

Report No.:

Test Time: 2016-09-26 09:04

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD30W27V50KBDB77

Lamp Catalog: 3030-5070-Q3DH

Current: 0.238 A

Power Factor: 0.986

Voltage: 120.2 V

Power: 28.30 W

Volt Amps: 28.70 VA

Photometric Results

CIE Class: Direct

Measurement Flux: 2978.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(10%,50%,75%,100%): H144.8,H90.6,H67,H13

Vertical Diffuse Angle(10%,50%,75%,100%): V157.8,V115.2,V85.1,V1

Luminaire Efficacy Rating (LER): 105.29

Max. Intensity: 1157.69 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 2978.3 lm

Efficiency: 100%

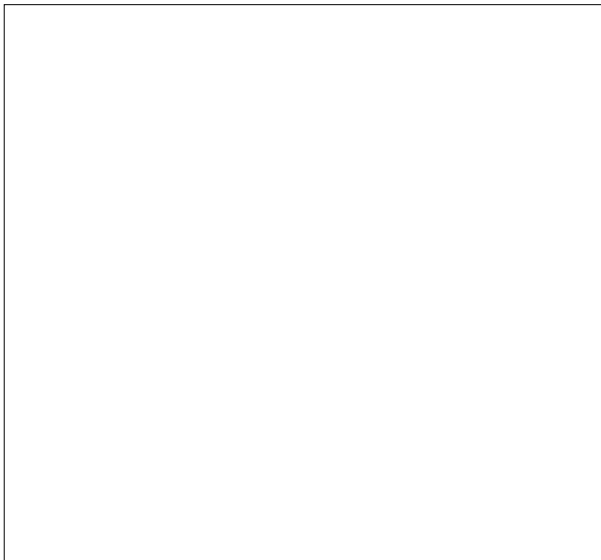
Upward Ratio: 0%

Central Intensity: 1143.98 cd

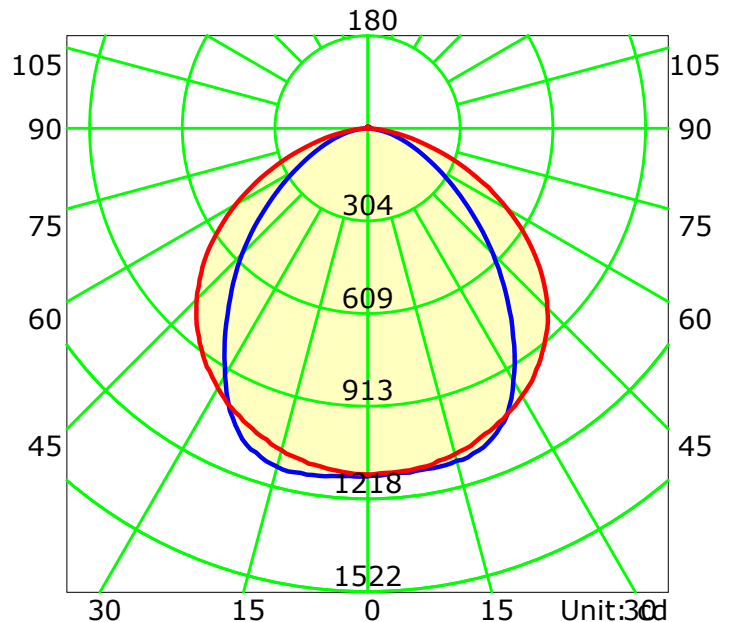
Pos of Max. Intensity: H180 V13

S/MH(C90/C270): 1.31

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 102.8°

— 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

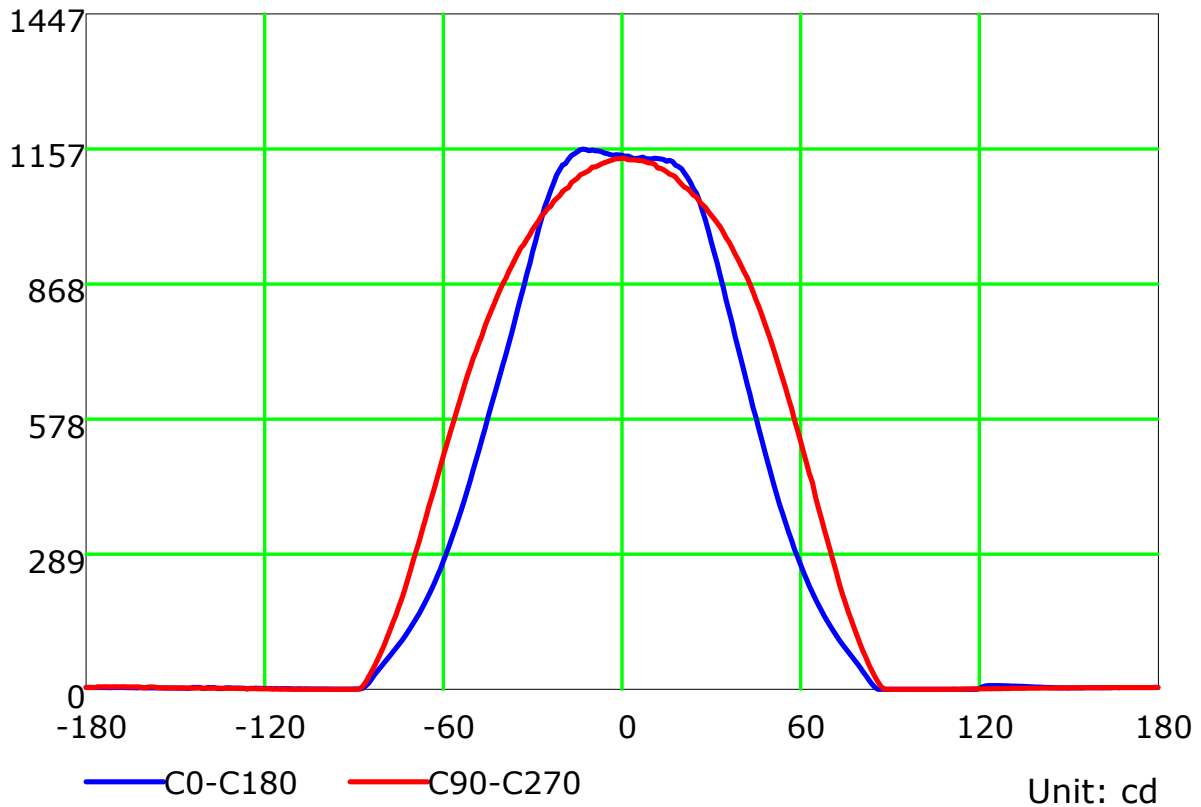
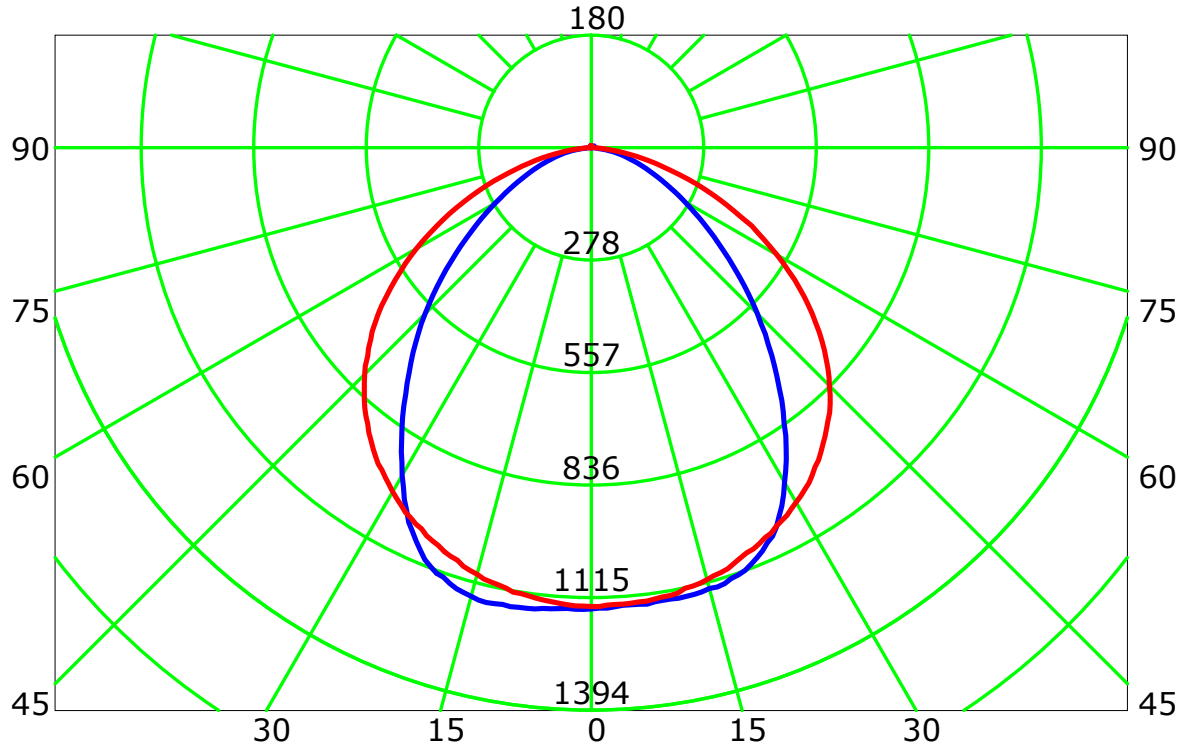
Test Device: GPM-1600

Distance: 8.567 m

Humidity:

Inspector:

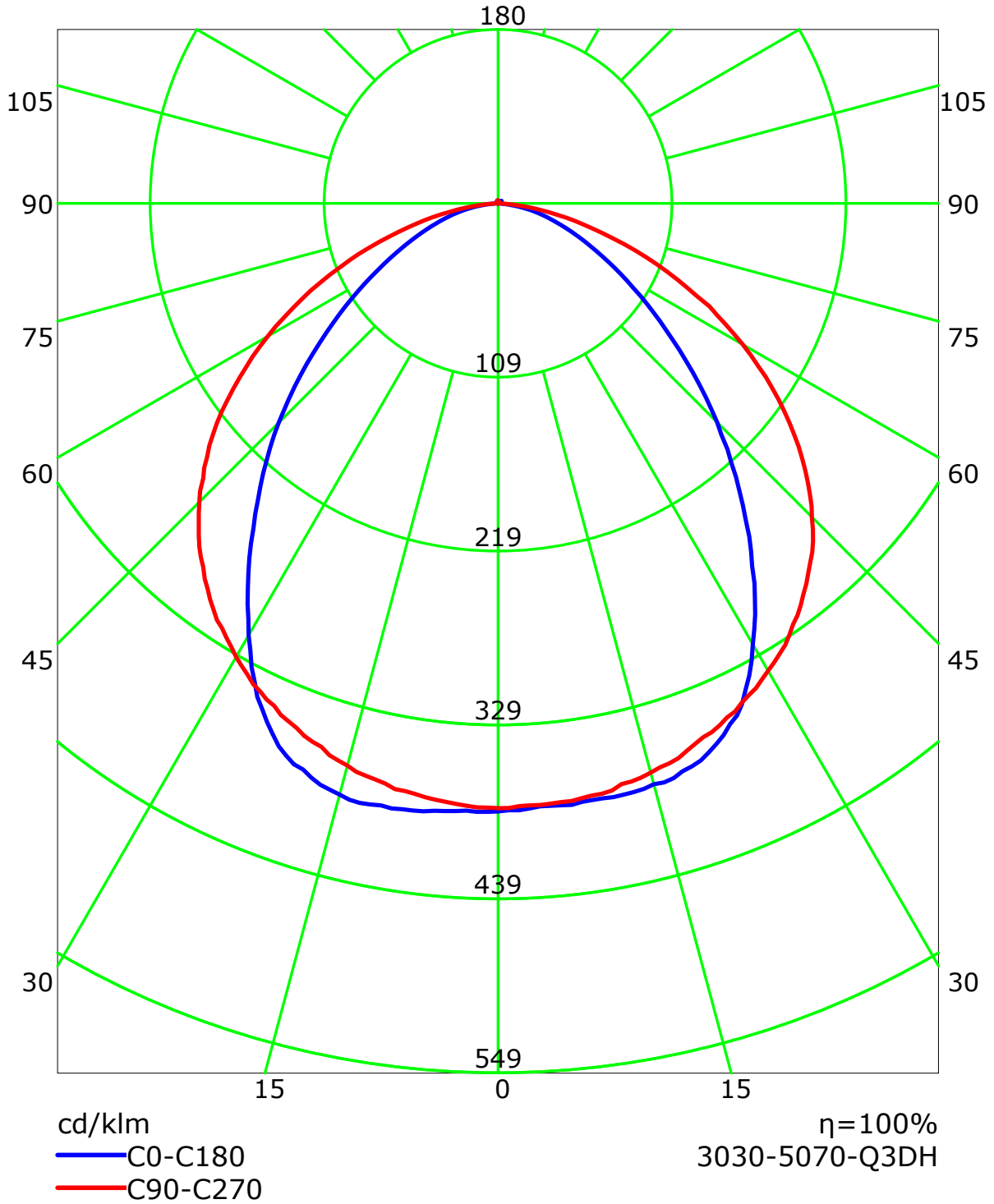
Luminous Intensity Distribution Curve



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)



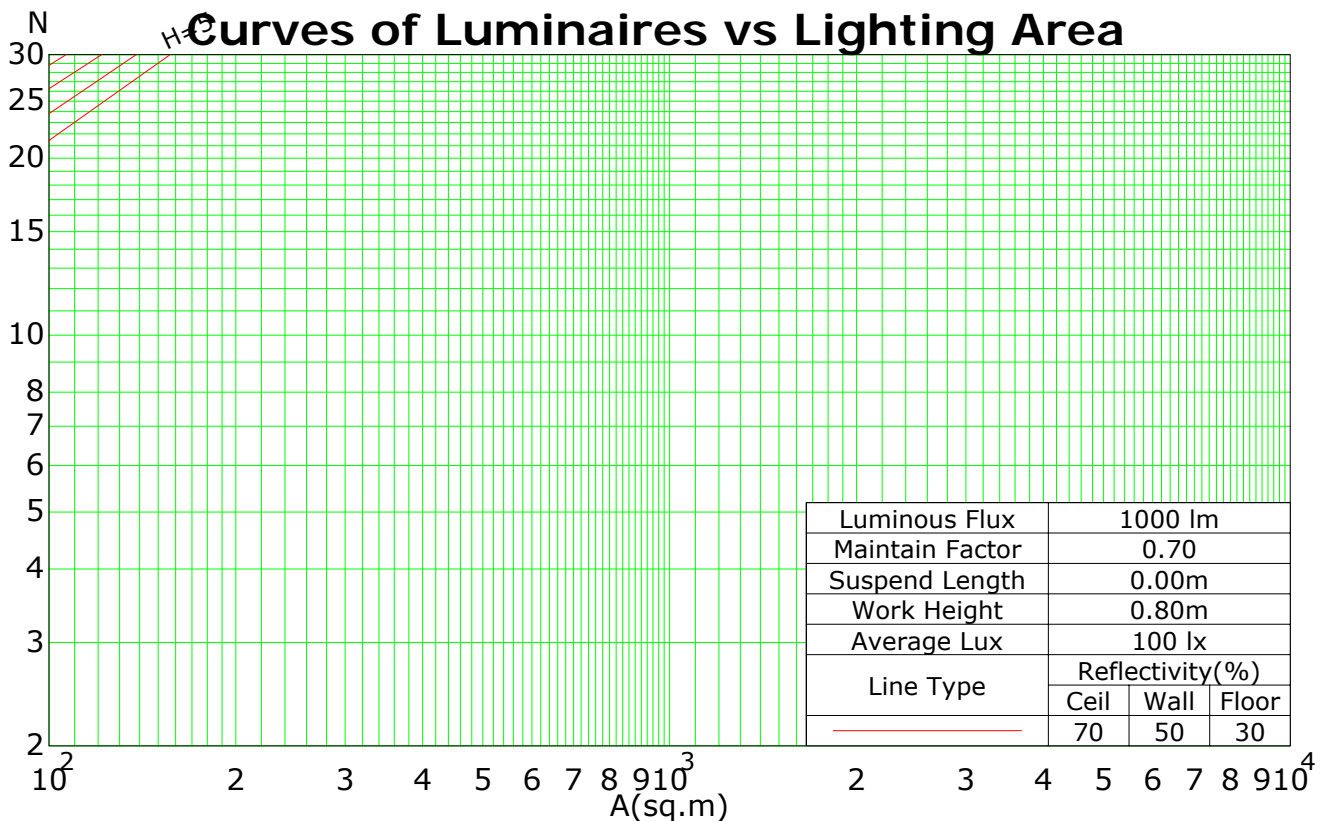
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	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	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

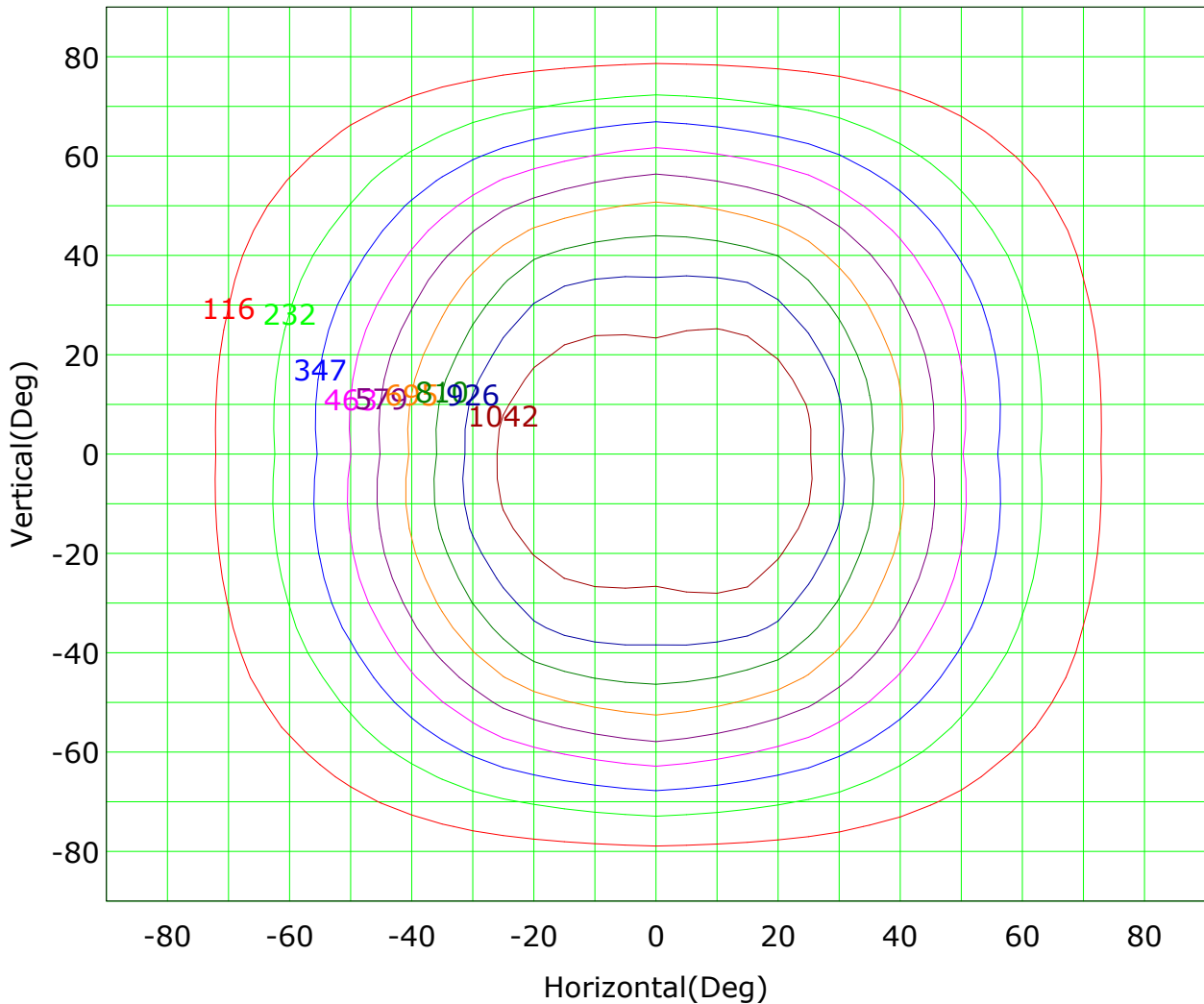
Spacing Criteria (0-180): 1.22
 Spacing Criteria (90-270): 1.31
 Spacing Criteria (Diagonal): 1.35



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)



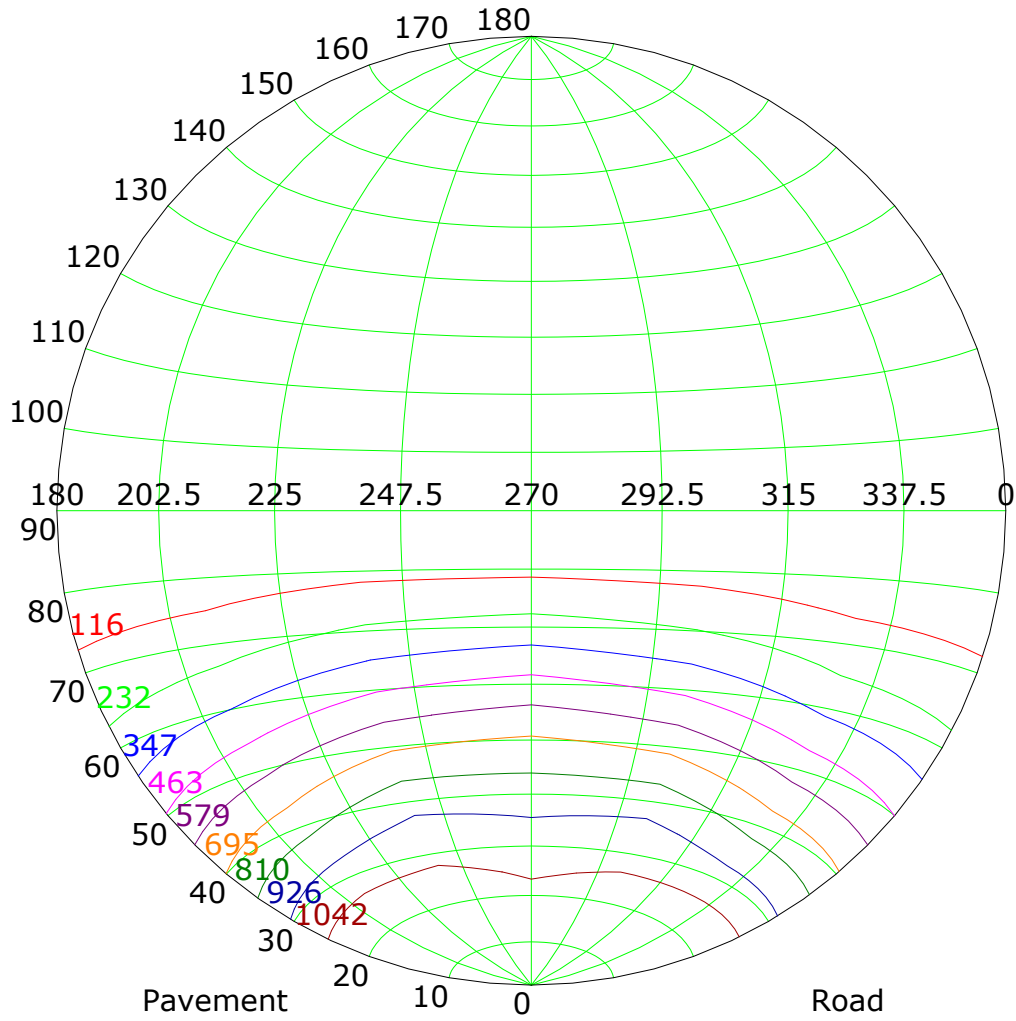
Imax (100%): 1158 cd

— (10%): 116 cd	— (20%): 232 cd
— (30%): 347 cd	— (40%): 463 cd
— (50%): 579 cd	— (60%): 695 cd
— (70%): 810 cd	— (80%): 926 cd
— (90%): 1042 cd	— (100%): 1158 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%): 1158 cd

— (10%): 116 cd	— (20%): 232 cd
— (30%): 347 cd	— (40%): 463 cd
— (50%): 579 cd	— (60%): 695 cd
— (70%): 810 cd	— (80%): 926 cd
— (90%): 1042 cd	— (100%): 1158 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

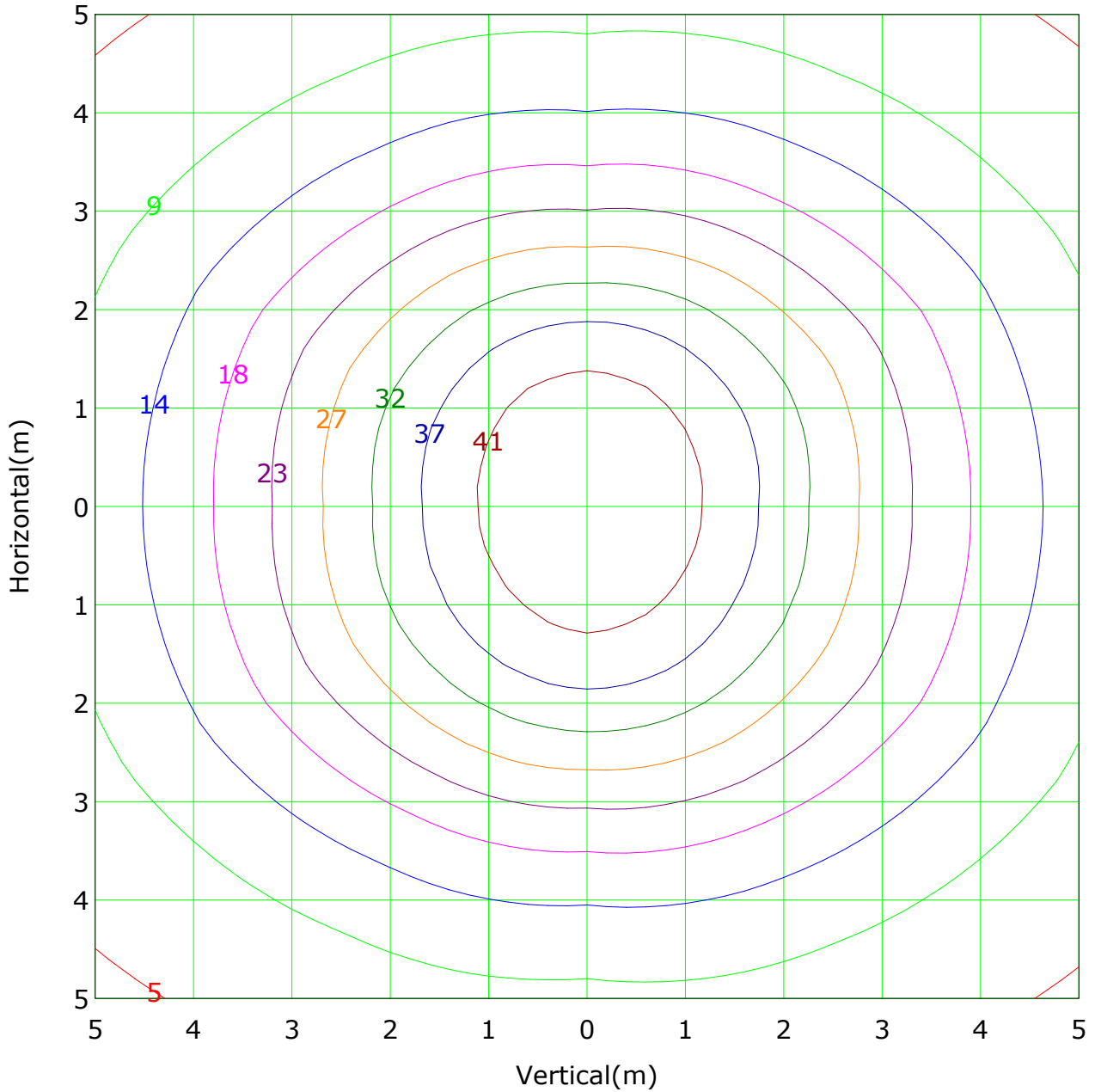
Test Device: GPM-1600

Distance: 8.567 m

Humidity:

Inspector:

IsoLux Plot



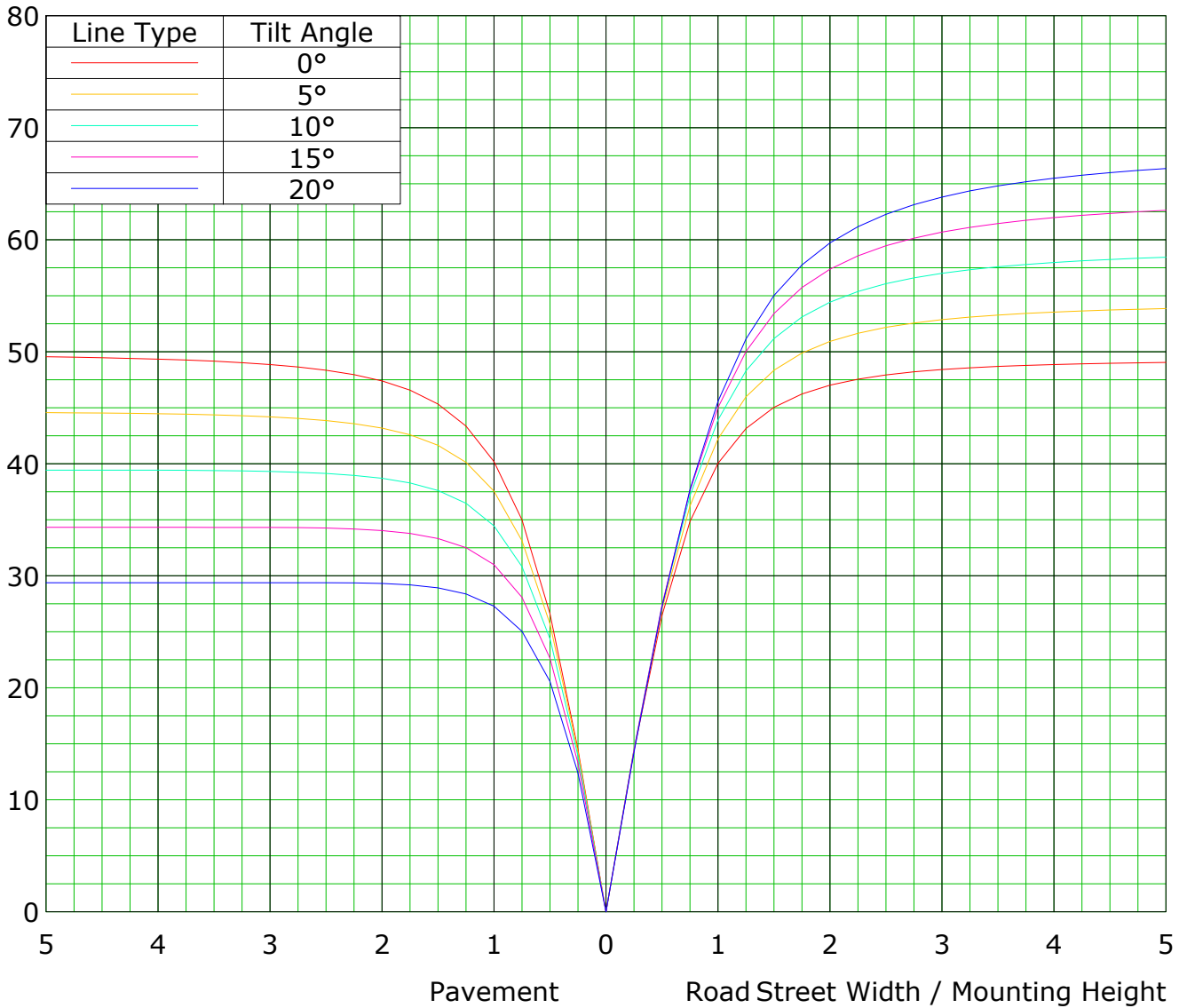
Mounting Height: 5.0m		Max Lux(100%): 45.8 lx	
<ul style="list-style-type: none"> — (10%): 4.6 lx — (30%): 13.7 lx — (50%): 22.9 lx — (70%): 32.0 lx — (90%): 41.2 lx 	<ul style="list-style-type: none"> — (20%): 9.2 lx — (40%): 18.3 lx — (60%): 27.5 lx — (80%): 36.6 lx — (100%): 45.8 lx 		

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(%)



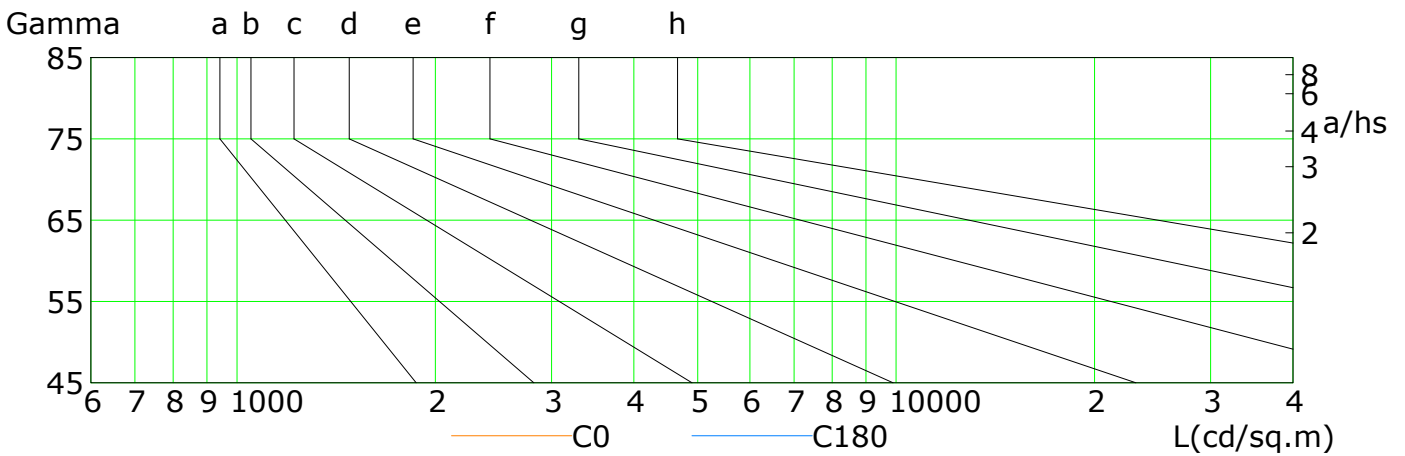
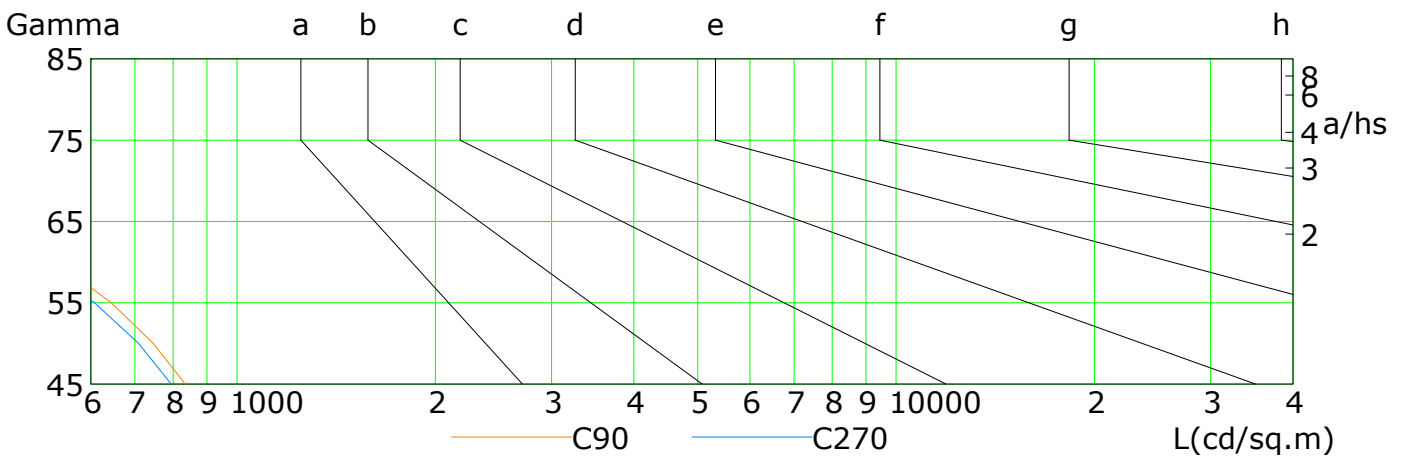
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	583	462	356	267	193	135	88	47	4
C90	835	747	644	531	412	296	186	97	27
C180	583	470	365	275	201	143	96	56	14
C270	795	709	608	501	389	279	176	93	28

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

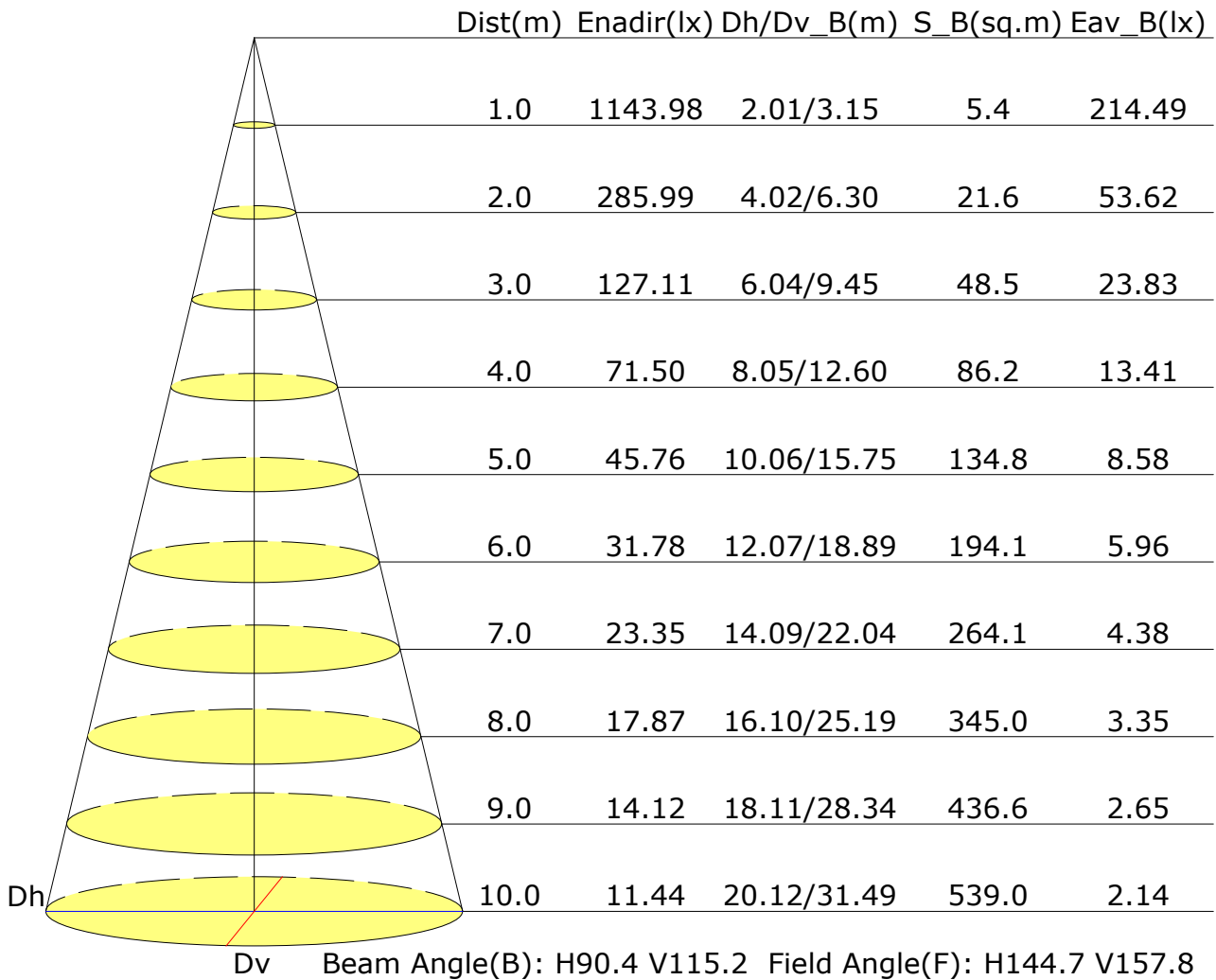
Test Device: GPM-1600

Distance: 8.567 m

Humidity:

Inspector:

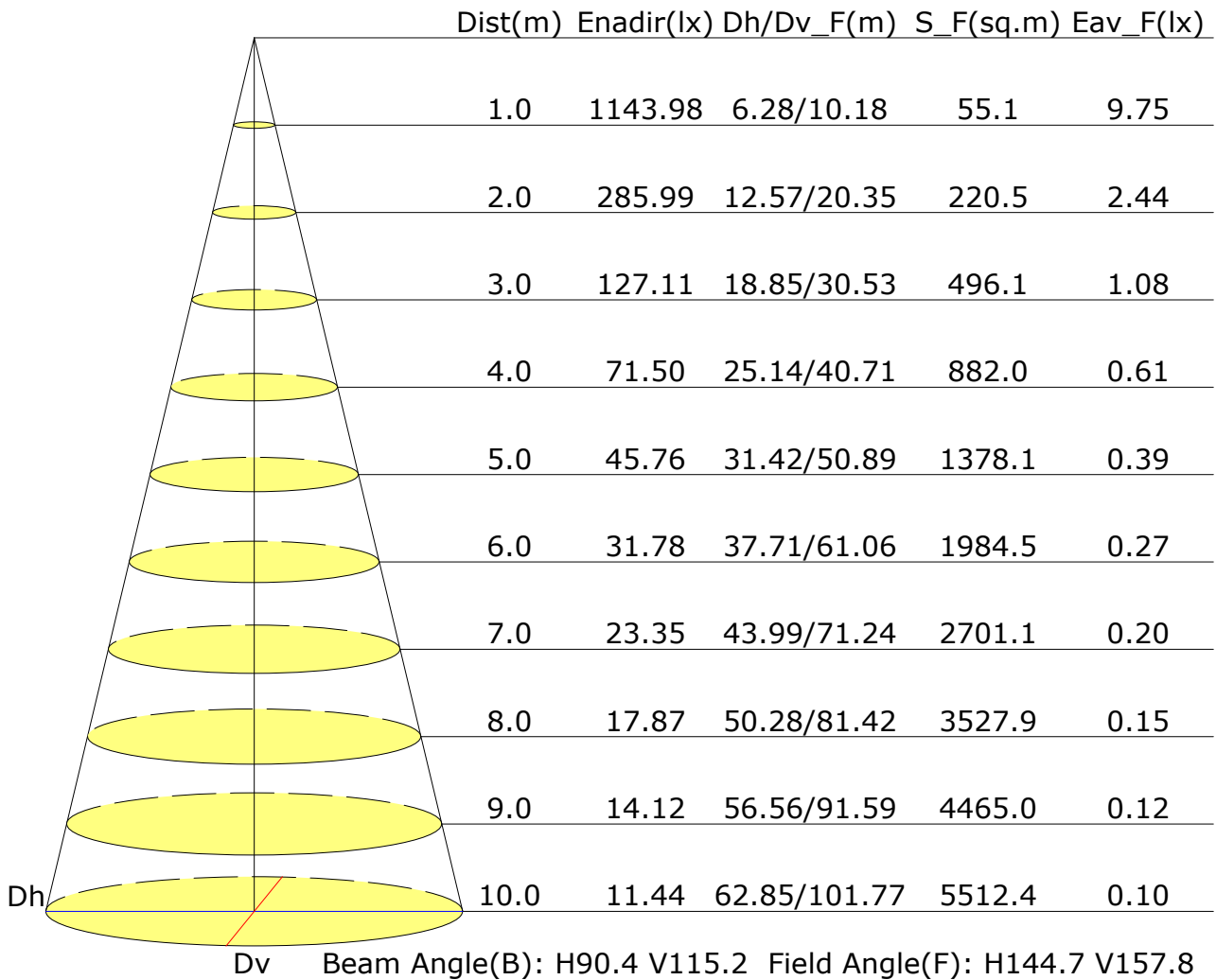
Illuminance at a Distance(Beam Angle)



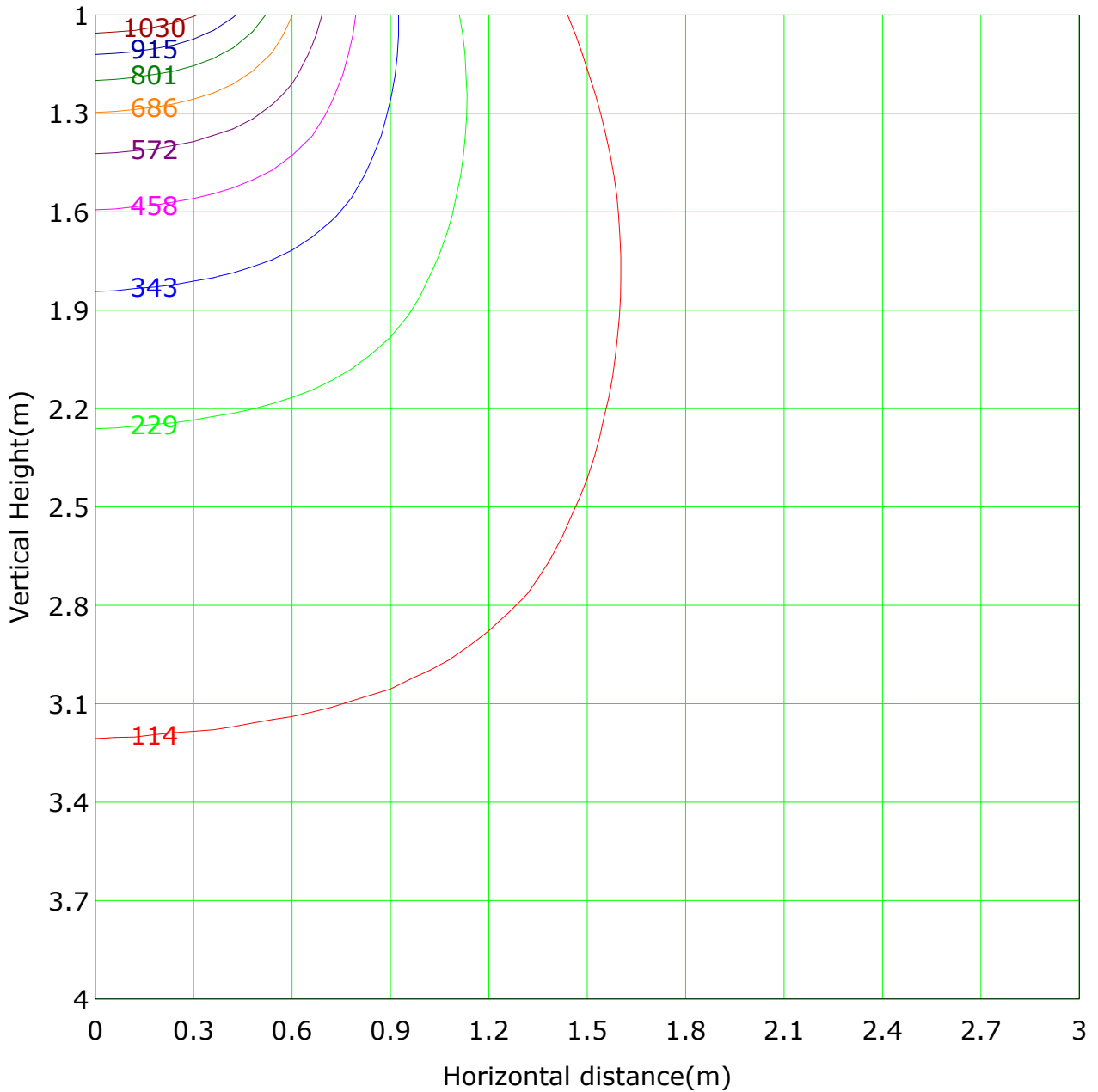
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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

Illuminance at a Distance(Field Angle)



Vertical IsoLux Plot



Lowest(m): 1.0m		Highest(m): 4.0m		Max Lux: 1144.0 lx	
— (10%): 114.4 lx		— (20%): 228.8 lx		— (40%): 457.6 lx	
— (30%): 343.2 lx		— (50%): 572.0 lx		— (60%): 686.4 lx	
— (70%): 800.8 lx		— (80%): 915.2 lx		— (100%):1144.0 lx	
— (90%):1029.6 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:

Area Flux Table

Unit: lm

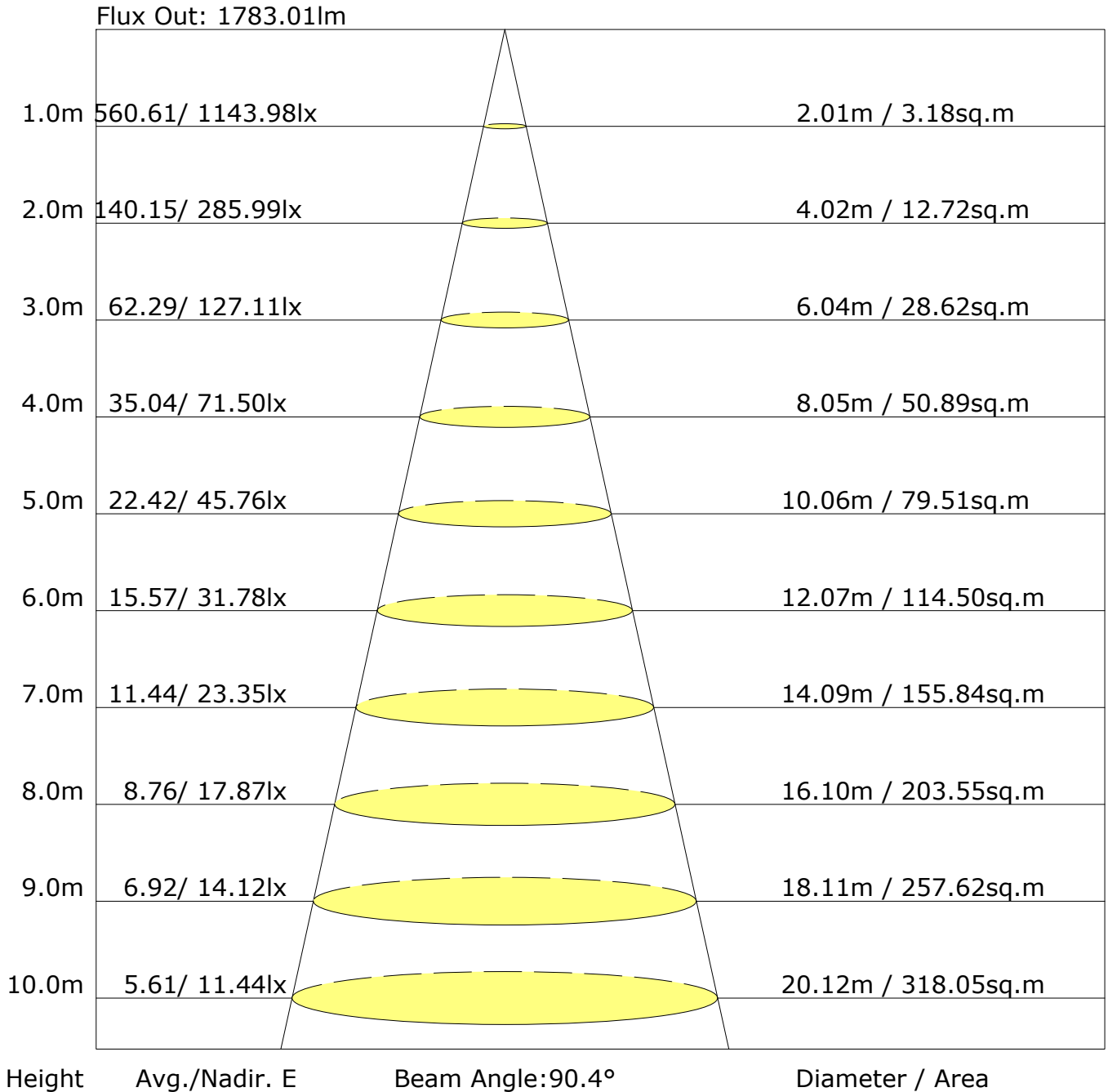
		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(E)	Flux(T)	0.0	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.0	0.9	0.7	0.5	0.3	0.2	0.1	0.0	0.0	0.0	Flux(E)	Flux(T)
0.0	0.7	0.0	0.1	0.4	1.0	1.8	2.9	3.9	4.8	5.3	5.3	4.6	3.7	2.6	1.6	0.8	0.3	0.0	0.0	0.0	2900	2966
0.0	8.4	0.0	0.2	0.9	1.9	3.7	5.9	8.3	10.2	11.5	11.4	10.0	8.0	5.6	3.4	1.7	0.7	0.2	0.0	0.0		
0.0	28.8	0.0	0.4	0.9	1.9	3.7	6.1	8.6	10.7	12.2	12.2	10.7	8.6	6.0	3.6	1.8	0.8	0.3	0.0	0.0		
0.0	69.0	0.0	0.8	1.9	3.7	6.1	9.7	13.8	17.0	19.0	19.0	17.1	13.9	9.6	5.7	2.9	1.2	0.3	0.0	0.0		
0.0	133.0	0.0	1.3	3.0	5.8	9.7	13.3	18.8	22.9	25.0	23.0	19.0	13.3	8.0	4.0	2.1	0.6	0.0	0.0	0.0		
0.0	214.3	0.0	1.7	4.1	8.1	13.3	18.8	22.9	27.8	29.4	29.3	27.7	23.1	16.5	10.0	5.1	2.1	0.6	0.0	0.0		
0.0	3299.7	0.0	2.2	5.2	10.1	16.3	22.9	27.9	32.6	33.8	33.5	32.2	28.1	20.5	12.6	6.4	2.6	0.7	0.1	0.1		
0.0	8379.7	0.0	2.5	6.0	11.7	18.6	25.8	30.8	32.2	31.9	30.5	26.0	18.8	11.6	5.9	2.4	0.7	0.0	0.0	0.0		
0.0	129.2	0.0	2.7	6.5	12.6	20.1	27.9	32.6	33.8	33.5	32.2	28.1	20.5	12.6	6.4	2.6	0.7	0.1	0.1	0.1		
0.0	210.9	0.0	2.7	6.6	12.8	20.6	28.8	33.5	34.5	34.3	33.1	29.0	21.0	12.8	6.5	2.6	0.7	0.1	0.1	0.1		
0.0	296.6	0.0	2.7	6.6	12.8	20.6	28.8	33.5	34.5	34.3	33.1	29.0	21.0	12.8	6.5	2.6	0.7	0.1	0.1	0.1		
0.0	6354.8	0.0	2.7	6.5	12.5	19.9	27.6	32.2	33.4	33.1	31.8	27.4	19.9	12.3	6.2	2.5	0.7	0.1	0.1	0.1		
0.0	8376.8	0.0	2.5	6.0	11.5	18.2	25.3	30.1	31.4	31.3	29.8	25.0	17.9	11.1	5.7	2.3	0.7	0.0	0.0	0.0		
0.0	8375.1	0.0	2.2	5.2	10.0	15.9	22.3	26.9	28.3	28.2	26.6	21.9	15.5	9.4	4.8	2.0	0.6	0.0	0.0	0.0		
0.0	1351.3	0.0	2.2	5.2	10.0	15.9	22.3	26.9	28.3	28.2	26.6	21.9	15.5	9.4	4.8	2.0	0.6	0.0	0.0	0.0		
0.0	3295.1	0.0	2.2	5.2	10.0	15.9	22.3	26.9	28.3	28.2	26.6	21.9	15.5	9.4	4.8	2.0	0.6	0.0	0.0	0.0		
0.0	1209.8	0.0	1.8	4.1	8.0	12.9	18.1	22.0	23.8	23.7	21.7	17.8	12.4	7.4	3.8	1.6	0.5	0.0	0.0	0.0		
0.0	8125.9	0.0	1.3	3.0	5.8	9.4	13.3	16.2	18.0	17.9	16.0	12.9	9.0	5.4	2.7	1.2	0.3	0.0	0.0	0.0		
0.0	61.4	0.0	0.5	1.3	2.9	4.0	4.9	5.6	5.6	4.9	4.9	3.9	2.8	1.7	0.8	0.3	0.0	0.0	0.0	0.0		
0.0	21.7	0.0	0.1	0.4	0.9	1.8	2.9	4.0	4.9	5.6	5.6	4.9	3.9	2.8	1.7	0.8	0.3	0.0	0.0	0.0		
0.0	7.4	0.0	0.1	0.4	0.9	1.8	2.9	4.0	4.9	5.6	5.6	4.9	3.9	2.8	1.7	0.8	0.3	0.0	0.0	0.0		
0.0	0.4	0.0	0.0	0.0	0.1	0.3	0.6	0.8	0.9	1.0	1.0	0.9	0.7	0.5	0.3	0.1	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.8	0.9	1.0	1.0	0.9	0.7	0.5	0.3	0.1	0.0	0.0	0.0	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-1600
 Distance: 8.567 m
 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-1600
 Distance: 8.567 m
 Humidity:
 Inspector:

UGR Table

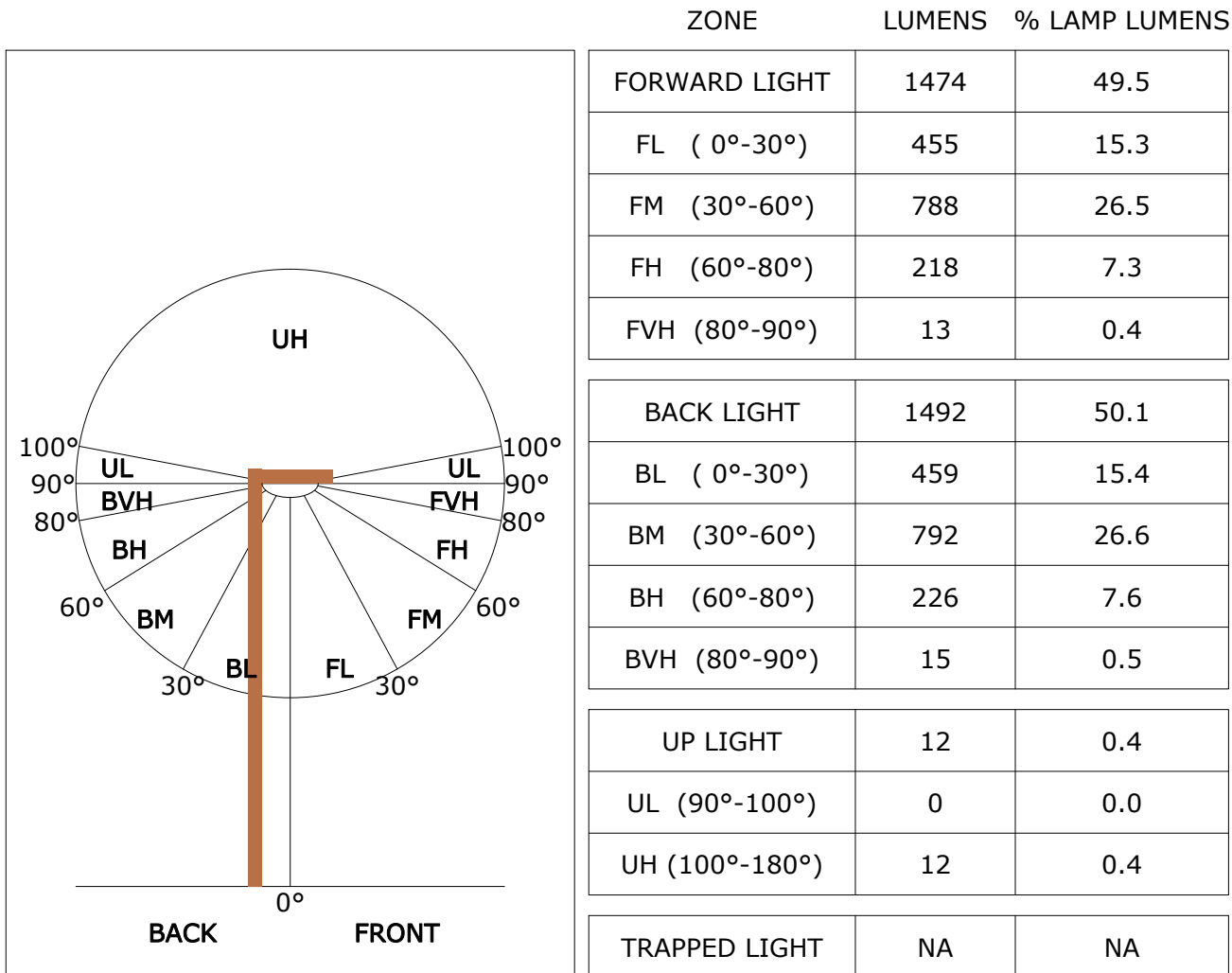
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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	-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 2978lm ($8\log(F/F_0) = 3.8$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

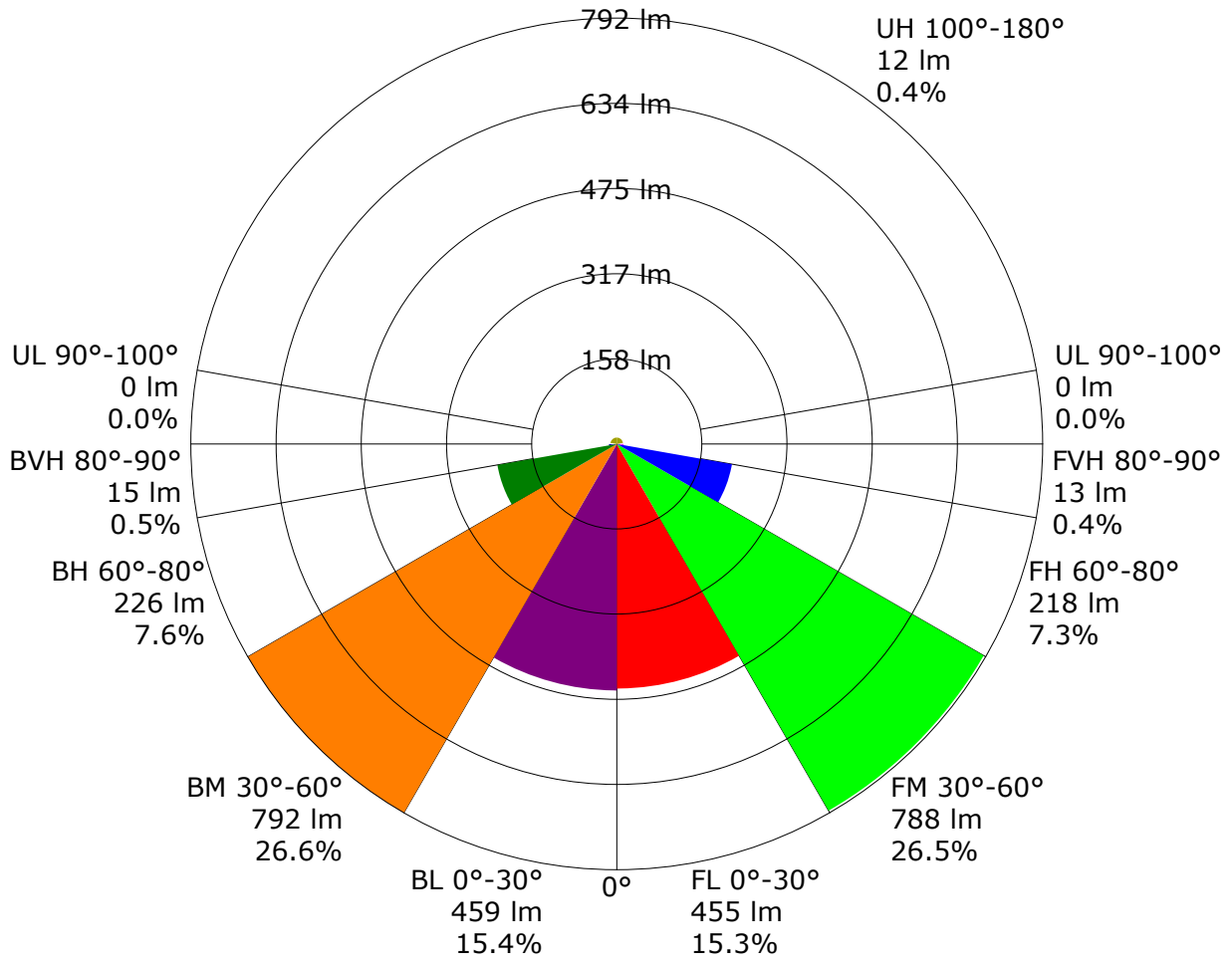


BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 G1

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-1600
 Distance: 8.567 m
 Humidity:
 Inspector:

LCS Graph



Back Light

Forward Light

Scale= 792 lm

Trapped Light:NA,NA

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	0.60	0.71	0.78	0.83	0.90	0.95	0.98	1.02	1.05
	0.30		0.53	0.63	0.71	0.76	0.84	0.89	0.93	0.98	1.02
	0.20		0.47	0.58	0.66	0.71	0.79	0.85	0.89	0.95	0.99
0.50	0.50	0.20	0.59	0.69	0.75	0.80	0.87	0.91	0.94	0.98	1.00
	0.30		0.52	0.62	0.69	0.75	0.82	0.87	0.90	0.95	0.98
	0.20		0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.95
0.30	0.50	0.20	0.57	0.67	0.73	0.78	0.84	0.88	0.91	0.94	0.97
	0.30		0.51	0.61	0.68	0.73	0.80	0.84	0.88	0.92	0.94
	0.20		0.47	0.57	0.64	0.69	0.76	0.81	0.85	0.90	0.92
0.00	0.00	0.00	0.45	0.54	0.61	0.66	0.73	0.78	0.81	0.85	0.88
<p>Rating:28W 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-1600
 Distance: 8.567 m
 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	0.94	0.77	0.65	0.56	0.44	0.37	0.31	0.24	0.19	
	0.30		0.79	0.66	0.56	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.67	0.57	0.50	0.45	0.37	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.91	0.74	0.62	0.54	0.42	0.38	0.30	0.23	0.18	
	0.30		0.77	0.64	0.55	0.48	0.39	0.32	0.28	0.21	0.18	
	0.20		0.67	0.56	0.49	0.43	0.36	0.30	0.26	0.20	0.17	
0.30	0.50	0.20	0.88	0.71	0.59	0.51	0.40	0.33	0.28	0.21	0.18	
	0.30		0.75	0.62	0.53	0.46	0.37	0.31	0.26	0.21	0.17	
	0.20		0.66	0.56	0.48	0.43	0.35	0.29	0.25	0.20	0.16	
0.00	0.00	0.00	0.55	0.45	0.39	0.34	0.27	0.22	0.19	0.15	0.12	
<p>Rating:28W 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-1600
 Distance: 8.567 m
 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	0.18	0.18	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.15	0.16	0.17
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	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	0.12	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	0.18	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:28W 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-1600
 Distance: 8.567 m
 Humidity:
 Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1139.2	1.1	1.1	0.04	0.04
1.0-2.0	1138.4	3.3	4.4	0.11	0.15
2.0-3.0	1137.0	5.4	9.8	0.18	0.33
3.0-4.0	1136.2	7.6	17.4	0.26	0.58
4.0-5.0	1136.2	9.8	27.2	0.33	0.91
5.0-6.0	1136.3	11.9	39.1	0.40	1.31
6.0-7.0	1135.9	14.1	53.2	0.47	1.79
7.0-8.0	1134.5	16.2	69.5	0.55	2.33
8.0-9.0	1133.1	18.4	87.8	0.62	2.95
9.0-10.0	1132.4	20.5	108.3	0.69	3.64
10.0-11.0	1131.1	22.6	130.9	0.76	4.40
11.0-12.0	1129.7	24.7	155.6	0.83	5.23
12.0-13.0	1128.1	26.8	182.4	0.90	6.12
13.0-14.0	1126.4	28.8	211.2	0.97	7.09
14.0-15.0	1124.2	30.9	242.1	1.04	8.13
15.0-16.0	1121.2	32.9	275.0	1.10	9.23
16.0-17.0	1117.9	34.8	309.8	1.17	10.40
17.0-18.0	1113.6	36.7	346.5	1.23	11.63
18.0-19.0	1108.6	38.6	385.1	1.30	12.93
19.0-20.0	1104.3	40.4	425.5	1.36	14.29
20.0-21.0	1098.7	42.2	467.7	1.42	15.70
21.0-22.0	1092.1	43.9	511.6	1.47	17.18
22.0-23.0	1085.3	45.5	557.1	1.53	18.71
23.0-24.0	1076.4	47.1	604.2	1.58	20.29
24.0-25.0	1067.4	48.5	652.7	1.63	21.92
25.0-26.0	1058.1	50.0	702.7	1.68	23.59
26.0-27.0	1047.0	51.2	753.9	1.72	25.31
27.0-28.0	1035.2	52.4	806.3	1.76	27.07
28.0-29.0	1021.9	53.5	859.8	1.80	28.87
29.0-30.0	1007.4	54.4	914.2	1.83	30.70
30.0-31.0	992.5	55.2	969.5	1.85	32.55
31.0-32.0	977.2	56.0	1025.4	1.88	34.43
32.0-33.0	961.2	56.6	1082.1	1.90	36.33
33.0-34.0	944.4	57.2	1139.2	1.92	38.25
34.0-35.0	926.5	57.5	1196.8	1.93	40.18
35.0-36.0	908.1	57.8	1254.6	1.94	42.12

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	890.0	58.1	1312.7	1.95	44.07
37.0-38.0	871.4	58.2	1370.8	1.95	46.03
38.0-39.0	852.1	58.2	1429.0	1.95	47.98
39.0-40.0	833.0	58.1	1487.1	1.95	49.93
40.0-41.0	813.9	58.0	1545.1	1.95	51.88
41.0-42.0	794.2	57.7	1602.8	1.94	53.82
42.0-43.0	773.8	57.3	1660.1	1.92	55.74
43.0-44.0	753.1	56.8	1717.0	1.91	57.65
44.0-45.0	732.1	56.3	1773.2	1.89	59.54
45.0-46.0	710.7	55.6	1828.8	1.87	61.40
46.0-47.0	688.9	54.8	1883.6	1.84	63.24
47.0-48.0	667.7	54.0	1937.6	1.81	65.06
48.0-49.0	646.3	53.1	1990.7	1.78	66.84
49.0-50.0	624.8	52.1	2042.8	1.75	68.59
50.0-51.0	603.3	51.0	2093.8	1.71	70.30
51.0-52.0	581.2	49.9	2143.7	1.67	71.98
52.0-53.0	559.3	48.7	2192.4	1.63	73.61
53.0-54.0	537.5	47.4	2239.8	1.59	75.20
54.0-55.0	515.6	46.0	2285.8	1.55	76.75
55.0-56.0	493.9	44.6	2330.4	1.50	78.25
56.0-57.0	472.5	43.2	2373.6	1.45	79.70
57.0-58.0	451.2	41.7	2415.4	1.40	81.10
58.0-59.0	429.9	40.2	2455.6	1.35	82.45
59.0-60.0	409.0	38.6	2494.2	1.30	83.75
60.0-61.0	388.3	37.1	2531.3	1.24	84.99
61.0-62.0	367.8	35.4	2566.7	1.19	86.18
62.0-63.0	347.8	33.8	2600.5	1.14	87.32
63.0-64.0	328.6	32.3	2632.8	1.08	88.40
64.0-65.0	309.7	30.7	2663.4	1.03	89.43
65.0-66.0	290.7	29.0	2692.5	0.97	90.40
66.0-67.0	272.3	27.4	2719.8	0.92	91.32
67.0-68.0	254.3	25.8	2745.6	0.87	92.19
68.0-69.0	237.0	24.2	2769.8	0.81	93.00
69.0-70.0	220.2	22.6	2792.4	0.76	93.76
70.0-71.0	203.7	21.1	2813.5	0.71	94.46
71.0-72.0	187.6	19.5	2833.0	0.66	95.12

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	172.1	18.0	2851.0	0.60	95.72
73.0-74.0	156.9	16.5	2867.5	0.55	96.28
74.0-75.0	142.4	15.0	2882.5	0.51	96.78
75.0-76.0	128.6	13.7	2896.2	0.46	97.24
76.0-77.0	115.5	12.3	2908.5	0.41	97.65
77.0-78.0	103.0	11.0	2919.5	0.37	98.03
78.0-79.0	90.9	9.8	2929.3	0.33	98.35
79.0-80.0	78.9	8.5	2937.8	0.29	98.64
80.0-81.0	67.5	7.3	2945.1	0.25	98.88
81.0-82.0	56.6	6.1	2951.2	0.21	99.09
82.0-83.0	45.7	5.0	2956.2	0.17	99.26
83.0-84.0	35.0	3.8	2960.0	0.13	99.38
84.0-85.0	25.0	2.7	2962.7	0.09	99.48
85.0-86.0	16.2	1.8	2964.5	0.06	99.54
86.0-87.0	8.9	1.0	2965.5	0.03	99.57
87.0-88.0	3.5	0.4	2965.9	0.01	99.58
88.0-89.0	0.9	0.1	2966.0	0.00	99.59
89.0-90.0	0.2	0.0	2966.0	0.00	99.59
90.0-91.0	0.2	0.0	2966.0	0.00	99.59
91.0-92.0	0.2	0.0	2966.0	0.00	99.59
92.0-93.0	0.3	0.0	2966.1	0.00	99.59
93.0-94.0	0.3	0.0	2966.1	0.00	99.59
94.0-95.0	0.3	0.0	2966.1	0.00	99.59
95.0-96.0	0.3	0.0	2966.2	0.00	99.59
96.0-97.0	0.4	0.0	2966.2	0.00	99.59
97.0-98.0	0.3	0.0	2966.2	0.00	99.59
98.0-99.0	0.4	0.0	2966.3	0.00	99.60
99.0-100.0	0.5	0.1	2966.3	0.00	99.60
100.0-101.0	0.5	0.0	2966.4	0.00	99.60
101.0-102.0	0.4	0.0	2966.4	0.00	99.60
102.0-103.0	0.4	0.0	2966.5	0.00	99.60
103.0-104.0	0.5	0.1	2966.5	0.00	99.60
104.0-105.0	0.5	0.1	2966.6	0.00	99.61
105.0-106.0	0.5	0.1	2966.6	0.00	99.61
106.0-107.0	0.5	0.1	2966.7	0.00	99.61
107.0-108.0	0.5	0.1	2966.7	0.00	99.61

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.5	0.1	2966.8	0.00	99.61
109.0-110.0	0.6	0.1	2966.9	0.00	99.62
110.0-111.0	0.9	0.1	2967.0	0.00	99.62
111.0-112.0	1.1	0.1	2967.1	0.00	99.62
112.0-113.0	0.9	0.1	2967.2	0.00	99.63
113.0-114.0	0.9	0.1	2967.3	0.00	99.63
114.0-115.0	1.0	0.1	2967.4	0.00	99.63
115.0-116.0	1.1	0.1	2967.5	0.00	99.64
116.0-117.0	1.1	0.1	2967.6	0.00	99.64
117.0-118.0	1.3	0.1	2967.7	0.00	99.64
118.0-119.0	1.5	0.1	2967.8	0.00	99.65
119.0-120.0	1.7	0.2	2968.0	0.01	99.65
120.0-121.0	2.0	0.2	2968.2	0.01	99.66
121.0-122.0	2.3	0.2	2968.4	0.01	99.67
122.0-123.0	2.6	0.2	2968.7	0.01	99.68
123.0-124.0	2.7	0.2	2968.9	0.01	99.68
124.0-125.0	2.7	0.2	2969.1	0.01	99.69
125.0-126.0	2.7	0.2	2969.4	0.01	99.70
126.0-127.0	2.7	0.2	2969.6	0.01	99.71
127.0-128.0	2.9	0.3	2969.9	0.01	99.72
128.0-129.0	3.0	0.3	2970.1	0.01	99.72
129.0-130.0	3.0	0.3	2970.4	0.01	99.73
130.0-131.0	3.1	0.3	2970.6	0.01	99.74
131.0-132.0	3.2	0.3	2970.9	0.01	99.75
132.0-133.0	3.2	0.3	2971.2	0.01	99.76
133.0-134.0	3.1	0.2	2971.4	0.01	99.77
134.0-135.0	3.0	0.2	2971.6	0.01	99.78
135.0-136.0	3.0	0.2	2971.9	0.01	99.78
136.0-137.0	3.2	0.2	2972.1	0.01	99.79
137.0-138.0	3.3	0.2	2972.4	0.01	99.80
138.0-139.0	3.3	0.2	2972.6	0.01	99.81
139.0-140.0	3.3	0.2	2972.8	0.01	99.82
140.0-141.0	3.1	0.2	2973.1	0.01	99.82
141.0-142.0	3.2	0.2	2973.3	0.01	99.83
142.0-143.0	3.3	0.2	2973.5	0.01	99.84
143.0-144.0	3.4	0.2	2973.7	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-1600
 Distance: 8.567 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	3.3	0.2	2973.9	0.01	99.85
145.0-146.0	3.2	0.2	2974.1	0.01	99.86
146.0-147.0	3.2	0.2	2974.3	0.01	99.87
147.0-148.0	3.3	0.2	2974.5	0.01	99.87
148.0-149.0	3.3	0.2	2974.7	0.01	99.88
149.0-150.0	3.4	0.2	2974.9	0.01	99.88
150.0-151.0	3.5	0.2	2975.1	0.01	99.89
151.0-152.0	3.5	0.2	2975.3	0.01	99.90
152.0-153.0	3.6	0.2	2975.4	0.01	99.90
153.0-154.0	3.7	0.2	2975.6	0.01	99.91
154.0-155.0	3.8	0.2	2975.8	0.01	99.92
155.0-156.0	3.8	0.2	2976.0	0.01	99.92
156.0-157.0	4.0	0.2	2976.1	0.01	99.93
157.0-158.0	4.1	0.2	2976.3	0.01	99.93
158.0-159.0	4.0	0.2	2976.5	0.01	99.94
159.0-160.0	4.0	0.2	2976.6	0.01	99.94
160.0-161.0	4.0	0.1	2976.8	0.00	99.95
161.0-162.0	4.1	0.1	2976.9	0.00	99.95
162.0-163.0	4.1	0.1	2977.1	0.00	99.96
163.0-164.0	4.2	0.1	2977.2	0.00	99.96
164.0-165.0	4.4	0.1	2977.3	0.00	99.97
165.0-166.0	4.4	0.1	2977.4	0.00	99.97
166.0-167.0	4.4	0.1	2977.6	0.00	99.97
167.0-168.0	4.6	0.1	2977.7	0.00	99.98
168.0-169.0	4.7	0.1	2977.8	0.00	99.98
169.0-170.0	4.7	0.1	2977.9	0.00	99.98
170.0-171.0	4.7	0.1	2977.9	0.00	99.99
171.0-172.0	4.8	0.1	2978.0	0.00	99.99
172.0-173.0	4.9	0.1	2978.1	0.00	99.99
173.0-174.0	4.9	0.1	2978.2	0.00	99.99
174.0-175.0	5.0	0.1	2978.2	0.00	100.00
175.0-176.0	5.1	0.0	2978.2	0.00	100.00
176.0-177.0	5.0	0.0	2978.3	0.00	100.00
177.0-178.0	5.0	0.0	2978.3	0.00	100.00
178.0-179.0	5.0	0.0	2978.3	0.00	100.00
179.0-180.0	4.9	0.0	2978.3	0.00	100.00

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-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	1144.0	1141.8	1139.3	1137.8	1138.1	1135.2	1144.0	1141.8	1139.3	1137.8
G1.0	1141.9	1142.2	1140.7	1137.9	1134.9	1138.4	1145.1	1142.2	1139.3	1137.0
G2.0	1142.6	1138.7	1136.6	1135.0	1136.6	1133.7	1145.5	1143.2	1135.9	1137.1
G3.0	1139.9	1135.0	1137.4	1134.4	1135.6	1133.2	1144.2	1140.3	1137.1	1134.9
G4.0	1137.3	1133.5	1136.6	1134.7	1134.4	1138.4	1146.0	1138.9	1136.8	1132.8
G5.0	1137.7	1138.5	1133.7	1133.8	1136.3	1137.5	1147.8	1142.2	1137.0	1130.4
G6.0	1138.6	1138.4	1135.1	1132.7	1138.8	1139.3	1149.1	1141.4	1133.0	1128.2
G7.0	1140.3	1136.8	1133.4	1132.9	1136.2	1140.6	1152.3	1144.4	1131.5	1125.7
G8.0	1137.2	1132.3	1129.4	1130.2	1133.1	1139.8	1153.7	1141.5	1130.4	1122.0
G9.0	1136.5	1132.5	1129.0	1128.1	1133.0	1142.1	1154.0	1144.1	1127.1	1119.5
G10.0	1136.6	1134.1	1126.3	1127.7	1131.8	1143.6	1155.9	1142.5	1122.9	1119.0
G11.0	1138.0	1131.8	1124.3	1125.2	1128.3	1146.0	1154.0	1142.9	1127.5	1112.1
G12.0	1137.3	1131.8	1122.5	1117.1	1130.9	1145.5	1156.2	1143.7	1118.4	1108.5
G13.0	1136.7	1131.2	1119.1	1116.3	1127.2	1145.2	1157.7	1141.6	1119.6	1105.3
G14.0	1135.2	1126.3	1115.6	1113.3	1127.0	1142.2	1156.3	1144.2	1116.8	1102.5
G15.0	1131.5	1127.1	1110.8	1108.9	1125.7	1145.3	1151.7	1142.4	1115.0	1095.2
G16.0	1133.4	1123.6	1107.8	1103.9	1124.0	1141.9	1147.7	1136.6	1109.9	1090.7
G17.0	1130.7	1122.9	1104.7	1101.6	1118.9	1140.3	1143.9	1133.0	1105.0	1085.7
G18.0	1123.4	1122.8	1099.0	1097.7	1120.2	1137.0	1136.3	1130.4	1100.4	1075.3
G19.0	1120.2	1119.1	1094.9	1089.7	1112.8	1131.4	1126.6	1122.0	1098.6	1071.7
G20.0	1115.5	1111.6	1093.8	1082.4	1112.3	1125.2	1123.1	1118.3	1095.5	1066.2
G21.0	1106.3	1105.4	1086.8	1075.9	1107.4	1118.5	1112.8	1110.8	1085.6	1057.3
G22.0	1096.8	1100.9	1085.1	1073.1	1105.3	1112.8	1101.7	1101.8	1085.2	1051.6
G23.0	1086.6	1093.9	1079.6	1066.8	1099.2	1104.0	1084.9	1094.0	1079.8	1045.6
G24.0	1072.7	1085.3	1073.4	1058.8	1096.3	1092.9	1068.2	1080.1	1070.2	1034.9
G25.0	1063.2	1073.9	1072.6	1055.0	1089.1	1081.3	1049.9	1069.8	1065.3	1030.0
G26.0	1047.2	1064.2	1061.8	1045.4	1081.0	1069.7	1033.3	1057.4	1060.7	1021.5
G27.0	1025.9	1053.7	1059.1	1038.7	1075.5	1054.2	1009.3	1044.7	1051.2	1015.2
G28.0	1006.5	1039.1	1052.5	1032.9	1067.6	1037.7	987.9	1028.0	1044.2	1004.2
G29.0	983.7	1025.7	1042.5	1023.8	1058.8	1021.1	961.3	1010.4	1033.9	995.1
G30.0	958.2	1011.7	1034.9	1015.5	1052.4	1003.0	938.3	988.1	1021.9	985.5
G31.0	935.8	992.6	1029.5	1008.0	1041.6	984.4	911.9	967.7	1011.4	974.0
G32.0	912.6	972.7	1018.6	999.3	1031.3	962.6	889.2	948.9	1000.7	964.1
G33.0	887.0	956.3	1008.2	991.3	1019.4	940.6	864.1	929.0	988.9	953.1
G34.0	862.4	932.1	1000.9	979.8	1007.0	917.6	840.2	903.0	975.3	945.8
G35.0	833.3	908.6	986.3	967.1	993.2	892.4	815.8	882.8	963.8	933.3
G36.0	809.7	888.4	974.5	958.2	977.5	871.7	790.6	860.0	946.9	921.4

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 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	784.9	865.8	959.5	946.0	965.2	849.6	764.6	837.3	935.6	908.0
G38.0	757.0	845.7	946.1	932.8	948.4	827.3	742.1	815.2	919.7	896.4
G39.0	731.7	818.9	930.8	921.2	934.0	804.2	717.8	791.8	900.9	881.2
G40.0	706.2	797.8	915.5	907.7	916.7	782.2	695.8	769.5	887.0	869.5
G41.0	682.0	775.1	900.4	895.2	897.7	761.3	673.9	748.7	866.7	856.4
G42.0	655.0	751.2	881.3	883.3	880.6	737.8	650.7	727.2	847.8	841.2
G43.0	632.6	728.5	859.0	868.7	855.9	717.4	628.9	706.0	829.7	825.6
G44.0	604.5	705.7	842.6	852.4	836.7	695.3	606.8	683.1	808.1	810.3
G45.0	582.9	682.2	823.1	834.6	815.8	673.5	583.3	661.7	787.3	794.7
G46.0	557.9	659.5	800.7	819.7	792.3	651.4	559.4	639.1	763.4	779.3
G47.0	533.6	635.5	781.0	802.0	769.2	630.3	537.2	618.3	741.4	758.4
G48.0	509.8	613.4	757.3	783.8	749.0	608.4	514.6	599.0	721.2	743.7
G49.0	485.8	590.4	733.3	765.6	724.7	587.4	492.1	578.4	696.7	724.7
G50.0	461.9	566.6	711.1	746.6	703.8	566.5	469.9	558.9	679.2	709.2
G51.0	439.2	544.0	687.3	727.6	679.5	544.9	447.2	537.1	655.2	689.8
G52.0	416.6	521.9	662.8	706.5	656.8	522.3	425.8	516.0	633.0	671.2
G53.0	395.4	497.4	639.9	686.4	633.1	502.5	405.0	494.5	610.3	650.9
G54.0	375.9	476.3	616.5	665.3	610.5	480.6	384.5	472.8	586.0	628.8
G55.0	355.7	452.9	592.8	644.5	587.4	457.1	364.7	451.7	564.4	607.8
G56.0	336.9	430.0	568.3	622.0	562.9	435.3	346.0	431.5	544.2	586.5
G57.0	318.8	408.1	545.1	601.2	539.9	414.0	327.8	411.2	522.1	564.9
G58.0	299.6	387.0	521.6	576.4	516.4	392.6	309.5	390.4	499.4	544.8
G59.0	283.8	364.8	498.3	554.7	493.4	372.1	292.1	369.8	477.2	522.4
G60.0	266.9	343.3	475.0	531.5	470.9	350.6	275.0	349.9	455.3	500.5
G61.0	250.9	323.6	452.1	507.7	447.4	331.4	258.0	330.8	434.1	478.4
G62.0	235.6	304.8	428.5	484.3	424.5	310.8	243.2	311.3	411.8	454.6
G63.0	220.6	284.7	405.6	461.4	405.0	291.7	228.7	289.8	390.3	432.1
G64.0	207.1	267.3	383.4	442.9	382.1	272.8	214.2	275.3	370.3	410.4
G65.0	193.3	249.9	360.6	412.1	360.6	255.9	200.9	257.8	349.5	389.1
G66.0	180.9	233.3	339.3	388.6	339.9	238.6	188.4	240.4	328.6	365.3
G67.0	168.8	215.9	317.4	365.6	319.4	221.8	175.9	223.9	308.2	343.4
G68.0	157.0	200.1	295.4	342.4	298.2	206.4	164.1	208.8	288.2	320.8
G69.0	146.1	185.9	275.7	319.4	278.3	191.7	153.5	194.0	269.2	299.4
G70.0	135.2	171.5	254.6	296.1	257.6	178.1	142.7	179.4	250.1	279.1
G71.0	125.4	156.8	234.6	273.6	237.6	163.0	132.7	166.1	231.9	256.9
G72.0	115.4	144.7	215.9	250.9	218.1	149.4	122.5	153.0	214.3	235.1
G73.0	105.9	132.5	196.8	227.0	201.5	136.8	113.3	140.4	196.1	213.8

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 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	96.8	118.2	179.4	205.1	182.7	124.2	103.9	128.2	178.9	193.8
G75.0	88.4	106.0	160.8	185.6	165.8	112.7	95.8	117.0	162.0	176.3
G76.0	80.4	97.7	144.2	166.9	147.0	101.3	87.8	105.6	145.2	158.2
G77.0	71.9	87.3	128.1	149.3	130.6	91.2	79.6	94.9	129.9	142.6
G78.0	64.0	77.1	113.5	132.0	115.9	81.3	71.9	84.5	115.6	125.9
G79.0	55.8	67.6	98.7	114.3	100.7	71.9	64.0	75.5	101.8	109.4
G80.0	46.6	58.2	84.9	96.7	87.9	63.1	55.9	66.3	88.8	92.8
G81.0	37.4	49.1	71.1	81.6	75.0	54.0	48.1	57.8	75.3	79.0
G82.0	28.9	40.3	59.1	67.4	64.1	46.8	40.3	48.8	57.8	65.2
G83.0	19.7	30.1	48.0	52.3	52.8	38.5	32.6	40.9	38.6	51.9
G84.0	11.0	20.4	37.8	39.4	41.1	28.5	23.4	33.0	26.6	39.5
G85.0	3.8	11.3	28.3	26.7	31.6	18.2	13.9	22.7	19.9	27.8
G86.0	0.3	4.3	18.5	15.9	22.8	10.1	8.0	13.9	13.9	16.5
G87.0	0.0	1.7	8.1	6.2	12.5	4.4	2.7	6.1	9.1	7.3
G88.0	0.0	1.0	1.8	0.8	2.9	1.6	1.3	2.0	4.0	1.3
G89.0	0.0	0.6	0.0	0.0	0.0	0.3	0.8	0.0	1.5	0.0
G90.0	0.0	0.4	0.0	0.0	0.0	0.1	0.7	0.0	0.6	0.0
G91.0	0.0	0.6	0.0	0.0	0.0	0.4	0.5	0.5	0.5	0.0
G92.0	0.0	0.7	0.0	0.0	0.0	0.3	0.4	0.4	0.6	0.0
G93.0	0.0	0.7	0.0	0.0	0.0	0.5	0.5	0.0	0.7	0.0
G94.0	0.0	0.7	0.0	0.0	0.0	0.7	0.6	0.0	0.8	0.0
G95.0	0.0	0.5	0.0	0.0	0.0	0.7	0.5	0.0	0.5	0.0
G96.0	0.0	1.3	0.0	0.0	0.0	0.7	0.6	0.7	0.9	0.0
G97.0	0.0	0.9	0.0	0.0	0.0	0.7	0.5	0.6	0.7	0.0
G98.0	0.0	0.8	0.0	0.0	0.0	0.0	0.7	0.7	0.9	0.0
G99.0	0.0	0.9	0.0	0.0	0.0	0.6	0.7	0.8	1.7	0.0
G100.0	0.0	1.4	0.8	0.0	0.0	0.9	0.8	0.7	1.0	0.0
G101.0	0.0	0.0	0.9	0.0	1.1	0.9	0.7	0.0	1.1	0.0
G102.0	0.0	1.4	1.2	0.0	0.0	0.9	0.8	0.0	1.2	0.0
G103.0	0.0	1.0	0.0	0.0	0.0	0.9	0.9	0.0	1.2	0.0
G104.0	0.0	1.2	0.0	0.0	1.3	0.9	0.9	0.0	1.1	0.0
G105.0	0.0	1.0	0.0	0.0	1.5	0.8	0.9	0.0	1.3	0.0
G106.0	0.0	1.3	0.0	0.1	0.0	0.9	1.0	0.0	1.4	0.0
G107.0	0.0	1.4	0.0	0.2	0.0	1.2	0.9	0.0	1.5	0.1
G108.0	0.0	1.4	0.1	0.2	0.0	1.3	1.2	0.0	1.8	0.2
G109.0	0.0	1.4	0.1	0.3	0.1	1.3	1.2	0.0	1.6	0.0
G110.0	0.0	1.7	1.9	0.1	1.4	1.4	0.8	0.0	1.7	0.3

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 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	1.6	1.7	0.4	1.8	1.4	1.3	1.3	1.6	0.4
G112.0	0.0	1.6	2.3	0.5	0.3	1.6	1.7	1.5	1.9	0.2
G113.0	0.1	1.8	2.1	0.3	0.4	1.4	1.4	0.1	2.0	0.6
G114.0	0.0	1.8	2.3	0.7	0.5	1.7	1.5	0.0	2.1	0.7
G115.0	0.2	1.9	2.3	0.8	0.5	1.7	1.4	0.2	2.1	0.5
G116.0	0.0	2.0	2.4	0.9	0.6	1.8	1.9	0.3	2.0	0.9
G117.0	0.3	2.1	2.4	0.9	0.8	1.9	1.3	0.1	0.8	0.9
G118.0	0.3	3.0	2.5	1.0	0.5	2.1	1.9	0.4	2.2	1.0
G119.0	0.2	3.3	2.4	1.1	0.9	2.1	1.9	0.5	2.8	1.1
G120.0	1.4	3.4	2.7	1.2	1.0	1.9	1.8	0.3	2.6	1.2
G121.0	5.2	3.8	2.8	1.3	0.8	2.3	2.1	0.7	2.5	1.2
G122.0	7.4	3.4	3.2	1.3	1.2	2.2	2.1	0.8	2.7	1.3
G123.0	8.1	3.9	2.9	1.4	1.2	2.4	2.4	0.8	2.7	1.4
G124.0	8.2	3.7	2.9	1.2	1.3	1.0	2.3	1.0	2.9	1.6
G125.0	8.2	3.9	3.1	1.6	1.4	0.7	2.2	1.0	1.4	1.6
G126.0	8.0	4.4	3.2	1.7	1.5	1.1	0.9	1.1	1.2	1.7
G127.0	7.9	4.1	3.4	1.5	1.6	1.3	2.6	1.2	1.6	1.8
G128.0	7.7	4.3	3.3	1.9	3.2	1.3	2.7	1.3	1.6	1.8
G129.0	7.6	4.4	3.2	2.0	1.7	1.3	2.8	1.3	1.4	1.9
G130.0	7.2	4.2	3.5	2.0	1.8	2.8	2.7	1.4	1.8	2.1
G131.0	7.2	4.2	3.8	2.1	1.9	3.2	3.0	1.5	1.9	2.1
G132.0	7.0	4.0	3.6	2.1	1.6	3.2	3.2	1.6	2.0	2.1
G133.0	6.6	4.1	3.7	2.2	2.0	3.2	3.2	1.7	2.0	2.2
G134.0	6.5	4.3	3.8	2.3	2.1	3.3	1.7	1.8	2.1	2.3
G135.0	6.2	3.9	3.5	2.4	1.9	1.6	1.8	1.9	1.9	2.5
G136.0	6.0	4.3	3.8	2.4	2.2	2.0	1.9	2.0	2.2	2.4
G137.0	5.6	4.1	4.0	2.5	2.3	3.5	4.1	2.1	2.3	2.4
G138.0	5.5	4.2	4.1	2.5	2.3	3.7	3.5	2.2	2.1	2.2
G139.0	5.1	4.6	4.1	2.6	2.4	3.7	3.9	2.2	2.4	2.7
G140.0	4.8	3.9	4.0	2.7	2.5	4.0	2.2	2.0	2.5	2.7
G141.0	4.6	4.2	4.2	2.8	2.5	2.3	2.3	2.4	2.3	2.7
G142.0	4.2	4.1	4.6	2.8	2.6	2.4	4.3	2.4	2.6	2.8
G143.0	4.1	4.3	4.3	2.8	2.5	2.5	4.0	2.2	2.7	2.8
G144.0	3.9	4.7	4.4	2.6	2.7	3.9	4.1	2.6	2.7	2.6
G145.0	3.7	4.4	4.3	3.0	2.7	2.3	2.5	2.5	2.8	2.9
G146.0	3.5	4.4	4.7	3.0	2.5	2.7	2.3	2.4	2.8	3.0
G147.0	3.2	4.6	4.5	2.8	2.8	2.8	2.7	2.7	2.9	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 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	3.3	4.6	4.7	3.1	2.9	2.5	2.7	2.7	2.9	3.1
G149.0	3.3	4.5	4.7	3.2	2.9	2.8	2.7	2.8	3.0	3.2
G150.0	2.9	5.2	4.5	3.2	3.0	2.9	2.9	2.8	3.0	3.1
G151.0	3.2	4.8	4.8	3.3	3.0	2.9	2.9	2.9	3.1	3.2
G152.0	3.2	4.8	4.9	3.3	3.1	3.0	2.9	3.0	3.1	3.3
G153.0	3.3	4.9	4.7	3.4	3.1	3.1	3.1	3.1	3.2	3.3
G154.0	3.3	4.8	5.0	3.4	3.3	3.1	3.1	4.7	3.2	3.4
G155.0	3.4	4.9	5.0	3.5	3.2	3.2	3.1	4.5	3.3	3.4
G156.0	3.4	5.0	5.0	3.5	3.3	3.2	3.1	4.9	3.2	3.4
G157.0	3.5	5.1	5.3	3.5	3.4	3.3	3.2	4.7	5.0	5.1
G158.0	3.6	3.5	5.0	3.6	3.4	3.3	3.3	4.9	3.4	5.3
G159.0	3.5	3.6	5.2	3.6	3.4	3.1	3.3	4.8	3.5	5.2
G160.0	3.6	3.6	5.2	3.6	5.0	3.4	3.4	5.0	3.5	3.6
G161.0	3.7	3.6	5.0	3.4	5.0	3.5	3.4	5.1	3.3	3.4
G162.0	3.7	3.7	5.3	3.7	3.6	3.5	3.5	4.9	3.7	5.3
G163.0	3.7	3.7	5.3	3.8	3.4	3.6	3.3	5.1	3.7	5.3
G164.0	3.7	3.8	5.4	3.5	3.7	3.6	3.6	5.2	3.4	5.4
G165.0	3.8	3.6	5.9	3.8	3.8	3.7	3.7	5.3	3.8	5.4
G166.0	3.8	3.8	5.3	3.8	3.5	3.7	3.7	5.4	3.8	5.3
G167.0	3.5	5.4	5.4	3.8	3.8	3.8	3.8	5.4	3.8	5.5
G168.0	3.9	5.3	5.4	3.9	3.9	3.8	3.8	5.5	3.9	5.6
G169.0	3.9	5.5	5.6	3.9	3.8	3.8	3.9	5.5	3.9	5.4
G170.0	3.8	3.9	5.6	3.9	6.0	3.9	3.9	5.3	3.9	5.8
G171.0	3.9	4.0	5.7	4.0	5.3	3.9	3.9	5.3	4.0	5.7
G172.0	4.0	5.6	5.6	4.0	5.5	5.5	3.7	5.6	4.0	5.4
G173.0	4.0	5.6	5.6	4.0	6.2	5.3	4.0	5.7	4.0	5.6
G174.0	4.1	5.7	5.4	4.0	5.5	5.6	4.1	5.4	3.8	5.5
G175.0	4.1	5.6	5.7	4.1	5.6	6.2	4.1	5.6	3.8	5.2
G176.0	4.0	5.7	5.8	4.0	5.5	5.4	4.1	5.7	3.8	5.6
G177.0	3.8	5.8	6.1	3.8	5.5	5.4	4.1	5.5	4.1	4.1
G178.0	4.1	5.7	5.5	4.1	5.6	5.7	4.2	5.7	4.1	4.1
G179.0	4.2	5.5	5.5	4.1	5.6	5.5	4.2	6.3	3.8	4.1
G180.0	4.1	5.7	5.4	4.1	5.6	4.1	4.1	5.7	4.0	4.1

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 5)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	1138.1	1135.2	1144.0						
G1.0	1137.1	1132.2	1141.9						
G2.0	1133.5	1133.8	1142.6						
G3.0	1132.2	1131.9	1139.9						
G4.0	1131.9	1130.9	1137.3						
G5.0	1131.0	1130.9	1137.7						
G6.0	1130.1	1129.6	1138.6						
G7.0	1124.8	1129.1	1140.3						
G8.0	1123.3	1127.1	1137.2						
G9.0	1119.7	1128.8	1136.5						
G10.0	1117.0	1124.7	1136.6						
G11.0	1112.0	1122.5	1138.0						
G12.0	1111.2	1124.3	1137.3						
G13.0	1107.7	1119.7	1136.7						
G14.0	1104.7	1122.3	1135.2						
G15.0	1101.4	1120.4	1131.5						
G16.0	1094.6	1119.4	1133.4						
G17.0	1094.2	1115.0	1130.7						
G18.0	1078.7	1109.9	1123.4						
G19.0	1083.6	1104.8	1120.2						
G20.0	1081.5	1102.7	1115.5						
G21.0	1078.4	1096.1	1106.3						
G22.0	1070.7	1083.7	1096.8						
G23.0	1066.6	1077.3	1086.6						
G24.0	1058.1	1064.9	1072.7						
G25.0	1053.1	1058.5	1063.2						
G26.0	1043.8	1046.7	1047.2						
G27.0	1038.7	1029.5	1025.9						
G28.0	1030.6	1017.6	1006.5						
G29.0	1021.6	999.3	983.7						
G30.0	1011.0	979.0	958.2						
G31.0	1002.9	960.5	935.8						
G32.0	990.8	941.5	912.6						
G33.0	980.2	918.2	887.0						
G34.0	970.4	895.5	862.4						
G35.0	955.5	873.5	833.3						
G36.0	940.3	850.6	809.7						

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-1600

Distance: 8.567 m

Humidity:

Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	925.6	828.3	784.9						
G38.0	906.4	805.8	757.0						
G39.0	890.9	784.4	731.7						
G40.0	875.6	760.1	706.2						
G41.0	857.4	736.0	682.0						
G42.0	838.8	714.5	655.0						
G43.0	818.0	692.1	632.6						
G44.0	796.6	668.9	604.5						
G45.0	776.0	644.6	582.9						
G46.0	752.1	622.0	557.9						
G47.0	730.7	599.8	533.6						
G48.0	709.8	577.7	509.8						
G49.0	687.9	556.0	485.8						
G50.0	666.7	532.9	461.9						
G51.0	642.0	511.4	439.2						
G52.0	620.5	489.7	416.6						
G53.0	598.2	467.6	395.4						
G54.0	575.6	445.3	375.9						
G55.0	553.0	424.2	355.7						
G56.0	530.1	403.9	336.9						
G57.0	508.0	382.3	318.8						
G58.0	485.3	361.2	299.6						
G59.0	462.8	341.9	283.8						
G60.0	441.0	322.3	266.9						
G61.0	418.4	303.4	250.9						
G62.0	397.0	285.5	235.6						
G63.0	375.2	268.9	220.6						
G64.0	354.1	253.1	207.1						
G65.0	335.3	234.6	193.3						
G66.0	313.9	220.1	180.9						
G67.0	293.3	204.8	168.8						
G68.0	274.2	189.0	157.0						
G69.0	254.0	175.7	146.1						
G70.0	235.4	162.6	135.2						
G71.0	218.1	149.7	125.4						
G72.0	200.1	137.4	115.4						
G73.0	184.1	125.4	105.9						

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-1600
 Distance: 8.567 m
 Humidity:
 Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	166.9	113.8	96.8							
G75.0	150.6	103.4	88.4							
G76.0	134.6	92.9	80.4							
G77.0	119.9	84.7	71.9							
G78.0	106.2	75.0	64.0							
G79.0	93.0	64.7	55.8							
G80.0	80.4	55.7	46.6							
G81.0	68.2	47.1	37.4							
G82.0	57.2	38.6	28.9							
G83.0	47.0	30.0	19.7							
G84.0	37.5	20.0	11.0							
G85.0	27.1	11.5	3.8							
G86.0	18.4	3.6	0.3							
G87.0	7.8	0.3	0.0							
G88.0	0.6	1.1	0.0							
G89.0	0.0	0.7	0.0							
G90.0	0.0	0.0	0.0							
G91.0	0.0	0.4	0.0							
G92.0	0.0	0.6	0.0							
G93.0	0.0	0.8	0.0							
G94.0	0.0	0.5	0.0							
G95.0	0.0	0.7	0.0							
G96.0	0.0	0.7	0.0							
G97.0	0.0	0.5	0.0							
G98.0	0.0	0.8	0.0							
G99.0	0.0	0.6	0.0							
G100.0	0.0	0.9	0.0							
G101.0	0.0	0.0	0.0							
G102.0	0.0	0.0	0.0							
G103.0	0.0	1.0	0.0							
G104.0	0.0	1.0	0.0							
G105.0	0.0	1.1	0.0							
G106.0	0.0	0.9	0.0							
G107.0	0.0	1.0	0.0							
G108.0	0.0	0.0	0.0							
G109.0	0.1	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-1600
 Distance: 8.567 m
 Humidity:
 Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G111.0	0.3	1.7	0.0						
G112.0	0.4	0.0	0.0						
G113.0	0.2	0.1	0.1						
G114.0	0.6	0.2	0.0						
G115.0	0.7	0.2	0.2						
G116.0	0.8	0.3	0.0						
G117.0	0.8	0.6	0.3						
G118.0	0.9	1.6	0.3						
G119.0	1.0	2.1	0.2						
G120.0	1.1	2.3	1.4						
G121.0	1.2	2.5	5.2						
G122.0	1.2	3.0	7.4						
G123.0	1.4	3.4	8.1						
G124.0	3.0	3.5	8.2						
G125.0	3.1	3.6	8.2						
G126.0	3.2	3.8	8.0						
G127.0	3.1	3.8	7.9						
G128.0	3.3	3.9	7.7						
G129.0	3.2	3.8	7.6						
G130.0	3.4	3.8	7.2						
G131.0	3.5	3.9	7.2						
G132.0	3.6	3.8	7.0						
G133.0	3.3	3.7	6.6						
G134.0	3.5	3.6	6.5						
G135.0	3.8	3.5	6.2						
G136.0	3.9	3.4	6.0						
G137.0	3.9	3.4	5.6						
G138.0	3.9	3.2	5.5						
G139.0	4.1	3.1	5.1						
G140.0	4.0	3.1	4.8						
G141.0	4.0	3.0	4.6						
G142.0	4.1	2.8	4.2						
G143.0	4.3	2.9	4.1						
G144.0	4.3	2.8	3.9						
G145.0	4.6	2.6	3.7						
G146.0	4.4	2.8	3.5						
G147.0	4.6	2.9	3.2						

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 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	4.4	2.7	3.3							
G149.0	4.6	3.0	3.3							
G150.0	4.7	3.1	2.9							
G151.0	4.7	2.8	3.2							
G152.0	4.8	3.2	3.2							
G153.0	4.6	3.2	3.3							
G154.0	4.8	3.0	3.3							
G155.0	4.7	3.3	3.4							
G156.0	4.9	3.4	3.4							
G157.0	5.0	3.5	3.5							
G158.0	5.1	3.4	3.6							
G159.0	5.1	3.5	3.5							
G160.0	5.0	3.6	3.6							
G161.0	5.1	3.5	3.7							
G162.0	5.1	3.3	3.7							
G163.0	5.2	3.7	3.7							
G164.0	5.3	5.2	3.7							
G165.0	5.4	5.1	3.8							
G166.0	5.4	3.8	3.8							
G167.0	5.2	5.4	3.5							
G168.0	5.5	5.5	3.9							
G169.0	5.5	5.4	3.9							
G170.0	5.3	5.3	3.8							
G171.0	5.6	5.5	3.9							
G172.0	5.6	4.0	4.0							
G173.0	5.6	3.7	4.0							
G174.0	5.4	4.9	4.1							
G175.0	5.6	5.6	4.1							
G176.0	5.7	5.7	4.0							
G177.0	5.5	5.6	3.8							
G178.0	5.7	6.0	4.1							
G179.0	5.5	5.6	4.2							
G180.0	5.6	5.6	4.1							

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: