

Report No.:

Test Time: 2022/8/25 16:22

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 490665 LED-MF-12W-4000K-12V

Voltage: 11.9 V

Current: 1.091 A

Power: 11.80 W

Power Factor: 0.905

## Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 1276.9 lm

Measurement Flux: 1276.9 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(10%,50%,75%,100%): H148.8,H86.3,H61.4,H2

Vertical Diffuse Angle(10%,50%,75%,100%): V156.7,V92.7,V56.9,V1

Luminaire Efficacy Rating (LER): 108.26

Central Intensity: 577.54 cd

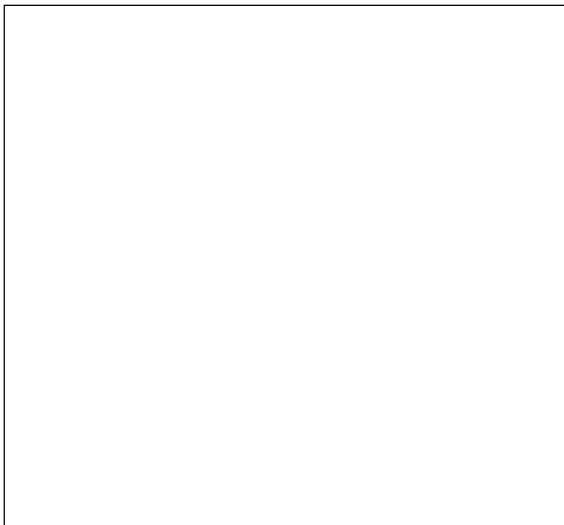
Max. Intensity: 578.22 cd

Pos of Max. Intensity: H0 V1

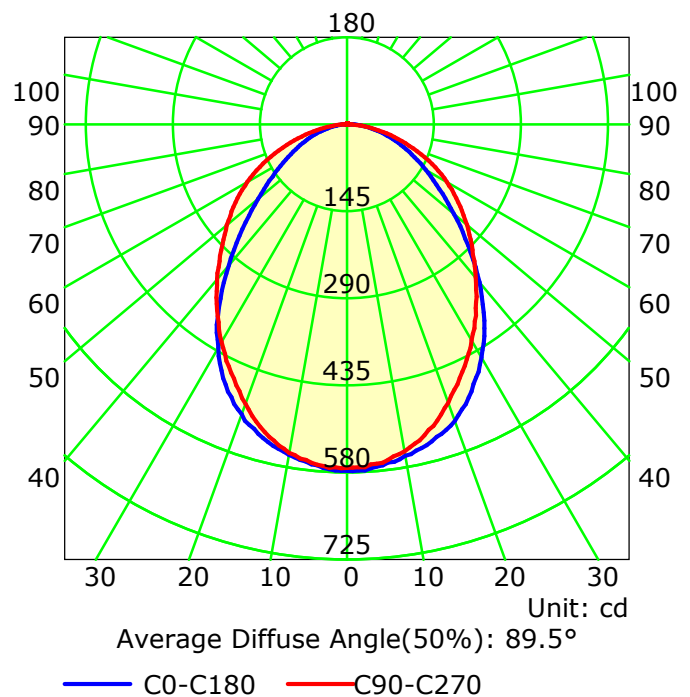
S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.10

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0

Gamma Plane (°):0.0-180.0:1.0

Test Lab:

Test Device: GPM-1800B

Test Type: TYPE C

Distance: 11.655 m [K=1.0000]

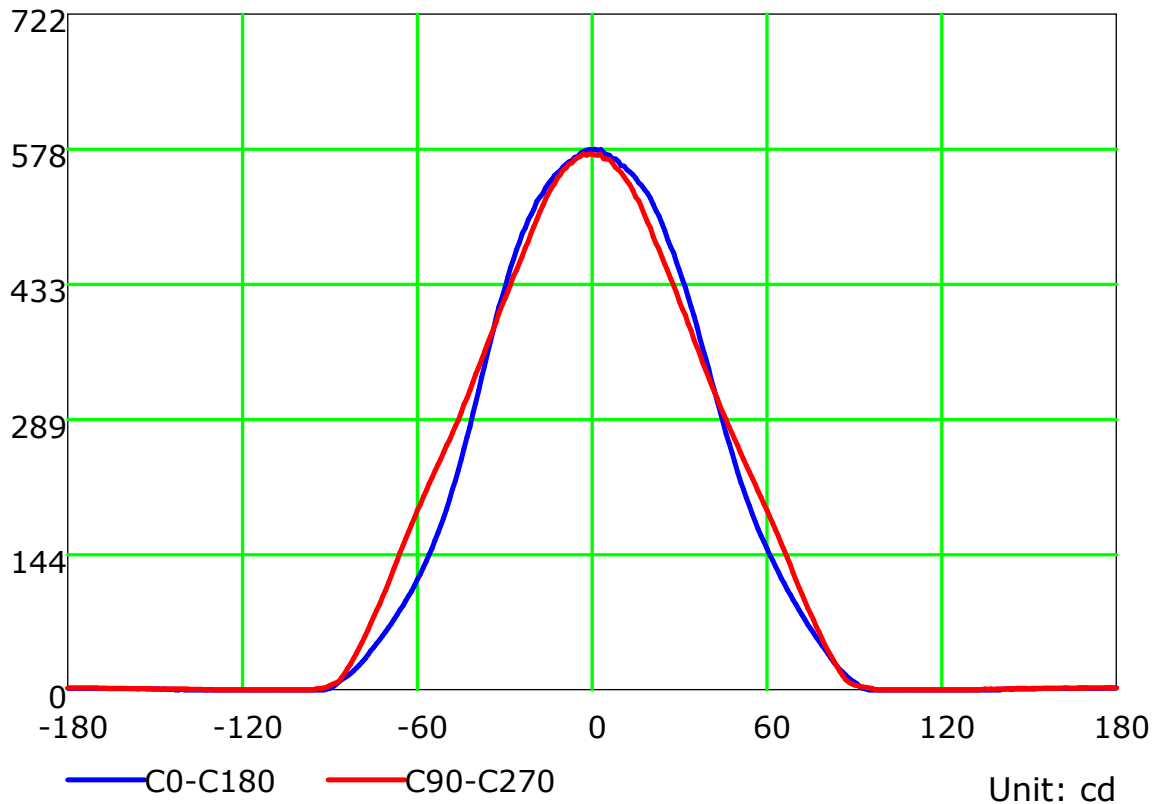
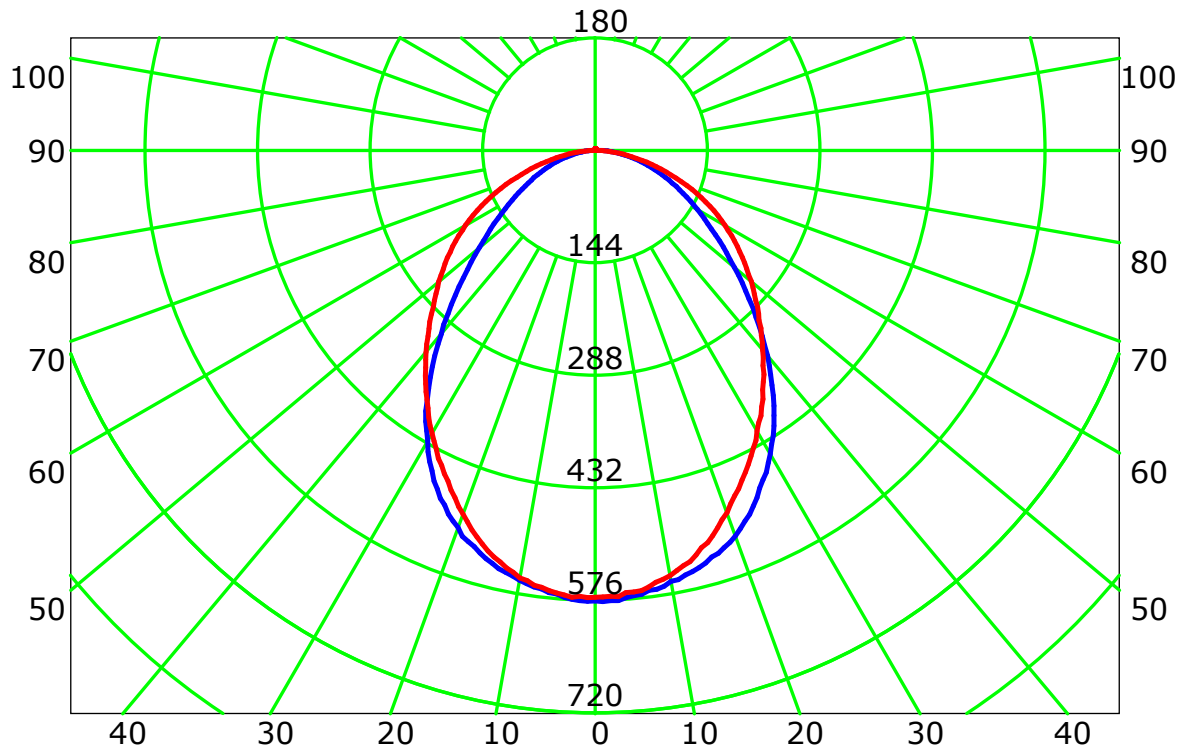
Temperature:

Humidity:

Operator:

Inspector:

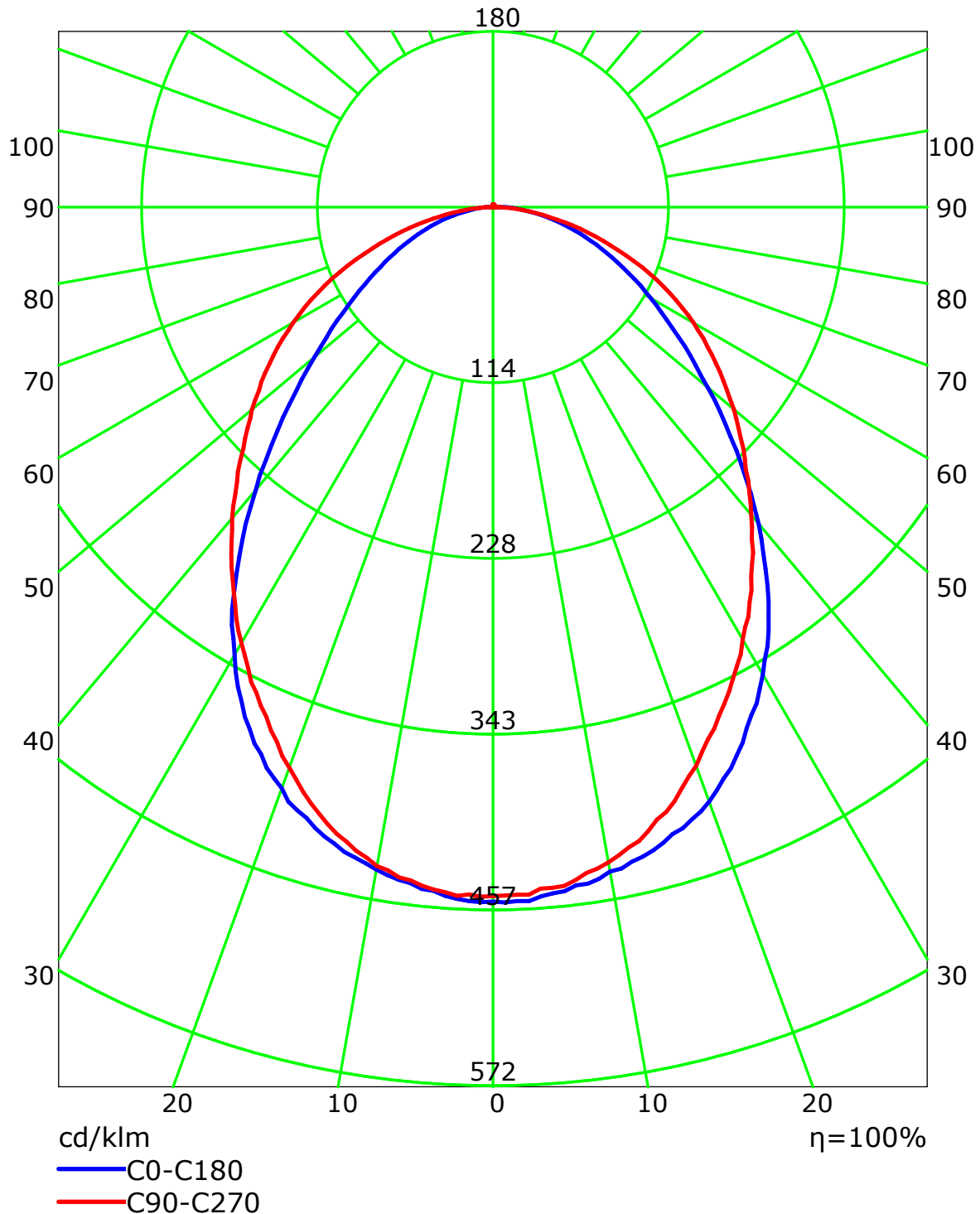
## Luminous Intensity Distribution Curve



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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



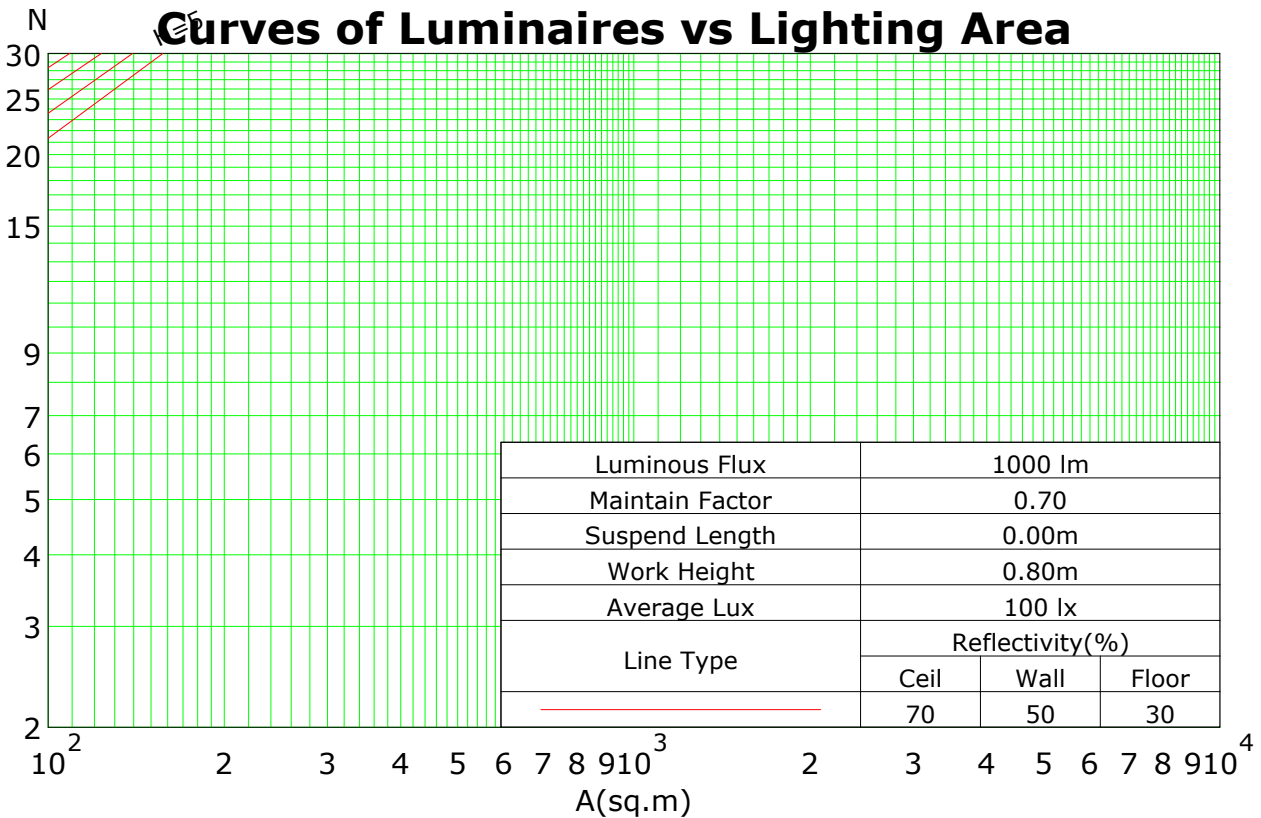
C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	53
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	45	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

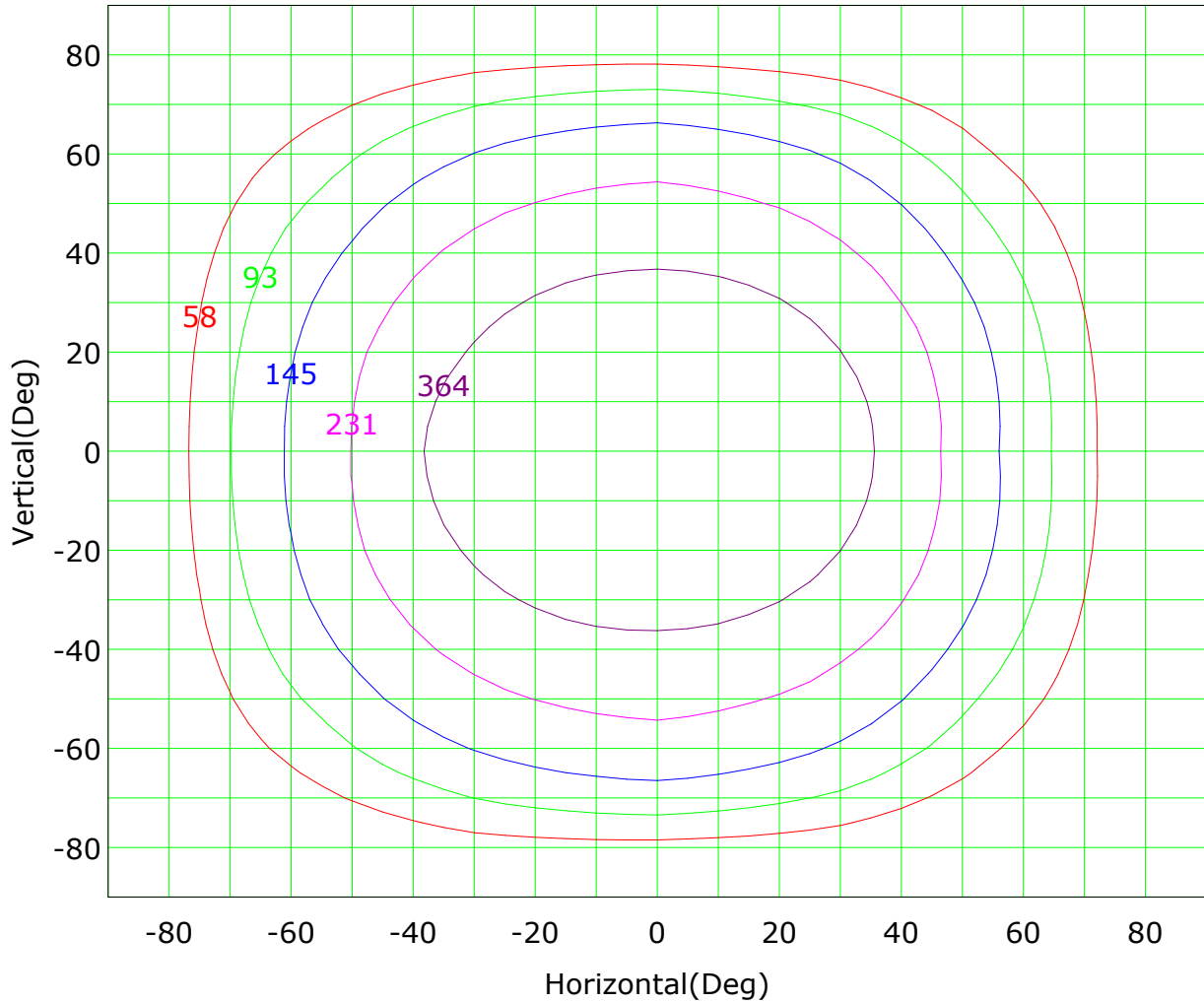
Spacing Criteria (0-180): 1.14  
 Spacing Criteria (90-270): 1.10  
 Spacing Criteria (Diagonal): 1.20



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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Isocandela (rectangle)



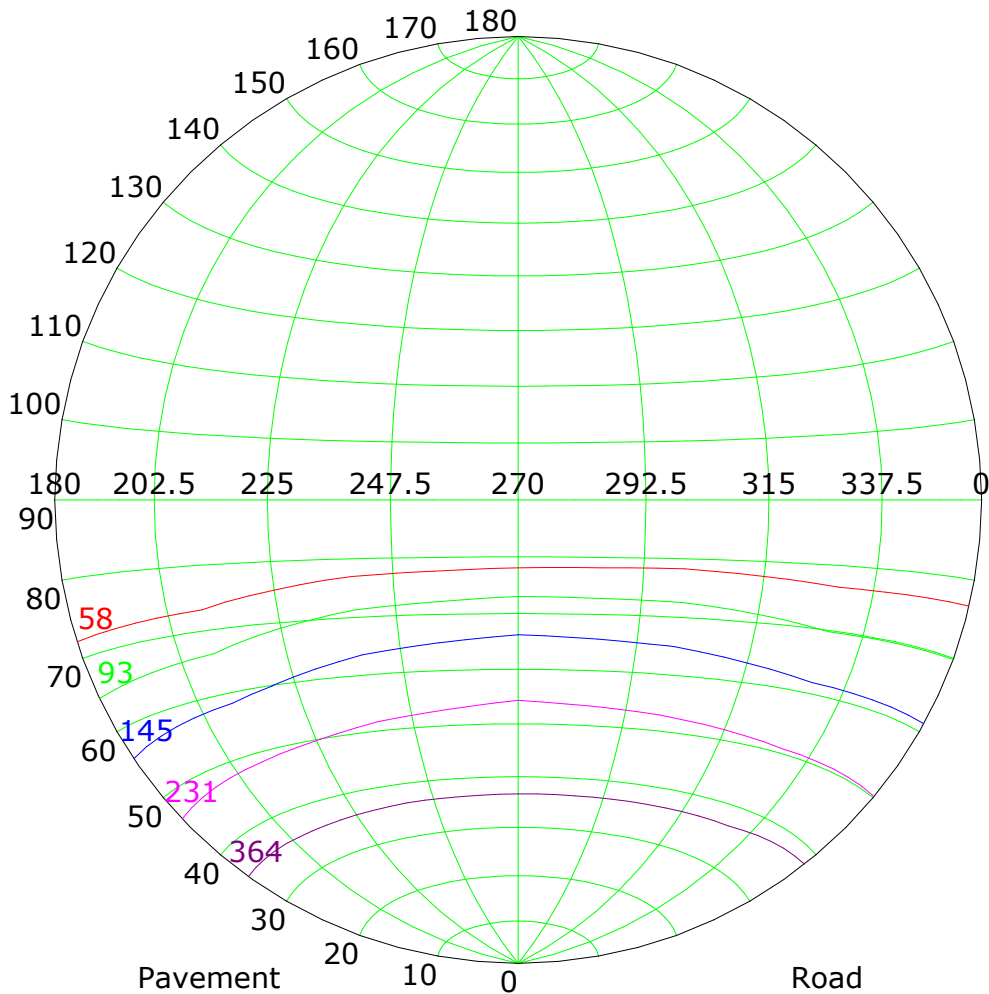
Imax (100%): 578 cd

— ( 10%):	58 cd	— ( 16%):	93 cd
— ( 25%):	145 cd	— ( 40%):	231 cd
— ( 63%):	364 cd	— (100%):	578 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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Isocandela (sphere)



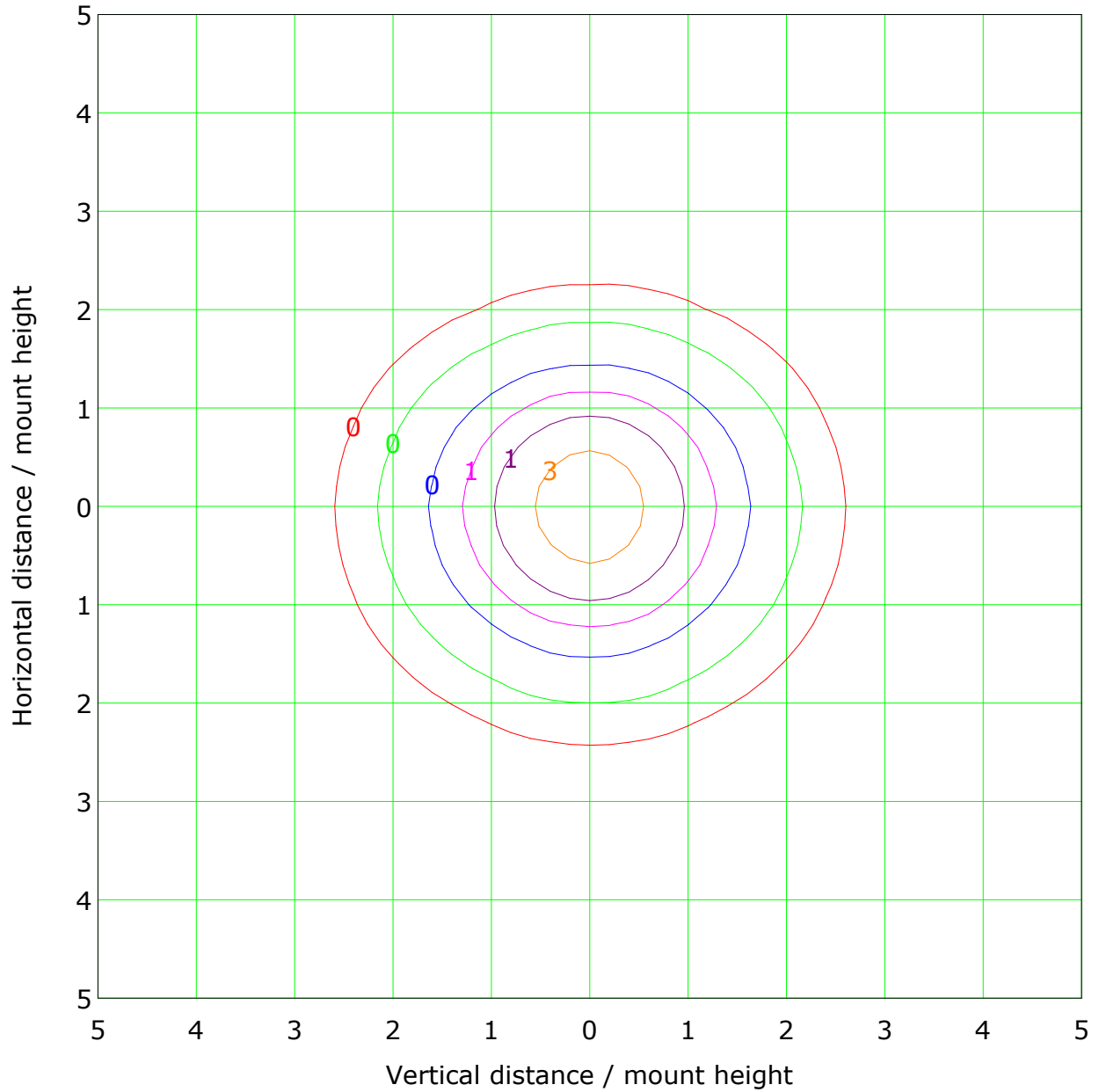
Imax (100%): 578 cd

— ( 10%): 58 cd	— ( 16%): 93 cd
— ( 25%): 145 cd	— ( 40%): 231 cd
— ( 63%): 364 cd	— (100%): 578 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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## IsoLux Plot



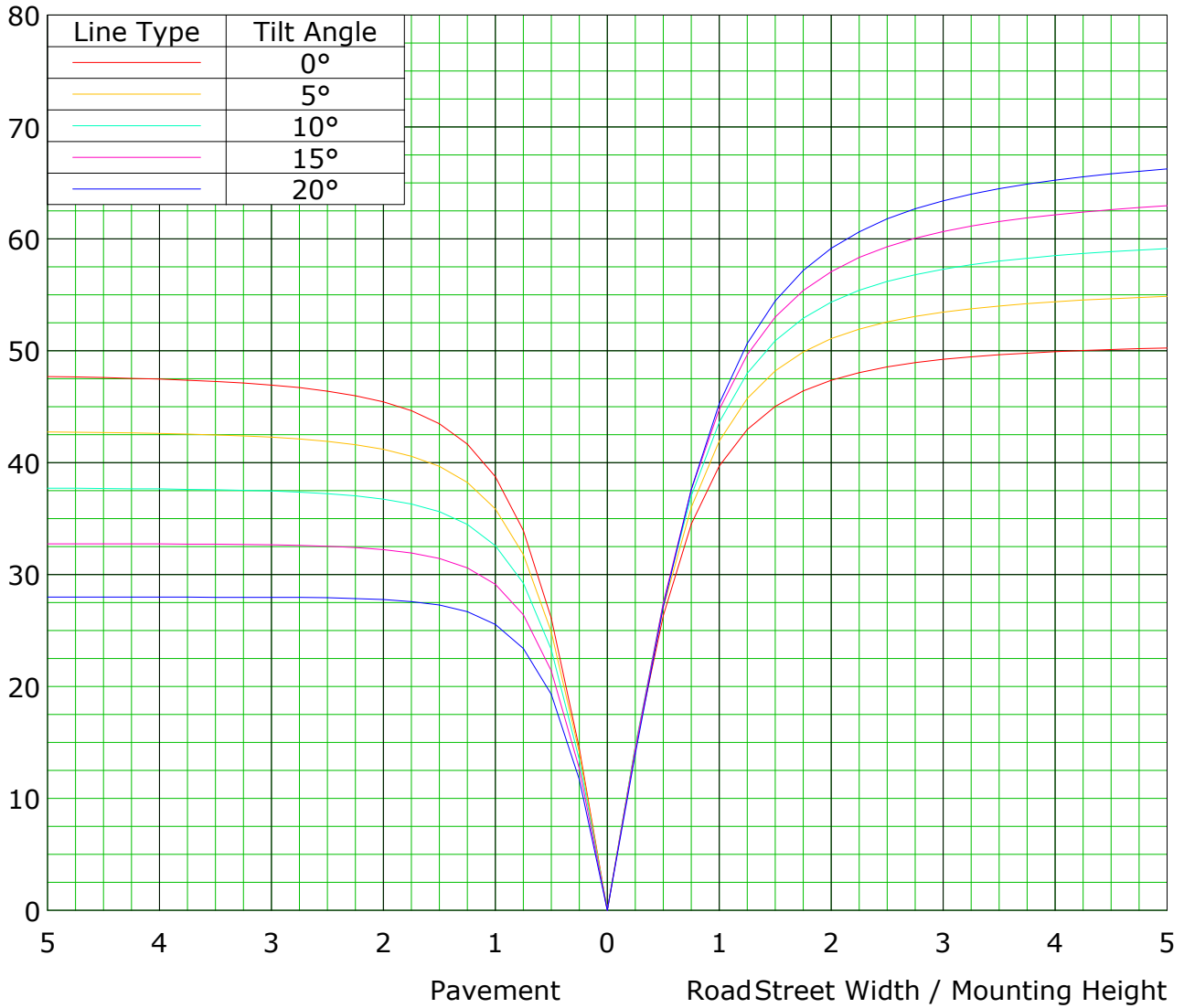
Mounting Height: 10.0m		Max Lux(100%): 5.8 lx	
<ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 1%): 0.1 lx</li> <li><span style="color: blue;">—</span> ( 5%): 0.3 lx</li> <li><span style="color: purple;">—</span> ( 20%): 1.2 lx</li> <li><span style="color: lightgreen;">—</span> (100%): 5.8 lx</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: green;">—</span> ( 2%): 0.1 lx</li> <li><span style="color: magenta;">—</span> ( 10%): 0.6 lx</li> <li><span style="color: orange;">—</span> ( 50%): 2.9 lx</li> </ul>		

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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Roadway CU Curve

Efficiency(%)



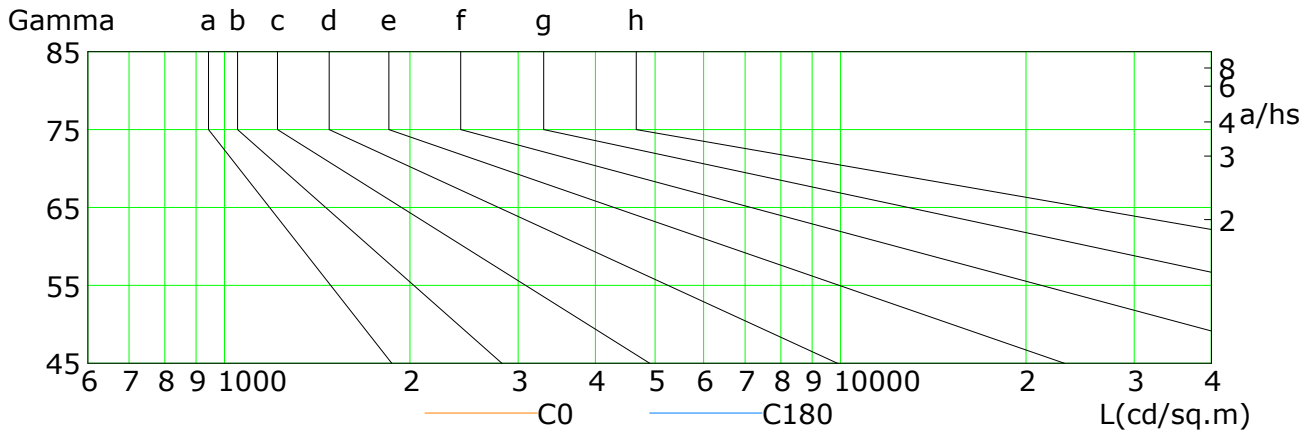
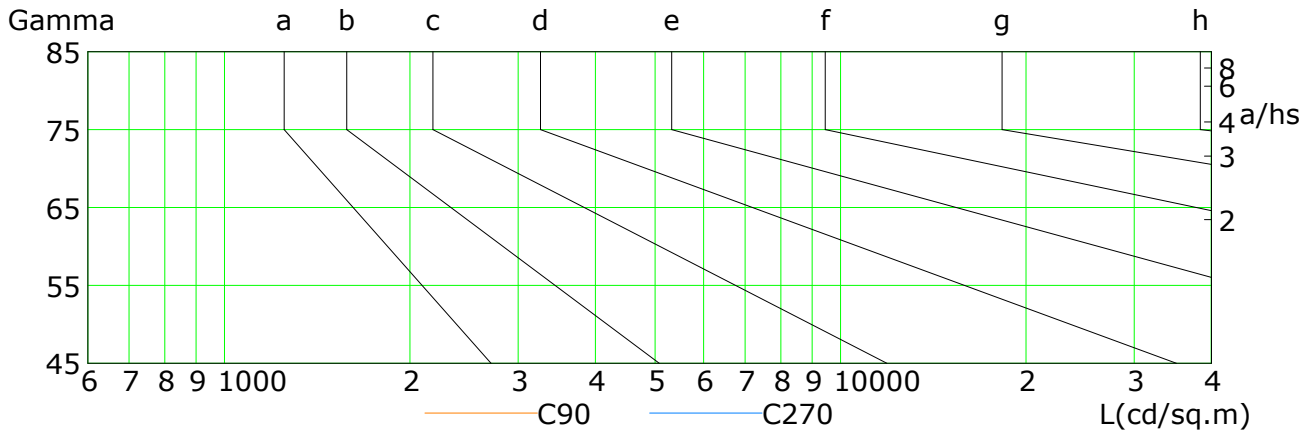
C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:



## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		a	b	c	d	e	f	g	h
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

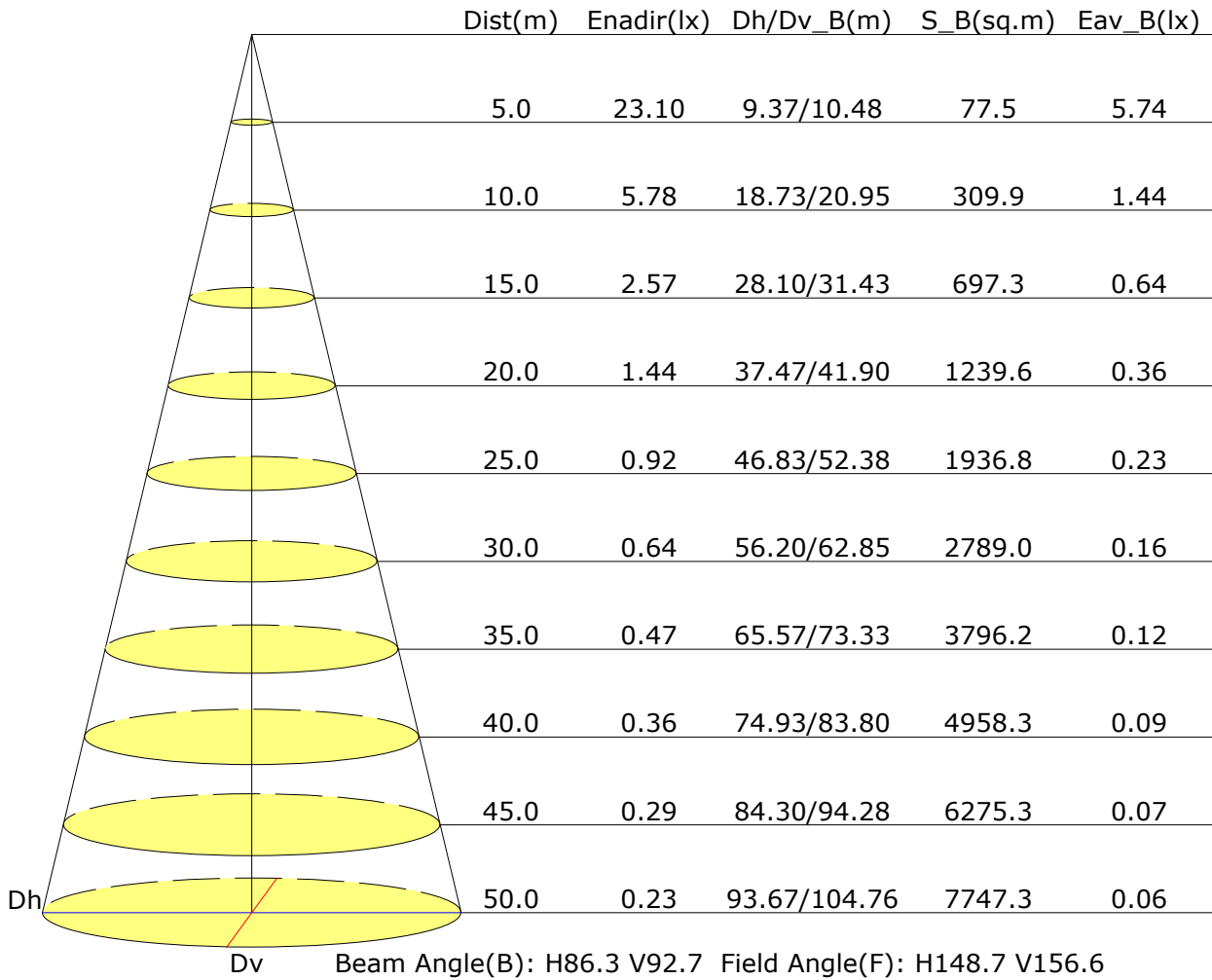


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	287	233	188	152	119	92	66	43	22
C90	296	261	226	193	157	118	82	48	21
C180	247	194	152	118	90	67	46	27	13
C270	297	262	227	192	155	114	78	45	18

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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

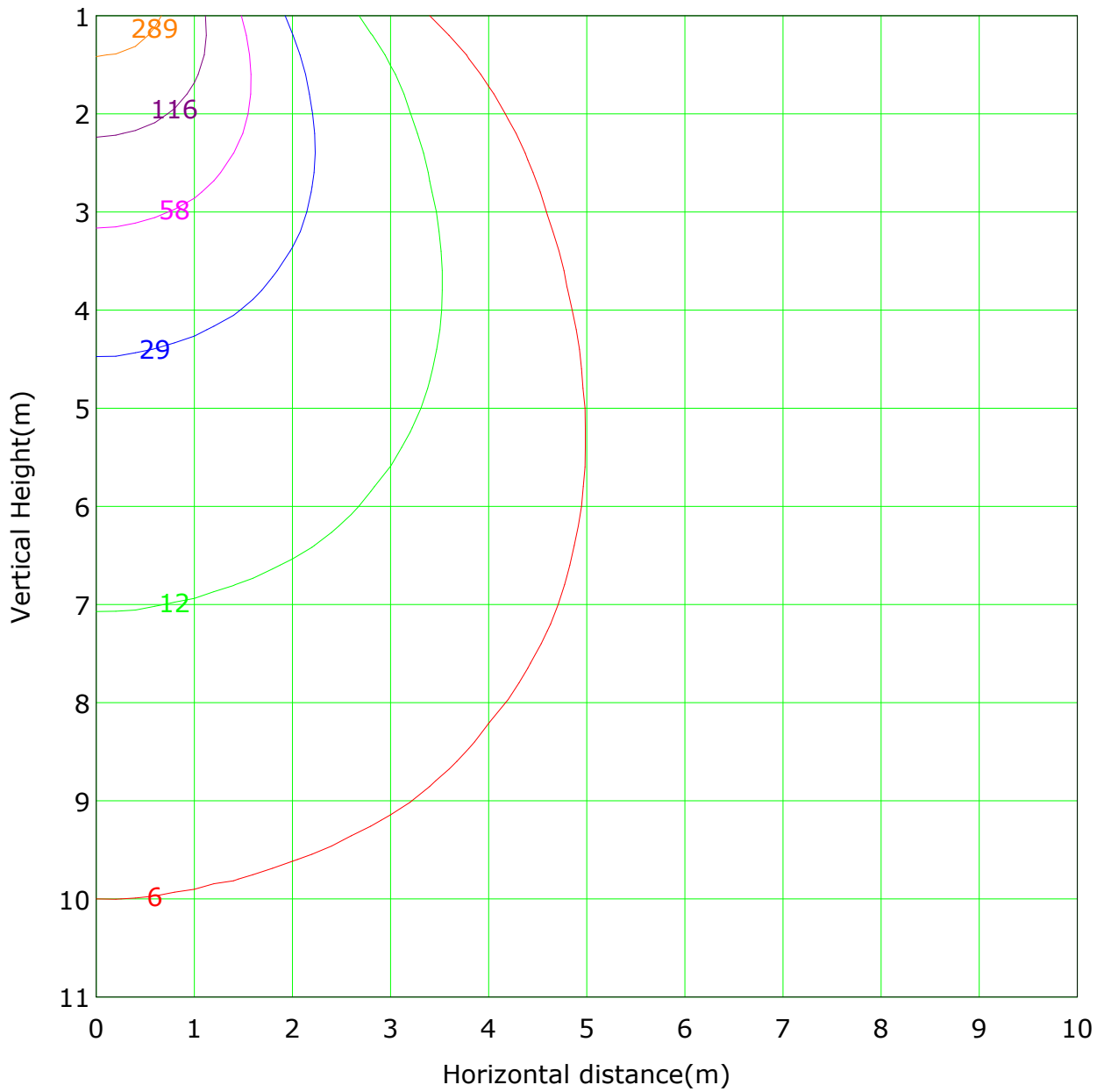
## Illuminance at a Distance



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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 577.5 lx
— ( 1%): 5.8 lx	— ( 2%): 11.6 lx	
— ( 5%): 28.9 lx	— ( 10%): 57.8 lx	
— ( 20%): 115.5 lx	— ( 50%): 288.8 lx	
— (100%): 577.5 lx		

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Area Flux Table

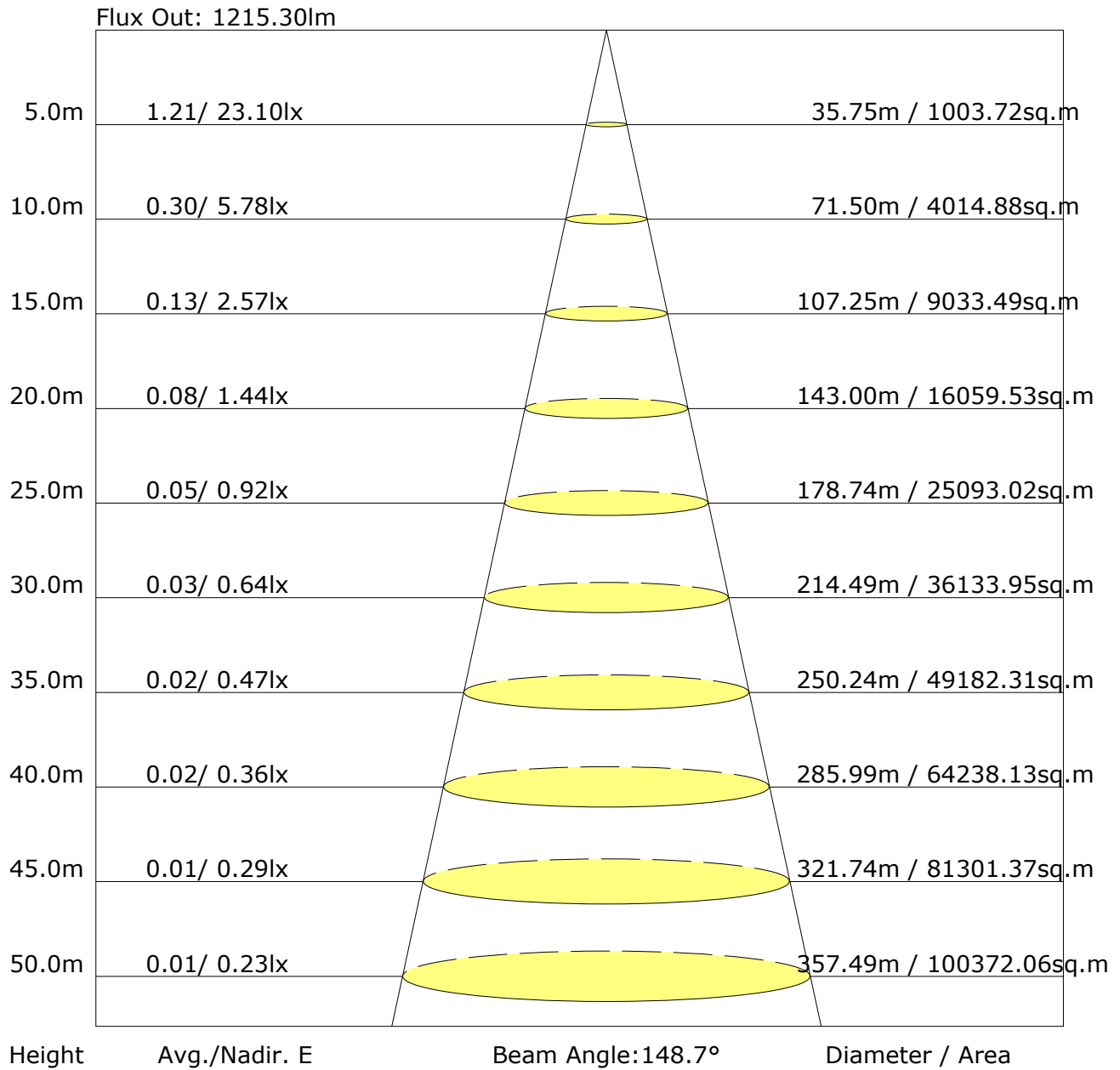
Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	00	10	20	30	40	50	60	70	80	90		
Flux(E)	Flux(T)	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
		0.6	4.3	13.0	28.5	53.8	87.5	121.4	147.3	161.9	162.6	149.7	125.7	94.2	61.8	35.3	17.3	6.3	1.0	1272		1231
Flux(E)	Flux(T)	0.0	0.5	9.7	25.7	51.3	85.3	119.3	145.3	160.0	160.7	147.7	123.7	92.1	59.4	32.8	14.7	3.0	0.0			
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-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## The Average Illuminance Effective Figure



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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## UGR Table

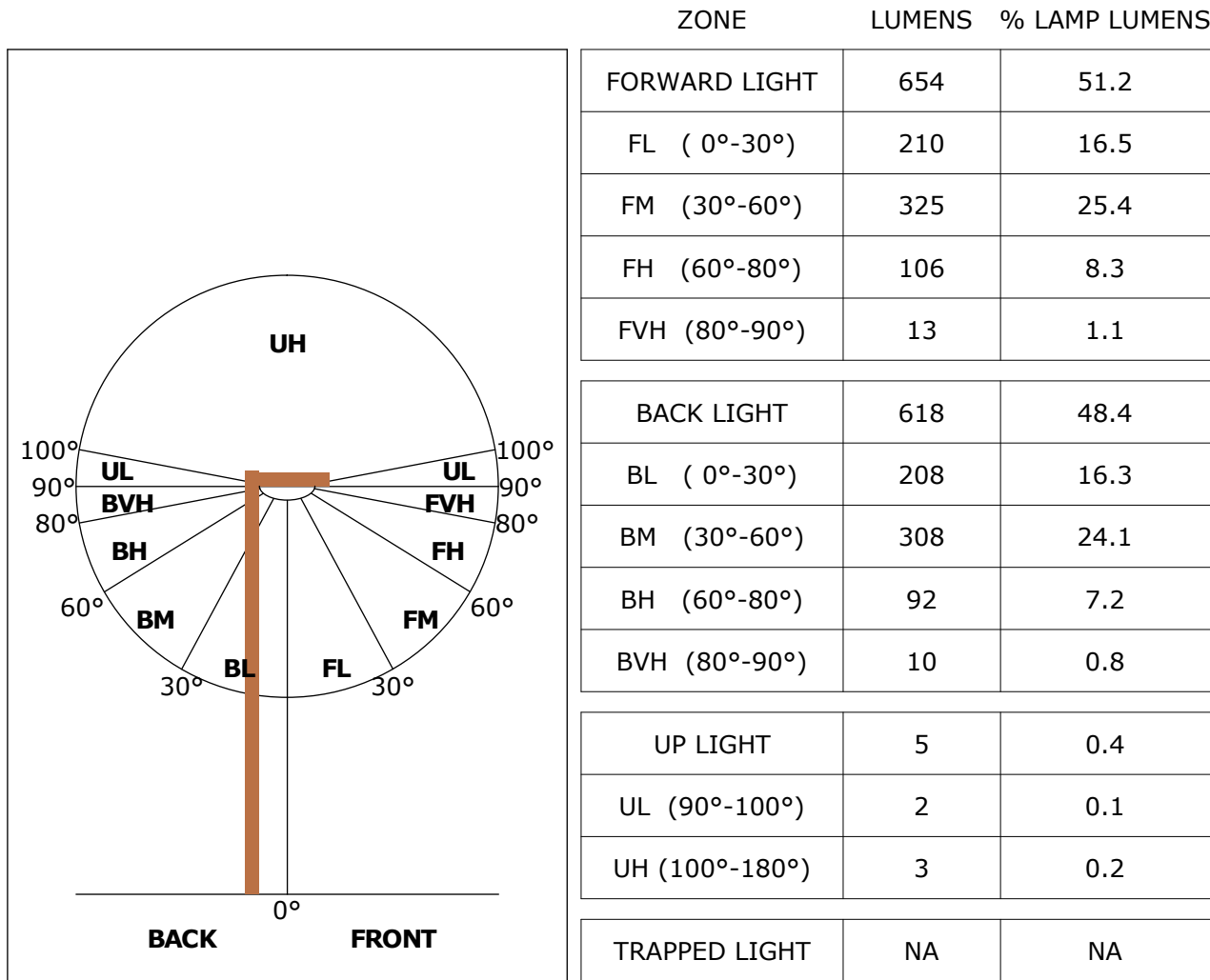
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$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

Calculate in accordance with CIE Pub.117. The table is revised with 1277lm ( $8\log(F/F_0) = 0.8$ ).

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

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

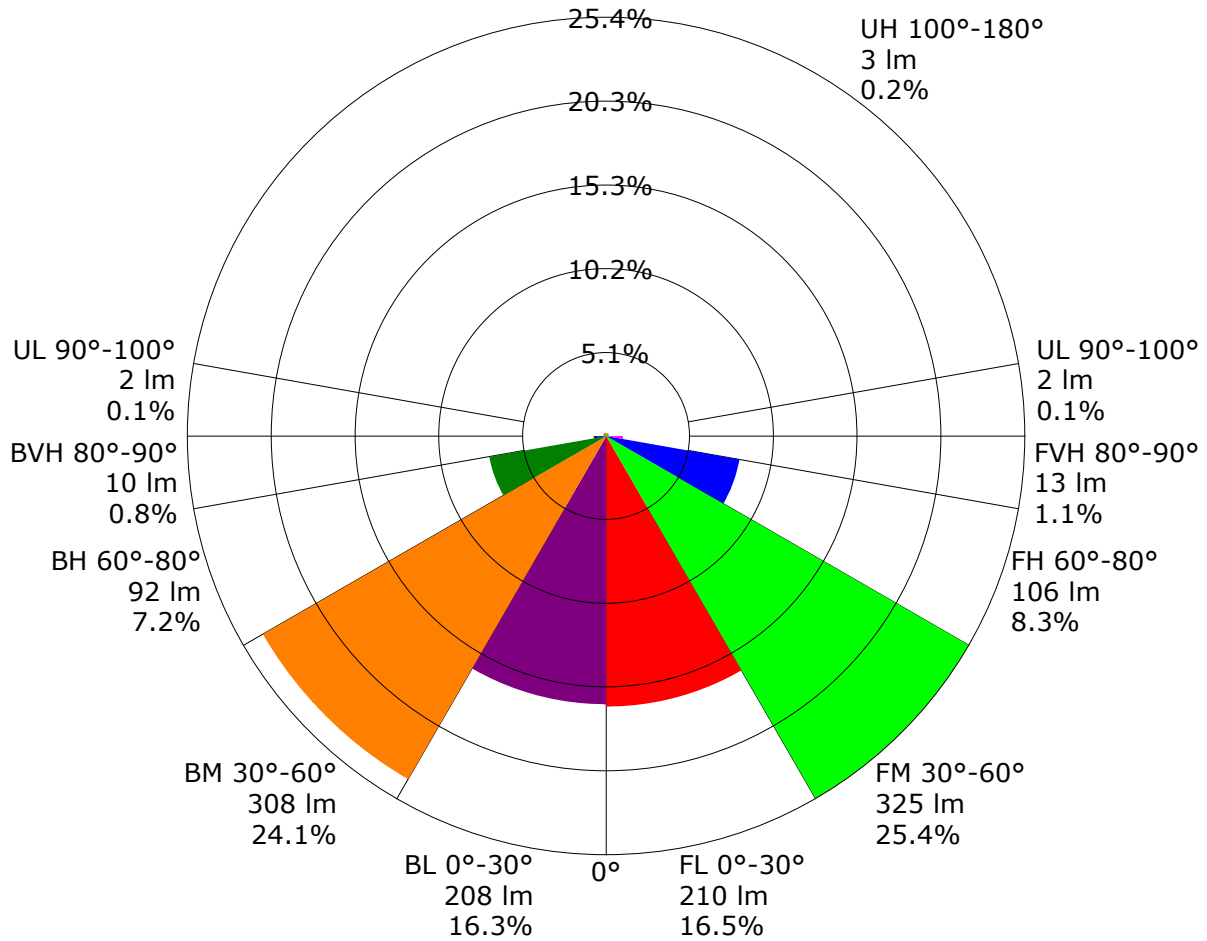


<b>BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07</b>	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G1

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## LCS Graph



### Back Light

### Forward Light

Scale= MAX LCS%

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: 11.655 m [K=1.0000]

Humidity:

Inspector:



## Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
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	0.61	0.71	0.78	0.83	0.90	0.94	0.98	1.02	1.04	
	0.30		0.54	0.64	0.71	0.76	0.84	0.89	0.93	0.98	1.01	
	0.20		0.49	0.59	0.66	0.71	0.79	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.60	0.69	0.76	0.80	0.87	0.91	0.94	0.98	1.00	
	0.30		0.53	0.63	0.70	0.75	0.82	0.87	0.90	0.95	0.97	
	0.20		0.49	0.58	0.65	0.70	0.78	0.83	0.87	0.92	0.95	
0.30	0.50	0.20	0.58	0.67	0.73	0.78	0.84	0.88	0.90	0.94	0.96	
	0.30		0.53	0.62	0.68	0.73	0.80	0.84	0.87	0.91	0.94	
	0.20		0.48	0.58	0.64	0.69	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.46	0.55	0.61	0.66	0.73	0.77	0.80	0.85	0.87	
<p>Rating:12W 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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
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	0.93	0.76	0.65	0.56	0.45	0.37	0.32	0.25	0.20	
	0.30		0.77	0.65	0.56	0.50	0.41	0.34	0.30	0.23	0.19	
	0.20		0.66	0.57	0.50	0.45	0.37	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.89	0.73	0.62	0.54	0.43	0.39	0.30	0.23	0.19	
	0.30		0.75	0.63	0.55	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.65	0.56	0.49	0.44	0.36	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.86	0.70	0.59	0.51	0.41	0.34	0.29	0.22	0.18	
	0.30		0.74	0.62	0.53	0.47	0.38	0.32	0.27	0.21	0.18	
	0.20		0.65	0.55	0.48	0.43	0.35	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.54	0.45	0.38	0.34	0.27	0.23	0.20	0.15	0.13	
<p>Rating:12W 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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25									
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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.20	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.17	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<p>Rating:12W 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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## 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	574.3	0.5	0.5	0.04	0.04
1.0-2.0	573.5	1.6	2.2	0.13	0.17
2.0-3.0	572.8	2.7	4.9	0.21	0.39
3.0-4.0	571.9	3.8	8.8	0.30	0.69
4.0-5.0	570.2	4.9	13.7	0.38	1.07
5.0-6.0	568.4	6.0	19.6	0.47	1.54
6.0-7.0	566.1	7.0	26.7	0.55	2.09
7.0-8.0	563.5	8.1	34.7	0.63	2.72
8.0-9.0	560.7	9.1	43.8	0.71	3.43
9.0-10.0	557.6	10.1	53.9	0.79	4.22
10.0-11.0	554.0	11.1	65.0	0.87	5.09
11.0-12.0	550.3	12.0	77.0	0.94	6.03
12.0-13.0	546.3	13.0	90.0	1.02	7.05
13.0-14.0	541.8	13.9	103.9	1.09	8.13
14.0-15.0	537.2	14.8	118.6	1.16	9.29
15.0-16.0	532.2	15.6	134.2	1.22	10.51
16.0-17.0	526.4	16.4	150.6	1.28	11.79
17.0-18.0	520.9	17.2	167.8	1.35	13.14
18.0-19.0	514.9	17.9	185.7	1.40	14.54
19.0-20.0	507.9	18.6	204.3	1.46	16.00
20.0-21.0	501.1	19.2	223.5	1.51	17.51
21.0-22.0	493.9	19.9	243.4	1.55	19.06
22.0-23.0	486.3	20.4	263.8	1.60	20.66
23.0-24.0	478.5	20.9	284.7	1.64	22.30
24.0-25.0	470.5	21.4	306.1	1.68	23.97
25.0-26.0	462.3	21.8	327.9	1.71	25.68
26.0-27.0	453.9	22.2	350.1	1.74	27.42
27.0-28.0	445.7	22.6	372.7	1.77	29.19
28.0-29.0	437.1	22.9	395.6	1.79	30.98
29.0-30.0	428.2	23.1	418.7	1.81	32.79
30.0-31.0	419.3	23.3	442.0	1.83	34.62
31.0-32.0	410.6	23.5	465.6	1.84	36.46
32.0-33.0	401.7	23.7	489.2	1.85	38.31
33.0-34.0	392.2	23.7	513.0	1.86	40.17
34.0-35.0	382.9	23.8	536.8	1.86	42.04
35.0-36.0	373.6	23.8	560.6	1.86	43.90

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: 11.655 m [K=1.0000]  
 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	364.1	23.7	584.3	1.86	45.76
37.0-38.0	354.7	23.7	608.0	1.85	47.61
38.0-39.0	344.8	23.5	631.5	1.84	49.46
39.0-40.0	335.1	23.4	654.9	1.83	51.29
40.0-41.0	325.8	23.2	678.1	1.82	53.10
41.0-42.0	316.2	23.0	701.1	1.80	54.90
42.0-43.0	306.7	22.7	723.8	1.78	56.68
43.0-44.0	297.0	22.4	746.2	1.76	58.44
44.0-45.0	287.8	22.1	768.3	1.73	60.17
45.0-46.0	278.5	21.8	790.1	1.71	61.88
46.0-47.0	269.0	21.4	811.5	1.68	63.55
47.0-48.0	260.1	21.0	832.5	1.65	65.20
48.0-49.0	251.5	20.7	853.2	1.62	66.82
49.0-50.0	242.9	20.3	873.4	1.59	68.40
50.0-51.0	234.2	19.8	893.3	1.55	69.96
51.0-52.0	225.8	19.4	912.6	1.52	71.47
52.0-53.0	217.8	18.9	931.6	1.48	72.96
53.0-54.0	210.0	18.5	950.1	1.45	74.41
54.0-55.0	202.1	18.0	968.1	1.41	75.82
55.0-56.0	194.3	17.6	985.7	1.37	77.19
56.0-57.0	186.8	17.1	1002.8	1.34	78.53
57.0-58.0	179.4	16.6	1019.4	1.30	79.83
58.0-59.0	172.0	16.1	1035.5	1.26	81.09
59.0-60.0	164.8	15.6	1051.0	1.22	82.31
60.0-61.0	157.9	15.1	1066.1	1.18	83.49
61.0-62.0	151.0	14.6	1080.7	1.14	84.63
62.0-63.0	144.0	14.0	1094.7	1.10	85.73
63.0-64.0	137.2	13.5	1108.1	1.05	86.78
64.0-65.0	130.6	12.9	1121.1	1.01	87.80
65.0-66.0	124.2	12.4	1133.5	0.97	88.77
66.0-67.0	117.7	11.8	1145.3	0.93	89.69
67.0-68.0	111.2	11.3	1156.6	0.88	90.57
68.0-69.0	105.1	10.7	1167.3	0.84	91.41
69.0-70.0	98.9	10.2	1177.4	0.80	92.21
70.0-71.0	92.8	9.6	1187.0	0.75	92.96
71.0-72.0	86.8	9.0	1196.1	0.71	93.67

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: 11.655 m [K=1.0000]  
 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	81.2	8.5	1204.6	0.67	94.33
73.0-74.0	75.5	7.9	1212.5	0.62	94.96
74.0-75.0	69.9	7.4	1219.9	0.58	95.53
75.0-76.0	64.5	6.8	1226.7	0.54	96.07
76.0-77.0	59.3	6.3	1233.0	0.50	96.56
77.0-78.0	54.1	5.8	1238.8	0.45	97.02
78.0-79.0	48.9	5.3	1244.1	0.41	97.43
79.0-80.0	43.8	4.7	1248.8	0.37	97.80
80.0-81.0	39.0	4.2	1253.0	0.33	98.13
81.0-82.0	34.4	3.7	1256.8	0.29	98.42
82.0-83.0	29.9	3.2	1260.0	0.25	98.68
83.0-84.0	25.7	2.8	1262.8	0.22	98.90
84.0-85.0	21.9	2.4	1265.2	0.19	99.08
85.0-86.0	18.6	2.0	1267.2	0.16	99.24
86.0-87.0	15.4	1.7	1268.9	0.13	99.37
87.0-88.0	12.5	1.4	1270.3	0.11	99.48
88.0-89.0	10.1	1.1	1271.4	0.09	99.57
89.0-90.0	7.9	0.9	1272.3	0.07	99.64
90.0-91.0	5.9	0.6	1272.9	0.05	99.69
91.0-92.0	4.1	0.5	1273.4	0.04	99.72
92.0-93.0	2.8	0.3	1273.7	0.02	99.75
93.0-94.0	1.8	0.2	1273.9	0.02	99.76
94.0-95.0	1.1	0.1	1274.0	0.01	99.77
95.0-96.0	0.6	0.1	1274.1	0.01	99.78
96.0-97.0	0.3	0.0	1274.1	0.00	99.78
97.0-98.0	0.0	0.0	1274.1	0.00	99.78
98.0-99.0	0.0	0.0	1274.1	0.00	99.78
99.0-100.0	0.0	0.0	1274.1	0.00	99.78
100.0-101.0	0.0	0.0	1274.1	0.00	99.78
101.0-102.0	0.0	0.0	1274.1	0.00	99.78
102.0-103.0	0.0	0.0	1274.1	0.00	99.78
103.0-104.0	0.0	0.0	1274.1	0.00	99.78
104.0-105.0	0.0	0.0	1274.1	0.00	99.78
105.0-106.0	0.0	0.0	1274.1	0.00	99.78
106.0-107.0	0.0	0.0	1274.1	0.00	99.78
107.0-108.0	0.0	0.0	1274.1	0.00	99.78

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: 11.655 m [K=1.0000]  
 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	0.0	0.0	1274.1	0.00	99.78
109.0-110.0	0.0	0.0	1274.1	0.00	99.78
110.0-111.0	0.0	0.0	1274.1	0.00	99.78
111.0-112.0	0.0	0.0	1274.1	0.00	99.78
112.0-113.0	0.0	0.0	1274.1	0.00	99.78
113.0-114.0	0.0	0.0	1274.1	0.00	99.78
114.0-115.0	0.0	0.0	1274.1	0.00	99.78
115.0-116.0	0.0	0.0	1274.1	0.00	99.78
116.0-117.0	0.0	0.0	1274.1	0.00	99.78
117.0-118.0	0.0	0.0	1274.1	0.00	99.78
118.0-119.0	0.0	0.0	1274.1	0.00	99.78
119.0-120.0	0.0	0.0	1274.1	0.00	99.78
120.0-121.0	0.0	0.0	1274.1	0.00	99.78
121.0-122.0	0.0	0.0	1274.1	0.00	99.78
122.0-123.0	0.0	0.0	1274.1	0.00	99.78
123.0-124.0	0.0	0.0	1274.1	0.00	99.78
124.0-125.0	0.0	0.0	1274.1	0.00	99.78
125.0-126.0	0.0	0.0	1274.1	0.00	99.78
126.0-127.0	0.0	0.0	1274.1	0.00	99.78
127.0-128.0	0.0	0.0	1274.1	0.00	99.78
128.0-129.0	0.0	0.0	1274.1	0.00	99.78
129.0-130.0	0.0	0.0	1274.1	0.00	99.78
130.0-131.0	0.1	0.0	1274.1	0.00	99.78
131.0-132.0	0.2	0.0	1274.1	0.00	99.78
132.0-133.0	0.2	0.0	1274.1	0.00	99.78
133.0-134.0	0.5	0.0	1274.2	0.00	99.79
134.0-135.0	0.7	0.1	1274.2	0.00	99.79
135.0-136.0	0.6	0.0	1274.3	0.00	99.79
136.0-137.0	0.6	0.0	1274.3	0.00	99.80
137.0-138.0	0.7	0.1	1274.4	0.00	99.80
138.0-139.0	0.9	0.1	1274.4	0.01	99.81
139.0-140.0	1.0	0.1	1274.5	0.01	99.81
140.0-141.0	1.1	0.1	1274.6	0.01	99.82
141.0-142.0	1.1	0.1	1274.7	0.01	99.82
142.0-143.0	1.1	0.1	1274.7	0.01	99.83
143.0-144.0	1.2	0.1	1274.8	0.01	99.84

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: 11.655 m [K=1.0000]  
 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	1.3	0.1	1274.9	0.01	99.84
145.0-146.0	1.4	0.1	1275.0	0.01	99.85
146.0-147.0	1.4	0.1	1275.1	0.01	99.86
147.0-148.0	1.4	0.1	1275.2	0.01	99.86
148.0-149.0	1.5	0.1	1275.2	0.01	99.87
149.0-150.0	1.5	0.1	1275.3	0.01	99.88
150.0-151.0	1.5	0.1	1275.4	0.01	99.88
151.0-152.0	1.6	0.1	1275.5	0.01	99.89
152.0-153.0	1.7	0.1	1275.6	0.01	99.90
153.0-154.0	1.7	0.1	1275.7	0.01	99.90
154.0-155.0	1.8	0.1	1275.7	0.01	99.91
155.0-156.0	1.8	0.1	1275.8	0.01	99.92
156.0-157.0	1.8	0.1	1275.9	0.01	99.92
157.0-158.0	1.8	0.1	1276.0	0.01	99.93
158.0-159.0	1.8	0.1	1276.1	0.01	99.93
159.0-160.0	1.9	0.1	1276.1	0.01	99.94
160.0-161.0	1.9	0.1	1276.2	0.01	99.94
161.0-162.0	2.0	0.1	1276.3	0.01	99.95
162.0-163.0	2.0	0.1	1276.3	0.01	99.95
163.0-164.0	2.0	0.1	1276.4	0.00	99.96
164.0-165.0	2.0	0.1	1276.5	0.00	99.96
165.0-166.0	2.0	0.1	1276.5	0.00	99.97
166.0-167.0	2.0	0.1	1276.6	0.00	99.97
167.0-168.0	2.1	0.0	1276.6	0.00	99.98
168.0-169.0	2.1	0.0	1276.7	0.00	99.98
169.0-170.0	2.1	0.0	1276.7	0.00	99.98
170.0-171.0	2.1	0.0	1276.7	0.00	99.99
171.0-172.0	2.2	0.0	1276.8	0.00	99.99
172.0-173.0	2.2	0.0	1276.8	0.00	99.99
173.0-174.0	2.2	0.0	1276.8	0.00	99.99
174.0-175.0	2.2	0.0	1276.9	0.00	100.00
175.0-176.0	2.2	0.0	1276.9	0.00	100.00
176.0-177.0	2.2	0.0	1276.9	0.00	100.00
177.0-178.0	2.3	0.0	1276.9	0.00	100.00
178.0-179.0	2.3	0.0	1276.9	0.00	100.00
179.0-180.0	2.3	0.0	1276.9	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: 11.655 m [K=1.0000]  
 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	577.5	576.6	575.3	572.9	573.0	571.3	577.5	576.6	575.3	572.9
G1.0	578.2	576.5	574.8	572.4	571.9	572.0	577.9	576.4	573.8	573.5
G2.0	577.5	574.8	572.3	572.0	571.5	568.8	577.2	574.4	574.4	572.0
G3.0	577.9	574.3	573.4	572.5	569.7	569.1	575.9	572.4	573.8	573.4
G4.0	574.5	574.3	572.2	568.1	569.5	567.1	574.1	574.3	570.8	571.0
G5.0	572.8	570.5	571.6	568.2	567.8	566.1	570.6	571.3	569.7	569.5
G6.0	571.9	570.7	567.2	567.5	564.0	562.9	570.0	569.2	568.0	567.2
G7.0	568.1	568.6	566.3	563.7	562.4	561.3	566.3	565.5	565.7	564.0
G8.0	568.1	565.6	561.1	559.0	560.0	557.8	564.8	564.7	562.7	562.8
G9.0	565.5	561.4	557.5	556.7	556.6	555.3	562.3	561.3	560.0	558.3
G10.0	561.0	558.3	555.7	553.3	551.3	553.2	559.4	558.3	556.2	556.2
G11.0	560.3	554.0	552.5	548.9	548.1	547.4	555.7	554.3	551.9	551.0
G12.0	556.4	551.8	547.6	544.2	543.3	545.4	552.8	550.3	548.9	547.3
G13.0	554.2	546.9	541.0	540.8	537.2	541.1	550.2	548.8	543.2	541.5
G14.0	551.2	543.1	537.4	534.5	531.8	536.8	545.6	541.8	539.5	537.2
G15.0	547.3	540.8	531.6	527.2	528.0	531.5	541.7	538.8	533.8	531.4
G16.0	542.3	535.9	523.7	523.2	521.2	527.4	537.0	533.8	526.5	524.8
G17.0	539.9	530.2	517.9	516.5	514.4	522.1	531.1	529.0	519.2	518.4
G18.0	535.3	525.7	512.3	508.4	507.5	517.5	527.3	523.6	513.7	511.4
G19.0	531.4	520.8	503.8	500.5	500.1	511.0	523.0	516.4	507.8	503.2
G20.0	526.0	514.8	496.8	494.3	493.1	503.3	514.2	509.7	496.8	495.9
G21.0	519.6	509.2	491.0	485.2	486.5	496.4	508.7	502.7	490.6	489.1
G22.0	512.5	500.4	483.0	477.5	477.6	490.7	502.9	495.5	481.1	479.9
G23.0	506.8	494.2	475.1	471.2	470.7	482.7	494.0	486.9	473.4	472.9
G24.0	498.8	486.3	468.3	462.6	462.4	473.1	488.3	478.7	464.6	464.0
G25.0	491.4	479.5	460.2	455.4	453.6	467.2	478.9	468.7	456.8	457.4
G26.0	481.6	469.3	452.6	448.0	446.8	456.0	471.4	459.4	450.5	449.2
G27.0	473.9	461.6	444.0	439.9	438.2	446.8	461.0	450.9	442.2	443.2
G28.0	467.3	450.9	436.8	432.3	429.7	438.6	452.0	442.0	434.0	433.9
G29.0	457.7	444.5	427.8	425.3	422.8	427.7	441.9	431.6	425.0	426.3
G30.0	449.0	433.2	421.5	415.4	414.2	419.2	430.0	421.4	417.3	418.6
G31.0	439.0	423.6	412.6	407.5	406.2	409.6	419.2	411.6	408.3	411.3
G32.0	430.8	414.5	406.2	401.2	397.8	400.0	410.0	401.7	401.0	403.3
G33.0	420.8	405.1	397.7	391.8	388.3	389.8	398.8	392.1	391.9	393.8
G34.0	410.1	395.0	387.9	384.6	380.9	380.5	384.9	380.7	383.8	385.9
G35.0	399.9	387.0	380.1	374.5	372.1	370.1	372.2	371.4	376.9	377.9
G36.0	388.5	376.4	370.8	366.7	364.2	360.5	359.4	361.1	367.5	370.1

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: 11.655 m [K=1.0000]  
 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	376.7	367.5	363.4	359.6	355.5	349.8	346.8	349.9	358.6	362.0
G38.0	365.4	358.7	355.2	349.8	346.4	341.3	334.5	341.0	349.9	353.3
G39.0	354.9	347.1	346.2	342.4	336.5	329.7	320.0	328.8	340.2	345.1
G40.0	343.9	338.4	337.7	334.3	329.4	319.0	307.1	318.8	331.5	337.8
G41.0	331.5	329.0	329.5	326.6	320.0	308.4	295.9	308.3	321.9	329.5
G42.0	320.7	320.8	320.8	318.7	311.2	299.8	281.9	298.1	314.1	320.5
G43.0	308.7	309.8	310.4	311.8	302.8	288.4	270.4	287.4	304.3	312.2
G44.0	297.2	300.4	303.3	302.6	293.7	277.6	258.2	276.1	295.7	305.5
G45.0	286.7	291.2	294.5	296.4	286.5	268.1	246.9	266.0	287.0	297.2
G46.0	274.4	281.7	285.2	289.6	276.6	258.7	235.3	255.2	278.5	288.7
G47.0	264.2	271.2	277.0	281.7	267.5	248.5	223.8	244.6	269.2	282.1
G48.0	254.2	263.3	268.5	274.9	260.4	238.1	214.4	234.3	261.9	274.7
G49.0	244.1	253.3	261.2	268.3	251.6	228.5	204.2	225.0	253.4	267.7
G50.0	233.1	244.8	253.0	261.5	245.4	219.3	194.0	216.1	243.8	261.9
G51.0	222.7	234.5	245.4	253.6	235.8	210.9	184.3	206.5	235.4	254.5
G52.0	214.1	225.2	237.6	246.6	228.7	200.5	175.7	197.8	228.3	247.1
G53.0	205.7	217.4	230.1	240.1	221.3	191.4	168.4	188.8	220.7	241.3
G54.0	197.5	208.5	222.7	233.5	214.3	183.2	160.3	179.5	213.1	234.4
G55.0	188.2	199.5	215.4	226.4	206.7	174.7	151.6	170.9	205.3	226.9
G56.0	180.1	191.2	207.4	219.9	199.5	165.9	144.9	163.0	198.4	220.4
G57.0	172.3	183.2	201.2	212.7	192.4	158.1	137.8	154.6	190.7	213.5
G58.0	165.1	175.4	193.1	206.4	184.7	151.0	131.3	147.1	184.1	206.6
G59.0	158.4	167.3	186.3	199.0	177.9	142.3	124.0	139.4	176.8	198.4
G60.0	151.6	160.2	179.3	192.6	171.2	135.0	118.3	131.6	168.9	192.3
G61.0	144.9	152.7	172.6	185.8	164.6	128.4	112.5	124.8	162.2	184.5
G62.0	139.1	144.8	165.5	178.4	157.9	121.3	105.9	118.4	155.0	177.4
G63.0	131.9	137.9	158.2	171.0	150.0	115.0	101.0	112.1	147.6	169.7
G64.0	125.7	131.1	151.7	163.9	143.5	108.3	95.6	105.5	140.9	162.0
G65.0	119.5	124.4	145.2	156.6	136.9	102.5	90.3	99.8	134.4	154.5
G66.0	114.0	117.9	138.5	149.4	130.1	97.0	85.9	94.1	127.2	147.1
G67.0	107.4	111.9	131.0	141.4	123.2	91.4	80.6	88.1	120.4	138.4
G68.0	102.3	105.5	124.6	133.9	116.5	85.5	75.7	83.2	114.0	130.4
G69.0	96.8	100.3	118.0	125.7	110.6	80.5	71.1	77.9	107.2	122.6
G70.0	91.6	93.8	111.5	117.8	104.1	75.5	66.8	72.8	101.1	114.4
G71.0	86.0	88.5	105.1	109.9	97.5	70.0	62.1	67.8	94.5	106.4
G72.0	80.7	83.3	98.8	102.7	91.0	65.6	57.9	63.3	87.9	99.4
G73.0	76.0	78.3	92.3	95.8	85.0	61.4	53.9	58.8	81.8	92.2

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 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	70.4	72.8	85.4	88.1	79.1	56.8	50.0	54.5	75.6	85.8
G75.0	65.5	68.1	79.5	81.7	72.8	52.3	45.8	49.7	69.3	78.4
G76.0	61.1	63.3	73.3	74.8	66.9	48.1	42.1	45.9	63.7	71.5
G77.0	56.5	58.6	67.8	67.9	61.4	44.1	38.0	41.9	58.0	64.6
G78.0	52.3	54.3	62.4	61.8	55.7	39.9	33.6	37.8	51.8	57.7
G79.0	47.6	49.4	56.5	54.2	50.2	36.0	29.9	33.4	46.5	51.1
G80.0	43.3	45.0	51.2	47.7	44.2	31.7	26.5	29.6	41.0	45.2
G81.0	38.8	40.4	46.0	42.2	38.8	28.2	23.6	26.3	35.8	39.2
G82.0	34.3	35.9	40.5	36.7	33.8	25.2	20.4	23.4	30.8	33.7
G83.0	29.7	31.2	35.0	31.3	28.8	22.2	17.6	20.6	25.9	27.7
G84.0	25.8	27.6	30.3	25.5	24.3	19.2	15.3	17.6	21.9	22.9
G85.0	22.3	24.5	25.9	20.5	20.4	16.8	13.3	15.3	18.3	18.0
G86.0	19.3	21.5	22.0	16.0	17.0	14.6	11.1	13.2	15.1	13.6
G87.0	16.1	18.6	18.0	11.3	13.7	12.3	8.7	11.0	12.1	9.6
G88.0	13.1	16.2	15.0	8.7	11.0	10.0	5.9	8.4	9.5	7.7
G89.0	10.7	14.0	12.3	7.0	8.4	7.6	3.8	5.9	7.4	6.4
G90.0	8.9	12.1	9.9	5.6	6.3	5.0	2.1	3.5	5.0	5.1
G91.0	6.7	8.9	7.5	4.7	4.2	3.2	1.3	2.1	3.0	3.2
G92.0	3.5	6.4	5.5	4.0	2.9	2.0	0.0	1.4	2.0	2.5
G93.0	2.1	3.7	3.5	3.5	2.0	1.4	0.0	0.0	1.4	2.1
G94.0	1.2	2.1	2.7	3.0	1.3	0.0	0.0	0.0	0.0	1.7
G95.0	0.0	1.4	1.9	2.5	0.0	0.0	0.0	0.0	0.0	1.2
G96.0	0.0	0.0	1.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
G97.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
G98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G101.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G103.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G106.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G107.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

### Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G112.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G113.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G114.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G117.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G118.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G119.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G121.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G122.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G123.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G124.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G126.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G127.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G128.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G129.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G131.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
G132.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
G133.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
G134.0	0.0	0.9	0.0	0.9	1.0	1.0	0.0	1.3	0.0	0.9
G135.0	0.0	0.0	0.0	1.1	1.0	1.0	0.0	1.1	0.0	0.9
G136.0	0.0	0.0	0.0	1.0	1.0	1.1	0.0	1.1	0.0	0.9
G137.0	0.0	0.0	0.0	1.1	1.0	1.0	0.0	1.1	0.0	1.0
G138.0	0.0	0.0	0.0	1.0	1.2	1.2	0.0	1.2	1.1	1.0
G139.0	0.0	1.0	0.9	1.1	1.3	1.3	0.0	1.3	1.0	1.2
G140.0	0.0	1.1	1.0	1.3	1.2	1.3	0.0	1.3	1.1	1.2
G141.0	1.0	1.2	1.0	1.3	1.4	1.3	0.9	1.3	1.1	1.3
G142.0	1.1	1.1	0.0	1.4	1.3	1.3	0.0	1.2	1.2	1.3
G143.0	1.1	1.2	0.9	1.4	1.3	1.4	0.0	1.4	1.3	1.3
G144.0	1.0	1.3	1.4	1.5	1.4	1.4	0.9	1.4	1.2	1.3
G145.0	1.1	1.3	1.3	1.7	1.5	1.5	1.0	1.4	1.2	1.2
G146.0	1.2	1.3	1.4	1.9	1.4	1.6	1.0	1.6	1.3	1.2
G147.0	1.3	1.3	1.4	1.8	1.5	1.6	1.1	1.6	1.4	1.4

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: 11.655 m [K=1.0000]  
 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	1.2	1.3	1.4	1.9	1.6	1.6	1.0	1.6	1.4	1.3
G149.0	1.2	1.5	1.4	1.8	1.8	1.4	1.2	1.6	1.3	1.3
G150.0	1.4	1.5	1.5	1.7	1.6	1.6	1.1	1.6	1.4	1.4
G151.0	1.4	1.6	1.6	1.9	1.6	1.6	1.3	1.8	1.4	1.3
G152.0	1.4	1.6	1.7	1.9	1.7	1.6	1.4	1.7	1.4	1.5
G153.0	1.7	1.7	1.6	2.0	1.9	1.6	1.4	1.8	1.4	1.6
G154.0	1.7	1.6	1.8	1.9	2.0	1.7	1.5	1.8	1.5	1.6
G155.0	1.8	1.6	1.9	1.8	1.9	1.8	1.5	1.9	1.6	1.6
G156.0	1.9	1.6	1.9	1.8	2.1	1.8	1.4	1.9	1.7	1.6
G157.0	1.9	1.6	1.9	1.9	2.1	1.8	1.5	2.0	1.6	1.6
G158.0	1.8	1.8	1.8	1.9	2.1	1.9	1.6	1.9	1.7	1.6
G159.0	1.9	1.7	1.7	1.9	2.2	1.9	1.5	2.0	1.7	1.7
G160.0	2.0	1.8	1.8	2.0	2.2	1.9	1.6	2.1	1.6	1.8
G161.0	2.0	1.9	1.9	2.0	2.2	1.9	1.6	2.0	1.6	2.0
G162.0	2.1	1.9	2.0	2.1	2.1	1.9	1.8	2.1	1.6	2.0
G163.0	2.0	2.0	2.0	2.2	2.1	2.0	1.7	2.0	1.7	1.9
G164.0	1.8	2.0	1.9	2.1	2.1	2.0	1.6	2.0	1.8	2.1
G165.0	2.0	2.0	2.0	2.0	2.2	2.1	1.7	2.1	1.6	2.0
G166.0	2.1	1.8	2.0	2.1	2.2	2.0	1.7	2.0	1.6	2.0
G167.0	2.2	2.0	2.0	2.1	2.2	2.1	1.8	2.1	1.7	2.0
G168.0	2.1	2.0	2.0	2.2	2.3	2.2	2.0	2.2	1.9	2.0
G169.0	2.3	2.0	2.2	2.1	2.3	2.1	2.0	2.2	1.8	2.1
G170.0	2.2	2.0	2.1	2.2	2.3	2.1	2.0	2.2	1.7	2.2
G171.0	1.9	2.1	2.2	2.3	2.3	2.2	1.9	2.2	2.0	2.1
G172.0	2.0	2.1	2.1	2.2	2.4	2.1	1.9	2.2	2.1	2.3
G173.0	2.0	2.1	2.0	2.2	2.5	2.3	1.9	2.3	2.1	2.2
G174.0	2.1	2.2	2.1	2.3	2.5	2.1	2.0	2.3	2.0	2.2
G175.0	1.9	2.2	2.0	2.4	2.5	2.3	2.0	2.3	1.9	2.2
G176.0	2.1	2.3	2.0	2.3	2.5	2.3	2.0	2.2	2.0	2.1
G177.0	2.2	2.2	2.3	2.3	2.4	2.2	2.0	2.3	2.2	2.2
G178.0	2.3	2.3	2.6	2.3	2.3	2.2	2.0	2.3	2.1	2.2
G179.0	2.2	2.4	2.7	2.3	2.7	2.4	2.0	2.3	2.2	2.2
G180.0	2.3	2.5	2.5	2.2	2.6	2.5	2.0	2.4	2.3	2.3

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	573.0	571.3	577.5						
G1.0	572.5	569.0	578.2						
G2.0	571.4	569.1	577.5						
G3.0	570.3	569.9	577.9						
G4.0	570.4	567.3	574.5						
G5.0	567.4	566.3	572.8						
G6.0	565.6	565.5	571.9						
G7.0	565.6	560.2	568.1						
G8.0	561.3	559.0	568.1						
G9.0	558.5	557.4	565.5						
G10.0	555.0	553.8	561.0						
G11.0	550.4	550.3	560.3						
G12.0	546.3	548.2	556.4						
G13.0	541.4	543.4	554.2						
G14.0	536.8	539.0	551.2						
G15.0	530.7	536.6	547.3						
G16.0	525.4	531.1	542.3						
G17.0	518.3	525.6	539.9						
G18.0	513.6	522.6	535.3						
G19.0	503.6	515.9	531.4						
G20.0	497.3	509.4	526.0						
G21.0	489.3	505.9	519.6						
G22.0	481.7	497.3	512.5						
G23.0	474.2	488.5	506.8						
G24.0	464.4	480.8	498.8						
G25.0	457.9	472.4	491.4						
G26.0	448.7	463.0	481.6						
G27.0	442.6	453.9	473.9						
G28.0	435.3	445.8	467.3						
G29.0	426.6	435.0	457.7						
G30.0	419.2	426.6	449.0						
G31.0	411.6	416.4	439.0						
G32.0	402.9	407.3	430.8						
G33.0	396.5	398.0	420.8						
G34.0	386.8	388.2	410.1						
G35.0	377.7	380.2	399.9						
G36.0	370.8	370.3	388.5						

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	363.0	359.1	376.7						
G38.0	353.7	350.4	365.4						
G39.0	345.2	339.9	354.9						
G40.0	337.0	332.5	343.9						
G41.0	327.8	322.6	331.5						
G42.0	319.3	313.1	320.7						
G43.0	311.4	303.5	308.7						
G44.0	302.5	293.8	297.2						
G45.0	294.6	285.2	286.7						
G46.0	285.5	275.1	274.4						
G47.0	276.5	265.1	264.2						
G48.0	268.5	257.3	254.2						
G49.0	260.6	247.5	244.1						
G50.0	252.6	237.9	233.1						
G51.0	245.3	229.5	222.7						
G52.0	237.2	221.3	214.1						
G53.0	229.3	212.0	205.7						
G54.0	222.9	203.8	197.5						
G55.0	215.1	196.0	188.2						
G56.0	207.2	187.6	180.1						
G57.0	200.2	180.2	172.3						
G58.0	193.9	170.8	165.1						
G59.0	185.6	164.0	158.4						
G60.0	178.2	156.8	151.6						
G61.0	172.0	149.1	144.9						
G62.0	164.8	141.2	139.1						
G63.0	157.4	135.1	131.9						
G64.0	150.2	128.1	125.7						
G65.0	144.0	121.0	119.5						
G66.0	136.1	114.7	114.0						
G67.0	129.6	108.6	107.4						
G68.0	122.4	103.2	102.3						
G69.0	116.0	97.5	96.8						
G70.0	109.4	91.4	91.6						
G71.0	102.4	86.0	86.0						
G72.0	96.1	81.0	80.7						
G73.0	89.5	75.9	76.0						

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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	82.6	70.3	70.4							
G75.0	76.7	65.7	65.5							
G76.0	70.6	61.1	61.1							
G77.0	65.1	56.4	56.5							
G78.0	59.0	51.8	52.3							
G79.0	53.4	47.2	47.6							
G80.0	48.2	42.6	43.3							
G81.0	42.6	38.3	38.8							
G82.0	36.9	33.8	34.3							
G83.0	31.9	30.1	29.7							
G84.0	27.5	26.8	25.8							
G85.0	23.2	23.6	22.3							
G86.0	19.6	20.4	19.3							
G87.0	15.8	18.0	16.1							
G88.0	13.1	15.7	13.1							
G89.0	10.7	13.7	10.7							
G90.0	8.3	11.0	8.9							
G91.0	6.4	8.1	6.7							
G92.0	4.4	5.2	3.5							
G93.0	3.2	3.3	2.1							
G94.0	2.3	2.3	1.2							
G95.0	1.8	1.5	0.0							
G96.0	1.1	0.9	0.0							
G97.0	0.0	0.0	0.0							
G98.0	0.0	0.0	0.0							
G99.0	0.0	0.0	0.0							
G100.0	0.0	0.0	0.0							
G101.0	0.0	0.0	0.0							
G102.0	0.0	0.0	0.0							
G103.0	0.0	0.0	0.0							
G104.0	0.0	0.0	0.0							
G105.0	0.0	0.0	0.0							
G106.0	0.0	0.0	0.0							
G107.0	0.0	0.0	0.0							
G108.0	0.0	0.0	0.0							
G109.0	0.0	0.0	0.0							
G110.0	0.0	0.0	0.0							

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: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:



## Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G111.0	0.0	0.0	0.0						
G112.0	0.0	0.0	0.0						
G113.0	0.0	0.0	0.0						
G114.0	0.0	0.0	0.0						
G115.0	0.0	0.0	0.0						
G116.0	0.0	0.0	0.0						
G117.0	0.0	0.0	0.0						
G118.0	0.0	0.0	0.0						
G119.0	0.0	0.0	0.0						
G120.0	0.0	0.0	0.0						
G121.0	0.0	0.0	0.0						
G122.0	0.0	0.0	0.0						
G123.0	0.0	0.0	0.0						
G124.0	0.0	0.0	0.0						
G125.0	0.0	0.0	0.0						
G126.0	0.0	0.9	0.0						
G127.0	0.0	0.0	0.0						
G128.0	0.0	0.0	0.0						
G129.0	0.0	0.0	0.0						
G130.0	0.0	0.0	0.0						
G131.0	1.0	0.9	0.0						
G132.0	0.0	1.1	0.0						
G133.0	1.0	1.1	0.0						
G134.0	0.9	1.2	0.0						
G135.0	1.1	1.2	0.0						
G136.0	1.1	1.3	0.0						
G137.0	1.1	1.4	0.0						
G138.0	1.3	1.4	0.0						
G139.0	1.4	1.3	0.0						
G140.0	1.4	1.2	0.0						
G141.0	1.4	1.3	1.0						
G142.0	1.4	1.3	1.1						
G143.0	1.5	1.4	1.1						
G144.0	1.4	1.5	1.0						
G145.0	1.4	1.5	1.1						
G146.0	1.4	1.6	1.2						
G147.0	1.6	1.5	1.3						

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	1.6	1.6	1.2							
G149.0	1.7	1.7	1.2							
G150.0	1.7	1.7	1.4							
G151.0	1.6	1.7	1.4							
G152.0	1.7	1.9	1.4							
G153.0	1.7	1.9	1.7							
G154.0	1.8	2.0	1.7							
G155.0	2.0	2.0	1.8							
G156.0	1.9	2.0	1.9							
G157.0	1.9	2.0	1.9							
G158.0	1.9	2.0	1.8							
G159.0	1.9	2.1	1.9							
G160.0	2.1	2.3	2.0							
G161.0	1.9	2.3	2.0							
G162.0	2.0	2.2	2.1							
G163.0	2.1	2.3	2.0							
G164.0	2.2	2.4	1.8							
G165.0	2.2	2.4	2.0							
G166.0	2.2	2.4	2.1							
G167.0	2.2	2.3	2.2							
G168.0	2.2	2.4	2.1							
G169.0	2.1	2.4	2.3							
G170.0	2.2	2.6	2.2							
G171.0	2.3	2.3	1.9							
G172.0	2.3	2.4	2.0							
G173.0	2.4	2.4	2.0							
G174.0	2.3	2.2	2.1							
G175.0	2.4	2.3	1.9							
G176.0	2.5	2.3	2.1							
G177.0	2.3	2.3	2.2							
G178.0	2.3	2.3	2.3							
G179.0	2.3	2.3	2.2							
G180.0	2.3	2.7	2.3							

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector: