

Report No.: TH-5071A

Test Time: 2024/10/11 09:57

## Luminaire Property

Luminaire Manufacturer: NORDECOR  
Luminaire Category: 4248  
Lamp Catalog:  
Number of Lamps:  
Luminous Length (mm): 185  
Luminous Height (mm):  
Current: 0.151 A  
Power Factor: 0.526

Luminaire Description: 18W  
Lamp Description:  
Lumens per Lamp:  
Luminous Width (mm): 185  
Voltage: 220.4 V  
Power: 17.48 W

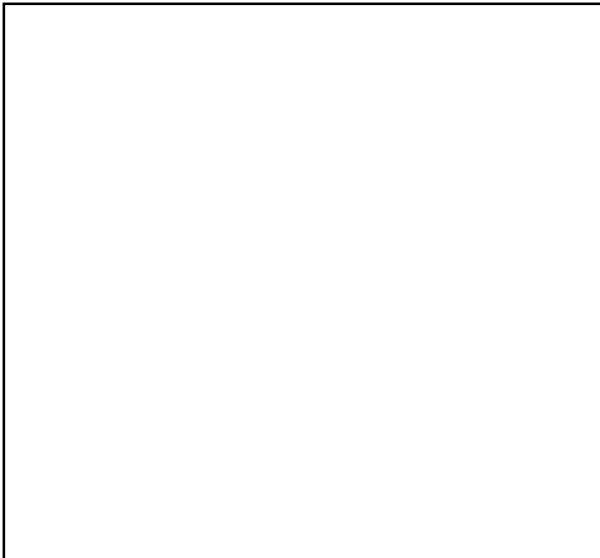
## Photometric Results

CIE Class: Direct  
Measurement Flux: 1469.7 lm  
Downward Ratio: 98%  
Horizontal Diffuse Angle(50%): H110  
Vertical Diffuse Angle(50%): V110.1  
Luminaire Efficacy Rating (LER): 84.13  
Max. Intensity: 527.18 cd  
S/MH(C0/C180): 1.26

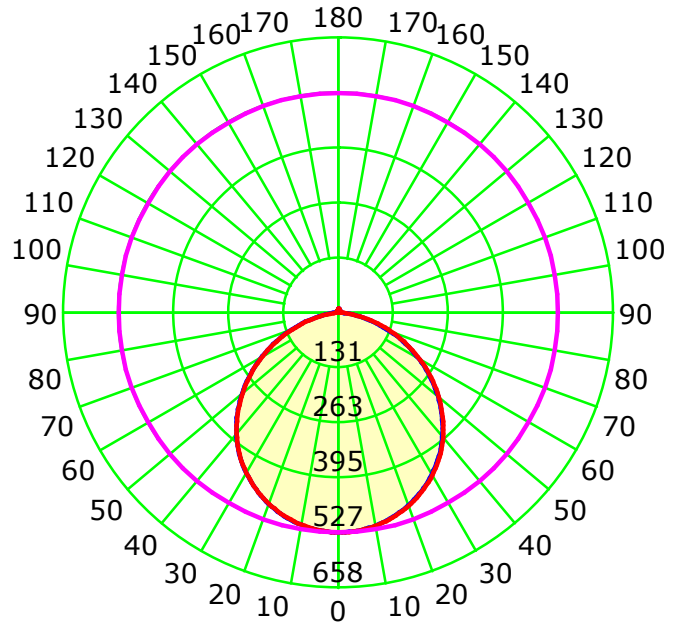
Total Rated Lamp Lumens: 1469.7 lm  
Efficiency: 100%  
Upward Ratio: 2%

C0r0 Intensity: 527.15 cd  
Pos of Max. Intensity: H90 V1  
S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

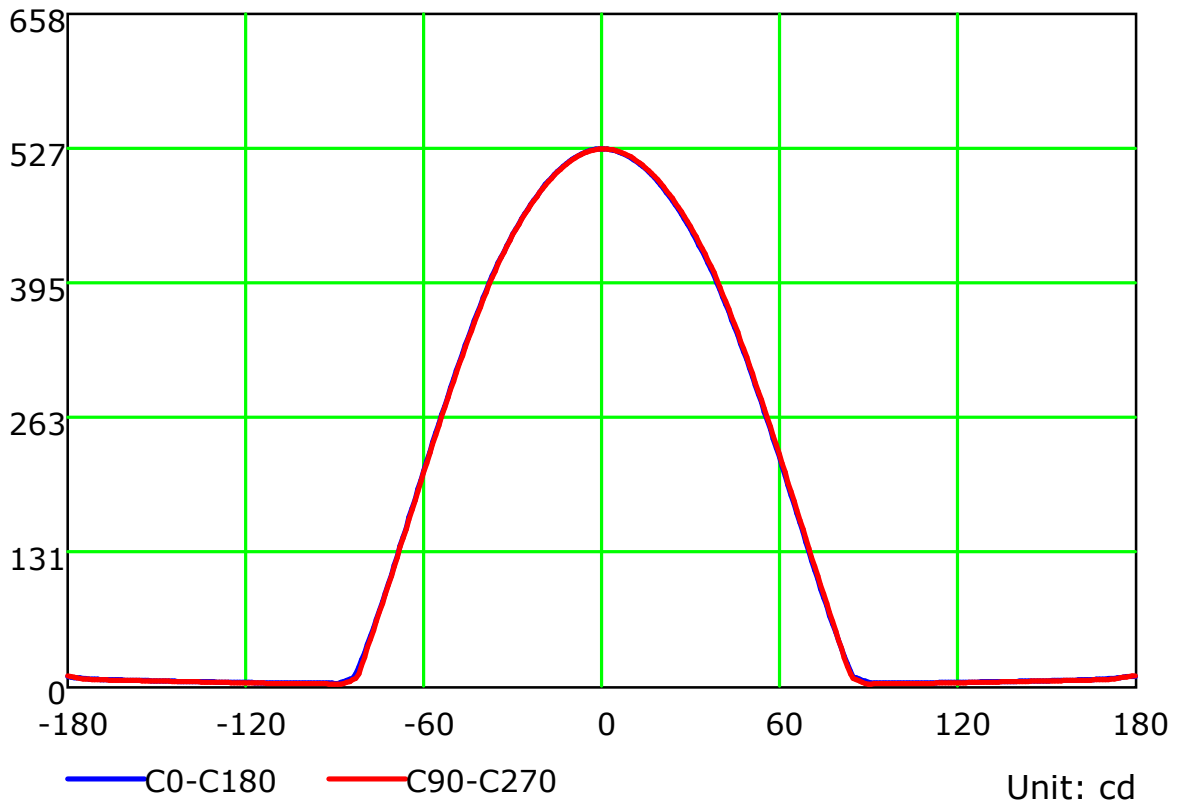
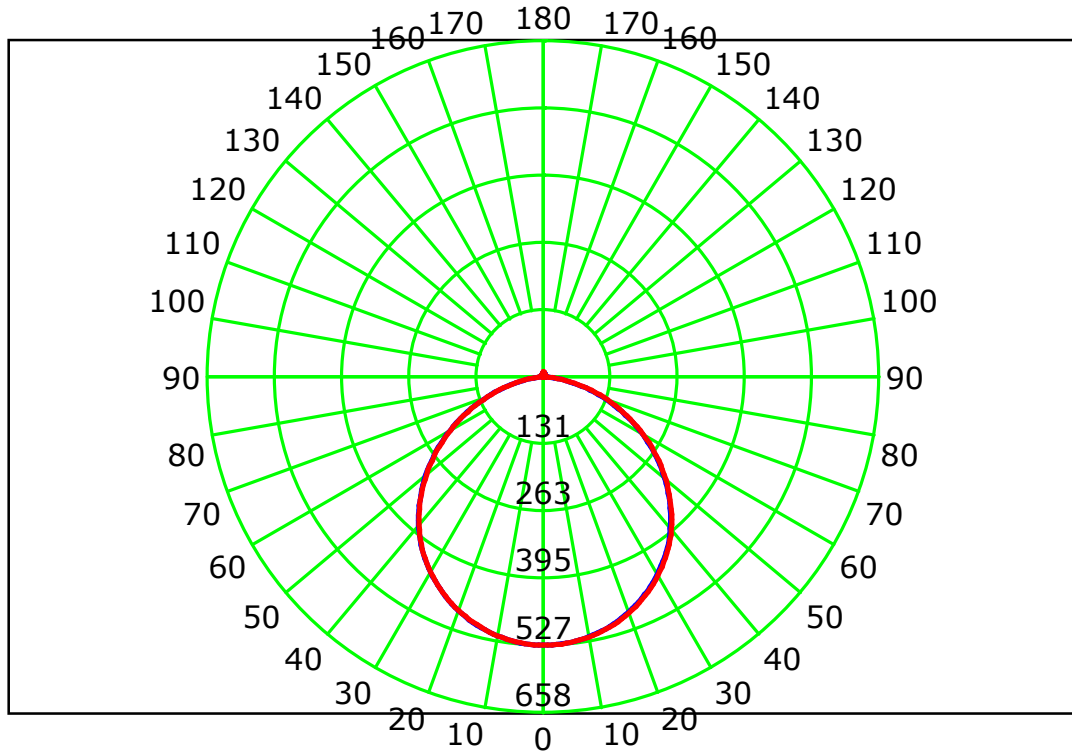
Average Diffuse Angle(50%): 110.0°

— C0-C180 — — C90-C270 — — G1

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instruments  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky

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

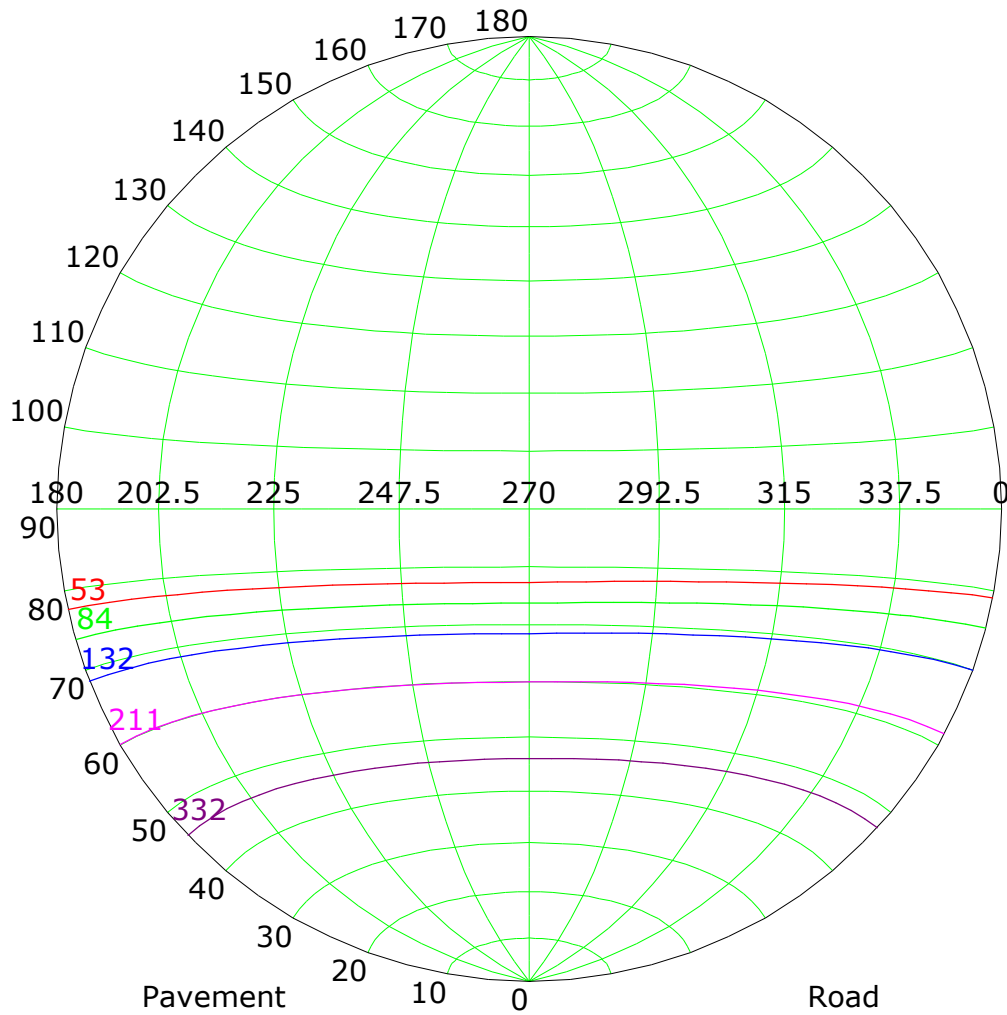
## Luminous Intensity Distribution Curve



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 Temperature: 26  
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## Isocandela (sphere)



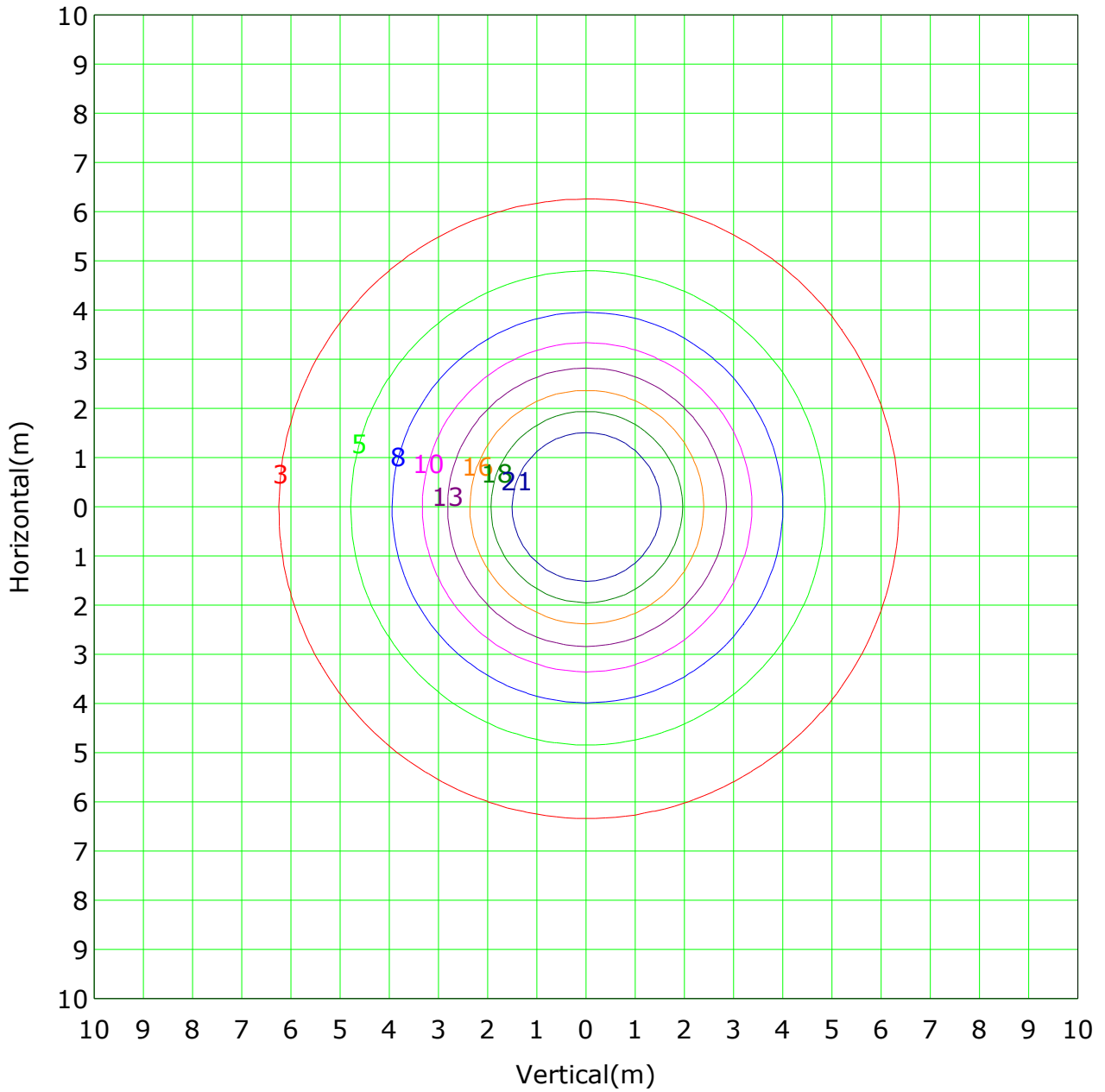
Imax (100%): 527 cd

— ( 10%): 53 cd	— ( 16%): 84 cd
— ( 25%): 132 cd	— ( 40%): 211 cd
— ( 63%): 332 cd	— (100%): 527 cd

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## IsoLux Plot



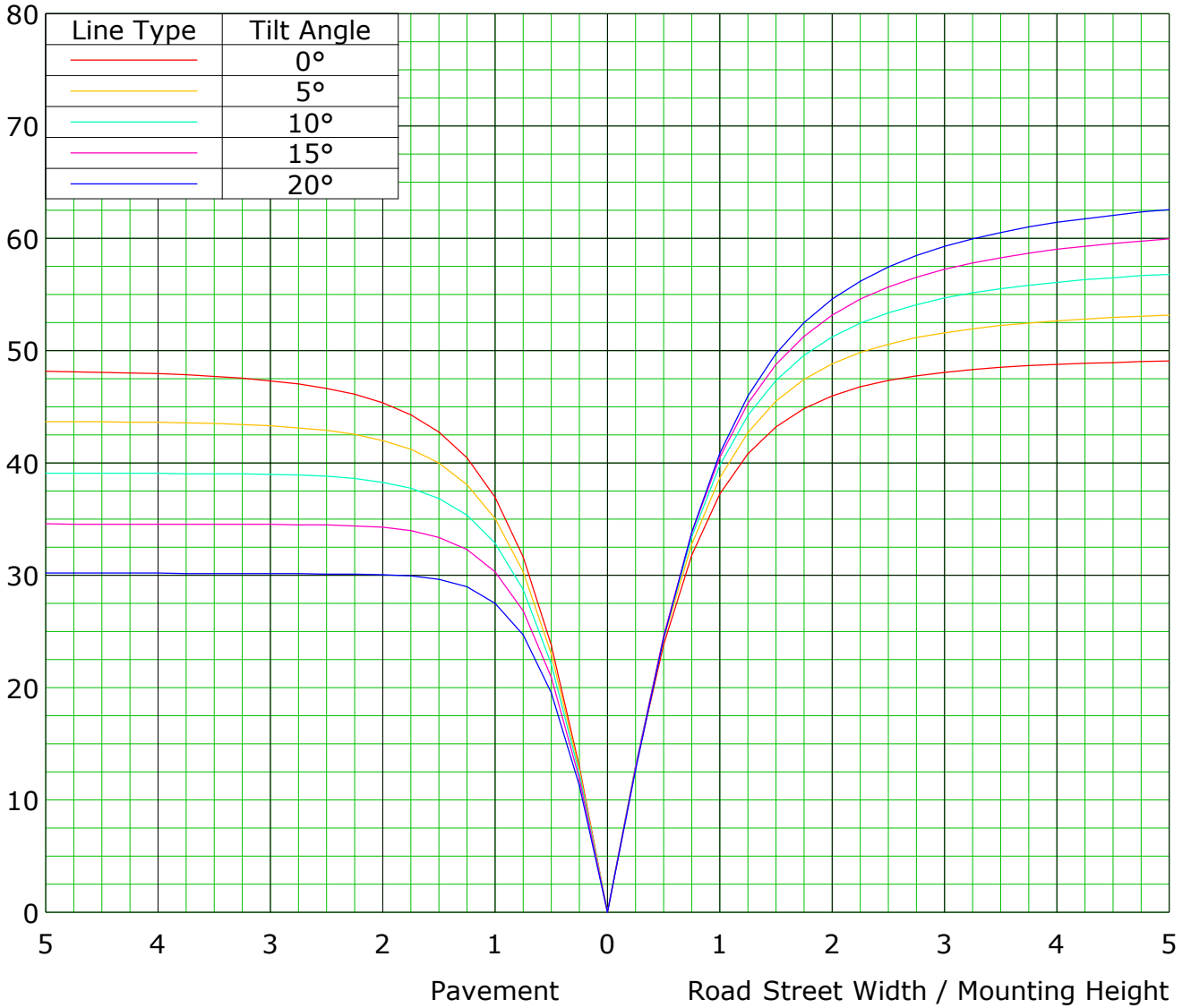
Mounting Height: 4.5m		Max Lux(100%): 26.0 lx
— ( 10%):	2.6 lx	— ( 20%): 5.2 lx
— ( 30%):	7.8 lx	— ( 40%): 10.4 lx
— ( 50%):	13.0 lx	— ( 60%): 15.6 lx
— ( 70%):	18.2 lx	— ( 80%): 20.8 lx

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## Roadway CU Curve

Efficiency(%)



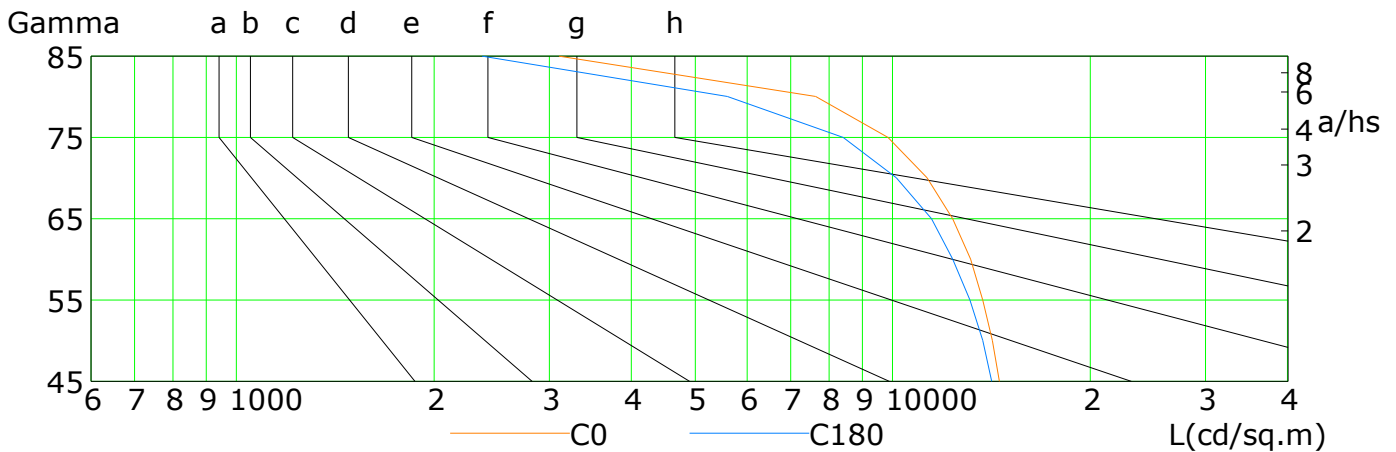
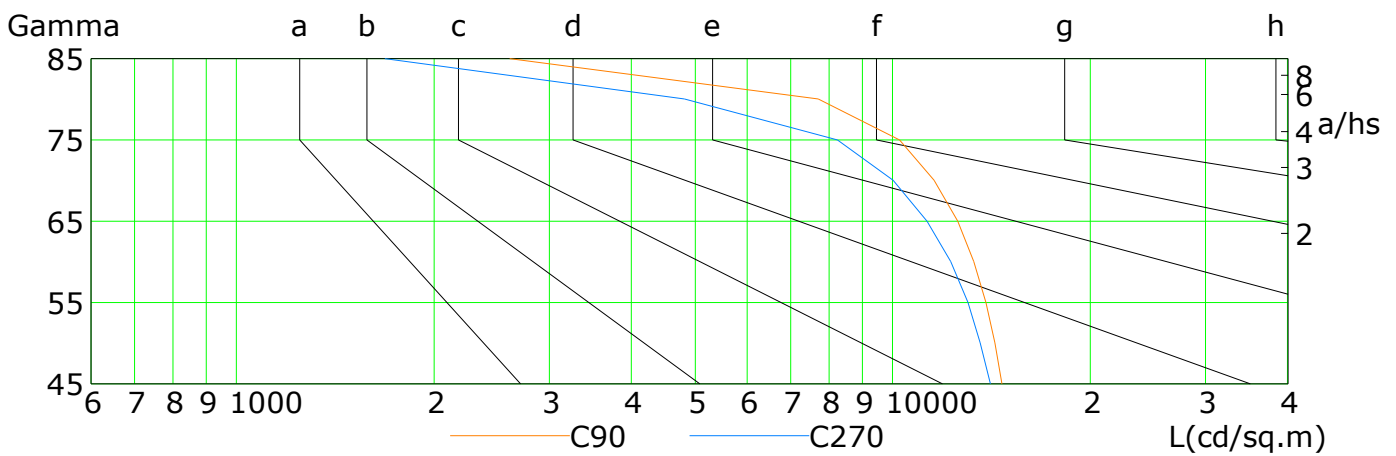
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 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

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 Humidity: 65  
 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

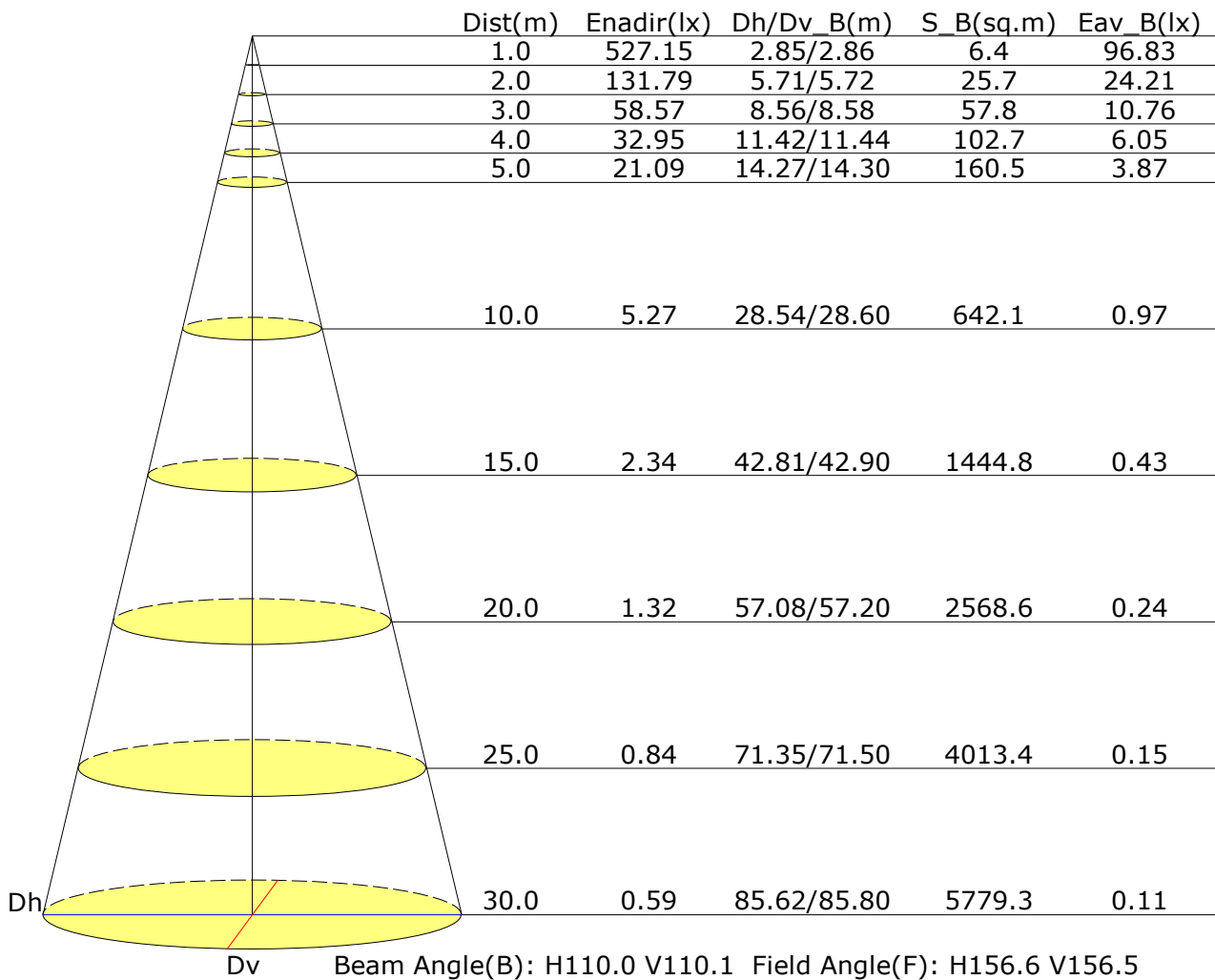


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	14540	14191	13708	13149	12349	11273	9839	7638	3105
C90	14658	14308	13880	13293	12577	11565	10253	7698	2612
C180	14147	13707	13121	12354	11456	10137	8406	5596	2371
C270	14087	13603	13041	12269	11296	10020	8233	4818	1683

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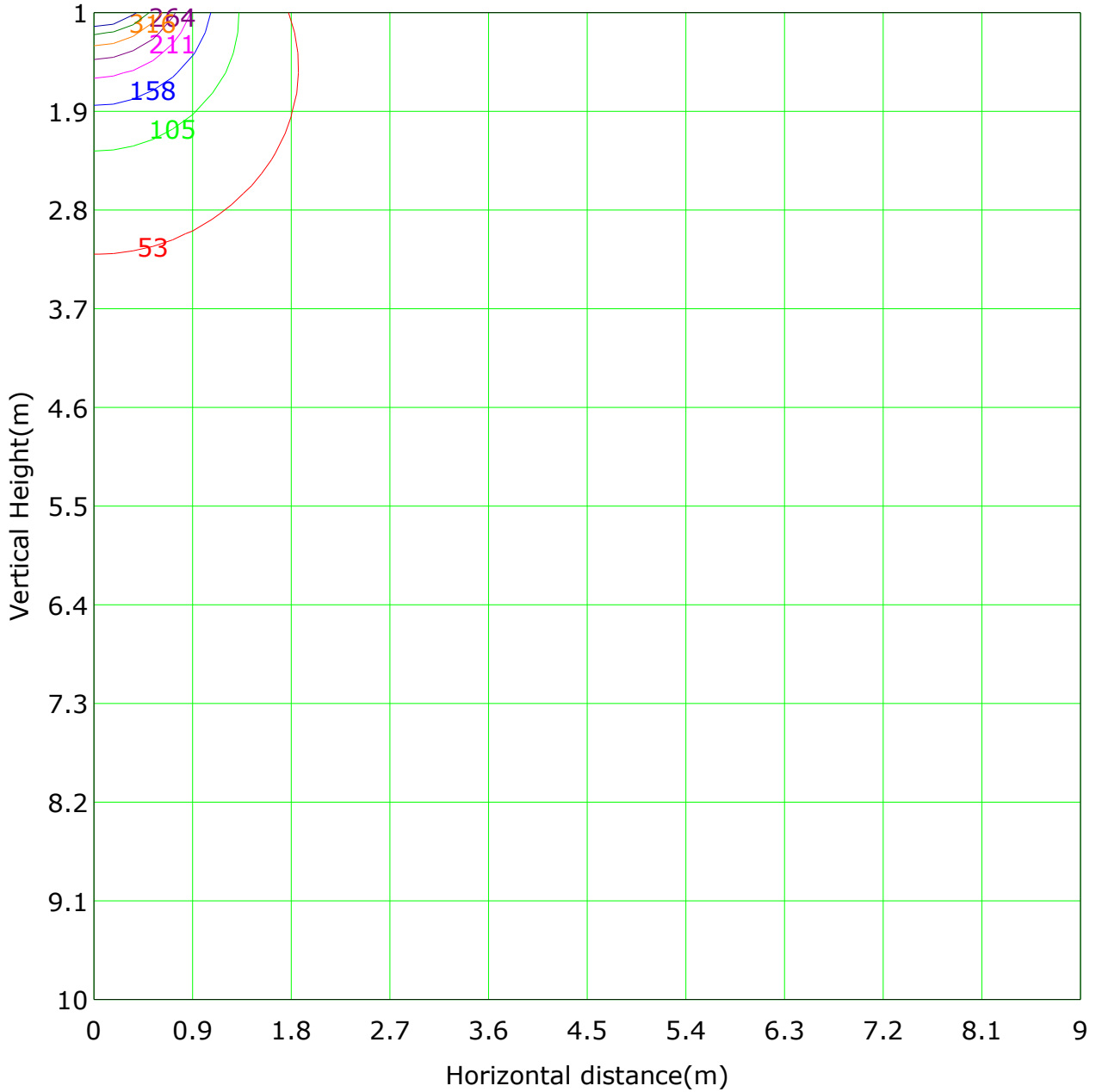
## Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0  
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 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

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

## Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 527.1 lx
— ( 10%): 52.7 lx	— ( 20%): 105.4 lx	
— ( 30%): 158.1 lx	— ( 40%): 210.9 lx	
— ( 50%): 263.6 lx	— ( 60%): 316.3 lx	
— ( 70%): 369.0 lx	— ( 80%): 421.7 lx	

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## Area Flux Table

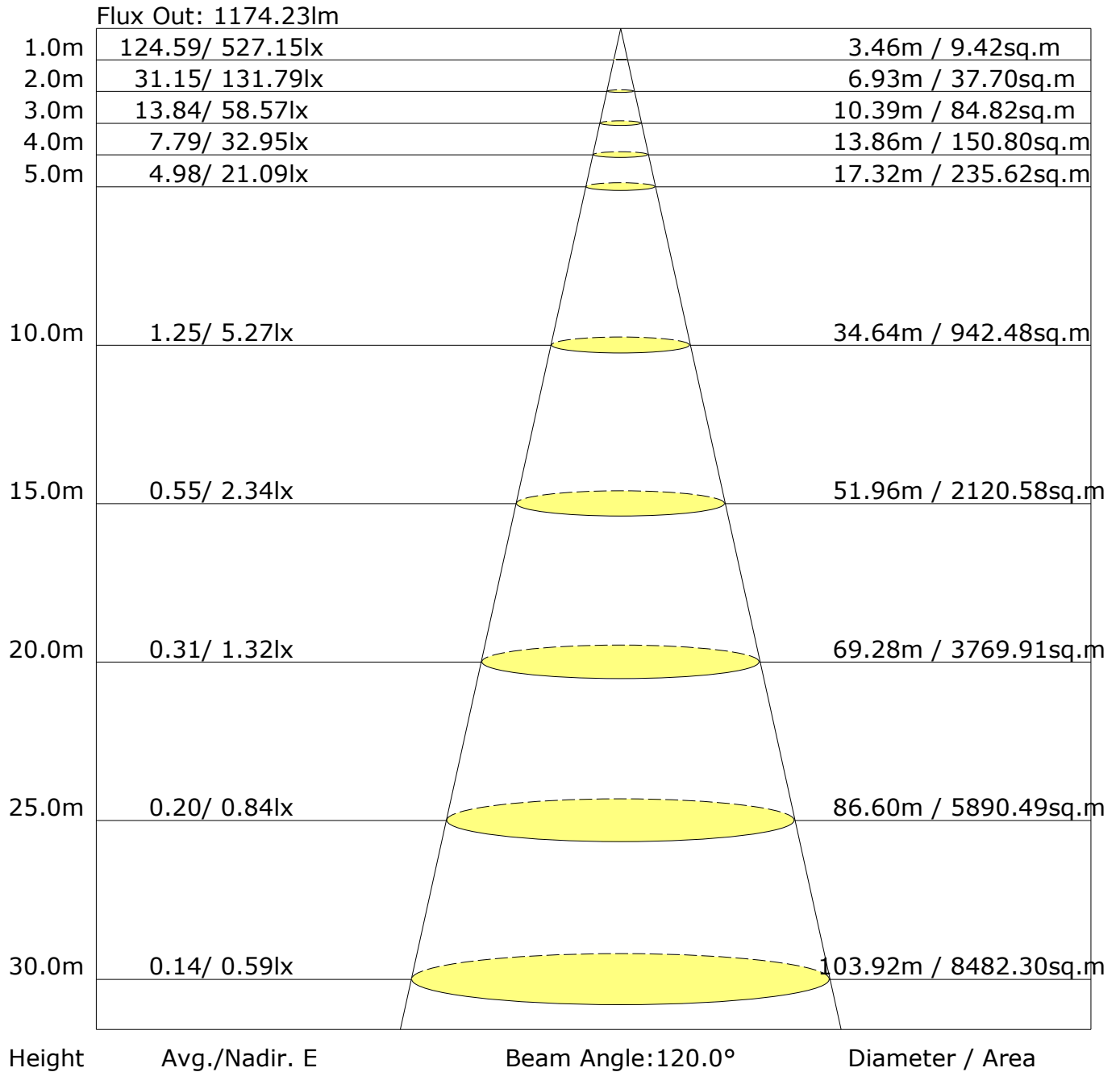
Unit: lm

		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)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1422	1444
-90	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	1422	1444
-80	0.0	0.0	0.1	0.1	0.4	0.8	1.2	1.7	2.0	2.2	2.2	2.1	1.8	1.4	0.9	0.5	0.2	0.1	0.0	0.4	1422	1444
-70	0.0	0.1	0.5	1.1	2.0	3.0	3.9	4.6	4.9	5.0	4.6	4.0	3.1	2.2	1.3	0.6	0.1	0.0	0.0	0.4	1422	1444
-60	0.0	0.2	0.9	2.0	3.3	4.8	6.1	7.1	7.7	7.7	7.2	6.2	4.9	3.5	2.1	1.0	0.3	0.0	0.0	0.4	1422	1444
-50	0.0	0.3	1.2	2.7	4.5	6.5	8.2	9.5	10.2	10.3	9.6	8.3	6.6	4.7	2.9	1.4	0.4	0.0	0.0	0.4	1422	1444
-40	0.0	0.4	1.6	3.4	5.6	7.9	10.0	11.6	12.4	12.5	11.7	10.1	8.1	5.8	3.6	1.7	0.5	0.0	0.0	0.4	1422	1444
-30	0.0	0.5	1.9	3.9	6.4	9.1	11.4	13.1	14.1	14.1	13.2	11.5	9.2	6.6	4.1	2.0	0.6	0.0	0.0	0.4	1422	1444
-20	0.0	0.6	2.0	4.3	7.0	9.9	12.3	14.2	15.2	15.2	14.2	12.4	10.0	7.2	4.5	2.2	0.7	0.1	0.0	0.4	1422	1444
-10	0.0	0.6	2.1	4.5	7.3	10.3	12.8	14.7	15.8	15.8	14.8	12.9	10.4	7.5	4.7	2.3	0.7	0.1	0.0	0.4	1422	1444
0	0.0	0.6	2.2	4.5	7.3	10.3	12.8	14.7	15.8	15.8	14.8	12.9	10.4	7.5	4.7	2.3	0.7	0.1	0.0	0.4	1422	1444
10	0.0	0.6	2.1	4.3	7.1	9.9	12.4	14.3	15.3	15.3	14.3	12.5	10.1	7.3	4.5	2.2	0.7	0.1	0.0	0.4	1422	1444
20	0.0	0.5	1.9	4.0	6.5	9.2	11.6	13.3	14.2	14.3	13.4	11.6	9.3	6.7	4.2	2.0	0.6	0.1	0.0	0.4	1422	1444
30	0.0	0.4	1.6	3.5	5.7	8.1	10.2	11.8	12.7	12.7	11.9	10.3	8.2	5.9	3.6	1.8	0.5	0.0	0.0	0.4	1422	1444
40	0.0	0.3	1.3	2.8	4.7	6.7	8.5	9.9	10.6	10.7	9.9	8.6	6.8	4.9	3.0	1.4	0.4	0.0	0.0	0.4	1422	1444
50	0.0	0.2	0.9	2.1	3.5	5.0	6.5	7.5	8.2	8.2	7.6	6.6	5.2	3.7	2.2	1.0	0.3	0.0	0.0	0.4	1422	1444
60	0.0	0.1	0.5	1.3	2.2	3.3	4.2	5.0	5.4	5.5	5.1	4.4	3.4	2.4	1.4	0.6	0.2	0.0	0.0	0.4	1422	1444
70	0.0	0.0	0.2	0.5	1.0	1.5	2.0	2.4	2.7	2.7	2.5	2.1	1.6	1.1	0.6	0.2	0.1	0.0	0.0	0.4	1422	1444
80	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.4	1422	1444
90	0.4	5.8	21.0	45.3	75.4	107.0	135.3	156.5	168.1	168.4	157.6	137.0	109.3	78.1	48.0	23.2	7.0	0.6	0.0	0.4	1422	1444

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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	21.7	23.0	22.0	23.3	23.6	21.6	22.9	21.9	23.2	23.5
3H	23.1	24.3	23.4	24.6	24.9	23.0	24.2	23.3	24.5	24.8
4H	23.6	24.7	24.0	25.1	25.4	23.4	24.6	23.8	24.9	25.2
6H	23.9	25.0	24.3	25.3	25.7	23.7	24.8	24.1	25.1	25.5
8H	24.0	25.0	24.4	25.3	25.7	23.7	24.7	24.1	25.1	25.5
12H	24.0	24.9	24.4	25.3	25.7	23.7	24.7	24.1	25.0	25.4
X=4H Y=2H	22.3	23.4	22.7	23.8	24.1	22.2	23.4	22.6	23.7	24.0
3H	23.9	24.9	24.3	25.2	25.6	23.8	24.8	24.2	25.1	25.5
4H	24.5	25.4	24.9	25.8	26.2	24.4	25.2	24.8	25.6	26.0
6H	24.9	25.7	25.3	26.1	26.5	24.7	25.5	25.2	25.9	26.3
8H	25.0	25.7	25.4	26.1	26.6	24.7	25.5	25.2	25.9	26.3
12H	25.0	25.6	25.5	26.1	26.6	24.7	25.4	25.2	25.8	26.3
X=8H Y=4H	24.7	25.4	25.2	25.9	26.3	24.6	25.3	25.1	25.7	26.2
6H	25.2	25.8	25.7	26.2	26.7	25.0	25.6	25.5	26.1	26.6
8H	25.3	25.8	25.8	26.3	26.8	25.1	25.6	25.6	26.1	26.6
12H	25.4	25.8	25.9	26.3	26.8	25.1	25.5	25.6	26.0	26.6
X=12H Y=4H	24.7	25.4	25.2	25.8	26.3	24.6	25.2	25.1	25.7	26.2
6H	25.2	25.7	25.7	26.2	26.7	25.0	25.5	25.5	26.0	26.5
8H	25.4	25.8	25.9	26.3	26.8	25.1	25.6	25.6	26.1	26.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.5					+0.4/-0.6				
S=2.0H	+0.6/-0.9					+0.6/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 1470lm ( $8\log(F/F_0) = 1.3$ ).

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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	527.1	0.5	0.5	0.03	0.03
1.0-2.0	526.9	1.5	2.0	0.10	0.14
2.0-3.0	526.4	2.5	4.5	0.17	0.31
3.0-4.0	525.8	3.5	8.1	0.24	0.55
4.0-5.0	525.0	4.5	12.6	0.31	0.86
5.0-6.0	524.0	5.5	18.1	0.37	1.23
6.0-7.0	522.9	6.5	24.6	0.44	1.67
7.0-8.0	521.6	7.5	32.0	0.51	2.18
8.0-9.0	520.1	8.4	40.5	0.57	2.75
9.0-10.0	518.4	9.4	49.8	0.64	3.39
10.0-11.0	516.6	10.3	60.2	0.70	4.09
11.0-12.0	514.6	11.2	71.4	0.77	4.86
12.0-13.0	512.3	12.2	83.6	0.83	5.69
13.0-14.0	510.0	13.1	96.6	0.89	6.58
14.0-15.0	507.4	13.9	110.6	0.95	7.52
15.0-16.0	504.6	14.8	125.4	1.01	8.53
16.0-17.0	501.8	15.6	141.0	1.06	9.59
17.0-18.0	498.7	16.4	157.4	1.12	10.71
18.0-19.0	495.4	17.2	174.7	1.17	11.88
19.0-20.0	492.0	18.0	192.7	1.23	13.11
20.0-21.0	488.5	18.8	211.4	1.28	14.39
21.0-22.0	484.7	19.5	230.9	1.33	15.71
22.0-23.0	480.8	20.2	251.1	1.37	17.09
23.0-24.0	476.8	20.8	271.9	1.42	18.50
24.0-25.0	472.5	21.5	293.4	1.46	19.97
25.0-26.0	468.1	22.1	315.5	1.50	21.47
26.0-27.0	463.6	22.7	338.2	1.54	23.01
27.0-28.0	458.8	23.2	361.5	1.58	24.59
28.0-29.0	453.9	23.8	385.2	1.62	26.21
29.0-30.0	448.9	24.2	409.4	1.65	27.86
30.0-31.0	443.6	24.7	434.1	1.68	29.54
31.0-32.0	438.2	25.1	459.2	1.71	31.25
32.0-33.0	432.7	25.5	484.7	1.73	32.98
33.0-34.0	427.2	25.9	510.6	1.76	34.74
34.0-35.0	421.4	26.2	536.8	1.78	36.52
35.0-36.0	415.3	26.4	563.2	1.80	38.32

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## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	409.0	26.7	589.9	1.82	40.14
37.0-38.0	402.6	26.9	616.8	1.83	41.97
38.0-39.0	395.8	27.0	643.8	1.84	43.81
39.0-40.0	388.8	27.1	670.9	1.85	45.65
40.0-41.0	381.5	27.2	698.1	1.85	47.50
41.0-42.0	374.3	27.2	725.3	1.85	49.35
42.0-43.0	366.9	27.2	752.5	1.85	51.20
43.0-44.0	359.2	27.1	779.6	1.84	53.04
44.0-45.0	351.4	27.0	806.6	1.84	54.88
45.0-46.0	343.6	26.9	833.5	1.83	56.71
46.0-47.0	335.5	26.7	860.2	1.82	58.53
47.0-48.0	327.4	26.5	886.6	1.80	60.33
48.0-49.0	319.2	26.2	912.8	1.78	62.11
49.0-50.0	311.0	25.9	938.8	1.76	63.88
50.0-51.0	302.6	25.6	964.4	1.74	65.62
51.0-52.0	294.1	25.2	989.6	1.72	67.34
52.0-53.0	285.4	24.8	1014.4	1.69	69.03
53.0-54.0	276.8	24.4	1038.8	1.66	70.69
54.0-55.0	268.2	23.9	1062.8	1.63	72.32
55.0-56.0	259.3	23.4	1086.2	1.59	73.91
56.0-57.0	250.3	22.9	1109.1	1.56	75.47
57.0-58.0	241.3	22.3	1131.4	1.52	76.99
58.0-59.0	232.3	21.7	1153.2	1.48	78.46
59.0-60.0	223.1	21.1	1174.2	1.43	79.90
60.0-61.0	213.9	20.4	1194.7	1.39	81.29
61.0-62.0	204.8	19.7	1214.4	1.34	82.63
62.0-63.0	195.5	19.0	1233.4	1.29	83.92
63.0-64.0	186.2	18.3	1251.7	1.24	85.17
64.0-65.0	177.0	17.5	1269.2	1.19	86.36
65.0-66.0	167.8	16.7	1285.9	1.14	87.50
66.0-67.0	158.5	15.9	1301.9	1.08	88.58
67.0-68.0	149.3	15.1	1317.0	1.03	89.61
68.0-69.0	139.9	14.3	1331.3	0.97	90.58
69.0-70.0	130.5	13.4	1344.7	0.91	91.50
70.0-71.0	121.4	12.5	1357.2	0.85	92.35
71.0-72.0	112.5	11.7	1368.9	0.80	93.15

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	103.4	10.8	1379.8	0.74	93.88
73.0-74.0	94.3	9.9	1389.7	0.67	94.56
74.0-75.0	85.6	9.0	1398.7	0.62	95.17
75.0-76.0	76.8	8.2	1406.9	0.55	95.73
76.0-77.0	67.9	7.2	1414.1	0.49	96.22
77.0-78.0	59.4	6.4	1420.5	0.43	96.65
78.0-79.0	50.9	5.5	1426.0	0.37	97.03
79.0-80.0	42.4	4.6	1430.5	0.31	97.34
80.0-81.0	34.2	3.7	1434.2	0.25	97.59
81.0-82.0	26.1	2.8	1437.1	0.19	97.78
82.0-83.0	18.9	2.1	1439.1	0.14	97.92
83.0-84.0	13.0	1.4	1440.5	0.10	98.02
84.0-85.0	8.9	1.0	1441.5	0.07	98.08
85.0-86.0	6.7	0.7	1442.2	0.05	98.13
86.0-87.0	5.6	0.6	1442.8	0.04	98.18
87.0-88.0	4.6	0.5	1443.3	0.03	98.21
88.0-89.0	3.7	0.4	1443.8	0.03	98.24
89.0-90.0	3.1	0.3	1444.1	0.02	98.26
90.0-91.0	2.9	0.3	1444.4	0.02	98.28
91.0-92.0	2.9	0.3	1444.7	0.02	98.30
92.0-93.0	3.0	0.3	1445.1	0.02	98.33
93.0-94.0	3.0	0.3	1445.4	0.02	98.35
94.0-95.0	3.1	0.3	1445.7	0.02	98.37
95.0-96.0	3.1	0.3	1446.1	0.02	98.39
96.0-97.0	3.1	0.3	1446.4	0.02	98.42
97.0-98.0	3.1	0.3	1446.7	0.02	98.44
98.0-99.0	3.1	0.3	1447.1	0.02	98.46
99.0-100.0	3.1	0.3	1447.4	0.02	98.49
100.0-101.0	3.1	0.3	1447.7	0.02	98.51
101.0-102.0	3.1	0.3	1448.1	0.02	98.53
102.0-103.0	3.1	0.3	1448.4	0.02	98.55
103.0-104.0	3.1	0.3	1448.7	0.02	98.57
104.0-105.0	3.1	0.3	1449.0	0.02	98.60
105.0-106.0	3.1	0.3	1449.4	0.02	98.62
106.0-107.0	3.2	0.3	1449.7	0.02	98.64
107.0-108.0	3.2	0.3	1450.0	0.02	98.66

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

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 [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	3.2	0.3	1450.4	0.02	98.69
109.0-110.0	3.2	0.3	1450.7	0.02	98.71
110.0-111.0	3.3	0.3	1451.0	0.02	98.73
111.0-112.0	3.3	0.3	1451.4	0.02	98.76
112.0-113.0	3.4	0.3	1451.7	0.02	98.78
113.0-114.0	3.4	0.3	1452.1	0.02	98.80
114.0-115.0	3.5	0.3	1452.4	0.02	98.83
115.0-116.0	3.5	0.3	1452.8	0.02	98.85
116.0-117.0	3.6	0.4	1453.1	0.02	98.87
117.0-118.0	3.6	0.4	1453.5	0.02	98.90
118.0-119.0	3.7	0.4	1453.8	0.02	98.92
119.0-120.0	3.7	0.4	1454.2	0.02	98.95
120.0-121.0	3.8	0.4	1454.5	0.02	98.97
121.0-122.0	3.8	0.4	1454.9	0.02	98.99
122.0-123.0	3.9	0.4	1455.2	0.02	99.02
123.0-124.0	3.9	0.4	1455.6	0.02	99.04
124.0-125.0	4.0	0.4	1456.0	0.02	99.07
125.0-126.0	4.0	0.4	1456.3	0.02	99.09
126.0-127.0	4.1	0.4	1456.7	0.02	99.12
127.0-128.0	4.1	0.4	1457.0	0.02	99.14
128.0-129.0	4.2	0.4	1457.4	0.02	99.16
129.0-130.0	4.2	0.4	1457.7	0.02	99.19
130.0-131.0	4.3	0.4	1458.1	0.02	99.21
131.0-132.0	4.3	0.4	1458.5	0.02	99.24
132.0-133.0	4.4	0.4	1458.8	0.02	99.26
133.0-134.0	4.5	0.4	1459.2	0.02	99.29
134.0-135.0	4.5	0.4	1459.5	0.02	99.31
135.0-136.0	4.6	0.4	1459.9	0.02	99.33
136.0-137.0	4.6	0.4	1460.2	0.02	99.36
137.0-138.0	4.7	0.3	1460.6	0.02	99.38
138.0-139.0	4.8	0.3	1460.9	0.02	99.40
139.0-140.0	4.8	0.3	1461.3	0.02	99.43
140.0-141.0	4.8	0.3	1461.6	0.02	99.45
141.0-142.0	4.9	0.3	1461.9	0.02	99.47
142.0-143.0	5.0	0.3	1462.3	0.02	99.50
143.0-144.0	5.0	0.3	1462.6	0.02	99.52

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	5.1	0.3	1462.9	0.02	99.54
145.0-146.0	5.1	0.3	1463.2	0.02	99.56
146.0-147.0	5.2	0.3	1463.5	0.02	99.58
147.0-148.0	5.3	0.3	1463.9	0.02	99.61
148.0-149.0	5.3	0.3	1464.2	0.02	99.63
149.0-150.0	5.4	0.3	1464.5	0.02	99.65
150.0-151.0	5.5	0.3	1464.8	0.02	99.67
151.0-152.0	5.5	0.3	1465.0	0.02	99.69
152.0-153.0	5.6	0.3	1465.3	0.02	99.71
153.0-154.0	5.6	0.3	1465.6	0.02	99.72
154.0-155.0	5.7	0.3	1465.9	0.02	99.74
155.0-156.0	5.8	0.3	1466.1	0.02	99.76
156.0-157.0	5.8	0.3	1466.4	0.02	99.78
157.0-158.0	5.9	0.2	1466.6	0.02	99.79
158.0-159.0	6.0	0.2	1466.9	0.02	99.81
159.0-160.0	6.0	0.2	1467.1	0.02	99.83
160.0-161.0	6.1	0.2	1467.3	0.02	99.84
161.0-162.0	6.2	0.2	1467.5	0.01	99.86
162.0-163.0	6.2	0.2	1467.8	0.01	99.87
163.0-164.0	6.3	0.2	1468.0	0.01	99.88
164.0-165.0	6.4	0.2	1468.1	0.01	99.90
165.0-166.0	6.5	0.2	1468.3	0.01	99.91
166.0-167.0	6.5	0.2	1468.5	0.01	99.92
167.0-168.0	6.6	0.2	1468.6	0.01	99.93
168.0-169.0	6.7	0.1	1468.8	0.01	99.94
169.0-170.0	6.9	0.1	1468.9	0.01	99.95
170.0-171.0	7.0	0.1	1469.1	0.01	99.96
171.0-172.0	7.2	0.1	1469.2	0.01	99.97
172.0-173.0	7.3	0.1	1469.3	0.01	99.97
173.0-174.0	7.6	0.1	1469.4	0.01	99.98
174.0-175.0	7.9	0.1	1469.5	0.01	99.99
175.0-176.0	8.3	0.1	1469.5	0.00	99.99
176.0-177.0	8.8	0.1	1469.6	0.00	99.99
177.0-178.0	9.2	0.0	1469.6	0.00	100.00
178.0-179.0	9.5	0.0	1469.7	0.00	100.00
179.0-180.0	9.7	0.0	1469.7	0.00	100.00

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

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°): 806.59 lm

%lum = 54.9%

%lamp = 54.9%

cone flux(120°): 1174.23 lm

%lum = 79.9%

%lamp = 79.9%

## Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	527.1	527.1	527.1	527.1	527.1					
G1.0	527.0	527.2	527.1	527.0	527.0					
G2.0	526.7	526.9	526.6	526.5	526.7					
G3.0	526.2	526.5	526.1	525.8	526.2					
G4.0	525.6	526.0	525.3	525.0	525.6					
G5.0	524.8	525.2	524.2	524.0	524.8					
G6.0	523.9	524.2	523.0	522.9	523.9					
G7.0	522.7	523.3	521.6	521.4	522.7					
G8.0	521.4	522.1	520.1	519.9	521.4					
G9.0	520.0	520.6	518.4	518.1	520.0					
G10.0	518.2	519.1	516.6	516.2	518.2					
G11.0	516.4	517.3	514.7	514.2	516.4					
G12.0	514.2	515.2	512.3	512.0	514.2					
G13.0	512.1	513.1	510.0	509.5	512.1					
G14.0	509.7	510.9	507.6	507.0	509.7					
G15.0	507.2	508.2	504.7	504.0	507.2					
G16.0	504.3	505.6	501.8	501.1	504.3					
G17.0	501.4	502.9	498.9	498.2	501.4					
G18.0	498.3	499.9	495.3	494.7	498.3					
G19.0	494.9	496.6	492.0	491.4	494.9					
G20.0	491.6	493.4	488.5	487.8	491.6					
G21.0	488.0	490.1	484.4	484.1	488.0					
G22.0	484.0	486.2	480.6	480.0	484.0					
G23.0	480.2	482.6	476.6	476.0	480.2					
G24.0	476.2	478.3	472.5	471.9	476.2					
G25.0	472.2	474.2	467.7	467.2	472.2					
G26.0	467.8	470.0	463.2	462.7	467.8					
G27.0	462.9	465.6	458.6	458.0	462.9					
G28.0	458.2	461.0	453.4	452.8	458.2					
G29.0	453.3	456.2	448.4	447.9	453.3					
G30.0	448.3	450.9	443.2	442.7	448.3					
G31.0	443.2	445.9	438.0	436.9	443.2					
G32.0	437.6	440.8	432.1	431.5	437.6					
G33.0	432.3	435.1	426.5	425.8	432.3					
G34.0	426.9	429.7	420.7	420.1	426.9					
G35.0	420.7	424.1	414.9	414.1	420.7					
G36.0	415.0	417.8	408.8	407.2	415.0					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

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	C90.0	C180.0	C270.0	C360.0					
G37.0	408.9	411.8	402.3	400.6	408.9					
G38.0	402.5	405.5	395.2	394.0	402.5					
G39.0	396.0	399.0	388.3	386.3	396.0					
G40.0	388.6	391.5	381.2	379.2	388.6					
G41.0	381.7	384.6	373.5	372.1	381.7					
G42.0	374.6	377.5	366.0	364.6	374.6					
G43.0	367.3	370.1	358.5	356.3	367.3					
G44.0	359.3	362.2	350.9	348.7	359.3					
G45.0	351.9	354.7	342.4	340.9	351.9					
G46.0	344.4	347.2	334.6	332.4	344.4					
G47.0	335.9	338.7	326.7	324.4	335.9					
G48.0	328.1	330.8	317.9	316.4	328.1					
G49.0	320.2	323.0	309.8	307.5	320.2					
G50.0	312.2	314.8	301.6	299.3	312.2					
G51.0	303.2	306.6	292.5	291.0	303.2					
G52.0	295.0	297.6	284.1	282.6	295.0					
G53.0	286.7	289.3	274.8	273.4	286.7					
G54.0	278.4	280.9	266.2	264.6	278.4					
G55.0	269.1	272.5	257.6	256.0	269.1					
G56.0	260.6	263.2	248.8	246.4	260.6					
G57.0	252.1	254.5	239.1	237.6	252.1					
G58.0	242.5	245.9	230.2	228.8	242.5					
G59.0	233.8	237.1	221.3	218.9	233.8					
G60.0	225.0	227.5	211.4	210.0	225.0					
G61.0	215.3	218.6	202.5	201.1	215.3					
G62.0	206.4	209.7	193.6	191.3	206.4					
G63.0	197.5	199.9	183.7	182.3	197.5					
G64.0	187.6	190.9	174.7	173.2	187.6					
G65.0	178.6	181.9	165.7	163.4	178.6					
G66.0	169.6	172.9	155.6	154.3	169.6					
G67.0	160.6	163.1	146.6	145.3	160.6					
G68.0	150.8	154.1	137.6	136.2	150.8					
G69.0	141.8	145.2	127.6	126.3	141.8					
G70.0	132.0	135.4	118.7	117.3	132.0					
G71.0	123.1	126.5	109.7	108.4	123.1					
G72.0	114.2	117.7	101.0	99.6	114.2					
G73.0	105.4	108.1	91.5	90.0	105.4					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

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	C90.0	C180.0	C270.0	C360.0					
G74.0	95.8	99.4	82.9	81.4	95.8					
G75.0	87.2	90.8	74.5	72.9	87.2					
G76.0	78.7	81.3	65.3	63.6	78.7					
G77.0	69.4	72.7	57.3	55.1	69.4					
G78.0	61.2	64.0	49.3	46.4	61.2					
G79.0	53.2	54.4	40.8	37.9	53.2					
G80.0	45.4	45.7	33.3	28.6	45.4					
G81.0	36.9	37.2	25.9	20.3	36.9					
G82.0	29.5	28.1	19.0	12.2	29.5					
G83.0	22.3	20.1	12.5	7.7	22.3					
G84.0	14.8	12.5	8.0	6.4	14.8					
G85.0	9.3	7.8	7.1	5.0	9.3					
G86.0	8.4	6.6	6.0	3.8	8.4					
G87.0	7.3	5.3	4.9	2.6	7.3					
G88.0	6.2	4.2	3.9	2.0	6.2					
G89.0	5.0	3.1	3.0	2.1	5.0					
G90.0	4.0	2.4	3.0	2.2	4.0					
G91.0	3.6	2.5	3.1	2.3	3.6					
G92.0	3.6	2.5	3.3	2.4	3.6					
G93.0	3.6	2.6	3.4	2.5	3.6					
G94.0	3.6	2.6	3.4	2.6	3.6					
G95.0	3.6	2.6	3.5	2.6	3.6					
G96.0	3.6	2.6	3.5	2.7	3.6					
G97.0	3.5	2.6	3.5	2.7	3.5					
G98.0	3.5	2.5	3.5	2.7	3.5					
G99.0	3.5	2.6	3.5	2.7	3.5					
G100.0	3.4	2.7	3.5	2.7	3.4					
G101.0	3.5	2.7	3.4	2.7	3.5					
G102.0	3.4	2.7	3.4	2.8	3.4					
G103.0	3.4	2.7	3.4	2.8	3.4					
G104.0	3.5	2.7	3.4	2.8	3.5					
G105.0	3.5	2.8	3.4	2.8	3.5					
G106.0	3.5	2.8	3.4	2.8	3.5					
G107.0	3.5	2.9	3.4	2.9	3.5					
G108.0	3.5	2.9	3.4	2.9	3.5					
G109.0	3.6	2.9	3.4	2.9	3.6					
G110.0	3.7	3.0	3.5	3.0	3.7					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

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	C90.0	C180.0	C270.0	C360.0					
G111.0	3.7	3.0	3.5	3.0	3.7					
G112.0	3.7	3.1	3.5	3.1	3.7					
G113.0	3.7	3.2	3.6	3.1	3.7					
G114.0	3.8	3.2	3.6	3.2	3.8					
G115.0	3.9	3.3	3.7	3.2	3.9					
G116.0	3.9	3.3	3.7	3.3	3.9					
G117.0	3.9	3.4	3.8	3.3	3.9					
G118.0	4.0	3.4	3.8	3.4	4.0					
G119.0	4.0	3.5	3.9	3.4	4.0					
G120.0	4.0	3.5	3.8	3.5	4.0					
G121.0	4.1	3.6	3.9	3.5	4.1					
G122.0	4.1	3.7	4.0	3.6	4.1					
G123.0	4.2	3.7	4.1	3.6	4.2					
G124.0	4.2	3.9	4.1	3.7	4.2					
G125.0	4.3	3.9	4.1	3.7	4.3					
G126.0	4.3	3.9	4.2	3.8	4.3					
G127.0	4.4	4.0	4.2	3.8	4.4					
G128.0	4.4	4.0	4.3	3.9	4.4					
G129.0	4.5	4.0	4.3	4.0	4.5					
G130.0	4.5	4.1	4.3	4.0	4.5					
G131.0	4.6	4.2	4.4	4.1	4.6					
G132.0	4.6	4.2	4.4	4.2	4.6					
G133.0	4.7	4.3	4.5	4.2	4.7					
G134.0	4.7	4.4	4.5	4.3	4.7					
G135.0	4.8	4.4	4.6	4.4	4.8					
G136.0	4.8	4.5	4.7	4.4	4.8					
G137.0	4.9	4.5	4.8	4.5	4.9					
G138.0	4.9	4.6	4.8	4.6	4.9					
G139.0	4.9	4.7	4.9	4.6	4.9					
G140.0	5.0	4.7	4.9	4.7	5.0					
G141.0	5.0	4.8	4.9	4.7	5.0					
G142.0	5.1	4.9	5.0	4.8	5.1					
G143.0	5.2	4.9	5.0	4.9	5.2					
G144.0	5.3	5.0	5.1	4.9	5.3					
G145.0	5.3	5.0	5.1	5.0	5.3					
G146.0	5.3	5.1	5.2	5.1	5.3					
G147.0	5.4	5.2	5.2	5.1	5.4					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

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	C90.0	C180.0	C270.0	C360.0					
G148.0	5.4	5.2	5.3	5.2	5.4					
G149.0	5.5	5.3	5.4	5.3	5.5					
G150.0	5.6	5.4	5.5	5.3	5.6					
G151.0	5.6	5.4	5.5	5.4	5.6					
G152.0	5.7	5.5	5.6	5.4	5.7					
G153.0	5.8	5.5	5.7	5.5	5.8					
G154.0	5.8	5.6	5.7	5.5	5.8					
G155.0	5.9	5.6	5.8	5.6	5.9					
G156.0	5.9	5.7	5.9	5.7	5.9					
G157.0	6.0	5.8	6.0	5.8	6.0					
G158.0	6.1	5.8	6.0	5.8	6.1					
G159.0	6.2	5.9	6.1	5.8	6.2					
G160.0	6.2	6.0	6.1	6.0	6.2					
G161.0	6.3	6.0	6.2	6.0	6.3					
G162.0	6.4	6.1	6.3	6.0	6.4					
G163.0	6.5	6.1	6.4	6.1	6.5					
G164.0	6.6	6.2	6.5	6.2	6.6					
G165.0	6.7	6.2	6.6	6.2	6.7					
G166.0	6.8	6.3	6.6	6.2	6.8					
G167.0	6.9	6.4	6.7	6.4	6.9					
G168.0	7.0	6.5	6.8	6.4	7.0					
G169.0	7.2	6.6	6.9	6.5	7.2					
G170.0	7.4	6.7	7.0	6.6	7.4					
G171.0	7.6	6.9	7.2	6.8	7.6					
G172.0	7.8	7.1	7.2	6.9	7.8					
G173.0	8.0	7.3	7.5	7.0	8.0					
G174.0	8.3	7.7	7.7	7.2	8.3					
G175.0	8.6	8.3	7.9	7.5	8.6					
G176.0	9.0	9.0	8.2	8.0	9.0					
G177.0	9.4	9.4	8.5	8.6	9.4					
G178.0	9.6	9.9	8.7	9.2	9.6					
G179.0	9.6	10.3	9.2	9.6	9.6					
G180.0	9.5	10.1	9.5	10.1	9.5					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

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