

Report No.: 1072 MB

Test Time: 2024/9/14 17:20

## Luminaire Property

Luminaire Manufacturer: BBT LIGHTING  
 Luminaire Category: OUTDOOR LAMP  
 Luminaire Description: VITTORIA 330100

Voltage: 220.3 V  
 Power: 59.53 W

Current: 0.278 A  
 Power Factor: 0.973

## Photometric Results

CIE Class: Semi-Direct  
 Measurement Flux: 5715 lm  
 Downward Ratio: 83%  
 Horizontal Diffuse Angle(50%): H29  
 Vertical Diffuse Angle(50%): V29.2  
 Luminaire Efficacy Rating (LER): 96.05  
 Max. Intensity: 3857.26 cd  
 S/MH(C0/C180): 0.50

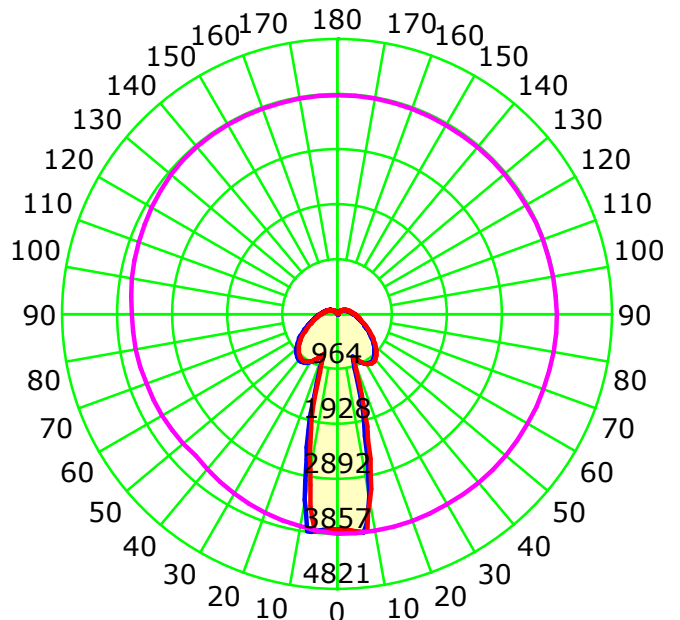
Total Rated Lamp Lumens: 5715.0 lm  
 Efficiency: 100%  
 Upward Ratio: 17%

C0r0 Intensity: 3772.59 cd  
 Pos of Max. Intensity: H45 V7  
 S/MH(C90/C270): 0.50

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

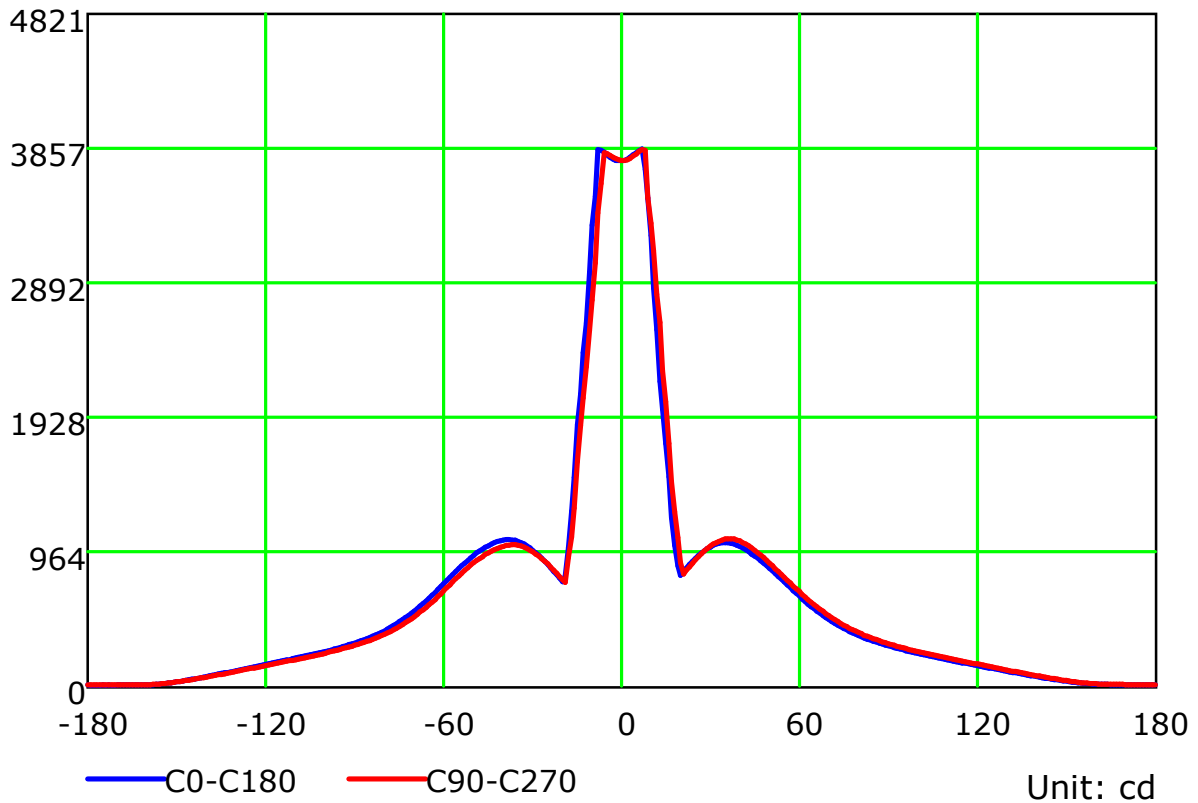
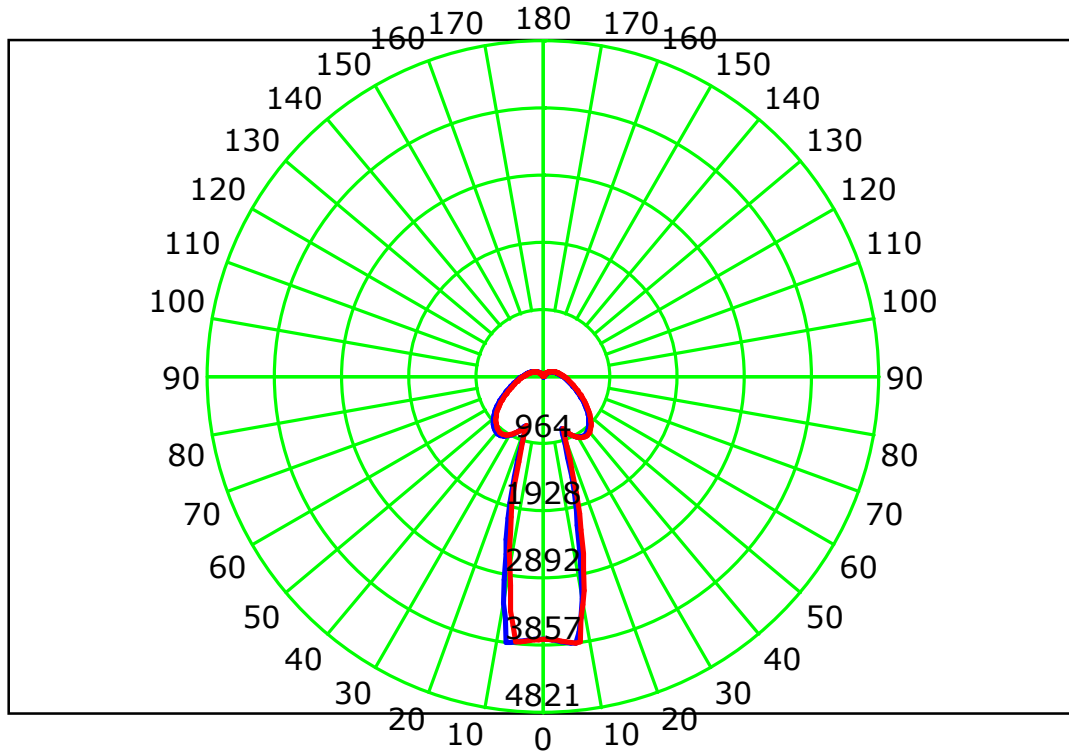
Average Diffuse Angle(50%): 29.1°

— C0-C180 — C90-C270 — G7

C Plane (°):0.0-360.0: 45.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Carlos

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

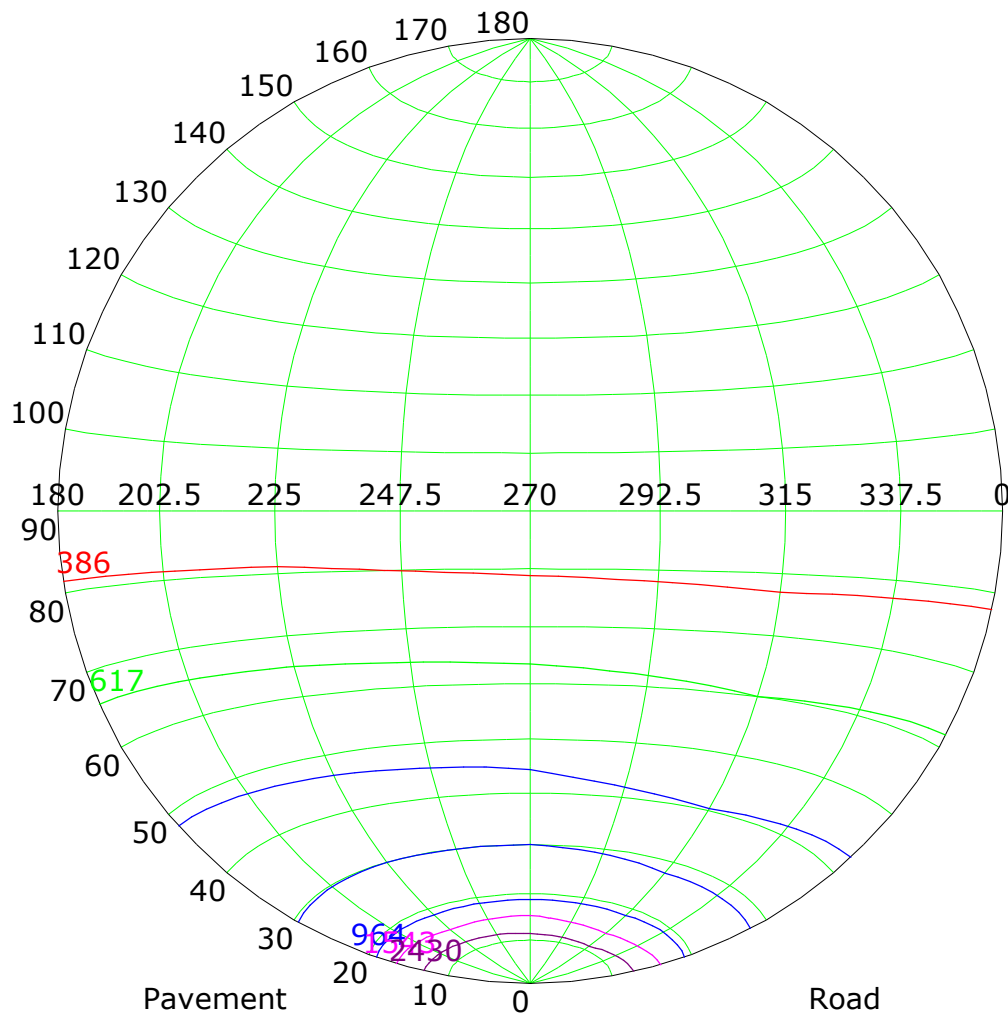
## Luminous Intensity Distribution Curve



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## Isocandela (sphere)



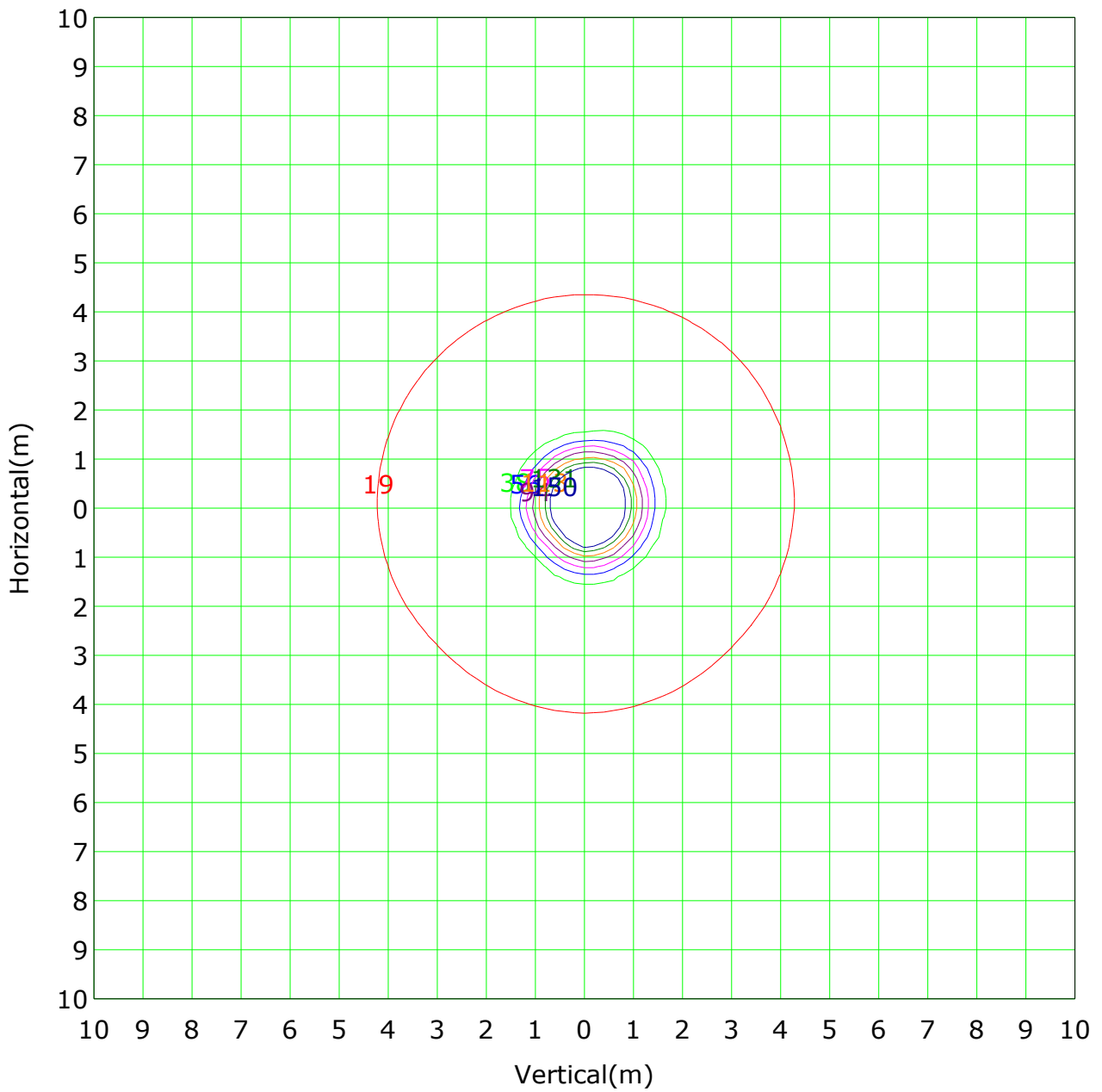
Imax (100%): 3857 cd

- |                   |                   |
|-------------------|-------------------|
| — ( 10%): 386 cd  | — ( 16%): 617 cd  |
| — ( 25%): 964 cd  | — ( 40%): 1543 cd |
| — ( 63%): 2430 cd | — (100%): 3857 cd |

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## IsoLux Plot



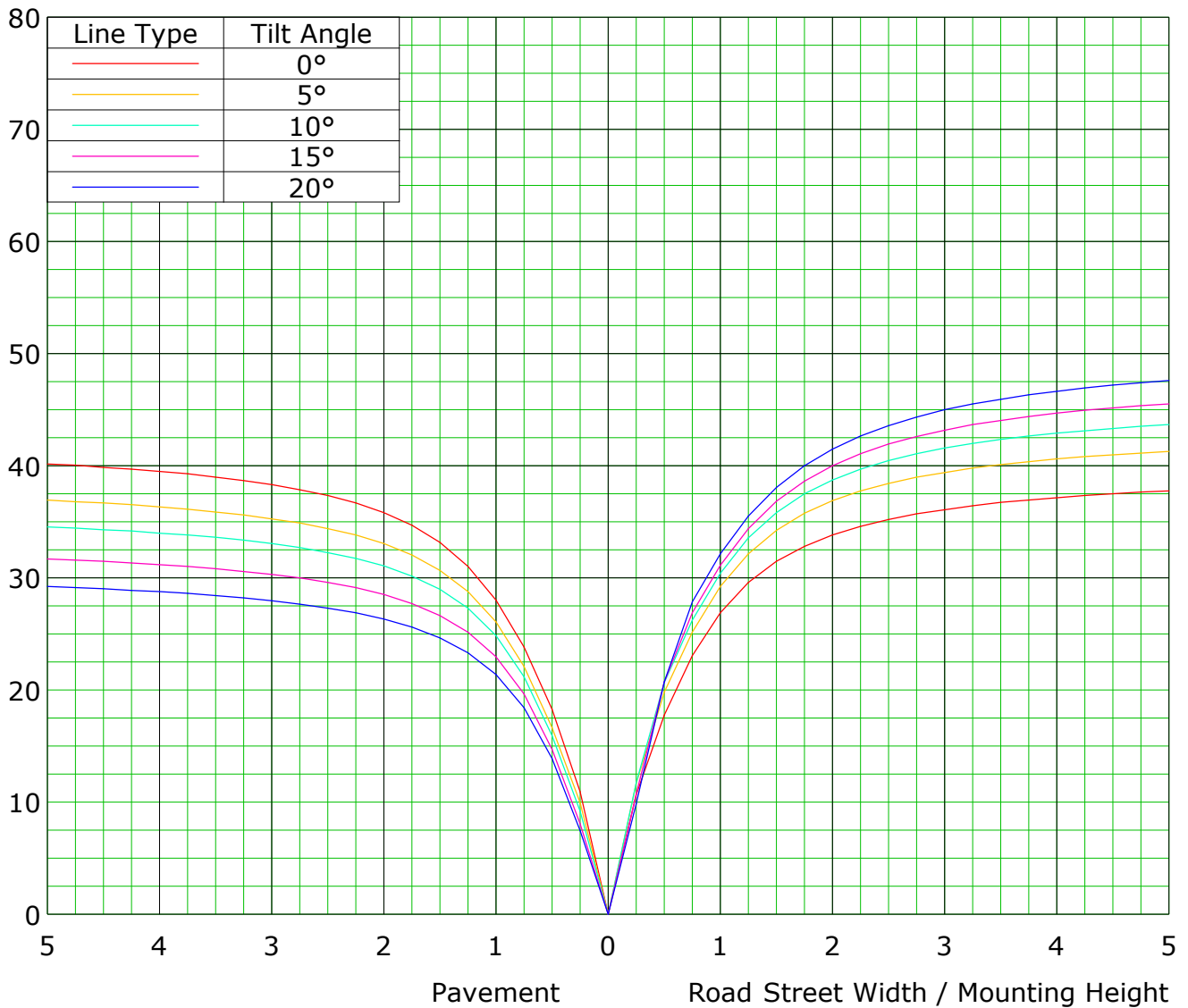
Mounting Height: 4.5m		Max Lux(100%): 187.6 lx	
— ( 10%): 18.8 lx	— ( 20%): 37.5 lx	— ( 30%): 56.3 lx	— ( 40%): 75.0 lx
— ( 50%): 93.8 lx	— ( 60%): 112.5 lx	— ( 70%): 131.3 lx	— ( 80%): 150.1 lx

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## Roadway CU Curve

Efficiency(%)



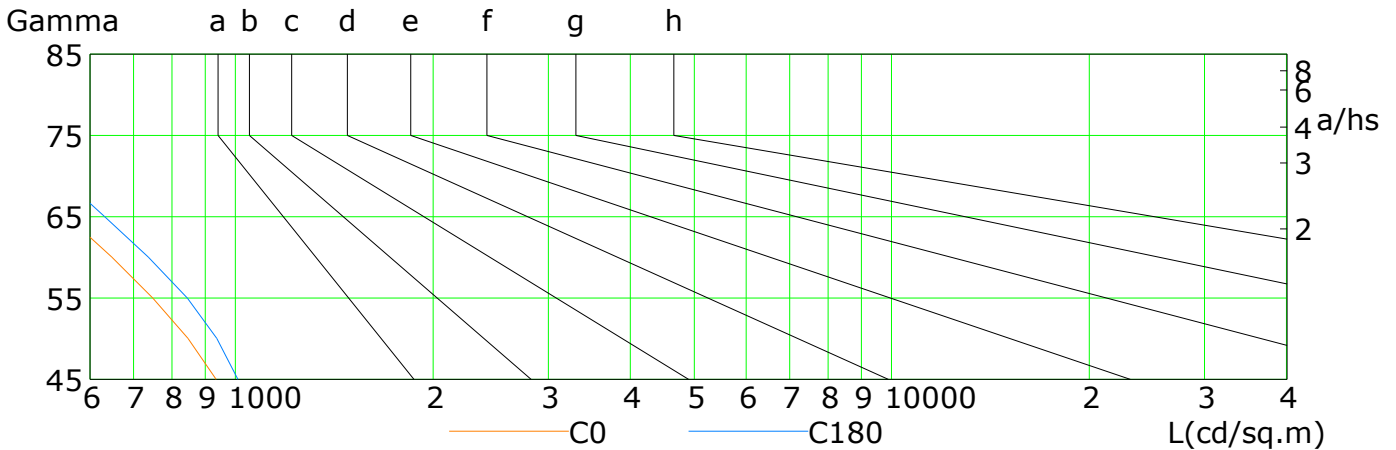
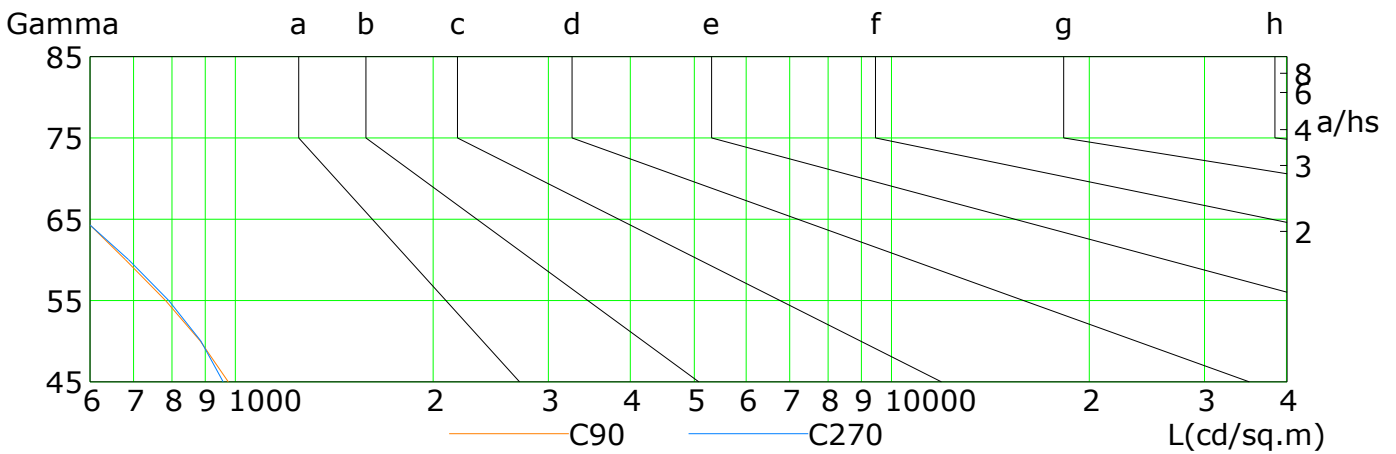
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### Lum Limit Curve

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

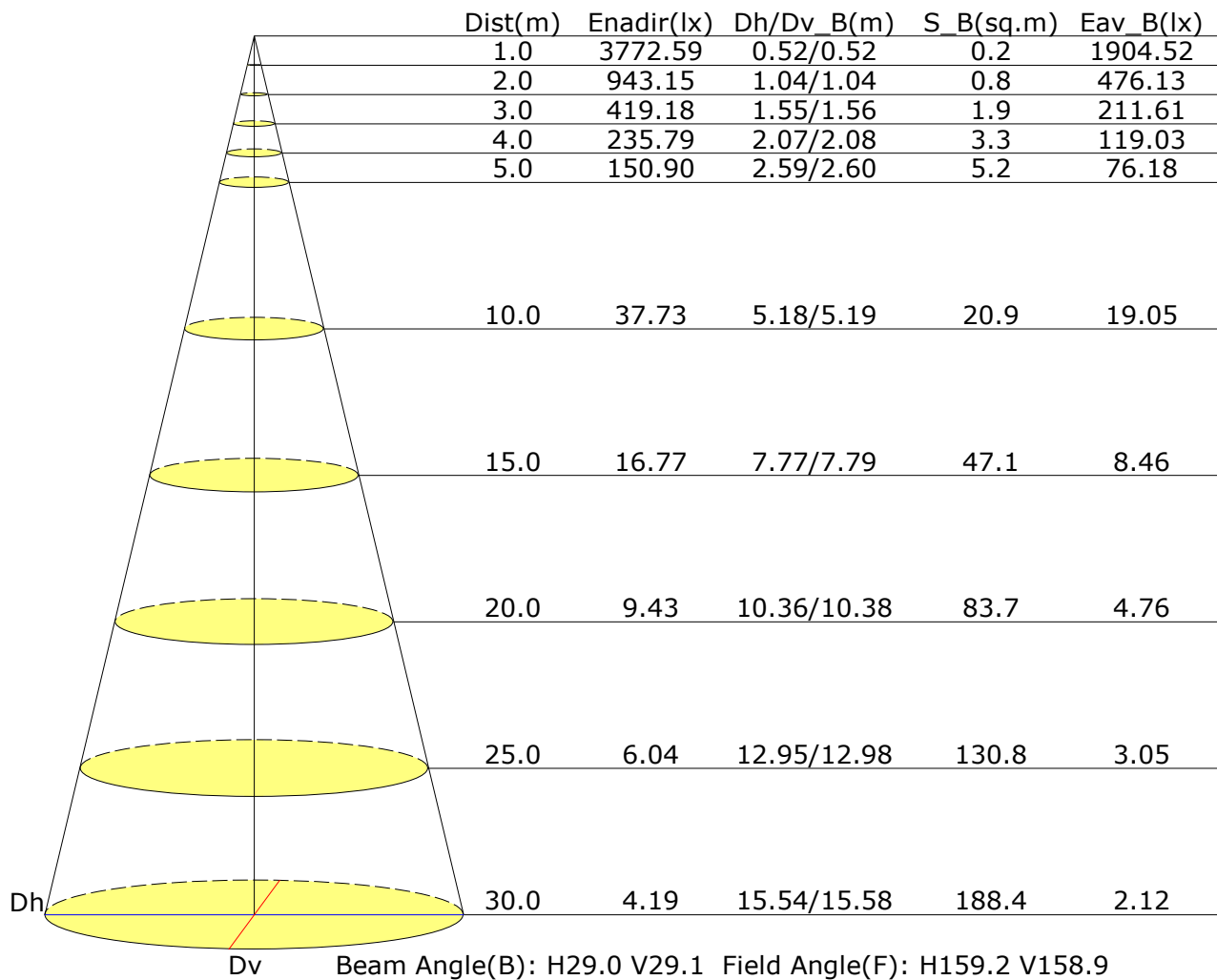


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	934	847	749	648	556	480	416	364	324
C90	975	884	783	680	587	507	440	386	343
C180	1010	938	845	737	632	541	464	399	352
C270	958	886	792	688	587	499	430	373	331

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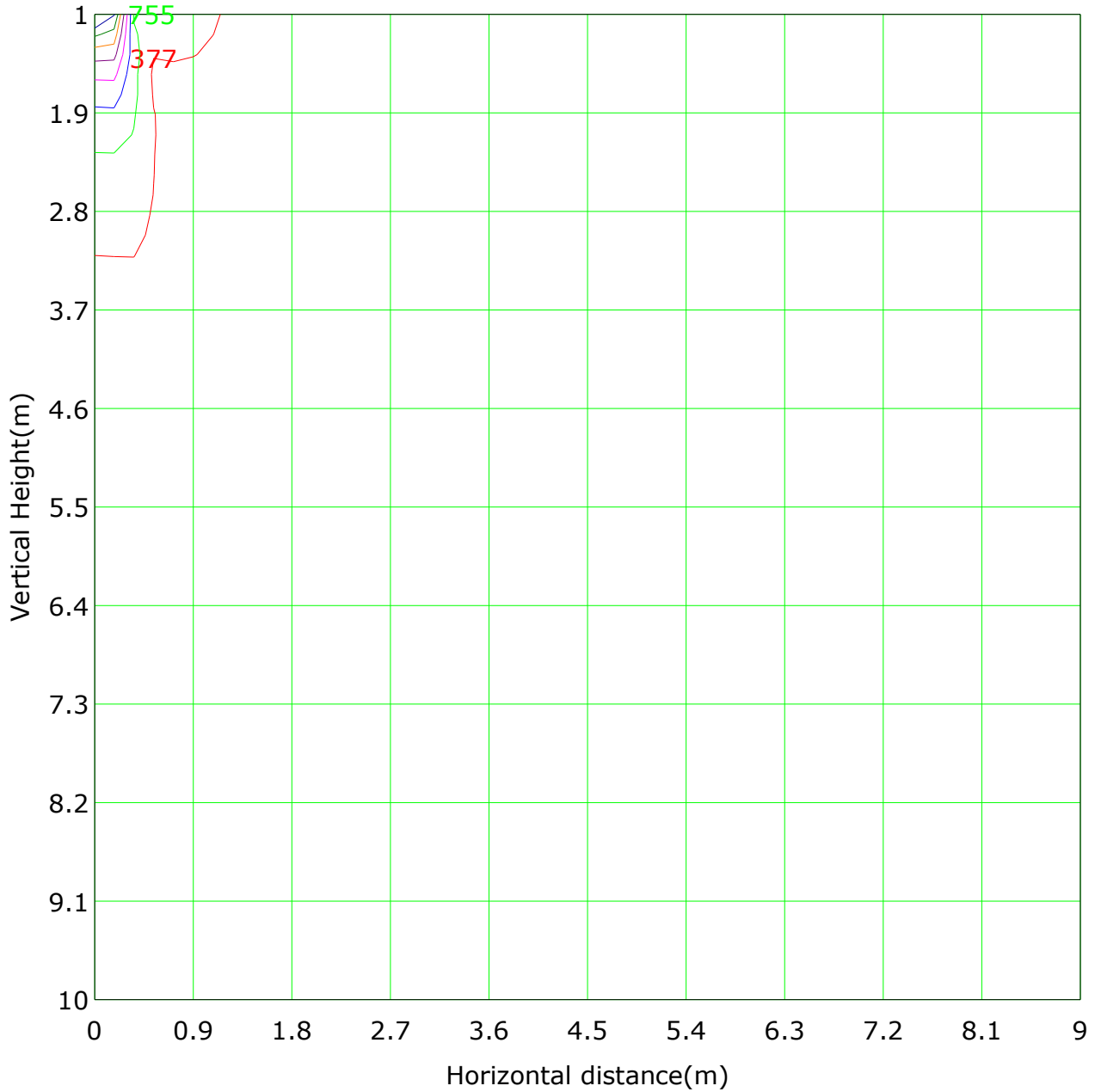
## Illuminance at a Distance



C Plane (°):0.0-360.0: 45.0  
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## Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 3772.6 lx
— ( 10%): 377.3 lx	— ( 20%): 754.5 lx	
— ( 30%): 1131.8 lx	— ( 40%): 1509.0 lx	
— ( 50%): 1886.3 lx	— ( 60%): 2263.6 lx	
— ( 70%): 2640.8 lx	— ( 80%): 3018.1 lx	

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## Area Flux Table

Unit: lm

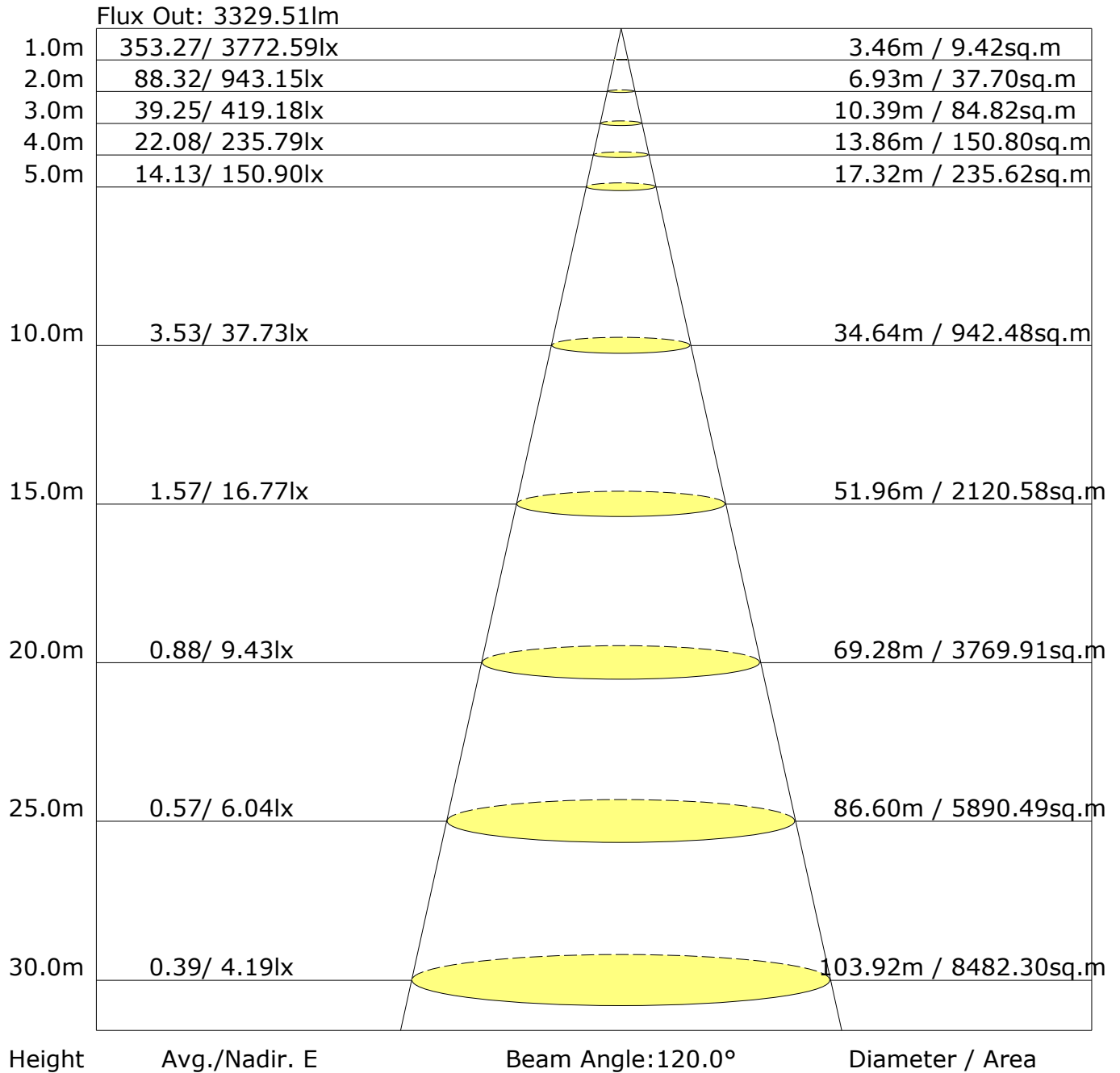
		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(E)	Flux(T)	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	Flux(E)	Flux(T)
0.9	16.5	2.5	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.7	3.7	3.7	3.6	3.4	3.3	3.1	2.9	2.7	2.6	2.4	38.0	57.7
96.4	114.8	4.2	4.7	5.2	5.8	6.4	7.0	7.6	8.0	8.2	8.2	8.0	7.6	7.1	6.5	5.9	5.3	4.8	4.3	4.0	172.1	189.9
255.9	273.4	7.3	8.7	10.5	12.9	15.6	18.0	19.8	20.9	21.5	21.6	20.9	20.6	20.1	18.3	17.3	16.0	15.9	15.9	15.3	325.5	344.0
360.8	379.9	9.3	11.8	15.5	20.3	24.8	27.7	28.0	26.1	24.3	24.4	26.0	27.6	28.7	25.4	20.6	17.4	12.2	10.8	9.7	843.4	945.4
434.7	454.9	9.9	12.7	17.1	22.7	27.6	29.9	27.7	26.0	24.3	24.4	26.0	27.6	28.3	28.3	23.8	18.0	13.2	10.3	9.7	759.9	962.0
580.6	602.8	10.1	13.2	17.9	23.9	28.9	30.5	26.8	43.7	103.4	110.3	40.9	28.9	27.7	29.0	23.4	17.7	13.5	10.5	10.4	3580.6	433.5
641.0	665.0	9.6	12.2	16.3	21.5	26.4	29.3	27.2	26.0	25.5	25.3	26.0	26.4	27.8	26.7	21.6	16.6	12.7	10.0	10.0	7341.8	843.5
734.1	765.0	8.9	11.1	14.3	18.4	22.7	26.0	27.7	27.0	25.5	25.3	27.0	22.7	27.8	23.0	18.7	14.7	11.6	10.4	9.3	8293.5	931.7
829.3	851.7	7.9	9.5	11.8	14.7	18.0	21.2	23.7	25.0	25.4	25.4	25.0	18.0	23.9	18.4	15.3	12.4	10.1	8.4	8.4	5220.2	6244.9
93.3	96.5	6.7	7.8	9.3	11.3	13.5	15.7	17.7	19.1	19.9	19.9	19.1	13.5	17.9	13.8	11.7	9.9	8.3	7.1	7.1	2143.3	244.9
143.3	143.3	5.3	6.1	7.0	8.0	9.2	10.5	11.6	12.5	13.0	13.0	12.5	9.2	10.5	9.5	8.3	7.3	6.4	5.6	5.6	76.9	168.3
214.3	214.3	3.9	4.3	4.7	5.2	5.7	6.2	6.7	7.0	7.2	7.2	7.0	5.7	6.2	5.8	5.3	4.8	4.4	4.0	4.0	76.9	102.5
221.1	221.1	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.3	3.3	3.3	3.3	2.9	3.1	3.0	2.8	2.7	2.5	2.4	2.4	22.1	52.4
0.0	0.0	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.0	15.3
437.3	475.4	114.0	138.8	175.2	221.7	266.4	296.3	299.9	331.0	484.6	511.8	331.0	266.4	221.7	225.3	225.3	179.9	144.3	118.9	118.9	437.3	475.4
0.0	0.0	0.0	86.4	161.1	214.6	426.1	329.3	297.3	328.7	648.5	850.9	328.7	426.1	214.6	161.1	86.4	0.0	0.0	0.0	0.0	0.0	0.0

Horizontal plane

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## The Average Illuminance Effective Figure



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## 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  $5715lm$  ( $8\log(F/F_0) = 6.1$ ).

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## 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	3773.4	3.6	3.6	0.06	0.06
1.0-2.0	3777.3	10.8	14.5	0.19	0.25
2.0-3.0	3785.5	18.1	32.6	0.32	0.57
3.0-4.0	3797.5	25.4	58.0	0.44	1.01
4.0-5.0	3811.4	32.8	90.8	0.57	1.59
5.0-6.0	3811.7	40.1	130.8	0.70	2.29
6.0-7.0	3789.3	47.0	177.9	0.82	3.11
7.0-8.0	3712.0	53.1	231.0	0.93	4.04
8.0-9.0	3537.8	57.3	288.4	1.00	5.05
9.0-10.0	3292.1	59.6	347.9	1.04	6.09
10.0-11.0	3020.1	60.4	408.3	1.06	7.14
11.0-12.0	2736.2	59.8	468.1	1.05	8.19
12.0-13.0	2442.6	58.0	526.1	1.01	9.21
13.0-14.0	2160.0	55.3	581.4	0.97	10.17
14.0-15.0	1905.1	52.3	633.7	0.92	11.09
15.0-16.0	1643.0	48.1	681.8	0.84	11.93
16.0-17.0	1385.5	43.2	725.0	0.76	12.69
17.0-18.0	1173.7	38.7	763.7	0.68	13.36
18.0-19.0	998.9	34.8	798.5	0.61	13.97
19.0-20.0	878.3	32.1	830.6	0.56	14.53
20.0-21.0	830.2	31.9	862.5	0.56	15.09
21.0-22.0	823.4	33.1	895.6	0.58	15.67
22.0-23.0	835.1	35.0	930.6	0.61	16.28
23.0-24.0	858.8	37.6	968.2	0.66	16.94
24.0-25.0	882.1	40.1	1008.3	0.70	17.64
25.0-26.0	903.8	42.7	1051.0	0.75	18.39
26.0-27.0	924.1	45.2	1096.2	0.79	19.18
27.0-28.0	943.2	47.8	1143.9	0.84	20.02
28.0-29.0	960.6	50.3	1194.2	0.88	20.90
29.0-30.0	976.3	52.7	1246.9	0.92	21.82
30.0-31.0	990.6	55.1	1302.1	0.96	22.78
31.0-32.0	1003.1	57.5	1359.5	1.01	23.79
32.0-33.0	1013.5	59.7	1419.3	1.04	24.83
33.0-34.0	1021.8	61.8	1481.1	1.08	25.92
34.0-35.0	1028.1	63.9	1545.0	1.12	27.03
35.0-36.0	1031.8	65.7	1610.7	1.15	28.18

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 Inspector:

### Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1033.2	67.4	1678.1	1.18	29.36
37.0-38.0	1032.0	68.9	1747.0	1.21	30.57
38.0-39.0	1028.3	70.2	1817.2	1.23	31.80
39.0-40.0	1022.5	71.3	1888.5	1.25	33.04
40.0-41.0	1014.7	72.3	1960.7	1.26	34.31
41.0-42.0	1005.0	73.0	2033.8	1.28	35.59
42.0-43.0	994.0	73.6	2107.4	1.29	36.88
43.0-44.0	981.8	74.1	2181.5	1.30	38.17
44.0-45.0	968.4	74.4	2256.0	1.30	39.47
45.0-46.0	954.0	74.6	2330.6	1.31	40.78
46.0-47.0	938.8	74.7	2405.2	1.31	42.09
47.0-48.0	922.8	74.6	2479.9	1.31	43.39
48.0-49.0	906.0	74.4	2554.3	1.30	44.69
49.0-50.0	888.6	74.1	2628.4	1.30	45.99
50.0-51.0	870.8	73.7	2702.0	1.29	47.28
51.0-52.0	852.4	73.2	2775.2	1.28	48.56
52.0-53.0	833.2	72.5	2847.7	1.27	49.83
53.0-54.0	813.7	71.7	2919.4	1.26	51.08
54.0-55.0	794.2	70.9	2990.3	1.24	52.32
55.0-56.0	774.4	70.0	3060.3	1.22	53.55
56.0-57.0	754.2	69.0	3129.3	1.21	54.76
57.0-58.0	734.2	67.9	3197.2	1.19	55.94
58.0-59.0	714.1	66.8	3263.9	1.17	57.11
59.0-60.0	693.9	65.6	3329.5	1.15	58.26
60.0-61.0	674.1	64.3	3393.9	1.13	59.39
61.0-62.0	654.7	63.1	3456.9	1.10	60.49
62.0-63.0	635.4	61.8	3518.8	1.08	61.57
63.0-64.0	616.5	60.5	3579.3	1.06	62.63
64.0-65.0	598.3	59.2	3638.5	1.04	63.67
65.0-66.0	580.8	58.0	3696.4	1.01	64.68
66.0-67.0	563.4	56.7	3753.1	0.99	65.67
67.0-68.0	546.6	55.4	3808.5	0.97	66.64
68.0-69.0	530.8	54.2	3862.6	0.95	67.59
69.0-70.0	515.0	52.9	3915.5	0.93	68.51
70.0-71.0	499.8	51.7	3967.2	0.90	69.42
71.0-72.0	485.6	50.5	4017.7	0.88	70.30

C Plane (°):0.0-360.0: 45.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Carlos

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 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	471.8	49.3	4067.0	0.86	71.16
73.0-74.0	458.3	48.2	4115.2	0.84	72.01
74.0-75.0	445.6	47.1	4162.3	0.82	72.83
75.0-76.0	433.4	46.0	4208.3	0.81	73.64
76.0-77.0	421.5	44.9	4253.2	0.79	74.42
77.0-78.0	410.2	43.9	4297.2	0.77	75.19
78.0-79.0	399.2	42.9	4340.1	0.75	75.94
79.0-80.0	388.5	41.9	4382.0	0.73	76.68
80.0-81.0	378.7	41.0	4422.9	0.72	77.39
81.0-82.0	369.5	40.1	4463.0	0.70	78.09
82.0-83.0	360.7	39.2	4502.2	0.69	78.78
83.0-84.0	352.6	38.4	4540.6	0.67	79.45
84.0-85.0	344.8	37.6	4578.3	0.66	80.11
85.0-86.0	337.1	36.9	4615.1	0.64	80.75
86.0-87.0	329.7	36.1	4651.2	0.63	81.39
87.0-88.0	322.6	35.3	4686.5	0.62	82.00
88.0-89.0	315.5	34.6	4721.1	0.61	82.61
89.0-90.0	308.7	33.9	4755.0	0.59	83.20
90.0-91.0	302.1	33.1	4788.1	0.58	83.78
91.0-92.0	295.8	32.4	4820.5	0.57	84.35
92.0-93.0	289.6	31.7	4852.3	0.56	84.90
93.0-94.0	283.5	31.0	4883.3	0.54	85.45
94.0-95.0	277.6	30.3	4913.6	0.53	85.98
95.0-96.0	271.9	29.7	4943.3	0.52	86.50
96.0-97.0	266.5	29.0	4972.3	0.51	87.01
97.0-98.0	260.8	28.4	5000.7	0.50	87.50
98.0-99.0	255.4	27.7	5028.4	0.48	87.99
99.0-100.0	250.2	27.1	5055.5	0.47	88.46
100.0-101.0	245.1	26.4	5081.9	0.46	88.92
101.0-102.0	240.0	25.8	5107.7	0.45	89.37
102.0-103.0	235.2	25.2	5132.9	0.44	89.81
103.0-104.0	230.4	24.6	5157.4	0.43	90.24
104.0-105.0	225.4	23.9	5181.4	0.42	90.66
105.0-106.0	220.7	23.3	5204.7	0.41	91.07
106.0-107.0	216.1	22.7	5227.4	0.40	91.47
107.0-108.0	211.5	22.1	5249.5	0.39	91.86

C Plane (°):0.0-360.0: 45.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Carlos

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

### Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	207.0	21.5	5271.1	0.38	92.23
109.0-110.0	202.5	20.9	5292.0	0.37	92.60
110.0-111.0	198.2	20.4	5312.4	0.36	92.96
111.0-112.0	193.8	19.8	5332.1	0.35	93.30
112.0-113.0	189.4	19.2	5351.3	0.34	93.64
113.0-114.0	185.0	18.6	5369.9	0.33	93.96
114.0-115.0	180.7	18.0	5388.0	0.32	94.28
115.0-116.0	176.5	17.5	5405.4	0.31	94.58
116.0-117.0	172.3	16.9	5422.3	0.30	94.88
117.0-118.0	168.0	16.3	5438.7	0.29	95.17
118.0-119.0	163.6	15.8	5454.5	0.28	95.44
119.0-120.0	159.4	15.2	5469.7	0.27	95.71
120.0-121.0	155.1	14.7	5484.3	0.26	95.96
121.0-122.0	150.7	14.1	5498.4	0.25	96.21
122.0-123.0	146.4	13.5	5511.9	0.24	96.45
123.0-124.0	142.0	13.0	5524.9	0.23	96.67
124.0-125.0	137.5	12.4	5537.4	0.22	96.89
125.0-126.0	133.2	11.9	5549.2	0.21	97.10
126.0-127.0	128.8	11.4	5560.6	0.20	97.30
127.0-128.0	124.5	10.8	5571.4	0.19	97.49
128.0-129.0	120.3	10.3	5581.8	0.18	97.67
129.0-130.0	116.1	9.8	5591.6	0.17	97.84
130.0-131.0	111.8	9.3	5600.9	0.16	98.00
131.0-132.0	107.5	8.8	5609.7	0.15	98.16
132.0-133.0	103.4	8.4	5618.1	0.15	98.31
133.0-134.0	99.3	7.9	5626.0	0.14	98.44
134.0-135.0	95.2	7.4	5633.4	0.13	98.57
135.0-136.0	91.2	7.0	5640.5	0.12	98.70
136.0-137.0	87.0	6.6	5647.0	0.11	98.81
137.0-138.0	82.8	6.1	5653.1	0.11	98.92
138.0-139.0	78.7	5.7	5658.9	0.10	99.02
139.0-140.0	74.8	5.3	5664.2	0.09	99.11
140.0-141.0	70.9	4.9	5669.1	0.09	99.20
141.0-142.0	66.9	4.6	5673.7	0.08	99.28
142.0-143.0	63.1	4.2	5677.9	0.07	99.35
143.0-144.0	59.2	3.9	5681.8	0.07	99.42

C Plane (°):0.0-360.0: 45.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Carlos

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 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	55.4	3.5	5685.3	0.06	99.48
145.0-146.0	51.8	3.2	5688.5	0.06	99.54
146.0-147.0	48.2	2.9	5691.4	0.05	99.59
147.0-148.0	44.7	2.6	5694.1	0.05	99.63
148.0-149.0	41.4	2.4	5696.4	0.04	99.68
149.0-150.0	38.2	2.1	5698.6	0.04	99.71
150.0-151.0	35.2	1.9	5700.5	0.03	99.75
151.0-152.0	32.2	1.7	5702.2	0.03	99.78
152.0-153.0	29.4	1.5	5703.6	0.03	99.80
153.0-154.0	26.8	1.3	5705.0	0.02	99.83
154.0-155.0	24.4	1.1	5706.1	0.02	99.85
155.0-156.0	22.2	1.0	5707.1	0.02	99.86
156.0-157.0	20.2	0.9	5708.0	0.02	99.88
157.0-158.0	18.4	0.8	5708.8	0.01	99.89
158.0-159.0	16.8	0.7	5709.4	0.01	99.90
159.0-160.0	15.6	0.6	5710.0	0.01	99.91
160.0-161.0	14.7	0.5	5710.6	0.01	99.92
161.0-162.0	14.0	0.5	5711.1	0.01	99.93
162.0-163.0	13.5	0.4	5711.5	0.01	99.94
163.0-164.0	13.1	0.4	5711.9	0.01	99.95
164.0-165.0	12.9	0.4	5712.3	0.01	99.95
165.0-166.0	12.8	0.4	5712.7	0.01	99.96
166.0-167.0	12.7	0.3	5713.0	0.01	99.97
167.0-168.0	12.7	0.3	5713.3	0.01	99.97
168.0-169.0	12.7	0.3	5713.6	0.00	99.98
169.0-170.0	12.5	0.3	5713.8	0.00	99.98
170.0-171.0	12.4	0.2	5714.0	0.00	99.98
171.0-172.0	12.2	0.2	5714.2	0.00	99.99
172.0-173.0	12.0	0.2	5714.4	0.00	99.99
173.0-174.0	11.9	0.1	5714.6	0.00	99.99
174.0-175.0	11.8	0.1	5714.7	0.00	100.00
175.0-176.0	11.6	0.1	5714.8	0.00	100.00
176.0-177.0	11.5	0.1	5714.9	0.00	100.00
177.0-178.0	11.4	0.1	5714.9	0.00	100.00
178.0-179.0	11.3	0.0	5714.9	0.00	100.00
179.0-180.0	11.4	0.0	5715.0	0.00	100.00

C Plane (°):0.0-360.0: 45.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Carlos

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:



## Zonal Lumen (Continue 5)

cone flux(90°): 2255.96 lm

%lum = 39.5%

%lamp = 39.5%

cone flux(120°): 3329.51 lm

%lum = 58.3%

%lamp = 58.3%

## Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	3772.6	3772.6	3772.6	3772.6	3772.6	3772.6	3772.6	3772.6	3772.6	
G1.0	3774.4	3775.3	3773.4	3768.4	3772.2	3772.6	3775.7	3782.1	3774.4	
G2.0	3780.5	3781.9	3777.7	3768.1	3774.3	3776.6	3784.5	3798.3	3780.5	
G3.0	3794.0	3793.3	3788.2	3770.1	3781.1	3788.1	3796.6	3813.8	3794.0	
G4.0	3812.8	3809.6	3802.9	3776.0	3794.8	3801.5	3811.0	3825.3	3812.8	
G5.0	3829.0	3826.9	3820.3	3787.7	3812.8	3815.4	3820.7	3835.5	3829.0	
G6.0	3843.4	3843.9	3837.2	3803.5	3830.4	3826.0	3829.3	3625.5	3843.4	
G7.0	3853.9	3857.3	3850.5	3823.5	3843.7	3835.0	3605.9	3519.7	3853.9	
G8.0	3709.1	3748.7	3844.6	3838.7	3849.1	3585.3	3397.3	3229.6	3709.1	
G9.0	3502.5	3616.7	3506.0	3852.2	3515.3	3372.8	3037.6	2998.5	3502.5	
G10.0	3237.3	3315.2	3321.7	3619.3	3308.1	3021.1	2771.5	2677.4	3237.3	
G11.0	2856.9	2955.8	3125.5	3410.9	2970.9	2812.2	2556.2	2361.0	2856.9	
G12.0	2560.1	2734.2	2812.3	3071.8	2605.6	2507.1	2294.6	2144.6	2560.1	
G13.0	2187.0	2332.9	2610.8	2803.3	2395.3	2166.3	2068.9	1787.0	2187.0	
G14.0	1991.6	2014.1	2266.6	2570.3	2097.2	1897.6	1870.4	1501.0	1991.6	
G15.0	1744.8	1886.4	2040.1	2227.4	1876.4	1563.5	1615.4	1319.5	1744.8	
G16.0	1502.7	1605.7	1741.3	1947.0	1499.8	1322.8	1279.5	1115.9	1502.7	
G17.0	1210.8	1305.5	1467.2	1754.9	1257.3	1155.7	1071.9	929.8	1210.8	
G18.0	1011.2	1139.0	1251.7	1553.1	995.3	978.5	923.5	772.9	1011.2	
G19.0	867.8	957.3	1065.4	1255.2	790.9	880.0	745.0	795.1	867.8	
G20.0	798.4	791.7	886.6	1133.5	752.6	750.3	765.2	817.5	798.4	
G21.0	825.0	813.9	805.4	964.4	776.4	772.4	787.2	843.2	825.0	
G22.0	849.0	838.4	832.2	794.8	801.1	795.7	810.3	865.4	849.0	
G23.0	872.6	860.9	857.4	818.4	825.9	820.0	833.3	886.2	872.6	
G24.0	897.4	882.7	882.7	843.1	852.1	845.5	857.0	906.1	897.4	
G25.0	918.1	904.7	906.5	871.1	875.0	868.2	877.7	926.0	918.1	
G26.0	937.1	922.8	931.0	895.7	897.3	889.7	897.5	943.0	937.1	
G27.0	956.5	940.8	952.2	919.1	920.2	909.7	915.9	957.5	956.5	
G28.0	972.8	956.2	971.4	941.7	939.9	930.6	934.3	972.3	972.8	
G29.0	987.5	970.4	989.8	962.7	958.1	948.3	949.9	984.0	987.5	
G30.0	1000.0	983.5	1005.9	982.0	975.5	964.7	964.6	994.3	1000.0	
G31.0	1011.6	993.5	1021.0	1000.8	992.8	979.1	977.4	1002.5	1011.6	
G32.0	1020.3	1002.3	1032.9	1015.9	1006.8	994.5	989.8	1008.4	1020.3	
G33.0	1026.6	1008.5	1042.4	1029.7	1019.7	1006.5	999.4	1012.0	1026.6	
G34.0	1031.5	1012.5	1051.1	1042.6	1030.3	1016.2	1007.1	1013.4	1031.5	
G35.0	1033.2	1014.5	1056.4	1052.5	1039.7	1024.0	1012.2	1011.9	1033.2	
G36.0	1032.2	1013.5	1059.3	1060.4	1047.2	1029.6	1015.7	1007.5	1032.2	

C Plane (°):0.0-360.0: 45.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Carlos

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	1028.2	1009.9	1059.4	1066.5	1051.4	1033.1	1016.6	1000.9	1028.2	
G38.0	1022.2	1003.6	1056.7	1069.6	1053.7	1034.0	1014.7	991.5	1022.2	
G39.0	1014.0	993.8	1051.0	1069.9	1053.7	1032.3	1011.0	981.5	1014.0	
G40.0	1003.1	983.7	1043.1	1067.8	1051.0	1028.7	1005.0	970.2	1003.1	
G41.0	991.9	971.5	1032.1	1062.5	1046.3	1023.3	998.4	956.2	991.9	
G42.0	979.2	956.7	1020.2	1055.0	1039.4	1015.9	990.1	942.0	979.2	
G43.0	965.6	942.3	1006.9	1045.2	1030.7	1006.3	980.8	928.1	965.6	
G44.0	949.8	927.4	992.3	1034.7	1020.8	996.2	969.4	913.0	949.8	
G45.0	934.4	911.7	975.4	1020.8	1010.1	984.8	958.2	895.1	934.4	
G46.0	919.0	893.4	958.8	1007.4	998.2	971.5	946.2	878.5	919.0	
G47.0	901.9	876.2	941.4	992.6	983.8	958.3	931.8	861.6	901.9	
G48.0	882.8	858.9	923.7	976.9	970.0	944.3	917.9	842.7	882.8	
G49.0	865.0	840.0	903.2	959.2	955.2	928.1	903.3	824.8	865.0	
G50.0	846.7	822.0	884.0	942.0	937.5	912.5	886.3	807.0	846.7	
G51.0	828.3	803.9	864.2	924.3	920.9	895.7	869.8	787.0	828.3	
G52.0	808.9	785.8	844.6	906.1	903.4	876.5	850.8	768.4	808.9	
G53.0	787.9	766.3	822.6	885.2	883.2	859.5	832.5	750.0	787.9	
G54.0	768.5	748.2	802.8	866.1	864.3	841.3	811.3	729.0	768.5	
G55.0	748.5	730.2	782.6	846.5	845.0	820.6	792.2	710.3	748.5	
G56.0	727.1	712.4	760.7	825.1	823.0	801.4	772.2	691.9	727.1	
G57.0	707.6	693.0	740.7	805.3	802.2	781.4	751.3	671.9	707.6	
G58.0	688.3	675.8	720.8	784.9	781.4	759.4	729.1	653.6	688.3	
G59.0	666.8	658.5	699.2	764.6	760.3	738.8	708.2	635.7	666.8	
G60.0	647.6	640.1	680.0	742.3	737.2	718.3	687.6	618.1	647.6	
G61.0	628.2	623.8	660.9	721.9	716.4	698.4	665.4	599.7	628.2	
G62.0	609.9	607.5	642.3	701.6	693.8	676.5	645.6	583.8	609.9	
G63.0	590.4	590.3	622.0	681.8	673.8	656.8	624.1	566.1	590.4	
G64.0	573.0	574.7	604.2	660.1	653.4	637.3	605.1	550.1	573.0	
G65.0	556.0	559.9	587.0	640.7	632.2	616.6	586.8	535.2	556.0	
G66.0	539.7	545.5	570.3	621.9	613.1	598.0	568.7	521.0	539.7	
G67.0	523.7	530.4	552.7	602.0	594.5	578.1	549.3	505.4	523.7	
G68.0	508.8	516.4	537.5	584.3	576.6	561.0	532.8	491.5	508.8	
G69.0	494.6	503.3	521.0	567.4	557.5	544.4	516.5	478.5	494.6	
G70.0	479.6	489.5	506.6	549.3	540.8	528.1	499.4	464.0	479.6	
G71.0	465.9	476.8	492.4	533.5	524.4	510.6	484.5	451.4	465.9	
G72.0	453.0	464.8	479.1	518.6	508.8	496.2	470.4	439.3	453.0	
G73.0	439.5	453.1	465.1	502.4	492.2	482.1	456.9	427.1	439.5	

C Plane (°):0.0-360.0: 45.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Carlos

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	427.3	442.3	452.7	488.5	477.7	467.1	442.6	415.9	427.3	
G75.0	416.0	430.8	440.4	474.9	463.9	454.1	430.0	405.1	416.0	
G76.0	405.2	420.4	428.8	461.9	448.4	441.7	417.7	394.4	405.2	
G77.0	394.6	410.1	417.4	449.5	436.5	428.5	405.9	383.5	394.6	
G78.0	384.4	400.1	406.6	437.6	423.9	416.8	394.5	374.0	384.4	
G79.0	373.5	390.1	396.0	425.6	410.7	406.0	382.7	364.7	373.5	
G80.0	364.0	380.0	386.3	413.4	398.7	395.6	372.7	356.6	364.0	
G81.0	355.2	371.2	376.9	402.9	388.5	385.4	363.3	348.6	355.2	
G82.0	347.4	363.3	367.0	393.3	378.4	375.6	354.7	340.3	347.4	
G83.0	339.8	355.5	358.4	383.5	368.7	367.0	345.9	333.2	339.8	
G84.0	331.7	348.4	350.7	374.9	359.6	359.1	338.2	326.5	331.7	
G85.0	324.4	340.7	343.2	366.0	351.5	351.1	330.6	319.7	324.4	
G86.0	317.5	333.5	335.6	357.8	343.3	342.5	323.3	312.7	317.5	
G87.0	310.9	326.7	328.9	350.2	334.8	335.5	315.6	306.2	310.9	
G88.0	304.2	320.1	320.7	342.7	327.4	328.7	308.7	300.0	304.2	
G89.0	297.2	313.3	314.0	335.4	319.9	321.0	302.0	293.3	297.2	
G90.0	290.9	307.2	307.6	328.6	312.0	314.2	295.8	287.2	290.9	
G91.0	285.1	300.2	301.4	321.1	305.2	307.7	288.8	281.5	285.1	
G92.0	279.1	294.2	294.8	314.8	298.7	301.2	282.6	275.9	279.1	
G93.0	272.7	288.4	288.4	308.3	292.0	294.9	276.8	270.2	272.7	
G94.0	267.2	282.8	282.5	301.9	285.3	288.9	271.0	264.4	267.2	
G95.0	262.1	276.5	276.9	295.3	279.3	282.9	264.5	259.3	262.1	
G96.0	256.9	271.0	271.6	289.4	273.6	277.5	259.9	254.3	256.9	
G97.0	251.2	265.7	266.3	283.3	268.2	271.5	254.1	248.8	251.2	
G98.0	245.8	260.4	260.0	277.9	261.3	266.3	248.7	243.7	245.8	
G99.0	240.7	255.0	255.0	272.1	256.6	261.0	243.6	237.9	240.7	
G100.0	236.2	249.4	249.7	266.7	251.2	256.3	238.4	233.9	236.2	
G101.0	231.1	244.5	244.7	261.3	245.4	250.6	233.2	229.0	231.1	
G102.0	226.4	239.3	239.8	255.9	240.7	245.9	228.5	224.4	226.4	
G103.0	221.7	234.6	235.1	251.0	235.9	240.9	224.1	219.7	221.7	
G104.0	217.3	229.9	230.1	245.7	230.2	235.6	219.2	214.8	217.3	
G105.0	212.2	224.9	225.5	240.9	225.4	230.3	214.6	210.0	212.2	
G106.0	208.0	219.8	220.9	235.5	221.0	225.9	209.9	205.7	208.0	
G107.0	203.6	215.1	216.3	231.3	216.5	221.1	205.2	201.4	203.6	
G108.0	199.2	211.2	211.8	226.1	211.4	216.5	200.7	196.6	199.2	
G109.0	195.2	206.4	207.0	221.4	206.9	211.4	196.9	192.6	195.2	
G110.0	190.9	202.1	202.9	217.1	202.5	207.0	192.3	188.3	190.9	

C Plane (°):0.0-360.0: 45.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Carlos

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

### Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G111.0	187.0	197.4	198.7	212.8	198.1	202.7	187.9	184.0	187.0	
G112.0	182.6	193.4	194.7	207.7	192.8	198.0	184.0	179.4	182.6	
G113.0	178.4	188.7	190.3	203.1	188.6	193.6	179.8	175.5	178.4	
G114.0	174.3	184.3	186.0	198.4	184.3	188.7	175.4	171.3	174.3	
G115.0	169.9	180.2	181.6	194.2	179.6	184.9	171.0	166.9	169.9	
G116.0	166.1	176.2	177.7	190.2	175.5	180.6	166.4	162.4	166.1	
G117.0	162.2	171.8	173.3	186.0	171.0	176.5	163.1	158.1	162.2	
G118.0	157.7	167.1	169.1	181.7	167.0	171.8	158.5	153.5	157.7	
G119.0	153.7	163.1	165.0	177.1	162.4	167.1	154.2	149.5	153.7	
G120.0	149.8	158.5	160.8	172.8	158.1	162.9	150.1	144.9	149.8	
G121.0	145.7	154.1	156.6	168.3	153.9	158.4	146.0	140.3	145.7	
G122.0	141.0	149.7	152.3	164.2	149.8	153.4	141.7	136.1	141.0	
G123.0	137.3	145.5	148.3	159.9	145.1	148.8	136.9	131.8	137.3	
G124.0	132.8	141.0	143.6	155.5	140.3	144.4	132.7	127.4	132.8	
G125.0	128.8	136.8	139.3	150.5	136.2	139.7	128.6	123.2	128.8	
G126.0	124.8	132.1	134.9	145.9	131.3	135.3	124.4	118.9	124.8	
G127.0	120.7	127.6	130.6	141.7	126.7	130.8	120.3	114.7	120.7	
G128.0	116.7	123.4	126.3	137.1	122.6	126.3	116.1	110.5	116.7	
G129.0	112.8	119.2	122.6	133.0	118.2	121.9	112.0	106.2	112.8	
G130.0	108.7	115.0	118.1	128.5	114.1	117.4	108.0	102.1	108.7	
G131.0	104.8	110.6	113.7	123.9	110.0	112.5	103.7	98.0	104.8	
G132.0	100.9	106.5	109.7	119.5	105.4	107.9	99.7	94.2	100.9	
G133.0	97.0	102.5	105.7	115.3	100.9	104.1	95.6	90.0	97.0	
G134.0	93.1	98.5	101.5	111.0	96.8	99.6	91.4	86.1	93.1	
G135.0	89.1	94.5	97.8	107.1	92.1	95.8	87.2	82.1	89.1	
G136.0	85.0	90.5	94.2	102.6	87.8	90.8	83.5	78.5	85.0	
G137.0	81.2	86.1	89.5	97.9	83.7	86.7	79.3	74.2	81.2	
G138.0	77.5	82.0	85.3	93.9	79.5	82.2	75.5	70.3	77.5	
G139.0	73.5	78.1	81.6	89.4	75.1	77.8	71.7	66.1	73.5	
G140.0	70.3	74.3	77.8	85.4	71.0	73.4	68.2	62.7	70.3	
G141.0	66.7	70.6	73.9	81.2	66.9	69.3	63.9	58.4	66.7	
G142.0	63.0	66.7	70.2	77.3	62.9	65.1	60.0	54.6	63.0	
G143.0	59.6	62.7	66.3	73.6	58.4	61.1	56.7	50.9	59.6	
G144.0	56.3	59.0	62.3	68.9	54.7	56.6	52.7	47.1	56.3	
G145.0	53.0	55.5	59.0	64.8	50.9	52.6	49.1	43.4	53.0	
G146.0	49.7	52.3	55.4	61.2	47.0	48.9	45.7	40.0	49.7	
G147.0	46.5	47.9	52.1	57.2	43.2	45.2	42.1	36.8	46.5	

C Plane (°):0.0-360.0: 45.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Carlos

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

### Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	43.4	45.0	48.7	53.8	39.8	41.2	38.9	33.8	43.4	
G149.0	40.2	41.9	45.4	50.3	36.6	37.3	35.4	30.5	40.2	
G150.0	37.8	38.8	42.4	47.1	32.9	34.4	32.5	27.7	37.8	
G151.0	34.6	35.8	38.9	43.8	30.2	31.1	29.8	25.3	34.6	
G152.0	31.9	33.1	36.1	40.5	27.2	27.9	26.5	23.1	31.9	
G153.0	29.2	30.5	32.9	37.5	24.4	24.9	24.2	20.4	29.2	
G154.0	26.6	28.2	30.4	34.2	21.8	22.5	22.1	18.3	26.6	
G155.0	24.4	25.8	27.5	31.2	19.6	20.5	19.9	16.8	24.4	
G156.0	22.1	23.8	25.6	29.0	17.3	18.4	18.0	15.2	22.1	
G157.0	20.1	21.8	23.2	26.7	15.3	16.5	15.6	14.2	20.1	
G158.0	18.7	20.0	21.2	23.7	13.5	15.2	14.7	13.4	18.7	
G159.0	17.3	18.7	19.6	21.7	12.2	13.5	13.3	12.8	17.3	
G160.0	15.9	17.7	18.6	20.7	11.2	12.4	12.5	12.4	15.9	
G161.0	15.0	17.0	17.3	18.8	10.6	12.0	11.9	11.9	15.0	
G162.0	14.3	15.8	16.6	18.0	10.2	11.6	11.6	11.9	14.3	
G163.0	14.0	15.2	15.6	16.5	9.8	11.3	11.9	11.9	14.0	
G164.0	13.9	15.0	14.7	15.8	9.6	11.4	11.7	11.9	13.9	
G165.0	13.7	14.5	14.6	15.2	9.4	11.3	11.9	12.1	13.7	
G166.0	13.5	14.8	14.5	14.7	9.5	11.3	12.0	11.9	13.5	
G167.0	13.0	14.7	14.6	14.7	9.2	11.4	12.0	11.8	13.0	
G168.0	13.5	14.4	14.5	14.7	9.5	11.4	12.2	11.9	13.5	
G169.0	12.9	14.1	14.2	14.4	9.4	11.7	12.0	12.2	12.9	
G170.0	12.9	14.1	13.8	14.2	9.2	11.7	12.0	11.9	12.9	
G171.0	12.6	13.4	13.5	14.1	9.1	11.6	11.9	12.2	12.6	
G172.0	12.0	13.3	13.5	13.5	9.1	11.6	11.5	12.2	12.0	
G173.0	11.9	12.7	13.2	13.4	9.4	11.4	11.6	12.4	11.9	
G174.0	12.0	12.8	12.9	12.9	8.9	11.1	11.7	12.2	12.0	
G175.0	11.6	12.4	12.3	12.8	9.2	11.1	12.0	12.2	11.6	
G176.0	11.1	12.3	12.5	12.4	9.1	11.3	11.9	11.8	11.1	
G177.0	11.2	12.1	12.2	12.2	9.1	11.1	12.0	11.8	11.2	
G178.0	10.8	12.0	11.9	12.2	8.9	10.7	12.0	11.9	10.8	
G179.0	10.9	11.8	12.5	11.8	8.8	11.1	11.9	11.9	10.9	
G180.0	10.8	12.0	11.6	11.9	9.2	11.4	12.0	12.1	10.8	

C Plane (°):0.0-360.0: 45.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Carlos

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector: