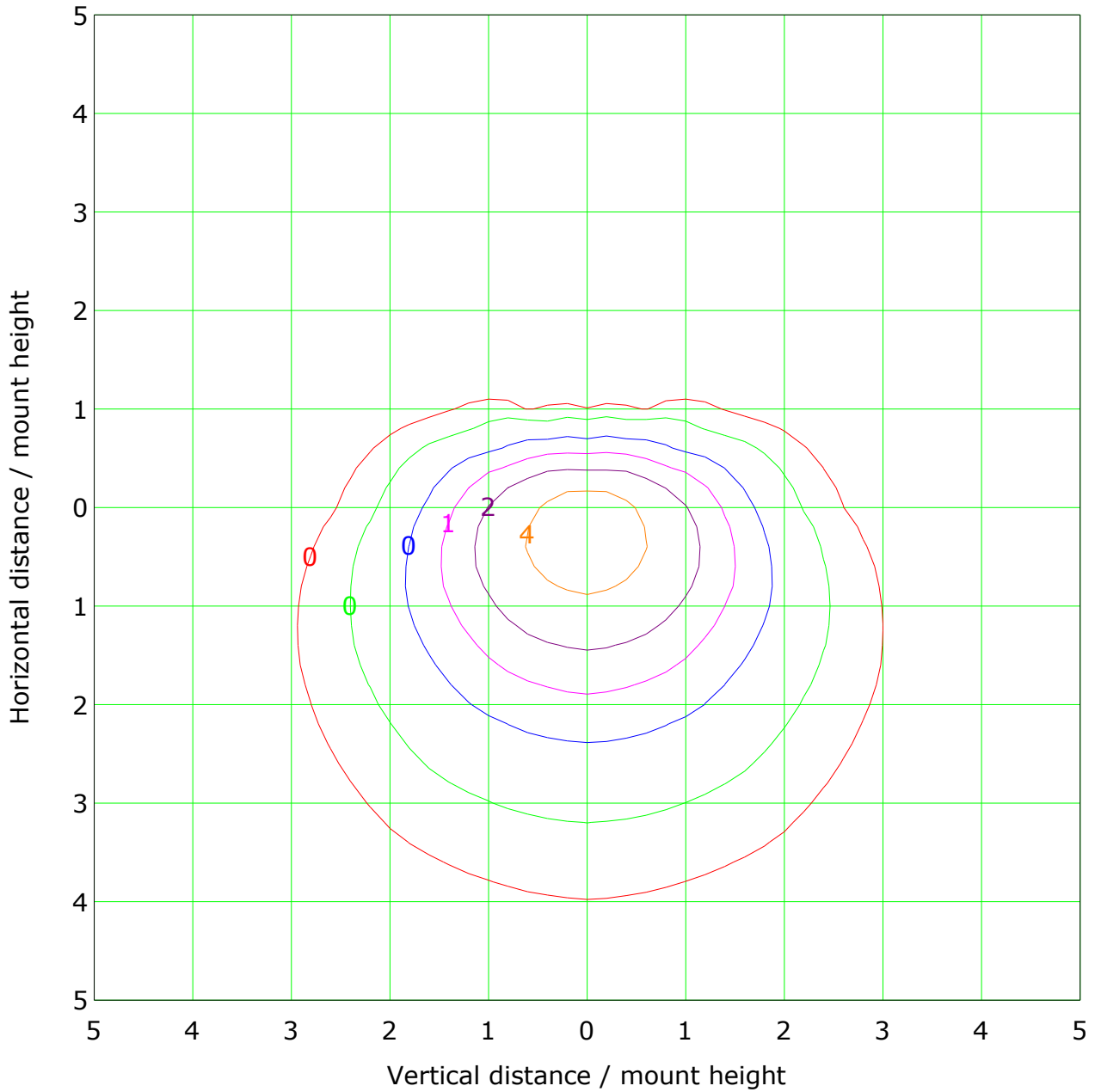
Imax (100%): 1051 cd

( 10%): 105 cd	( 16%): 168 cd
( 25%): 263 cd	( 40%): 420 cd
( 63%): 662 cd	(100%): 1051 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-1600  
Distance: 8.567 m  
Humidity:  
Inspector:

# IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 8.9 lx

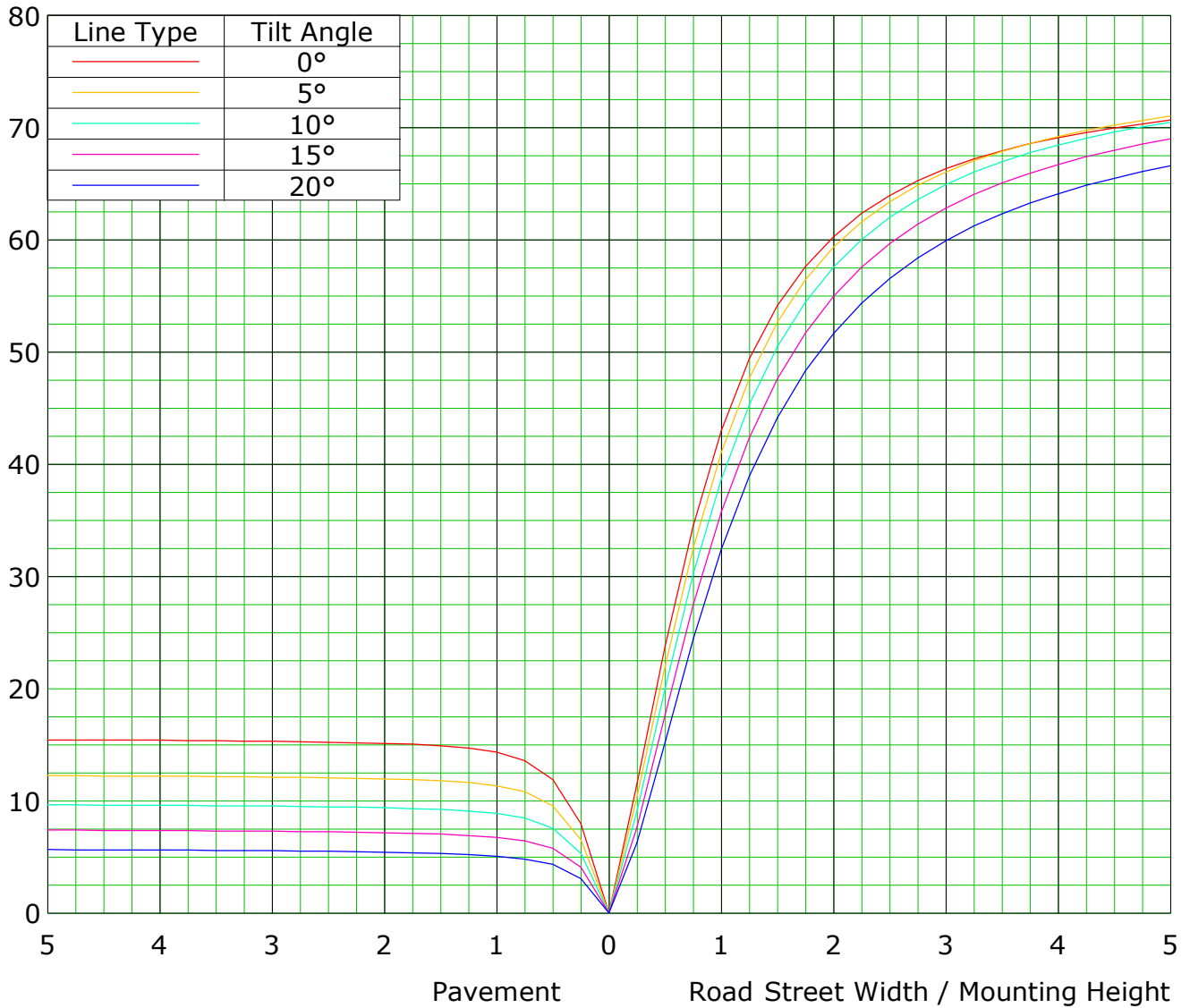
( 1%): 0.1 lx	( 2%): 0.2 lx
( 5%): 0.4 lx	( 10%): 0.9 lx
( 20%): 1.8 lx	( 50%): 4.4 lx
(100%): 8.9 lx	

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-1600  
Distance: 8.567 m  
Humidity:  
Inspector:

## Roadway CU Curve

Efficiency(%)



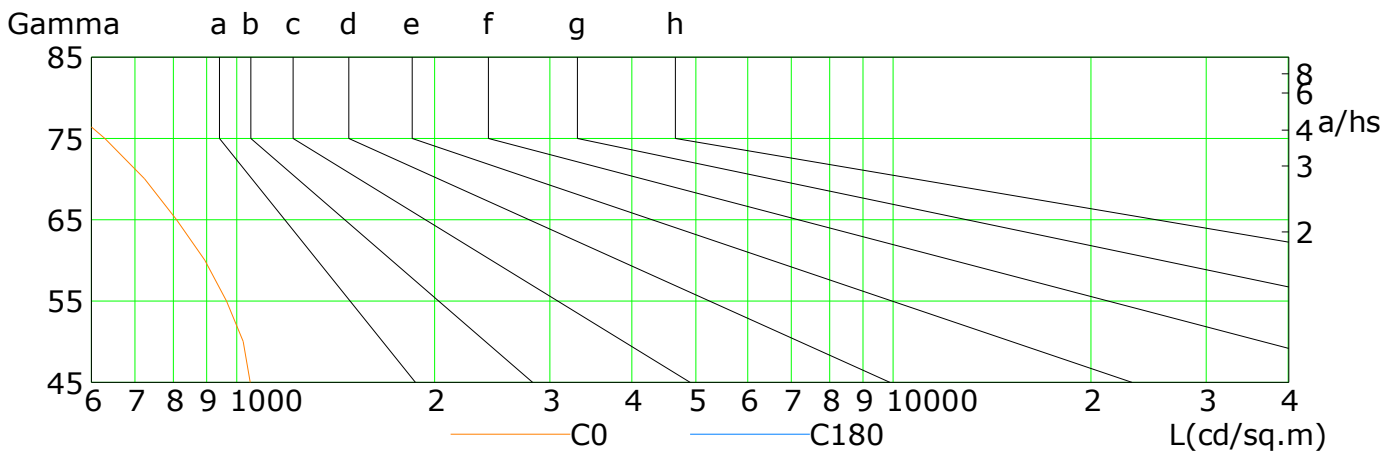
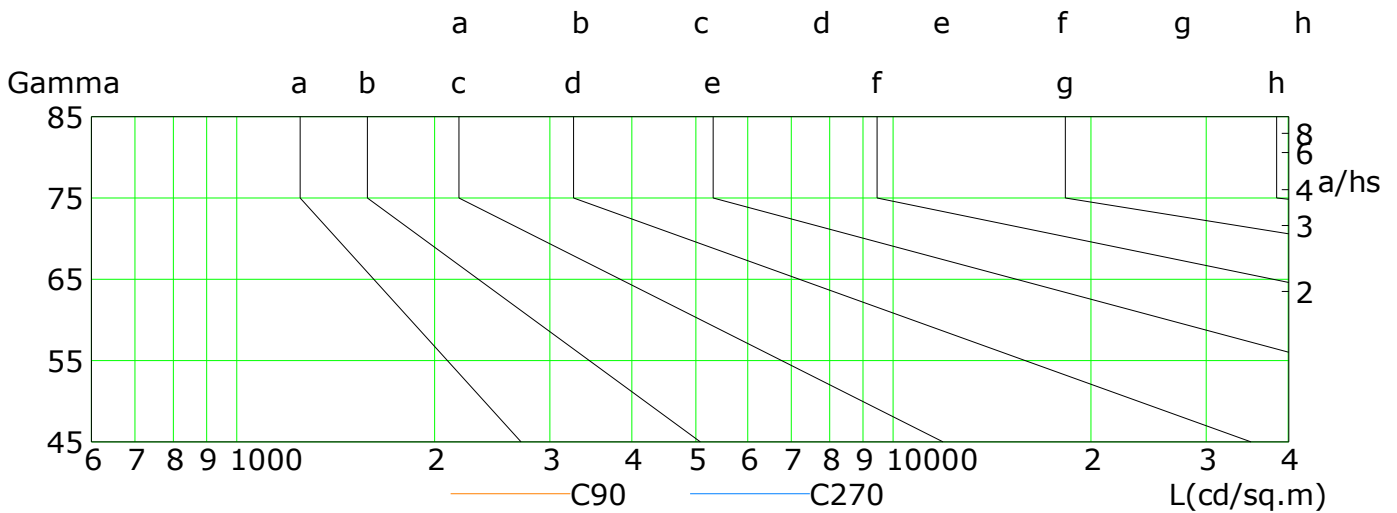
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600  
Distance: 8.567 m  
Humidity:  
Inspector:



## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

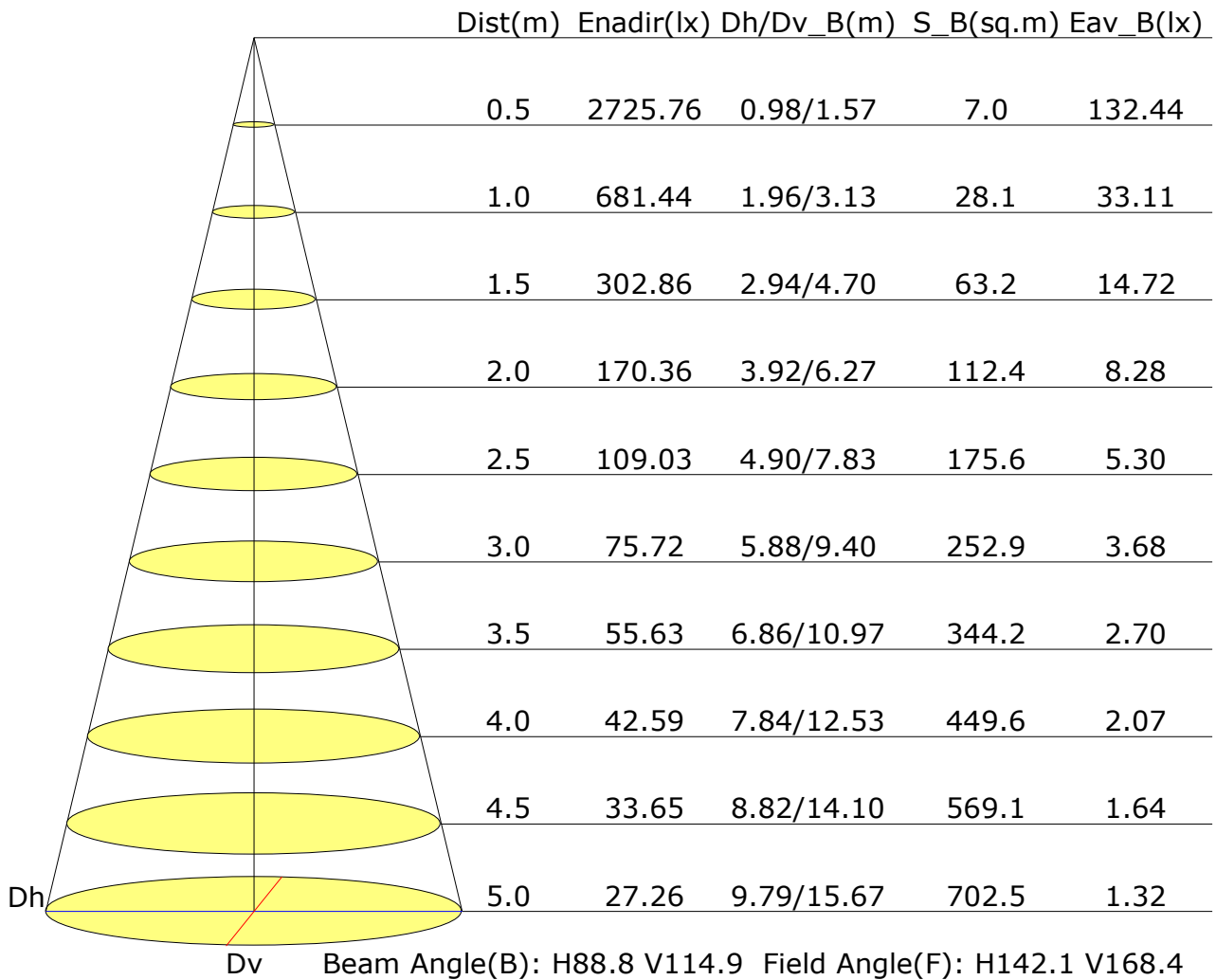


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1048	1022	965	894	809	723	629	536	440
C90	516	472	408	328	249	181	131	95	71
C180	26	17	10	5	3	3	2	2	2
C270	511	455	383	302	224	161	116	87	66

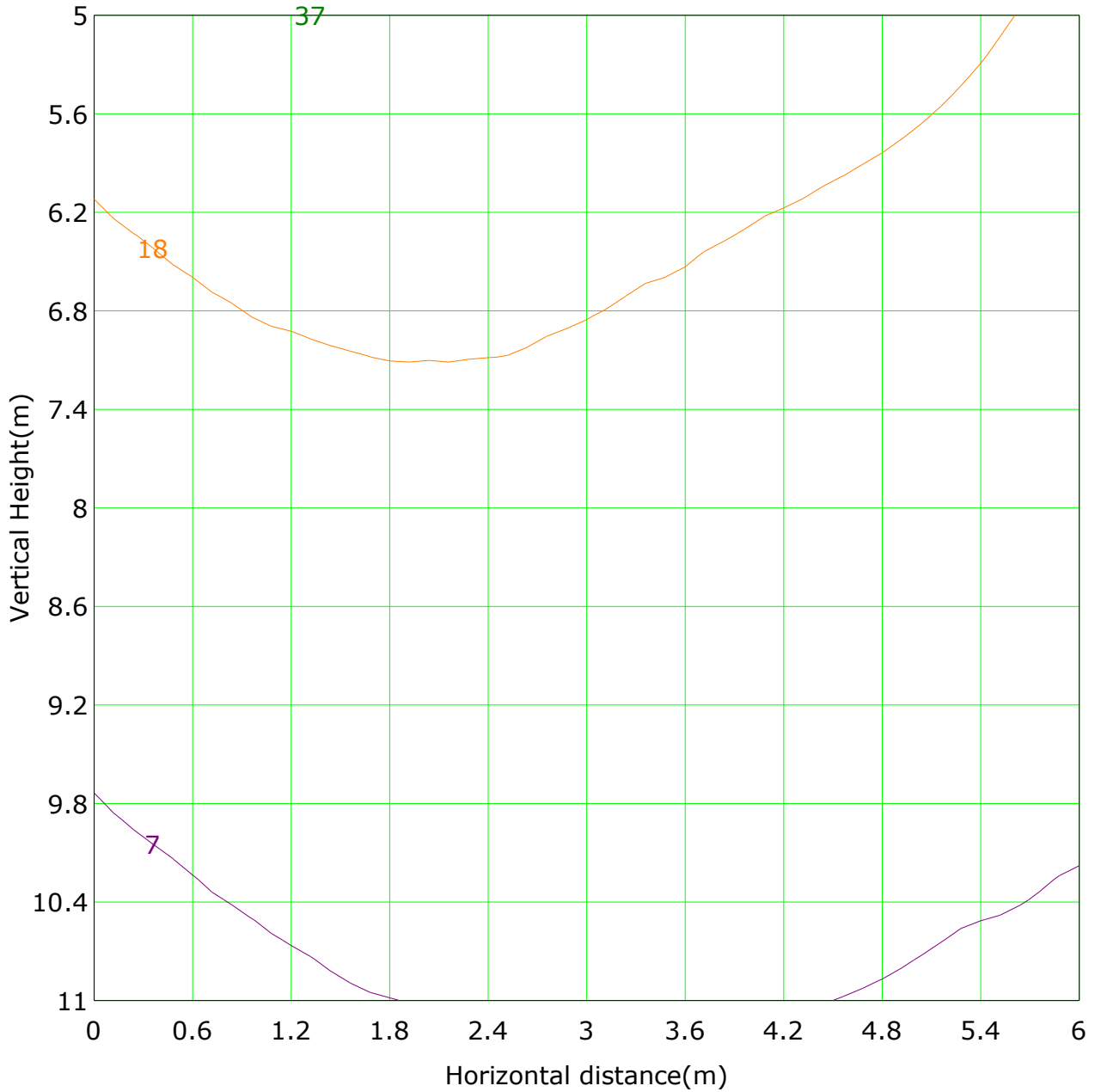
C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600  
 Distance: 8.567 m  
 Humidity:  
 Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 5.0m	Highest(m): 11.0m	Max Lux: 36.6 lx
( 1%): 0.4 lx	( 2%): 0.7 lx	
( 5%): 1.8 lx	( 10%): 3.7 lx	
( 20%): 7.3 lx	( 50%): 18.3 lx	
(100%): 36.6 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	0.1	0.1	0.3	0.6	0.9	1.4	1.8	2.8	4.1	5.1	5.8	6.0	5.6	4.4	2.8	0.9
Flux(E)	Flux(T)	0.0	0.0	0.0	0.1	0.1	0.3	0.6	0.9	1.4	1.8	2.8	4.1	5.1	5.8	6.0	5.6	4.4	2.8	0.9
0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.3	0.6	0.9	1.4	1.8	2.8	4.1	5.1	5.8	6.0	5.6	4.4	2.8	0.9
0.0	0.4	0.0	0.0	0.0	0.1	0.1	0.4	0.8	1.3	2.2	3.2	4.8	6.8	8.1	8.6	8.3	7.3	5.4	3.1	1.0
0.0	0.9	0.0	0.0	0.0	0.1	0.1	0.5	1.0	1.9	3.8	5.9	8.5	11.1	12.5	12.3	11.1	9.2	6.3	3.5	1.0
0.0	2.6	0.0	0.0	0.0	0.1	0.1	0.5	1.2	2.6	5.9	9.8	13.5	16.5	17.7	16.5	14.2	11.1	7.3	3.8	1.1
0.0	8.9	0.0	0.0	0.0	0.1	0.1	0.5	1.6	3.3	7.5	12.8	17.6	21.1	22.2	20.3	17.1	12.8	8.2	4.2	1.1
0.0	1.4	0.0	0.0	0.0	0.1	0.1	0.5	1.7	3.3	7.5	12.8	17.6	21.1	22.2	20.3	17.1	12.8	8.2	4.2	1.1
43.0	56.0	0.0	0.0	0.0	0.1	0.1	0.5	1.7	4.5	9.0	15.2	20.4	23.9	25.2	24.5	20.9	15.4	9.6	4.7	1.2
107.6	115.5	0.0	0.0	0.0	0.1	0.1	0.6	1.9	4.6	9.8	17.5	23.1	25.8	26.0	24.9	21.7	16.2	10.1	4.9	1.2
191.1	197.5	0.0	0.0	0.0	0.1	0.1	0.7	2.0	4.6	9.6	17.6	24.2	28.0	27.3	25.2	22.2	16.7	10.4	5.0	1.2
1267.1	1270.9	0.0	0.0	0.0	0.1	0.1	0.6	2.0	4.6	9.7	17.6	24.1	28.1	27.3	25.1	22.2	16.7	10.4	5.0	1.2
1323.9	1324.2	0.0	0.0	0.0	0.1	0.1	0.5	1.7	4.6	9.0	15.4	20.6	23.8	24.9	24.3	20.9	15.5	9.7	4.7	1.2
9340.1	9324.4	0.0	0.0	0.0	0.1	0.1	0.4	1.7	4.6	9.0	15.4	20.6	23.8	24.9	24.3	20.9	15.5	9.7	4.7	1.2
1324.4	1324.4	0.0	0.0	0.0	0.1	0.1	0.4	1.7	4.6	9.0	15.4	20.6	23.8	24.9	24.3	20.9	15.5	9.7	4.7	1.2
283.8	283.8	0.0	0.0	0.0	0.1	0.1	0.4	1.6	4.1	8.1	13.8	19.0	23.0	24.4	23.1	19.6	14.4	9.0	4.5	1.2
8218.3	8218.3	0.0	0.0	0.0	0.1	0.1	0.5	1.6	3.4	7.6	13.0	17.8	21.3	22.5	20.7	17.4	13.0	8.3	4.2	1.1
3141.9	3141.9	0.0	0.0	0.0	0.1	0.1	0.5	1.3	2.7	6.2	10.3	14.2	17.2	18.5	17.1	14.6	11.3	7.4	3.9	1.1
72.8	72.8	0.0	0.0	0.0	0.1	0.1	0.4	1.0	2.0	4.1	6.5	9.3	12.0	13.4	13.1	11.6	9.4	6.4	3.5	1.0
20.1	20.1	0.0	0.0	0.0	0.1	0.1	0.4	0.8	1.4	2.4	3.5	5.3	7.4	8.8	9.1	8.7	7.5	5.4	3.1	1.0
2335	2403	0.0	0.0	0.0	0.1	0.1	0.3	0.6	1.0	1.5	2.0	3.0	4.4	5.4	6.1	6.2	5.8	4.5	2.8	0.9

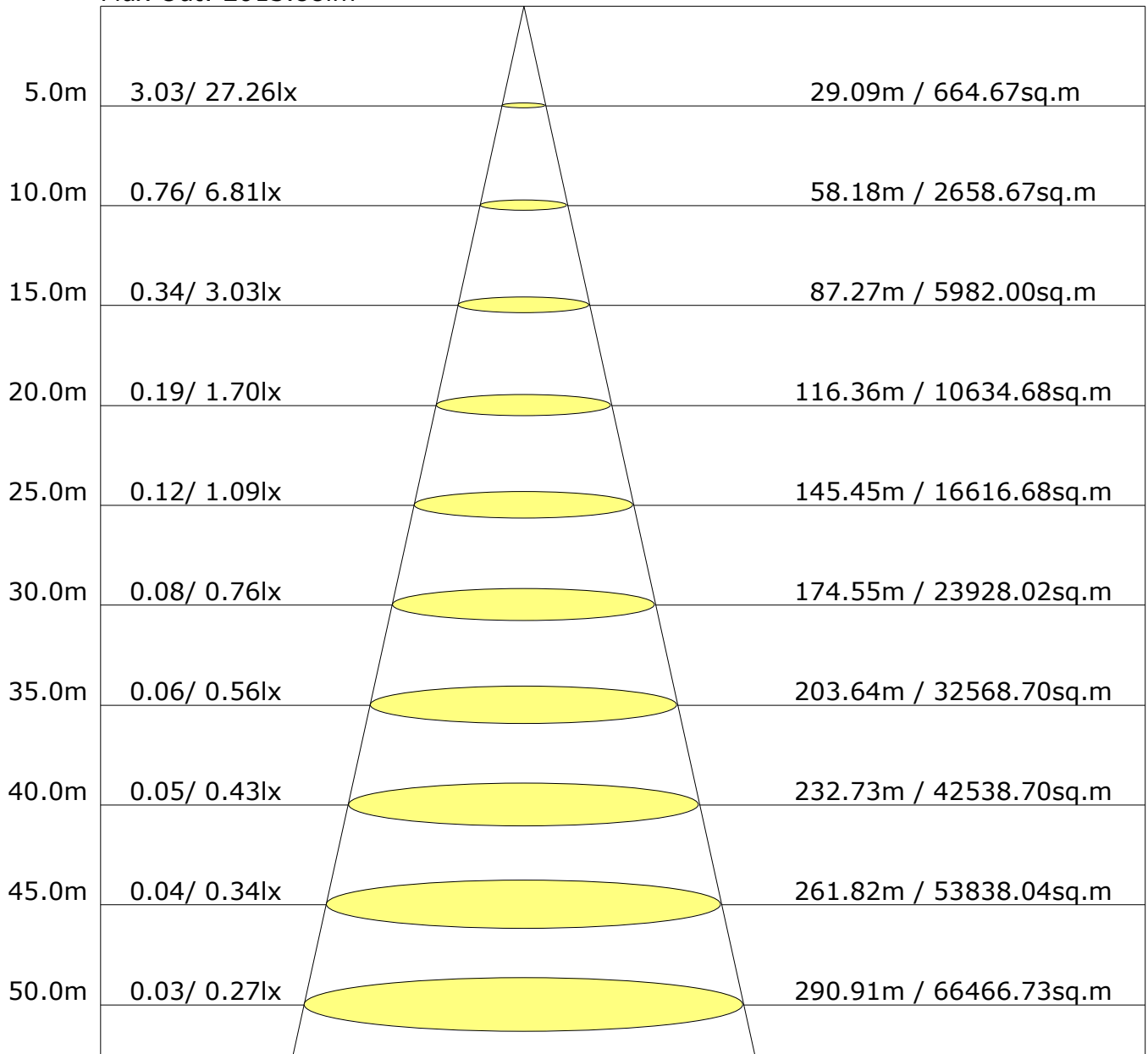
Horizontal plane

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-1600  
 Distance: 8.567 m  
 Humidity:  
 Inspector:

## The Average Illuminance Effective Figure

Flux Out: 2013.88lm



Height

Avg./Nadir. E

Beam Angle:142.1°

Diameter / Area

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

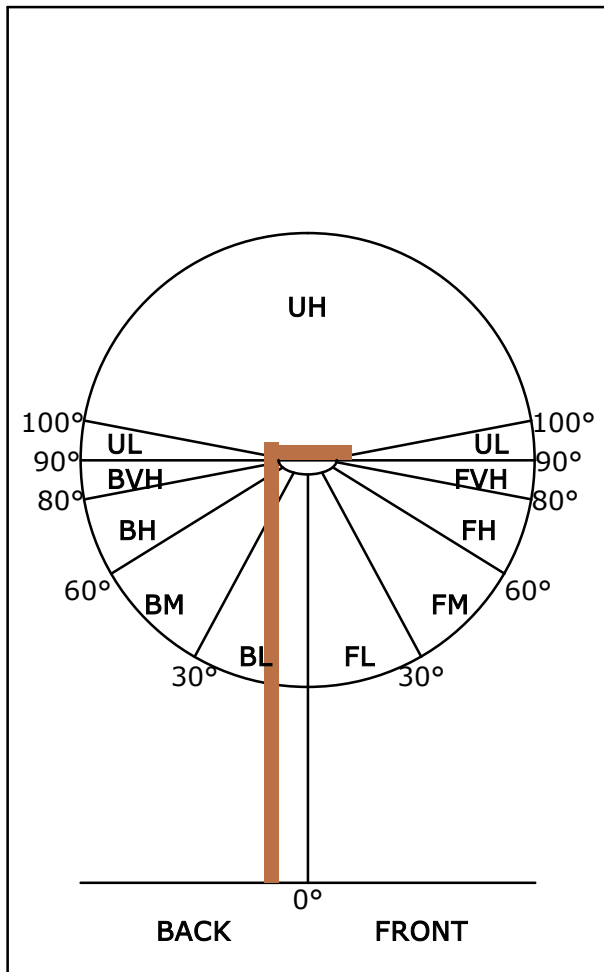
Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600  
 Distance: 8.567 m  
 Humidity:  
 Inspector:

## 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  $2624lm$  ( $8\log(F/F_0) = 3.4$ ).

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



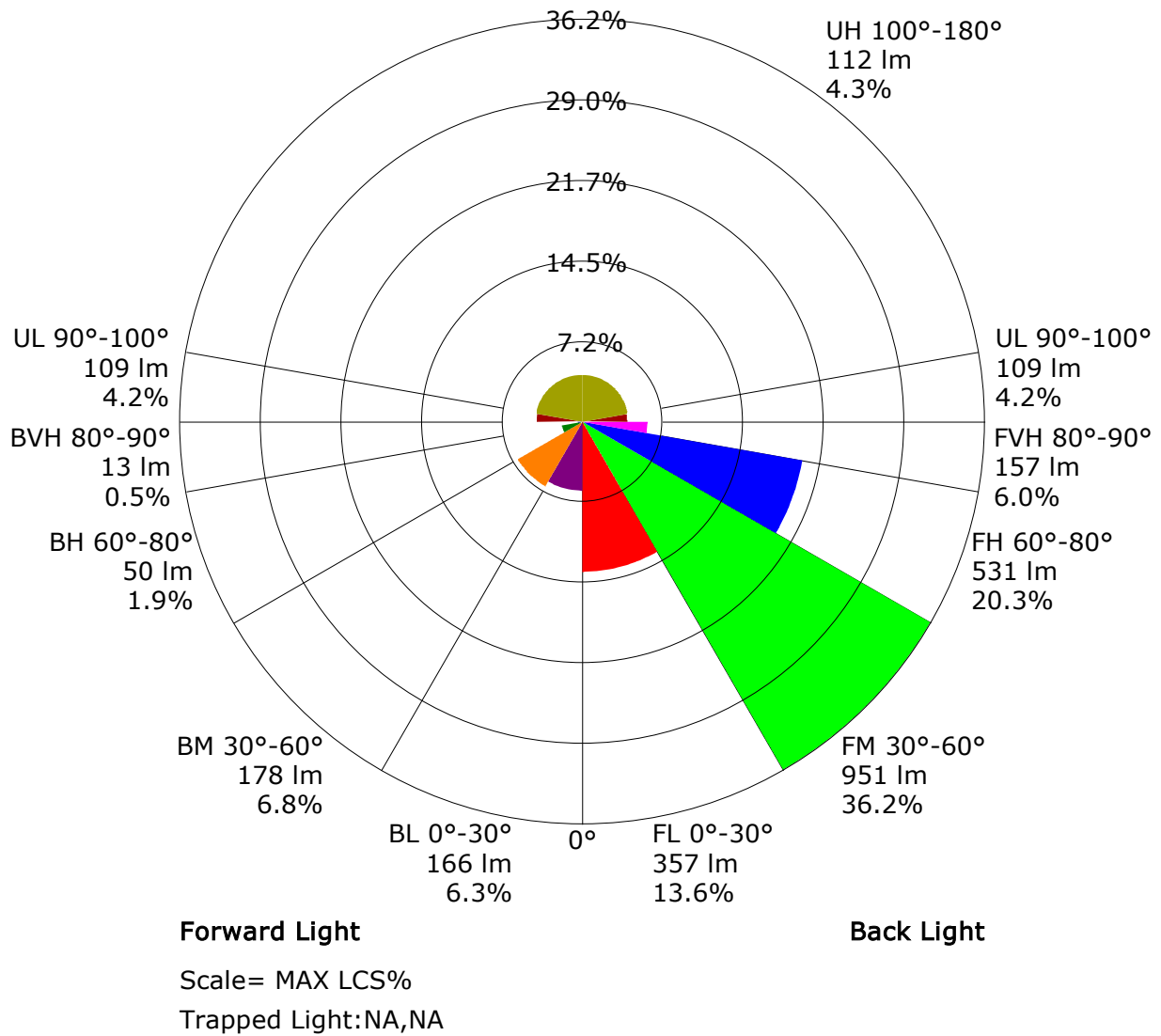
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1996	76.1
FL ( 0°-30°)	357	13.6
FM (30°-60°)	951	36.2
FH (60°-80°)	531	20.3
FVH (80°-90°)	157	6.0
BACK LIGHT	407	15.5
BL ( 0°-30°)	166	6.3
BM (30°-60°)	178	6.8
BH (60°-80°)	50	1.9
BVH (80°-90°)	13	0.5
UP LIGHT	221	8.4
UL (90°-100°)	109	4.2
UH (100°-180°)	112	4.3
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U5 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U5 G1

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600  
 Distance: 8.567 m  
 Humidity:  
 Inspector:

## 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	0.52	0.60	0.67	0.72	0.80	0.85	0.89	0.93	0.97	
	0.30		0.43	0.51	0.59	0.65	0.73	0.78	0.83	0.88	0.92	
	0.20		0.38	0.45	0.53	0.59	0.67	0.73	0.77	0.84	0.88	
0.50	0.50	0.20	0.49	0.57	0.64	0.68	0.75	0.80	0.83	0.88	0.91	
	0.30		0.42	0.49	0.57	0.62	0.69	0.75	0.78	0.84	0.87	
	0.20		0.37	0.44	0.51	0.57	0.64	0.70	0.74	0.80	0.84	
0.30	0.50	0.20	0.47	0.54	0.60	0.65	0.71	0.75	0.79	0.83	0.86	
	0.30		0.41	0.48	0.54	0.59	0.66	0.71	0.75	0.79	0.83	
	0.20		0.36	0.43	0.50	0.55	0.62	0.67	0.71	0.76	0.80	
0.00	0.00	0.00	0.33	0.39	0.46	0.50	0.57	0.62	0.65	0.70	0.74	
<p>Rating:25W Photometrically tested without ceiling board.            Multiply UF values by service correction factors            Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

## Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	1.03	0.89	0.76	0.68	0.55	0.47	0.41	0.33	0.27
	0.30		0.86	0.76	0.67	0.60	0.50	0.43	0.38	0.31	0.26
	0.20		0.74	0.66	0.59	0.54	0.46	0.40	0.35	0.29	0.24
0.50	0.50	0.20	0.98	0.84	0.72	0.64	0.52	0.47	0.39	0.31	0.26
	0.30		0.83	0.73	0.64	0.57	0.48	0.41	0.36	0.29	0.24
	0.20		0.72	0.64	0.57	0.52	0.44	0.38	0.34	0.28	0.23
0.30	0.50	0.20	0.93	0.80	0.68	0.60	0.49	0.42	0.36	0.29	0.24
	0.30		0.79	0.70	0.61	0.55	0.46	0.39	0.34	0.28	0.23
	0.20		0.70	0.63	0.55	0.50	0.42	0.37	0.32	0.27	0.22
0.00	0.00	0.00	0.59	0.53	0.46	0.41	0.35	0.30	0.26	0.22	0.18
<p>Rating:25W Photometrically tested without ceiling board.            Multiply UF values by service correction factors            Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

## Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.25	0.26	0.27	0.28	0.29	0.29	0.29	0.30	0.30
	0.30		0.18	0.19	0.21	0.21	0.23	0.24	0.25	0.26	0.27
	0.20		0.13	0.14	0.15	0.17	0.18	0.20	0.21	0.23	0.24
0.50	0.50	0.20	0.24	0.25	0.26	0.27	0.27	0.28	0.28	0.29	0.29
	0.30		0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26
	0.20		0.12	0.14	0.15	0.16	0.18	0.19	0.21	0.22	0.23
0.30	0.50	0.20	0.23	0.24	0.25	0.26	0.26	0.27	0.27	0.27	0.28
	0.30		0.17	0.18	0.20	0.20	0.22	0.23	0.23	0.24	0.25
	0.20		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.22	0.23
0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Rating:25W Photometrically tested without ceiling board.  
 Multiply UF values by service correction factors  
 Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	689.9	0.7	0.7	0.03	0.03
1.0-2.0	692.6	2.0	2.6	0.08	0.10
2.0-3.0	691.2	3.3	6.0	0.13	0.23
3.0-4.0	690.0	4.6	10.6	0.18	0.40
4.0-5.0	689.2	5.9	16.5	0.23	0.63
5.0-6.0	688.1	7.2	23.7	0.28	0.90
6.0-7.0	689.1	8.6	32.3	0.33	1.23
7.0-8.0	692.0	9.9	42.2	0.38	1.61
8.0-9.0	693.1	11.2	53.4	0.43	2.04
9.0-10.0	690.3	12.5	65.9	0.48	2.51
10.0-11.0	688.6	13.8	79.7	0.52	3.04
11.0-12.0	687.3	15.0	94.7	0.57	3.61
12.0-13.0	683.2	16.2	110.9	0.62	4.23
13.0-14.0	678.1	17.4	128.3	0.66	4.89
14.0-15.0	671.7	18.4	146.7	0.70	5.59
15.0-16.0	663.2	19.4	166.2	0.74	6.33
16.0-17.0	654.3	20.4	186.5	0.78	7.11
17.0-18.0	646.7	21.3	207.9	0.81	7.92
18.0-19.0	638.3	22.2	230.1	0.85	8.77
19.0-20.0	629.1	23.0	253.1	0.88	9.64
20.0-21.0	621.0	23.8	277.0	0.91	10.55
21.0-22.0	612.8	24.6	301.6	0.94	11.49
22.0-23.0	604.0	25.3	326.9	0.97	12.46
23.0-24.0	594.9	26.0	352.9	0.99	13.45
24.0-25.0	586.0	26.6	379.6	1.02	14.46
25.0-26.0	577.9	27.3	406.9	1.04	15.50
26.0-27.0	570.8	27.9	434.8	1.06	16.57
27.0-28.0	564.9	28.6	463.4	1.09	17.66
28.0-29.0	559.8	29.3	492.7	1.12	18.77
29.0-30.0	554.8	30.0	522.7	1.14	19.91
30.0-31.0	550.6	30.6	553.3	1.17	21.08
31.0-32.0	547.3	31.4	584.7	1.19	22.28
32.0-33.0	544.5	32.1	616.7	1.22	23.50
33.0-34.0	542.4	32.8	649.6	1.25	24.75
34.0-35.0	540.7	33.6	683.1	1.28	26.03
35.0-36.0	539.4	34.3	717.5	1.31	27.34

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-1600  
 Distance: 8.567 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 [%]
36.0-37.0	538.1	35.1	752.6	1.34	28.68
37.0-38.0	536.2	35.8	788.4	1.36	30.04
38.0-39.0	534.8	36.5	824.9	1.39	31.43
39.0-40.0	533.5	37.2	862.1	1.42	32.85
40.0-41.0	530.7	37.8	899.9	1.44	34.29
41.0-42.0	527.6	38.3	938.2	1.46	35.75
42.0-43.0	524.8	38.9	977.1	1.48	37.23
43.0-44.0	521.0	39.3	1016.5	1.50	38.73
44.0-45.0	516.8	39.7	1056.2	1.51	40.24
45.0-46.0	512.0	40.0	1096.2	1.53	41.77
46.0-47.0	506.4	40.3	1136.5	1.53	43.30
47.0-48.0	500.8	40.5	1177.0	1.54	44.85
48.0-49.0	494.8	40.6	1217.6	1.55	46.40
49.0-50.0	487.8	40.7	1258.3	1.55	47.95
50.0-51.0	480.4	40.6	1299.0	1.55	49.49
51.0-52.0	472.7	40.6	1339.5	1.55	51.04
52.0-53.0	463.9	40.4	1379.9	1.54	52.58
53.0-54.0	454.8	40.1	1420.0	1.53	54.11
54.0-55.0	445.5	39.8	1459.8	1.52	55.62
55.0-56.0	435.6	39.4	1499.1	1.50	57.12
56.0-57.0	425.7	38.9	1538.1	1.48	58.60
57.0-58.0	415.6	38.4	1576.5	1.46	60.07
58.0-59.0	405.3	37.9	1614.4	1.44	61.51
59.0-60.0	394.8	37.3	1651.7	1.42	62.93
60.0-61.0	384.0	36.7	1688.3	1.40	64.33
61.0-62.0	373.4	36.0	1724.3	1.37	65.70
62.0-63.0	362.6	35.3	1759.6	1.34	67.05
63.0-64.0	351.7	34.5	1794.1	1.32	68.36
64.0-65.0	340.8	33.7	1827.8	1.29	69.65
65.0-66.0	329.7	32.9	1860.7	1.25	70.90
66.0-67.0	318.9	32.1	1892.8	1.22	72.12
67.0-68.0	308.5	31.3	1924.1	1.19	73.31
68.0-69.0	298.6	30.5	1954.5	1.16	74.47
69.0-70.0	288.8	29.7	1984.2	1.13	75.60
70.0-71.0	278.6	28.8	2013.0	1.10	76.70
71.0-72.0	268.5	27.9	2040.9	1.06	77.77

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-1600  
 Distance: 8.567 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 [%]
72.0-73.0	258.7	27.1	2068.0	1.03	78.80
73.0-74.0	249.1	26.2	2094.2	1.00	79.79
74.0-75.0	239.8	25.3	2119.5	0.97	80.76
75.0-76.0	230.8	24.5	2144.0	0.93	81.69
76.0-77.0	221.8	23.7	2167.7	0.90	82.59
77.0-78.0	213.1	22.8	2190.5	0.87	83.46
78.0-79.0	204.5	22.0	2212.4	0.84	84.30
79.0-80.0	196.3	21.2	2233.6	0.81	85.11
80.0-81.0	188.4	20.4	2254.0	0.78	85.88
81.0-82.0	180.4	19.6	2273.6	0.75	86.63
82.0-83.0	172.4	18.7	2292.3	0.71	87.34
83.0-84.0	165.0	18.0	2310.3	0.68	88.03
84.0-85.0	157.9	17.2	2327.5	0.66	88.69
85.0-86.0	151.1	16.5	2344.0	0.63	89.31
86.0-87.0	144.5	15.8	2359.8	0.60	89.92
87.0-88.0	138.1	15.1	2375.0	0.58	90.49
88.0-89.0	132.0	14.5	2389.4	0.55	91.04
89.0-90.0	126.2	13.8	2403.3	0.53	91.57
90.0-91.0	120.8	13.2	2416.5	0.50	92.08
91.0-92.0	115.8	12.7	2429.2	0.48	92.56
92.0-93.0	111.1	12.2	2441.4	0.46	93.02
93.0-94.0	106.5	11.7	2453.0	0.44	93.47
94.0-95.0	102.2	11.2	2464.2	0.43	93.89
95.0-96.0	98.1	10.7	2474.9	0.41	94.30
96.0-97.0	94.0	10.2	2485.2	0.39	94.69
97.0-98.0	89.5	9.7	2494.9	0.37	95.06
98.0-99.0	84.4	9.1	2504.1	0.35	95.41
99.0-100.0	79.0	8.5	2512.6	0.33	95.74
100.0-101.0	73.7	7.9	2520.6	0.30	96.04
101.0-102.0	68.7	7.4	2527.9	0.28	96.32
102.0-103.0	64.4	6.9	2534.8	0.26	96.59
103.0-104.0	60.5	6.5	2541.3	0.25	96.83
104.0-105.0	56.9	6.0	2547.3	0.23	97.06
105.0-106.0	53.5	5.6	2553.0	0.22	97.28
106.0-107.0	49.7	5.2	2558.2	0.20	97.48
107.0-108.0	46.2	4.8	2563.0	0.18	97.66

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-1600  
 Distance: 8.567 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 [%]
108.0-109.0	43.5	4.5	2567.6	0.17	97.83
109.0-110.0	40.5	4.2	2571.8	0.16	97.99
110.0-111.0	37.3	3.8	2575.6	0.15	98.14
111.0-112.0	34.6	3.5	2579.1	0.13	98.27
112.0-113.0	32.2	3.3	2582.4	0.12	98.40
113.0-114.0	29.9	3.0	2585.4	0.11	98.51
114.0-115.0	27.9	2.8	2588.2	0.11	98.62
115.0-116.0	25.8	2.6	2590.7	0.10	98.71
116.0-117.0	24.0	2.4	2593.1	0.09	98.80
117.0-118.0	22.2	2.2	2595.2	0.08	98.89
118.0-119.0	20.3	2.0	2597.2	0.07	98.96
119.0-120.0	18.8	1.8	2599.0	0.07	99.03
120.0-121.0	17.4	1.6	2600.6	0.06	99.09
121.0-122.0	15.9	1.5	2602.1	0.06	99.15
122.0-123.0	14.5	1.3	2603.5	0.05	99.20
123.0-124.0	13.3	1.2	2604.7	0.05	99.25
124.0-125.0	12.3	1.1	2605.8	0.04	99.29
125.0-126.0	11.5	1.0	2606.8	0.04	99.33
126.0-127.0	11.1	1.0	2607.8	0.04	99.37
127.0-128.0	10.5	0.9	2608.7	0.03	99.40
128.0-129.0	10.1	0.9	2609.6	0.03	99.43
129.0-130.0	9.8	0.8	2610.4	0.03	99.46
130.0-131.0	9.3	0.8	2611.2	0.03	99.49
131.0-132.0	9.2	0.8	2611.9	0.03	99.52
132.0-133.0	9.0	0.7	2612.7	0.03	99.55
133.0-134.0	8.7	0.7	2613.4	0.03	99.58
134.0-135.0	8.4	0.7	2614.0	0.03	99.60
135.0-136.0	8.1	0.6	2614.6	0.02	99.63
136.0-137.0	7.8	0.6	2615.2	0.02	99.65
137.0-138.0	7.8	0.6	2615.8	0.02	99.67
138.0-139.0	7.7	0.6	2616.4	0.02	99.69
139.0-140.0	7.5	0.5	2616.9	0.02	99.71
140.0-141.0	7.4	0.5	2617.4	0.02	99.73
141.0-142.0	7.3	0.5	2617.9	0.02	99.75
142.0-143.0	7.3	0.5	2618.4	0.02	99.77
143.0-144.0	7.3	0.5	2618.9	0.02	99.79

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-1600  
 Distance: 8.567 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 [%]
144.0-145.0	7.2	0.5	2619.3	0.02	99.80
145.0-146.0	7.0	0.4	2619.8	0.02	99.82
146.0-147.0	6.8	0.4	2620.2	0.02	99.84
147.0-148.0	6.8	0.4	2620.6	0.02	99.85
148.0-149.0	6.7	0.4	2621.0	0.01	99.87
149.0-150.0	6.5	0.4	2621.3	0.01	99.88
150.0-151.0	6.2	0.3	2621.7	0.01	99.89
151.0-152.0	5.9	0.3	2622.0	0.01	99.90
152.0-153.0	5.6	0.3	2622.2	0.01	99.92
153.0-154.0	5.2	0.3	2622.5	0.01	99.93
154.0-155.0	4.9	0.2	2622.7	0.01	99.93
155.0-156.0	4.7	0.2	2622.9	0.01	99.94
156.0-157.0	4.5	0.2	2623.1	0.01	99.95
157.0-158.0	4.2	0.2	2623.3	0.01	99.96
158.0-159.0	3.9	0.2	2623.5	0.01	99.96
159.0-160.0	3.4	0.1	2623.6	0.00	99.97
160.0-161.0	3.0	0.1	2623.7	0.00	99.97
161.0-162.0	2.6	0.1	2623.8	0.00	99.97
162.0-163.0	2.4	0.1	2623.9	0.00	99.98
163.0-164.0	2.3	0.1	2623.9	0.00	99.98
164.0-165.0	2.2	0.1	2624.0	0.00	99.98
165.0-166.0	2.1	0.1	2624.1	0.00	99.98
166.0-167.0	2.1	0.1	2624.1	0.00	99.99
167.0-168.0	2.0	0.0	2624.2	0.00	99.99
168.0-169.0	2.0	0.0	2624.2	0.00	99.99
169.0-170.0	2.2	0.0	2624.3	0.00	99.99
170.0-171.0	2.1	0.0	2624.3	0.00	99.99
171.0-172.0	2.1	0.0	2624.3	0.00	99.99
172.0-173.0	2.1	0.0	2624.4	0.00	100.00
173.0-174.0	2.2	0.0	2624.4	0.00	100.00
174.0-175.0	2.2	0.0	2624.4	0.00	100.00
175.0-176.0	2.3	0.0	2624.4	0.00	100.00
176.0-177.0	2.2	0.0	2624.4	0.00	100.00
177.0-178.0	2.0	0.0	2624.5	0.00	100.00
178.0-179.0	2.1	0.0	2624.5	0.00	100.00
179.0-180.0	2.3	0.0	2624.5	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-1600  
 Distance: 8.567 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	681.4	684.6	688.1	689.5	690.7	689.6	681.4	684.6	688.1	689.5
G1.0	705.2	705.9	704.7	698.3	690.4	675.4	664.6	672.2	684.3	696.4
G2.0	724.8	728.1	715.0	689.4	675.9	663.3	637.5	655.4	674.7	697.5
G3.0	744.5	744.7	720.8	689.3	658.2	636.8	615.3	635.0	659.6	691.8
G4.0	771.0	762.2	732.6	700.5	654.6	606.4	585.0	608.6	651.7	700.7
G5.0	790.8	777.9	746.6	691.0	639.2	581.2	564.4	580.9	640.8	702.2
G6.0	816.7	797.0	757.4	698.0	621.2	564.6	533.2	562.4	631.3	702.0
G7.0	836.7	821.1	769.9	697.9	616.7	546.2	523.3	542.6	621.3	703.4
G8.0	864.2	844.8	784.0	693.7	601.3	527.6	552.8	516.8	608.5	704.7
G9.0	884.1	863.9	788.7	708.2	581.9	540.6	461.1	516.0	597.8	712.1
G10.0	896.5	880.7	796.9	700.6	587.6	470.1	486.4	468.5	588.5	705.7
G11.0	916.7	891.3	810.8	710.5	569.7	491.2	412.3	468.5	578.7	711.1
G12.0	934.4	906.2	817.6	706.1	557.3	449.0	425.4	433.8	571.2	706.1
G13.0	951.6	923.5	822.1	704.8	552.3	428.8	385.8	412.8	558.9	700.5
G14.0	969.8	930.8	831.3	712.0	537.1	403.8	338.4	388.7	547.7	701.5
G15.0	982.6	946.0	830.9	695.8	530.2	355.1	346.8	348.1	533.9	690.8
G16.0	987.7	954.9	829.8	701.8	509.8	347.3	273.1	327.9	518.8	687.0
G17.0	1002.1	957.8	840.3	687.4	500.5	305.5	255.6	310.8	502.0	676.3
G18.0	1007.4	956.7	838.2	682.0	490.4	288.5	242.6	291.9	487.7	666.1
G19.0	1016.8	956.0	827.6	670.8	472.1	272.9	226.7	275.6	467.3	653.0
G20.0	1025.0	958.5	828.7	661.2	451.2	258.4	213.1	261.3	448.8	644.6
G21.0	1019.0	967.9	828.8	649.0	433.5	244.6	199.3	246.5	433.4	631.0
G22.0	1014.8	968.8	820.0	638.2	418.8	231.6	186.4	233.6	416.0	621.4
G23.0	1017.0	963.6	816.7	626.5	400.2	219.5	175.0	221.0	396.5	610.2
G24.0	1016.4	954.7	813.0	615.1	382.0	207.7	163.8	209.9	380.9	600.9
G25.0	1013.5	946.7	806.6	602.6	368.0	197.0	153.1	199.9	365.7	590.7
G26.0	1008.7	946.3	802.7	593.0	351.7	187.6	143.3	188.5	351.0	584.8
G27.0	1004.0	946.9	796.6	583.5	335.4	177.7	133.5	177.9	336.1	577.1
G28.0	1011.9	948.1	796.3	577.9	321.5	168.3	124.1	168.1	321.1	574.7
G29.0	1013.0	946.6	795.5	570.0	308.0	158.9	115.2	157.7	309.2	568.7
G30.0	1006.0	946.1	798.9	563.6	295.6	150.3	107.7	148.5	296.3	564.7
G31.0	1008.7	947.7	798.9	557.6	283.7	141.1	99.8	138.2	283.6	562.0
G32.0	1009.9	948.6	806.7	552.5	272.4	132.4	92.2	129.9	272.8	559.2
G33.0	1008.2	952.5	810.5	548.9	262.3	123.4	84.7	120.7	262.4	558.0
G34.0	1012.8	956.1	816.7	545.7	251.6	115.1	78.1	117.3	252.7	556.0
G35.0	1022.7	959.6	822.7	543.2	242.0	106.9	71.3	105.6	242.7	552.8
G36.0	1023.2	965.6	830.0	541.9	232.2	99.0	69.8	98.7	233.6	553.5

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600  
 Distance: 8.567 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	1030.3	973.0	835.0	540.4	223.7	91.1	62.5	89.3	224.0	552.6
G38.0	1034.7	975.3	839.0	537.9	215.3	84.3	56.0	80.4	216.3	549.8
G39.0	1040.9	981.4	842.2	539.2	207.0	82.3	49.8	73.9	208.4	547.6
G40.0	1045.8	984.6	844.4	536.6	199.2	70.2	49.8	69.1	200.0	543.6
G41.0	1047.7	983.5	845.0	533.7	192.5	67.2	40.2	61.3	192.5	537.0
G42.0	1050.5	988.2	844.9	530.9	184.2	60.4	39.9	55.5	185.0	530.9
G43.0	1050.8	988.1	846.2	529.4	177.6	53.5	32.1	50.8	177.5	525.8
G44.0	1049.9	987.8	846.1	520.1	170.6	47.5	30.4	46.3	170.2	517.1
G45.0	1048.0	986.0	841.8	516.3	163.9	42.9	25.6	42.1	162.9	510.8
G46.0	1045.3	983.1	839.8	509.3	156.9	38.6	23.0	37.0	156.1	501.3
G47.0	1040.6	980.4	833.0	500.7	150.8	35.6	21.5	34.9	149.6	489.5
G48.0	1036.6	974.0	825.8	493.9	144.6	31.6	19.8	32.0	143.6	479.3
G49.0	1030.0	969.9	819.5	482.4	138.4	28.6	17.5	27.9	136.9	469.1
G50.0	1022.2	961.7	808.7	471.8	132.1	26.0	16.5	26.9	130.2	454.5
G51.0	1015.0	955.4	798.9	460.5	126.8	23.6	15.2	24.6	124.2	442.0
G52.0	1004.9	947.4	785.9	449.0	120.5	21.4	13.3	22.6	117.7	430.0
G53.0	991.7	934.8	774.2	434.9	114.8	19.6	12.0	20.7	111.9	414.4
G54.0	978.9	923.4	759.1	421.8	109.1	17.7	10.7	19.0	106.4	399.6
G55.0	964.8	913.2	745.2	408.1	103.5	16.3	10.2	17.5	100.8	383.4
G56.0	953.2	897.9	727.8	391.7	98.2	14.4	9.3	16.0	95.9	367.2
G57.0	940.8	885.5	714.5	376.6	93.4	13.0	8.3	14.6	90.6	351.0
G58.0	927.4	871.8	696.6	359.1	88.4	11.8	7.2	13.2	86.3	334.5
G59.0	910.3	857.0	680.6	344.4	84.0	10.7	5.5	12.2	81.8	317.9
G60.0	893.9	842.6	660.7	328.4	79.7	9.8	4.6	11.1	77.6	301.8
G61.0	879.2	825.4	641.8	310.9	75.8	8.7	4.0	10.3	73.8	286.0
G62.0	862.8	808.9	623.4	295.4	72.1	8.4	4.9	9.4	70.4	269.6
G63.0	846.5	791.4	604.7	278.6	68.6	8.0	3.4	7.3	67.1	254.6
G64.0	829.6	775.0	584.9	263.7	65.3	5.8	3.7	6.6	63.9	239.5
G65.0	809.1	760.0	565.0	249.0	62.2	5.2	3.0	5.9	60.6	223.6
G66.0	791.6	739.4	546.0	233.0	59.4	4.7	2.8	5.3	57.8	208.8
G67.0	773.2	721.0	526.0	218.5	56.6	4.3	2.8	5.1	55.3	196.7
G68.0	757.4	704.4	507.7	204.8	54.1	4.0	3.0	6.3	52.8	183.4
G69.0	742.6	686.8	488.4	193.0	51.8	4.0	3.3	6.1	50.7	171.3
G70.0	723.1	670.2	468.5	180.5	49.5	3.8	3.2	6.0	48.7	161.4
G71.0	701.0	651.1	449.1	168.9	47.3	3.6	2.7	5.9	46.5	150.8
G72.0	681.7	632.5	431.0	158.8	45.4	3.5	2.6	5.7	44.6	141.2
G73.0	663.3	612.5	411.9	149.1	43.5	3.4	3.1	5.7	42.9	132.3

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600  
 Distance: 8.567 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	648.0	591.6	393.0	139.7	41.9	3.2	2.4	5.6	41.3	123.9
G75.0	629.1	574.4	374.8	130.8	40.5	3.3	2.4	5.7	40.0	115.7
G76.0	609.7	555.4	356.5	122.5	39.1	3.3	2.0	5.5	38.4	108.8
G77.0	589.6	537.9	339.5	115.2	37.7	3.3	1.9	5.2	37.1	102.4
G78.0	570.0	520.2	323.9	108.2	36.6	3.2	1.9	3.8	35.8	96.4
G79.0	552.3	500.1	307.8	100.4	35.6	3.2	1.9	3.8	34.6	92.1
G80.0	535.6	481.9	291.9	95.5	34.5	3.2	1.9	3.7	33.5	86.7
G81.0	515.7	463.4	276.9	89.9	33.5	3.2	2.8	5.0	32.5	81.9
G82.0	495.1	444.7	262.6	84.5	32.4	3.2	2.1	5.4	31.4	76.3
G83.0	476.8	425.3	249.6	80.1	31.4	3.1	1.8	4.9	30.3	72.4
G84.0	460.1	407.4	236.3	75.6	30.4	4.6	1.7	4.0	29.3	68.5
G85.0	439.6	390.0	224.5	71.4	29.4	3.1	1.8	4.0	28.4	66.3
G86.0	422.0	374.1	214.4	67.8	28.4	3.2	3.0	3.7	27.5	62.9
G87.0	404.6	358.1	204.8	62.8	27.5	3.2	2.0	3.9	26.7	60.0
G88.0	386.7	341.5	193.8	60.9	26.5	3.1	2.1	3.9	25.7	57.3
G89.0	370.6	326.1	184.6	58.0	25.7	3.3	2.2	4.2	25.0	55.0
G90.0	354.4	311.0	176.7	54.0	25.0	3.3	2.3	4.0	24.2	52.6
G91.0	340.6	297.0	168.8	51.5	24.4	3.3	2.3	4.0	23.6	50.8
G92.0	325.9	284.2	161.8	50.5	23.8	3.3	2.4	4.5	23.0	48.8
G93.0	312.1	271.7	154.7	48.5	23.0	3.2	2.4	3.8	22.3	47.8
G94.0	299.3	260.3	148.2	46.7	22.4	3.2	2.3	3.9	21.8	45.4
G95.0	286.5	249.2	141.1	44.7	21.7	4.6	2.8	3.9	21.3	44.0
G96.0	275.3	237.8	134.3	42.8	21.1	4.7	3.1	3.8	20.7	42.1
G97.0	264.3	226.9	127.5	40.7	20.4	4.6	2.5	3.8	20.2	40.9
G98.0	254.4	211.9	120.4	37.2	19.8	3.4	3.0	4.0	19.6	38.1
G99.0	244.9	192.3	112.9	35.2	19.7	3.3	3.0	4.0	19.1	36.7
G100.0	236.0	174.4	104.0	33.1	18.1	3.4	2.6	4.0	18.5	36.8
G101.0	226.8	154.9	94.9	32.8	17.5	3.4	2.7	4.1	17.9	35.4
G102.0	219.3	139.6	88.1	31.0	16.8	3.5	2.8	4.1	17.3	34.4
G103.0	210.8	128.5	80.2	29.6	16.0	3.5	2.8	4.1	16.6	31.9
G104.0	201.8	117.5	75.0	28.2	15.3	3.7	2.9	4.1	17.4	30.6
G105.0	191.5	106.4	70.6	26.8	14.6	3.7	3.0	4.2	16.6	31.1
G106.0	178.3	99.3	66.6	25.4	14.0	5.2	4.1	4.2	14.6	28.4
G107.0	157.9	91.1	63.4	24.3	13.3	5.1	3.1	4.1	13.9	27.3
G108.0	147.3	83.6	60.9	23.0	12.7	5.2	3.1	4.3	13.4	26.3
G109.0	135.8	77.2	60.7	21.5	12.7	5.2	3.7	4.3	14.2	25.2
G110.0	120.1	70.1	57.9	20.5	11.6	5.2	3.3	4.9	13.5	24.1

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-1600  
 Distance: 8.567 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	110.3	64.9	53.5	18.1	11.2	5.2	3.3	4.2	11.6	23.0
G112.0	103.1	59.9	50.3	17.1	10.7	3.9	3.4	4.3	11.1	22.0
G113.0	93.1	55.8	46.3	17.8	10.2	3.9	3.4	4.3	10.5	20.9
G114.0	84.8	50.9	42.4	17.1	9.9	5.5	3.5	4.3	10.1	19.8
G115.0	78.6	46.6	39.3	16.3	9.9	5.2	3.5	4.2	9.8	18.7
G116.0	70.4	42.7	35.5	15.7	9.3	5.5	3.5	4.4	9.4	17.7
G117.0	64.8	39.1	32.7	15.0	9.0	5.1	3.6	4.3	10.7	18.0
G118.0	58.5	35.8	29.5	14.4	8.7	5.3	3.6	4.4	8.9	16.1
G119.0	52.3	32.2	26.7	13.9	8.5	5.3	3.5	4.4	8.6	15.4
G120.0	47.7	28.9	24.1	13.4	8.4	5.3	4.7	4.3	9.6	16.5
G121.0	44.0	25.4	21.7	13.0	8.1	5.6	3.7	4.3	8.1	15.5
G122.0	38.7	22.4	19.7	12.5	7.9	5.3	3.6	4.3	7.9	15.0
G123.0	34.6	19.7	17.8	12.1	7.6	5.3	3.6	4.2	7.7	13.1
G124.0	30.5	17.1	16.2	11.7	7.4	5.3	3.6	4.3	7.6	12.6
G125.0	28.0	14.7	14.6	11.4	7.1	3.8	3.6	4.2	7.3	13.8
G126.0	30.4	13.5	13.1	11.1	7.2	3.8	4.0	4.2	8.6	12.2
G127.0	29.3	11.9	11.7	10.8	7.1	5.1	3.5	4.8	8.2	11.9
G128.0	27.2	10.3	10.5	10.7	7.0	5.1	3.5	4.7	6.9	13.1
G129.0	27.1	11.8	9.4	9.1	6.9	5.1	4.1	4.7	6.7	12.9
G130.0	24.3	10.6	8.3	10.2	6.8	5.1	3.6	4.6	6.5	12.8
G131.0	20.8	11.6	7.2	10.0	6.6	5.1	3.5	4.0	6.5	12.6
G132.0	20.4	13.2	6.4	9.7	6.6	5.0	4.5	3.9	7.7	12.4
G133.0	18.1	13.4	5.4	9.4	6.5	5.0	4.4	4.6	7.6	11.9
G134.0	18.2	14.1	4.6	9.0	6.4	4.9	4.4	3.8	6.1	11.5
G135.0	18.0	14.1	4.1	7.2	6.2	4.9	3.4	3.9	7.4	11.0
G136.0	18.1	13.9	3.7	7.0	6.0	4.1	3.3	3.8	7.8	9.3
G137.0	18.2	13.6	3.4	6.7	6.0	3.5	3.3	3.9	7.2	10.2
G138.0	18.8	13.0	3.2	7.7	5.9	4.9	3.4	3.8	7.4	9.8
G139.0	19.1	12.1	3.0	7.5	5.9	4.6	3.4	3.8	7.0	9.5
G140.0	19.6	11.5	2.9	5.9	6.0	4.8	4.4	3.7	5.5	9.2
G141.0	19.7	11.3	3.0	5.8	6.0	4.7	4.4	3.7	5.4	9.4
G142.0	19.0	11.2	3.1	5.7	6.0	4.8	4.3	3.5	5.4	8.7
G143.0	18.4	11.1	3.2	7.2	5.9	4.8	4.3	3.6	6.7	7.1
G144.0	17.8	11.1	3.4	7.2	5.8	4.8	4.2	3.6	6.6	7.0
G145.0	17.6	11.6	3.5	7.1	5.9	4.7	4.2	3.8	5.2	6.9
G146.0	17.3	10.7	3.5	5.7	5.9	4.7	4.2	3.6	5.2	6.8
G147.0	16.8	10.3	3.4	5.8	5.8	4.7	4.3	3.4	5.0	8.4

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-1600  
 Distance: 8.567 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	16.3	9.9	3.1	7.3	5.7	4.7	4.2	3.6	5.1	7.0
G149.0	15.6	9.3	3.1	7.3	5.6	4.5	4.2	3.4	6.3	6.9
G150.0	14.1	8.6	3.0	7.3	5.5	4.5	4.2	3.4	6.5	7.0
G151.0	12.5	7.9	2.8	6.1	5.5	4.1	4.1	3.4	6.3	7.0
G152.0	11.1	7.4	2.6	6.1	5.4	4.5	4.0	3.3	4.6	7.0
G153.0	9.3	6.7	2.5	6.1	5.3	4.5	4.1	3.2	4.5	8.4
G154.0	8.0	6.0	2.5	6.0	5.1	4.4	3.1	3.4	4.3	6.9
G155.0	6.8	5.7	2.5	5.8	4.9	4.3	3.1	3.2	4.1	6.6
G156.0	5.6	5.2	2.6	5.7	4.8	4.4	3.7	3.9	3.8	6.1
G157.0	4.8	4.8	2.6	5.2	4.4	4.1	4.1	3.2	5.1	5.5
G158.0	3.9	4.0	2.6	4.9	4.3	4.3	4.0	3.8	4.8	4.8
G159.0	3.4	3.1	2.6	4.5	4.4	4.3	4.0	3.7	3.3	4.2
G160.0	2.7	2.3	2.3	3.9	3.8	4.2	3.9	3.2	3.0	3.6
G161.0	1.5	1.7	2.0	3.6	3.6	4.1	4.1	3.1	2.7	3.1
G162.0	0.6	1.3	1.7	3.1	3.2	4.0	2.8	3.1	2.5	2.6
G163.0	0.5	1.1	1.5	2.7	3.1	4.2	2.6	3.6	3.7	2.1
G164.0	0.6	1.2	1.3	2.4	2.9	3.9	2.7	3.6	3.6	1.8
G165.0	0.6	1.5	1.1	2.1	3.1	4.0	2.6	3.8	2.2	1.6
G166.0	0.7	1.3	1.2	1.8	2.7	3.9	2.5	2.9	3.5	1.5
G167.0	0.8	1.3	1.2	1.7	2.6	3.8	2.5	2.9	3.5	1.6
G168.0	0.9	1.4	1.3	1.7	2.6	3.8	2.4	2.7	2.1	1.6
G169.0	0.9	1.5	1.3	1.7	2.5	3.8	2.3	2.8	3.5	1.6
G170.0	0.9	1.5	1.3	1.7	2.4	3.7	2.4	2.7	3.4	3.0
G171.0	1.0	1.6	1.3	1.6	2.5	3.6	2.3	2.7	2.0	1.7
G172.0	1.1	1.6	1.4	1.7	2.4	3.6	2.2	2.2	3.3	1.7
G173.0	1.1	1.6	1.5	1.7	2.4	3.5	2.1	2.6	3.4	1.7
G174.0	1.3	1.9	1.5	1.6	2.9	3.4	2.2	2.1	3.4	1.8
G175.0	1.4	1.9	1.5	1.7	3.3	3.5	2.1	2.1	3.4	1.8
G176.0	1.3	2.8	1.6	1.8	3.3	3.3	2.0	2.4	3.3	1.7
G177.0	1.6	2.1	1.7	1.8	1.8	3.3	1.9	1.9	1.9	1.7
G178.0	1.6	2.1	1.7	1.8	1.8	1.9	1.9	2.4	1.9	1.8
G179.0	2.1	2.2	1.8	1.8	1.9	1.9	1.9	3.7	3.3	1.6
G180.0	2.3	2.4	1.7	1.8	3.2	1.7	3.1	2.7	3.2	2.8

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-1600  
 Distance: 8.567 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	690.7	689.6	681.4							
G1.0	703.3	709.5	705.2							
G2.0	721.3	730.1	724.8							
G3.0	731.8	748.2	744.5							
G4.0	737.7	773.2	771.0							
G5.0	753.3	787.9	790.8							
G6.0	765.3	808.1	816.7							
G7.0	776.4	825.5	836.7							
G8.0	787.5	842.2	864.2							
G9.0	789.8	861.8	884.1							
G10.0	798.9	880.3	896.5							
G11.0	812.4	891.9	916.7							
G12.0	815.3	906.8	934.4							
G13.0	810.5	916.0	951.6							
G14.0	820.8	924.7	969.8							
G15.0	820.2	934.6	982.6							
G16.0	815.4	948.6	987.7							
G17.0	813.4	949.7	1002.1							
G18.0	819.1	949.0	1007.4							
G19.0	809.9	950.5	1016.8							
G20.0	804.6	942.9	1025.0							
G21.0	806.7	945.5	1019.0							
G22.0	805.3	947.3	1014.8							
G23.0	796.4	950.6	1017.0							
G24.0	793.5	946.7	1016.4							
G25.0	790.3	944.1	1013.5							
G26.0	792.4	940.2	1008.7							
G27.0	797.0	942.1	1004.0							
G28.0	798.0	939.8	1011.9							
G29.0	802.7	940.4	1013.0							
G30.0	804.8	946.6	1006.0							
G31.0	814.7	949.1	1008.7							
G32.0	818.7	953.6	1009.9							
G33.0	827.6	959.3	1008.2							
G34.0	834.5	962.5	1012.8							
G35.0	838.4	970.1	1022.7							
G36.0	843.4	976.4	1023.2							

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600  
 Distance: 8.567 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	844.8	980.2	1030.3							
G38.0	848.0	986.1	1034.7							
G39.0	851.3	989.1	1040.9							
G40.0	854.9	992.2	1045.8							
G41.0	853.2	991.6	1047.7							
G42.0	851.9	996.1	1050.5							
G43.0	850.7	995.2	1050.8							
G44.0	846.8	994.3	1049.9							
G45.0	842.3	993.1	1048.0							
G46.0	833.2	988.7	1045.3							
G47.0	825.4	979.8	1040.6							
G48.0	818.6	977.0	1036.6							
G49.0	808.7	970.6	1030.0							
G50.0	796.2	960.4	1022.2							
G51.0	783.2	952.4	1015.0							
G52.0	767.4	943.4	1004.9							
G53.0	753.3	928.6	991.7							
G54.0	738.0	920.4	978.9							
G55.0	718.6	905.9	964.8							
G56.0	702.5	892.4	953.2							
G57.0	686.2	874.8	940.8							
G58.0	667.6	861.2	927.4							
G59.0	651.4	847.2	910.3							
G60.0	630.1	832.2	893.9							
G61.0	610.6	817.6	879.2							
G62.0	590.7	800.9	862.8							
G63.0	571.7	782.9	846.5							
G64.0	552.3	764.9	829.6							
G65.0	531.9	747.2	809.1							
G66.0	511.6	729.5	791.6							
G67.0	491.8	711.6	773.2							
G68.0	471.3	693.1	757.4							
G69.0	451.2	675.1	742.6							
G70.0	433.7	657.6	723.1							
G71.0	413.7	638.9	701.0							
G72.0	397.0	620.2	681.7							
G73.0	379.0	599.1	663.3							

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600  
 Distance: 8.567 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	361.0	580.5	648.0							
G75.0	344.1	562.5	629.1							
G76.0	327.4	546.1	609.7							
G77.0	312.4	526.9	589.6							
G78.0	297.4	507.7	570.0							
G79.0	282.0	489.0	552.3							
G80.0	268.2	472.1	535.6							
G81.0	255.8	453.3	515.7							
G82.0	243.2	434.6	495.1							
G83.0	231.0	416.5	476.8							
G84.0	219.8	398.6	460.1							
G85.0	211.9	382.5	439.6							
G86.0	200.6	365.1	422.0							
G87.0	192.0	349.8	404.6							
G88.0	182.9	333.5	386.7							
G89.0	175.4	319.0	370.6							
G90.0	168.1	304.4	354.4							
G91.0	161.1	290.9	340.6							
G92.0	154.7	278.7	325.9							
G93.0	149.0	266.0	312.1							
G94.0	143.4	254.9	299.3							
G95.0	137.8	244.7	286.5							
G96.0	132.9	234.4	275.3							
G97.0	128.2	223.9	264.3							
G98.0	123.3	209.8	254.4							
G99.0	118.1	190.2	244.9							
G100.0	112.8	172.7	236.0							
G101.0	107.5	154.7	226.8							
G102.0	102.4	137.6	219.3							
G103.0	97.2	126.9	210.8							
G104.0	91.8	116.1	201.8							
G105.0	87.2	105.6	191.5							
G106.0	83.3	98.0	178.3							
G107.0	79.1	89.3	157.9							
G108.0	74.8	82.5	147.3							
G109.0	70.3	75.4	135.8							
G110.0	65.8	68.9	120.1							

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-1600  
 Distance: 8.567 m  
 Humidity:  
 Inspector:



## Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	60.6	63.7	110.3							
G112.0	56.3	58.6	103.1							
G113.0	51.4	54.6	93.1							
G114.0	47.8	50.5	84.8							
G115.0	44.3	46.1	78.6							
G116.0	40.5	42.6	70.4							
G117.0	37.4	38.3	64.8							
G118.0	33.9	35.1	58.5							
G119.0	31.0	31.2	52.3							
G120.0	28.2	28.1	47.7							
G121.0	25.7	24.6	44.0							
G122.0	23.3	21.6	38.7							
G123.0	21.3	18.8	34.6							
G124.0	19.4	17.6	30.5							
G125.0	17.4	15.2	28.0							
G126.0	15.8	12.1	30.4							
G127.0	14.1	11.7	29.3							
G128.0	12.3	10.4	27.2							
G129.0	12.0	10.9	27.1							
G130.0	10.0	11.3	24.3							
G131.0	9.1	11.9	20.8							
G132.0	7.7	13.5	20.4							
G133.0	6.6	13.4	18.1							
G134.0	5.9	14.0	18.2							
G135.0	5.1	13.9	18.0							
G136.0	4.6	13.6	18.1							
G137.0	4.2	12.9	18.2							
G138.0	4.1	11.9	18.8							
G139.0	4.2	11.1	19.1							
G140.0	4.2	10.9	19.6							
G141.0	4.3	10.9	19.7							
G142.0	4.5	9.6	19.0							
G143.0	4.5	11.4	18.4							
G144.0	4.6	10.9	17.8							
G145.0	4.5	10.7	17.6							
G146.0	4.5	9.1	17.3							
G147.0	4.4	8.9	16.8							

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-1600  
 Distance: 8.567 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	4.2	10.1	16.3							
G149.0	4.0	9.6	15.6							
G150.0	3.9	7.7	14.1							
G151.0	4.5	8.6	12.5							
G152.0	4.0	7.7	11.1							
G153.0	3.8	7.4	9.3							
G154.0	4.2	6.4	8.0							
G155.0	4.2	5.7	6.8							
G156.0	3.9	5.2	5.6							
G157.0	3.9	4.4	4.8							
G158.0	3.8	3.8	3.9							
G159.0	3.0	3.3	3.4							
G160.0	2.3	2.4	2.7							
G161.0	1.9	2.1	1.5							
G162.0	1.4	1.9	0.6							
G163.0	1.1	2.0	0.5							
G164.0	1.0	2.1	0.6							
G165.0	1.0	2.0	0.6							
G166.0	1.1	2.4	0.7							
G167.0	1.1	2.2	0.8							
G168.0	1.0	2.3	0.9							
G169.0	1.2	2.4	0.9							
G170.0	1.3	2.4	0.9							
G171.0	1.2	2.7	1.0							
G172.0	1.4	2.5	1.1							
G173.0	1.4	2.7	1.1							
G174.0	1.5	2.7	1.3							
G175.0	1.5	2.7	1.4							
G176.0	1.6	2.8	1.3							
G177.0	1.6	2.9	1.6							
G178.0	1.7	3.0	1.6							
G179.0	1.8	3.0	2.1							
G180.0	1.7	3.0	2.3							

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600  
 Distance: 8.567 m  
 Humidity:  
 Inspector: