

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: P191288

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-SLL-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42792.1 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

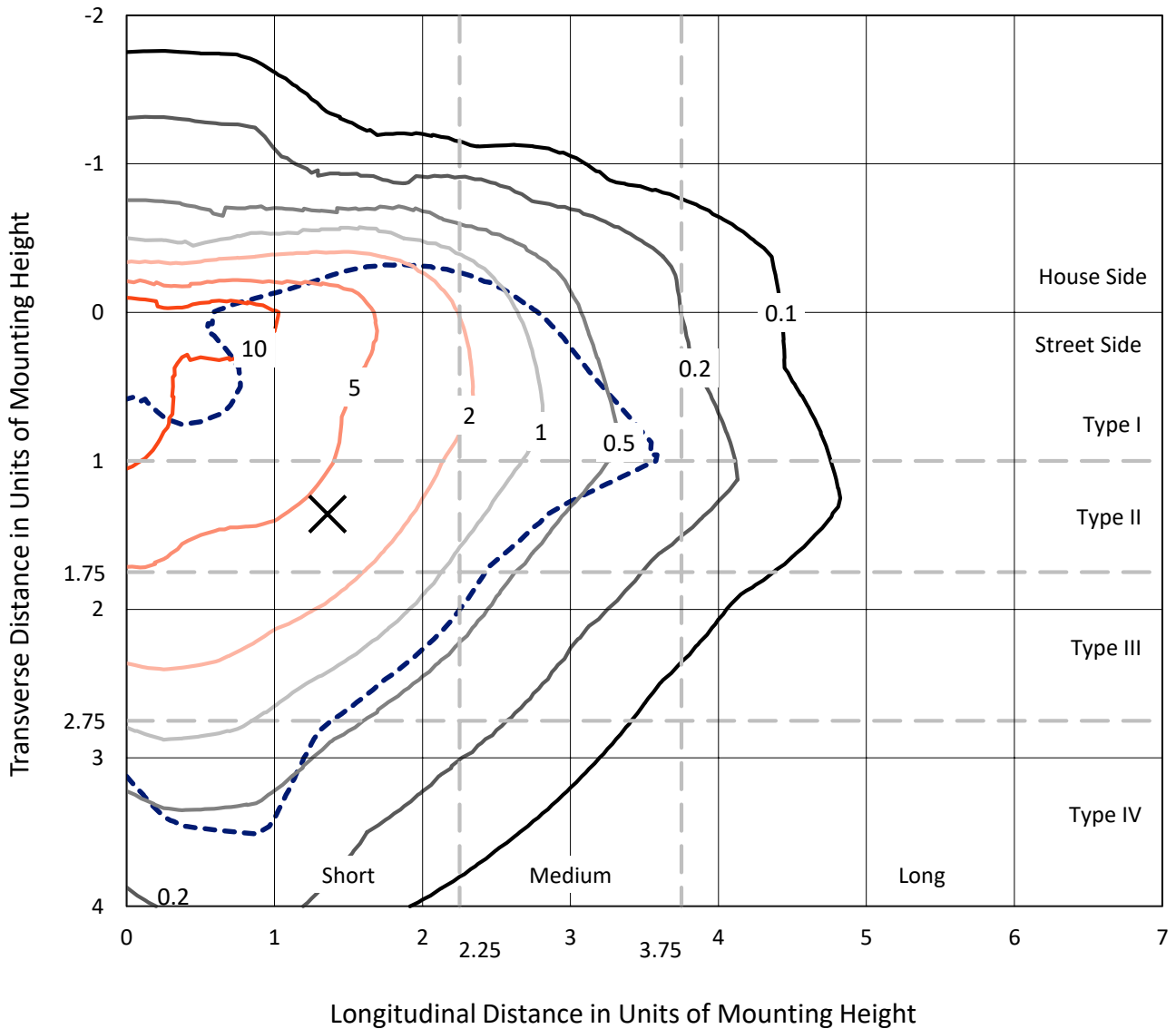
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

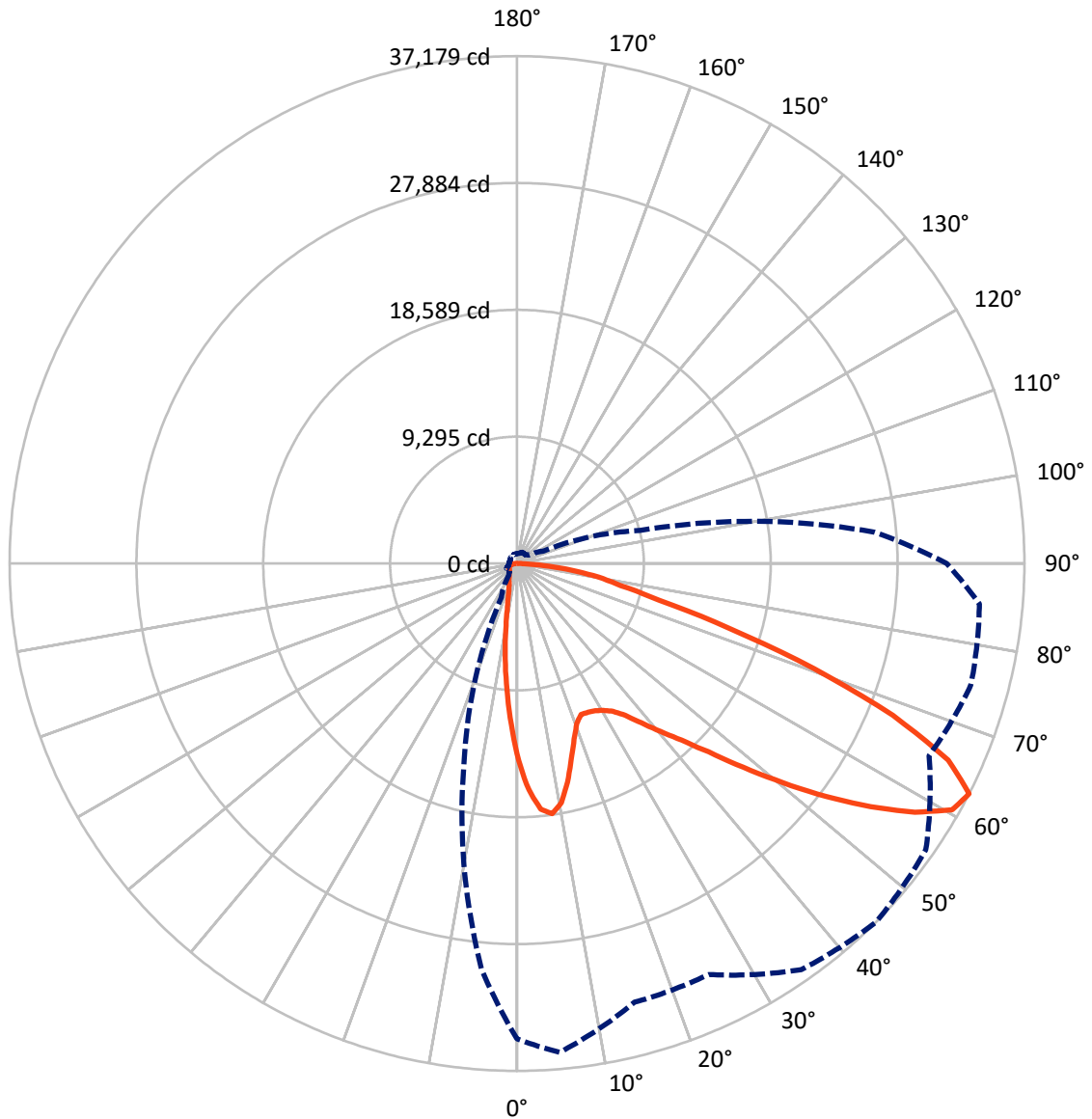
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7081.5	0.0	7081.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	35710.6	0.0	35710.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	42792.1	0.0	42792.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1052.4	2.5
10°-20°	1929.9	4.5
20°-30°	2813.8	6.6
30°-40°	4333.6	10.1
40°-50°	6377.9	14.9
50°-60°	9355.1	21.9
60°-70°	10457.6	24.4
70°-80°	5119.9	12.0
80°-90°	1351.8	3.2
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°	42792.1	100.0
0°-180°	42792.1	100.0



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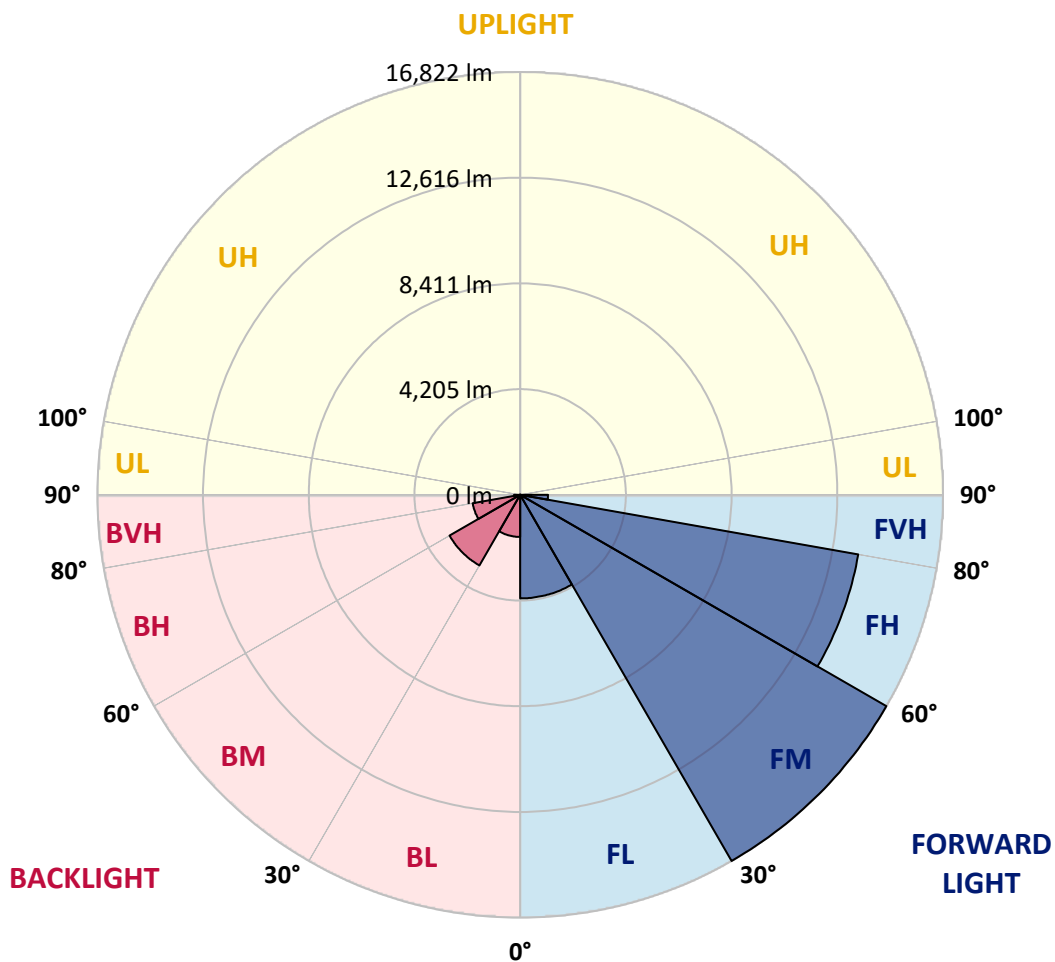
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4120.7	9.6			
FM	(30°-60°)	16821.9	39.3			
FH	(60°-80°)	13657.8	31.9			G5
FVH	(80°-90°)	1110.1	2.6			G5
BL	(0°-30°)	1675.4	3.9	B3/2500		
BM	(30°-60°)	3244.7	7.6	B3/5000		
BH	(60°-80°)	1919.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	241.6	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5
2.5°	15022.0	15262.0	15730.1	16080.6	16506.3	16605.2	16741.6	16607.5	16369.9	16054.7	15951.2
5°	14125.8	14638.6	15774.8	16774.6	17663.7	18077.7	18193.0	17851.9	17162.7	16257.0	15704.2
7.5°	12688.5	13417.7	14956.2	16428.7	17739.0	18512.9	18494.0	17701.3	16433.4	14958.5	14071.7
10°	11448.9	12281.5	14045.8	15692.5	17082.7	17833.1	17543.7	16529.9	15017.3	13318.9	12356.8
12.5°	10754.9	11571.1	13361.3	15015.0	16177.0	16435.8	16214.7	15222.0	13796.4	12079.2	11237.1
15°	10634.9	11531.1	13088.5	14433.9	15085.6	14859.7	14596.3	14151.7	13144.8	11679.3	10802.0
17.5°	11154.8	12142.7	13401.3	14029.4	13918.8	13526.0	13450.7	13500.1	13257.7	12123.9	11112.4
20°	12152.1	13337.7	14147.0	13838.8	13032.0	12490.9	12509.8	13264.8	13982.3	13250.7	12095.7
22.5°	13551.8	14904.4	15222.0	13940.0	12657.9	12015.8	12171.0	13394.2	15137.3	14897.3	13422.4
25°	15363.1	16595.7	16367.5	14306.9	12695.5	12074.5	12199.2	13841.1	16501.6	16544.0	15064.4
27.5°	17118.0	18261.2	17329.7	14793.8	12850.8	12213.3	12378.0	14544.5	17804.9	18331.8	16941.5
30°	18487.1	19282.1	17710.8	15238.5	13156.6	12483.9	12688.5	15212.6	18397.7	19538.6	18385.9
32.5°	19620.8	20192.4	18317.7	15788.9	13718.8	12909.6	13269.5	16024.1	19251.5	20686.4	19799.6
35°	21069.9	21232.2	19072.7	16402.8	14586.9	13650.7	14097.6	16819.3	20065.5	21846.1	21192.2
37.5°	22768.3	22558.9	19785.5	17242.7	15708.9	14810.3	15179.7	17691.9	20735.8	23161.1	22615.4
40°	24447.8	23944.4	20679.4	18545.8	17346.2	16177.0	16614.6	18623.4	21361.6	24478.4	24005.6
42.5°	25875.7	25130.0	21561.6	19978.4	18870.5	17684.9	18207.1	19562.1	21959.1	25602.8	25212.4
45°	26931.9	26005.0	22401.3	21354.5	20971.1	19689.0	19936.1	20637.1	22606.0	26541.4	26205.0
47.5°	27875.2	26884.9	23351.6	22742.4	22808.2	22295.4	21897.9	21888.5	23368.1	27308.3	27143.6
50°	29138.4	28105.8	24372.6	24172.6	25565.2	25224.1	24346.7	23349.3	24332.6	28178.6	28159.8
52.5°	30879.1	30039.4	25619.3	25713.4	28138.7	28362.1	27275.3	25104.1	25842.8	29775.8	29663.0
55°	32937.5	32448.1	27317.7	27484.7	31295.5	31455.4	30375.7	27298.9	28063.4	32088.2	31775.4
57.5°	34544.1	34440.6	29180.8	29611.3	33652.5	34372.4	33379.7	29839.4	30566.3	34036.0	33250.3
