



Report No.:

Test Time: 2019-7-15 09:18

## Luminaire Property

Luminaire Manufacturer:

Voltage: 276.9 V

Power: 158.77 W

Current: 0.5891 A

Power Factor: 0.973

## Photometric Results

CIE Class: Direct

Measurement Flux: 21945.7 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H101.9

Vertical Diffuse Angle(50%): V103.9

Luminaire Efficacy Rating (LER): 138.22

Max. Intensity: 8536.54 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 21945.7 lm

Efficiency: 100%

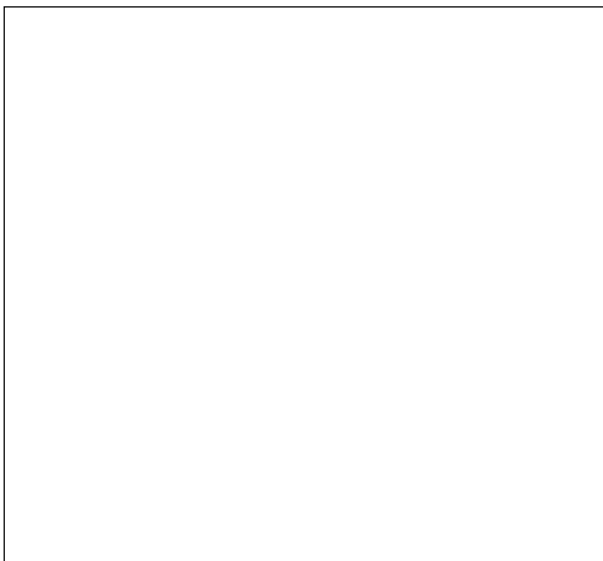
Upward Ratio: 1%

Central Intensity: 8530.19 cd

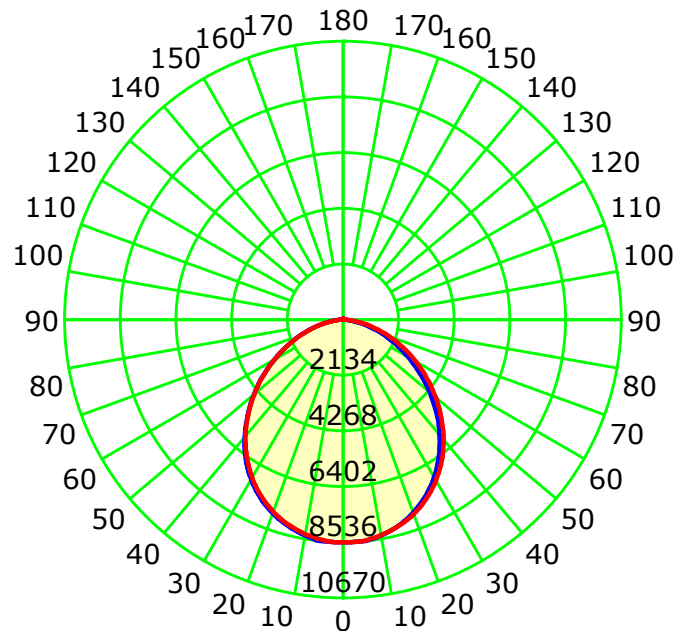
Pos of Max. Intensity: H135 V1

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 102.9°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 28.8 °C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-3000

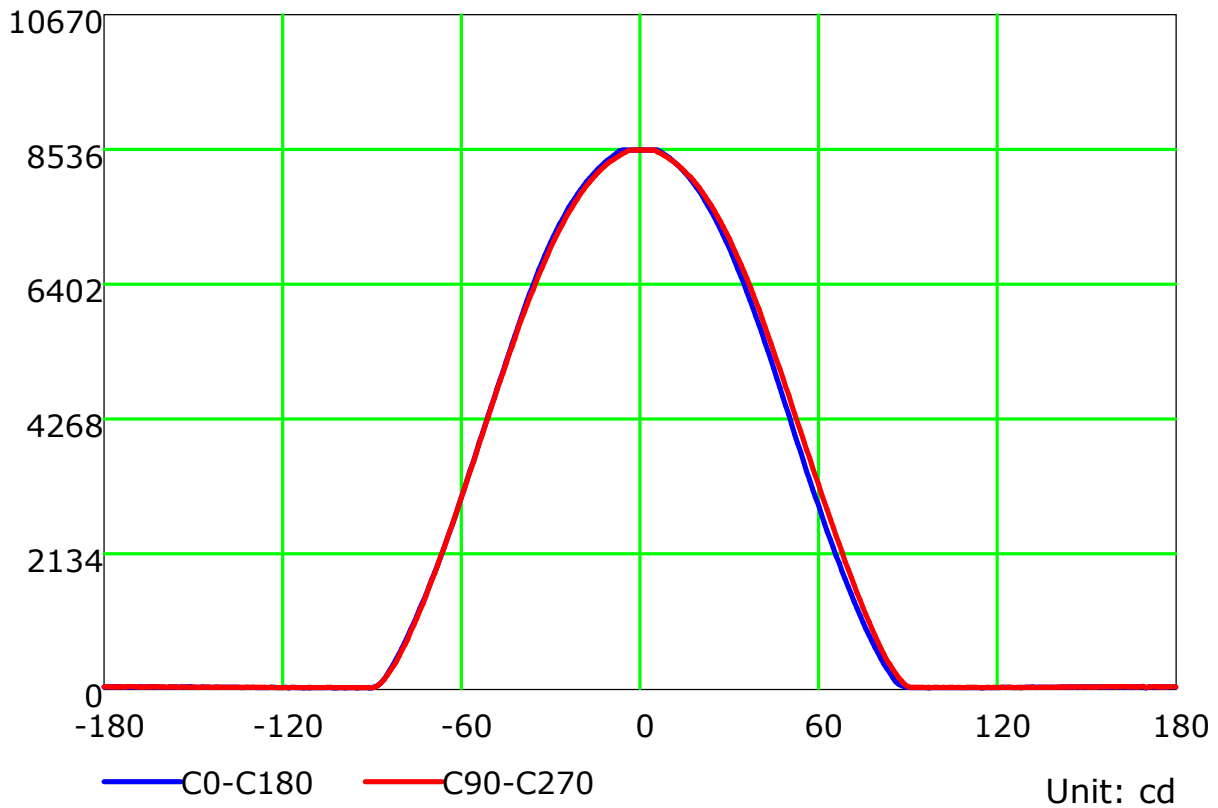
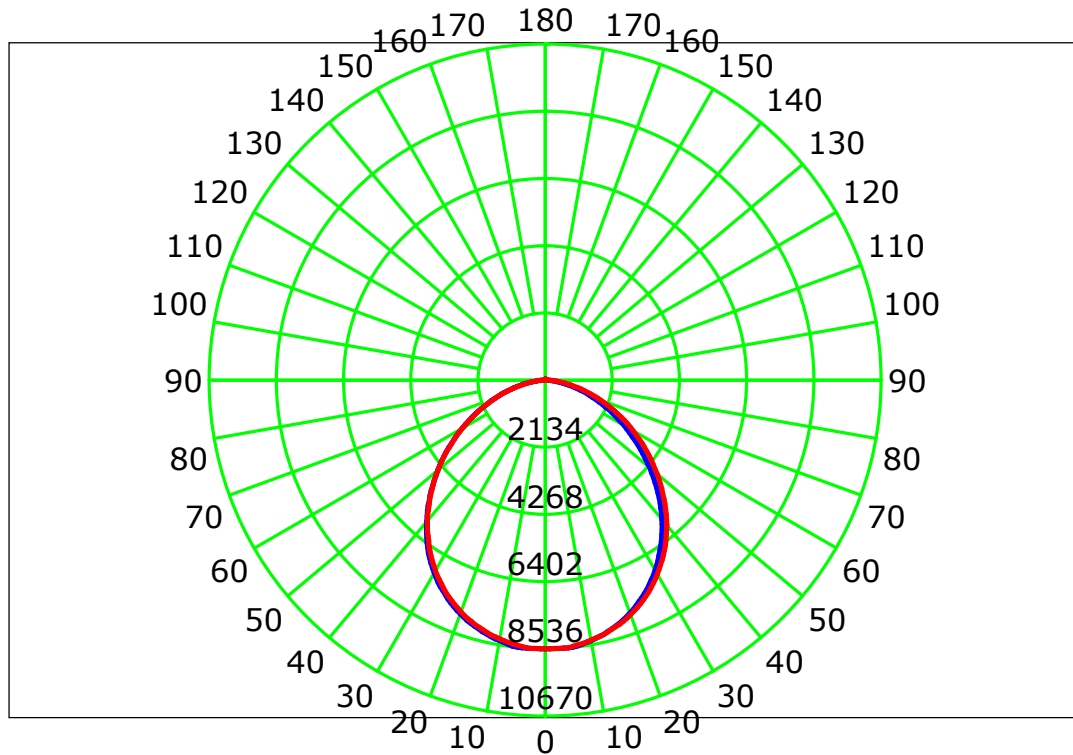
Distance: 14.040 m [K=1.0000]

Humidity:

Inspector:



## Luminous Intensity Distribution Curve

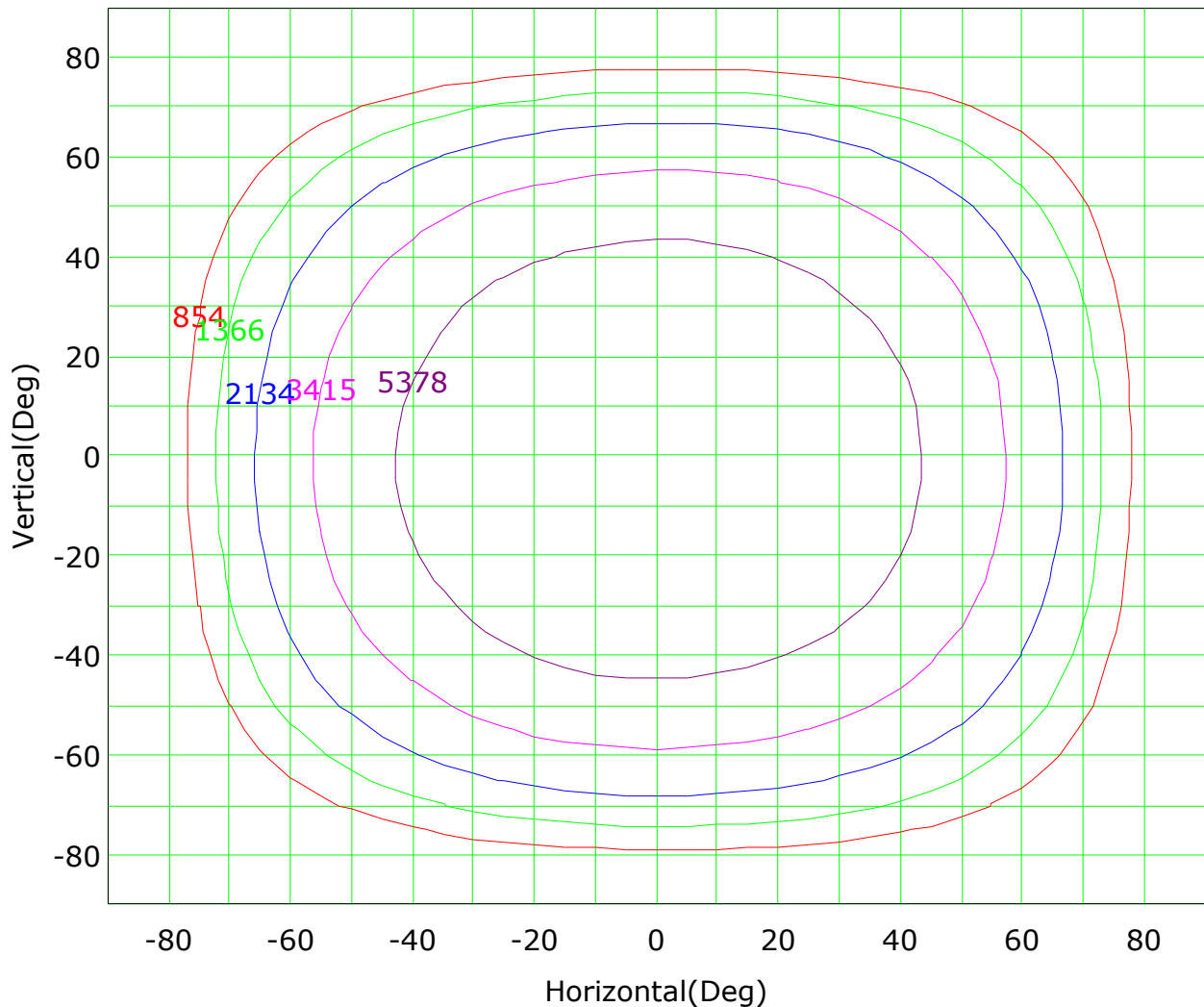


C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 28.8 °C  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-3000  
Distance: 14.040 m [K=1.0000]  
Humidity:  
Inspector:



## Isocandela (rectangle)



Imax (100%): 8537 cd

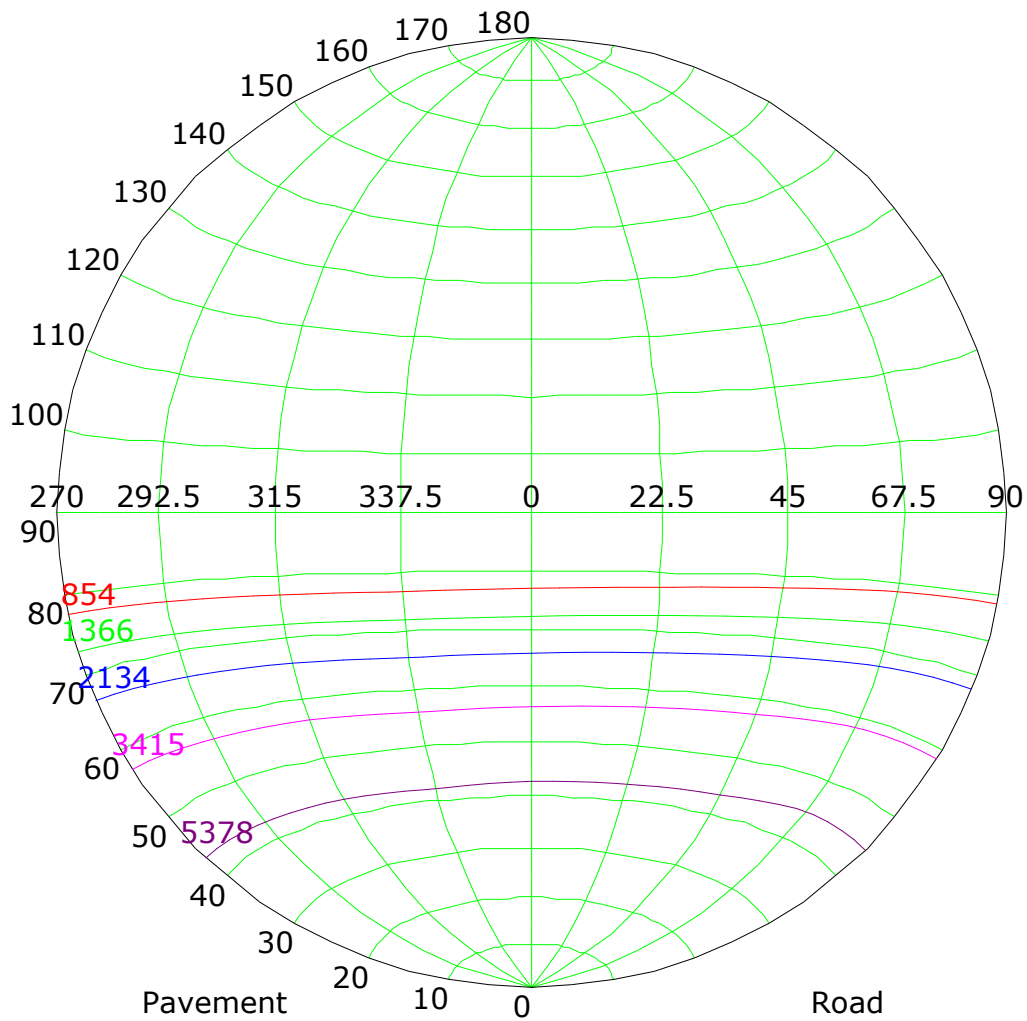
( 10%): 854 cd	( 16%): 1366 cd
( 25%): 2134 cd	( 40%): 3415 cd
( 63%): 5378 cd	(100%): 8537 cd

C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 28.8 'C  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-3000  
Distance: 14.040 m [K=1.0000]  
Humidity:  
Inspector:



## Isocandela (sphere)



Imax (100%): 8537 cd

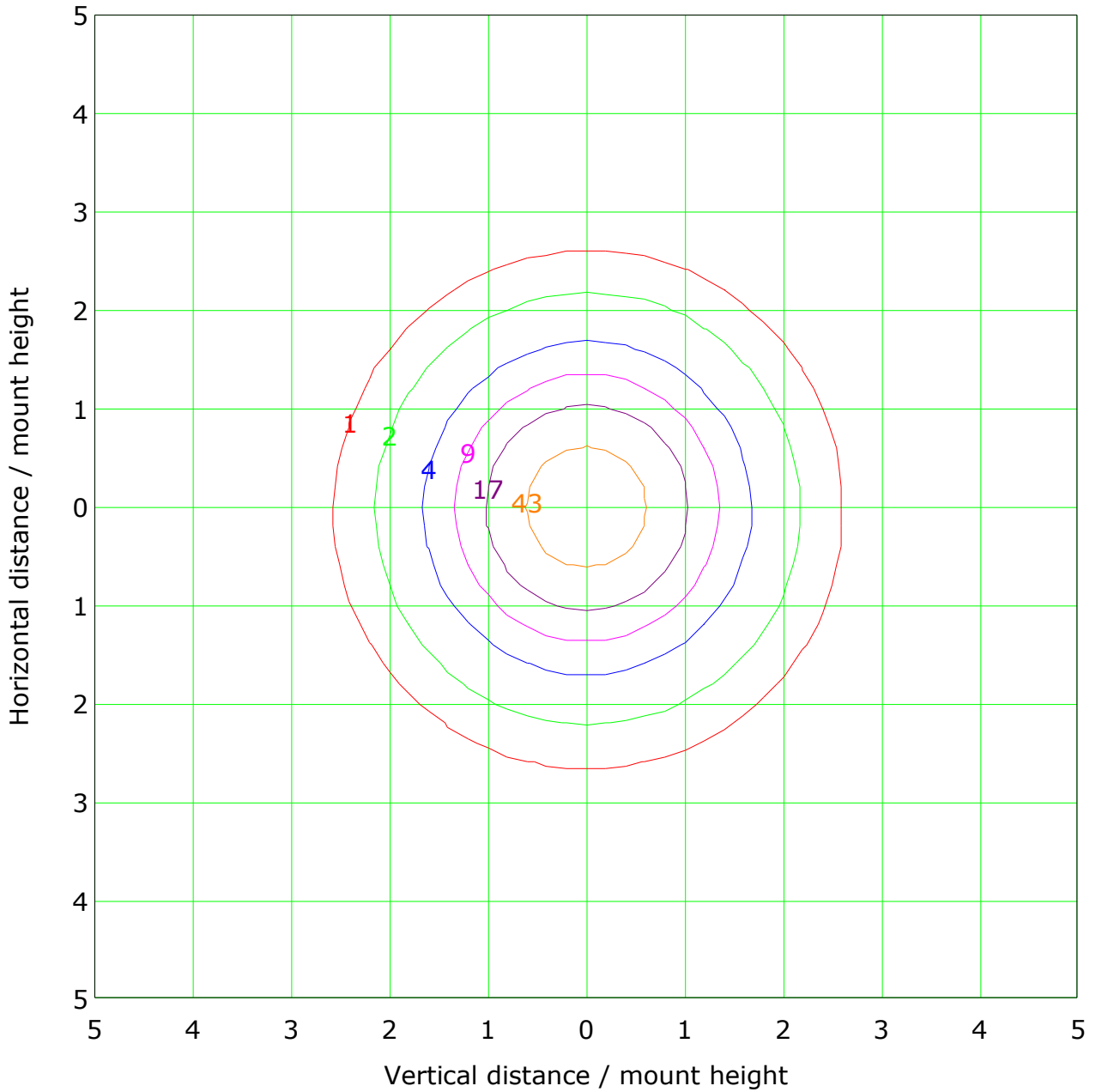
- |                   |                   |
|-------------------|-------------------|
| — ( 10%): 854 cd  | — ( 16%): 1366 cd |
| — ( 25%): 2134 cd | — ( 40%): 3415 cd |
| — ( 63%): 5378 cd | — (100%): 8537 cd |

C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 28.8 'C  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-3000  
Distance: 14.040 m [K=1.0000]  
Humidity:  
Inspector:



## IsoLux Plot



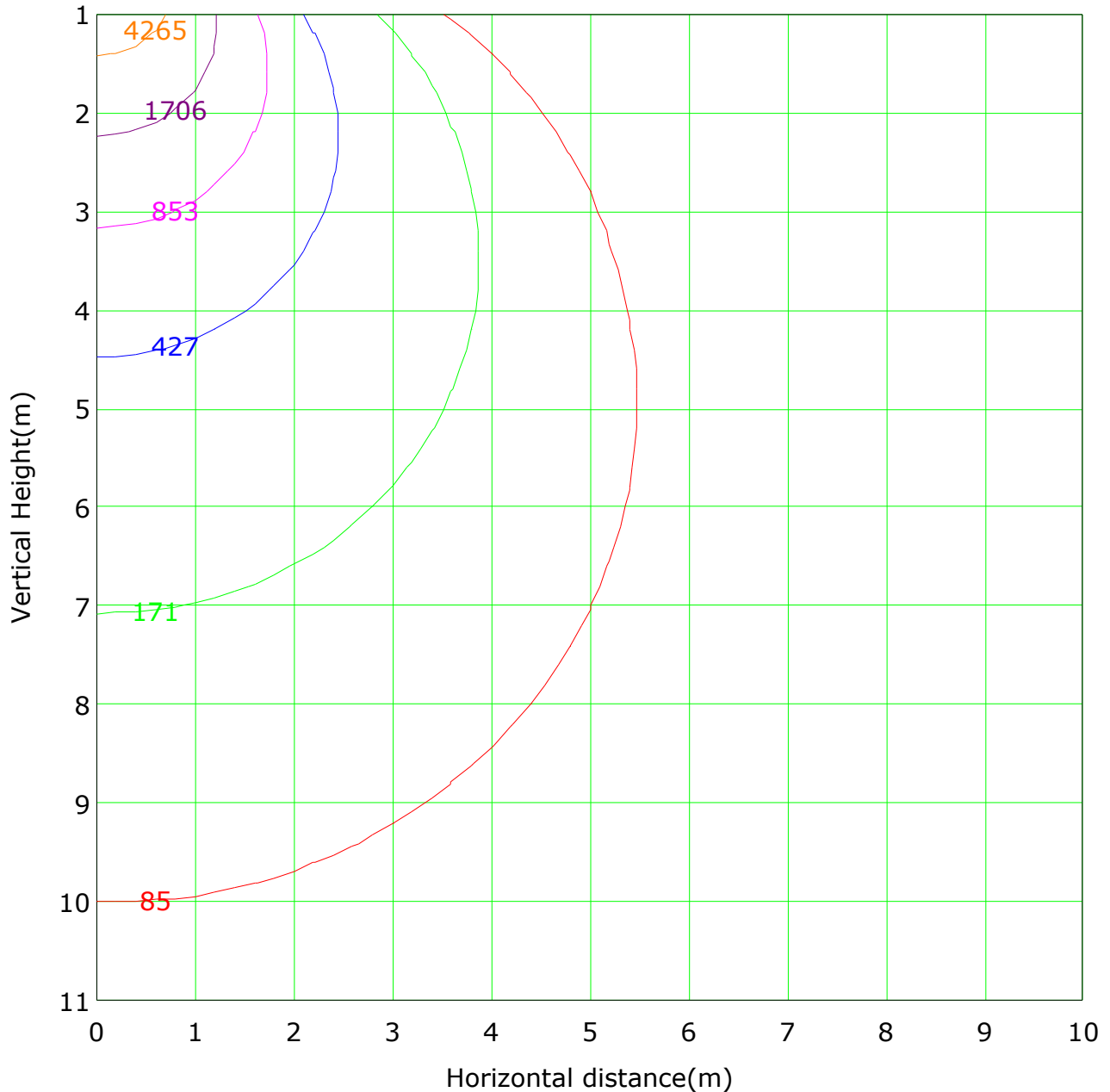
Mounting Height: 10.0m		Max Lux(100%): 85.3 lx	
— ( 1%):	0.9 lx	— ( 2%):	1.7 lx
— ( 5%):	4.3 lx	— ( 10%):	8.5 lx
— ( 20%):	17.1 lx	— ( 50%):	42.7 lx
— (100%):	85.3 lx		

C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 28.8 'C  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-3000  
Distance: 14.040 m [K=1.0000]  
Humidity:  
Inspector:



## Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 8530.2 lx  
— ( 1%): 85.3 lx — ( 2%): 170.6 lx  
— ( 5%): 426.5 lx — ( 10%): 853.0 lx  
— ( 20%): 1706.0 lx — ( 50%): 4265.1 lx  
— (100%): 8530.2 lx

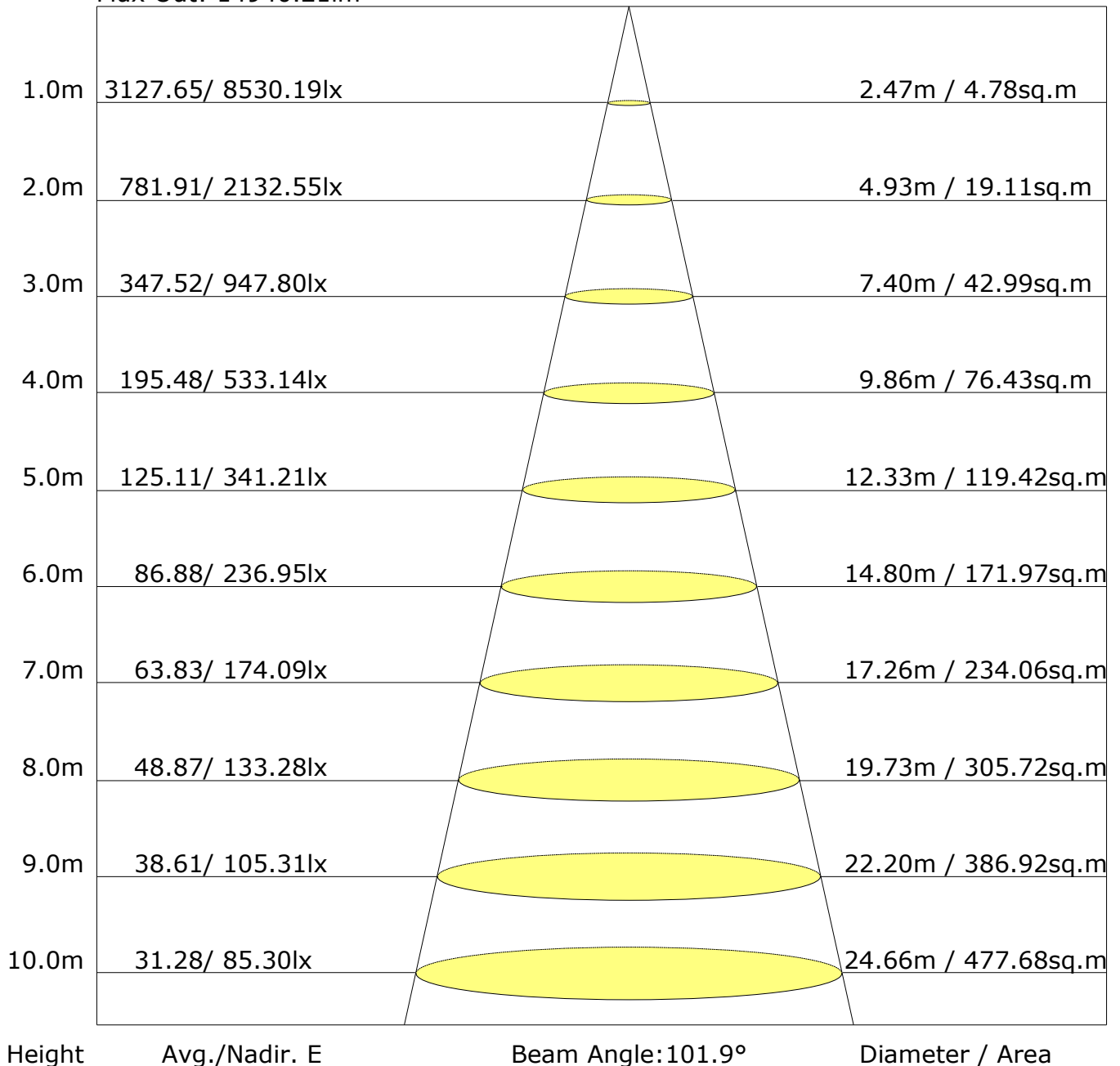
C Plane (°): 0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature: 28.8 'C  
Operator:

Gamma Plane (°): 0.0-180.0: 1.0  
Test Device: GPM-3000  
Distance: 14.040 m [K=1.0000]  
Humidity:  
Inspector:



## The Average Illuminance Effective Figure

Flux Out: 14940.21lm



C Plane (°):0.0-360.0: 22.5  
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 Operator:

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 Test Device: GPM-3000  
 Distance: 14.040 m [K=1.0000]  
 Humidity:  
 Inspector:



## UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/-1.\$					-1.\$/-1.\$				
S=1.5H	-1.\$/-1.\$					-1.\$/-1.\$				
S=2.0H	-1.\$/-1.\$					-1.\$/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 21946lm ( $8\log(F/F_0) = 10.7$ ).

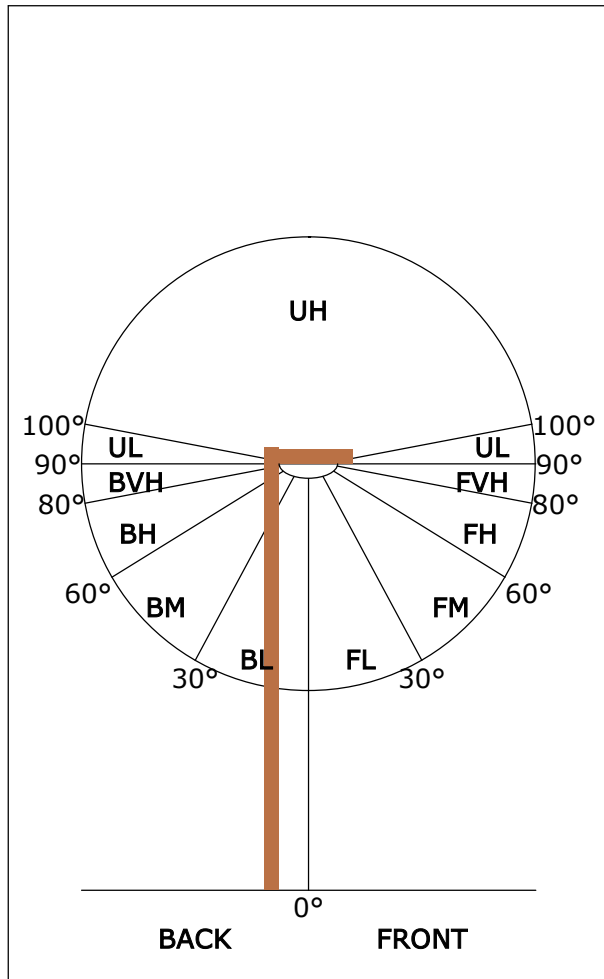
C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 28.8 °C  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-3000  
 Distance: 14.040 m [K=1.0000]  
 Humidity:  
 Inspector:





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



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	11067	50.4
FL ( 0°-30°)	3285	15.0
FM (30°-60°)	5767	26.3
FH (60°-80°)	1853	8.4
FVH (80°-90°)	161	0.7
BACK LIGHT	10743	49.0
BL ( 0°-30°)	3265	14.9
BM (30°-60°)	5621	25.6
BH (60°-80°)	1730	7.9
BVH (80°-90°)	127	0.6
UP LIGHT	136	0.6
UL (90°-100°)	21	0.1
UH (100°-180°)	115	0.5
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-11	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B4 U3 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B4 U3 G2

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 28.8 'C  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-3000  
 Distance: 14.040 m [K=1.0000]  
 Humidity:  
 Inspector:



## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	8528.7	8.2	8.2	0.04	0.04
1.0-2.0	8525.4	24.5	32.6	0.11	0.15
2.0-3.0	8519.6	40.8	73.4	0.19	0.33
3.0-4.0	8511.0	57.0	130.4	0.26	0.59
4.0-5.0	8499.5	73.1	203.5	0.33	0.93
5.0-6.0	8483.3	89.2	292.7	0.41	1.33
6.0-7.0	8462.0	105.0	397.7	0.48	1.81
7.0-8.0	8435.3	120.7	518.4	0.55	2.36
8.0-9.0	8406.1	136.3	654.7	0.62	2.98
9.0-10.0	8374.7	151.6	806.3	0.69	3.67
10.0-11.0	8340.3	166.7	972.9	0.76	4.43
11.0-12.0	8304.2	181.6	1154.5	0.83	5.26
12.0-13.0	8265.0	196.2	1350.7	0.89	6.15
13.0-14.0	8220.8	210.5	1561.1	0.96	7.11
14.0-15.0	8173.8	224.4	1785.5	1.02	8.14
15.0-16.0	8125.1	238.1	2023.7	1.09	9.22
16.0-17.0	8072.2	251.4	2275.1	1.15	10.37
17.0-18.0	8016.0	264.3	2539.4	1.20	11.57
18.0-19.0	7956.2	276.8	2816.2	1.26	12.83
19.0-20.0	7892.3	288.9	3105.1	1.32	14.15
20.0-21.0	7825.0	300.5	3405.7	1.37	15.52
21.0-22.0	7754.5	311.7	3717.3	1.42	16.94
22.0-23.0	7681.4	322.4	4039.7	1.47	18.41
23.0-24.0	7604.9	332.5	4372.2	1.52	19.92
24.0-25.0	7524.5	342.2	4714.4	1.56	21.48
25.0-26.0	7439.3	351.2	5065.6	1.60	23.08
26.0-27.0	7351.4	359.7	5425.3	1.64	24.72
27.0-28.0	7261.7	367.7	5793.0	1.68	26.40
28.0-29.0	7168.5	375.1	6168.1	1.71	28.11
29.0-30.0	7069.8	381.8	6549.9	1.74	29.85
30.0-31.0	6967.9	387.8	6937.7	1.77	31.61
31.0-32.0	6863.7	393.3	7331.0	1.79	33.40
32.0-33.0	6755.5	398.0	7729.0	1.81	35.22
33.0-34.0	6645.8	402.2	8131.2	1.83	37.05
34.0-35.0	6533.0	405.8	8537.0	1.85	38.90
35.0-36.0	6415.2	408.5	8945.5	1.86	40.76

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 Distance: 14.040 m [K=1.0000]  
 Humidity:  
 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	6295.0	410.6	9356.2	1.87	42.63
37.0-38.0	6172.9	412.1	9768.2	1.88	44.51
38.0-39.0	6047.6	412.8	10181.1	1.88	46.39
39.0-40.0	5919.4	412.9	10594.0	1.88	48.27
40.0-41.0	5788.9	412.3	11006.3	1.88	50.15
41.0-42.0	5655.2	410.9	11417.2	1.87	52.02
42.0-43.0	5520.4	409.0	11826.2	1.86	53.89
43.0-44.0	5384.8	406.5	12232.7	1.85	55.74
44.0-45.0	5246.9	403.3	12635.9	1.84	57.58
45.0-46.0	5107.2	399.5	13035.4	1.82	59.40
46.0-47.0	4965.7	395.0	13430.4	1.80	61.20
47.0-48.0	4824.9	390.1	13820.5	1.78	62.98
48.0-49.0	4682.7	384.6	14205.1	1.75	64.73
49.0-50.0	4539.6	378.5	14583.6	1.72	66.45
50.0-51.0	4397.0	372.1	14955.7	1.70	68.15
51.0-52.0	4253.7	365.1	15320.8	1.66	69.81
52.0-53.0	4110.2	357.6	15678.3	1.63	71.44
53.0-54.0	3966.7	349.7	16028.0	1.59	73.03
54.0-55.0	3823.5	341.3	16369.4	1.56	74.59
55.0-56.0	3679.7	332.5	16701.9	1.52	76.11
56.0-57.0	3536.8	323.4	17025.3	1.47	77.58
57.0-58.0	3395.4	314.0	17339.4	1.43	79.01
58.0-59.0	3256.5	304.5	17643.9	1.39	80.40
59.0-60.0	3118.4	294.7	17938.5	1.34	81.74
60.0-61.0	2979.5	284.4	18222.9	1.30	83.04
61.0-62.0	2841.2	273.8	18496.7	1.25	84.28
62.0-63.0	2704.8	263.1	18759.8	1.20	85.48
63.0-64.0	2570.5	252.3	19012.1	1.15	86.63
64.0-65.0	2438.0	241.3	19253.4	1.10	87.73
65.0-66.0	2307.4	230.3	19483.6	1.05	88.78
66.0-67.0	2178.5	219.1	19702.7	1.00	89.78
67.0-68.0	2050.3	207.7	19910.4	0.95	90.73
68.0-69.0	1922.6	196.2	20106.6	0.89	91.62
69.0-70.0	1798.3	184.7	20291.3	0.84	92.46
70.0-71.0	1677.3	173.4	20464.7	0.79	93.25
71.0-72.0	1557.8	162.0	20626.7	0.74	93.99

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 Distance: 14.040 m [K=1.0000]  
 Humidity:  
 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	1439.9	150.6	20777.3	0.69	94.68
73.0-74.0	1323.9	139.2	20916.5	0.63	95.31
74.0-75.0	1210.0	127.9	21044.4	0.58	95.89
75.0-76.0	1099.5	116.7	21161.1	0.53	96.42
76.0-77.0	993.5	105.9	21267.0	0.48	96.91
77.0-78.0	888.7	95.1	21362.2	0.43	97.34
78.0-79.0	787.6	84.6	21446.8	0.39	97.73
79.0-80.0	690.3	74.4	21521.2	0.34	98.07
80.0-81.0	595.0	64.4	21585.6	0.29	98.36
81.0-82.0	505.4	54.8	21640.4	0.25	98.61
82.0-83.0	422.7	46.0	21686.4	0.21	98.82
83.0-84.0	345.1	37.6	21723.9	0.17	98.99
84.0-85.0	271.0	29.6	21753.5	0.13	99.12
85.0-86.0	201.8	22.1	21775.6	0.10	99.22
86.0-87.0	139.8	15.3	21790.9	0.07	99.29
87.0-88.0	89.3	9.8	21800.7	0.04	99.34
88.0-89.0	52.2	5.7	21806.4	0.03	99.37
89.0-90.0	30.0	3.3	21809.7	0.01	99.38
90.0-91.0	21.3	2.3	21812.0	0.01	99.39
91.0-92.0	20.0	2.2	21814.2	0.01	99.40
92.0-93.0	20.0	2.2	21816.4	0.01	99.41
93.0-94.0	19.2	2.1	21818.5	0.01	99.42
94.0-95.0	18.4	2.0	21820.5	0.01	99.43
95.0-96.0	18.4	2.0	21822.5	0.01	99.44
96.0-97.0	18.7	2.0	21824.6	0.01	99.45
97.0-98.0	17.6	1.9	21826.5	0.01	99.46
98.0-99.0	17.6	1.9	21828.4	0.01	99.47
99.0-100.0	18.5	2.0	21830.4	0.01	99.47
100.0-101.0	17.9	1.9	21832.3	0.01	99.48
101.0-102.0	18.4	2.0	21834.3	0.01	99.49
102.0-103.0	19.3	2.1	21836.4	0.01	99.50
103.0-104.0	19.0	2.0	21838.4	0.01	99.51
104.0-105.0	18.8	2.0	21840.4	0.01	99.52
105.0-106.0	18.6	2.0	21842.4	0.01	99.53
106.0-107.0	18.8	2.0	21844.3	0.01	99.54
107.0-108.0	19.2	2.0	21846.3	0.01	99.55

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 Humidity:  
 Inspector:



### Zonal Lumen (Continue 3)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	19.0	2.0	21848.3	0.01	99.56
109.0-110.0	19.0	2.0	21850.3	0.01	99.57
110.0-111.0	18.7	1.9	21852.2	0.01	99.57
111.0-112.0	18.7	1.9	21854.1	0.01	99.58
112.0-113.0	19.1	1.9	21856.0	0.01	99.59
113.0-114.0	19.4	2.0	21858.0	0.01	99.60
114.0-115.0	19.3	1.9	21859.9	0.01	99.61
115.0-116.0	19.4	1.9	21861.8	0.01	99.62
116.0-117.0	19.5	1.9	21863.8	0.01	99.63
117.0-118.0	19.4	1.9	21865.6	0.01	99.64
118.0-119.0	19.8	1.9	21867.6	0.01	99.64
119.0-120.0	20.4	2.0	21869.5	0.01	99.65
120.0-121.0	20.3	1.9	21871.4	0.01	99.66
121.0-122.0	19.6	1.8	21873.3	0.01	99.67
122.0-123.0	20.3	1.9	21875.1	0.01	99.68
123.0-124.0	20.5	1.9	21877.0	0.01	99.69
124.0-125.0	20.5	1.9	21878.9	0.01	99.70
125.0-126.0	20.7	1.8	21880.7	0.01	99.70
126.0-127.0	20.7	1.8	21882.5	0.01	99.71
127.0-128.0	20.9	1.8	21884.4	0.01	99.72
128.0-129.0	20.6	1.8	21886.1	0.01	99.73
129.0-130.0	21.8	1.8	21888.0	0.01	99.74
130.0-131.0	22.6	1.9	21889.9	0.01	99.75
131.0-132.0	21.9	1.8	21891.7	0.01	99.75
132.0-133.0	21.7	1.8	21893.4	0.01	99.76
133.0-134.0	22.3	1.8	21895.2	0.01	99.77
134.0-135.0	22.3	1.7	21896.9	0.01	99.78
135.0-136.0	22.9	1.8	21898.7	0.01	99.79
136.0-137.0	23.5	1.8	21900.5	0.01	99.79
137.0-138.0	23.8	1.8	21902.2	0.01	99.80
138.0-139.0	24.1	1.8	21904.0	0.01	99.81
139.0-140.0	24.3	1.7	21905.7	0.01	99.82
140.0-141.0	24.2	1.7	21907.4	0.01	99.83
141.0-142.0	24.9	1.7	21909.1	0.01	99.83
142.0-143.0	25.5	1.7	21910.8	0.01	99.84
143.0-144.0	25.8	1.7	21912.5	0.01	99.85

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 28.8 °C  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-3000  
 Distance: 14.040 m [K=1.0000]  
 Humidity:  
 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	26.4	1.7	21914.2	0.01	99.86
145.0-146.0	26.1	1.6	21915.8	0.01	99.86
146.0-147.0	26.0	1.6	21917.3	0.01	99.87
147.0-148.0	25.5	1.5	21918.8	0.01	99.88
148.0-149.0	25.6	1.5	21920.3	0.01	99.88
149.0-150.0	27.0	1.5	21921.8	0.01	99.89
150.0-151.0	27.6	1.5	21923.3	0.01	99.90
151.0-152.0	27.8	1.5	21924.8	0.01	99.90
152.0-153.0	27.4	1.4	21926.1	0.01	99.91
153.0-154.0	27.4	1.3	21927.5	0.01	99.92
154.0-155.0	27.6	1.3	21928.8	0.01	99.92
155.0-156.0	27.5	1.2	21930.0	0.01	99.93
156.0-157.0	28.1	1.2	21931.3	0.01	99.93
157.0-158.0	28.4	1.2	21932.5	0.01	99.94
158.0-159.0	28.2	1.1	21933.6	0.01	99.94
159.0-160.0	28.4	1.1	21934.7	0.00	99.95
160.0-161.0	28.7	1.1	21935.7	0.00	99.95
161.0-162.0	29.0	1.0	21936.7	0.00	99.96
162.0-163.0	29.1	1.0	21937.7	0.00	99.96
163.0-164.0	28.4	0.9	21938.6	0.00	99.97
164.0-165.0	28.4	0.8	21939.4	0.00	99.97
165.0-166.0	29.1	0.8	21940.2	0.00	99.97
166.0-167.0	29.0	0.7	21941.0	0.00	99.98
167.0-168.0	29.1	0.7	21941.7	0.00	99.98
168.0-169.0	29.7	0.6	21942.3	0.00	99.98
169.0-170.0	29.1	0.6	21942.9	0.00	99.99
170.0-171.0	29.2	0.5	21943.4	0.00	99.99
171.0-172.0	30.6	0.5	21943.9	0.00	99.99
172.0-173.0	30.6	0.4	21944.3	0.00	99.99
173.0-174.0	30.1	0.4	21944.7	0.00	100.00
174.0-175.0	29.9	0.3	21945.0	0.00	100.00
175.0-176.0	29.5	0.3	21945.3	0.00	100.00
176.0-177.0	29.2	0.2	21945.5	0.00	100.00
177.0-178.0	29.1	0.1	21945.6	0.00	100.00
178.0-179.0	29.0	0.1	21945.7	0.00	100.00
179.0-180.0	28.9	0.0	21945.7	0.00	100.00

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 28.8 'C  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-3000  
 Distance: 14.040 m [K=1.0000]  
 Humidity:  
 Inspector: