

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: P193866

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193866  
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-08-LED-E1-SLR-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27640 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 334  
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

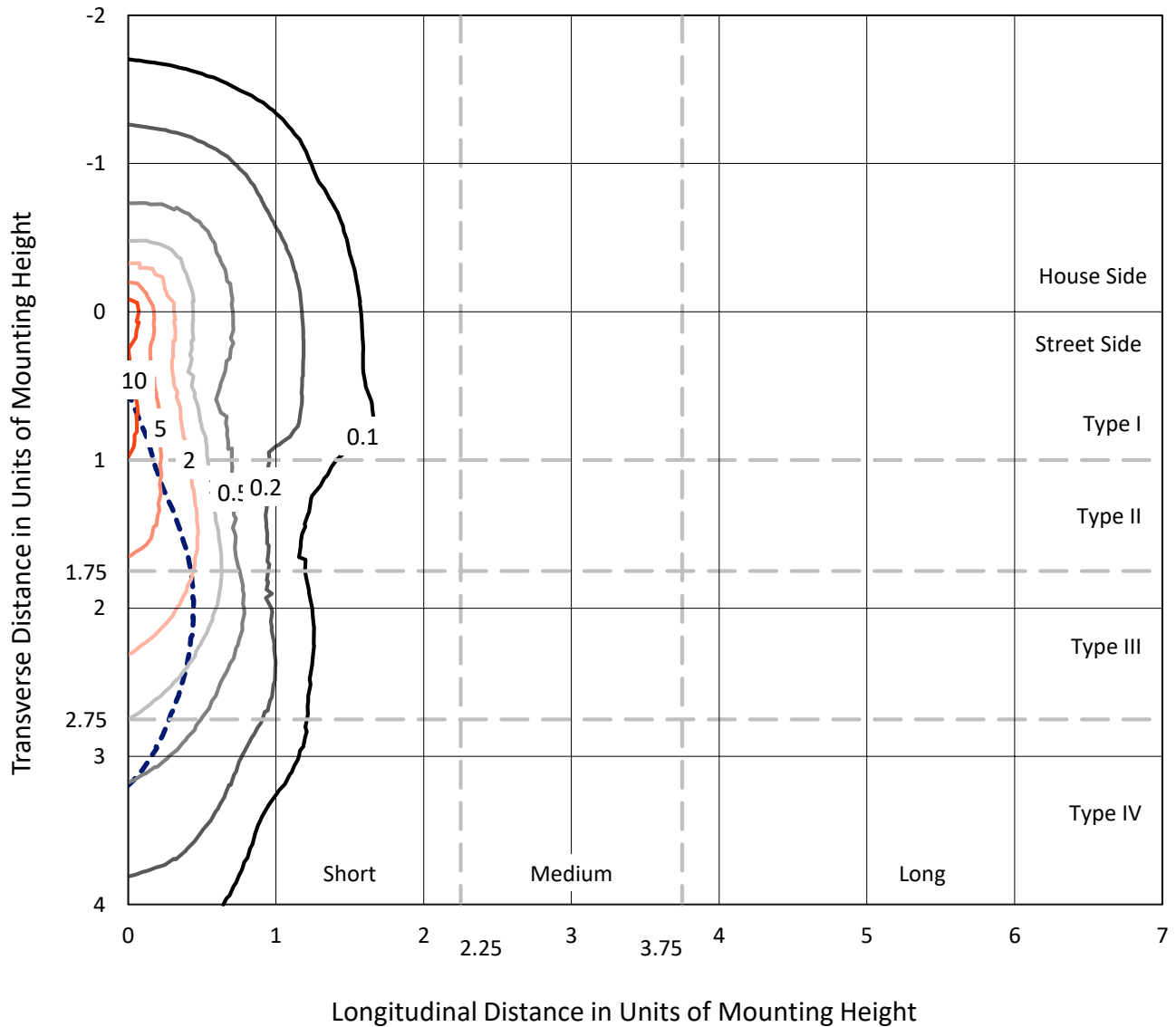


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

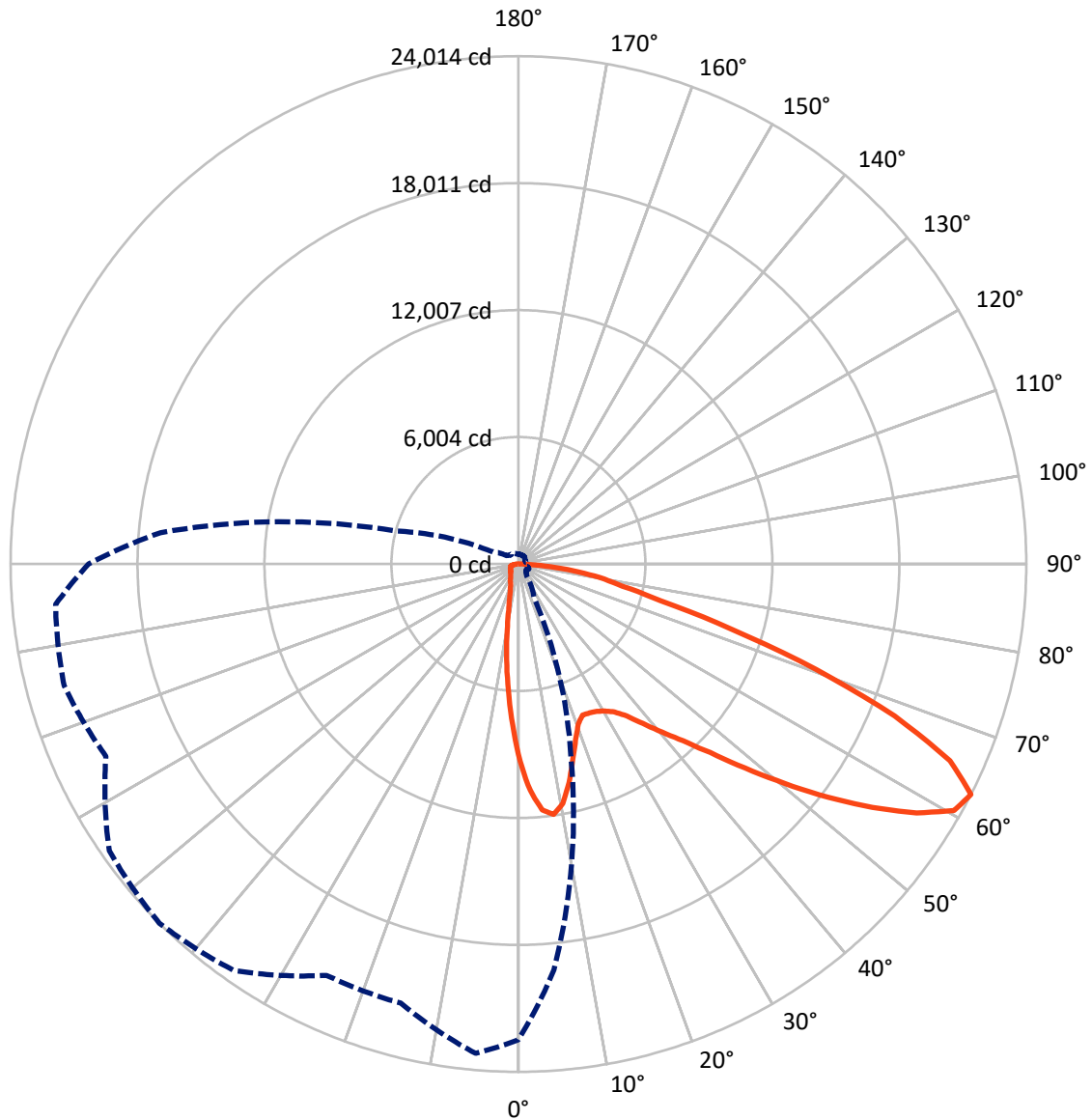


Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4574.0	0.0	4574.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	23066.0	0.0	23066.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	27640.0	0.0	27640.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	679.8	2.5
10°-20°	1246.5	4.5
20°-30°	1817.5	6.6
30°-40°	2799.1	10.1
40°-50°	4119.6	14.9
50°-60°	6042.6	21.9
60°-70°	6754.7	24.4
70°-80°	3307.0	12.0
80°-90°	873.1	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°	27640.0	100.0
0°-180°	27640.0	100.0

**Coefficient of Utilization**



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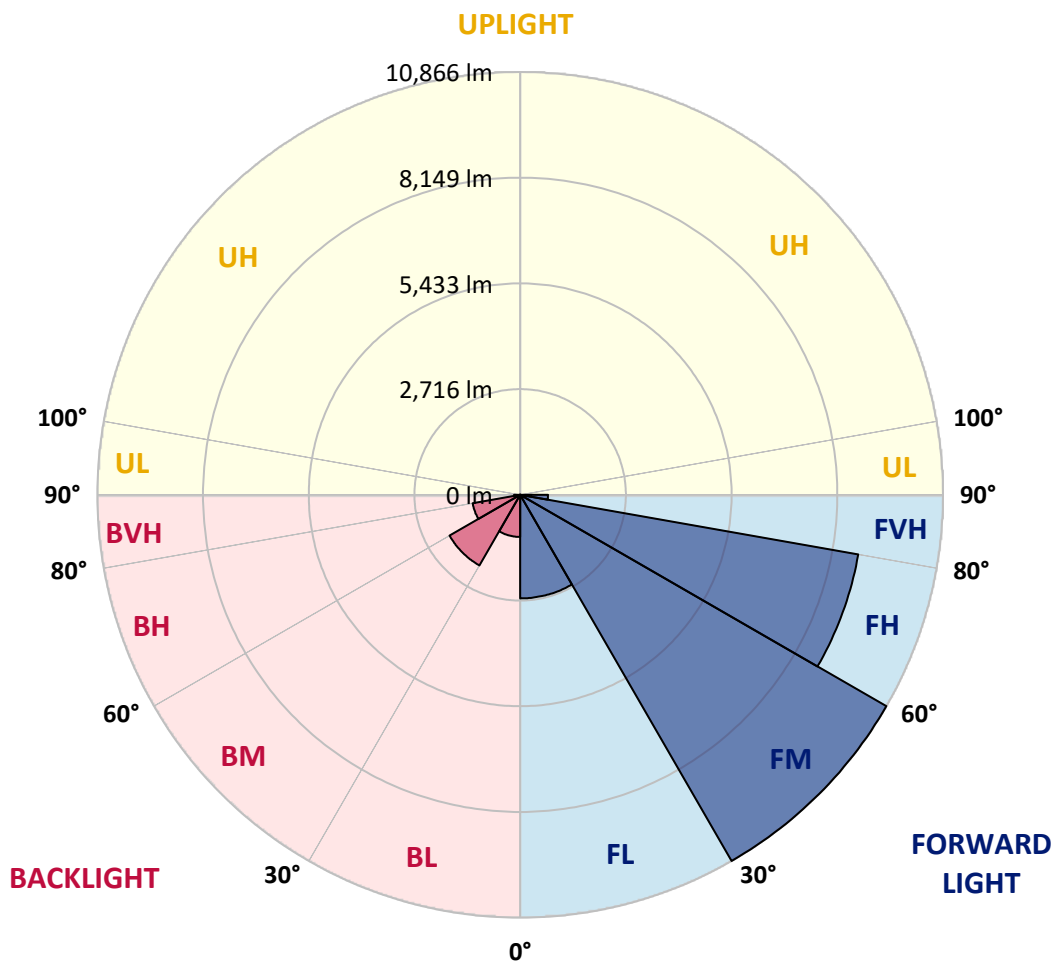
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2661.6	9.6			
FM	(30°-60°)	10865.5	39.3			
FH	(60°-80°)	8821.7	31.9			G4/12000
FVH	(80°-90°)	717.1	2.6			G4/750
BL	(0°-30°)	1082.1	3.9	B3/2500		
BM	(30°-60°)	2095.8	7.6	B2/2500		
BH	(60°-80°)	1240.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	156.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3
2.5°	9702.9	9505.4	9177.2	8835.4	8627.2	8384.1	8194.2	8027.0	7692.8	7627.4	7686.7
5°	9124.0	8727.5	8109.1	7486.1	7071.3	6626.1	6279.7	6001.7	5577.7	5503.3	5592.9
7.5°	8195.7	7721.6	6904.2	6109.5	5523.0	4966.9	4593.2	4295.4	3964.1	3821.3	3830.4
10°	7395.0	6860.1	5893.8	5029.2	4549.1	4173.8	3859.3	3553.9	3218.1	2997.8	2937.0
12.5°	6946.7	6331.4	5217.6	4445.8	4000.6	3605.6	3266.7	2940.1	2581.5	2356.6	2292.8
15°	6869.2	6200.7	4963.9	4072.0	3514.4	3014.5	2614.9	2250.2	1881.0	1698.7	1660.7
17.5°	7205.0	6434.7	4881.9	3739.3	3057.0	2440.2	1949.4	1542.2	1241.4	1150.2	1142.6
20°	7849.3	6884.4	4871.2	3426.3	2605.8	1882.5	1358.4	1062.1	929.9	904.0	905.6
22.5°	8753.3	7581.8	5001.9	3190.8	2191.0	1403.9	1021.0	888.9	837.2	812.9	812.9
25°	9923.3	8542.1	5302.7	3019.1	1830.9	1121.3	901.0	822.0	773.4	756.7	759.7
27.5°	11056.7	9476.5	5652.2	2883.8	1595.4	1018.0	853.9	782.5	740.0	723.2	730.8
30°	11941.0	10306.1	5943.9	2700.0	1475.3	989.1	870.6	797.7	736.9	711.1	712.6
32.5°	12673.4	11032.4	6188.5	2567.8	1369.0	847.8	750.6	718.7	711.1	680.7	665.5
35°	13609.3	11824.0	6352.6	2570.8	1318.8	756.7	668.5	612.3	571.3	536.4	536.4
37.5°	14706.3	12732.6	6527.4	2605.8	1300.6	703.5	639.7	583.5	545.5	512.0	506.0
40°	15791.2	13623.0	6686.9	2639.2	1290.0	671.6	616.9	565.2	530.3	496.8	487.7
42.5°	16713.5	14355.4	6829.7	2655.9	1253.5	668.5	600.2	553.1	519.6	483.2	474.1
45°	17395.7	14969.2	6983.2	2681.8	1217.0	680.7	600.2	551.5	510.5	475.6	466.5
47.5°	18005.0	15689.4	7240.0	2681.8	1173.0	657.9	619.9	553.1	509.0	472.5	464.9
50°	18820.9	16677.0	7726.2	2619.5	1110.7	633.6	653.3	547.0	495.3	466.5	457.3
52.5°	19945.3	17942.7	8498.0	2511.6	1015.0	586.5	648.8	543.9	481.7	451.3	440.6
55°	21274.7	19298.0	9339.8	2385.5	872.1	553.1	626.0	536.4	466.5	433.0	422.4
57.5°	22312.5	20230.9	9932.4	2191.0	747.5	534.8	554.6	528.8	448.2	413.3	404.2
60°	22725.8	20194.5	10094.9	1931.2	686.8	519.6	484.7	592.6	433.0	398.1	387.4
62.5°	22502.4	19261.5	9639.1	1748.8	673.1	499.9	454.3	548.5	420.9	387.4	372.3
65°	21470.8	17608.4	8431.2	1700.2	712.6	480.1	434.6	430.0	404.2	372.3	357.1
67.5°	19223.5	15137.9	6750.7	1704.8	762.7	460.4	414.8	393.5	381.4	355.5	341.9
70°	15657.5	11968.4	5032.3	1716.9	788.6	437.6	393.5	370.7	357.1	331.2	322.1
72.5°	11512.6	9224.3	3655.7	1637.9	793.1	411.8	364.7	344.9	331.2	303.9	296.3
75°	7876.6	7056.1	2535.9	1356.8	691.3	375.3	332.8	314.5	305.4	272.0	267.4
77.5°	5754.0	5296.7	1622.7	1007.4	533.3	329.7	293.2	279.6	273.5	237.0	230.9
80°	4617.5	4190.5	1015.0	689.8	390.5	276.5	246.1	238.5	232.5	196.0	191.4
82.5°	3202.9	2806.3	651.8	448.2	293.2	214.2	194.5	191.4	182.3	148.9	144.3
85°	1689.6	1524.0	413.3	305.4	212.7	147.4	135.2	135.2	130.7	98.8	95.7
87.5°	215.8	351.0	209.7	159.5	117.0	65.3	65.3	63.8	68.4	56.2	48.6
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°	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3
2.5°	7546.9	7619.8	7549.9	7554.5	7632.0	7862.9	7967.8	8054.4	8147.1	8207.8	8235.2
5°	5469.9	5640.0	5697.8	5819.3	5998.6	6293.4	6410.4	6495.5	6551.7	6585.1	6598.8
7.5°	3740.8	3844.1	3959.6	4155.6	4546.1	4719.3	4796.8	4777.0	4713.2	4690.4	4667.6
10°	2820.0	2779.0	2757.7	2865.6	3181.6	3356.4	3411.1	3357.9	3322.9	3330.5	3368.5
12.5°	2184.9	2113.5	2026.9	2014.7	2222.9	2379.4	2414.3	2417.4	2481.2	2537.4	2621.0
15°	1592.3	1584.7	1542.2	1516.4	1634.9	1762.5	1777.7	1805.1	1862.8	1903.8	1976.7
17.5°	1122.8	1163.9	1197.3	1214.0	1303.7	1394.8	1378.1	1364.4	1353.8	1353.8	1388.7
20°	905.6	932.9	975.5	1024.1	1115.2	1179.1	1138.0	1083.3	1043.8	1031.7	1036.2
22.5°	815.9	837.2	861.5	904.0	986.1	1030.2	986.1	946.6	907.1	893.4	888.9
25°	770.3	797.7	820.5	852.4	913.2	943.6	901.0	872.1	847.8	831.1	819.0
27.5°	744.5	768.8	774.9	790.1	841.8	869.1	847.8	835.7	820.5	805.3	790.1
30°	717.2	712.6	702.0	703.5	744.5	771.9	770.3	773.4	771.9	767.3	764.3
32.5°	654.9	645.7	636.6	645.7	683.7	708.0	709.6	715.6	715.6	714.1	726.3
35°	545.5	562.2	572.8	600.2	645.7	667.0	657.9	642.7	615.4	598.6	597.1
37.5°	504.4	507.5	525.7	563.7	613.8	633.6	619.9	585.0	566.7	563.7	568.3
40°	484.7	487.7	498.4	533.3	583.5	603.2	591.0	565.2	548.5	547.0	554.6
42.5°	471.0	474.1	480.1	504.4	545.5	569.8	571.3	553.1	533.3	534.8	542.4
45°	463.4	464.9	463.4	475.6	513.6	542.4	554.6	542.4	525.7	528.8	537.9
47.5°	461.9	457.3	451.3	454.3	493.8	522.7	537.9	533.3	525.7	528.8	536.4
50°	455.8	445.2	437.6	436.1	475.6	506.0	519.6	519.6	522.7	528.8	536.4
52.5°	437.6	425.4	425.4	420.9	463.4	492.3	501.4	502.9	507.5	518.1	528.8
55°	414.8	410.2	414.8	407.2	454.3	481.7	486.2	489.2	492.3	501.4	516.6
57.5°	395.0	389.0	399.6	396.6	446.7	471.0	471.0	477.1	477.1	489.2	501.4
60°	384.4	372.3	376.8	379.9	436.1	461.9	458.9	464.9	468.0	478.6	487.7
62.5°	370.7	360.1	360.1	367.7	423.9	448.2	446.7	451.3	463.4	466.5	475.6
65°	354.0	349.5	344.9	354.0	411.8	433.0	434.6	440.6	451.3	454.3	461.9
67.5°	337.3	338.8	329.7	338.8	401.1	417.8	417.8	430.0	434.6	440.6	448.2
70°	319.1	320.6	313.0	323.6	393.5	401.1	399.6	416.3	419.4	423.9	431.5
72.5°	296.3	296.3	293.2	308.4	381.4	384.4	381.4	395.0	396.6	401.1	404.2
75°	272.0	272.0	268.9	290.2	373.8	366.2	357.1	367.7	370.7	373.8	373.8
77.5°	240.1	243.1	243.1	268.9	347.9	358.6	328.2	334.3	338.8	340.3	335.8
80°	200.6	208.2	211.2	244.6	291.7	331.2	293.2	297.8	299.3	299.3	293.2
82.5°	153.5	167.1	174.7	211.2	223.4	278.1	255.3	259.8	255.3	246.1	243.1
85°	106.4	124.6	133.7	161.1	168.7	214.2	212.7	212.7	203.6	191.4	189.9
87.5°	57.7	68.4	74.5	95.7	115.5	144.3	156.5	151.9	144.3	136.7	138.3
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°	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3
2.5°	8378.0	8584.7	8914.4	9166.6	9420.3	9665.0	9929.3	10131.4	10303.1	10370.0	10573.6
5°	6737.1	6995.4	7306.8	7869.0	8267.1	8706.2	9213.7	9885.3	10143.6	10500.6	11085.6
7.5°	4763.3	4997.3	5498.7	5953.0	6516.7	7138.2	7823.4	8750.3	9089.1	9661.9	10614.6
10°	3556.9	3828.9	4231.6	4614.4	5111.3	5746.4	6533.5	7569.7	7981.4	8602.9	9699.9
12.5°	2865.6	3186.2	3613.2	3973.3	4357.7	4805.9	5570.1	6706.7	7258.2	7802.2	8911.3
15°	2201.6	2537.4	2934.0	3391.3	3815.2	4298.4	5099.1	6342.0	6977.1	7543.9	8490.5
17.5°	1524.0	1811.1	2311.0	2788.1	3330.5	3948.9	4968.5	6419.5	7177.7	7831.0	8563.4
20°	1080.3	1244.4	1654.6	2207.7	2883.8	3660.3	4944.2	6826.7	7812.8	8558.8	9031.4
22.5°	908.6	969.4	1207.9	1715.4	2496.4	3444.5	5029.2	7398.0	8669.7	9622.4	9777.4
25°	828.1	864.5	989.1	1346.2	2151.5	3288.0	5316.4	8248.9	9730.3	10686.0	10658.6
27.5°	784.0	822.0	904.0	1136.5	1891.7	3190.8	5603.6	9257.8	10942.8	11840.7	11500.4
30°	770.3	822.0	908.6	1071.2	1706.3	3037.3	5839.1	10143.6	11875.7	12620.2	11883.3
32.5°	759.7	767.3	806.8	923.8	1530.0	2858.0	5998.6	10938.2	12788.9	13361.7	12434.8
35°	613.8	651.8	715.6	828.1	1426.7	2750.1	5998.6	11623.5	13688.3	14110.7	12960.5
37.5°	591.0	624.5	680.7	776.4	1369.0	2696.9	5878.6	12284.4	14607.6	14960.1	13393.6
40°	578.9	606.2	659.4	736.9	1344.7	2636.2	5703.9	12867.9	15505.6	15811.0	13797.7
42.5°	569.8	594.1	644.2	712.6	1312.8	2569.3	5562.6	13335.8	16285.0	16537.2	14183.7
45°	565.2	591.0	645.7	724.8	1249.0	2481.2	5515.5	13841.8	16926.2	17143.5	14601.5
47.5°	565.2	595.6	653.3	750.6	1173.0	2390.0	5662.8	14508.8	17532.4	17638.8	15093.8
50°	560.7	594.1	674.6	724.8	1062.1	2274.6	6009.3	15349.1	18188.8	18201.0	15716.8
52.5°	551.5	591.0	726.3	709.6	934.4	2122.6	6477.2	16427.8	19159.7	19232.7	16692.2
55°	540.9	586.5	712.6	674.6	829.6	1941.8	6860.1	17739.1	20524.2	20726.2	18126.5
57.5°	527.2	580.4	689.8	626.0	761.2	1709.3	6998.4	18699.4	21476.8	21984.3	19743.2
60°	515.1	575.9	623.0	597.1	718.7	1513.3	6731.0	18509.4	21411.5	22505.5	21176.0
62.5°	502.9	580.4	568.3	578.9	698.9	1387.2	6032.0	16988.5	20328.2	21967.6	22238.1
65°	489.2	539.4	536.4	563.7	694.4	1337.1	5000.4	14707.9	18234.4	20267.4	22488.8
67.5°	471.0	498.4	513.6	543.9	709.6	1293.0	4035.5	12132.5	15324.7	17719.3	21182.1
70°	451.3	474.1	490.8	519.6	700.4	1273.3	3356.4	9567.7	12159.8	14522.5	18603.6
72.5°	425.4	445.2	460.4	487.7	691.3	1262.6	2835.2	7704.9	9078.5	10787.8	15125.7
75°	395.0	413.3	423.9	451.3	662.5	1156.3	2229.0	6519.8	6793.3	7504.4	12047.4
77.5°	360.1	373.8	382.9	413.3	586.5	961.8	1612.1	5029.2	5275.4	5448.6	9236.5
80°	319.1	332.8	337.3	366.2	486.2	752.1	1051.4	3715.0	3945.9	3985.4	6032.0
82.5°	272.0	285.6	285.6	313.0	398.1	540.9	689.8	2545.0	2590.6	2724.3	4263.5
85°	218.8	229.4	229.4	243.1	308.4	404.2	474.1	1277.8	1264.1	1443.4	3693.7
87.5°	156.5	164.1	171.7	174.7	220.3	267.4	285.6	389.0	256.8	294.8	2371.8
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: P193866

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-8030-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3	9338.3
2.5°	10727.0	10813.6	10725.5	10661.7	10386.7	10160.3	9857.9	9702.9
5°	11530.8	11751.1	11676.6	11409.2	10834.9	10189.1	9455.3	9124.0
7.5°	11433.5	11945.6	11957.7	11457.9	10611.5	9660.4	8666.7	8195.7
10°	10676.9	11331.7	11518.6	11033.9	10136.0	9072.4	7932.8	7395.0
12.5°	9832.1	10473.3	10616.1	10449.0	9698.4	8630.2	7474.0	6946.7
15°	9140.8	9427.9	9598.1	9744.0	9323.1	8454.0	7448.1	6869.2
17.5°	8719.9	8688.0	8736.6	8990.3	9061.7	8656.1	7843.2	7205.0
20°	8567.9	8080.2	8068.1	8417.5	8938.7	9137.7	8615.0	7849.3
22.5°	8651.5	7861.4	7761.1	8175.9	9004.0	9832.1	9627.0	8753.3
25°	8940.2	7879.6	7799.1	8200.2	9241.0	10572.0	10719.4	9923.3
27.5°	9394.5	7995.1	7888.8	8300.5	9555.6	11193.5	11795.2	11056.7
30°	9826.0	8195.7	8063.5	8498.0	9842.7	11439.6	12454.6	11941.0
32.5°	10350.2	8571.0	8338.5	8861.2	10198.3	11831.6	13042.6	12673.4
35°	10863.8	9105.8	8817.1	9421.8	10594.8	12319.4	13714.2	13609.3
37.5°	11427.5	9804.7	9566.2	10146.6	11137.3	12779.7	14571.1	14706.3
40°	12029.2	10731.6	10449.0	11204.1	11979.0	13357.1	15466.1	15791.2
42.5°	12635.4	11760.2	11422.9	12188.7	12904.3	13926.9	16231.8	16713.5
45°	13329.8	12877.0	12717.4	13545.5	13793.2	14469.3	16797.1	17395.7
47.5°	14138.1	14144.2	14400.9	14732.2	14689.6	15083.2	17365.3	18005.0
50°	15081.6	15725.9	16292.6	16512.9	15613.4	15742.6	18153.9	18820.9
52.5°	16215.1	17617.5	18319.5	18175.2	16608.6	16547.9	19402.8	19945.3
55°	17632.7	19620.1	20317.5	20214.2	17752.8	17644.9	20958.7	21274.7
57.5°	19273.7	21560.4	22201.6	21736.6	19126.3	18848.3	22245.7	22312.5
60°	20715.6	23098.0	23660.2	23145.1	20512.0	20129.1	23049.4	22725.8
62.5°	21517.9	23619.2	24014.2	23459.7	21461.6	21493.5	23225.7	22502.4
65°	21159.3	22301.9	22429.5	22383.9	21217.0	22285.2	22592.1	21470.8
67.5°	19196.2	18971.3	19185.6	19481.8	19120.2	21242.8	20837.2	19223.5
70°	15738.0	14502.7	14929.7	15128.7	15292.8	18280.0	18085.5	15657.5
72.5°	11860.5	10160.3	10497.6	10456.6	11216.3	14662.3	14065.2	11512.6
75°	8403.8	6889.0	6931.5	6914.8	7826.5	11471.5	10184.6	7876.6
77.5°	5880.1	4991.3	5014.0	5108.2	5261.7	8651.5	7276.4	5754.0
80°	4043.1	3787.9	3914.0	3921.6	3646.6	5811.7	5375.7	4617.5
82.5°	3011.5	2633.1	2602.7	2646.8	2858.0	4708.6	4131.3	3202.9
85°	2466.0	1558.9	1253.5	1571.1	2532.9	4663.1	2744.1	1689.6
87.5°	1388.7	740.0	334.3	619.9	1010.4	3087.4	793.1	215.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)