

Report No.:

Test Time: 2020-12-3 10:43

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 0.802 A
Power Factor: 0.905

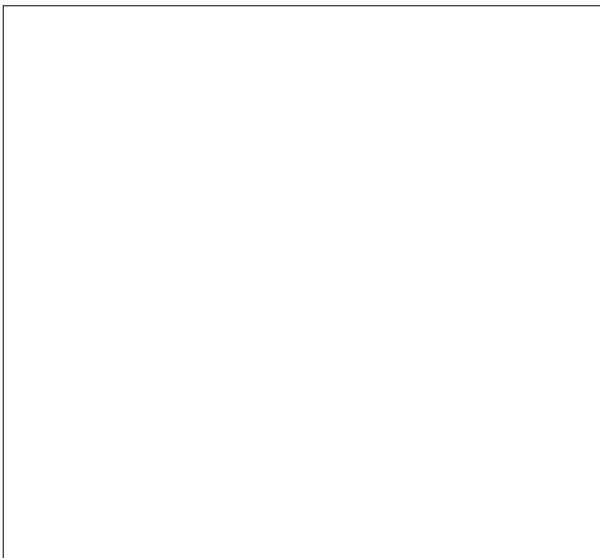
Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 277.0 V
Power: 201.1 W

Photometric Results

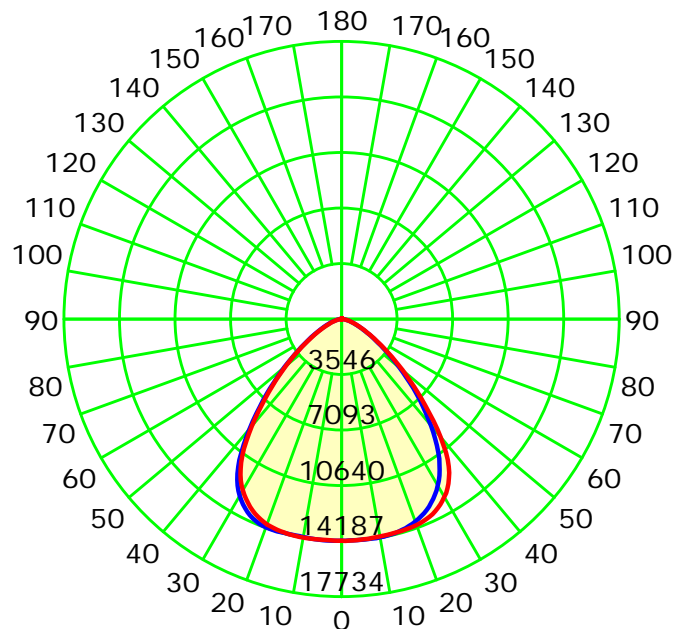
CIE Class: Direct
Measurement Flux: 29094.2 lm
Downward Ratio: 99%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 129.4, 129.0, 129.2, 129.0
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 88.6, 89.1, 88.5, 89.2
Luminaire Efficacy Rating (LER): 144.73
Max. Intensity: 14187.3 cd
S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 29094.2 lm
Efficiency: 100%
Upward Ratio: 1%
C0r0 Intensity: 14165.69 cd
Pos of Max. Intensity: H247.5 V9
S/MH(C90/C270): 1.31

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

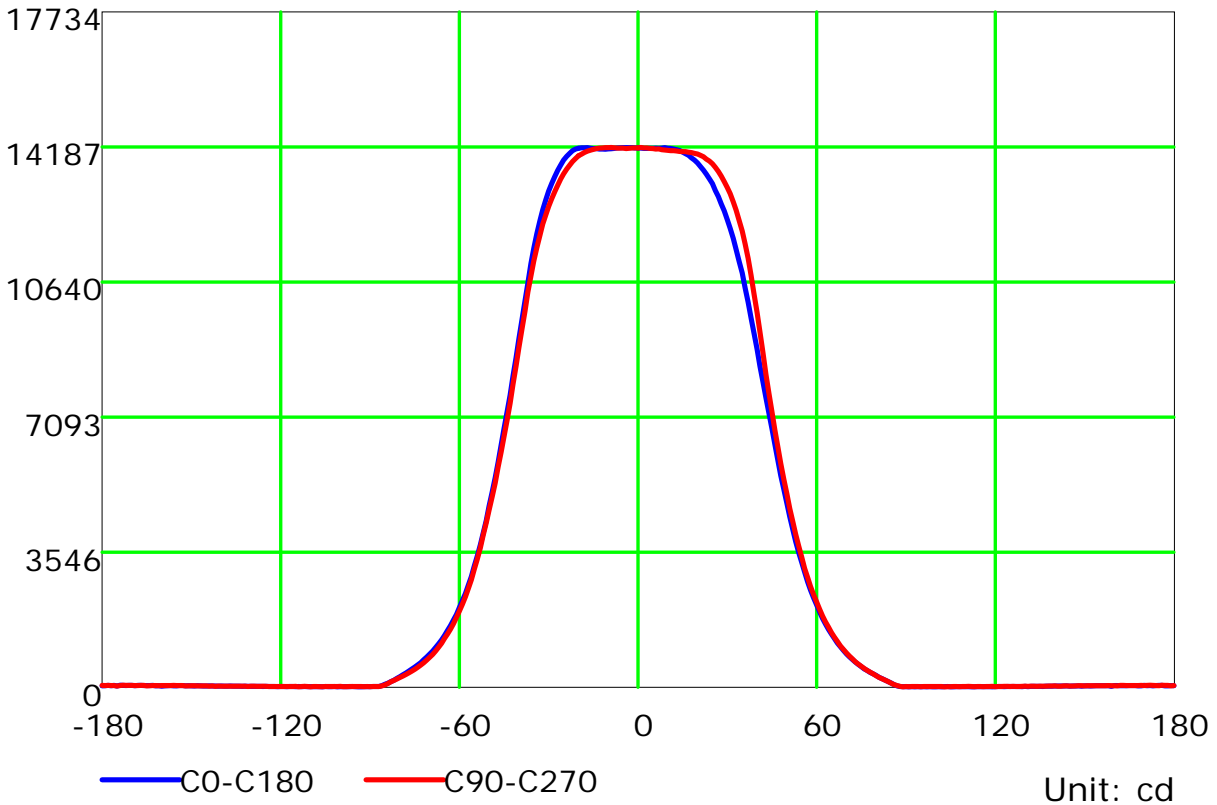
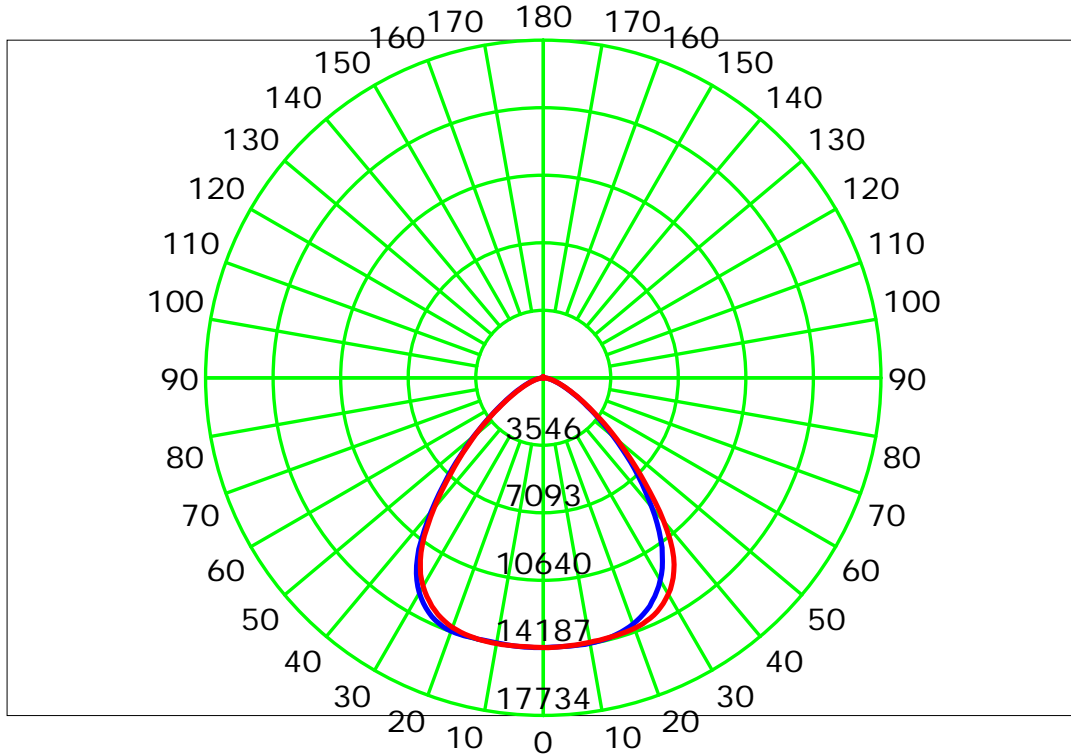
Average Diffuse Angle(50%): 88.9°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25.8 °C
Operator:

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

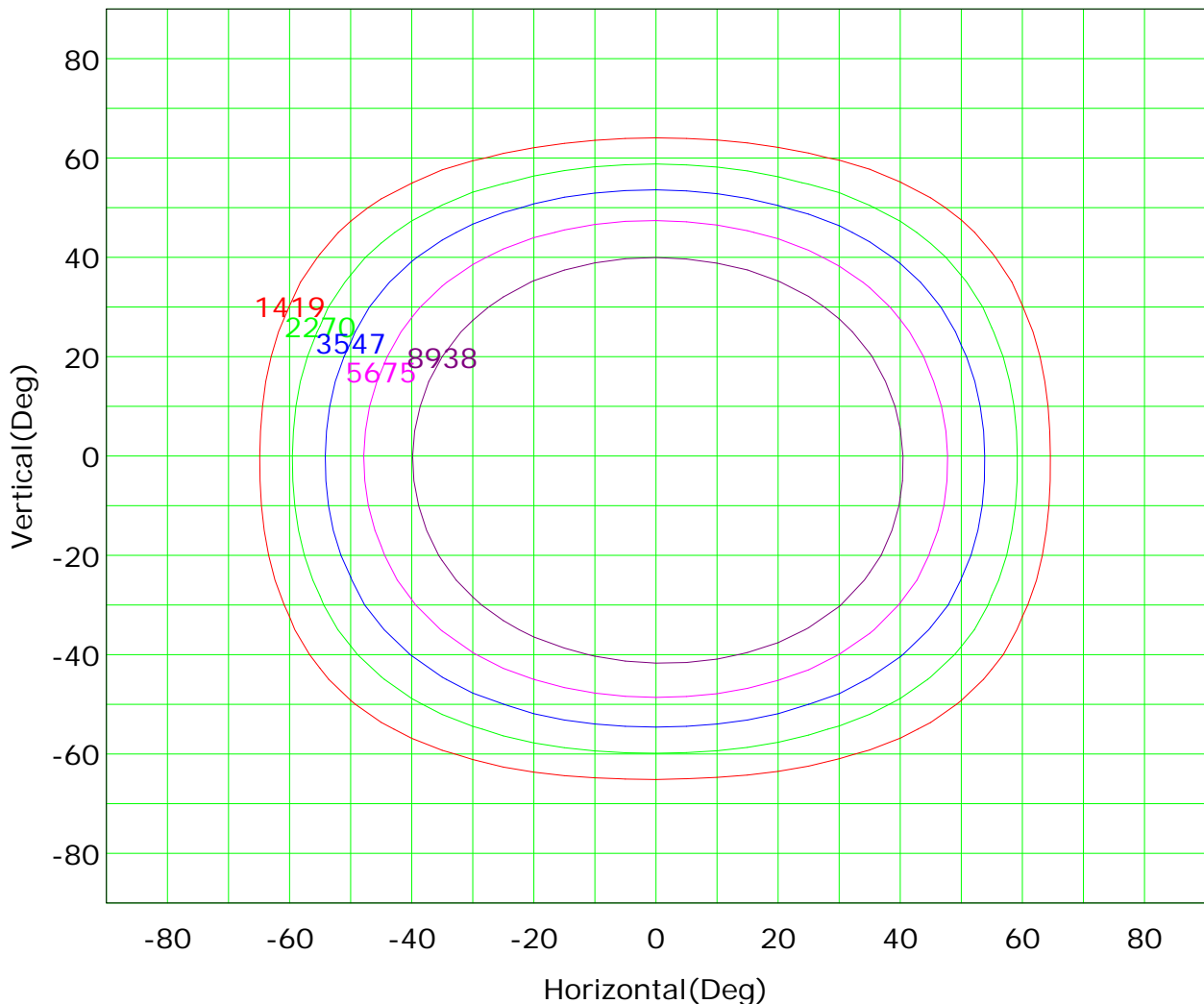
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25.8 °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%): 14187 cd

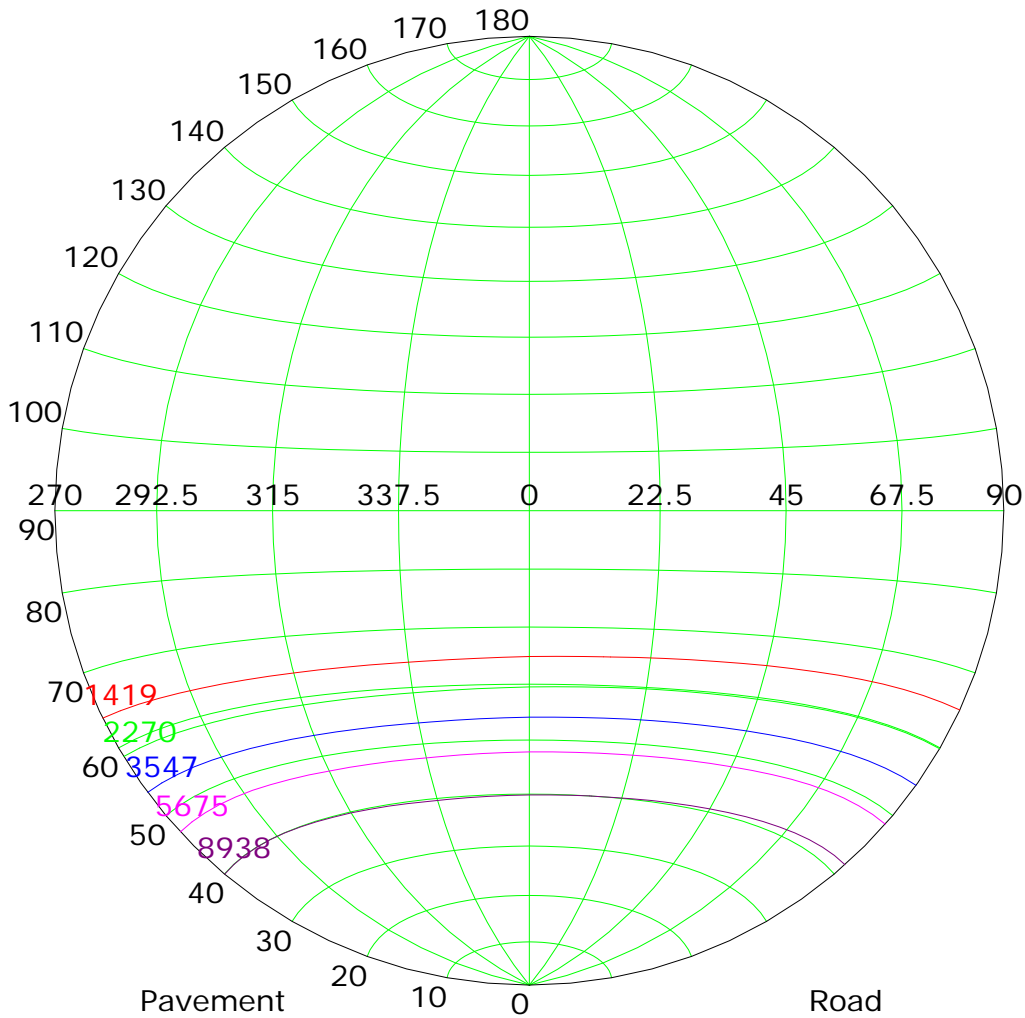
— (10%): 1419 cd
— (25%): 3547 cd
— (63%): 8938 cd

— (16%): 2270 cd
— (40%): 5675 cd
— (100%): 14187 cd

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25.8 °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)



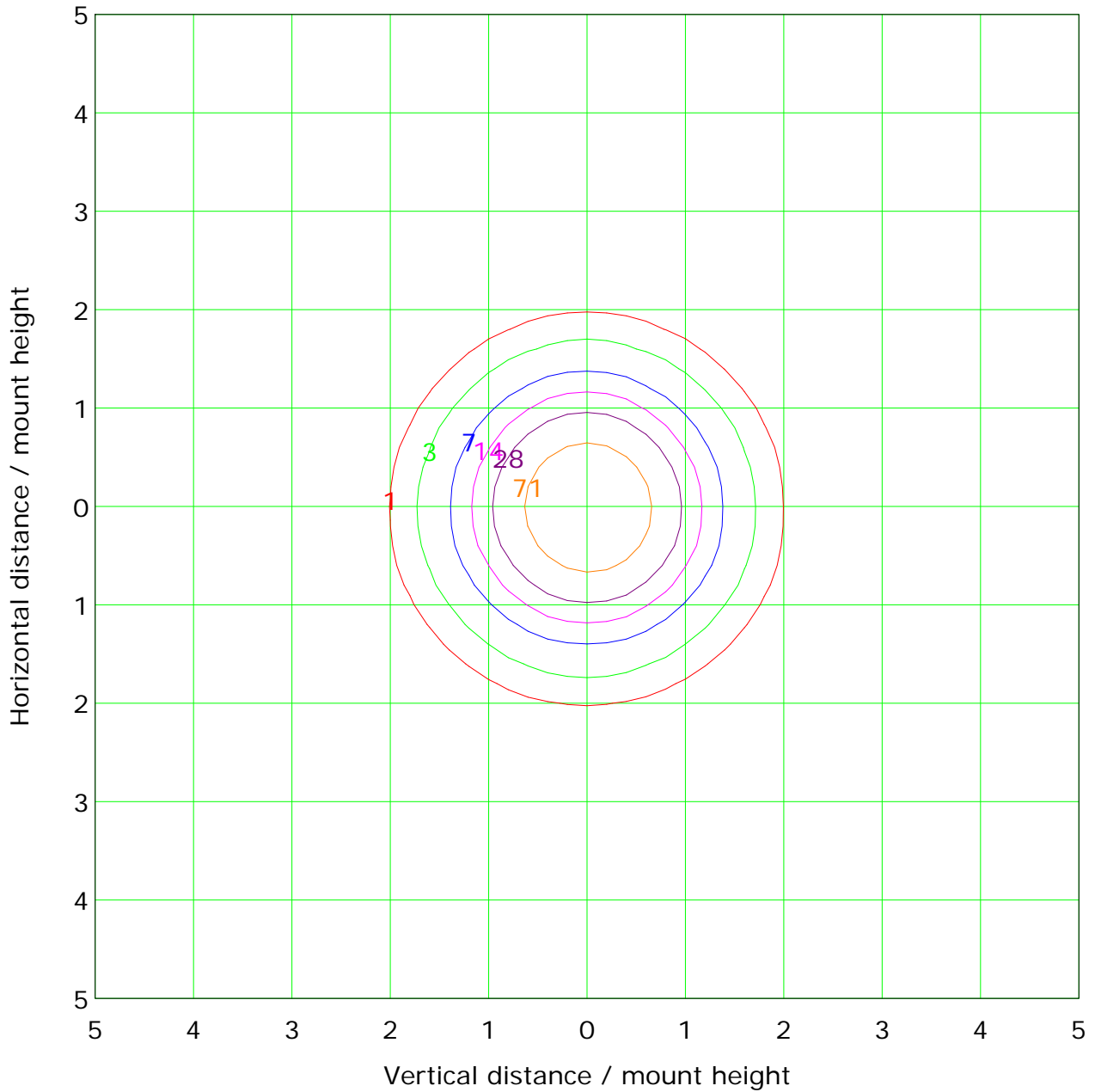
Imax (100%): 14187 cd

- | | |
|-------------------|--------------------|
| — (10%): 1419 cd | — (16%): 2270 cd |
| — (25%): 3547 cd | — (40%): 5675 cd |
| — (63%): 8938 cd | — (100%): 14187 cd |

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25.8 °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

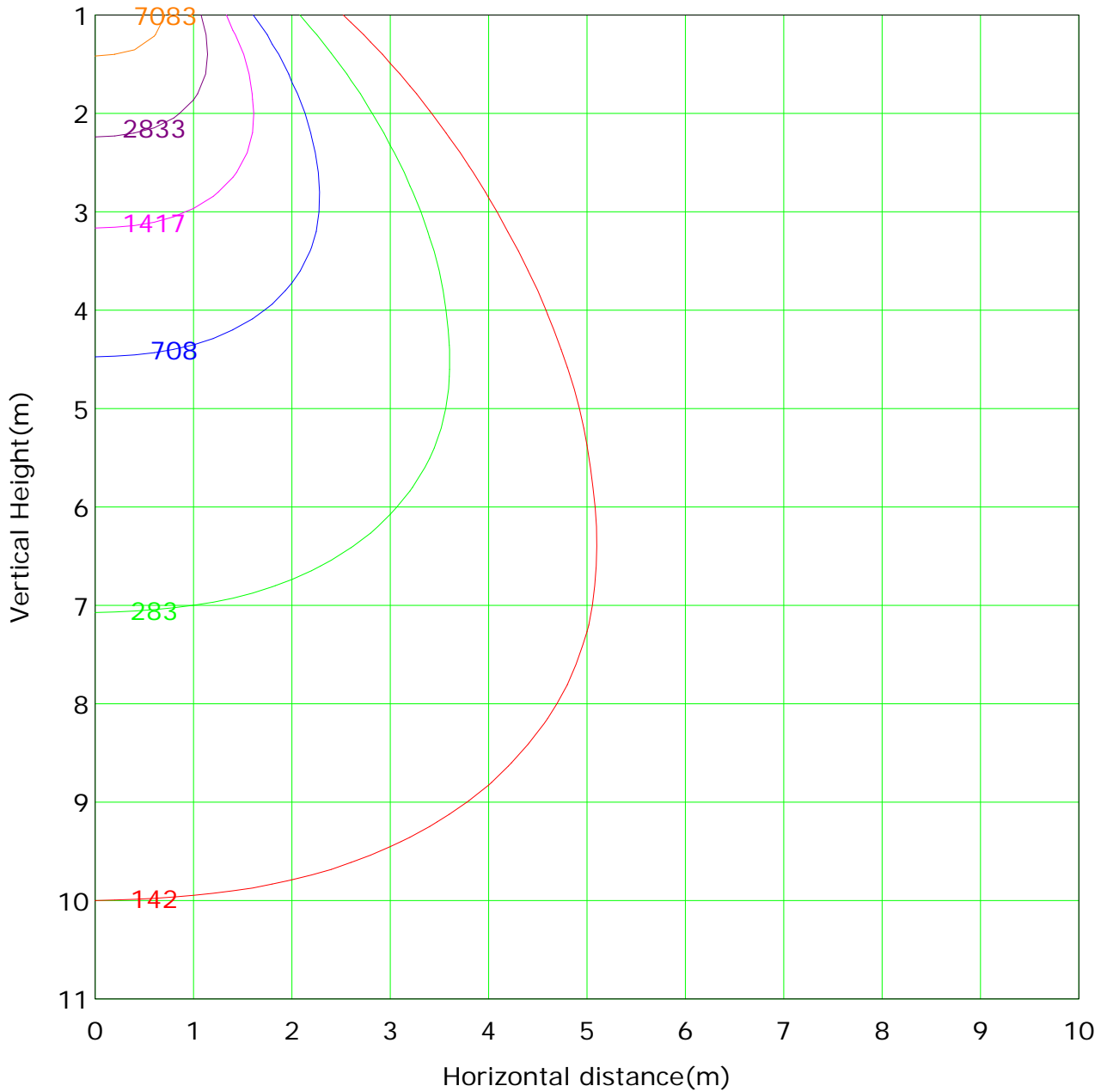


Mounting Height: 10.0m		Max Lux(100%): 141.8 lx
— (1%):	1.4 lx	— (2%): 2.8 lx
— (5%):	7.1 lx	— (10%): 14.2 lx
— (20%):	28.4 lx	— (50%): 70.9 lx
— (100%):	141.8 lx	

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 25.8 °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



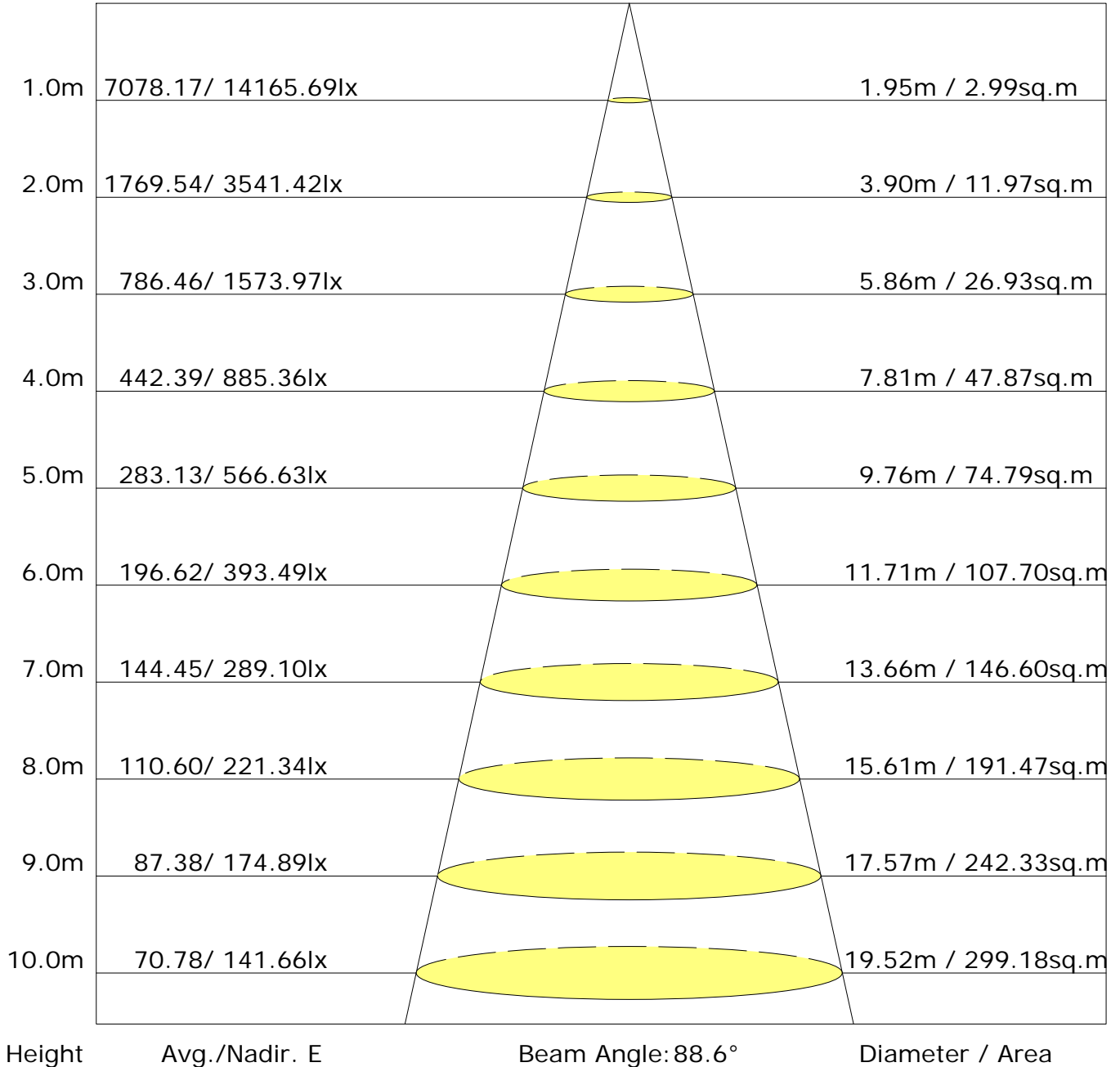
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 14165.7 lx
 (1%): 141.7 lx (2%): 283.3 lx
 (5%): 708.3 lx (10%): 1416.6 lx
 (20%): 2833.1 lx (50%): 7082.8 lx
 (100%): 14165.7 lx

C Plane (°): 0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 25.8 °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

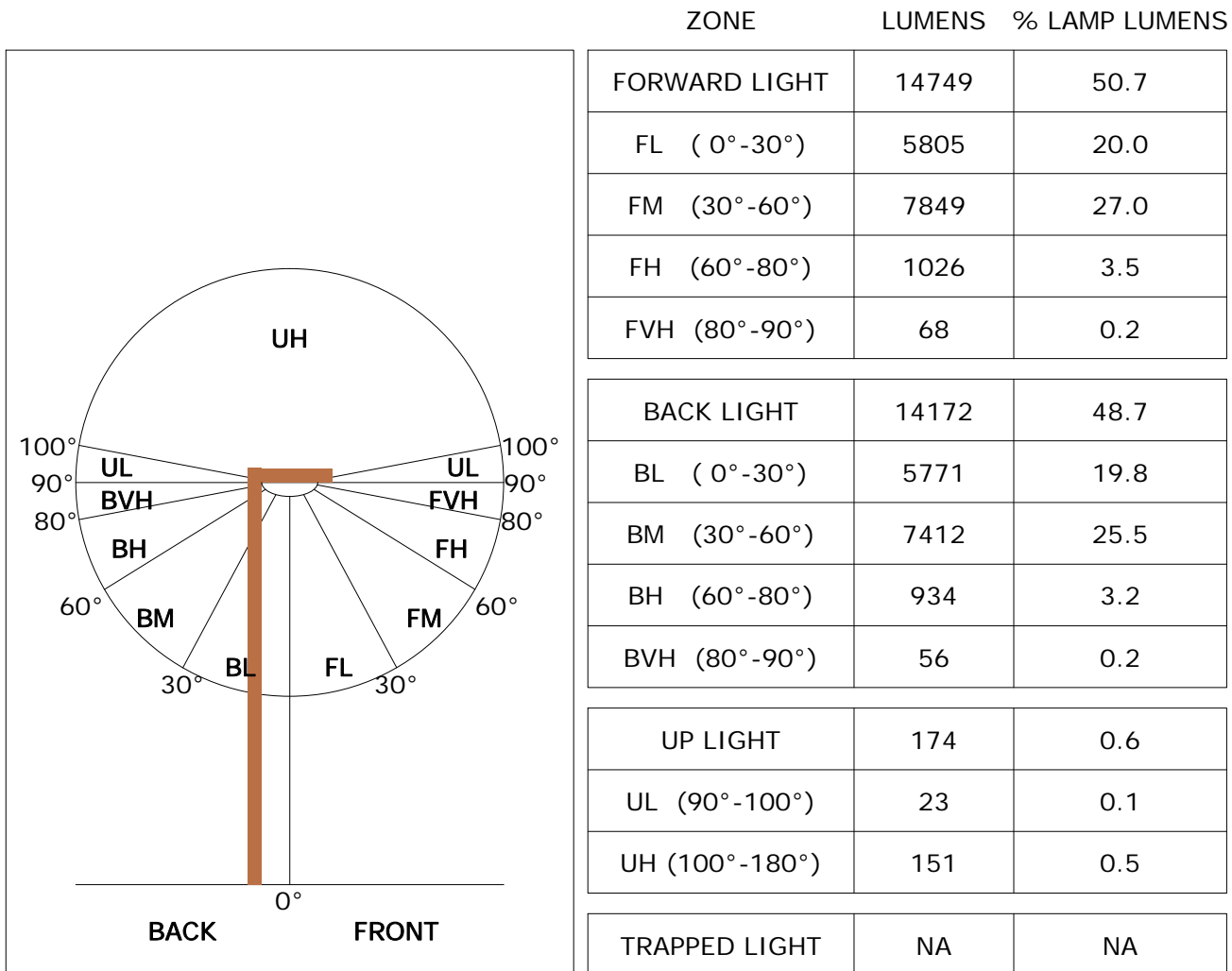
Flux Out: 21176.15lm



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 25.8 °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



BUG(Backlight,Uplight,Glare) Rating Base On TM-15-11	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B5 U3 G2
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: 25.8 °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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	14167.2	13.6	13.6	0.05	0.05
1.0-2.0	14166.9	40.7	54.2	0.14	0.19
2.0-3.0	14164.3	67.8	122.0	0.23	0.42
3.0-4.0	14163.1	94.8	216.8	0.33	0.75
4.0-5.0	14161.5	121.8	338.6	0.42	1.16
5.0-6.0	14159.7	148.8	487.5	0.51	1.68
6.0-7.0	14157.7	175.8	663.2	0.60	2.28
7.0-8.0	14154.8	202.6	865.8	0.70	2.98
8.0-9.0	14153.0	229.4	1095.2	0.79	3.76
9.0-10.0	14151.0	256.1	1351.4	0.88	4.64
10.0-11.0	14147.2	282.7	1634.1	0.97	5.62
11.0-12.0	14141.8	309.2	1943.3	1.06	6.68
12.0-13.0	14134.5	335.5	2278.7	1.15	7.83
13.0-14.0	14125.7	361.6	2640.3	1.24	9.08
14.0-15.0	14113.6	387.5	3027.9	1.33	10.41
15.0-16.0	14098.3	413.2	3441.0	1.42	11.83
16.0-17.0	14080.3	438.5	3879.6	1.51	13.33
17.0-18.0	14057.0	463.5	4343.1	1.59	14.93
18.0-19.0	14025.8	488.0	4831.1	1.68	16.61
19.0-20.0	13987.1	512.0	5343.1	1.76	18.36
20.0-21.0	13938.2	535.3	5878.4	1.84	20.20
21.0-22.0	13878.1	557.8	6436.2	1.92	22.12
22.0-23.0	13805.9	579.4	7015.6	1.99	24.11
23.0-24.0	13720.2	599.9	7615.5	2.06	26.18
24.0-25.0	13622.0	619.5	8235.0	2.13	28.30
25.0-26.0	13505.6	637.6	8872.6	2.19	30.50
26.0-27.0	13371.5	654.3	9526.9	2.25	32.74
27.0-28.0	13225.8	669.7	10196.6	2.30	35.05
28.0-29.0	13062.6	683.5	10880.1	2.35	37.40
29.0-30.0	12878.4	695.4	11575.5	2.39	39.79
30.0-31.0	12675.1	705.5	12281.0	2.42	42.21
31.0-32.0	12445.2	713.1	12994.0	2.45	44.66
32.0-33.0	12183.0	717.8	13711.9	2.47	47.13
33.0-34.0	11893.7	719.9	14431.7	2.47	49.60
34.0-35.0	11572.9	718.8	15150.6	2.47	52.07
35.0-36.0	11211.9	714.0	15864.5	2.45	54.53

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 25.8 °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 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	10811.6	705.2	16569.8	2.42	56.95
37.0-38.0	10381.8	693.1	17262.8	2.38	59.33
38.0-39.0	9924.1	677.5	17940.3	2.33	61.66
39.0-40.0	9443.8	658.7	18599.0	2.26	63.93
40.0-41.0	8954.8	637.8	19236.8	2.19	66.12
41.0-42.0	8464.9	615.1	19851.9	2.11	68.23
42.0-43.0	7981.3	591.3	20443.2	2.03	70.27
43.0-44.0	7517.1	567.4	21010.6	1.95	72.22
44.0-45.0	7066.3	543.1	21553.8	1.87	74.08
45.0-46.0	6621.9	517.9	22071.7	1.78	75.86
46.0-47.0	6192.6	492.6	22564.3	1.69	77.56
47.0-48.0	5780.5	467.4	23031.6	1.61	79.16
48.0-49.0	5385.1	442.3	23473.9	1.52	80.68
49.0-50.0	5009.8	417.8	23891.7	1.44	82.12
50.0-51.0	4647.7	393.3	24285.0	1.35	83.47
51.0-52.0	4298.3	368.9	24653.8	1.27	84.74
52.0-53.0	3969.2	345.3	24999.2	1.19	85.92
53.0-54.0	3656.7	322.3	25321.5	1.11	87.03
54.0-55.0	3366.1	300.5	25622.0	1.03	88.07
55.0-56.0	3096.6	279.9	25901.9	0.96	89.03
56.0-57.0	2844.6	260.1	26162.0	0.89	89.92
57.0-58.0	2613.1	241.7	26403.7	0.83	90.75
58.0-59.0	2401.3	224.5	26628.2	0.77	91.52
59.0-60.0	2206.9	208.5	26836.7	0.72	92.24
60.0-61.0	2026.6	193.4	27030.1	0.66	92.91
61.0-62.0	1857.8	179.0	27209.2	0.62	93.52
62.0-63.0	1703.5	165.7	27374.9	0.57	94.09
63.0-64.0	1561.6	153.3	27528.1	0.53	94.62
64.0-65.0	1429.6	141.5	27669.6	0.49	95.10
65.0-66.0	1308.1	130.5	27800.2	0.45	95.55
66.0-67.0	1194.7	120.1	27920.3	0.41	95.97
67.0-68.0	1088.7	110.3	28030.6	0.38	96.34
68.0-69.0	991.0	101.1	28131.7	0.35	96.69
69.0-70.0	902.3	92.7	28224.4	0.32	97.01
70.0-71.0	821.8	84.9	28309.3	0.29	97.30
71.0-72.0	747.4	77.7	28387.1	0.27	97.57

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 25.8 °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 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	677.6	70.9	28457.9	0.24	97.81
73.0-74.0	613.2	64.5	28522.4	0.22	98.03
74.0-75.0	554.4	58.6	28581.0	0.20	98.24
75.0-76.0	499.6	53.0	28634.0	0.18	98.42
76.0-77.0	448.8	47.9	28681.9	0.16	98.58
77.0-78.0	401.3	43.0	28724.9	0.15	98.73
78.0-79.0	355.8	38.2	28763.1	0.13	98.86
79.0-80.0	312.2	33.7	28796.8	0.12	98.98
80.0-81.0	269.1	29.1	28825.9	0.10	99.08
81.0-82.0	227.0	24.6	28850.5	0.08	99.16
82.0-83.0	187.9	20.4	28870.9	0.07	99.23
83.0-84.0	149.2	16.3	28887.2	0.06	99.29
84.0-85.0	109.6	12.0	28899.1	0.04	99.33
85.0-86.0	73.6	8.0	28907.2	0.03	99.36
86.0-87.0	46.1	5.1	28912.2	0.02	99.37
87.0-88.0	30.6	3.3	28915.6	0.01	99.39
88.0-89.0	23.8	2.6	28918.2	0.01	99.39
89.0-90.0	21.7	2.4	28920.6	0.01	99.40
90.0-91.0	21.0	2.3	28922.9	0.01	99.41
91.0-92.0	20.8	2.3	28925.2	0.01	99.42
92.0-93.0	21.1	2.3	28927.5	0.01	99.43
93.0-94.0	21.3	2.3	28929.8	0.01	99.43
94.0-95.0	21.0	2.3	28932.1	0.01	99.44
95.0-96.0	21.0	2.3	28934.4	0.01	99.45
96.0-97.0	21.0	2.3	28936.7	0.01	99.46
97.0-98.0	20.5	2.2	28938.9	0.01	99.47
98.0-99.0	20.9	2.3	28941.2	0.01	99.47
99.0-100.0	20.3	2.2	28943.4	0.01	99.48
100.0-101.0	20.0	2.2	28945.5	0.01	99.49
101.0-102.0	20.6	2.2	28947.7	0.01	99.50
102.0-103.0	20.4	2.2	28949.9	0.01	99.50
103.0-104.0	19.8	2.1	28952.0	0.01	99.51
104.0-105.0	19.9	2.1	28954.1	0.01	99.52
105.0-106.0	20.7	2.2	28956.3	0.01	99.53
106.0-107.0	20.9	2.2	28958.5	0.01	99.53
107.0-108.0	20.6	2.2	28960.7	0.01	99.54

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 25.8 °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 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	21.1	2.2	28962.9	0.01	99.55
109.0-110.0	20.8	2.1	28965.0	0.01	99.56
110.0-111.0	20.3	2.1	28967.1	0.01	99.56
111.0-112.0	21.1	2.2	28969.3	0.01	99.57
112.0-113.0	20.9	2.1	28971.4	0.01	99.58
113.0-114.0	20.6	2.1	28973.5	0.01	99.58
114.0-115.0	21.3	2.1	28975.6	0.01	99.59
115.0-116.0	21.6	2.1	28977.7	0.01	99.60
116.0-117.0	21.8	2.1	28979.9	0.01	99.61
117.0-118.0	21.9	2.1	28982.0	0.01	99.61
118.0-119.0	22.1	2.1	28984.1	0.01	99.62
119.0-120.0	22.5	2.1	28986.3	0.01	99.63
120.0-121.0	22.7	2.1	28988.4	0.01	99.64
121.0-122.0	23.1	2.2	28990.6	0.01	99.64
122.0-123.0	23.7	2.2	28992.8	0.01	99.65
123.0-124.0	23.7	2.2	28994.9	0.01	99.66
124.0-125.0	23.9	2.2	28997.1	0.01	99.67
125.0-126.0	24.6	2.2	28999.3	0.01	99.67
126.0-127.0	25.9	2.3	29001.6	0.01	99.68
127.0-128.0	26.8	2.3	29003.9	0.01	99.69
128.0-129.0	26.5	2.3	29006.2	0.01	99.70
129.0-130.0	27.2	2.3	29008.5	0.01	99.71
130.0-131.0	27.2	2.3	29010.7	0.01	99.71
131.0-132.0	27.6	2.3	29013.0	0.01	99.72
132.0-133.0	28.0	2.3	29015.3	0.01	99.73
133.0-134.0	28.1	2.2	29017.5	0.01	99.74
134.0-135.0	30.1	2.4	29019.9	0.01	99.74
135.0-136.0	30.9	2.4	29022.2	0.01	99.75
136.0-137.0	30.6	2.3	29024.5	0.01	99.76
137.0-138.0	31.4	2.3	29026.9	0.01	99.77
138.0-139.0	32.8	2.4	29029.3	0.01	99.78
139.0-140.0	34.4	2.5	29031.7	0.01	99.79
140.0-141.0	35.2	2.5	29034.2	0.01	99.79
141.0-142.0	35.0	2.4	29036.6	0.01	99.80
142.0-143.0	36.0	2.4	29039.0	0.01	99.81
143.0-144.0	37.3	2.4	29041.4	0.01	99.82

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 25.8 °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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	37.4	2.4	29043.8	0.01	99.83
145.0-146.0	36.9	2.3	29046.1	0.01	99.83
146.0-147.0	38.2	2.3	29048.4	0.01	99.84
147.0-148.0	39.9	2.4	29050.7	0.01	99.85
148.0-149.0	40.8	2.3	29053.1	0.01	99.86
149.0-150.0	41.1	2.3	29055.4	0.01	99.87
150.0-151.0	41.9	2.3	29057.6	0.01	99.87
151.0-152.0	42.7	2.2	29059.8	0.01	99.88
152.0-153.0	43.0	2.2	29062.0	0.01	99.89
153.0-154.0	44.0	2.2	29064.2	0.01	99.90
154.0-155.0	44.3	2.1	29066.3	0.01	99.90
155.0-156.0	45.3	2.1	29068.3	0.01	99.91
156.0-157.0	45.7	2.0	29070.3	0.01	99.92
157.0-158.0	45.5	1.9	29072.2	0.01	99.92
158.0-159.0	44.8	1.8	29074.0	0.01	99.93
159.0-160.0	45.1	1.7	29075.8	0.01	99.94
160.0-161.0	46.6	1.7	29077.5	0.01	99.94
161.0-162.0	47.1	1.6	29079.1	0.01	99.95
162.0-163.0	48.1	1.6	29080.7	0.01	99.95
163.0-164.0	47.7	1.5	29082.2	0.01	99.96
164.0-165.0	47.5	1.4	29083.6	0.00	99.96
165.0-166.0	49.2	1.4	29084.9	0.00	99.97
166.0-167.0	50.5	1.3	29086.2	0.00	99.97
167.0-168.0	49.7	1.2	29087.4	0.00	99.98
168.0-169.0	49.3	1.1	29088.5	0.00	99.98
169.0-170.0	50.5	1.0	29089.5	0.00	99.98
170.0-171.0	50.6	0.9	29090.4	0.00	99.99
171.0-172.0	50.2	0.8	29091.2	0.00	99.99
172.0-173.0	50.4	0.7	29091.9	0.00	99.99
173.0-174.0	50.2	0.6	29092.6	0.00	99.99
174.0-175.0	48.9	0.5	29093.1	0.00	100.00
175.0-176.0	48.8	0.4	29093.5	0.00	100.00
176.0-177.0	48.0	0.3	29093.8	0.00	100.00
177.0-178.0	48.0	0.2	29094.1	0.00	100.00
178.0-179.0	47.9	0.1	29094.2	0.00	100.00
179.0-180.0	47.2	0.0	29094.2	0.00	100.00

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 25.8 °C
 Operator:

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