

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P200622

Luminaire Tested: **GPC-AF-02-LED-E1-SL4-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-02-LED-E1-SL4-8030-800-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6647 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

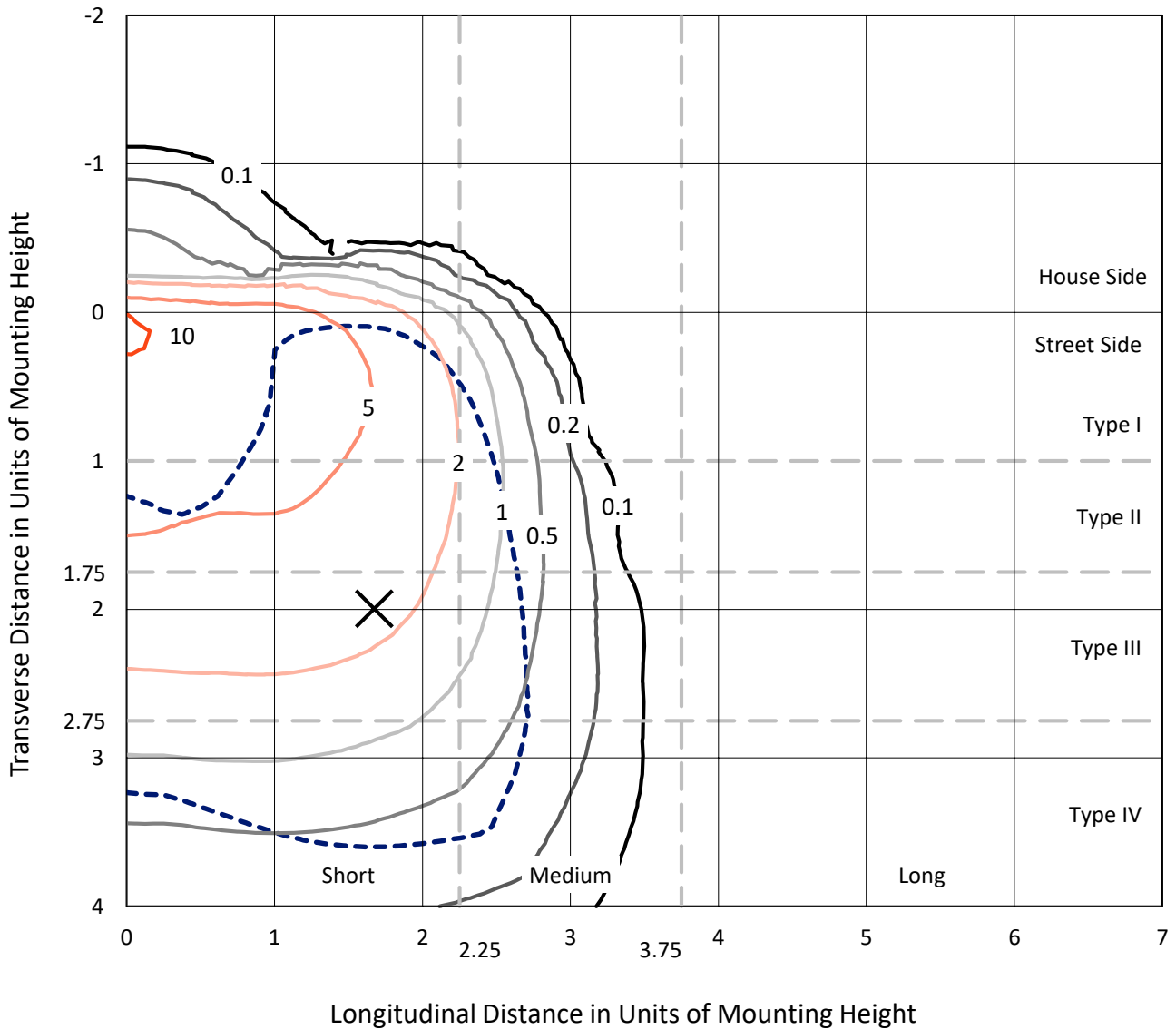


REPORT NUMBER: P200622

CATALOG NUMBER: GPC-AF-02-LED-E1-SL4-8030-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

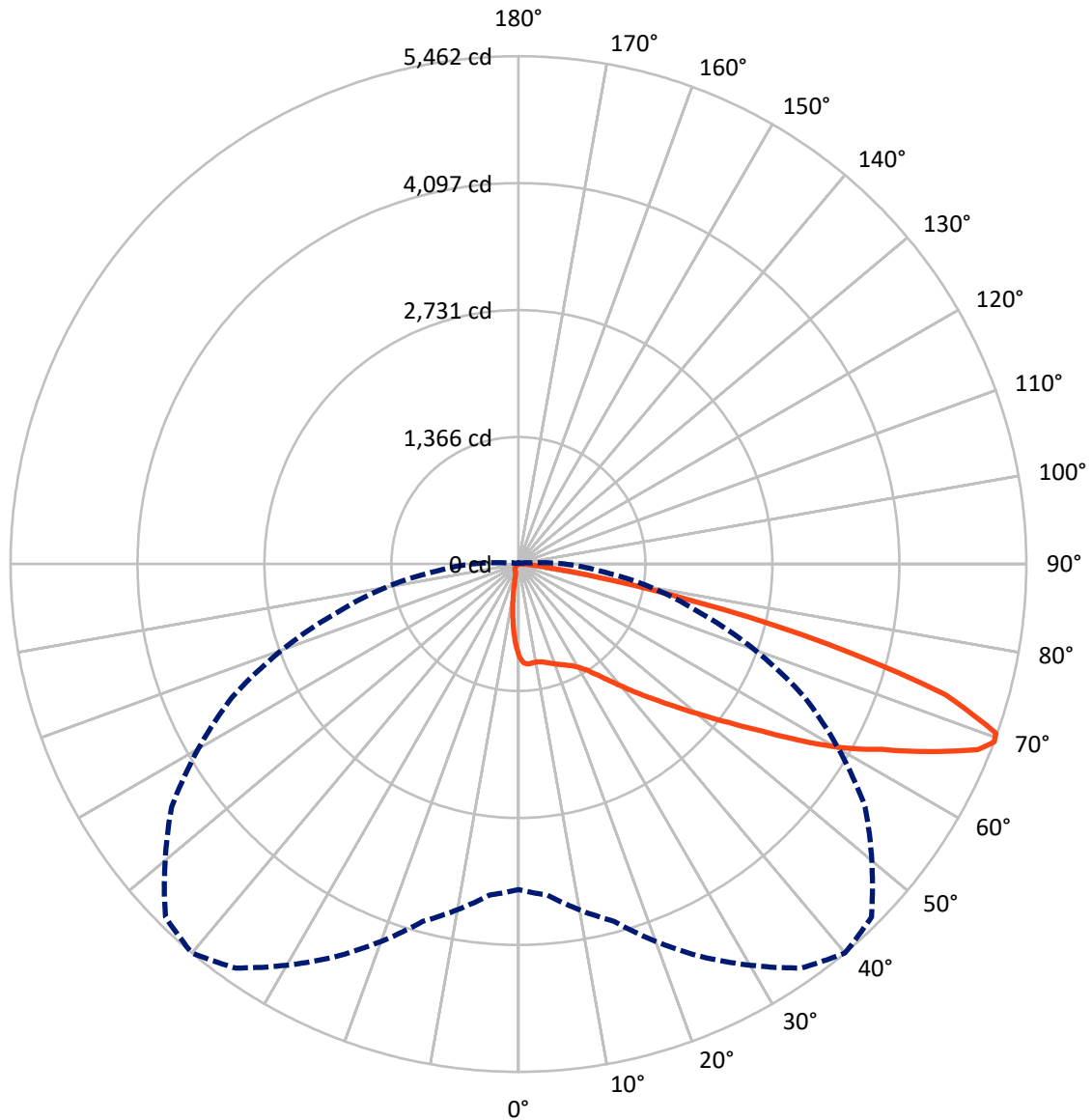


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P200622

CATALOG NUMBER: GPC-AF-02-LED-E1-SL4-8030-800-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P200622

CATALOG NUMBER: GPC-AF-02-LED-E1-SL4-8030-800-HSS

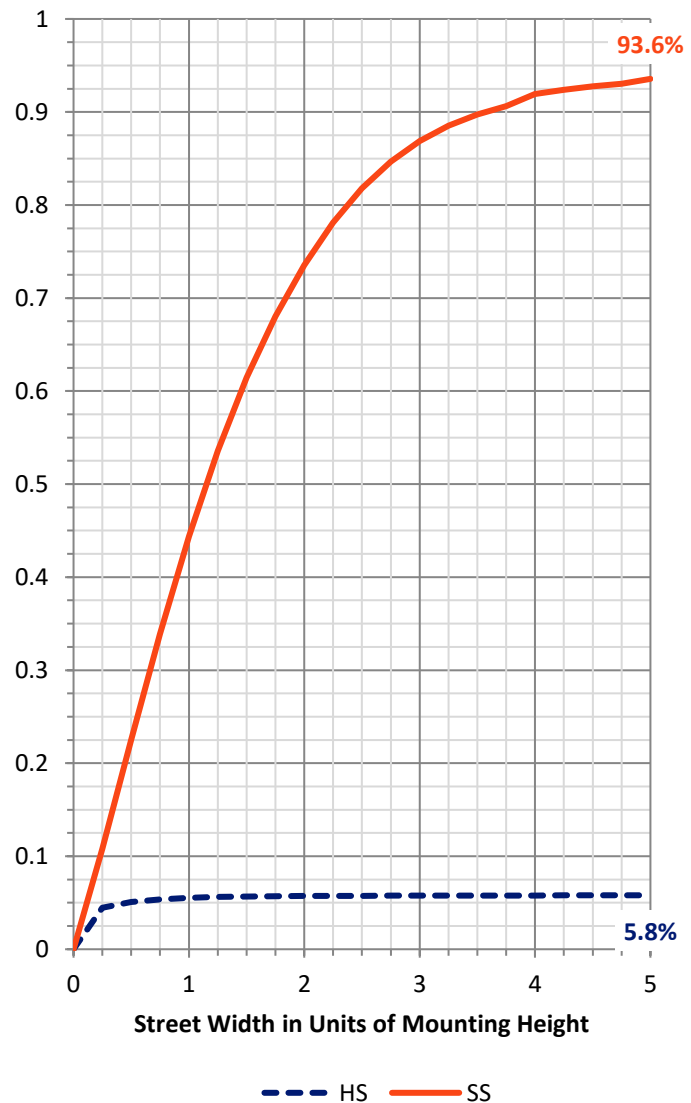
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	388.9	0.0	388.9
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	6258.1	0.0	6258.1
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	6647.0	0.0	6647.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.5	1.2
10°-20°	198.0	3.0
20°-30°	333.5	5.0
30°-40°	546.0	8.2
40°-50°	945.4	14.2
50°-60°	1489.0	22.4
60°-70°	1944.6	29.3
70°-80°	1001.6	15.1
80°-90°	108.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6647.0	100.0
0°-180°	6647.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P200622

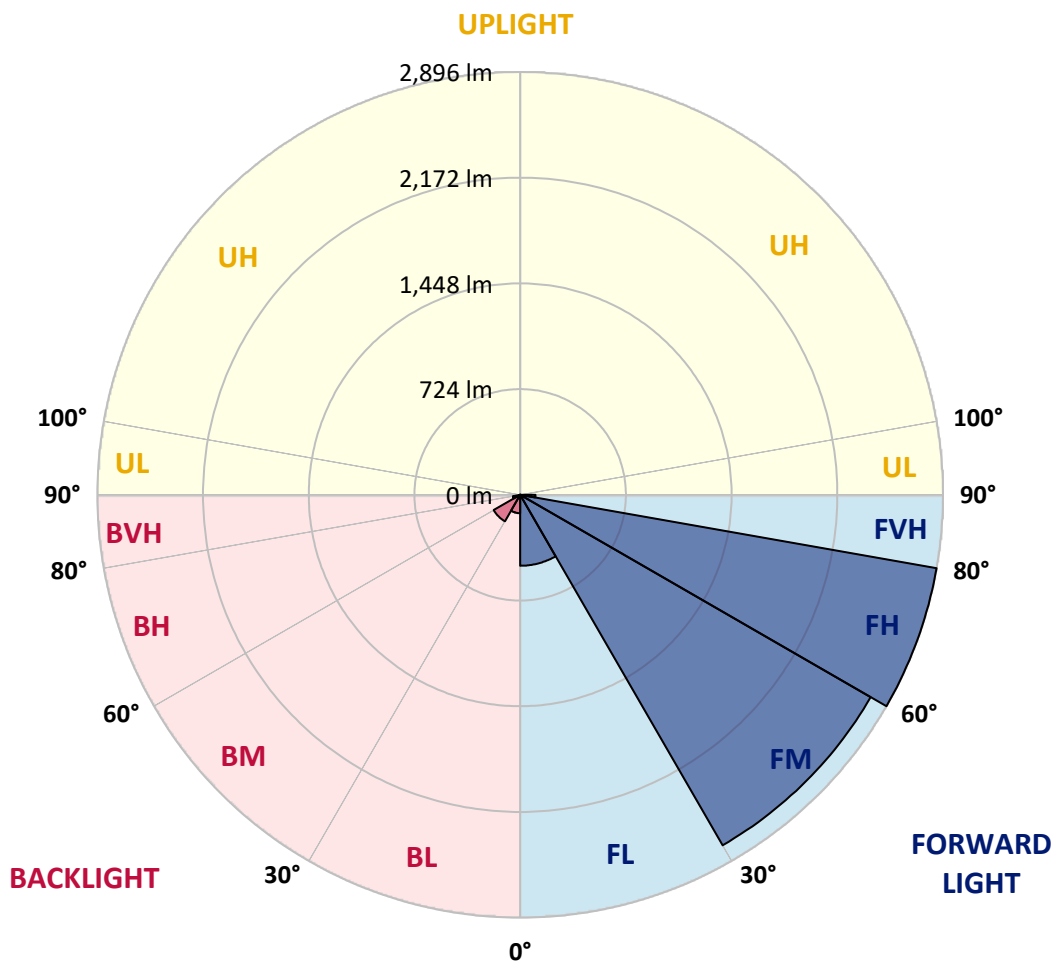
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.1	7.3			
FM	(30°-60°)	2771.4	41.7			
FH	(60°-80°)	2895.7	43.6			G2/5000
FVH	(80°-90°)	104.9	1.6			G2/225
BL	(0°-30°)	126.0	1.9	B1/500		
BM	(30°-60°)	209.0	3.1	B0/220		
BH	(60°-80°)	50.5	0.8	B0/110		G0/110
BVH	(80°-90°)	3.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P200622

CATALOG NUMBER: GPC-AF-02-LED-E1-SL4-8030-800-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
2.5°	1090.4	1084.5	1080.9	1076.2	1070.2	1065.1	1063.1	1048.5	1034.6	1015.6	993.9
5°	1110.6	1108.6	1102.3	1096.0	1088.8	1080.9	1076.6	1059.2	1039.4	1011.7	973.7
7.5°	1112.6	1110.2	1102.3	1093.6	1083.7	1074.2	1066.7	1049.3	1031.1	1003.0	956.7
10°	1109.4	1106.6	1100.7	1091.2	1079.0	1069.9	1062.3	1045.7	1030.3	1005.0	953.5
12.5°	1105.9	1103.1	1100.3	1095.6	1084.9	1078.6	1072.2	1056.4	1042.6	1021.2	965.0
15°	1109.4	1107.8	1111.0	1109.0	1103.1	1097.5	1091.2	1077.0	1064.3	1046.5	986.0
17.5°	1124.5	1124.5	1134.3	1135.5	1130.0	1122.1	1113.0	1098.7	1088.1	1073.0	1010.9
20°	1159.7	1158.5	1171.1	1173.5	1160.1	1147.8	1134.3	1116.9	1108.6	1099.1	1035.4
22.5°	1220.2	1214.7	1222.2	1219.8	1193.3	1174.3	1157.7	1136.3	1132.0	1127.6	1062.7
25°	1298.9	1295.8	1300.9	1277.6	1230.9	1205.2	1185.4	1161.2	1161.2	1165.6	1093.6
27.5°	1413.3	1401.4	1384.0	1342.9	1272.8	1240.0	1218.6	1192.9	1199.6	1215.9	1134.3
30°	1530.4	1517.3	1477.4	1414.1	1323.9	1289.4	1264.5	1237.6	1253.4	1283.1	1188.9
32.5°	1645.9	1631.3	1574.7	1494.8	1397.1	1362.6	1338.5	1308.8	1335.3	1385.2	1268.9
35°	1757.9	1744.8	1679.6	1585.4	1494.4	1465.9	1443.7	1418.0	1452.1	1521.7	1381.6
37.5°	1883.7	1869.5	1789.9	1687.9	1612.7	1592.1	1575.9	1550.2	1609.5	1711.6	1538.7
40°	2038.4	2014.3	1907.1	1805.4	1749.6	1739.7	1728.6	1725.1	1817.2	1958.5	1748.0
42.5°	2215.7	2176.1	2029.7	1929.2	1899.9	1907.1	1904.3	1920.1	2077.2	2265.5	2002.8
45°	2392.9	2341.9	2166.2	2061.4	2065.3	2090.2	2105.7	2169.0	2402.8	2617.7	2277.0
47.5°	2543.3	2493.0	2297.2	2204.2	2251.7	2300.7	2342.7	2462.6	2737.5	2964.3	2490.3
50°	2671.9	2624.4	2436.1	2361.3	2468.1	2547.2	2615.3	2792.9	3097.6	3228.2	2639.8
52.5°	2777.1	2745.5	2580.1	2541.3	2715.4	2831.3	2931.0	3143.9	3416.5	3442.6	2756.1
55°	2879.6	2857.0	2734.8	2755.3	3005.8	3163.7	3289.9	3516.2	3691.1	3621.4	2867.7
57.5°	2997.5	2976.9	2911.2	3026.8	3387.6	3586.2	3723.9	3846.2	3932.8	3804.2	2973.0
60°	3117.8	3105.9	3107.5	3328.3	3826.0	4016.7	4092.7	4124.3	4170.2	3976.3	2978.9
62.5°	3232.5	3255.1	3331.8	3663.8	4245.8	4392.2	4430.6	4461.8	4408.0	4003.6	2752.2
65°	3426.8	3463.6	3646.8	4112.8	4707.5	4864.2	4903.8	4796.5	4445.6	3650.7	2238.6
67.5°	3521.7	3589.0	3915.8	4531.4	5155.4	5329.5	5314.8	4818.3	3989.4	2783.8	1436.6
69°	3501.9	3573.6	3977.9	4659.6	5304.2	5462.0	5369.0	4552.0	3398.7	2016.7	881.9
70°	3423.6	3496.0	3945.9	4654.9	5323.2	5448.2	5268.6	4223.2	2873.6	1474.6	551.5
72.5°	2859.0	2921.5	3503.1	4207.4	4903.8	4802.1	4407.6	2925.9	1400.2	401.6	124.2
75°	1759.9	1794.7	2513.6	3169.6	3703.7	3442.6	2936.6	1455.6	417.4	113.6	68.8
77.5°	929.8	945.6	1376.1	1868.3	2347.8	1942.7	1505.1	567.8	192.3	71.2	49.9
80°	549.6	561.4	741.1	854.2	1016.0	848.7	601.8	348.6	137.7	44.7	44.3
82.5°	314.5	322.1	537.3	474.8	400.4	341.8	299.5	330.4	82.7	30.1	45.9
85°	115.5	117.1	302.3	361.2	238.2	141.6	148.8	273.8	22.2	19.0	36.0
87.5°	53.8	52.6	155.5	221.2	139.3	89.8	115.9	60.1	8.7	12.3	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P200622

CATALOG NUMBER: GPC-AF-02-LED-E1-SL4-8030-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
2.5°	981.2	966.6	940.1	912.8	885.1	863.7	842.7	826.1	820.6	810.3	811.1
5°	951.2	924.3	868.9	812.7	754.1	705.8	660.3	623.6	605.7	587.5	587.5
7.5°	925.0	885.9	799.2	707.8	613.3	533.7	462.1	408.3	378.6	354.9	354.5
10°	915.2	862.1	741.1	610.1	478.3	369.9	284.9	230.3	202.2	184.0	183.2
12.5°	919.5	853.8	696.4	519.9	354.5	237.8	165.0	129.8	117.9	112.4	112.4
15°	932.2	851.5	651.6	431.7	250.5	148.8	109.6	100.1	99.3	99.3	99.3
17.5°	947.6	852.2	605.7	345.8	170.5	106.4	94.6	93.4	94.2	94.2	94.2
20°	963.4	852.6	556.3	266.3	120.3	92.6	89.0	88.6	89.4	89.4	89.8
22.5°	982.8	854.6	506.8	199.0	99.3	87.4	84.7	84.7	85.1	85.1	84.7
25°	1005.0	858.6	455.4	147.6	90.6	83.9	81.5	81.1	81.5	81.1	80.7
27.5°	1032.7	864.1	398.0	115.5	86.6	80.3	78.3	78.3	77.9	77.5	77.2
30°	1067.5	870.4	333.5	98.1	82.7	77.2	75.2	74.8	74.4	73.6	73.6
32.5°	1120.5	884.3	269.8	89.0	78.3	72.8	71.2	71.2	70.4	69.6	69.2
35°	1202.0	911.6	212.9	83.5	73.6	68.1	66.1	66.1	65.3	64.9	64.5
37.5°	1314.8	953.1	165.4	78.3	68.8	62.9	60.9	60.5	59.7	59.0	58.6
40°	1464.7	1004.6	130.2	73.6	64.1	57.8	56.2	55.4	53.8	52.6	52.6
42.5°	1653.0	1063.1	105.6	68.4	58.6	53.0	51.8	50.6	47.9	46.7	46.3
45°	1850.1	1115.7	89.4	62.5	53.0	48.3	47.5	45.5	41.9	40.8	40.8
47.5°	1992.1	1128.0	78.7	57.0	47.9	43.1	42.7	39.2	36.0	35.2	34.8
50°	2080.8	1103.9	70.0	51.4	43.1	38.4	37.2	32.8	30.9	30.1	29.7
52.5°	2140.5	1060.8	62.9	46.7	38.8	34.0	31.3	28.1	26.5	25.7	25.7
55°	2188.4	999.8	55.8	42.3	35.2	30.5	26.5	24.1	22.6	21.8	21.8
57.5°	2201.8	917.1	48.7	38.8	31.7	26.9	22.6	21.0	19.0	18.6	18.6
60°	2104.1	768.0	43.1	34.4	28.5	23.3	19.8	17.8	15.8	15.4	15.0
62.5°	1846.5	594.3	38.0	30.5	24.9	20.2	17.0	14.6	13.1	13.1	13.1
65°	1408.5	398.4	33.2	26.5	21.8	17.0	14.6	11.9	11.1	11.1	11.5
67.5°	843.1	216.8	28.5	22.6	18.6	14.2	12.3	10.3	9.9	10.3	10.3
69°	494.2	127.4	25.7	20.2	16.2	12.7	10.7	9.1	9.9	10.3	10.3
70°	305.1	85.9	23.7	18.2	14.6	11.5	9.9	8.7	9.5	9.9	9.9
72.5°	85.1	44.3	19.0	14.2	11.9	9.5	7.9	7.9	9.1	9.5	9.5
75°	55.4	32.8	14.6	10.7	9.1	7.5	6.7	7.5	8.7	9.1	9.1
77.5°	45.9	26.9	11.9	8.7	7.5	7.1	6.3	6.7	7.9	8.3	8.3
80°	41.9	19.0	9.5	7.9	6.7	6.3	5.9	5.5	7.1	7.5	7.5
82.5°	40.0	15.0	8.3	7.1	6.3	5.5	5.1	5.5	6.3	6.7	7.1
85°	24.9	9.9	7.5	6.7	5.5	5.1	5.1	5.1	5.9	6.3	6.3
87.5°	9.1	7.9	6.7	5.5	4.7	4.7	4.7	4.7	5.1	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)