

Report No.:

Test Time: 2020-12-3 11:33

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 0.937 A
Power Factor: 0.926

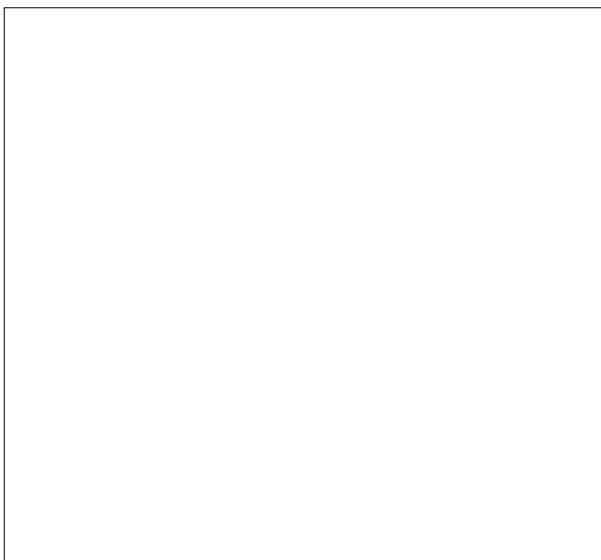
Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 277.0 V
Power: 240.46 W

Photometric Results

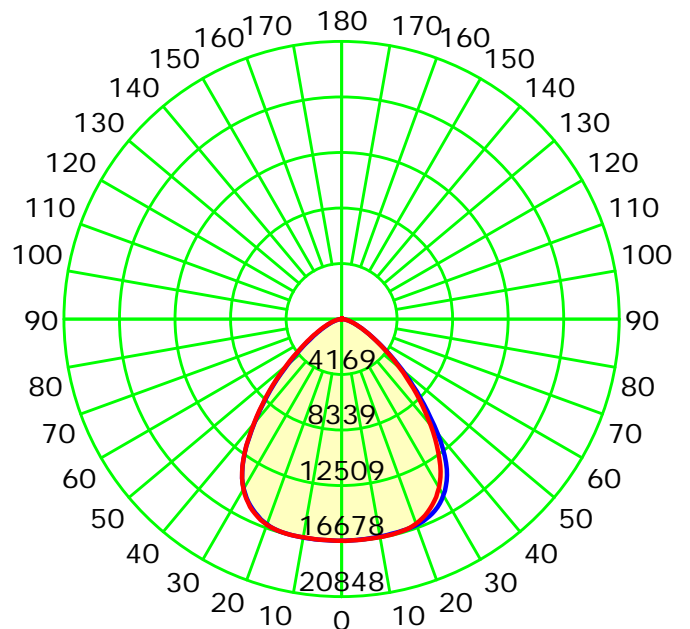
CIE Class: Direct
Measurement Flux: 33732.5 lm
Downward Ratio: 99%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 128.4, 129.4, 128.6, 129.3
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 88.5, 88.0, 87.7, 87.8
Luminaire Efficacy Rating (LER): 140.33
Max. Intensity: 16678.67 cd
S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 33732.5 lm
Efficiency: 100%
Upward Ratio: 1%
C0r0 Intensity: 16646.72 cd
Pos of Max. Intensity: H202.5 V11
S/MH(C90/C270): 1.27

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

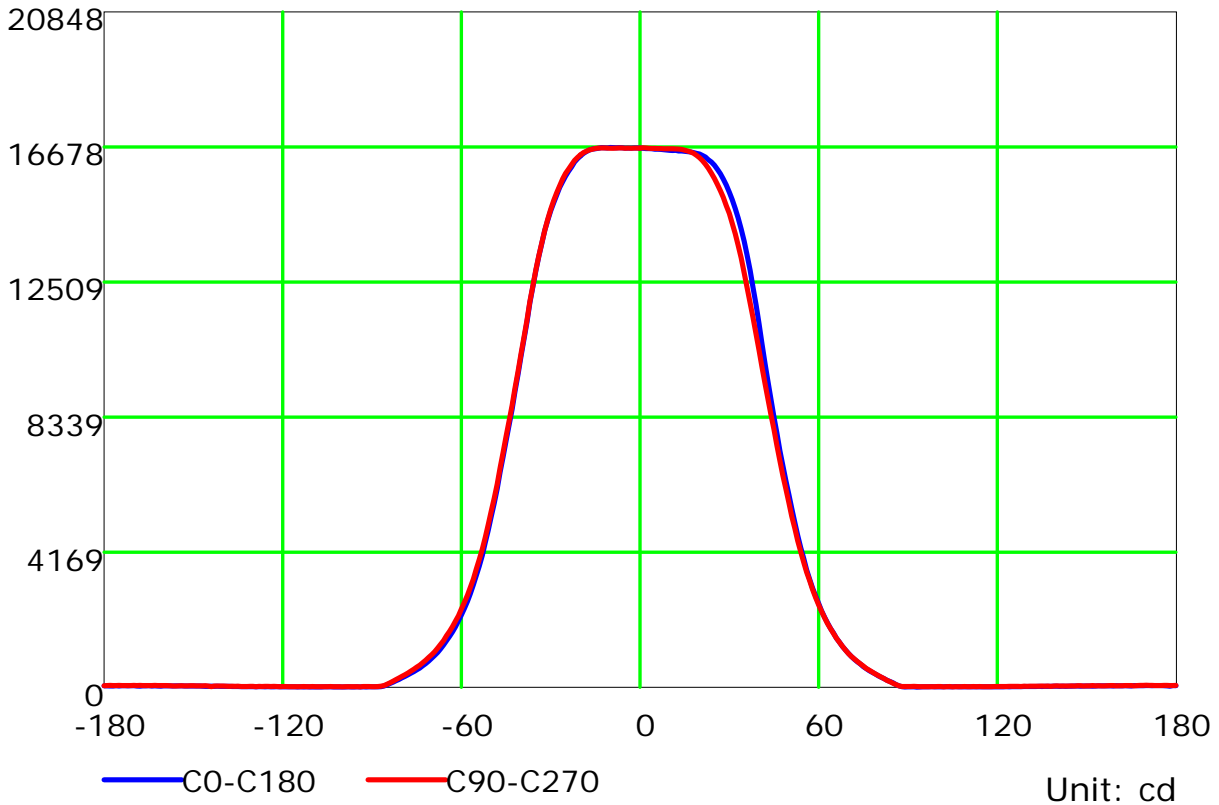
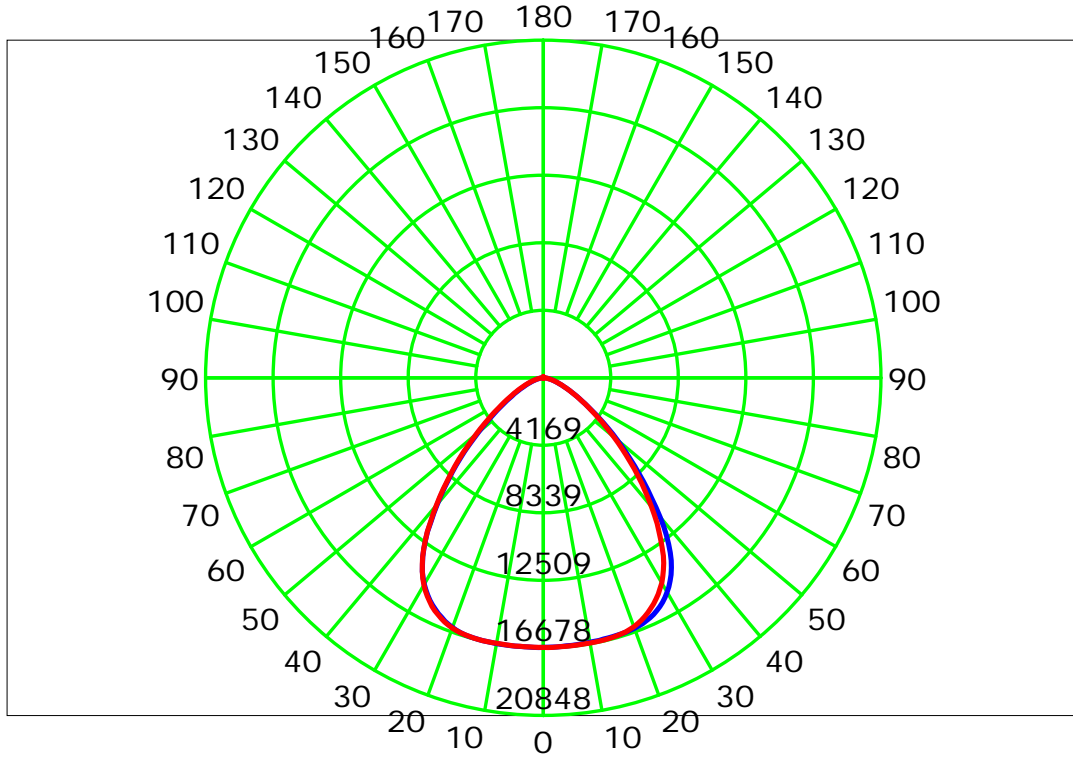
Average Diffuse Angle(50%): 88.2°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 24.9 °C
Operator:

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

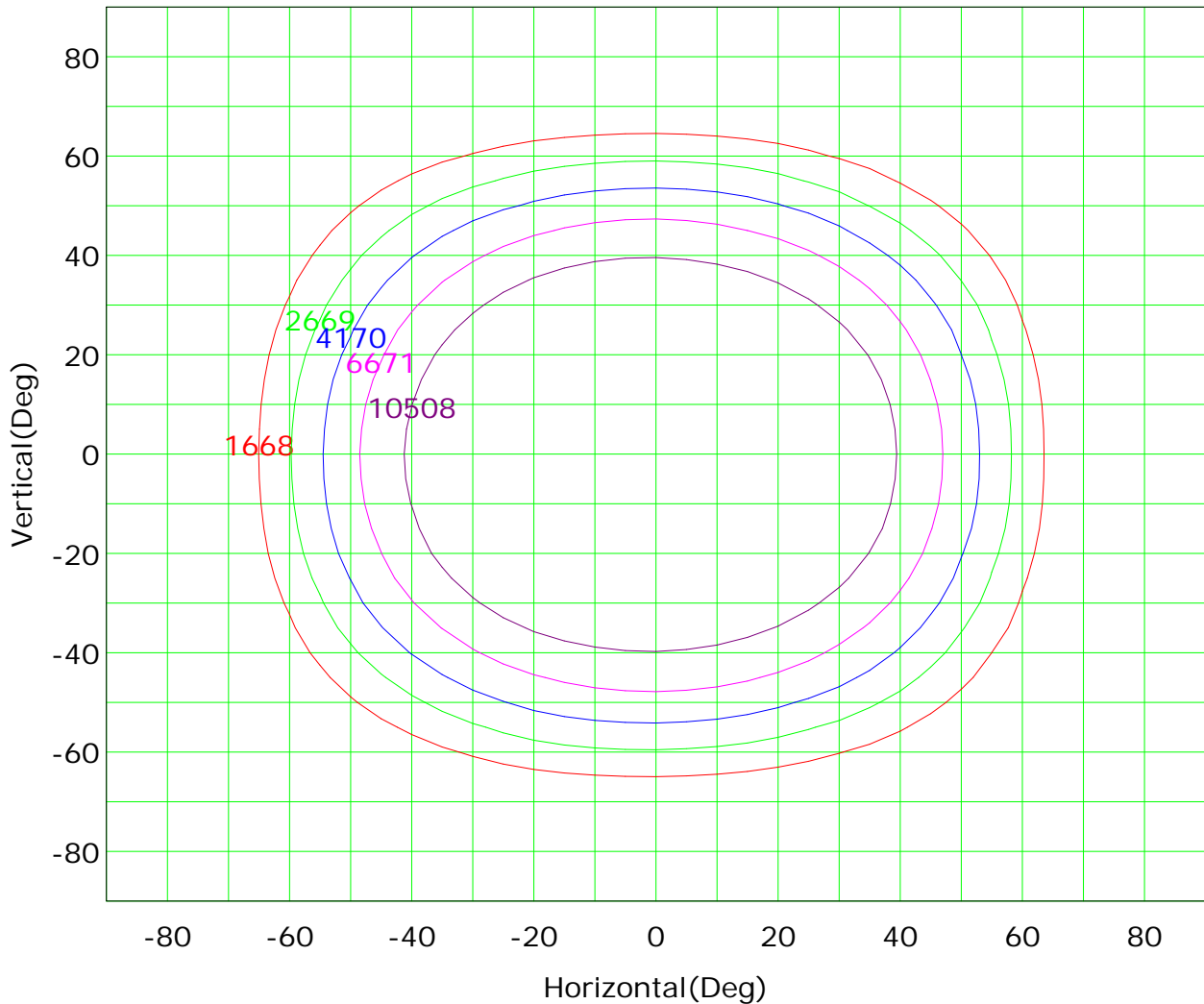
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 24.9 °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)



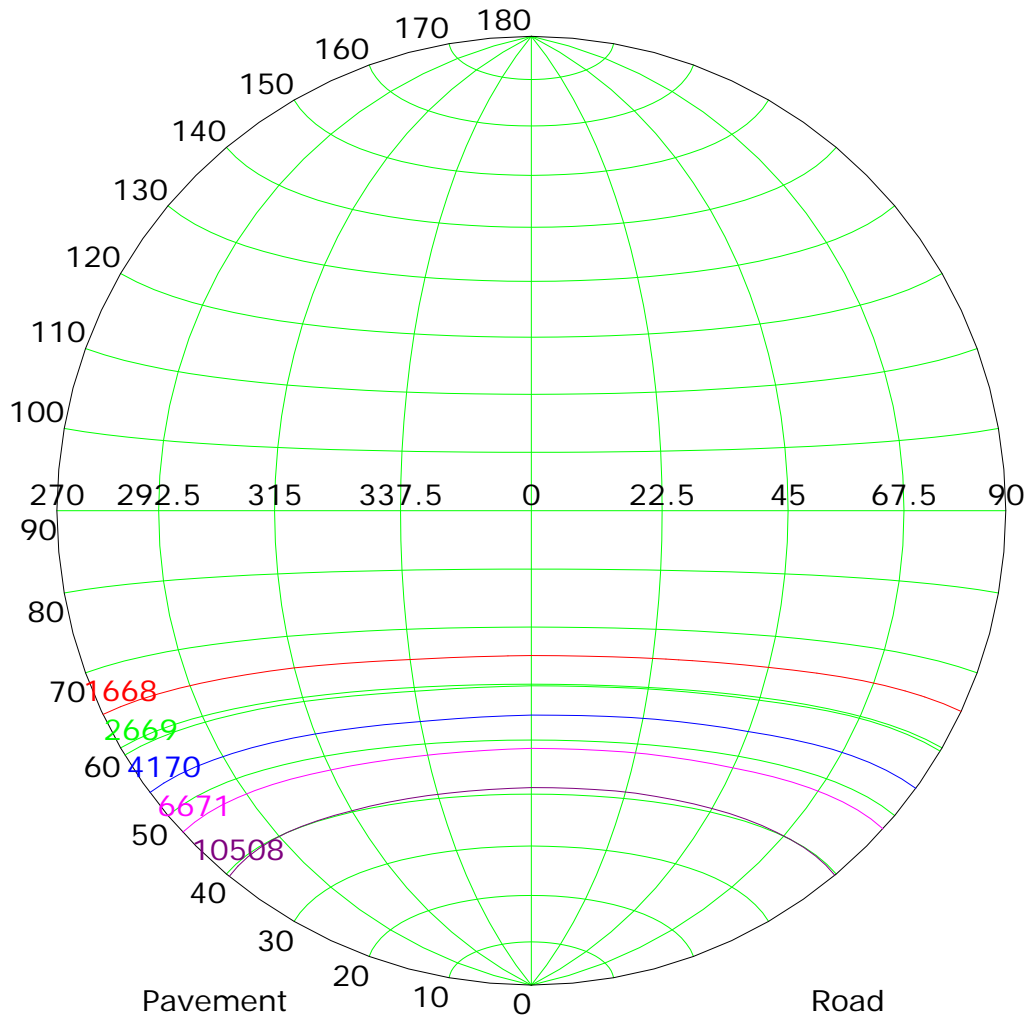
Imax (100%): 16679 cd

- | | |
|--------------------|--------------------|
| — (10%): 1668 cd | — (16%): 2669 cd |
| — (25%): 4170 cd | — (40%): 6671 cd |
| — (63%): 10508 cd | — (100%): 16679 cd |

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 24.9 '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)



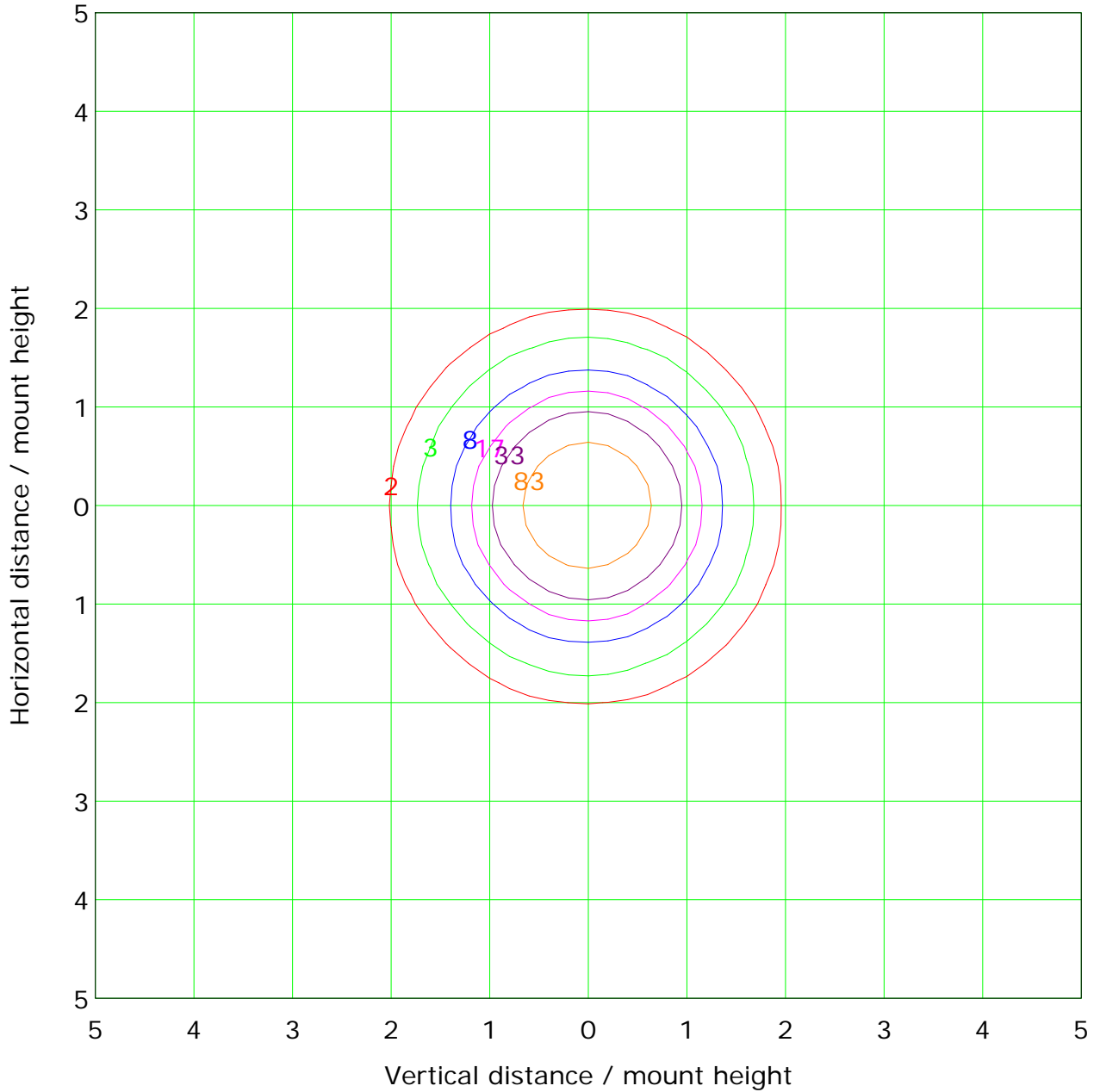
Imax (100%): 16679 cd

- | | |
|--------------------|--------------------|
| — (10%): 1668 cd | — (16%): 2669 cd |
| — (25%): 4170 cd | — (40%): 6671 cd |
| — (63%): 10508 cd | — (100%): 16679 cd |

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 24.9 '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

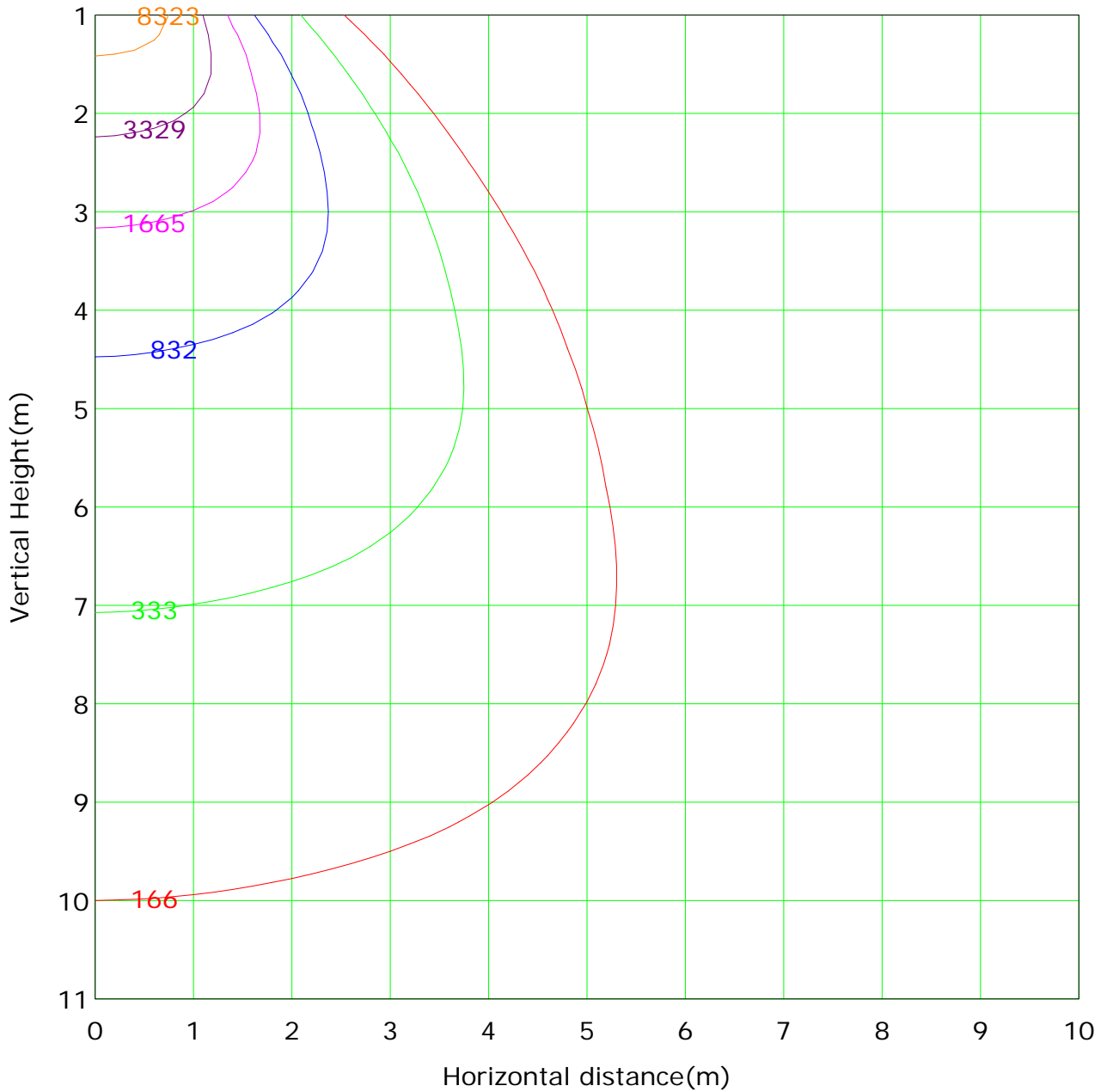


Mounting Height: 10.0m		Max Lux(100%): 166.6 lx
— (1%):	1.7 lx	— (2%): 3.3 lx
— (5%):	8.3 lx	— (10%): 16.7 lx
— (20%):	33.3 lx	— (50%): 83.3 lx
— (100%):	166.6 lx	

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 24.9 '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



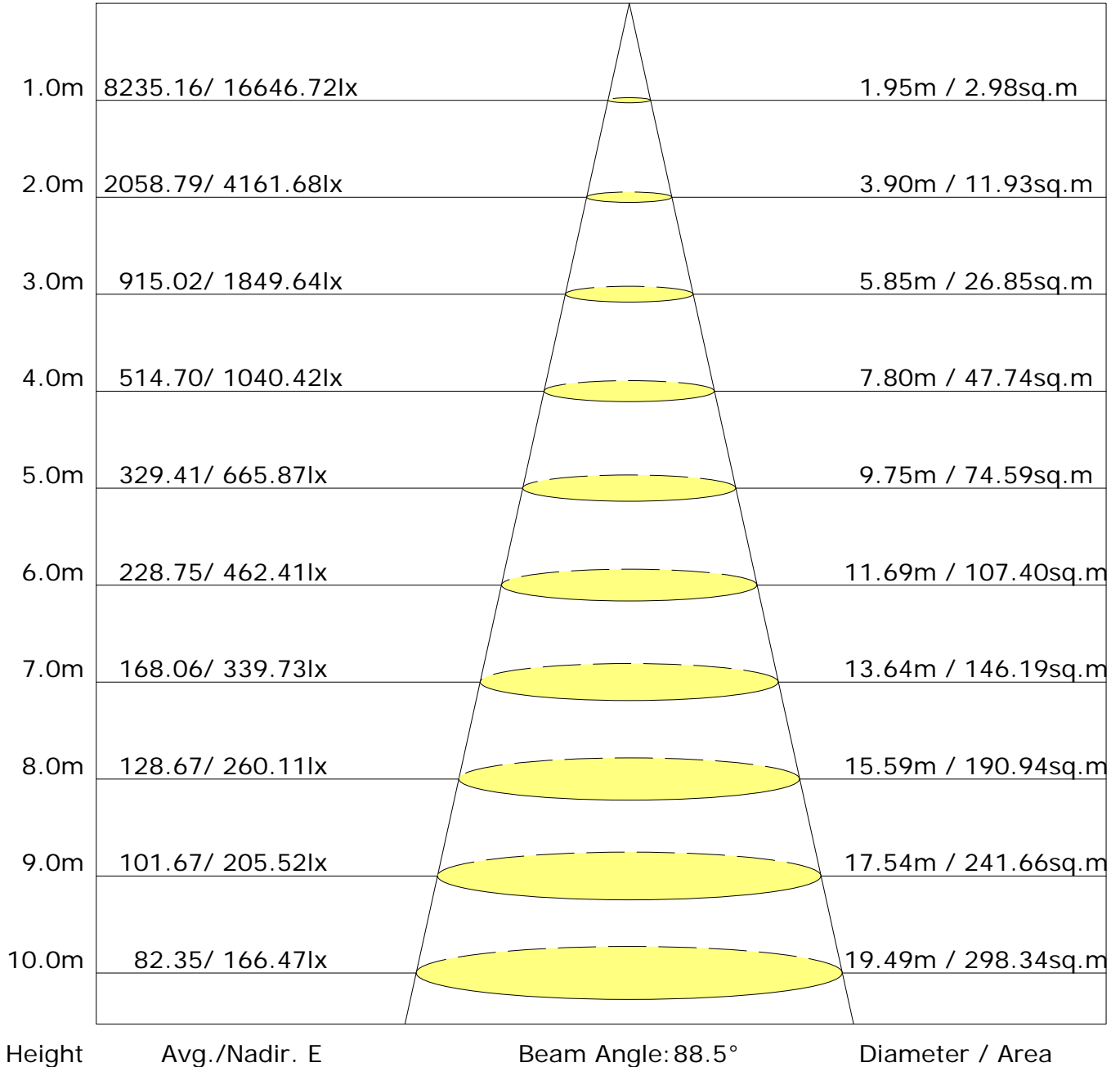
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 16646.7 lx
 (1%): 166.5 lx (2%): 332.9 lx
 (5%): 832.3 lx (10%): 1664.7 lx
 (20%): 3329.3 lx (50%): 8323.4 lx
 (100%): 16646.7 lx

C Plane (°): 0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 24.9 °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

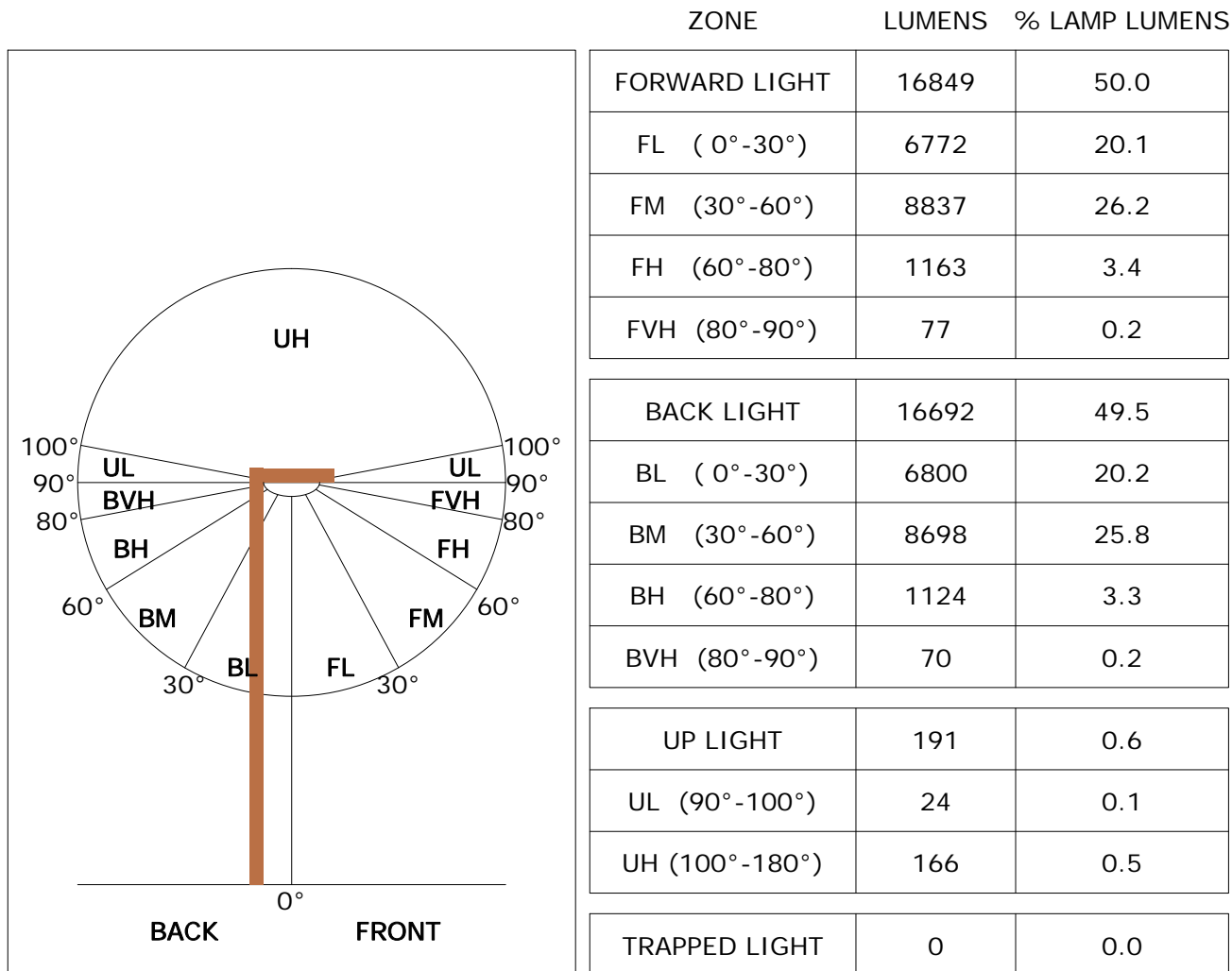
Flux Out: 24569.17lm



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 24.9 °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



BUG(Backlight,Uplight,Glare) Rating Base On TM-15-11	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B5 U3 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B5 U3 G1

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 24.9 °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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	16647.3	15.9	15.9	0.05	0.05
1.0-2.0	16646.6	47.8	63.7	0.14	0.19
2.0-3.0	16642.6	79.6	143.3	0.24	0.42
3.0-4.0	16637.9	111.4	254.7	0.33	0.76
4.0-5.0	16634.1	143.1	397.8	0.42	1.18
5.0-6.0	16631.0	174.8	572.6	0.52	1.70
6.0-7.0	16628.4	206.4	779.1	0.61	2.31
7.0-8.0	16626.0	238.0	1017.0	0.71	3.01
8.0-9.0	16623.5	269.4	1286.5	0.80	3.81
9.0-10.0	16622.5	300.9	1587.3	0.89	4.71
10.0-11.0	16623.5	332.2	1919.5	0.98	5.69
11.0-12.0	16623.7	363.4	2283.0	1.08	6.77
12.0-13.0	16622.9	394.5	2677.5	1.17	7.94
13.0-14.0	16618.8	425.4	3103.0	1.26	9.20
14.0-15.0	16608.9	456.0	3559.0	1.35	10.55
15.0-16.0	16593.7	486.3	4045.3	1.44	11.99
16.0-17.0	16572.5	516.2	4561.4	1.53	13.52
17.0-18.0	16541.6	545.5	5106.9	1.62	15.14
18.0-19.0	16499.8	574.1	5681.0	1.70	16.84
19.0-20.0	16445.9	602.0	6283.0	1.78	18.63
20.0-21.0	16377.6	629.0	6912.0	1.86	20.49
21.0-22.0	16296.1	655.0	7567.0	1.94	22.43
22.0-23.0	16196.6	679.7	8246.7	2.01	24.45
23.0-24.0	16078.3	703.1	8949.7	2.08	26.53
24.0-25.0	15945.4	725.1	9674.8	2.15	28.68
25.0-26.0	15794.5	745.7	10420.5	2.21	30.89
26.0-27.0	15623.1	764.4	11184.9	2.27	33.16
27.0-28.0	15433.5	781.5	11966.4	2.32	35.47
28.0-29.0	15223.1	796.6	12763.0	2.36	37.84
29.0-30.0	14987.8	809.3	13572.3	2.40	40.24
30.0-31.0	14727.3	819.7	14392.0	2.43	42.67
31.0-32.0	14433.4	827.0	15219.0	2.45	45.12
32.0-33.0	14102.7	830.9	16050.0	2.46	47.58
33.0-34.0	13734.5	831.3	16881.2	2.46	50.04
34.0-35.0	13322.9	827.5	17708.8	2.45	52.50
35.0-36.0	12866.4	819.3	18528.1	2.43	54.93

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 24.9 °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 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	12377.7	807.4	19335.5	2.39	57.32
37.0-38.0	11861.5	791.8	20127.3	2.35	59.67
38.0-39.0	11319.9	772.8	20900.1	2.29	61.96
39.0-40.0	10764.5	750.9	21650.9	2.23	64.18
40.0-41.0	10205.7	726.8	22377.8	2.15	66.34
41.0-42.0	9655.1	701.6	23079.4	2.08	68.42
42.0-43.0	9119.1	675.6	23755.0	2.00	70.42
43.0-44.0	8602.0	649.3	24404.3	1.92	72.35
44.0-45.0	8094.1	622.1	25026.4	1.84	74.19
45.0-46.0	7601.2	594.5	25620.9	1.76	75.95
46.0-47.0	7121.4	566.5	26187.4	1.68	77.63
47.0-48.0	6650.2	537.7	26725.1	1.59	79.23
48.0-49.0	6197.9	509.0	27234.1	1.51	80.74
49.0-50.0	5762.9	480.5	27714.7	1.42	82.16
50.0-51.0	5341.9	452.0	28166.7	1.34	83.50
51.0-52.0	4940.1	424.0	28590.7	1.26	84.76
52.0-53.0	4564.5	397.1	28987.8	1.18	85.93
53.0-54.0	4209.8	371.1	29358.9	1.10	87.03
54.0-55.0	3877.3	346.2	29705.0	1.03	88.06
55.0-56.0	3568.0	322.5	30027.5	0.96	89.02
56.0-57.0	3282.8	300.2	30327.7	0.89	89.91
57.0-58.0	3020.3	279.3	30607.0	0.83	90.73
58.0-59.0	2777.6	259.7	30866.7	0.77	91.50
59.0-60.0	2553.6	241.3	31108.0	0.72	92.22
60.0-61.0	2346.3	223.9	31331.9	0.66	92.88
61.0-62.0	2154.3	207.6	31539.6	0.62	93.50
62.0-63.0	1976.1	192.2	31731.8	0.57	94.07
63.0-64.0	1812.8	177.9	31909.7	0.53	94.60
64.0-65.0	1663.2	164.6	32074.3	0.49	95.08
65.0-66.0	1523.2	152.0	32226.3	0.45	95.53
66.0-67.0	1391.8	140.0	32366.3	0.41	95.95
67.0-68.0	1269.0	128.6	32494.8	0.38	96.33
68.0-69.0	1156.2	118.0	32612.8	0.35	96.68
69.0-70.0	1054.5	108.3	32721.1	0.32	97.00
70.0-71.0	961.4	99.4	32820.5	0.29	97.30
71.0-72.0	875.5	91.0	32911.6	0.27	97.57

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 24.9 °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 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	796.4	83.3	32994.8	0.25	97.81
73.0-74.0	723.1	76.0	33070.9	0.23	98.04
74.0-75.0	654.1	69.1	33140.0	0.20	98.24
75.0-76.0	590.3	62.7	33202.7	0.19	98.43
76.0-77.0	531.1	56.6	33259.3	0.17	98.60
77.0-78.0	474.9	50.8	33310.1	0.15	98.75
78.0-79.0	421.3	45.3	33355.4	0.13	98.88
79.0-80.0	369.4	39.8	33395.2	0.12	99.00
80.0-81.0	319.3	34.5	33429.8	0.10	99.10
81.0-82.0	271.2	29.4	33459.2	0.09	99.19
82.0-83.0	223.6	24.3	33483.5	0.07	99.26
83.0-84.0	177.1	19.3	33502.8	0.06	99.32
84.0-85.0	131.8	14.4	33517.2	0.04	99.36
85.0-86.0	88.6	9.7	33526.9	0.03	99.39
86.0-87.0	53.7	5.9	33532.7	0.02	99.41
87.0-88.0	32.6	3.6	33536.3	0.01	99.42
88.0-89.0	24.7	2.7	33539.0	0.01	99.43
89.0-90.0	23.6	2.6	33541.6	0.01	99.43
90.0-91.0	23.6	2.6	33544.2	0.01	99.44
91.0-92.0	23.4	2.6	33546.8	0.01	99.45
92.0-93.0	23.4	2.6	33549.3	0.01	99.46
93.0-94.0	22.3	2.4	33551.8	0.01	99.46
94.0-95.0	21.7	2.4	33554.1	0.01	99.47
95.0-96.0	22.7	2.5	33556.6	0.01	99.48
96.0-97.0	22.4	2.4	33559.0	0.01	99.49
97.0-98.0	22.0	2.4	33561.4	0.01	99.49
98.0-99.0	22.1	2.4	33563.8	0.01	99.50
99.0-100.0	20.4	2.2	33566.0	0.01	99.51
100.0-101.0	20.5	2.2	33568.3	0.01	99.51
101.0-102.0	21.5	2.3	33570.6	0.01	99.52
102.0-103.0	21.3	2.3	33572.8	0.01	99.53
103.0-104.0	22.4	2.4	33575.2	0.01	99.53
104.0-105.0	22.5	2.4	33577.6	0.01	99.54
105.0-106.0	22.2	2.3	33580.0	0.01	99.55
106.0-107.0	22.2	2.3	33582.3	0.01	99.55
107.0-108.0	22.1	2.3	33584.6	0.01	99.56

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 24.9 °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 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	22.4	2.3	33587.0	0.01	99.57
109.0-110.0	22.8	2.4	33589.3	0.01	99.58
110.0-111.0	22.7	2.3	33591.6	0.01	99.58
111.0-112.0	22.7	2.3	33594.0	0.01	99.59
112.0-113.0	22.5	2.3	33596.2	0.01	99.60
113.0-114.0	22.8	2.3	33598.5	0.01	99.60
114.0-115.0	23.4	2.3	33600.9	0.01	99.61
115.0-116.0	23.0	2.3	33603.1	0.01	99.62
116.0-117.0	23.5	2.3	33605.4	0.01	99.62
117.0-118.0	24.0	2.3	33607.8	0.01	99.63
118.0-119.0	23.5	2.3	33610.0	0.01	99.64
119.0-120.0	24.2	2.3	33612.4	0.01	99.64
120.0-121.0	24.9	2.4	33614.7	0.01	99.65
121.0-122.0	25.5	2.4	33617.1	0.01	99.66
122.0-123.0	25.9	2.4	33619.5	0.01	99.67
123.0-124.0	25.8	2.4	33621.8	0.01	99.67
124.0-125.0	26.7	2.4	33624.3	0.01	99.68
125.0-126.0	27.7	2.5	33626.7	0.01	99.69
126.0-127.0	27.2	2.4	33629.1	0.01	99.69
127.0-128.0	27.0	2.3	33631.5	0.01	99.70
128.0-129.0	28.4	2.4	33633.9	0.01	99.71
129.0-130.0	29.3	2.5	33636.4	0.01	99.72
130.0-131.0	29.6	2.5	33638.9	0.01	99.72
131.0-132.0	29.7	2.4	33641.3	0.01	99.73
132.0-133.0	30.5	2.5	33643.8	0.01	99.74
133.0-134.0	31.7	2.5	33646.3	0.01	99.74
134.0-135.0	32.8	2.6	33648.9	0.01	99.75
135.0-136.0	34.2	2.6	33651.5	0.01	99.76
136.0-137.0	35.5	2.7	33654.2	0.01	99.77
137.0-138.0	36.1	2.7	33656.8	0.01	99.78
138.0-139.0	36.5	2.7	33659.5	0.01	99.78
139.0-140.0	38.0	2.7	33662.2	0.01	99.79
140.0-141.0	39.1	2.7	33664.9	0.01	99.80
141.0-142.0	39.1	2.7	33667.6	0.01	99.81
142.0-143.0	39.6	2.6	33670.2	0.01	99.82
143.0-144.0	40.2	2.6	33672.9	0.01	99.82

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 24.9 °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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	41.4	2.6	33675.5	0.01	99.83
145.0-146.0	42.7	2.7	33678.2	0.01	99.84
146.0-147.0	43.1	2.6	33680.8	0.01	99.85
147.0-148.0	44.8	2.6	33683.4	0.01	99.85
148.0-149.0	46.2	2.6	33686.1	0.01	99.86
149.0-150.0	46.3	2.6	33688.6	0.01	99.87
150.0-151.0	45.8	2.5	33691.1	0.01	99.88
151.0-152.0	46.9	2.5	33693.6	0.01	99.88
152.0-153.0	48.5	2.5	33696.0	0.01	99.89
153.0-154.0	48.9	2.4	33698.4	0.01	99.90
154.0-155.0	49.7	2.3	33700.8	0.01	99.91
155.0-156.0	50.3	2.3	33703.0	0.01	99.91
156.0-157.0	50.2	2.2	33705.2	0.01	99.92
157.0-158.0	50.6	2.1	33707.4	0.01	99.93
158.0-159.0	51.6	2.1	33709.4	0.01	99.93
159.0-160.0	52.9	2.0	33711.5	0.01	99.94
160.0-161.0	53.6	2.0	33713.4	0.01	99.94
161.0-162.0	54.0	1.9	33715.3	0.01	99.95
162.0-163.0	54.6	1.8	33717.1	0.01	99.95
163.0-164.0	54.0	1.7	33718.8	0.00	99.96
164.0-165.0	53.8	1.6	33720.4	0.00	99.96
165.0-166.0	54.6	1.5	33721.9	0.00	99.97
166.0-167.0	55.6	1.4	33723.3	0.00	99.97
167.0-168.0	56.4	1.3	33724.6	0.00	99.98
168.0-169.0	56.5	1.2	33725.9	0.00	99.98
169.0-170.0	57.6	1.2	33727.0	0.00	99.98
170.0-171.0	58.1	1.1	33728.1	0.00	99.99
171.0-172.0	57.8	0.9	33729.0	0.00	99.99
172.0-173.0	58.2	0.8	33729.8	0.00	99.99
173.0-174.0	58.0	0.7	33730.6	0.00	99.99
174.0-175.0	56.6	0.6	33731.2	0.00	100.00
175.0-176.0	55.9	0.5	33731.6	0.00	100.00
176.0-177.0	55.9	0.4	33732.0	0.00	100.00
177.0-178.0	54.8	0.3	33732.3	0.00	100.00
178.0-179.0	54.8	0.2	33732.4	0.00	100.00
179.0-180.0	54.3	0.1	33732.5	0.00	100.00

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 24.9 °C
 Operator:

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