

Report No.:

Test Time: 2022/8/20 08:33

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 490686 LED-MF-12W-2700K-12V

Voltage: 11.8 V

Current: 1.095 A

Power: 11.76 W

Power Factor: 0.906

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 1218.0 lm

Measurement Flux: 1218 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(10%,50%,75%,100%): H148.9,H87.1,H62.4,H5

Vertical Diffuse Angle(10%,50%,75%,100%): V156.6,V93,V56.6,V5

Luminaire Efficacy Rating (LER): 103.62

Central Intensity: 545.35 cd

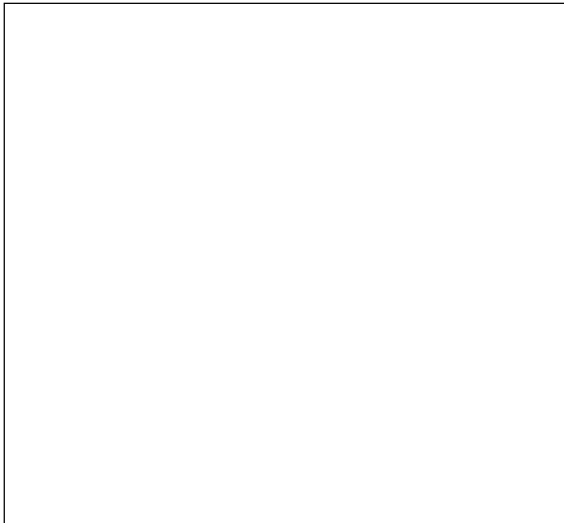
Max. Intensity: 552.58 cd

Pos of Max. Intensity: H180 V5

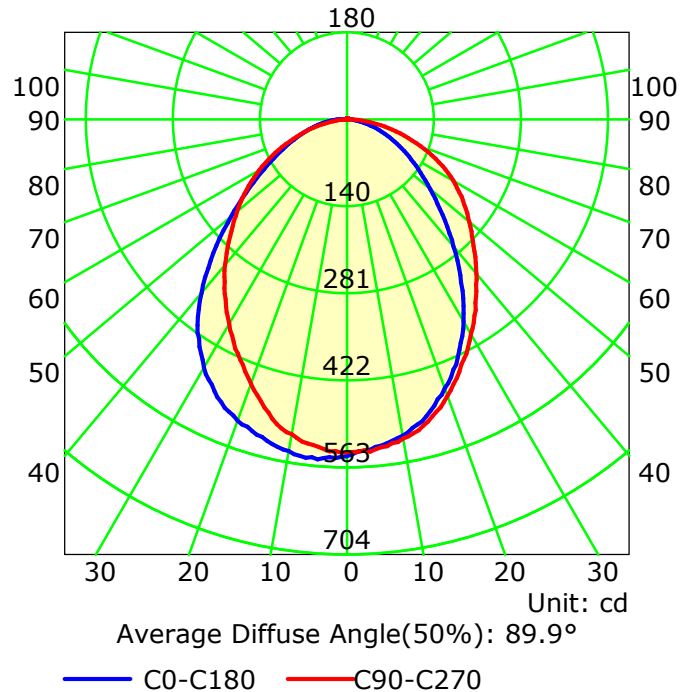
S/MH(C0/C180): 1.16

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]

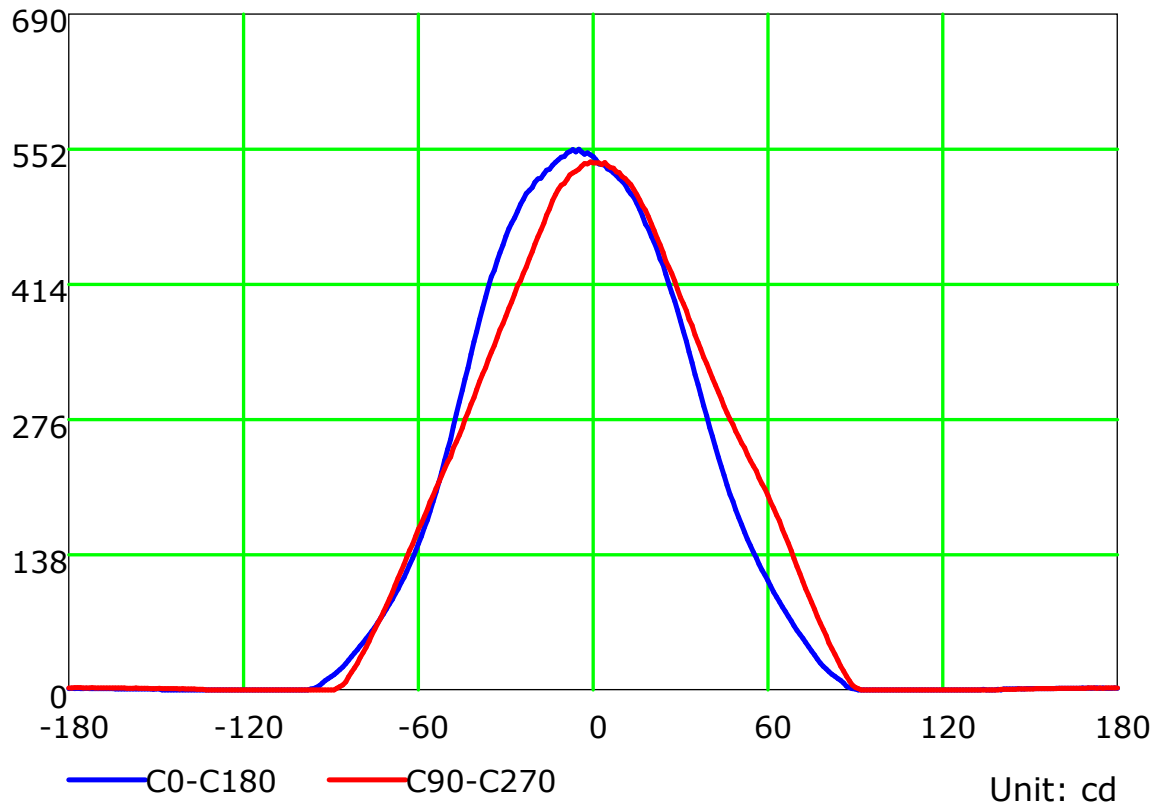
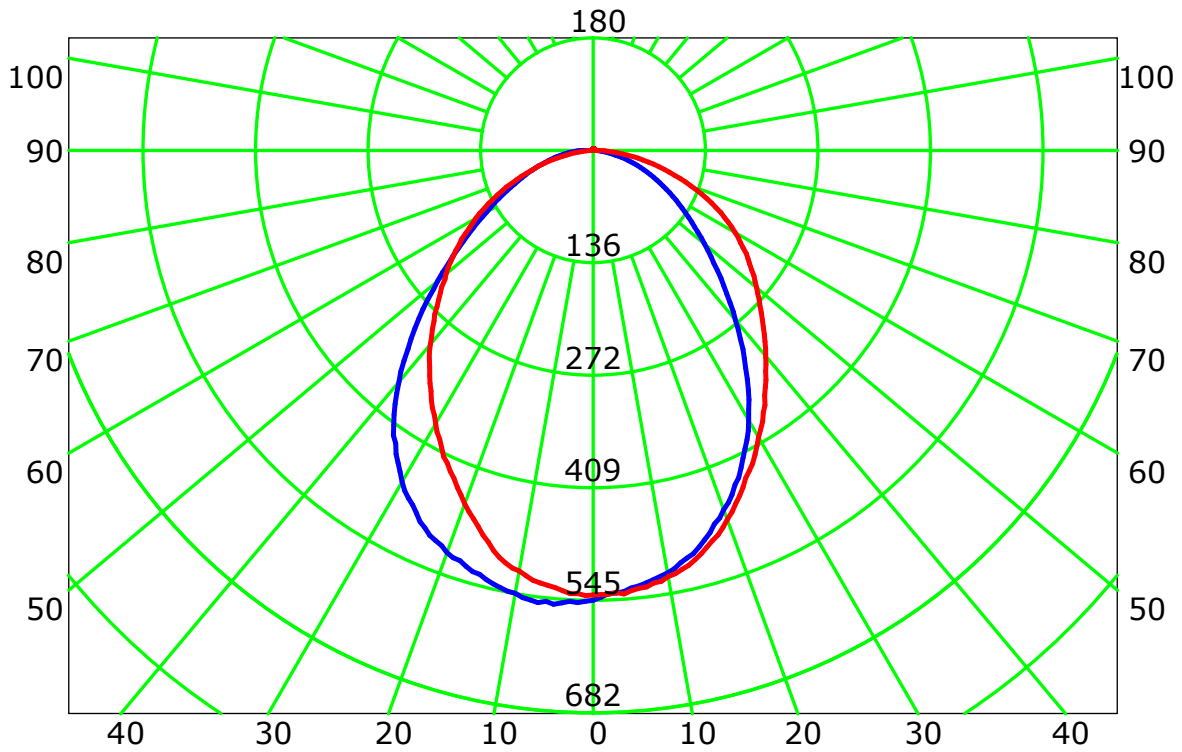
Temperature:

Humidity:

Operator:

Inspector:

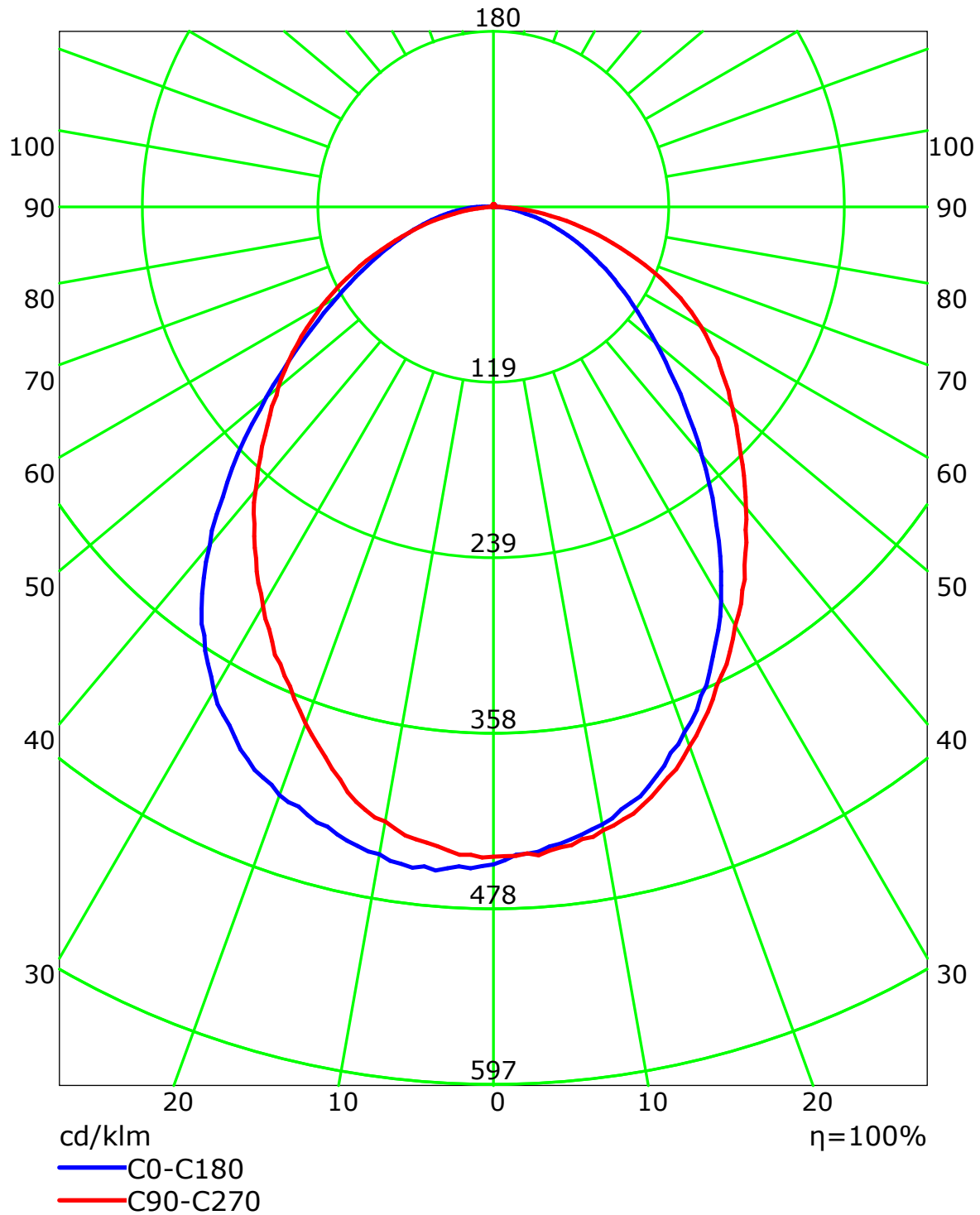
Luminous Intensity Distribution Curve



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)



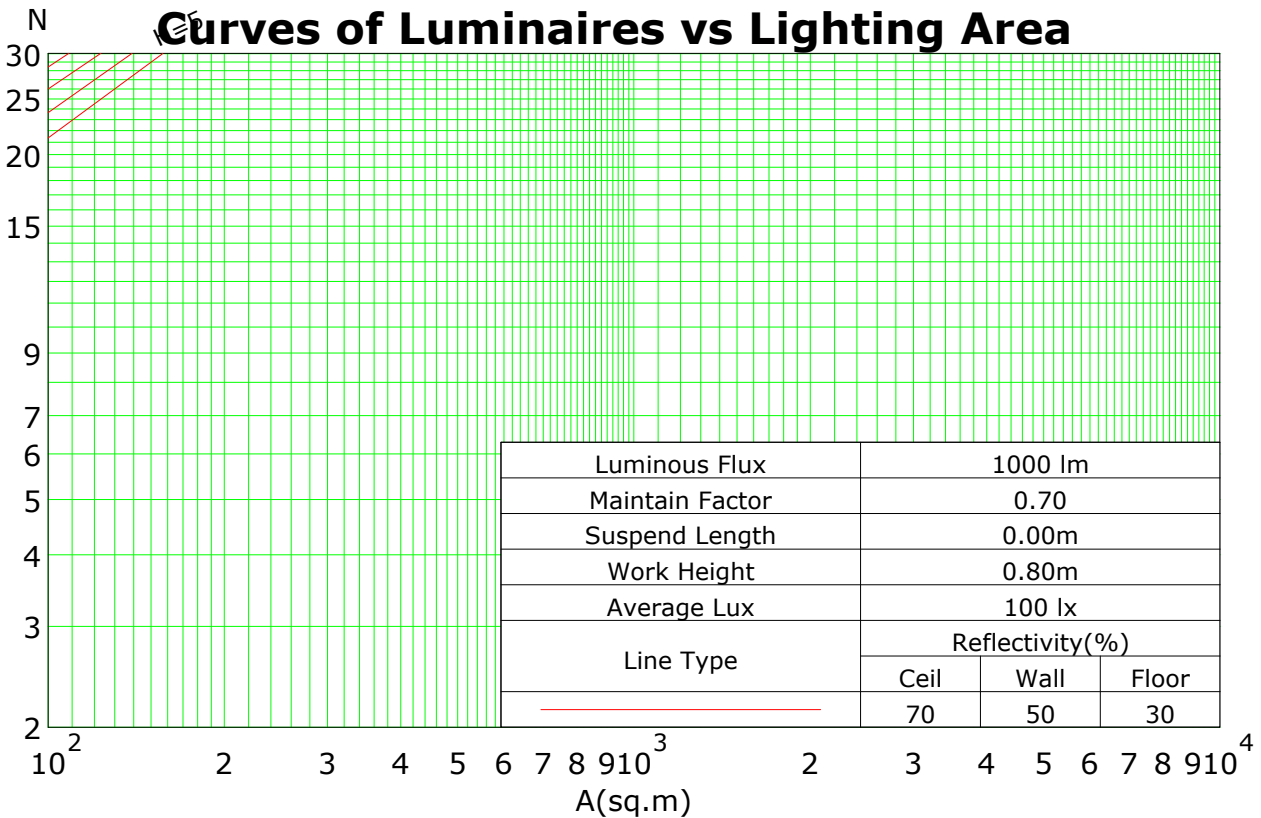
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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	95	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	67	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	66	57	51	76	65	57	51	62	55	50	61	54	49	59	53	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	66	54	45	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	35	45	40	35	33
9	59	46	38	33	57	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	29	39	33	29	28

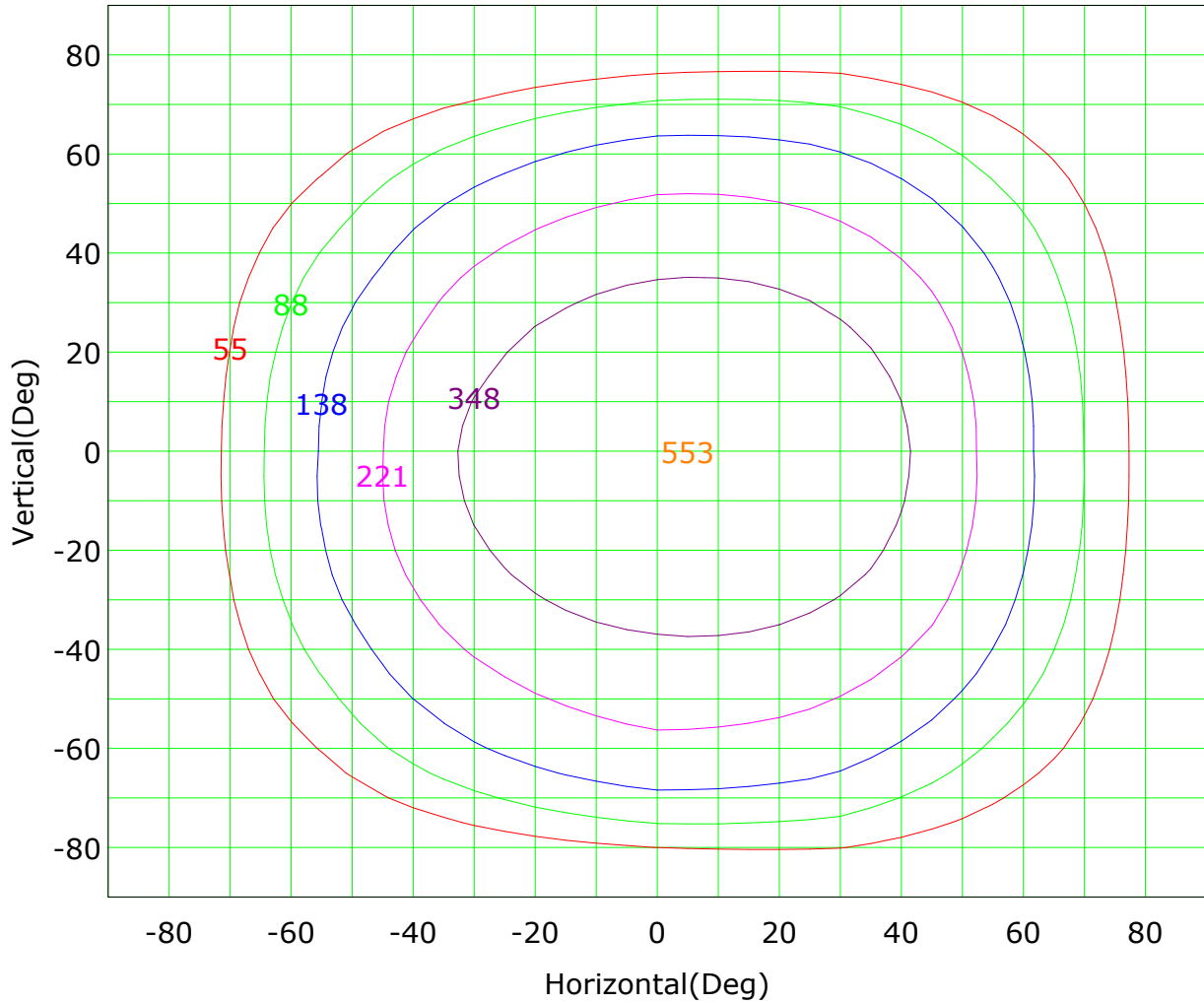
Spacing Criteria (0-180): 1.16
 Spacing Criteria (90-270): 1.10
 Spacing Criteria (Diagonal): 1.21



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)



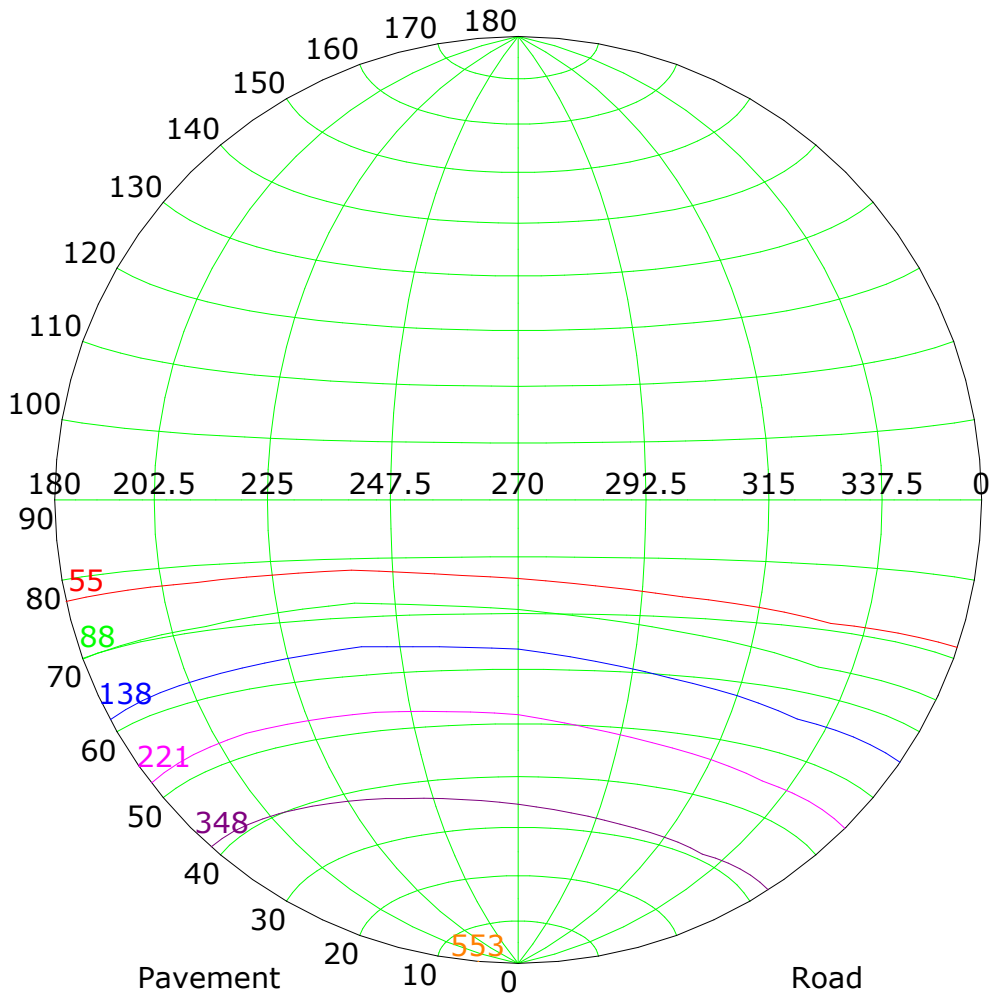
Imax (100%): 553 cd

— (10%):	55 cd	— (16%):	88 cd
— (25%):	138 cd	— (40%):	221 cd
— (63%):	348 cd	— (100%):	553 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)



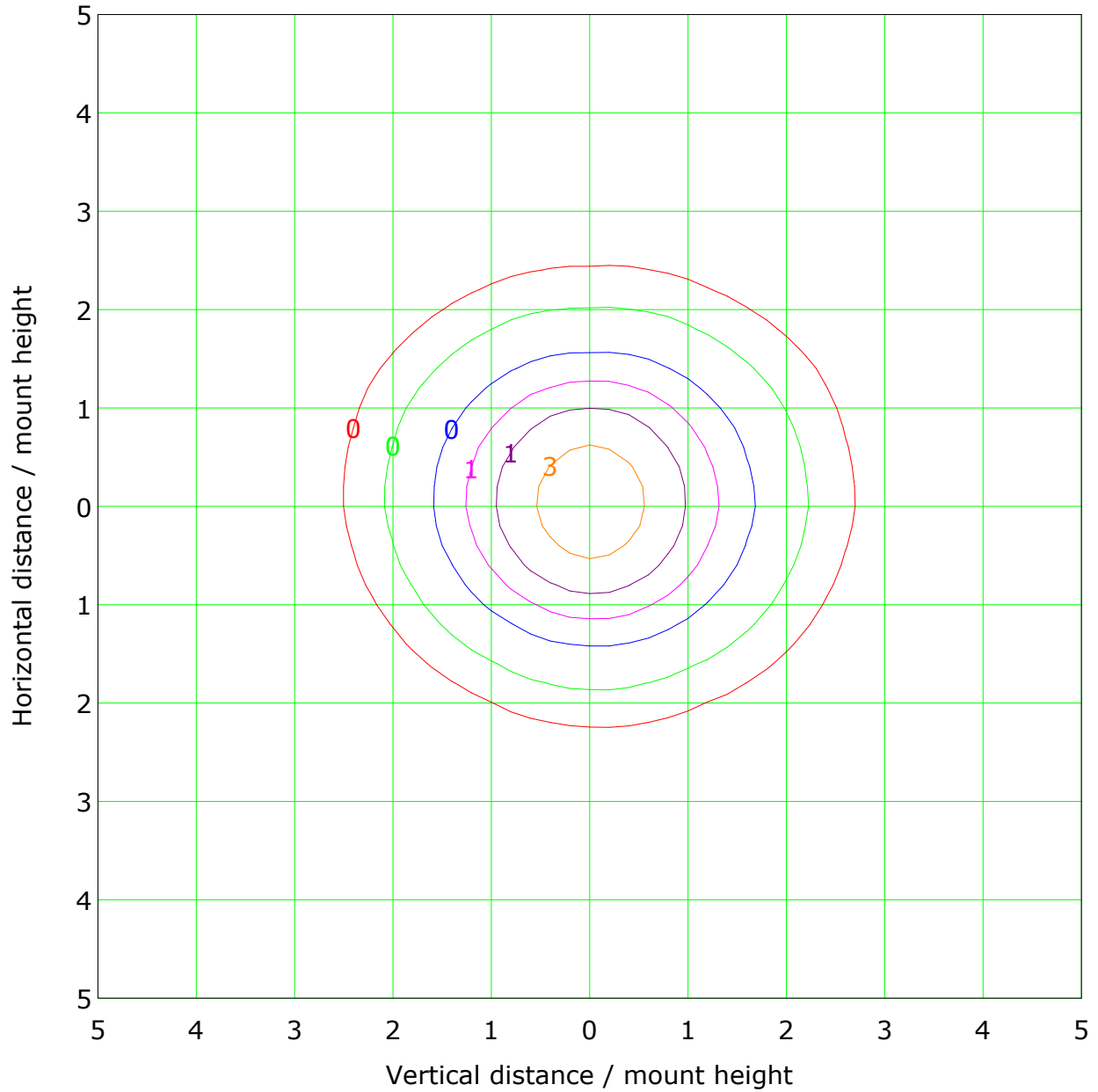
Imax (100%): 553 cd

— (10%): 55 cd	— (16%): 88 cd
— (25%): 138 cd	— (40%): 221 cd
— (63%): 348 cd	— (100%): 553 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%): 5.5 lx

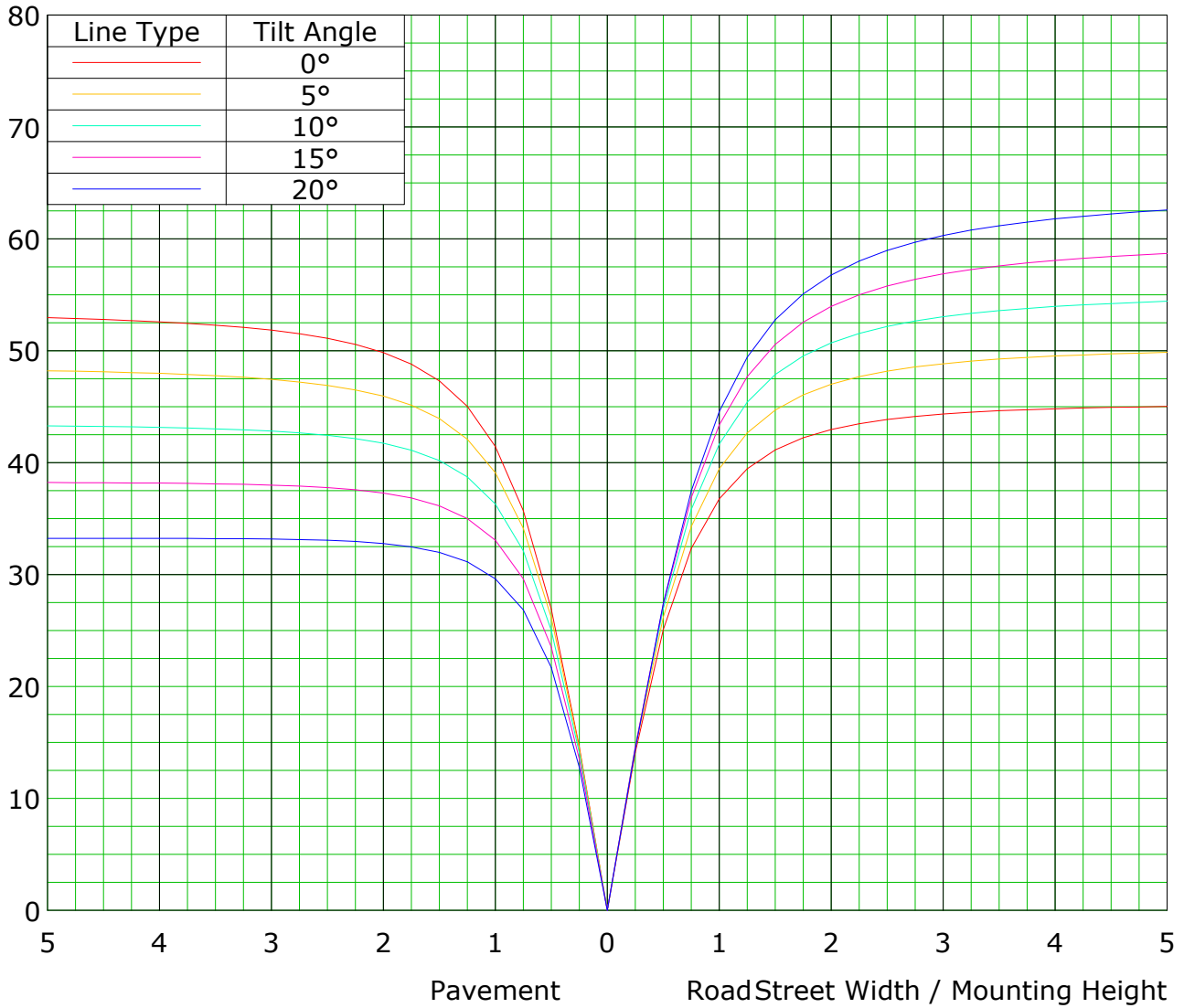
— (1%): 0.1 lx	— (2%): 0.1 lx
— (5%): 0.3 lx	— (10%): 0.5 lx
— (20%): 1.1 lx	— (50%): 2.7 lx
— (100%): 5.5 lx	

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:

Roadway CU Curve

Efficiency(%)

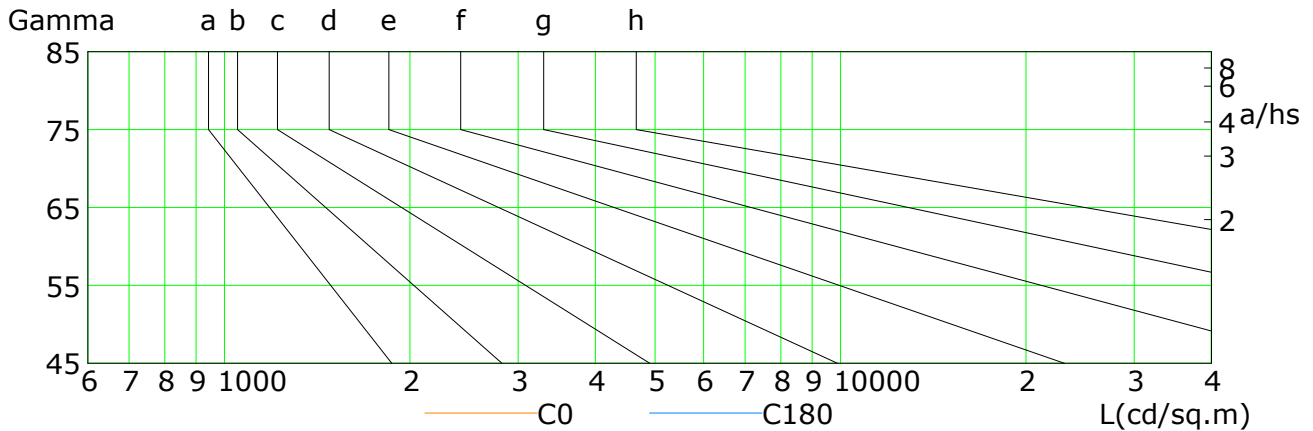
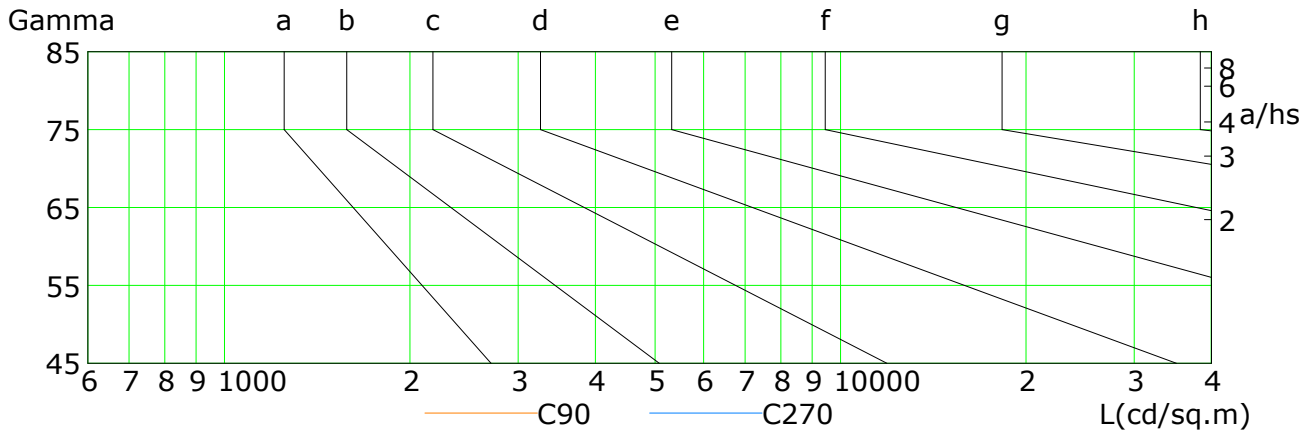


C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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

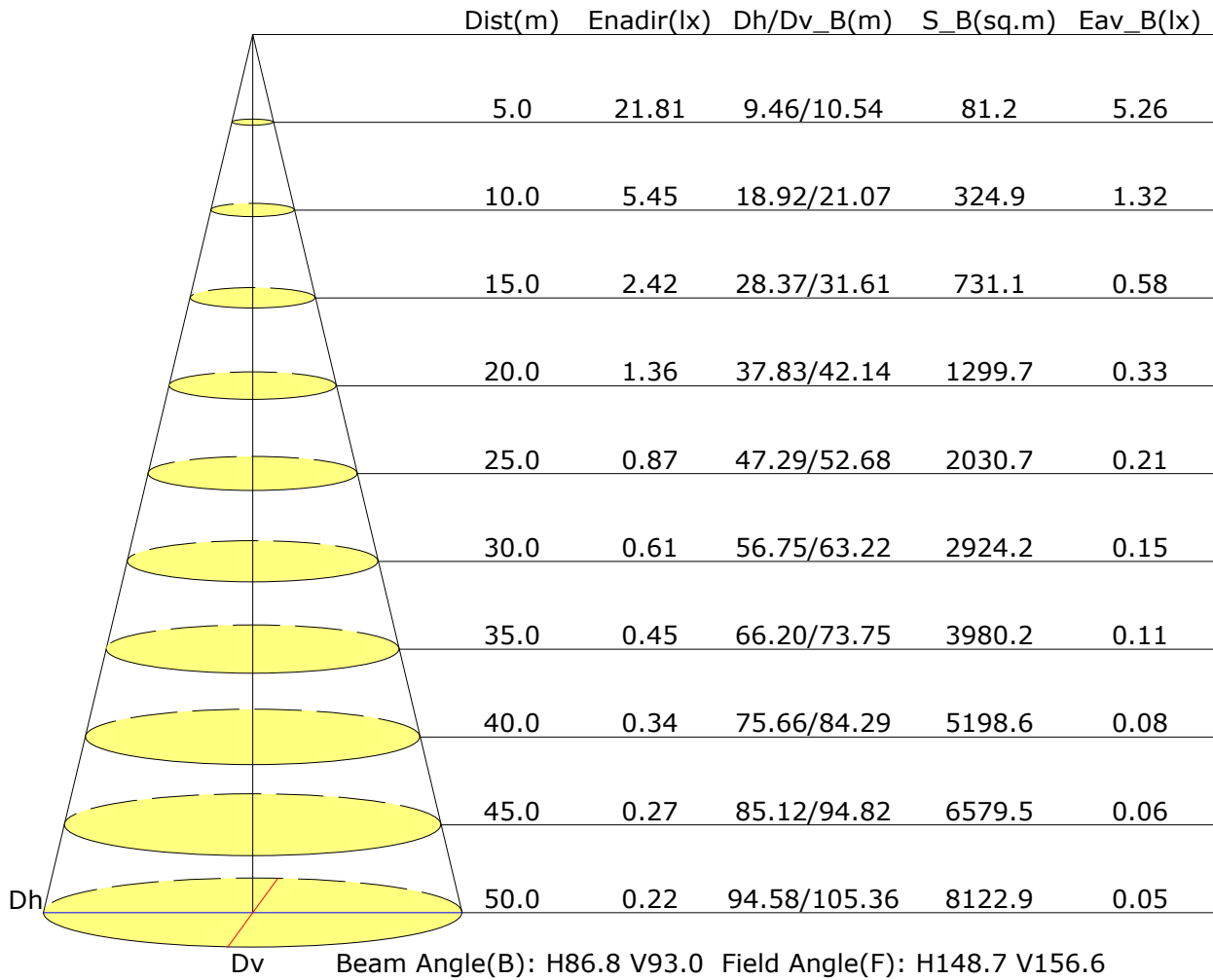


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	220	176	141	112	85	61	40	22	10
C90	290	259	229	199	165	126	90	56	25
C180	307	246	192	150	115	88	64	45	27
C270	268	233	199	164	128	93	62	33	9

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

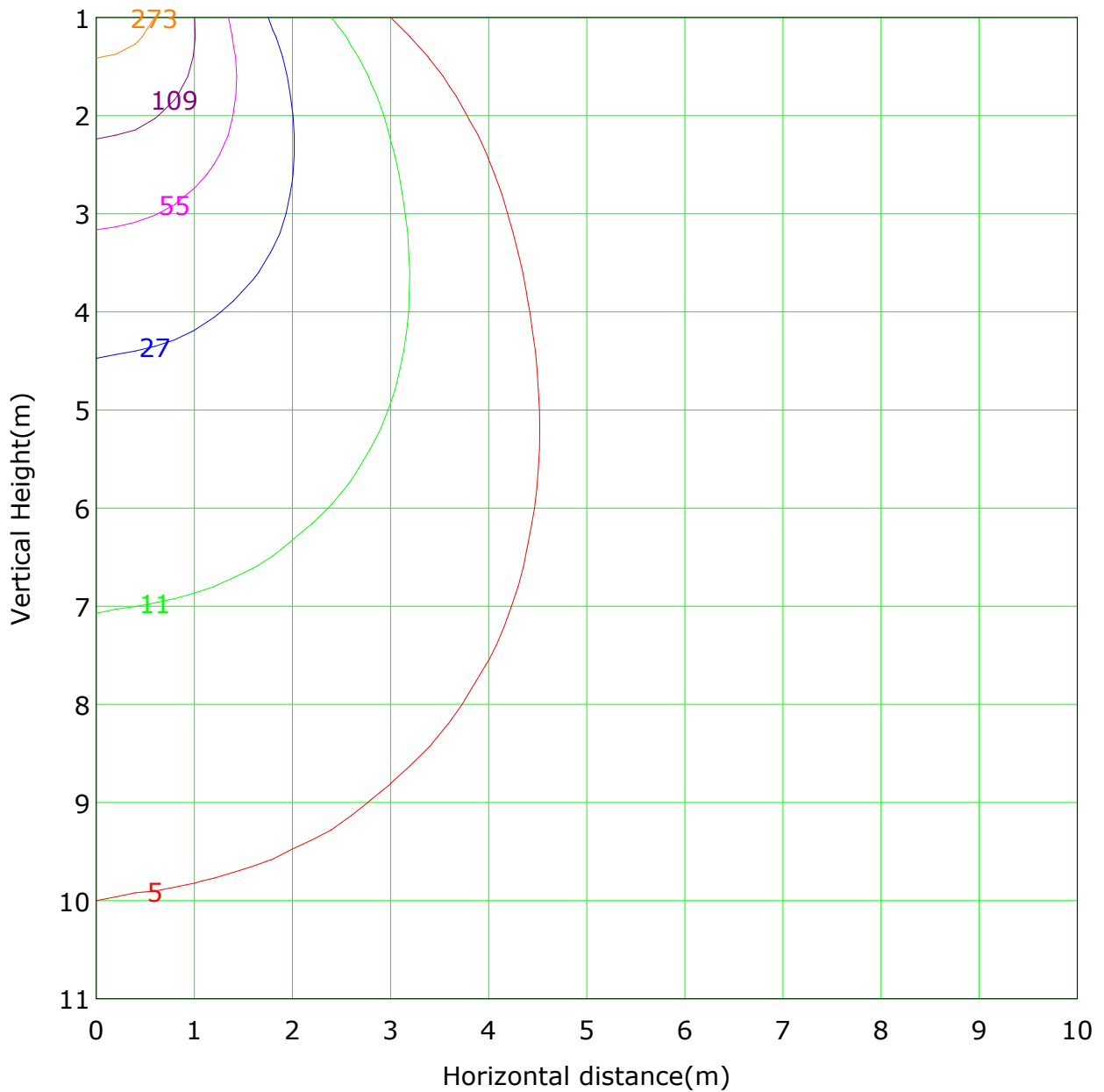
Illuminance at a Distance



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: 545.3 lx
— (1%): 5.5 lx	— (2%): 10.9 lx	
— (5%): 27.3 lx	— (10%): 54.5 lx	
— (20%): 109.1 lx	— (50%): 272.7 lx	
— (100%): 545.3 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:

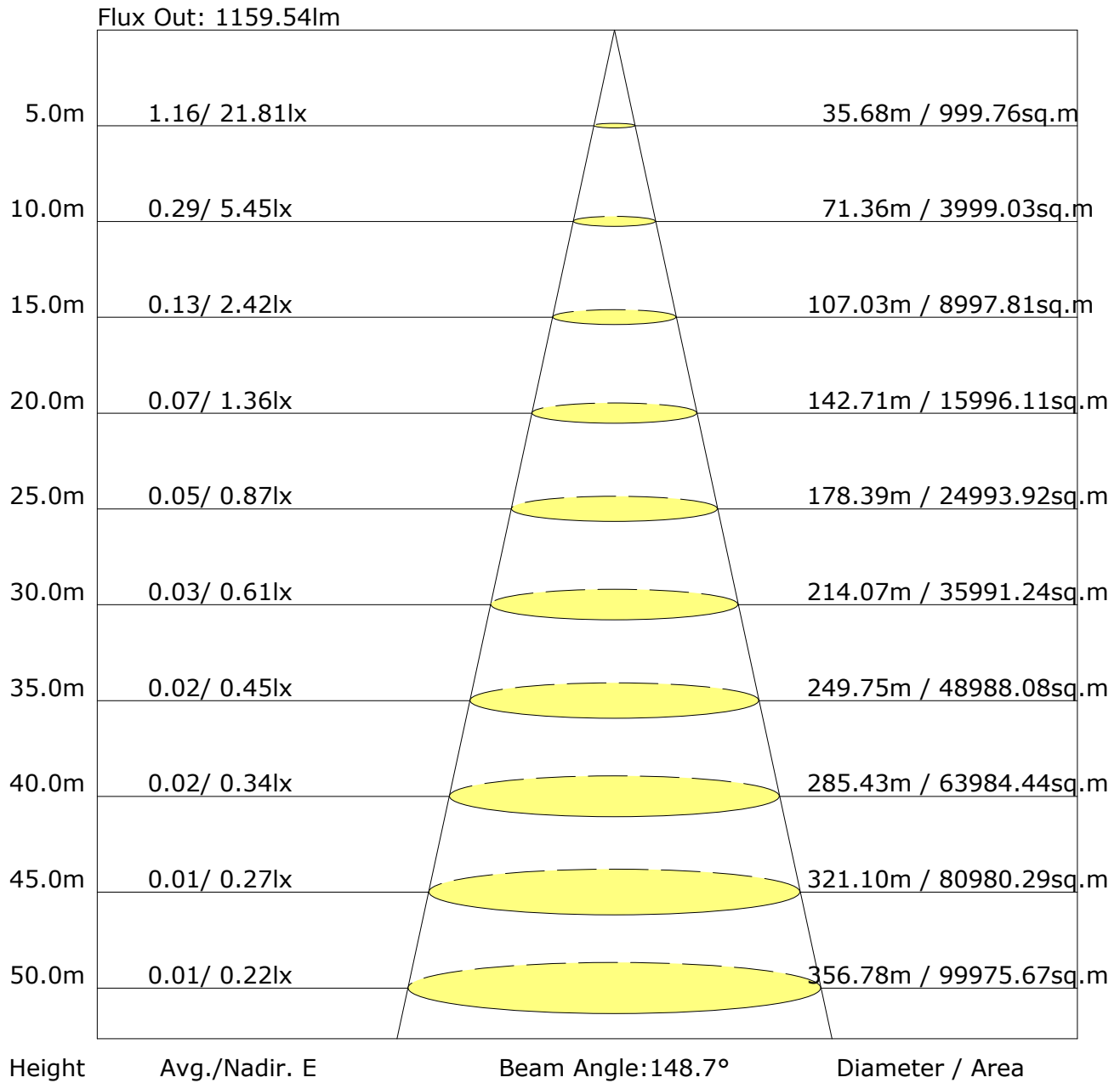
Area Flux Table

		Vertical plane																							
		Unit: lm																							
		-90	-80	-70	-60	-50	-40	-30	-20	-10	00	10	20	30	40	50	60	70	80	90	Flux(E)	Flux(T)			
Horizontal plane	-90	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.4	8.1	10.5	12.2	12.8	12.4	11.0	8.8	6.2	3.9	2.1	1.0	0.3	0.0	0.0	4.3	0.0
	-80	0.0	0.2	0.4	0.7	1.0	1.4	1.7	1.9	1.9	1.8	1.5	1.2	0.8	0.5	0.3	0.2	0.1	0.0	0.1	0.0	0.0	0.0	15.7	7.9
	-70	0.1	0.2	0.6	1.1	1.8	2.6	3.3	3.7	3.9	3.7	3.2	2.5	1.8	1.2	0.6	0.3	0.1	0.0	0.1	0.0	0.0	0.0	30.7	27.9
	-60	0.1	0.3	0.8	1.5	2.6	3.9	5.0	5.7	6.0	5.8	5.0	4.0	2.9	1.8	1.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	47.0	45.5
	-50	0.1	0.4	1.0	2.0	3.5	5.2	6.8	7.8	8.2	7.9	6.9	5.5	4.0	2.5	1.4	0.6	0.2	0.0	0.0	0.0	0.0	0.0	64.2	63.2
	-40	0.1	0.4	1.2	2.5	4.5	6.7	8.7	10.0	10.5	10.2	9.0	7.2	5.1	3.2	1.8	0.8	0.2	0.0	0.0	0.0	0.0	0.0	82.2	81.5
	-30	0.1	0.5	1.4	3.0	5.4	8.1	10.5	12.2	12.8	12.4	11.0	8.8	6.2	3.9	2.1	1.0	0.3	0.0	0.0	0.0	0.0	0.0	99.5	98.9
	-20	0.1	0.5	1.5	3.3	6.1	9.4	12.2	14.2	15.1	14.5	12.8	10.2	7.2	4.4	2.4	1.1	0.3	0.0	0.0	0.0	0.0	0.0	115.2	114.7
	-10	0.1	0.5	1.5	3.4	6.5	10.2	13.3	15.4	16.4	15.8	14.2	11.4	7.9	4.7	2.5	1.1	0.3	0.0	0.0	0.0	0.0	0.0	125.3	124.8
	00	0.1	0.5	1.5	3.4	6.6	10.3	13.4	15.4	16.3	16.0	14.4	11.5	8.0	4.8	2.5	1.1	0.3	0.0	0.0	0.0	0.0	0.0	126.4	125.9
	10	0.1	0.5	1.5	3.3	6.2	9.6	12.6	14.5	15.4	15.0	13.4	10.7	7.6	4.6	2.5	1.1	0.3	0.0	0.0	0.0	0.0	0.0	119.0	118.5
	20	0.1	0.5	1.5	3.1	5.6	8.5	11.0	12.7	13.4	13.0	11.6	9.4	6.7	4.2	2.2	1.0	0.3	0.0	0.0	0.0	0.0	0.0	104.7	104.2
	30	0.1	0.5	1.4	2.7	4.8	7.1	9.1	10.5	11.1	10.8	9.6	7.8	5.6	3.5	1.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0	87.6	87.0
	40	0.1	0.4	1.1	2.2	3.8	5.7	7.3	8.4	8.9	8.6	7.6	6.2	4.5	2.9	1.6	0.7	0.2	0.0	0.0	0.0	0.0	0.0	70.1	69.3
	50	0.1	0.3	0.9	1.7	2.9	4.3	5.6	6.5	6.9	6.7	5.9	4.8	3.4	2.2	1.2	0.6	0.2	0.0	0.0	0.0	0.0	0.0	54.1	52.9
	60	0.1	0.3	0.7	1.2	2.1	3.1	4.0	4.6	4.9	4.8	4.1	3.3	2.3	1.5	0.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	38.2	36.2
	70	0.0	0.2	0.5	0.8	1.3	1.9	2.4	2.6	2.7	2.6	2.2	1.8	1.3	0.8	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	21.9	17.1
	80	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.9	0.8	0.8	0.7	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0
90	1.2	6.6	17.6	36.7	65.8	99.2	128.4	147.5	155.8	150.6	133.5	106.9	75.9	47.0	25.5	11.6	3.6	0.4	0.0	0.0	0.0	0.0	1214		
	0.0	3.3	15.0	34.4	63.7	97.3	126.6	145.8	154.0	148.9	131.7	104.9	73.8	44.6	22.8	8.5	0.2	0.0	0.0	0.0	0.0	0.0	1176		

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

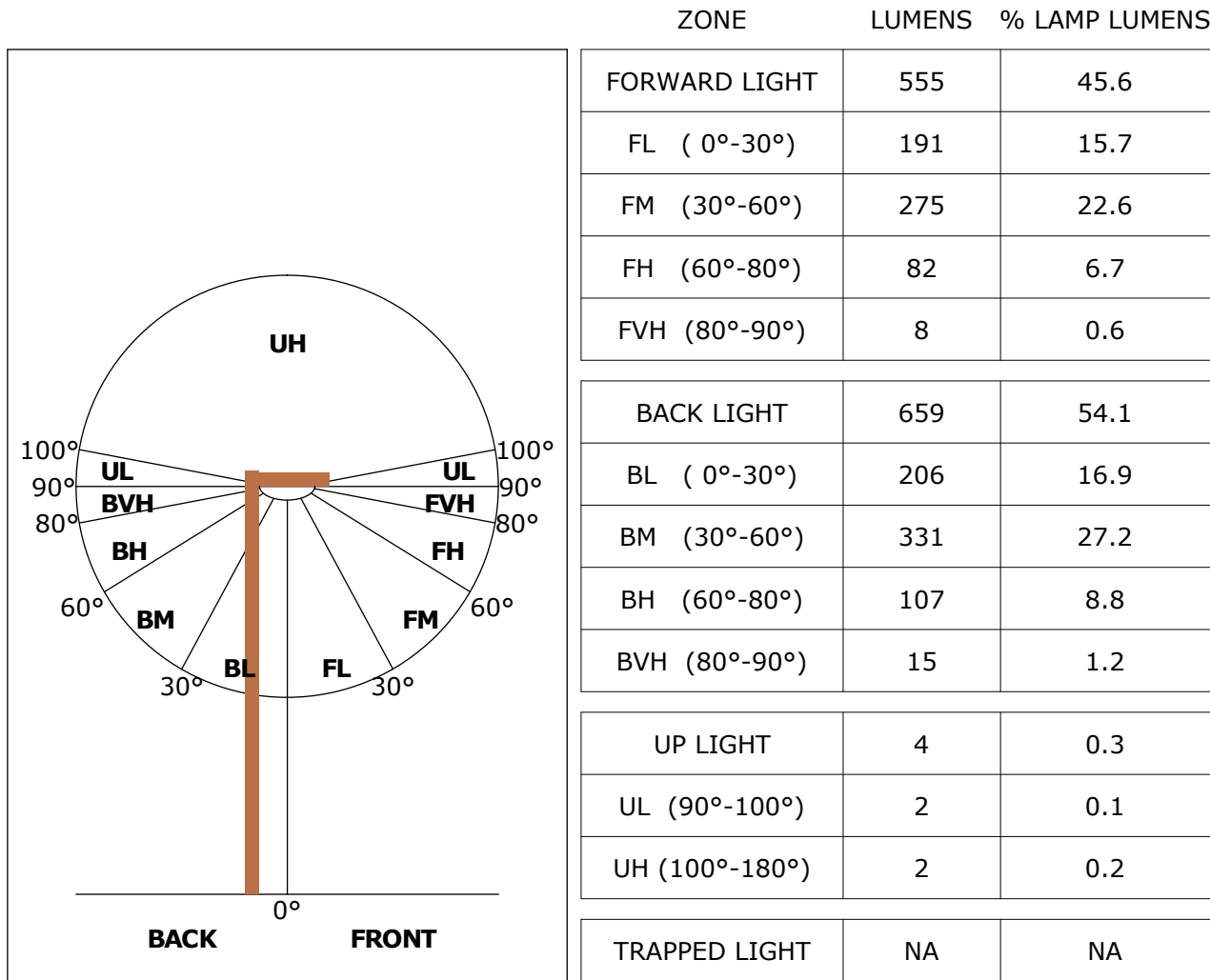
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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.\$					-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 1218lm ($8\log(F/F_0) = 0.7$).

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

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

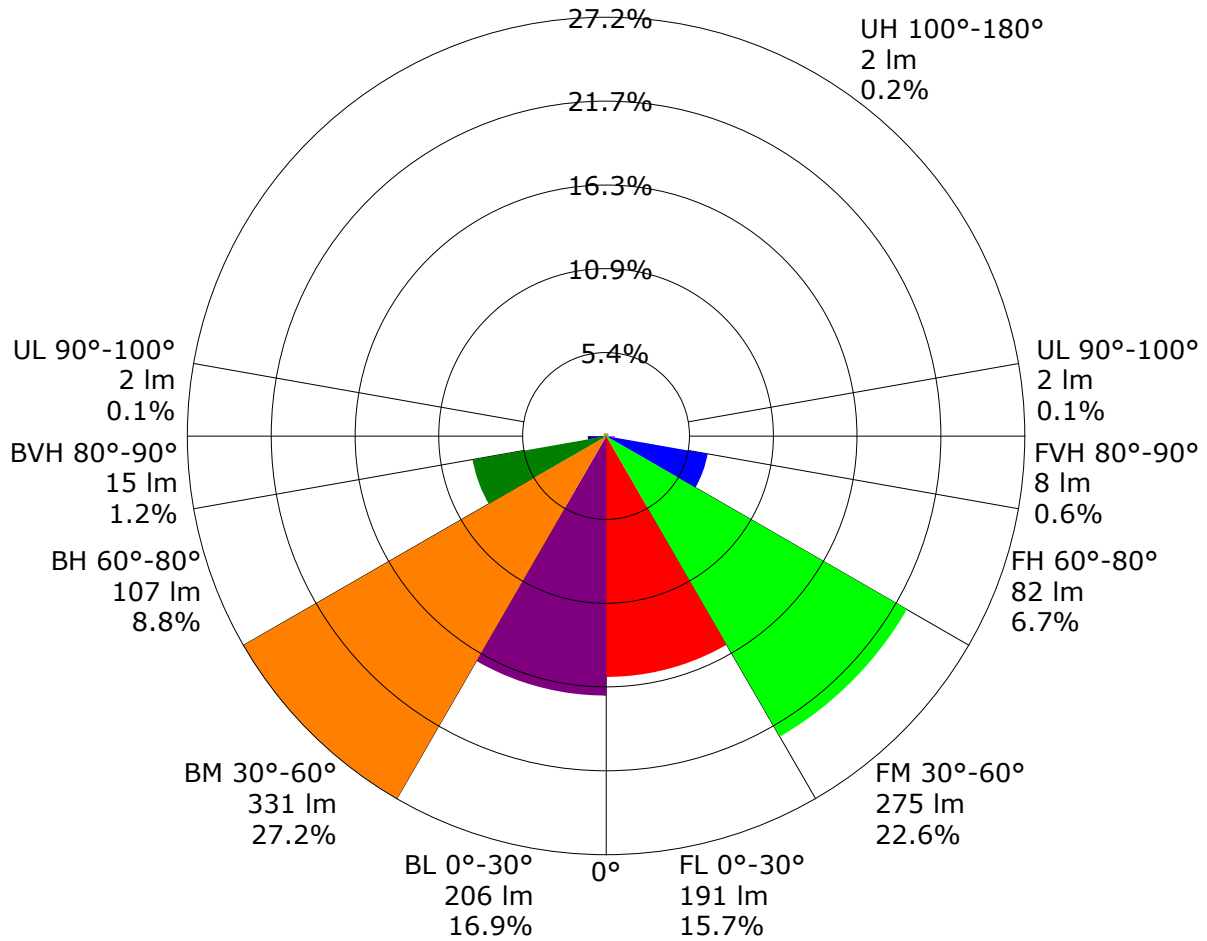


BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G1

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	0.97	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	0.86	0.91	0.94	0.98	1.00	
	0.30		0.53	0.63	0.70	0.75	0.82	0.86	0.90	0.94	0.97	
	0.20		0.48	0.58	0.65	0.70	0.78	0.83	0.86	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		0.52	0.62	0.68	0.73	0.80	0.84	0.87	0.91	0.94	
	0.20		0.48	0.57	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	0.57	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	0.24	0.19	
	0.30		0.76	0.63	0.55	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.66	0.56	0.49	0.44	0.36	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.87	0.70	0.59	0.52	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	0.39	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	0.09	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	0.14	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	

Rating:12W Photometrically tested without ceiling board.
 Multiply UF values by service correction factors
 Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	540.2	0.5	0.5	0.04	0.04
1.0-2.0	539.7	1.5	2.1	0.13	0.17
2.0-3.0	539.0	2.6	4.6	0.21	0.38
3.0-4.0	538.7	3.6	8.3	0.30	0.68
4.0-5.0	538.0	4.6	12.9	0.38	1.06
5.0-6.0	536.7	5.6	18.5	0.46	1.52
6.0-7.0	535.2	6.6	25.2	0.55	2.07
7.0-8.0	533.2	7.6	32.8	0.63	2.69
8.0-9.0	530.8	8.6	41.4	0.71	3.40
9.0-10.0	528.1	9.6	51.0	0.78	4.18
10.0-11.0	525.4	10.5	61.5	0.86	5.05
11.0-12.0	522.1	11.4	72.9	0.94	5.98
12.0-13.0	518.3	12.3	85.2	1.01	6.99
13.0-14.0	514.3	13.2	98.3	1.08	8.07
14.0-15.0	509.5	14.0	112.3	1.15	9.22
15.0-16.0	504.3	14.8	127.1	1.21	10.44
16.0-17.0	499.0	15.5	142.6	1.28	11.71
17.0-18.0	493.2	16.3	158.9	1.34	13.05
18.0-19.0	487.1	16.9	175.9	1.39	14.44
19.0-20.0	480.8	17.6	193.5	1.44	15.88
20.0-21.0	474.1	18.2	211.7	1.50	17.38
21.0-22.0	467.4	18.8	230.5	1.54	18.92
22.0-23.0	460.3	19.3	249.8	1.59	20.51
23.0-24.0	452.8	19.8	269.6	1.63	22.13
24.0-25.0	445.4	20.3	289.8	1.66	23.80
25.0-26.0	437.8	20.7	310.5	1.70	25.49
26.0-27.0	430.2	21.1	331.5	1.73	27.22
27.0-28.0	422.4	21.4	352.9	1.76	28.98
28.0-29.0	414.6	21.7	374.6	1.78	30.76
29.0-30.0	406.4	21.9	396.6	1.80	32.56
30.0-31.0	397.9	22.1	418.7	1.82	34.38
31.0-32.0	389.8	22.3	441.1	1.83	36.21
32.0-33.0	381.4	22.5	463.5	1.85	38.06
33.0-34.0	372.9	22.6	486.1	1.85	39.91
34.0-35.0	364.2	22.6	508.7	1.86	41.77
35.0-36.0	355.5	22.6	531.4	1.86	43.63

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	346.8	22.6	554.0	1.86	45.48
37.0-38.0	338.2	22.6	576.5	1.85	47.34
38.0-39.0	329.5	22.5	599.0	1.85	49.18
39.0-40.0	320.6	22.4	621.4	1.84	51.02
40.0-41.0	311.6	22.2	643.6	1.82	52.84
41.0-42.0	302.7	22.0	665.6	1.81	54.65
42.0-43.0	293.8	21.8	687.4	1.79	56.44
43.0-44.0	284.9	21.5	708.9	1.77	58.20
44.0-45.0	276.3	21.2	730.1	1.74	59.95
45.0-46.0	267.5	20.9	751.0	1.72	61.66
46.0-47.0	258.8	20.6	771.6	1.69	63.35
47.0-48.0	250.5	20.3	791.9	1.66	65.02
48.0-49.0	242.1	19.9	811.8	1.63	66.65
49.0-50.0	233.7	19.5	831.2	1.60	68.25
50.0-51.0	225.8	19.1	850.4	1.57	69.82
51.0-52.0	217.8	18.7	869.0	1.53	71.35
52.0-53.0	209.9	18.3	887.3	1.50	72.85
53.0-54.0	202.2	17.8	905.1	1.46	74.32
54.0-55.0	194.6	17.4	922.5	1.43	75.74
55.0-56.0	187.2	16.9	939.4	1.39	77.13
56.0-57.0	179.9	16.4	955.9	1.35	78.48
57.0-58.0	172.6	16.0	971.8	1.31	79.79
58.0-59.0	165.8	15.5	987.3	1.27	81.06
59.0-60.0	159.0	15.0	1002.4	1.23	82.30
60.0-61.0	152.0	14.5	1016.9	1.19	83.49
61.0-62.0	145.1	14.0	1030.9	1.15	84.64
62.0-63.0	138.4	13.5	1044.3	1.11	85.74
63.0-64.0	131.8	12.9	1057.3	1.06	86.81
64.0-65.0	125.4	12.4	1069.7	1.02	87.82
65.0-66.0	119.0	11.9	1081.5	0.98	88.80
66.0-67.0	112.8	11.3	1092.9	0.93	89.73
67.0-68.0	106.6	10.8	1103.7	0.89	90.62
68.0-69.0	100.5	10.3	1113.9	0.84	91.46
69.0-70.0	94.5	9.7	1123.7	0.80	92.26
70.0-71.0	88.7	9.2	1132.8	0.75	93.01
71.0-72.0	82.9	8.6	1141.4	0.71	93.72

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	77.4	8.1	1149.5	0.66	94.38
73.0-74.0	72.0	7.6	1157.1	0.62	95.00
74.0-75.0	66.6	7.0	1164.1	0.58	95.58
75.0-76.0	61.4	6.5	1170.7	0.54	96.12
76.0-77.0	56.3	6.0	1176.7	0.49	96.61
77.0-78.0	51.3	5.5	1182.2	0.45	97.06
78.0-79.0	46.5	5.0	1187.2	0.41	97.47
79.0-80.0	41.9	4.5	1191.7	0.37	97.84
80.0-81.0	37.5	4.1	1195.7	0.33	98.17
81.0-82.0	33.2	3.6	1199.3	0.30	98.47
82.0-83.0	29.1	3.2	1202.5	0.26	98.73
83.0-84.0	25.2	2.7	1205.2	0.23	98.96
84.0-85.0	21.4	2.3	1207.6	0.19	99.15
85.0-86.0	17.8	1.9	1209.5	0.16	99.31
86.0-87.0	14.4	1.6	1211.1	0.13	99.44
87.0-88.0	11.4	1.2	1212.4	0.10	99.54
88.0-89.0	8.7	0.9	1213.3	0.08	99.62
89.0-90.0	6.4	0.7	1214.0	0.06	99.68
90.0-91.0	4.6	0.5	1214.5	0.04	99.72
91.0-92.0	3.2	0.4	1214.9	0.03	99.75
92.0-93.0	2.2	0.2	1215.1	0.02	99.77
93.0-94.0	1.6	0.2	1215.3	0.01	99.78
94.0-95.0	1.1	0.1	1215.4	0.01	99.79
95.0-96.0	0.7	0.1	1215.5	0.01	99.80
96.0-97.0	0.4	0.0	1215.5	0.00	99.80
97.0-98.0	0.2	0.0	1215.5	0.00	99.80
98.0-99.0	0.1	0.0	1215.5	0.00	99.80
99.0-100.0	0.0	0.0	1215.5	0.00	99.80
100.0-101.0	0.0	0.0	1215.5	0.00	99.80
101.0-102.0	0.0	0.0	1215.5	0.00	99.80
102.0-103.0	0.0	0.0	1215.5	0.00	99.80
103.0-104.0	0.0	0.0	1215.5	0.00	99.80
104.0-105.0	0.0	0.0	1215.5	0.00	99.80
105.0-106.0	0.0	0.0	1215.5	0.00	99.80
106.0-107.0	0.0	0.0	1215.5	0.00	99.80
107.0-108.0	0.0	0.0	1215.5	0.00	99.80

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.0	0.0	1215.5	0.00	99.80
109.0-110.0	0.0	0.0	1215.5	0.00	99.80
110.0-111.0	0.0	0.0	1215.5	0.00	99.80
111.0-112.0	0.0	0.0	1215.5	0.00	99.80
112.0-113.0	0.0	0.0	1215.5	0.00	99.80
113.0-114.0	0.0	0.0	1215.5	0.00	99.80
114.0-115.0	0.0	0.0	1215.5	0.00	99.80
115.0-116.0	0.0	0.0	1215.5	0.00	99.80
116.0-117.0	0.0	0.0	1215.5	0.00	99.80
117.0-118.0	0.0	0.0	1215.5	0.00	99.80
118.0-119.0	0.0	0.0	1215.5	0.00	99.80
119.0-120.0	0.0	0.0	1215.5	0.00	99.80
120.0-121.0	0.0	0.0	1215.5	0.00	99.80
121.0-122.0	0.0	0.0	1215.5	0.00	99.80
122.0-123.0	0.0	0.0	1215.5	0.00	99.80
123.0-124.0	0.0	0.0	1215.5	0.00	99.80
124.0-125.0	0.0	0.0	1215.5	0.00	99.80
125.0-126.0	0.0	0.0	1215.5	0.00	99.80
126.0-127.0	0.0	0.0	1215.5	0.00	99.80
127.0-128.0	0.0	0.0	1215.5	0.00	99.80
128.0-129.0	0.1	0.0	1215.6	0.00	99.80
129.0-130.0	0.1	0.0	1215.6	0.00	99.80
130.0-131.0	0.1	0.0	1215.6	0.00	99.80
131.0-132.0	0.2	0.0	1215.6	0.00	99.80
132.0-133.0	0.2	0.0	1215.6	0.00	99.81
133.0-134.0	0.4	0.0	1215.6	0.00	99.81
134.0-135.0	0.5	0.0	1215.7	0.00	99.81
135.0-136.0	0.5	0.0	1215.7	0.00	99.81
136.0-137.0	0.5	0.0	1215.7	0.00	99.82
137.0-138.0	0.5	0.0	1215.8	0.00	99.82
138.0-139.0	0.6	0.0	1215.8	0.00	99.83
139.0-140.0	0.7	0.1	1215.9	0.00	99.83
140.0-141.0	0.8	0.1	1215.9	0.00	99.83
141.0-142.0	0.9	0.1	1216.0	0.00	99.84
142.0-143.0	1.0	0.1	1216.1	0.01	99.84
143.0-144.0	1.0	0.1	1216.1	0.01	99.85

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	1.1	0.1	1216.2	0.01	99.86
145.0-146.0	1.1	0.1	1216.3	0.01	99.86
146.0-147.0	1.1	0.1	1216.3	0.01	99.87
147.0-148.0	1.1	0.1	1216.4	0.01	99.87
148.0-149.0	1.3	0.1	1216.5	0.01	99.88
149.0-150.0	1.3	0.1	1216.5	0.01	99.88
150.0-151.0	1.4	0.1	1216.6	0.01	99.89
151.0-152.0	1.4	0.1	1216.7	0.01	99.90
152.0-153.0	1.4	0.1	1216.8	0.01	99.90
153.0-154.0	1.4	0.1	1216.8	0.01	99.91
154.0-155.0	1.5	0.1	1216.9	0.01	99.91
155.0-156.0	1.5	0.1	1217.0	0.01	99.92
156.0-157.0	1.5	0.1	1217.0	0.01	99.92
157.0-158.0	1.6	0.1	1217.1	0.01	99.93
158.0-159.0	1.6	0.1	1217.2	0.01	99.94
159.0-160.0	1.7	0.1	1217.2	0.01	99.94
160.0-161.0	1.7	0.1	1217.3	0.01	99.95
161.0-162.0	1.8	0.1	1217.4	0.01	99.95
162.0-163.0	1.8	0.1	1217.4	0.00	99.96
163.0-164.0	1.8	0.1	1217.5	0.00	99.96
164.0-165.0	1.9	0.1	1217.5	0.00	99.97
165.0-166.0	1.9	0.1	1217.6	0.00	99.97
166.0-167.0	1.9	0.0	1217.6	0.00	99.97
167.0-168.0	1.9	0.0	1217.7	0.00	99.98
168.0-169.0	1.9	0.0	1217.7	0.00	99.98
169.0-170.0	2.0	0.0	1217.8	0.00	99.98
170.0-171.0	2.0	0.0	1217.8	0.00	99.99
171.0-172.0	2.0	0.0	1217.8	0.00	99.99
172.0-173.0	2.0	0.0	1217.9	0.00	99.99
173.0-174.0	2.1	0.0	1217.9	0.00	99.99
174.0-175.0	2.1	0.0	1217.9	0.00	100.00
175.0-176.0	2.1	0.0	1217.9	0.00	100.00
176.0-177.0	2.1	0.0	1217.9	0.00	100.00
177.0-178.0	2.1	0.0	1218.0	0.00	100.00
178.0-179.0	2.1	0.0	1218.0	0.00	100.00
179.0-180.0	2.1	0.0	1218.0	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	545.3	541.8	541.9	538.9	537.9	535.9	545.3	541.8	541.9	538.9
G1.0	542.0	541.0	538.8	538.7	538.0	537.1	546.8	545.6	540.1	539.9
G2.0	537.8	538.0	539.4	538.8	538.2	539.2	548.9	546.1	543.4	537.7
G3.0	537.2	536.8	536.3	537.0	540.7	539.6	547.7	546.3	542.8	538.3
G4.0	536.3	536.8	535.8	539.3	539.7	542.8	550.0	549.0	541.0	535.2
G5.0	532.5	534.3	534.9	536.1	540.1	542.8	552.6	546.7	542.9	532.4
G6.0	531.3	530.6	531.2	534.1	541.3	544.2	549.9	548.9	541.4	530.3
G7.0	528.5	528.4	528.3	533.3	539.0	543.3	552.3	546.2	538.5	528.7
G8.0	525.7	527.1	525.2	529.6	537.4	543.1	550.4	546.4	536.4	526.5
G9.0	522.8	522.3	522.4	529.1	535.0	541.0	549.1	545.6	535.8	522.1
G10.0	520.2	517.6	520.8	525.0	536.0	540.2	545.3	543.1	532.3	517.7
G11.0	516.6	517.0	515.9	522.7	533.7	536.5	544.7	541.1	531.0	516.0
G12.0	510.9	513.2	512.3	519.3	529.6	535.2	542.0	535.9	526.8	511.4
G13.0	507.2	508.1	509.6	516.6	527.5	532.9	539.6	534.4	521.1	506.6
G14.0	503.8	504.5	504.2	511.5	525.3	529.0	536.4	529.2	518.2	500.4
G15.0	497.6	497.5	499.7	506.6	521.0	526.3	532.3	526.4	513.8	491.8
G16.0	491.1	491.5	495.1	500.7	516.8	522.0	531.4	521.6	506.3	485.2
G17.0	484.7	487.0	489.0	494.9	511.1	520.0	527.5	517.6	502.4	477.1
G18.0	476.2	479.5	482.3	490.5	506.9	516.5	523.1	512.5	494.0	470.0
G19.0	471.4	474.0	474.5	483.6	501.4	510.8	522.3	508.3	486.2	463.2
G20.0	463.6	466.1	467.7	476.0	494.5	506.7	519.2	503.6	480.6	455.8
G21.0	457.7	458.3	461.8	469.8	488.3	502.8	513.6	499.3	471.5	447.8
G22.0	450.3	449.7	452.2	462.0	481.5	500.3	510.6	494.5	462.6	440.6
G23.0	440.5	442.2	443.5	455.2	473.4	494.1	507.3	487.5	456.8	432.2
G24.0	434.5	433.6	435.8	447.3	466.5	488.5	501.4	481.7	447.7	426.0
G25.0	425.0	425.1	427.9	438.4	459.3	484.2	496.7	476.3	440.3	418.4
G26.0	415.2	415.7	419.1	432.2	451.1	477.9	489.5	468.3	432.0	413.6
G27.0	406.1	406.2	412.0	426.0	444.5	472.3	482.6	460.3	427.0	404.6
G28.0	397.4	398.3	405.2	418.0	435.5	464.4	477.4	452.9	417.6	396.6
G29.0	388.4	386.9	397.7	409.7	428.3	459.4	471.9	446.5	410.5	390.6
G30.0	377.6	377.1	386.6	401.3	420.2	451.4	463.9	436.4	403.1	382.3
G31.0	366.5	370.3	380.2	394.8	413.2	442.0	454.6	427.4	396.8	374.4
G32.0	356.6	360.4	372.3	387.8	405.3	432.9	446.9	418.8	389.7	368.2
G33.0	345.6	351.9	364.3	378.9	398.4	425.8	439.2	410.3	381.0	360.6
G34.0	334.6	342.2	356.2	372.9	390.3	417.2	428.8	402.4	372.2	352.1
G35.0	322.5	333.5	347.4	363.0	383.6	407.8	422.3	392.4	365.5	345.3
G36.0	312.1	322.4	338.9	355.4	376.0	397.7	411.9	383.7	358.0	337.8

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:

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	302.1	313.4	331.8	348.6	367.4	390.5	401.6	374.2	350.8	329.5
G38.0	290.4	304.5	322.5	340.0	361.5	380.6	390.5	364.5	344.0	323.1
G39.0	280.3	296.2	314.8	333.5	352.2	372.0	378.8	355.8	335.7	315.7
G40.0	268.5	288.0	306.8	325.7	345.0	361.5	366.1	346.0	327.4	307.2
G41.0	259.5	276.8	297.1	318.9	336.2	352.4	356.1	337.4	320.1	298.8
G42.0	248.4	268.8	289.3	311.8	327.9	343.4	343.2	329.2	311.8	292.0
G43.0	237.9	259.7	281.6	304.8	320.5	334.5	329.2	319.3	304.1	283.5
G44.0	228.3	250.6	273.2	297.5	312.7	324.0	317.9	311.2	294.4	276.7
G45.0	219.6	241.2	265.7	290.1	303.6	316.0	306.5	300.9	287.5	268.0
G46.0	209.5	232.9	258.2	283.4	295.7	306.5	294.5	290.5	278.9	260.6
G47.0	200.1	224.6	249.7	276.9	289.0	296.8	282.3	281.5	270.4	253.6
G48.0	192.8	215.4	244.4	271.5	280.4	286.3	269.4	272.0	263.1	247.4
G49.0	184.1	206.8	236.8	264.4	272.4	277.8	256.3	261.2	254.5	238.5
G50.0	176.4	199.2	228.2	258.9	265.8	266.9	246.2	252.6	246.9	233.1
G51.0	169.0	191.1	222.2	252.5	257.8	258.3	235.0	242.9	239.0	226.5
G52.0	161.1	182.6	214.6	247.6	250.3	248.0	222.6	234.1	230.6	219.4
G53.0	154.1	175.0	208.5	240.9	243.7	237.4	212.9	224.7	223.1	212.7
G54.0	147.8	167.2	202.6	234.7	235.9	227.4	202.3	214.7	215.9	206.0
G55.0	141.1	159.9	195.8	229.3	228.8	219.1	192.4	205.9	208.0	198.5
G56.0	135.1	153.2	189.9	224.1	222.4	208.7	182.6	196.2	200.7	192.4
G57.0	128.9	145.3	182.8	216.8	216.3	199.5	173.8	187.4	193.5	184.6
G58.0	122.5	138.8	176.7	210.8	209.1	191.1	166.1	179.2	186.5	177.5
G59.0	117.4	132.5	170.9	205.5	202.7	182.7	157.1	171.4	179.2	170.4
G60.0	111.6	125.6	164.6	198.8	195.9	173.7	149.6	163.3	172.7	164.4
G61.0	106.4	118.8	157.7	192.1	189.3	164.8	142.5	154.1	165.2	157.5
G62.0	100.3	112.7	150.9	185.9	182.5	156.6	134.9	146.9	159.0	149.4
G63.0	95.2	107.0	144.6	178.8	175.2	149.5	128.4	138.8	151.3	142.9
G64.0	90.0	101.2	138.6	172.7	168.9	140.7	121.3	131.9	143.8	135.4
G65.0	85.2	95.4	132.0	164.6	162.5	133.1	115.3	124.1	137.6	128.3
G66.0	80.4	90.8	125.9	157.4	155.4	126.5	109.6	116.7	131.0	121.3
G67.0	75.3	85.9	119.1	150.1	148.4	119.7	103.4	110.8	123.3	114.5
G68.0	70.6	80.6	113.0	142.4	141.6	112.6	98.2	103.9	117.1	107.0
G69.0	65.9	75.8	106.6	134.7	135.4	106.5	92.6	98.0	110.3	99.8
G70.0	61.1	71.1	99.8	126.5	128.5	100.7	87.9	91.8	103.9	92.9
G71.0	57.0	66.6	93.4	118.8	121.6	94.4	82.9	86.5	97.9	86.2
G72.0	52.8	61.6	87.1	110.9	114.9	88.6	77.9	81.1	91.2	79.8
G73.0	48.9	57.2	81.1	103.7	108.5	83.9	73.5	75.4	84.7	73.6

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: 11.655 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	44.4	53.1	75.0	96.7	101.5	78.4	68.8	70.5	78.8	68.1
G75.0	40.1	49.4	69.6	89.8	95.2	73.3	64.1	65.7	72.0	62.0
G76.0	35.9	45.1	64.0	82.6	88.6	68.4	60.1	61.0	66.4	56.3
G77.0	31.7	40.6	58.8	75.3	82.3	64.0	56.3	56.3	61.3	49.8
G78.0	27.6	36.7	52.9	68.6	76.1	59.8	52.5	52.3	55.7	43.7
G79.0	24.4	32.3	47.7	62.1	70.0	55.2	48.4	48.2	50.0	38.4
G80.0	21.6	28.8	42.6	55.5	64.1	50.8	45.1	44.2	45.0	33.1
G81.0	18.9	25.3	37.5	48.2	58.4	47.0	41.3	40.0	40.0	27.5
G82.0	16.2	22.3	32.0	42.3	52.3	43.1	38.0	36.3	35.0	22.7
G83.0	14.1	19.8	27.6	36.7	46.1	39.5	34.4	32.6	30.3	18.0
G84.0	11.7	17.0	23.3	30.3	40.2	35.3	30.4	29.0	25.5	13.5
G85.0	9.9	14.9	19.5	24.6	34.7	31.6	26.9	25.4	21.4	8.5
G86.0	7.3	12.8	15.6	19.4	28.7	27.9	23.8	22.6	17.9	5.4
G87.0	4.0	10.4	12.6	14.3	22.4	24.2	21.0	20.0	14.3	3.5
G88.0	2.6	7.7	9.9	9.5	15.9	21.2	18.3	17.2	11.4	2.0
G89.0	1.6	4.8	7.2	5.1	10.0	18.9	15.8	15.3	8.0	0.0
G90.0	1.1	3.2	4.3	2.9	5.4	16.2	13.8	13.0	4.5	0.0
G91.0	0.0	2.3	2.1	1.4	1.8	13.8	11.7	10.8	2.0	0.0
G92.0	0.0	1.5	0.0	0.0	0.0	11.4	9.6	8.3	0.0	0.0
G93.0	0.0	0.0	0.0	0.0	0.0	9.7	7.5	5.9	0.0	0.0
G94.0	0.0	0.0	0.0	0.0	0.0	7.5	4.6	3.5	0.0	0.0
G95.0	0.0	0.0	0.0	0.0	0.0	5.3	2.8	2.0	0.0	0.0
G96.0	0.0	0.0	0.0	0.0	0.0	3.1	1.6	1.2	0.0	0.0
G97.0	0.0	0.0	0.0	0.0	0.0	1.9	1.2	0.0	0.0	0.0
G98.0	0.0	0.0	0.0	0.0	0.0	1.3	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	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G132.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G133.0	0.0	1.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G134.0	0.9	1.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
G135.0	0.0	1.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
G136.0	0.0	1.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0
G137.0	0.0	1.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1
G138.0	0.0	1.3	1.2	0.0	0.0	0.0	0.0	0.0	0.9	1.2
G139.0	0.9	1.2	1.2	0.0	0.0	0.0	0.0	0.0	1.0	1.2
G140.0	0.0	1.5	1.3	0.9	0.0	0.0	0.0	0.0	1.0	1.3
G141.0	1.2	1.5	1.2	0.9	0.0	0.0	0.0	0.0	1.0	1.4
G142.0	1.1	1.5	1.4	1.0	0.0	0.0	0.0	0.9	1.1	1.4
G143.0	1.1	1.5	1.4	1.0	1.0	0.0	0.0	1.0	1.1	1.5
G144.0	1.3	1.6	1.4	0.9	0.9	0.0	0.0	1.0	1.1	1.4
G145.0	1.2	1.6	1.6	1.0	1.0	0.0	0.0	1.1	1.2	1.5
G146.0	1.4	1.6	1.6	1.1	1.0	0.0	0.0	1.0	1.3	1.4
G147.0	1.4	1.6	1.4	1.1	0.9	0.0	0.0	1.0	1.3	1.5

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 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	1.3	1.7	1.5	1.2	1.1	0.0	0.0	1.2	1.2	1.6
G149.0	1.5	1.7	1.6	1.3	1.1	1.0	1.0	1.0	1.2	1.7
G150.0	1.4	1.8	1.6	1.3	1.3	0.0	1.0	1.2	1.4	1.6
G151.0	1.6	1.8	1.6	1.4	1.3	1.0	0.9	1.2	1.5	1.6
G152.0	1.6	1.9	1.7	1.6	1.4	0.0	1.0	1.3	1.4	1.6
G153.0	1.6	1.8	1.7	1.5	1.4	0.0	1.1	1.3	1.5	1.9
G154.0	1.7	1.7	1.8	1.4	1.4	0.9	1.1	1.4	1.4	1.9
G155.0	1.7	1.8	1.6	1.5	1.4	1.0	1.1	1.4	1.5	2.0
G156.0	1.6	1.8	1.8	1.5	1.4	0.0	1.2	1.2	1.6	2.0
G157.0	1.6	2.0	1.8	1.6	1.5	0.9	1.1	1.4	1.9	2.1
G158.0	1.6	1.7	2.0	1.6	1.6	1.0	1.2	1.3	1.7	2.0
G159.0	1.8	1.8	1.9	1.7	1.5	1.2	1.3	1.5	1.9	1.9
G160.0	1.7	1.9	1.9	1.7	1.6	1.1	1.2	1.6	2.0	2.0
G161.0	1.8	2.0	2.0	1.7	1.6	1.3	1.3	1.5	2.0	2.1
G162.0	2.0	1.9	1.9	1.8	1.7	1.3	1.3	1.6	2.1	2.3
G163.0	2.0	2.1	1.9	1.9	1.6	1.3	1.2	1.5	2.1	2.3
G164.0	2.0	2.2	2.0	1.9	2.0	1.4	1.3	1.6	2.1	2.2
G165.0	2.0	2.1	2.0	1.9	1.8	1.5	1.4	1.8	2.1	2.3
G166.0	2.0	2.1	2.1	1.9	1.8	1.6	1.5	1.7	2.0	2.4
G167.0	2.0	2.1	2.1	1.8	1.8	1.6	1.4	1.8	2.1	2.3
G168.0	2.1	2.1	2.1	1.9	1.8	1.6	1.4	1.8	2.1	2.2
G169.0	1.9	2.2	2.1	2.0	2.0	1.6	1.4	1.9	2.2	2.3
G170.0	2.1	2.2	2.2	2.1	1.9	1.7	1.5	1.9	2.2	2.3
G171.0	2.0	2.2	2.1	2.1	1.8	1.9	1.5	2.0	2.2	2.3
G172.0	2.1	2.3	2.1	2.1	1.9	1.7	1.5	1.8	2.2	2.5
G173.0	2.2	2.0	2.3	2.0	2.0	1.7	1.6	2.0	2.3	2.3
G174.0	1.9	2.2	2.2	2.1	2.0	1.8	1.7	1.9	2.3	2.3
G175.0	2.1	2.2	2.3	2.0	2.0	1.7	1.6	2.0	2.3	2.3
G176.0	2.0	2.3	2.3	2.2	2.0	1.8	1.7	2.1	2.4	2.4
G177.0	2.0	2.4	2.1	2.3	2.2	1.7	1.8	2.1	2.3	2.4
G178.0	2.0	2.1	2.1	2.2	2.1	1.9	1.6	2.2	2.3	2.4
G179.0	2.1	2.1	2.2	2.3	2.1	1.8	1.7	2.0	2.1	2.3
G180.0	2.0	2.2	2.3	2.3	1.9	1.9	1.6	2.1	1.9	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	537.9	535.9	545.3						
G1.0	537.0	535.1	542.0						
G2.0	533.6	531.5	537.8						
G3.0	532.0	529.0	537.2						
G4.0	531.5	527.8	536.3						
G5.0	527.2	525.2	532.5						
G6.0	524.8	524.3	531.3						
G7.0	524.0	522.1	528.5						
G8.0	520.4	517.0	525.7						
G9.0	514.8	514.2	522.8						
G10.0	511.3	511.1	520.2						
G11.0	506.2	506.3	516.6						
G12.0	502.6	502.0	510.9						
G13.0	497.4	496.7	507.2						
G14.0	490.1	492.0	503.8						
G15.0	485.3	485.8	497.6						
G16.0	478.6	479.8	491.1						
G17.0	471.1	472.5	484.7						
G18.0	463.9	465.1	476.2						
G19.0	456.8	457.0	471.4						
G20.0	447.2	448.0	463.6						
G21.0	438.4	441.1	457.7						
G22.0	430.8	432.5	450.3						
G23.0	423.2	423.5	440.5						
G24.0	412.8	413.0	434.5						
G25.0	405.4	403.2	425.0						
G26.0	398.2	394.9	415.2						
G27.0	389.4	386.4	406.1						
G28.0	382.3	375.1	397.4						
G29.0	373.0	366.9	388.4						
G30.0	366.2	357.4	377.6						
G31.0	358.2	348.4	366.5						
G32.0	349.3	339.3	356.6						
G33.0	341.4	329.4	345.6						
G34.0	332.7	320.6	334.6						
G35.0	324.2	310.9	322.5						
G36.0	316.2	302.5	312.1						

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 6)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	307.8	292.4	302.1						
G38.0	301.3	283.2	290.4						
G39.0	292.7	274.8	280.3						
G40.0	284.5	265.2	268.5						
G41.0	277.0	256.0	259.5						
G42.0	267.4	246.6	248.4						
G43.0	258.8	237.6	237.9						
G44.0	251.1	229.8	228.3						
G45.0	243.5	221.7	219.6						
G46.0	233.7	212.3	209.5						
G47.0	225.9	203.2	200.1						
G48.0	219.4	195.9	192.8						
G49.0	211.0	188.0	184.1						
G50.0	203.7	178.9	176.4						
G51.0	196.5	172.4	169.0						
G52.0	188.6	164.9	161.1						
G53.0	182.6	157.7	154.1						
G54.0	175.5	150.1	147.8						
G55.0	167.6	143.2	141.1						
G56.0	161.6	136.7	135.1						
G57.0	154.3	130.0	128.9						
G58.0	148.4	123.3	122.5						
G59.0	141.4	117.3	117.4						
G60.0	134.9	111.3	111.6						
G61.0	128.1	105.7	106.4						
G62.0	122.3	99.7	100.3						
G63.0	115.0	94.3	95.2						
G64.0	109.3	89.2	90.0						
G65.0	103.3	84.3	85.2						
G66.0	97.6	78.4	80.4						
G67.0	91.6	73.9	75.3						
G68.0	85.9	69.4	70.6						
G69.0	80.1	64.6	65.9						
G70.0	74.5	59.9	61.1						
G71.0	68.4	55.8	57.0						
G72.0	63.0	51.8	52.8						
G73.0	57.8	47.7	48.9						

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

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	53.1	43.2	44.4							
G75.0	47.4	39.1	40.1							
G76.0	42.7	35.1	35.9							
G77.0	38.0	31.1	31.7							
G78.0	33.0	27.2	27.6							
G79.0	28.5	24.2	24.4							
G80.0	24.3	21.4	21.6							
G81.0	20.3	18.6	18.9							
G82.0	16.5	16.1	16.2							
G83.0	13.3	14.2	14.1							
G84.0	10.2	12.2	11.7							
G85.0	7.4	9.4	9.9							
G86.0	5.0	6.6	7.3							
G87.0	2.7	4.3	4.0							
G88.0	0.9	2.7	2.6							
G89.0	0.0	1.9	1.6							
G90.0	0.0	1.3	1.1							
G91.0	0.0	0.0	0.0							
G92.0	0.0	0.0	0.0							
G93.0	0.0	0.0	0.0							
G94.0	0.0	0.0	0.0							
G95.0	0.0	0.0	0.0							
G96.0	0.0	0.0	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	0.0	0.0							
G127.0	0.0	0.0	0.0							
G128.0	0.9	0.0	0.0							
G129.0	1.0	0.0	0.0							
G130.0	1.0	0.0	0.0							
G131.0	1.1	0.0	0.0							
G132.0	1.2	0.0	0.0							
G133.0	1.1	0.0	0.0							
G134.0	1.2	1.1	0.9							
G135.0	1.3	0.9	0.0							
G136.0	1.2	1.1	0.0							
G137.0	1.3	1.3	0.0							
G138.0	1.3	1.2	0.0							
G139.0	1.4	1.2	0.9							
G140.0	1.5	1.3	0.0							
G141.0	1.5	1.3	1.2							
G142.0	1.3	1.4	1.1							
G143.0	1.5	1.4	1.1							
G144.0	1.4	1.4	1.3							
G145.0	1.4	1.5	1.2							
G146.0	1.5	1.5	1.4							
G147.0	1.5	1.5	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 9)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G148.0	1.5	1.7	1.3						
G149.0	1.5	1.6	1.5						
G150.0	1.4	1.7	1.4						
G151.0	1.5	1.6	1.6						
G152.0	1.5	1.6	1.6						
G153.0	1.6	1.7	1.6						
G154.0	1.5	1.6	1.7						
G155.0	1.4	1.8	1.7						
G156.0	1.6	1.7	1.6						
G157.0	1.6	1.7	1.6						
G158.0	1.6	1.8	1.6						
G159.0	1.9	1.7	1.8						
G160.0	1.9	2.0	1.7						
G161.0	2.0	1.8	1.8						
G162.0	2.2	1.8	2.0						
G163.0	2.0	1.8	2.0						
G164.0	2.1	1.9	2.0						
G165.0	2.1	1.9	2.0						
G166.0	2.1	1.7	2.0						
G167.0	2.0	1.9	2.0						
G168.0	2.1	1.9	2.1						
G169.0	2.0	1.9	1.9						
G170.0	2.1	2.0	2.1						
G171.0	2.3	1.9	2.0						
G172.0	2.3	1.9	2.1						
G173.0	2.3	2.0	2.2						
G174.0	2.2	2.1	1.9						
G175.0	2.3	2.1	2.1						
G176.0	2.3	2.0	2.0						
G177.0	2.2	2.2	2.0						
G178.0	2.3	2.1	2.0						
G179.0	2.2	2.0	2.1						
G180.0	2.3	2.1	2.0						

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: