

Report No.:

Test Time: 2020-11-6 15:32

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 1.251 A
Power Factor: 0.995

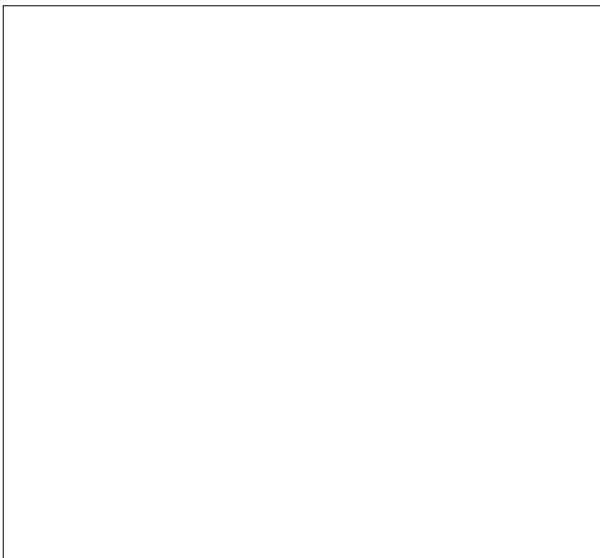
Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 120.0 V
Power: 149.61 W

Photometric Results

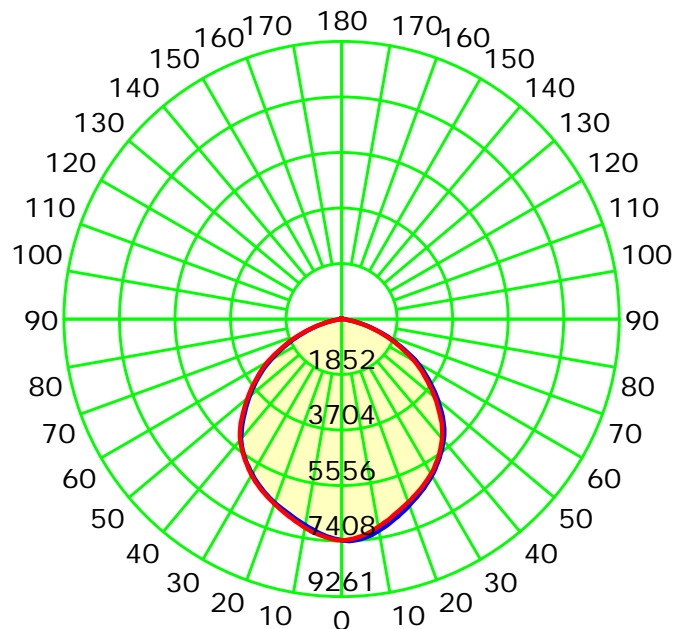
CIE Class: Direct
Measurement Flux: 18981.4 lm
Downward Ratio: 99%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 151.4, 151.4, 151.5, 151.6
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.3, 106.2, 106.6, 106.0
Luminaire Efficacy Rating (LER): 126.92
Max. Intensity: 7408.93 cd
S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 18981.4 lm
Efficiency: 100%
Upward Ratio: 1%
C0r0 Intensity: 7378.02 cd
Pos of Max. Intensity: H0 V2
S/MH(C90/C270): 1.21

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

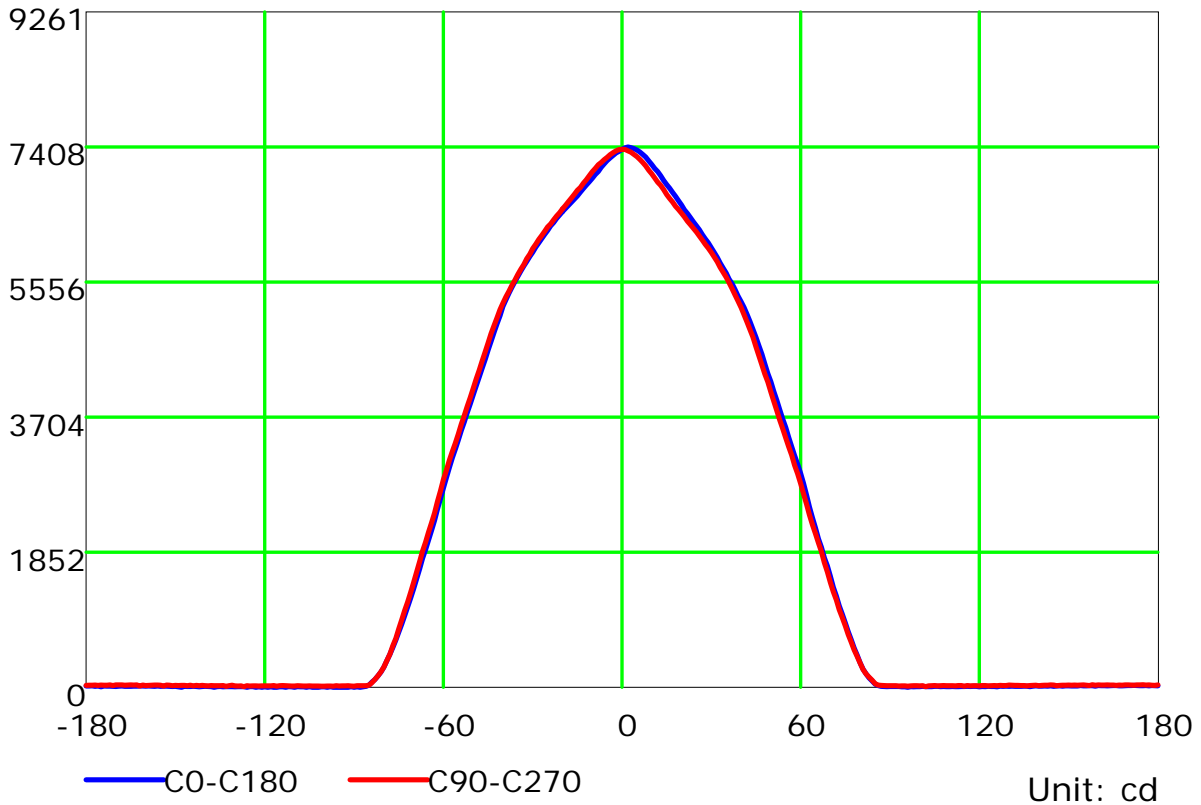
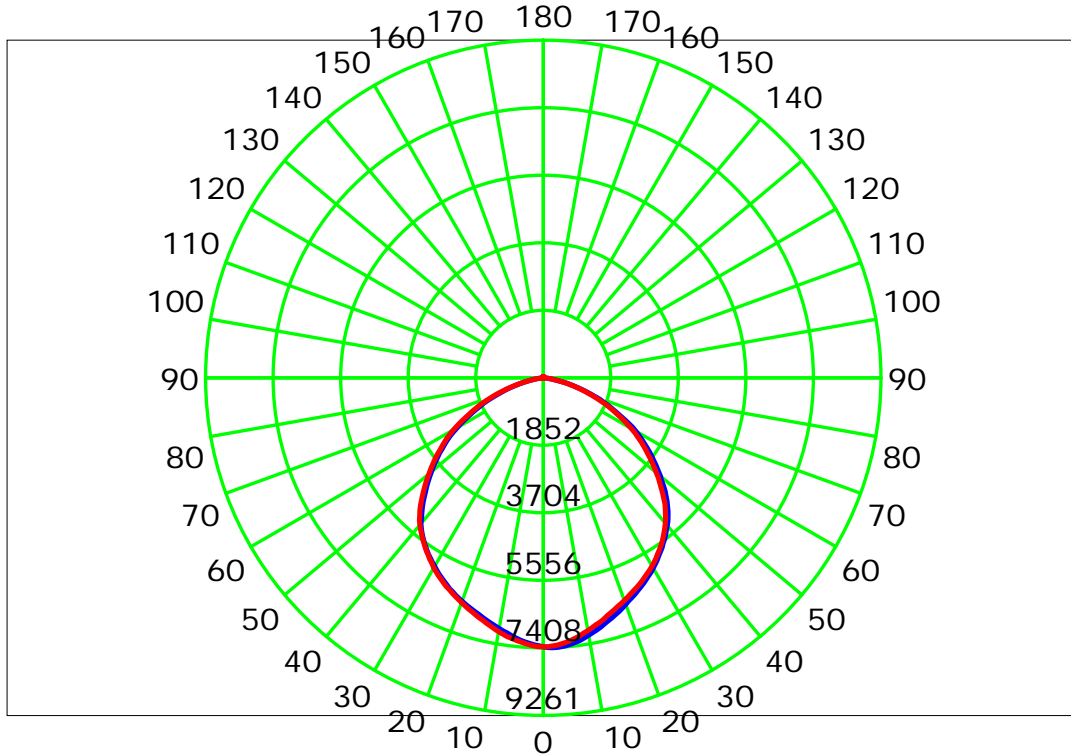
Average Diffuse Angle(50%): 106.2°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25.4 °C
Operator:

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

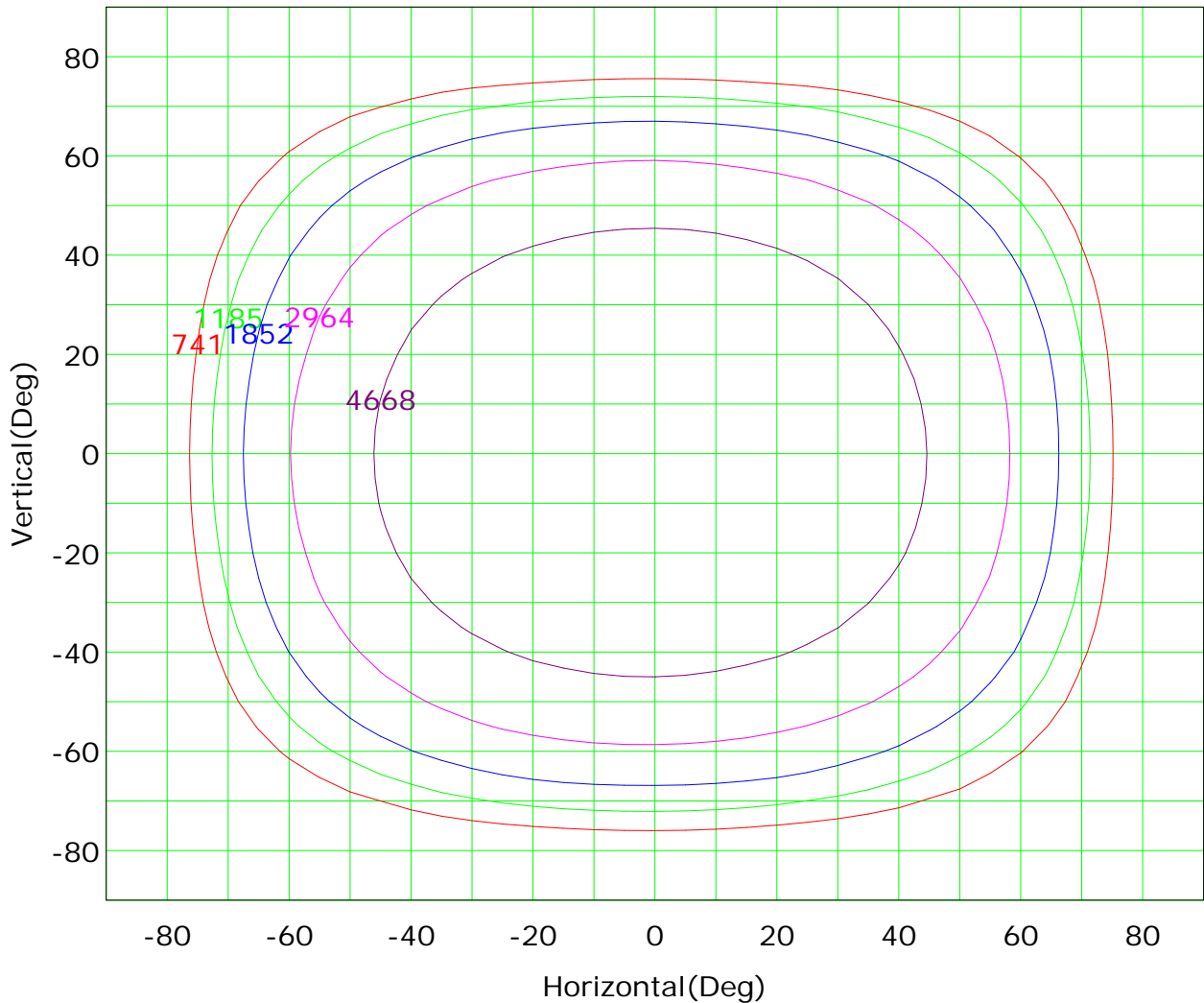
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25.4 °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%): 7409 cd

— (10%): 741 cd	— (16%): 1185 cd
— (25%): 1852 cd	— (40%): 2964 cd
— (63%): 4668 cd	— (100%): 7409 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 25.4 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

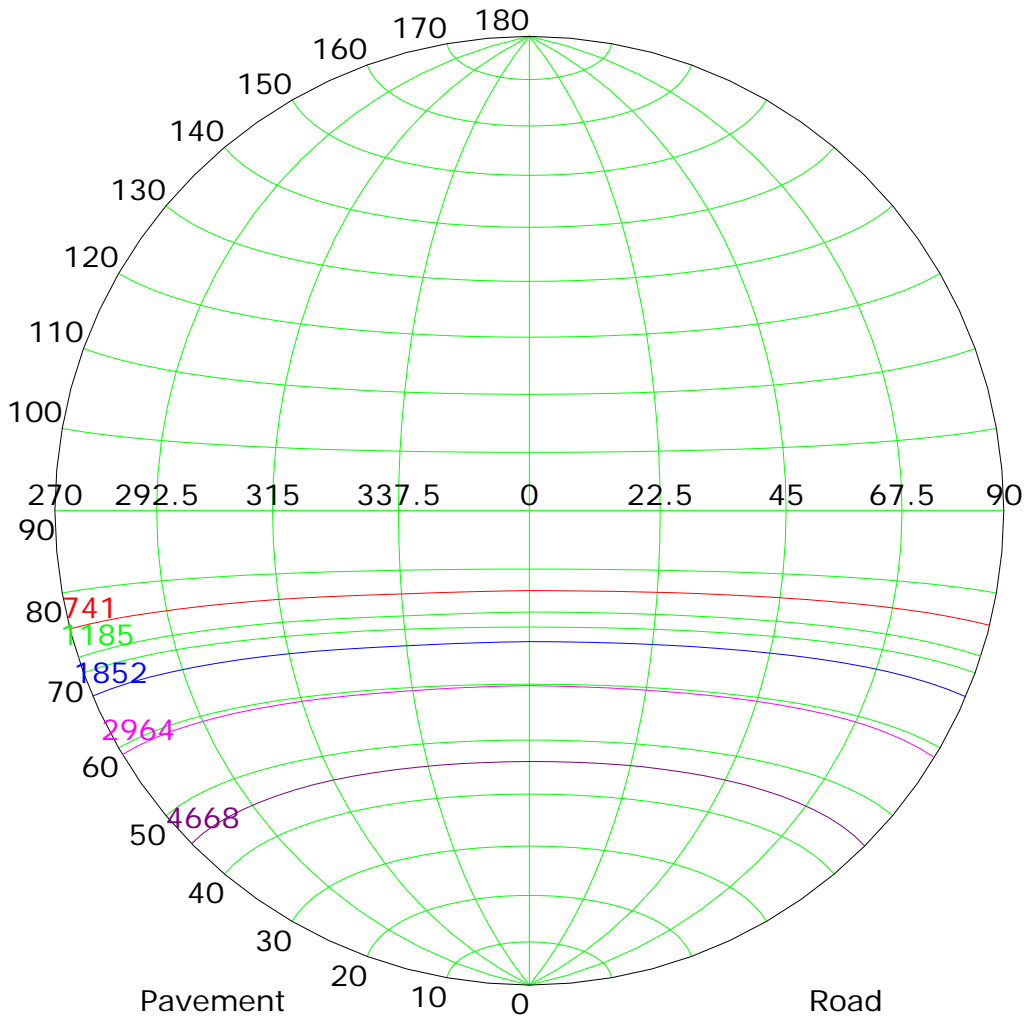
Test Device: GPM-3000

Distance: 14.040 m [K=1.0000]

Humidity:

Inspector:

Isocandela (sphere)



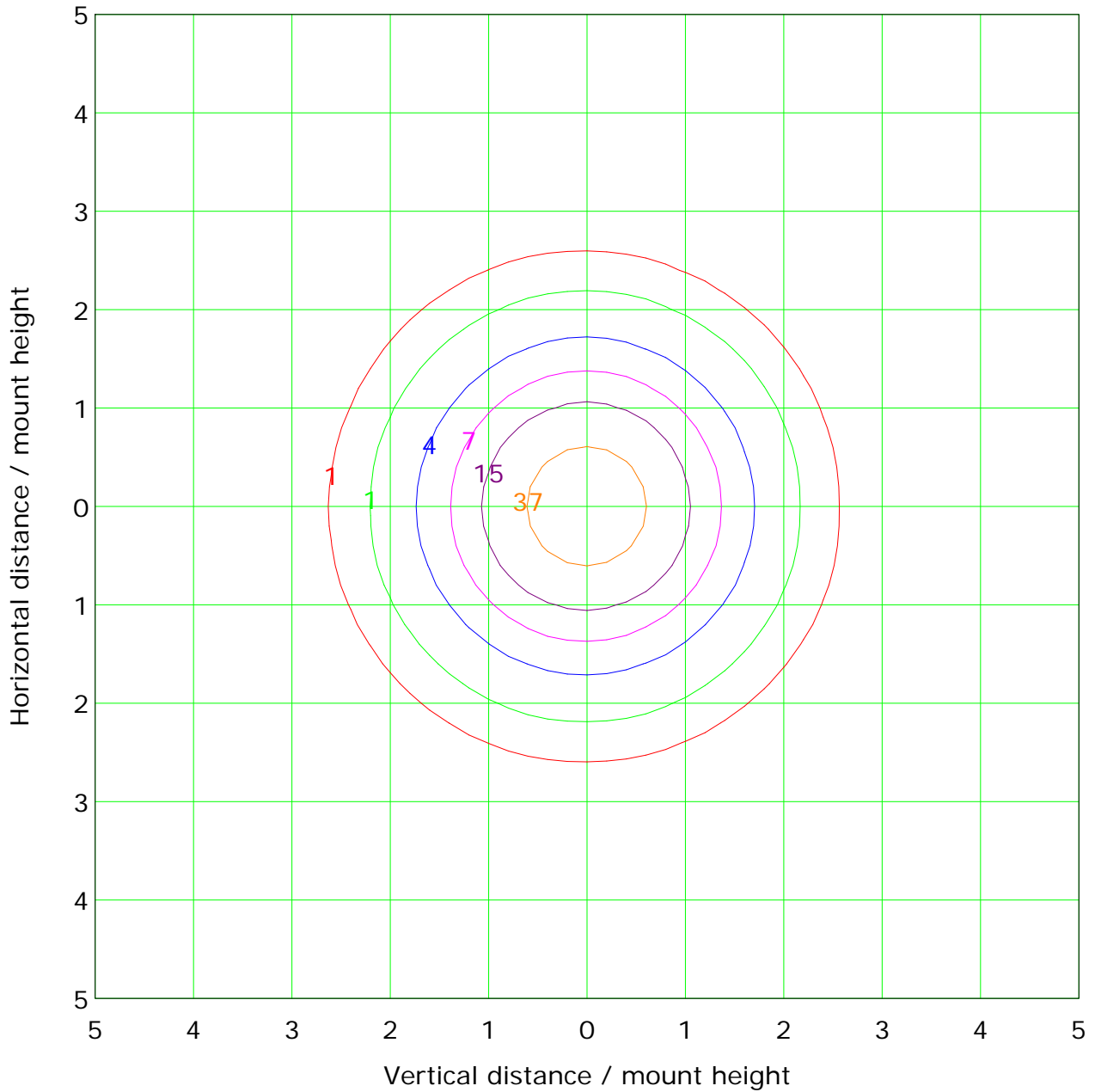
Imax (100%): 7409 cd

— (10%): 741 cd	— (16%): 1185 cd
— (25%): 1852 cd	— (40%): 2964 cd
— (63%): 4668 cd	— (100%): 7409 cd

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

IsoLux Plot

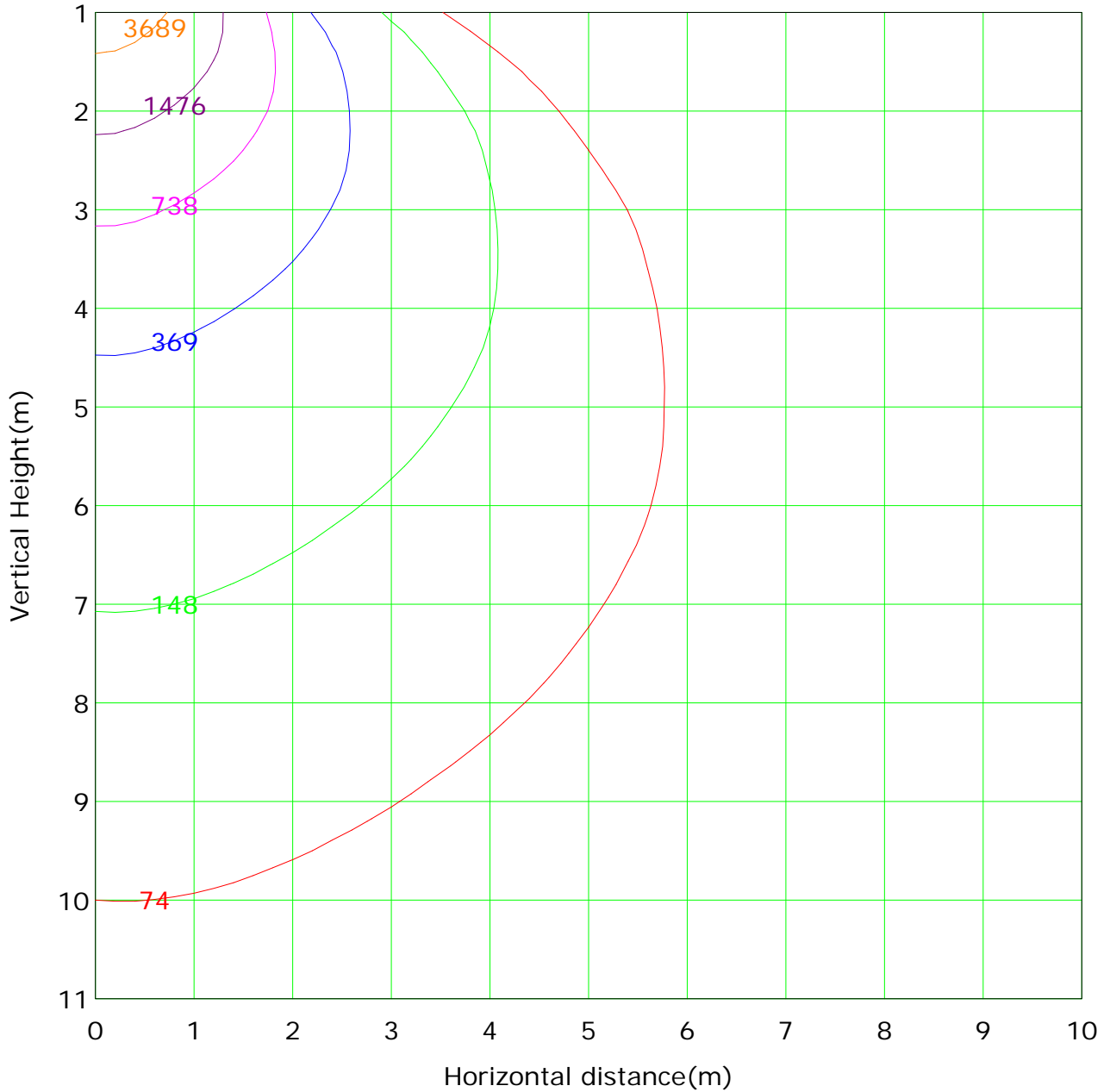


Mounting Height: 10.0m		Max Lux(100%): 74.0 lx	
— (1%):	0.7 lx	— (2%):	1.5 lx
— (5%):	3.7 lx	— (10%):	7.4 lx
— (20%):	14.8 lx	— (50%):	37.0 lx
— (100%):	74.0 lx		

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 25.4 '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: 7378.0 lx

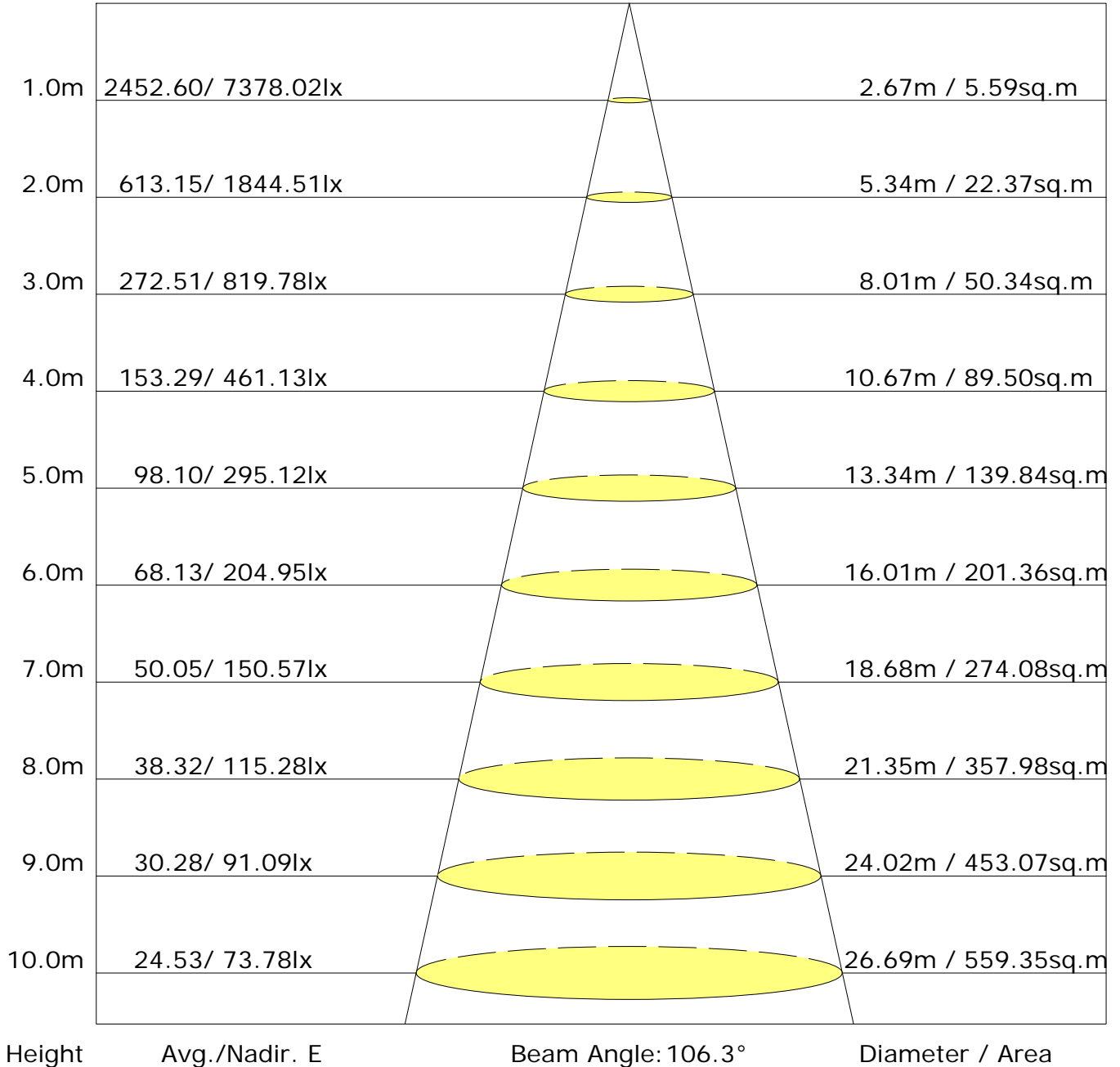
— (1%): 73.8 lx	— (2%): 147.6 lx
— (5%): 368.9 lx	— (10%): 737.8 lx
— (20%): 1475.6 lx	— (50%): 3689.0 lx
— (100%): 7378.0 lx	

C Plane (°): 0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25.4 '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: 13718.55lm



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 25.4 °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	9427	49.7
	FL (0°-30°)	2752	14.5
	FM (30°-60°)	5117	27.0
	FH (60°-80°)	1502	7.9
	FVH (80°-90°)	56	0.3
	BACK LIGHT	9424	49.6
	BL (0°-30°)	2758	14.5
	BM (30°-60°)	5134	27.0
	BH (60°-80°)	1483	7.8
	BVH (80°-90°)	48	0.3
	UP LIGHT	130	0.7
	UL (90°-100°)	19	0.1
	UH (100°-180°)	111	0.6
	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 G1

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 Test Type: TYPE C
 Temperature: 25.4 '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	7376.9	7.1	7.1	0.04	0.04
1.0-2.0	7369.6	21.2	28.2	0.11	0.15
2.0-3.0	7352.8	35.2	63.4	0.19	0.33
3.0-4.0	7329.7	49.1	112.5	0.26	0.59
4.0-5.0	7300.9	62.8	175.3	0.33	0.92
5.0-6.0	7267.5	76.4	251.7	0.40	1.33
6.0-7.0	7228.2	89.7	341.4	0.47	1.80
7.0-8.0	7184.4	102.8	444.2	0.54	2.34
8.0-9.0	7138.8	115.7	559.9	0.61	2.95
9.0-10.0	7091.0	128.3	688.3	0.68	3.63
10.0-11.0	7040.9	140.7	829.0	0.74	4.37
11.0-12.0	6987.8	152.8	981.8	0.80	5.17
12.0-13.0	6935.1	164.6	1146.4	0.87	6.04
13.0-14.0	6882.6	176.2	1322.6	0.93	6.97
14.0-15.0	6830.2	187.5	1510.1	0.99	7.96
15.0-16.0	6777.8	198.6	1708.7	1.05	9.00
16.0-17.0	6726.6	209.5	1918.2	1.10	10.11
17.0-18.0	6677.0	220.2	2138.4	1.16	11.27
18.0-19.0	6625.8	230.6	2369.0	1.21	12.48
19.0-20.0	6574.2	240.7	2609.6	1.27	13.75
20.0-21.0	6522.8	250.5	2860.1	1.32	15.07
21.0-22.0	6472.4	260.1	3120.2	1.37	16.44
22.0-23.0	6422.1	269.5	3389.7	1.42	17.86
23.0-24.0	6369.8	278.5	3668.3	1.47	19.33
24.0-25.0	6316.0	287.2	3955.5	1.51	20.84
25.0-26.0	6261.1	295.6	4251.1	1.56	22.40
26.0-27.0	6204.4	303.6	4554.7	1.60	24.00
27.0-28.0	6146.3	311.2	4865.9	1.64	25.64
28.0-29.0	6087.4	318.5	5184.4	1.68	27.31
29.0-30.0	6025.4	325.4	5509.8	1.71	29.03
30.0-31.0	5961.6	331.8	5841.6	1.75	30.78
31.0-32.0	5896.5	337.9	6179.4	1.78	32.56
32.0-33.0	5828.5	343.4	6522.9	1.81	34.36
33.0-34.0	5758.2	348.5	6871.4	1.84	36.20
34.0-35.0	5686.6	353.2	7224.6	1.86	38.06
35.0-36.0	5612.5	357.4	7582.0	1.88	39.94

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 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	5536.5	361.1	7943.1	1.90	41.85
37.0-38.0	5457.4	364.3	8307.5	1.92	43.77
38.0-39.0	5374.6	366.9	8674.4	1.93	45.70
39.0-40.0	5289.6	369.0	9043.3	1.94	47.64
40.0-41.0	5198.6	370.2	9413.6	1.95	49.59
41.0-42.0	5099.7	370.6	9784.1	1.95	51.55
42.0-43.0	4996.0	370.1	10154.3	1.95	53.50
43.0-44.0	4886.9	368.9	10523.2	1.94	55.44
44.0-45.0	4769.3	366.6	10889.7	1.93	57.37
45.0-46.0	4648.0	363.5	11253.3	1.92	59.29
46.0-47.0	4525.7	360.0	11613.3	1.90	61.18
47.0-48.0	4401.2	355.8	11969.1	1.87	63.06
48.0-49.0	4274.5	351.1	12320.2	1.85	64.91
49.0-50.0	4148.9	346.0	12666.2	1.82	66.73
50.0-51.0	4024.0	340.5	13006.7	1.79	68.52
51.0-52.0	3898.5	334.6	13341.2	1.76	70.29
52.0-53.0	3773.9	328.3	13669.6	1.73	72.02
53.0-54.0	3650.1	321.8	13991.3	1.70	73.71
54.0-55.0	3525.3	314.7	14306.1	1.66	75.37
55.0-56.0	3400.6	307.3	14613.4	1.62	76.99
56.0-57.0	3277.3	299.7	14913.1	1.58	78.57
57.0-58.0	3153.7	291.7	15204.8	1.54	80.10
58.0-59.0	3026.9	283.0	15487.8	1.49	81.59
59.0-60.0	2894.0	273.4	15761.2	1.44	83.04
60.0-61.0	2754.0	262.9	16024.1	1.38	84.42
61.0-62.0	2606.6	251.2	16275.3	1.32	85.74
62.0-63.0	2457.9	239.1	16514.4	1.26	87.00
63.0-64.0	2314.3	227.1	16741.5	1.20	88.20
64.0-65.0	2176.6	215.4	16956.9	1.14	89.33
65.0-66.0	2043.6	203.9	17160.8	1.07	90.41
66.0-67.0	1915.1	192.6	17353.4	1.01	91.42
67.0-68.0	1785.3	180.9	17534.3	0.95	92.38
68.0-69.0	1648.6	168.2	17702.5	0.89	93.26
69.0-70.0	1509.0	155.0	17857.5	0.82	94.08
70.0-71.0	1373.9	142.0	17999.5	0.75	94.83
71.0-72.0	1247.6	129.7	18129.3	0.68	95.51

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
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 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	1126.8	117.9	18247.1	0.62	96.13
73.0-74.0	1005.6	105.7	18352.9	0.56	96.69
74.0-75.0	884.0	93.4	18446.3	0.49	97.18
75.0-76.0	767.4	81.5	18527.7	0.43	97.61
76.0-77.0	660.3	70.4	18598.2	0.37	97.98
77.0-78.0	558.2	59.8	18657.9	0.31	98.30
78.0-79.0	459.7	49.4	18707.3	0.26	98.56
79.0-80.0	367.4	39.6	18746.9	0.21	98.76
80.0-81.0	283.6	30.7	18777.6	0.16	98.93
81.0-82.0	212.1	23.0	18800.6	0.12	99.05
82.0-83.0	154.0	16.7	18817.4	0.09	99.14
83.0-84.0	109.2	11.9	18829.3	0.06	99.20
84.0-85.0	72.3	7.9	18837.2	0.04	99.24
85.0-86.0	43.7	4.8	18841.9	0.03	99.27
86.0-87.0	26.6	2.9	18844.9	0.02	99.28
87.0-88.0	20.1	2.2	18847.1	0.01	99.29
88.0-89.0	19.1	2.1	18849.1	0.01	99.30
89.0-90.0	18.7	2.0	18851.2	0.01	99.31
90.0-91.0	18.5	2.0	18853.2	0.01	99.32
91.0-92.0	17.9	2.0	18855.2	0.01	99.34
92.0-93.0	17.7	1.9	18857.1	0.01	99.35
93.0-94.0	17.8	2.0	18859.1	0.01	99.36
94.0-95.0	17.4	1.9	18861.0	0.01	99.37
95.0-96.0	16.9	1.8	18862.8	0.01	99.38
96.0-97.0	16.8	1.8	18864.6	0.01	99.38
97.0-98.0	16.9	1.8	18866.5	0.01	99.39
98.0-99.0	17.1	1.9	18868.3	0.01	99.40
99.0-100.0	17.4	1.9	18870.2	0.01	99.41
100.0-101.0	17.4	1.9	18872.1	0.01	99.42
101.0-102.0	16.1	1.7	18873.8	0.01	99.43
102.0-103.0	16.1	1.7	18875.6	0.01	99.44
103.0-104.0	16.9	1.8	18877.4	0.01	99.45
104.0-105.0	18.1	1.9	18879.3	0.01	99.46
105.0-106.0	18.4	1.9	18881.2	0.01	99.47
106.0-107.0	17.5	1.8	18883.0	0.01	99.48
107.0-108.0	18.1	1.9	18884.9	0.01	99.49

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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	18.4	1.9	18886.9	0.01	99.50
109.0-110.0	18.0	1.9	18888.7	0.01	99.51
110.0-111.0	18.2	1.9	18890.6	0.01	99.52
111.0-112.0	19.2	2.0	18892.5	0.01	99.53
112.0-113.0	19.2	1.9	18894.5	0.01	99.54
113.0-114.0	19.0	1.9	18896.4	0.01	99.55
114.0-115.0	18.7	1.9	18898.3	0.01	99.56
115.0-116.0	18.2	1.8	18900.1	0.01	99.57
116.0-117.0	18.6	1.8	18901.9	0.01	99.58
117.0-118.0	18.4	1.8	18903.7	0.01	99.59
118.0-119.0	18.3	1.8	18905.4	0.01	99.60
119.0-120.0	19.1	1.8	18907.3	0.01	99.61
120.0-121.0	19.0	1.8	18909.1	0.01	99.62
121.0-122.0	19.2	1.8	18910.8	0.01	99.63
122.0-123.0	19.4	1.8	18912.6	0.01	99.64
123.0-124.0	19.5	1.8	18914.4	0.01	99.65
124.0-125.0	19.9	1.8	18916.2	0.01	99.66
125.0-126.0	19.6	1.8	18918.0	0.01	99.67
126.0-127.0	20.2	1.8	18919.8	0.01	99.68
127.0-128.0	20.8	1.8	18921.6	0.01	99.68
128.0-129.0	21.1	1.8	18923.4	0.01	99.69
129.0-130.0	21.5	1.8	18925.2	0.01	99.70
130.0-131.0	21.9	1.8	18927.0	0.01	99.71
131.0-132.0	22.1	1.8	18928.8	0.01	99.72
132.0-133.0	21.5	1.7	18930.6	0.01	99.73
133.0-134.0	21.5	1.7	18932.3	0.01	99.74
134.0-135.0	22.7	1.8	18934.1	0.01	99.75
135.0-136.0	23.0	1.8	18935.8	0.01	99.76
136.0-137.0	22.2	1.7	18937.5	0.01	99.77
137.0-138.0	21.8	1.6	18939.1	0.01	99.78
138.0-139.0	22.8	1.7	18940.8	0.01	99.79
139.0-140.0	22.9	1.6	18942.4	0.01	99.79
140.0-141.0	23.1	1.6	18944.0	0.01	99.80
141.0-142.0	24.2	1.6	18945.7	0.01	99.81
142.0-143.0	23.9	1.6	18947.3	0.01	99.82
143.0-144.0	24.6	1.6	18948.9	0.01	99.83

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 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	25.3	1.6	18950.5	0.01	99.84
145.0-146.0	25.0	1.6	18952.0	0.01	99.85
146.0-147.0	25.5	1.5	18953.6	0.01	99.85
147.0-148.0	24.9	1.5	18955.0	0.01	99.86
148.0-149.0	24.5	1.4	18956.4	0.01	99.87
149.0-150.0	26.1	1.5	18957.9	0.01	99.88
150.0-151.0	27.1	1.5	18959.4	0.01	99.88
151.0-152.0	27.3	1.4	18960.8	0.01	99.89
152.0-153.0	27.5	1.4	18962.2	0.01	99.90
153.0-154.0	27.1	1.3	18963.5	0.01	99.91
154.0-155.0	26.8	1.3	18964.8	0.01	99.91
155.0-156.0	26.5	1.2	18966.0	0.01	99.92
156.0-157.0	27.1	1.2	18967.2	0.01	99.93
157.0-158.0	28.3	1.2	18968.3	0.01	99.93
158.0-159.0	27.7	1.1	18969.5	0.01	99.94
159.0-160.0	27.3	1.1	18970.5	0.01	99.94
160.0-161.0	27.7	1.0	18971.5	0.01	99.95
161.0-162.0	27.5	1.0	18972.5	0.01	99.95
162.0-163.0	28.1	0.9	18973.4	0.00	99.96
163.0-164.0	28.4	0.9	18974.3	0.00	99.96
164.0-165.0	28.9	0.8	18975.1	0.00	99.97
165.0-166.0	29.2	0.8	18975.9	0.00	99.97
166.0-167.0	28.4	0.7	18976.7	0.00	99.98
167.0-168.0	28.5	0.7	18977.3	0.00	99.98
168.0-169.0	29.0	0.6	18978.0	0.00	99.98
169.0-170.0	29.7	0.6	18978.6	0.00	99.99
170.0-171.0	29.6	0.5	18979.1	0.00	99.99
171.0-172.0	29.4	0.5	18979.6	0.00	99.99
172.0-173.0	30.4	0.4	18980.0	0.00	99.99
173.0-174.0	30.2	0.4	18980.4	0.00	99.99
174.0-175.0	28.8	0.3	18980.7	0.00	100.00
175.0-176.0	28.3	0.2	18980.9	0.00	100.00
176.0-177.0	28.7	0.2	18981.1	0.00	100.00
177.0-178.0	28.8	0.1	18981.3	0.00	100.00
178.0-179.0	28.8	0.1	18981.4	0.00	100.00
179.0-180.0	28.6	0.0	18981.4	0.00	100.00

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 25.4 'C
 Operator:

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