60°	35183.9	35684.9	31163.8	31756.6	35833.1	36630.6	35760.2	32071.8	32784.6	34842.8	33149.1
62.5°	34838.1	35957.8	33276.2	33226.8	36320.1	37178.7	36567.1	33313.8	34428.8	34010.1	31471.9
65°	33240.9	34976.9	34501.8	32848.1	34654.6	34725.2	34527.7	32758.7	34816.9	31377.8	28230.4
67.5°	29761.7	32260.0	32888.1	29601.8	30161.7	29703.0	29371.3	29719.5	32794.0	27433.0	23725.7
70°	24240.9	27999.9	28301.0	23676.3	23422.2	23114.1	22453.1	24365.6	28802.0	22483.6	18825.8
72.5°	17823.7	21775.6	22700.1	17365.0	16188.8	16252.3	15730.1	18362.4	23417.5	16701.6	14055.2
75°	12194.5	15767.8	17760.2	12116.9	10705.5	10731.4	10665.5	13010.8	18651.7	11618.2	10517.3
77.5°	8908.3	11265.3	13394.2	8146.2	7908.5	7762.8	7727.5	9103.5	14299.8	8435.5	8167.3
80°	7148.8	8322.5	8997.7	5645.6	6071.4	6059.7	5864.4	6259.5	9338.8	6170.1	6109.1
82.5°	4958.8	6396.0	7289.9	4424.8	4097.7	4029.5	4076.6	4662.3	6600.7	4217.7	4010.8
85°	2615.8	4248.3	7219.4	3921.4	2432.3	1940.6	2413.4	3817.9	5718.5	2234.7	1957.1
87.5°	334.0	1228.0	4779.9	1564.3	959.7	517.5	1145.6	2150.0	3672.0	456.3	397.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5
2.5°	15685.4	15372.5	14963.2	14584.5	14191.7	13801.1	13290.7	12970.8	12749.6	12707.3	12613.2
5°	15304.3	14264.5	13478.9	12799.1	12182.7	11312.4	10830.2	10430.3	10216.2	10195.0	10143.3
7.5°	13547.1	12112.1	11051.2	10089.2	9216.5	8513.1	7736.9	7374.6	7226.4	7261.6	7296.9
10°	11719.3	10115.0	8896.5	7913.2	7144.1	6551.3	5927.9	5506.9	5215.1	5156.3	5144.5
12.5°	10383.3	8623.7	7440.4	6746.5	6151.4	5593.9	4932.9	4436.5	4057.7	3928.4	3841.4
15°	9818.7	7894.4	6654.8	5906.7	5250.4	4542.4	3928.4	3408.6	3060.4	2947.5	2884.0
17.5°	9938.6	7692.2	6113.8	5156.3	4316.5	3577.9	2804.0	2359.4	2150.0	2095.9	2095.9
20°	10569.0	7654.5	5666.7	4464.8	3418.0	2561.7	1926.5	1672.5	1604.3	1597.2	1616.1
22.5°	11453.6	7786.2	5332.7	3864.9	2655.8	1870.2	1500.8	1406.7	1376.1	1383.1	1404.3
25°	12770.8	8230.9	5090.5	3330.9	2084.2	1531.4	1338.5	1282.1	1267.9	1286.8	1312.7
27.5°	14332.8	8675.4	4939.9	2928.7	1759.6	1399.6	1272.7	1213.8	1223.2	1246.8	1270.3
30°	15704.2	9040.0	4702.3	2641.7	1658.4	1406.7	1272.7	1192.7	1183.2	1188.0	1195.0
32.5°	16934.4	9287.1	4424.8	2368.8	1430.2	1249.1	1188.0	1176.2	1124.4	1105.6	1108.0
35°	17995.3	9287.1	4257.7	2208.9	1282.1	1108.0	1009.1	950.3	924.4	926.8	952.7
37.5°	19018.7	9101.2	4175.4	2119.5	1202.1	1053.8	966.8	915.0	879.7	872.7	877.4
40°	19922.0	8830.7	4081.3	2081.8	1140.9	1020.9	938.6	896.2	858.6	846.8	849.2
42.5°	20646.4	8611.9	3977.8	2032.4	1103.3	997.4	919.7	882.1	839.7	828.0	825.6
45°	21429.8	8539.0	3841.4	1933.6	1122.1	999.7	915.0	875.0	832.7	818.6	813.9
47.5°	22462.5	8767.2	3700.2	1816.0	1162.1	1011.5	922.1	875.0	830.3	818.6	813.9
50°	23763.4	9303.5	3521.4	1644.3	1122.1	1044.4	919.7	868.0	830.3	818.6	809.2
52.5°	25433.5	10028.0	3286.2	1446.7	1098.5	1124.4	915.0	853.9	818.6	802.2	785.7
55°	27463.6	10620.8	3006.2	1284.4	1044.4	1103.3	908.0	837.4	799.8	776.3	762.2
57.5°	28950.2	10834.9	2646.4	1178.5	969.1	1068.0	898.6	816.2	776.3	757.5	738.7
60°	28656.2	10420.9	2343.0	1112.7	924.4	964.4	891.5	797.5	755.1	741.0	724.6
62.5°	26301.5	9338.8	2147.7	1082.1	896.2	879.7	898.6	778.7	736.3	722.2	717.5
65°	22770.7	7741.6	2070.0	1075.0	872.7	830.3	835.0	757.5	715.1	703.4	698.7
67.5°	18783.4	6247.8	2001.8	1098.5	842.1	795.1	771.6	729.3	694.0	682.2	672.8
70°	14812.6	5196.3	1971.2	1084.4	804.4	759.8	734.0	698.7	668.1	656.3	649.3
72.5°	11928.7	4389.5	1954.8	1070.3	755.1	712.8	689.3	658.7	625.7	621.0	614.0
75°	10093.9	3450.9	1790.2	1025.6	698.7	656.3	639.9	611.6	578.7	578.7	574.0
77.5°	7786.2	2495.8	1489.0	908.0	639.9	592.8	578.7	557.5	519.9	526.9	524.6
80°	5751.4	1627.8	1164.4	752.8	566.9	522.2	515.2	494.0	454.0	463.4	463.4
82.5°	3940.2	1068.0	837.4	616.3	484.6	442.2	442.2	421.0	376.3	381.0	395.2
85°	1978.3	734.0	625.7	477.5	376.3	355.2	355.2	338.7	294.0	296.3	315.2
87.5°	602.2	442.2	414.0	341.1	270.5	265.9	254.1	242.3	214.1	211.8	223.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5
2.5°	12469.8	12335.7	12173.3	11815.8	11695.8	11688.7	11797.0	11684.0	11900.5	11808.7	11909.9
5°	10056.2	9924.5	9743.4	9287.1	9009.4	8821.3	8731.9	8468.4	8659.0	8520.2	8635.4
7.5°	7395.7	7426.3	7306.3	7038.2	6433.6	6130.2	5951.4	5791.4	5930.3	5916.1	6137.3
10°	5198.6	5281.0	5196.3	4925.8	4436.5	4269.5	4302.4	4366.0	4547.1	4641.1	4982.3
12.5°	3742.6	3737.9	3683.7	3441.5	3119.2	3138.0	3272.1	3382.7	3549.6	3648.5	3996.7
15°	2794.6	2752.2	2728.7	2531.1	2347.7	2387.7	2453.4	2465.2	2571.1	2629.9	2912.2
17.5°	2112.4	2133.6	2159.4	2018.3	1879.5	1853.7	1801.9	1738.4	1769.0	1780.8	1921.8
20°	1677.2	1761.9	1825.5	1726.6	1585.5	1510.2	1444.3	1402.0	1402.0	1399.6	1439.6
22.5°	1465.5	1526.7	1594.9	1526.7	1399.6	1333.8	1296.2	1263.2	1258.5	1258.5	1296.2
25°	1350.2	1394.9	1460.8	1413.7	1319.7	1270.3	1235.0	1192.7	1176.2	1171.5	1197.4
27.5°	1293.8	1312.7	1345.5	1303.2	1223.2	1199.7	1190.3	1152.7	1131.5	1119.7	1145.6
30°	1197.4	1192.7	1195.0	1152.7	1089.1	1086.8	1103.3	1110.3	1103.3	1100.9	1140.9
32.5°	1108.0	1098.5	1096.2	1058.5	999.7	985.6	999.7	1013.8	1030.3	1053.8	1100.9
35°	995.0	1018.6	1032.7	999.7	929.1	886.8	870.3	844.4	830.3	830.3	884.4
37.5°	905.6	959.7	980.9	950.3	872.7	813.9	785.7	781.0	783.4	792.8	844.4
40°	875.0	915.0	933.9	903.3	825.6	771.6	755.1	750.4	755.1	769.3	820.9
42.5°	856.2	884.4	882.1	844.4	781.0	743.4	734.0	729.3	734.0	748.1	804.4
45°	839.7	858.6	839.7	795.1	736.3	717.5	719.9	717.5	722.2	736.3	790.4
47.5°	825.6	832.7	809.2	764.6	703.4	698.7	708.1	715.1	719.9	731.6	788.1
50°	804.4	804.4	783.4	736.3	675.1	677.5	689.3	705.7	708.1	722.2	766.9
52.5°	778.7	776.3	762.2	717.5	651.6	658.7	658.7	677.5	682.2	698.7	745.7
55°	757.5	752.8	745.7	703.4	630.4	642.2	635.2	642.2	654.0	670.4	722.2
57.5°	738.7	729.3	729.3	691.6	614.0	618.7	602.2	611.6	625.7	639.9	694.0
60°	719.9	710.4	715.1	675.1	588.1	583.4	576.3	595.2	599.9	616.3	670.4
62.5°	698.7	691.6	694.0	656.3	569.3	557.5	557.5	574.0	576.3	599.9	651.6
65°	682.2	672.8	670.4	637.5	548.1	534.0	541.0	548.1	552.8	576.3	625.7
67.5°	665.7	646.9	646.9	621.0	524.6	510.5	524.6	522.2	529.3	550.4	590.4
70°	644.6	618.7	621.0	609.3	501.0	484.6	496.3	494.0	498.7	512.8	552.8
72.5°	611.6	590.4	595.2	590.4	477.5	454.0	458.7	458.7	458.7	470.5	512.8
75°	569.3	552.8	566.9	578.7	449.3	416.3	421.0	421.0	414.0	421.0	472.8
77.5°	517.5	508.1	555.2	538.7	416.3	376.3	376.3	371.6	357.5	366.9	423.4
80°	461.0	454.0	512.8	451.6	378.7	326.9	322.2	310.5	296.3	303.4	359.9
82.5°	402.2	395.2	430.5	345.8	326.9	270.5	258.8	237.6	223.5	230.6	282.2
85°	329.3	329.3	331.6	261.2	249.4	207.0	192.9	164.7	148.2	152.9	202.3
87.5°	235.3	242.3	223.5	178.8	148.2	115.3	105.9	89.4	75.3	87.1	105.9
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: P191288

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5
2.5°	12427.4	12686.1	12980.2	13356.6	13678.8	14208.1	14716.3	15022.0
5°	9291.8	9722.2	10258.6	10947.8	11589.9	12554.5	13511.9	14125.8
7.5°	6650.1	7111.1	7689.8	8550.7	9458.7	10689.0	11954.6	12688.5
10°	5502.1	5975.0	6461.9	7042.9	7786.2	9124.7	10620.8	11448.9
12.5°	4551.8	5057.6	5582.1	6193.7	6882.9	8077.9	9802.2	10754.9
15°	3483.9	4048.3	4667.0	5441.0	6304.2	7685.1	9599.9	10634.9
17.5°	2387.7	3018.0	3777.9	4732.9	5789.1	7558.1	9962.1	11154.8
20°	1644.3	2103.0	2914.6	4034.2	5304.5	7541.6	10658.4	12152.1
22.5°	1376.1	1580.8	2173.6	3392.1	4939.9	7743.9	11738.2	13551.8
25°	1272.7	1394.9	1736.0	2834.6	4674.1	8209.7	13224.8	15363.1
27.5°	1211.5	1322.1	1576.1	2469.9	4464.8	8750.7	14671.6	17118.0
30°	1235.0	1347.8	1531.4	2284.1	4180.1	9202.4	15955.9	18487.1
32.5°	1112.7	1162.1	1312.7	2119.5	3975.5	9581.1	17080.3	19620.8
35°	948.0	1035.0	1171.5	2041.8	3980.2	9835.2	18305.9	21069.9
37.5°	903.3	990.3	1089.1	2013.6	4034.2	10105.6	19712.6	22768.3
40°	875.0	955.0	1039.7	1997.1	4086.0	10352.7	21091.1	24447.8
42.5°	856.2	929.1	1035.0	1940.6	4111.9	10573.7	22224.9	25875.7
45°	853.9	929.1	1053.8	1884.2	4151.9	10811.4	23175.3	26931.9
47.5°	856.2	959.7	1018.6	1816.0	4151.9	11208.9	24290.3	27875.2
50°	846.8	1011.5	980.9	1719.6	4055.4	11961.7	25819.3	29138.4
52.5°	842.1	1004.4	908.0	1571.4	3888.4	13156.6	27778.7	30879.1
55°	830.3	969.1	856.2	1350.2	3693.2	14459.8	29877.0	32937.5
57.5°	818.6	858.6	828.0	1157.4	3392.1	15377.2	31321.4	34544.1
60°	917.4	750.4	804.4	1063.3	2989.8	15628.9	31265.0	35183.9
62.5°	849.2	703.4	774.0	1042.1	2707.5	14923.2	29820.6	34838.1
65°	665.7	672.8	743.4	1103.3	2632.3	13053.2	27261.2	33240.9
67.5°	609.3	642.2	712.8	1180.9	2639.3	10451.5	23436.3	29761.7
70°	574.0	609.3	677.5	1220.9	2658.1	7790.9	18529.3	24240.9
72.5°	534.0	564.6	637.5	1228.0	2535.8	5659.7	14281.0	17823.7
75°	486.9	515.2	581.0	1070.3	2100.6	3926.1	10924.3	12194.5
77.5°	432.8	454.0	510.5	825.6	1559.6	2512.3	8200.3	8908.3
80°	369.3	381.0	428.1	604.6	1068.0	1571.4	6487.8	7148.8
82.5°	296.3	301.1	331.6	454.0	694.0	1009.1	4344.8	4958.8
85°	209.4	209.4	228.2	329.3	472.8	639.9	2359.4	2615.8
87.5°	98.8	101.2	101.2	181.2	247.0	324.6	543.4	334.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)