

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: P191200

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191200  
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: GLEON-AF-02-LED-E1-SL4-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 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: 8169.3 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

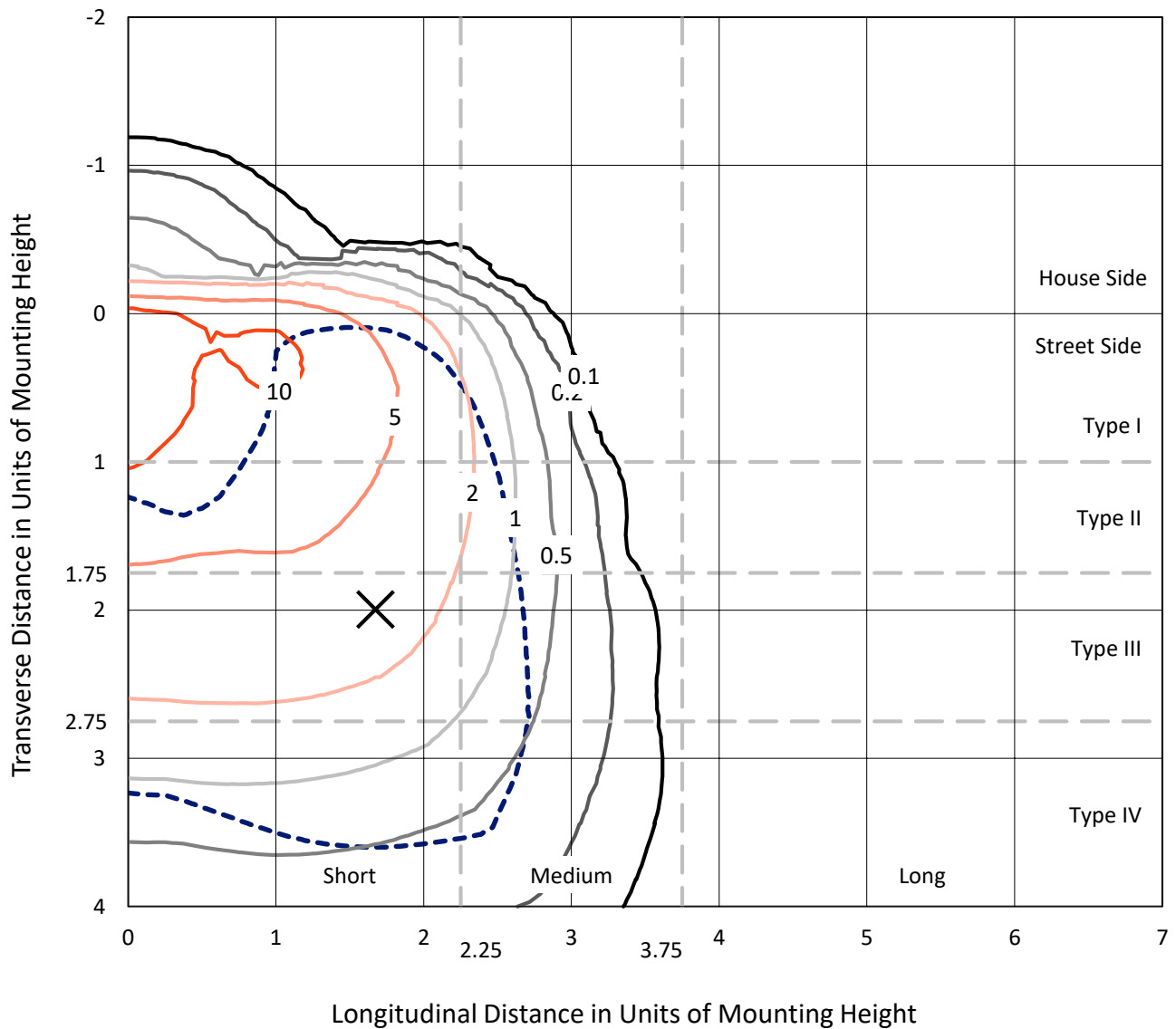


REPORT NUMBER: P191200

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL4-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

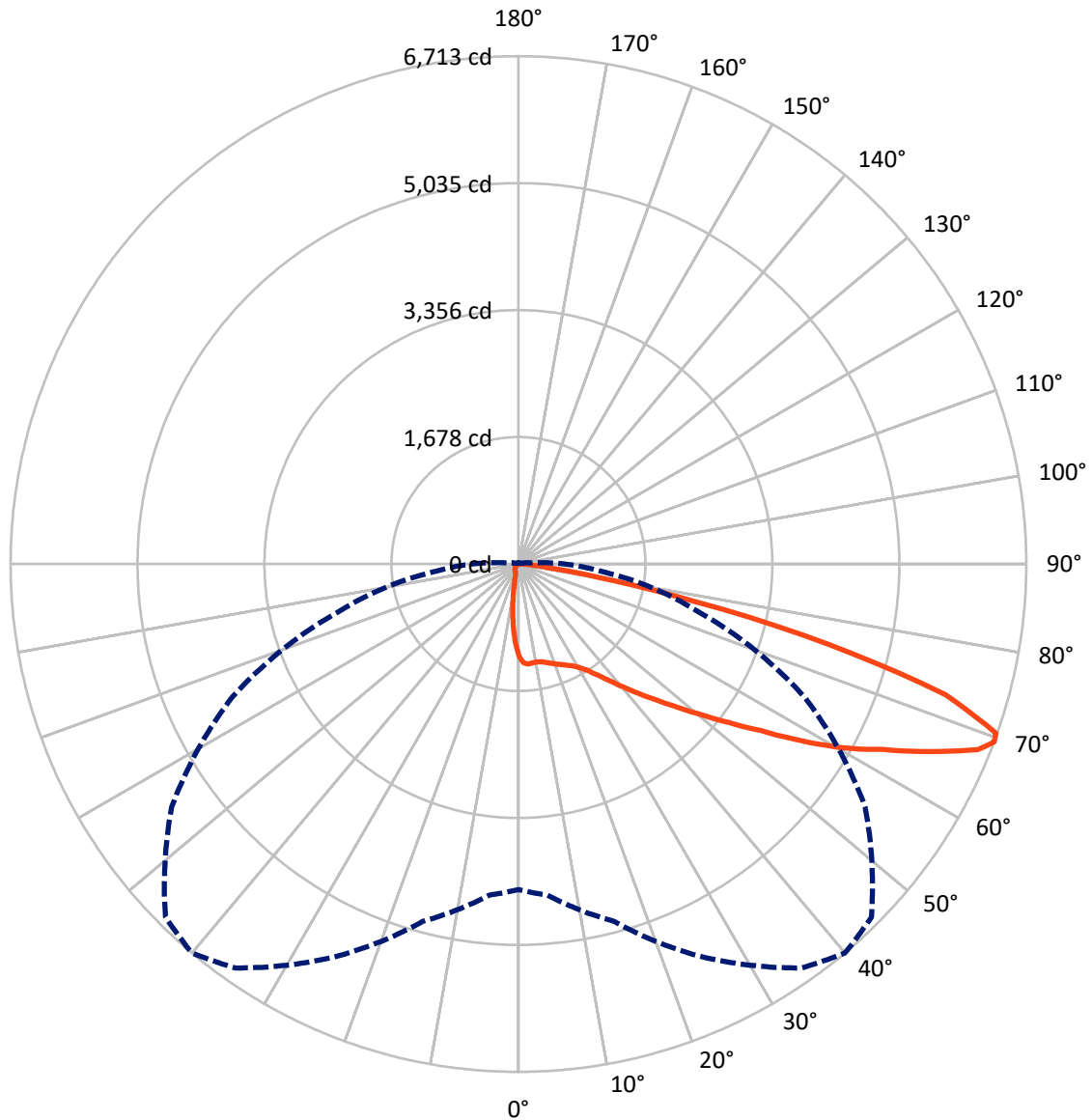
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191200  
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### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191200

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL4-800-HSS

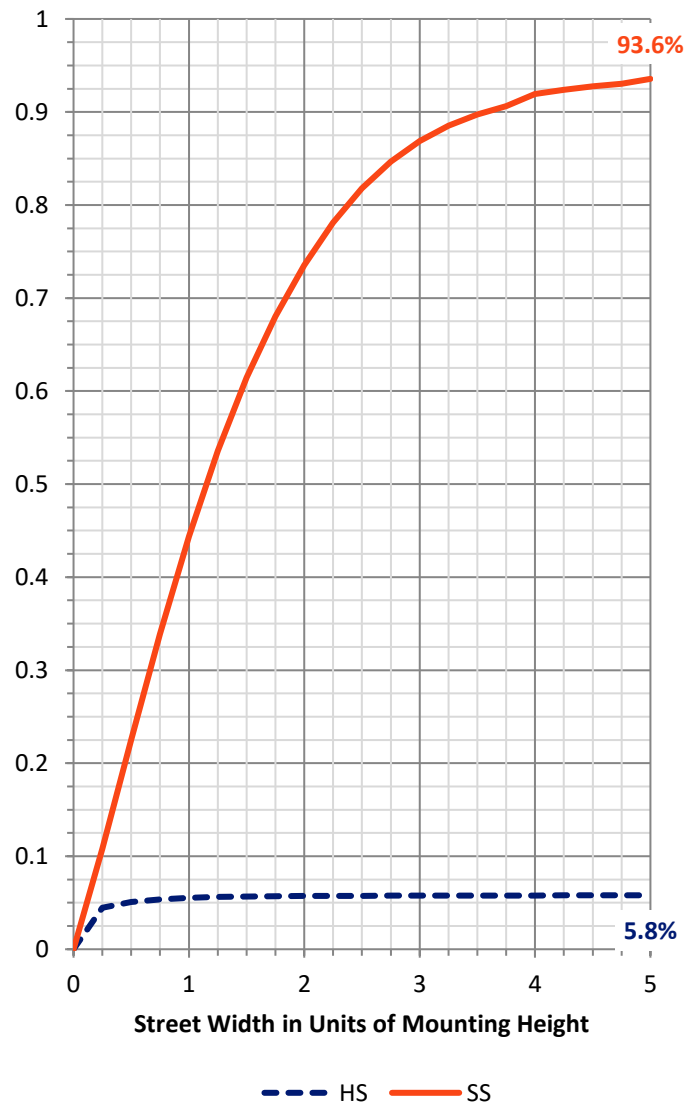
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	477.9	0.0	477.9
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	7691.3	0.0	7691.3
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	8169.3	0.0	8169.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.0	1.2
10°-20°	243.4	3.0
20°-30°	409.9	5.0
30°-40°	671.0	8.2
40°-50°	1161.9	14.2
50°-60°	1830.1	22.4
60°-70°	2390.0	29.3
70°-80°	1230.9	15.1
80°-90°	133.2	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°	8169.3	100.0
0°-180°	8169.3	100.0



REPORT NUMBER: P191200

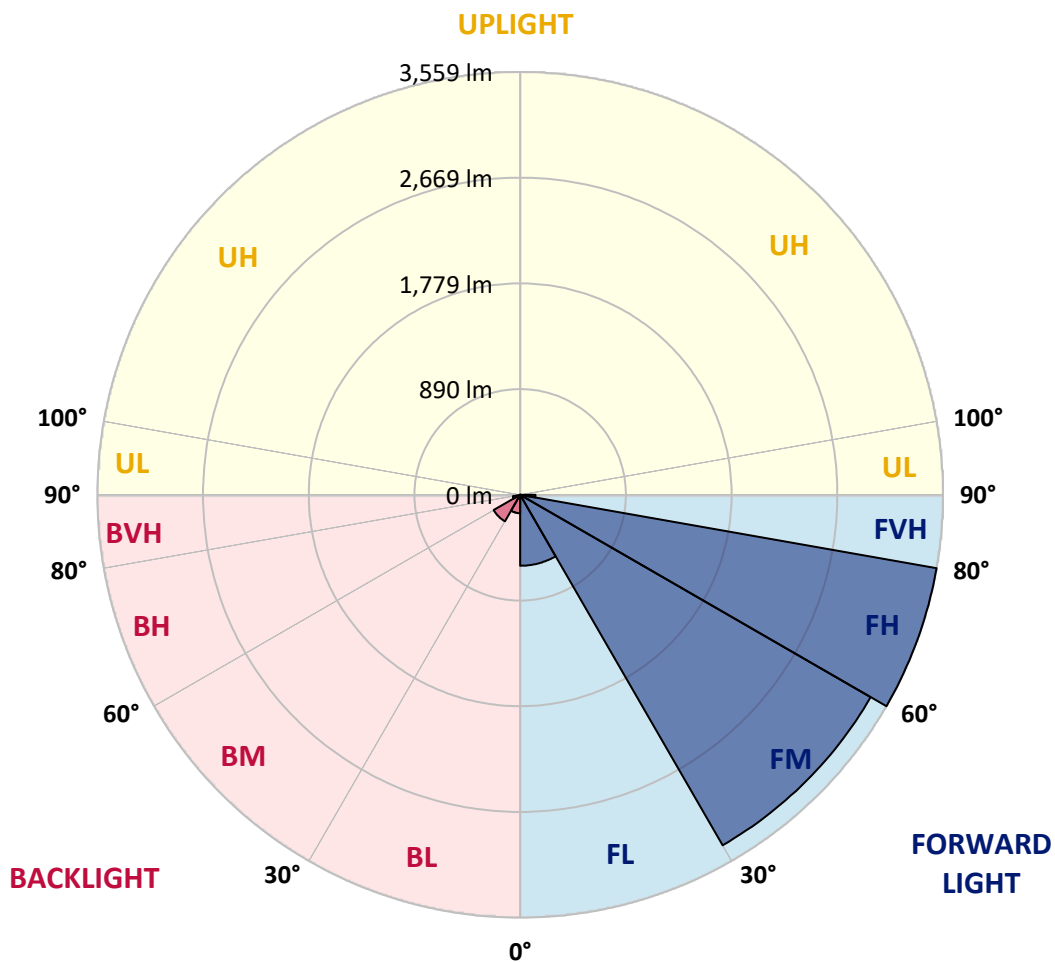
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	597.4	7.3			
FM	(30°-60°)	3406.1	41.7			
FH	(60°-80°)	3558.9	43.6			G2/5000
FVH	(80°-90°)	129.0	1.6			G2/225
BL	(0°-30°)	154.8	1.9	B1/500		
BM	(30°-60°)	256.9	3.1	B1/1000		
BH	(60°-80°)	62.1	0.8	B0/110		G0/110
BVH	(80°-90°)	4.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5
2.5°	1340.2	1332.9	1328.5	1322.7	1315.3	1309.1	1306.6	1288.6	1271.6	1248.2	1221.5
5°	1364.9	1362.6	1354.7	1346.9	1338.2	1328.5	1323.2	1301.7	1277.5	1243.4	1196.8
7.5°	1367.4	1364.5	1354.7	1344.1	1331.9	1320.2	1311.0	1289.6	1267.2	1232.7	1175.8
10°	1363.5	1360.1	1352.8	1341.1	1326.1	1314.9	1305.6	1285.2	1266.2	1235.1	1171.9
12.5°	1359.1	1355.7	1352.3	1346.5	1333.3	1325.5	1317.8	1298.3	1281.3	1255.1	1186.0
15°	1363.5	1361.5	1365.4	1363.0	1355.7	1348.9	1341.1	1323.6	1308.0	1286.2	1211.8
17.5°	1382.0	1382.0	1394.2	1395.6	1388.8	1379.0	1367.9	1350.4	1337.2	1318.8	1242.4
20°	1425.3	1423.7	1439.4	1442.3	1425.8	1410.6	1394.2	1372.7	1362.6	1350.8	1272.6
22.5°	1499.6	1492.9	1502.1	1499.1	1466.6	1443.3	1422.8	1396.5	1391.2	1385.9	1306.1
25°	1596.4	1592.5	1598.9	1570.1	1512.7	1481.1	1456.9	1427.2	1427.2	1432.5	1344.1
27.5°	1737.0	1722.3	1701.0	1650.4	1564.3	1524.0	1497.7	1466.1	1474.4	1494.3	1394.2
30°	1880.9	1864.8	1815.7	1737.9	1627.0	1584.8	1554.1	1521.0	1540.5	1577.0	1461.3
32.5°	2022.9	2004.9	1935.3	1837.1	1717.0	1674.7	1645.0	1608.6	1641.1	1702.4	1559.5
35°	2160.5	2144.4	2064.2	1948.5	1836.6	1801.6	1774.4	1742.8	1784.6	1870.2	1698.1
37.5°	2315.1	2297.6	2199.9	2074.4	1982.1	1956.7	1936.9	1905.2	1978.2	2103.6	1891.1
40°	2505.2	2475.5	2343.8	2218.9	2150.2	2138.2	2124.5	2120.2	2233.4	2407.0	2148.3
42.5°	2723.1	2674.5	2494.6	2371.0	2335.1	2343.8	2340.4	2359.8	2552.9	2784.4	2461.5
45°	2941.0	2878.2	2662.3	2533.4	2538.4	2568.9	2588.0	2665.7	2953.2	3217.2	2798.5
47.5°	3125.7	3063.9	2823.2	2709.0	2767.4	2827.6	2879.2	3026.5	3364.5	3643.1	3060.6
50°	3283.8	3225.5	2994.0	2902.0	3033.4	3130.6	3214.2	3432.6	3807.0	3967.4	3244.4
52.5°	3413.1	3374.2	3170.9	3123.3	3337.3	3479.8	3602.3	3863.9	4198.9	4231.0	3387.3
55°	3539.1	3511.4	3361.1	3386.4	3694.2	3888.2	4043.3	4321.5	4536.4	4450.9	3524.5
57.5°	3684.0	3658.7	3578.0	3720.0	4163.4	4407.5	4576.8	4727.1	4833.5	4675.5	3653.8
60°	3831.8	3817.2	3819.2	4090.5	4702.2	4936.6	5030.0	5068.8	5125.3	4887.0	3661.1
62.5°	3972.8	4000.6	4094.9	4502.8	5218.2	5398.1	5445.3	5483.6	5417.5	4920.6	3382.5
65°	4211.6	4256.8	4482.0	5054.8	5785.6	5978.2	6026.8	5895.1	5463.7	4486.8	2751.3
67.5°	4328.3	4411.0	4812.6	5569.3	6336.1	6550.1	6532.1	5921.8	4903.0	3421.4	1765.6
69°	4304.0	4391.9	4889.0	5726.8	6519.0	6712.9	6598.6	5594.5	4177.0	2478.5	1083.9
70°	4207.7	4296.7	4849.5	5721.0	6542.3	6695.9	6475.2	5190.5	3531.7	1812.4	677.8
72.5°	3513.7	3590.6	4305.4	5171.0	6026.8	5901.8	5417.0	3596.0	1720.9	493.6	152.7
75°	2162.9	2205.7	3089.3	3895.5	4551.9	4231.0	3609.1	1788.9	513.0	139.5	84.6
77.5°	1142.7	1162.2	1691.2	2296.1	2885.5	2387.6	1849.8	697.8	236.3	87.6	61.3
80°	675.5	690.0	910.7	1049.9	1248.7	1043.0	739.6	428.4	169.2	54.9	54.4
82.5°	386.6	395.8	660.3	583.5	492.1	420.1	368.1	406.0	101.6	36.9	56.4
85°	142.0	143.9	371.5	444.0	292.8	174.1	182.8	336.4	27.2	23.3	44.3
87.5°	66.1	64.7	191.1	271.8	171.1	110.4	142.5	74.0	10.7	15.0	12.2
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: P191200

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL4-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5	1220.5
2.5°	1206.0	1188.0	1155.4	1121.9	1087.8	1061.5	1035.7	1015.3	1008.5	995.8	996.9
5°	1169.0	1135.9	1067.9	998.8	926.8	867.5	811.6	766.4	744.5	722.1	722.1
7.5°	1136.9	1088.7	982.2	869.9	753.7	656.0	567.9	501.9	465.3	436.2	435.7
10°	1124.7	1059.6	910.7	749.8	587.9	454.7	350.2	283.1	248.5	226.1	225.2
12.5°	1130.1	1049.3	855.8	638.9	435.7	292.3	202.7	159.5	145.0	138.1	138.1
15°	1145.6	1046.5	800.9	530.5	307.8	182.8	134.7	123.1	122.0	122.0	122.0
17.5°	1164.6	1047.4	744.5	425.0	209.6	130.8	116.2	114.8	115.7	115.7	115.7
20°	1184.1	1047.9	683.7	327.2	147.8	113.8	109.5	108.9	109.9	109.9	110.4
22.5°	1207.9	1050.4	622.9	244.6	122.0	107.5	104.0	104.0	104.5	104.5	104.0
25°	1235.1	1055.2	559.7	181.4	111.4	103.1	100.1	99.6	100.1	99.6	99.2
27.5°	1269.2	1062.0	489.2	142.0	106.5	98.7	96.3	96.3	95.7	95.3	94.8
30°	1311.9	1069.8	409.9	120.6	101.6	94.8	92.4	91.9	91.5	90.4	90.4
32.5°	1377.1	1086.8	331.6	109.5	96.3	89.5	87.6	87.6	86.5	85.6	85.1
35°	1477.2	1120.3	261.6	102.6	90.4	83.7	81.2	81.2	80.2	79.8	79.3
37.5°	1615.9	1171.4	203.3	96.3	84.6	77.3	74.9	74.4	73.4	72.4	72.0
40°	1800.2	1234.6	160.0	90.4	78.8	71.0	69.0	68.1	66.1	64.7	64.7
42.5°	2031.6	1306.6	129.8	84.1	72.0	65.2	63.7	62.2	58.8	57.4	56.9
45°	2273.8	1371.3	109.9	76.8	65.2	59.3	58.3	56.0	51.6	50.1	50.1
47.5°	2448.3	1386.3	96.8	70.1	58.8	53.0	52.5	48.2	44.3	43.3	42.8
50°	2557.3	1356.6	86.0	63.2	53.0	47.2	45.7	40.4	38.0	36.9	36.5
52.5°	2630.7	1303.6	77.3	57.4	47.7	41.8	38.5	34.6	32.5	31.6	31.6
55°	2689.5	1228.8	68.5	52.1	43.3	37.4	32.5	29.7	27.7	26.7	26.7
57.5°	2706.1	1127.2	59.8	47.7	38.9	33.0	27.7	25.8	23.3	22.8	22.8
60°	2586.0	943.9	53.0	42.4	35.0	28.6	24.3	21.9	19.4	18.9	18.5
62.5°	2269.4	730.4	46.6	37.4	30.6	24.8	20.9	18.0	16.1	16.1	16.1
65°	1731.1	489.7	40.8	32.5	26.7	20.9	18.0	14.6	13.6	13.6	14.1
67.5°	1036.2	266.5	35.0	27.7	22.8	17.5	15.0	12.7	12.2	12.7	12.7
69°	607.3	156.6	31.6	24.8	19.9	15.5	13.1	11.2	12.2	12.7	12.7
70°	374.9	105.6	29.2	22.4	18.0	14.1	12.2	10.7	11.7	12.2	12.2
72.5°	104.5	54.4	23.3	17.5	14.6	11.7	9.7	9.7	11.2	11.7	11.7
75°	68.1	40.4	18.0	13.1	11.2	9.2	8.3	9.2	10.7	11.2	11.2
77.5°	56.4	33.0	14.6	10.7	9.2	8.8	7.8	8.3	9.7	10.2	10.2
80°	51.6	23.3	11.7	9.7	8.3	7.8	7.3	6.9	8.8	9.2	9.2
82.5°	49.1	18.5	10.2	8.8	7.8	6.9	6.3	6.9	7.8	8.3	8.8
85°	30.6	12.2	9.2	8.3	6.9	6.3	6.3	6.3	7.3	7.8	7.8
87.5°	11.2	9.7	8.3	6.9	5.8	5.8	5.8	5.8	6.3	7.3	7.3
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)