

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: P193826

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193826  
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-SLL-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 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: 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

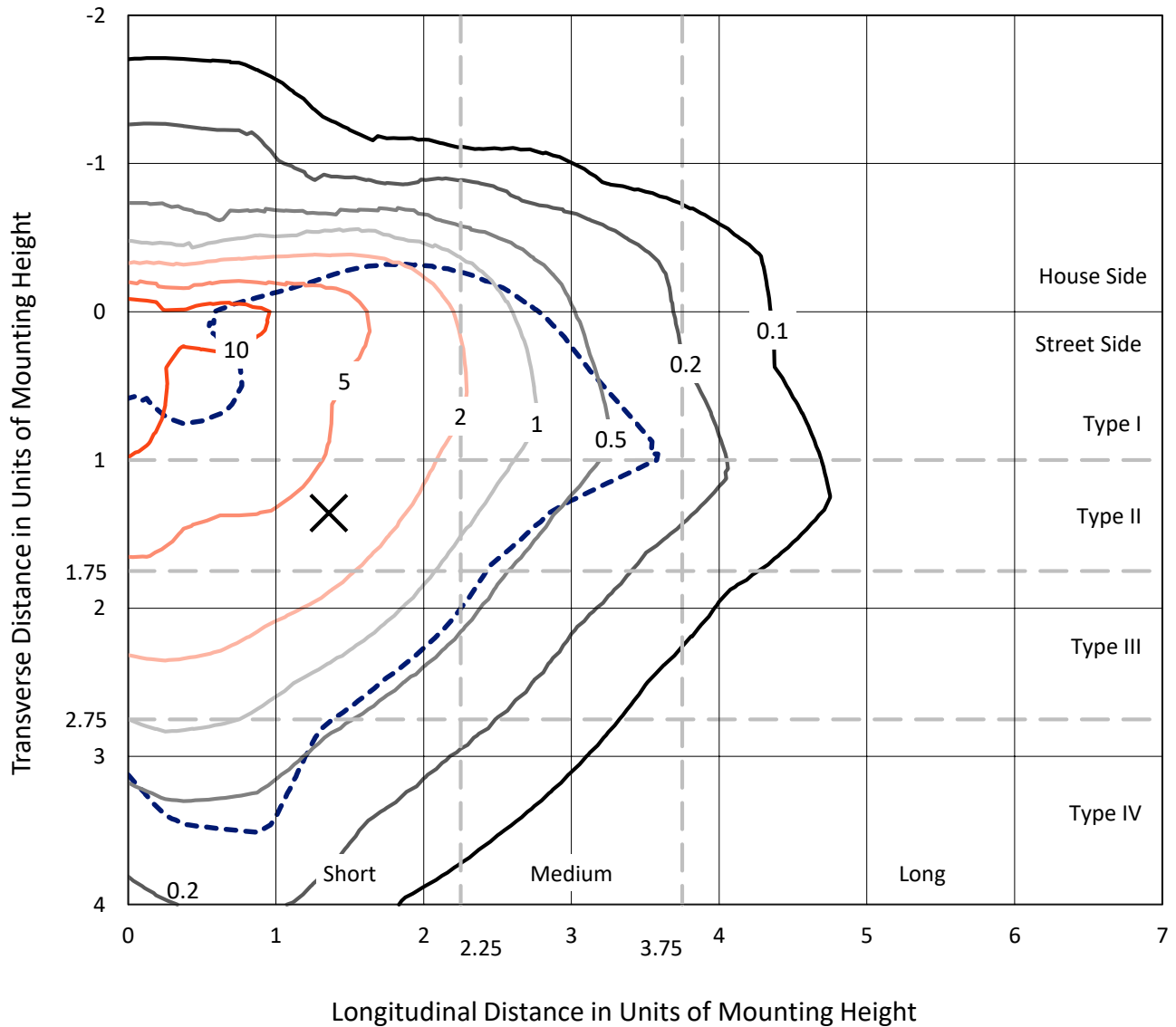
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

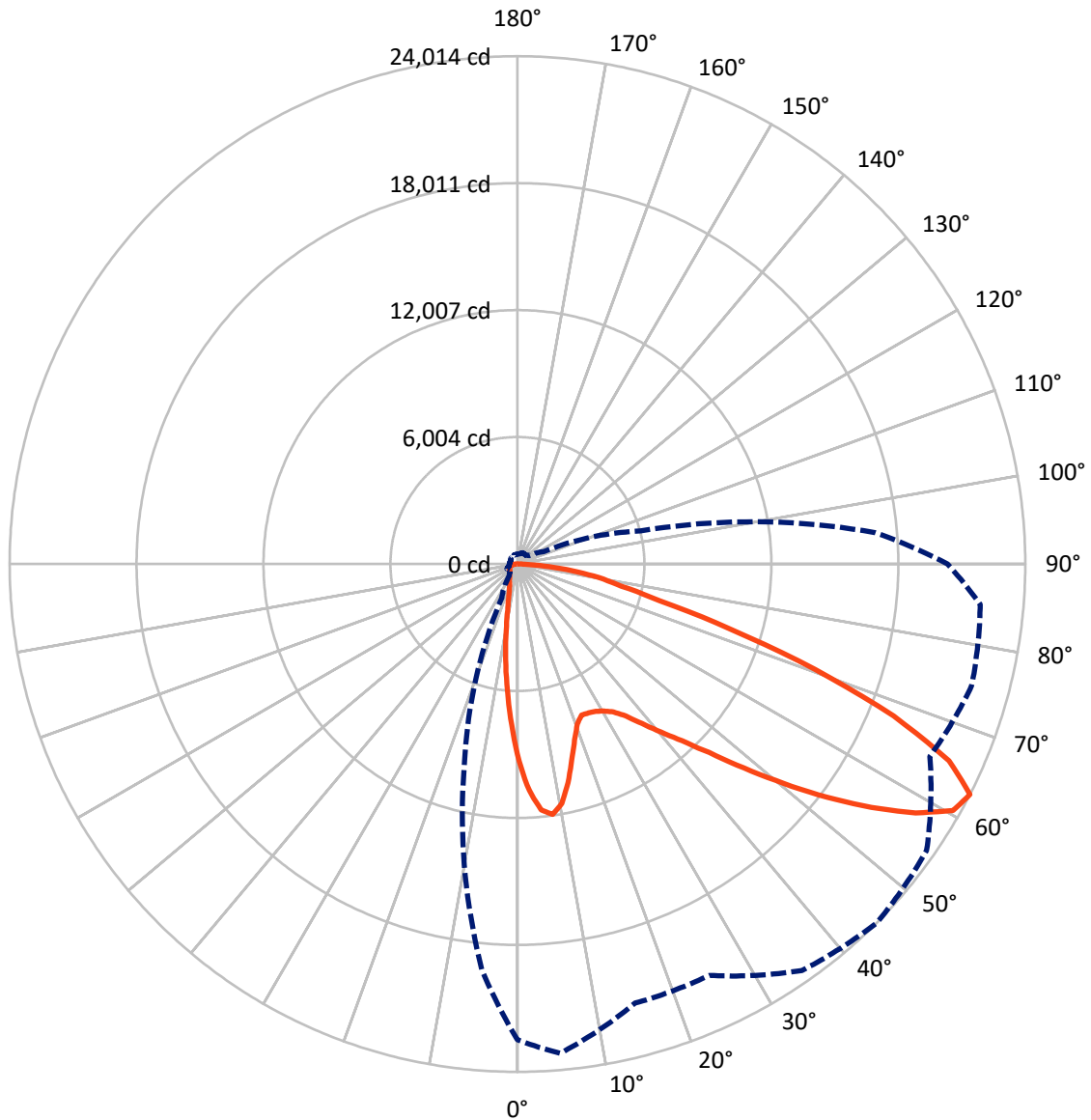
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	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

**Coefficient of Utilization**

**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



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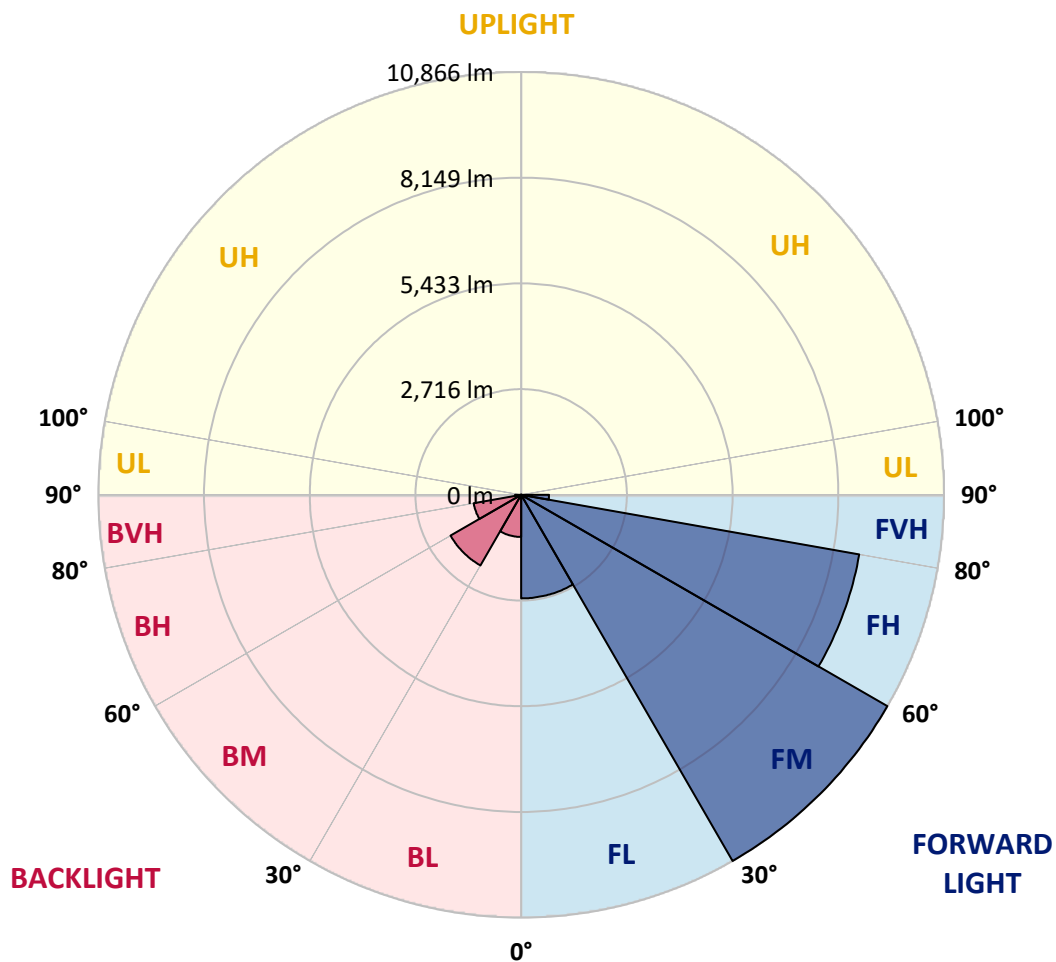
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

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	9857.9	10160.3	10386.7	10661.7	10725.5	10813.6	10727.0	10573.6	10370.0	10303.1
5°	9124.0	9455.3	10189.1	10834.9	11409.2	11676.6	11751.1	11530.8	11085.6	10500.6	10143.6
7.5°	8195.7	8666.7	9660.4	10611.5	11457.9	11957.7	11945.6	11433.5	10614.6	9661.9	9089.1
10°	7395.0	7932.8	9072.4	10136.0	11033.9	11518.6	11331.7	10676.9	9699.9	8602.9	7981.4
12.5°	6946.7	7474.0	8630.2	9698.4	10449.0	10616.1	10473.3	9832.1	8911.3	7802.2	7258.2
15°	6869.2	7448.1	8454.0	9323.1	9744.0	9598.1	9427.9	9140.8	8490.5	7543.9	6977.1
17.5°	7205.0	7843.2	8656.1	9061.7	8990.3	8736.6	8688.0	8719.9	8563.4	7831.0	7177.7
20°	7849.3	8615.0	9137.7	8938.7	8417.5	8068.1	8080.2	8567.9	9031.4	8558.8	7812.8
22.5°	8753.3	9627.0	9832.1	9004.0	8175.9	7761.1	7861.4	8651.5	9777.4	9622.4	8669.7
25°	9923.3	10719.4	10572.0	9241.0	8200.2	7799.1	7879.6	8940.2	10658.6	10686.0	9730.3
27.5°	11056.7	11795.2	11193.5	9555.6	8300.5	7888.8	7995.1	9394.5	11500.4	11840.7	10942.8
30°	11941.0	12454.6	11439.6	9842.7	8498.0	8063.5	8195.7	9826.0	11883.3	12620.2	11875.7
32.5°	12673.4	13042.6	11831.6	10198.3	8861.2	8338.5	8571.0	10350.2	12434.8	13361.7	12788.9
35°	13609.3	13714.2	12319.4	10594.8	9421.8	8817.1	9105.8	10863.8	12960.5	14110.7	13688.3
37.5°	14706.3	14571.1	12779.7	11137.3	10146.6	9566.2	9804.7	11427.5	13393.6	14960.1	14607.6
40°	15791.2	15466.1	13357.1	11979.0	11204.1	10449.0	10731.6	12029.2	13797.7	15811.0	15505.6
42.5°	16713.5	16231.8	13926.9	12904.3	12188.7	11422.9	11760.2	12635.4	14183.7	16537.2	16285.0
45°	17395.7	16797.1	14469.3	13793.2	13545.5	12717.4	12877.0	13329.8	14601.5	17143.5	16926.2
47.5°	18005.0	17365.3	15083.2	14689.6	14732.2	14400.9	14144.2	14138.1	15093.8	17638.8	17532.4
50°	18820.9	18153.9	15742.6	15613.4	16512.9	16292.6	15725.9	15081.6	15716.8	18201.0	18188.8
52.5°	19945.3	19402.8	16547.9	16608.6	18175.2	18319.5	17617.5	16215.1	16692.2	19232.7	19159.7
55°	21274.7	20958.7	17644.9	17752.8	20214.2	20317.5	19620.1	17632.7	18126.5	20726.2	20524.2
57.5°	22312.5	22245.7	18848.3	19126.3	21736.6	22201.6	21560.4	19273.7	19743.2	21984.3	21476.8
60°	22725.8	23049.4	20129.1	20512.0	23145.1	23660.2	23098.0	20715.6	21176.0	22505.5	21411.5
62.5°	22502.4	23225.7	21493.5	21461.6	23459.7	24014.2	23619.2	21517.9	22238.1	21967.6	20328.2
65°	21470.8	22592.1	22285.2	21217.0	22383.9	22429.5	22301.9	21159.3	22488.8	20267.4	18234.4
67.5°	19223.5	20837.2	21242.8	19120.2	19481.8	19185.6	18971.3	19196.2	21182.1	17719.3	15324.7
70°	15657.5	18085.5	18280.0	15292.8	15128.7	14929.7	14502.7	15738.0	18603.6	14522.5	12159.8
72.5°	11512.6	14065.2	14662.3	11216.3	10456.6	10497.6	10160.3	11860.5	15125.7	10787.8	9078.5
75°	7876.6	10184.6	11471.5	7826.5	6914.8	6931.5	6889.0	8403.8	12047.4	7504.4	6793.3
77.5°	5754.0	7276.4	8651.5	5261.7	5108.2	5014.0	4991.3	5880.1	9236.5	5448.6	5275.4
80°	4617.5	5375.7	5811.7	3646.6	3921.6	3914.0	3787.9	4043.1	6032.0	3985.4	3945.9
82.5°	3202.9	4131.3	4708.6	2858.0	2646.8	2602.7	2633.1	3011.5	4263.5	2724.3	2590.6
85°	1689.6	2744.1	4663.1	2532.9	1571.1	1253.5	1558.9	2466.0	3693.7	1443.4	1264.1
87.5°	215.8	793.1	3087.4	1010.4	619.9	334.3	740.0	1388.7	2371.8	294.8	256.8
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°	10131.4	9929.3	9665.0	9420.3	9166.6	8914.4	8584.7	8378.0	8235.2	8207.8	8147.1
5°	9885.3	9213.7	8706.2	8267.1	7869.0	7306.8	6995.4	6737.1	6598.8	6585.1	6551.7
7.5°	8750.3	7823.4	7138.2	6516.7	5953.0	5498.7	4997.3	4763.3	4667.6	4690.4	4713.2
10°	7569.7	6533.5	5746.4	5111.3	4614.4	4231.6	3828.9	3556.9	3368.5	3330.5	3322.9
12.5°	6706.7	5570.1	4805.9	4357.7	3973.3	3613.2	3186.2	2865.6	2621.0	2537.4	2481.2
15°	6342.0	5099.1	4298.4	3815.2	3391.3	2934.0	2537.4	2201.6	1976.7	1903.8	1862.8
17.5°	6419.5	4968.5	3948.9	3330.5	2788.1	2311.0	1811.1	1524.0	1388.7	1353.8	1353.8
20°	6826.7	4944.2	3660.3	2883.8	2207.7	1654.6	1244.4	1080.3	1036.2	1031.7	1043.8
22.5°	7398.0	5029.2	3444.5	2496.4	1715.4	1207.9	969.4	908.6	888.9	893.4	907.1
25°	8248.9	5316.4	3288.0	2151.5	1346.2	989.1	864.5	828.1	819.0	831.1	847.8
27.5°	9257.8	5603.6	3190.8	1891.7	1136.5	904.0	822.0	784.0	790.1	805.3	820.5
30°	10143.6	5839.1	3037.3	1706.3	1071.2	908.6	822.0	770.3	764.3	767.3	771.9
32.5°	10938.2	5998.6	2858.0	1530.0	923.8	806.8	767.3	759.7	726.3	714.1	715.6
35°	11623.5	5998.6	2750.1	1426.7	828.1	715.6	651.8	613.8	597.1	598.6	615.4
37.5°	12284.4	5878.6	2696.9	1369.0	776.4	680.7	624.5	591.0	568.3	563.7	566.7
40°	12867.9	5703.9	2636.2	1344.7	736.9	659.4	606.2	578.9	554.6	547.0	548.5
42.5°	13335.8	5562.6	2569.3	1312.8	712.6	644.2	594.1	569.8	542.4	534.8	533.3
45°	13841.8	5515.5	2481.2	1249.0	724.8	645.7	591.0	565.2	537.9	528.8	525.7
47.5°	14508.8	5662.8	2390.0	1173.0	750.6	653.3	595.6	565.2	536.4	528.8	525.7
50°	15349.1	6009.3	2274.6	1062.1	724.8	674.6	594.1	560.7	536.4	528.8	522.7
52.5°	16427.8	6477.2	2122.6	934.4	709.6	726.3	591.0	551.5	528.8	518.1	507.5
55°	17739.1	6860.1	1941.8	829.6	674.6	712.6	586.5	540.9	516.6	501.4	492.3
57.5°	18699.4	6998.4	1709.3	761.2	626.0	689.8	580.4	527.2	501.4	489.2	477.1
60°	18509.4	6731.0	1513.3	718.7	597.1	623.0	575.9	515.1	487.7	478.6	468.0
62.5°	16988.5	6032.0	1387.2	698.9	578.9	568.3	580.4	502.9	475.6	466.5	463.4
65°	14707.9	5000.4	1337.1	694.4	563.7	536.4	539.4	489.2	461.9	454.3	451.3
67.5°	12132.5	4035.5	1293.0	709.6	543.9	513.6	498.4	471.0	448.2	440.6	434.6
70°	9567.7	3356.4	1273.3	700.4	519.6	490.8	474.1	451.3	431.5	423.9	419.4
72.5°	7704.9	2835.2	1262.6	691.3	487.7	460.4	445.2	425.4	404.2	401.1	396.6
75°	6519.8	2229.0	1156.3	662.5	451.3	423.9	413.3	395.0	373.8	373.8	370.7
77.5°	5029.2	1612.1	961.8	586.5	413.3	382.9	373.8	360.1	335.8	340.3	338.8
80°	3715.0	1051.4	752.1	486.2	366.2	337.3	332.8	319.1	293.2	299.3	299.3
82.5°	2545.0	689.8	540.9	398.1	313.0	285.6	285.6	272.0	243.1	246.1	255.3
85°	1277.8	474.1	404.2	308.4	243.1	229.4	229.4	218.8	189.9	191.4	203.6
87.5°	389.0	285.6	267.4	220.3	174.7	171.7	164.1	156.5	138.3	136.7	144.3
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°	8054.4	7967.8	7862.9	7632.0	7554.5	7549.9	7619.8	7546.9	7686.7	7627.4	7692.8
5°	6495.5	6410.4	6293.4	5998.6	5819.3	5697.8	5640.0	5469.9	5592.9	5503.3	5577.7
7.5°	4777.0	4796.8	4719.3	4546.1	4155.6	3959.6	3844.1	3740.8	3830.4	3821.3	3964.1
10°	3357.9	3411.1	3356.4	3181.6	2865.6	2757.7	2779.0	2820.0	2937.0	2997.8	3218.1
12.5°	2417.4	2414.3	2379.4	2222.9	2014.7	2026.9	2113.5	2184.9	2292.8	2356.6	2581.5
15°	1805.1	1777.7	1762.5	1634.9	1516.4	1542.2	1584.7	1592.3	1660.7	1698.7	1881.0
17.5°	1364.4	1378.1	1394.8	1303.7	1214.0	1197.3	1163.9	1122.8	1142.6	1150.2	1241.4
20°	1083.3	1138.0	1179.1	1115.2	1024.1	975.5	932.9	905.6	905.6	904.0	929.9
22.5°	946.6	986.1	1030.2	986.1	904.0	861.5	837.2	815.9	812.9	812.9	837.2
25°	872.1	901.0	943.6	913.2	852.4	820.5	797.7	770.3	759.7	756.7	773.4
27.5°	835.7	847.8	869.1	841.8	790.1	774.9	768.8	744.5	730.8	723.2	740.0
30°	773.4	770.3	771.9	744.5	703.5	702.0	712.6	717.2	712.6	711.1	736.9
32.5°	715.6	709.6	708.0	683.7	645.7	636.6	645.7	654.9	665.5	680.7	711.1
35°	642.7	657.9	667.0	645.7	600.2	572.8	562.2	545.5	536.4	536.4	571.3
37.5°	585.0	619.9	633.6	613.8	563.7	525.7	507.5	504.4	506.0	512.0	545.5
40°	565.2	591.0	603.2	583.5	533.3	498.4	487.7	484.7	487.7	496.8	530.3
42.5°	553.1	571.3	569.8	545.5	504.4	480.1	474.1	471.0	474.1	483.2	519.6
45°	542.4	554.6	542.4	513.6	475.6	463.4	464.9	463.4	466.5	475.6	510.5
47.5°	533.3	537.9	522.7	493.8	454.3	451.3	457.3	461.9	464.9	472.5	509.0
50°	519.6	519.6	506.0	475.6	436.1	437.6	445.2	455.8	457.3	466.5	495.3
52.5°	502.9	501.4	492.3	463.4	420.9	425.4	425.4	437.6	440.6	451.3	481.7
55°	489.2	486.2	481.7	454.3	407.2	414.8	410.2	414.8	422.4	433.0	466.5
57.5°	477.1	471.0	471.0	446.7	396.6	399.6	389.0	395.0	404.2	413.3	448.2
60°	464.9	458.9	461.9	436.1	379.9	376.8	372.3	384.4	387.4	398.1	433.0
62.5°	451.3	446.7	448.2	423.9	367.7	360.1	360.1	370.7	372.3	387.4	420.9
65°	440.6	434.6	433.0	411.8	354.0	344.9	349.5	354.0	357.1	372.3	404.2
67.5°	430.0	417.8	417.8	401.1	338.8	329.7	338.8	337.3	341.9	355.5	381.4
70°	416.3	399.6	401.1	393.5	323.6	313.0	320.6	319.1	322.1	331.2	357.1
72.5°	395.0	381.4	384.4	381.4	308.4	293.2	296.3	296.3	296.3	303.9	331.2
75°	367.7	357.1	366.2	373.8	290.2	268.9	272.0	272.0	267.4	272.0	305.4
77.5°	334.3	328.2	358.6	347.9	268.9	243.1	243.1	240.1	230.9	237.0	273.5
80°	297.8	293.2	331.2	291.7	244.6	211.2	208.2	200.6	191.4	196.0	232.5
82.5°	259.8	255.3	278.1	223.4	211.2	174.7	167.1	153.5	144.3	148.9	182.3
85°	212.7	212.7	214.2	168.7	161.1	133.7	124.6	106.4	95.7	98.8	130.7
87.5°	151.9	156.5	144.3	115.5	95.7	74.5	68.4	57.7	48.6	56.2	68.4
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: P193826

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-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°	8027.0	8194.2	8384.1	8627.2	8835.4	9177.2	9505.4	9702.9
5°	6001.7	6279.7	6626.1	7071.3	7486.1	8109.1	8727.5	9124.0
7.5°	4295.4	4593.2	4966.9	5523.0	6109.5	6904.2	7721.6	8195.7
10°	3553.9	3859.3	4173.8	4549.1	5029.2	5893.8	6860.1	7395.0
12.5°	2940.1	3266.7	3605.6	4000.6	4445.8	5217.6	6331.4	6946.7
15°	2250.2	2614.9	3014.5	3514.4	4072.0	4963.9	6200.7	6869.2
17.5°	1542.2	1949.4	2440.2	3057.0	3739.3	4881.9	6434.7	7205.0
20°	1062.1	1358.4	1882.5	2605.8	3426.3	4871.2	6884.4	7849.3
22.5°	888.9	1021.0	1403.9	2191.0	3190.8	5001.9	7581.8	8753.3
25°	822.0	901.0	1121.3	1830.9	3019.1	5302.7	8542.1	9923.3
27.5°	782.5	853.9	1018.0	1595.4	2883.8	5652.2	9476.5	11056.7
30°	797.7	870.6	989.1	1475.3	2700.0	5943.9	10306.1	11941.0
32.5°	718.7	750.6	847.8	1369.0	2567.8	6188.5	11032.4	12673.4
35°	612.3	668.5	756.7	1318.8	2570.8	6352.6	11824.0	13609.3
37.5°	583.5	639.7	703.5	1300.6	2605.8	6527.4	12732.6	14706.3
40°	565.2	616.9	671.6	1290.0	2639.2	6686.9	13623.0	15791.2
42.5°	553.1	600.2	668.5	1253.5	2655.9	6829.7	14355.4	16713.5
45°	551.5	600.2	680.7	1217.0	2681.8	6983.2	14969.2	17395.7
47.5°	553.1	619.9	657.9	1173.0	2681.8	7240.0	15689.4	18005.0
50°	547.0	653.3	633.6	1110.7	2619.5	7726.2	16677.0	18820.9
52.5°	543.9	648.8	586.5	1015.0	2511.6	8498.0	17942.7	19945.3
55°	536.4	626.0	553.1	872.1	2385.5	9339.8	19298.0	21274.7
57.5°	528.8	554.6	534.8	747.5	2191.0	9932.4	20230.9	22312.5
60°	592.6	484.7	519.6	686.8	1931.2	10094.9	20194.5	22725.8
62.5°	548.5	454.3	499.9	673.1	1748.8	9639.1	19261.5	22502.4
65°	430.0	434.6	480.1	712.6	1700.2	8431.2	17608.4	21470.8
67.5°	393.5	414.8	460.4	762.7	1704.8	6750.7	15137.9	19223.5
70°	370.7	393.5	437.6	788.6	1716.9	5032.3	11968.4	15657.5
72.5°	344.9	364.7	411.8	793.1	1637.9	3655.7	9224.3	11512.6
75°	314.5	332.8	375.3	691.3	1356.8	2535.9	7056.1	7876.6
77.5°	279.6	293.2	329.7	533.3	1007.4	1622.7	5296.7	5754.0
80°	238.5	246.1	276.5	390.5	689.8	1015.0	4190.5	4617.5
82.5°	191.4	194.5	214.2	293.2	448.2	651.8	2806.3	3202.9
85°	135.2	135.2	147.4	212.7	305.4	413.3	1524.0	1689.6
87.5°	63.8	65.3	65.3	117.0	159.5	209.7	351.0	215.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)