

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: P193867

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193867
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-09-LED-E1-SLR-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 30832 lumens
Efficiency: N/A
Efficacy: 82.4 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): 374
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

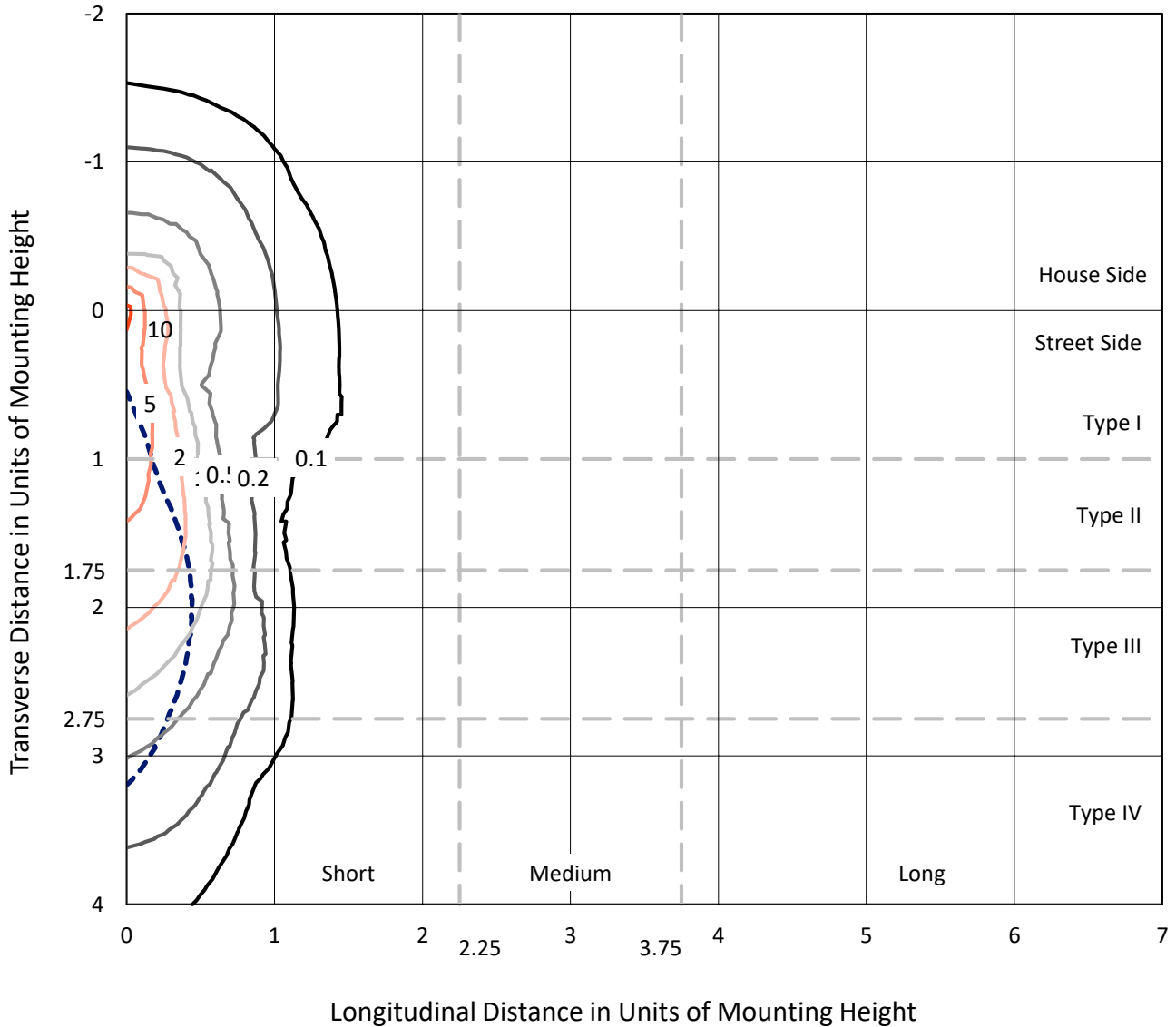


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

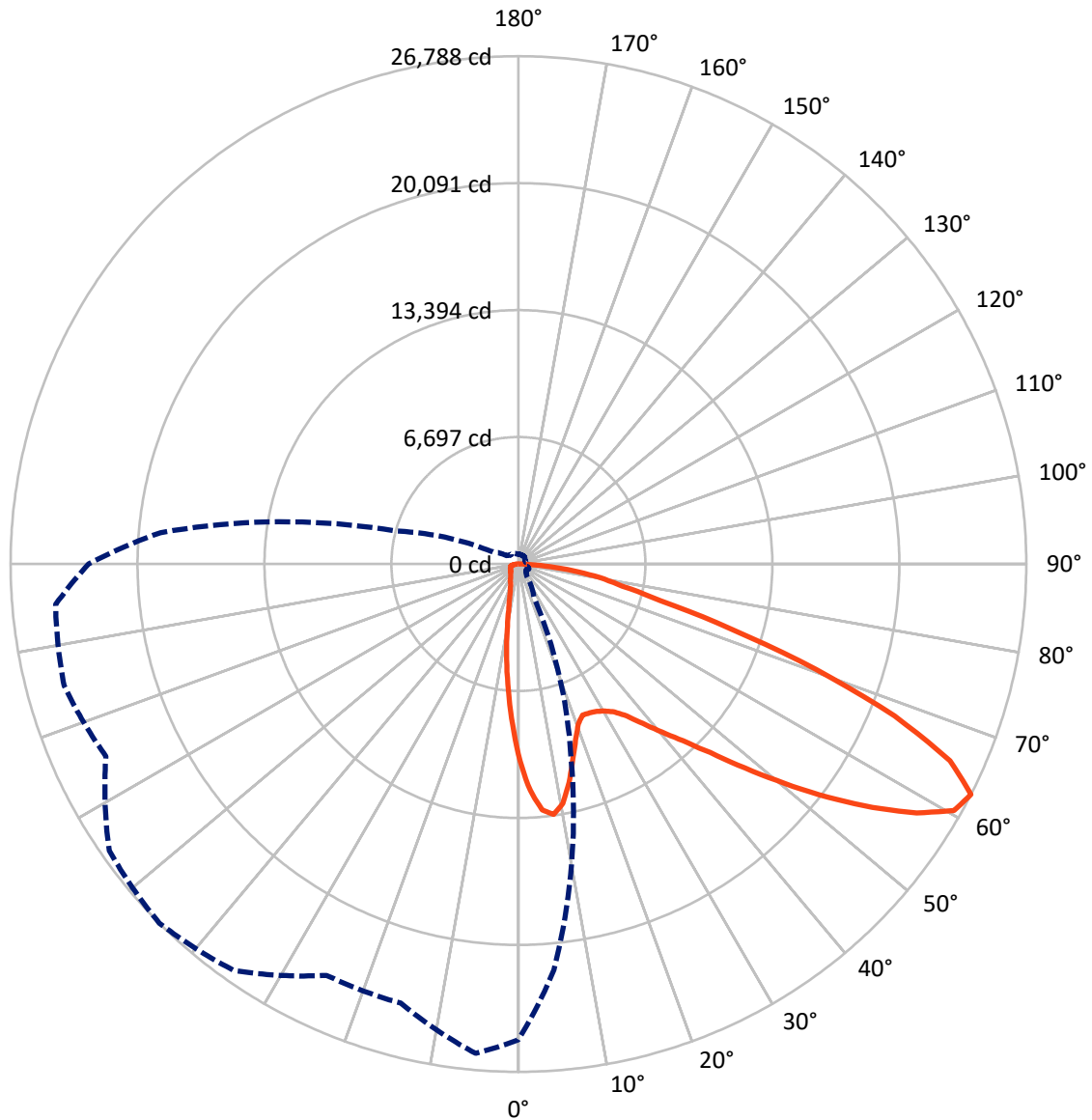


Based on 30 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - Non-Cutoff

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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
House Side	Lumens	5102.3	0.0	5102.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	25729.7	0.0	25729.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	30832.0	0.0	30832.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.3	2.5
10°-20°	1390.5	4.5
20°-30°	2027.3	6.6
30°-40°	3122.4	10.1
40°-50°	4595.4	14.9
50°-60°	6740.4	21.9
60°-70°	7534.8	24.4
70°-80°	3688.9	12.0
80°-90°	974.0	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°	30832.0	100.0
0°-180°	30832.0	100.0



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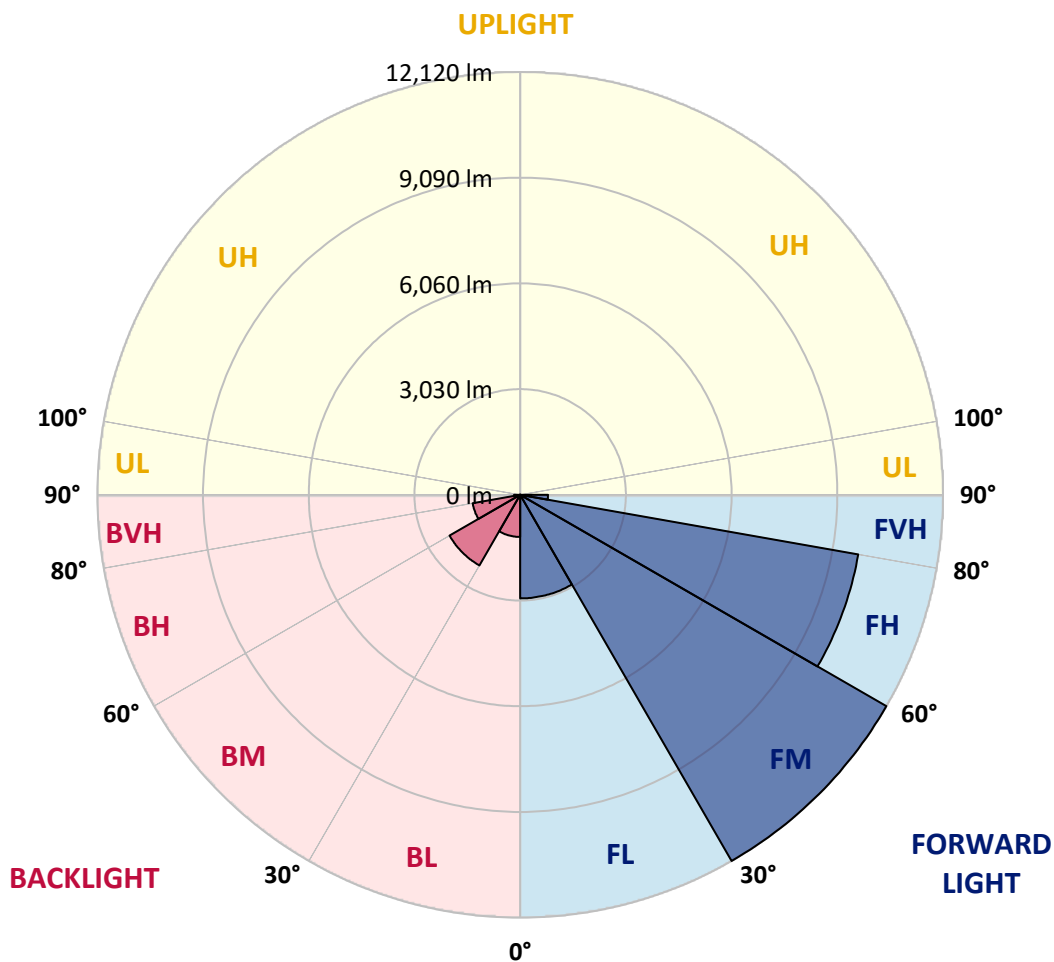
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2969.0	9.6			
FM	(30°-60°)	12120.3	39.3			
FH	(60°-80°)	9840.5	31.9			G4/12000
FVH	(80°-90°)	799.9	2.6			G5
BL	(0°-30°)	1207.1	3.9	B3/2500		
BM	(30°-60°)	2337.8	7.6	B2/2500		
BH	(60°-80°)	1383.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	174.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7
2.5°	10823.5	10603.1	10237.1	9855.7	9623.5	9352.3	9140.5	8954.0	8581.2	8508.3	8574.4
5°	10177.7	9735.4	9045.6	8350.7	7888.0	7391.4	7004.9	6694.8	6221.9	6138.8	6238.8
7.5°	9142.2	8613.4	7701.5	6815.1	6160.9	5540.6	5123.6	4791.4	4421.9	4262.6	4272.8
10°	8249.0	7652.4	6574.4	5610.0	5074.5	4655.8	4305.0	3964.3	3589.7	3344.0	3276.2
12.5°	7749.0	7062.6	5820.2	4959.2	4462.6	4021.9	3644.0	3279.6	2879.6	2628.8	2557.6
15°	7662.5	6916.8	5537.2	4542.3	3920.2	3362.6	2916.9	2510.1	2098.3	1894.9	1852.5
17.5°	8037.1	7177.8	5445.6	4171.1	3410.1	2722.0	2174.5	1720.3	1384.7	1283.0	1274.5
20°	8755.7	7679.5	5433.8	3821.9	2906.7	2100.0	1515.2	1184.7	1037.3	1008.5	1010.1
22.5°	9764.2	8457.4	5579.5	3559.2	2444.0	1566.1	1139.0	991.5	933.9	906.8	906.8
25°	11069.2	9528.6	5915.1	3367.7	2042.3	1250.8	1005.1	916.9	862.7	844.0	847.4
27.5°	12333.6	10570.9	6304.9	3216.9	1779.6	1135.6	952.5	872.9	825.4	806.8	815.2
30°	13320.0	11496.3	6630.4	3011.8	1645.7	1103.4	971.2	889.8	822.0	793.2	794.9
32.5°	14137.0	12306.5	6903.2	2864.3	1527.1	945.7	837.3	801.7	793.2	759.3	742.4
35°	15181.0	13189.5	7086.3	2867.7	1471.2	844.0	745.7	683.0	637.3	598.3	598.3
37.5°	16404.7	14203.1	7281.2	2906.7	1450.8	784.7	713.5	650.8	608.5	571.2	564.4
40°	17614.9	15196.3	7459.2	2944.0	1439.0	749.1	688.1	630.5	591.5	554.2	544.1
42.5°	18643.6	16013.2	7618.5	2962.6	1398.3	745.7	669.5	616.9	579.6	539.0	528.8
45°	19404.6	16697.9	7789.7	2991.5	1357.6	759.3	669.5	615.2	569.5	530.5	520.3
47.5°	20084.3	17501.3	8076.1	2991.5	1308.4	733.9	691.5	616.9	567.8	527.1	518.6
50°	20994.4	18603.0	8618.4	2922.0	1239.0	706.8	728.8	610.2	552.5	520.3	510.2
52.5°	22248.6	20014.8	9479.4	2801.6	1132.2	654.2	723.7	606.8	537.3	503.4	491.5
55°	23731.7	21526.6	10418.4	2661.0	972.9	616.9	698.3	598.3	520.3	483.0	471.2
57.5°	24889.3	22567.3	11079.4	2444.0	833.9	596.6	618.6	589.8	500.0	461.0	450.8
60°	25350.3	22526.6	11260.8	2154.2	766.1	579.6	540.7	661.0	483.0	444.1	432.2
62.5°	25101.1	21485.9	10752.3	1950.8	750.8	557.6	506.8	611.9	469.5	432.2	415.2
65°	23950.3	19641.9	9404.9	1896.6	794.9	535.6	484.7	479.7	450.8	415.2	398.3
67.5°	21443.6	16886.1	7530.3	1901.7	850.8	513.5	462.7	439.0	425.4	396.6	381.3
70°	17465.7	13350.5	5613.4	1915.2	879.6	488.1	439.0	413.5	398.3	369.5	359.3
72.5°	12842.1	10289.6	4077.9	1827.1	884.7	459.3	406.8	384.7	369.5	339.0	330.5
75°	8786.2	7871.0	2828.7	1513.5	771.2	418.6	371.2	350.8	340.7	303.4	298.3
77.5°	6418.5	5908.3	1810.1	1123.7	594.9	367.8	327.1	311.9	305.1	264.4	257.6
80°	5150.7	4674.5	1132.2	769.5	435.6	308.5	274.6	266.1	259.3	218.6	213.6
82.5°	3572.8	3130.4	727.1	500.0	327.1	239.0	216.9	213.6	203.4	166.1	161.0
85°	1884.7	1700.0	461.0	340.7	237.3	164.4	150.8	150.8	145.8	110.2	106.8
87.5°	240.7	391.5	233.9	178.0	130.5	72.9	72.9	71.2	76.3	62.7	54.2
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°	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7
2.5°	8418.5	8499.8	8421.8	8426.9	8513.4	8771.0	8887.9	8984.5	9087.9	9155.7	9186.2
5°	6101.6	6291.4	6355.8	6491.4	6691.4	7020.2	7150.7	7245.6	7308.3	7345.6	7360.8
7.5°	4172.8	4288.0	4416.8	4635.5	5071.1	5264.3	5350.7	5328.7	5257.5	5232.1	5206.7
10°	3145.7	3099.9	3076.2	3196.5	3549.1	3744.0	3805.0	3745.7	3706.7	3715.2	3757.5
12.5°	2437.2	2357.6	2261.0	2247.4	2479.6	2654.2	2693.2	2696.5	2767.7	2830.4	2923.7
15°	1776.2	1767.8	1720.3	1691.5	1823.7	1966.1	1983.0	2013.5	2077.9	2123.7	2205.0
17.5°	1252.5	1298.3	1335.6	1354.2	1454.2	1555.9	1537.3	1522.0	1510.1	1510.1	1549.1
20°	1010.1	1040.7	1088.1	1142.3	1244.0	1315.2	1269.5	1208.4	1164.4	1150.8	1155.9
22.5°	910.1	933.9	961.0	1008.5	1100.0	1149.1	1100.0	1055.9	1011.8	996.6	991.5
25°	859.3	889.8	915.2	950.8	1018.6	1052.5	1005.1	972.9	945.7	927.1	913.5
27.5°	830.5	857.6	864.4	881.3	939.0	969.5	945.7	932.2	915.2	898.3	881.3
30°	800.0	794.9	783.0	784.7	830.5	861.0	859.3	862.7	861.0	855.9	852.5
32.5°	730.5	720.3	710.2	720.3	762.7	789.8	791.5	798.3	798.3	796.6	810.2
35°	608.5	627.1	639.0	669.5	720.3	744.1	733.9	716.9	686.4	667.8	666.1
37.5°	562.7	566.1	586.4	628.8	684.7	706.8	691.5	652.5	632.2	628.8	633.9
40°	540.7	544.1	555.9	594.9	650.8	672.9	659.3	630.5	611.9	610.2	618.6
42.5°	525.4	528.8	535.6	562.7	608.5	635.6	637.3	616.9	594.9	596.6	605.1
45°	516.9	518.6	516.9	530.5	572.9	605.1	618.6	605.1	586.4	589.8	600.0
47.5°	515.2	510.2	503.4	506.8	550.8	583.0	600.0	594.9	586.4	589.8	598.3
50°	508.5	496.6	488.1	486.4	530.5	564.4	579.6	579.6	583.0	589.8	598.3
52.5°	488.1	474.6	474.6	469.5	516.9	549.1	559.3	561.0	566.1	578.0	589.8
55°	462.7	457.6	462.7	454.2	506.8	537.3	542.4	545.8	549.1	559.3	576.3
57.5°	440.7	433.9	445.8	442.4	498.3	525.4	525.4	532.2	532.2	545.8	559.3
60°	428.8	415.2	420.3	423.7	486.4	515.2	511.9	518.6	522.0	533.9	544.1
62.5°	413.5	401.7	401.7	410.2	472.9	500.0	498.3	503.4	516.9	520.3	530.5
65°	394.9	389.8	384.7	394.9	459.3	483.0	484.7	491.5	503.4	506.8	515.2
67.5°	376.3	378.0	367.8	378.0	447.4	466.1	466.1	479.7	484.7	491.5	500.0
70°	355.9	357.6	349.1	361.0	439.0	447.4	445.8	464.4	467.8	472.9	481.3
72.5°	330.5	330.5	327.1	344.1	425.4	428.8	425.4	440.7	442.4	447.4	450.8
75°	303.4	303.4	300.0	323.7	416.9	408.5	398.3	410.2	413.5	416.9	416.9
77.5°	267.8	271.2	271.2	300.0	388.1	400.0	366.1	372.9	378.0	379.7	374.6
80°	223.7	232.2	235.6	272.9	325.4	369.5	327.1	332.2	333.9	333.9	327.1
82.5°	171.2	186.4	194.9	235.6	249.1	310.2	284.7	289.8	284.7	274.6	271.2
85°	118.6	139.0	149.1	179.7	188.1	239.0	237.3	237.3	227.1	213.6	211.9
87.5°	64.4	76.3	83.0	106.8	128.8	161.0	174.6	169.5	161.0	152.5	154.2
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°	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7
2.5°	9345.5	9576.1	9943.8	10225.2	10508.2	10781.1	11076.0	11301.4	11493.0	11567.5	11794.6
5°	7515.1	7803.2	8150.7	8777.8	9221.8	9711.6	10277.7	11026.9	11315.0	11713.3	12365.8
7.5°	5313.4	5574.4	6133.8	6640.5	7269.3	7962.5	8726.9	9760.8	10138.8	10777.7	11840.4
10°	3967.7	4271.1	4720.2	5147.3	5701.6	6410.0	7288.0	8443.9	8903.2	9596.4	10820.1
12.5°	3196.5	3554.2	4030.4	4432.1	4860.9	5360.9	6213.4	7481.2	8096.4	8703.2	9940.5
15°	2455.9	2830.4	3272.8	3783.0	4255.8	4794.8	5688.0	7074.4	7782.9	8415.1	9471.0
17.5°	1700.0	2020.3	2577.9	3110.1	3715.2	4405.0	5542.2	7160.9	8006.6	8735.4	9552.3
20°	1205.1	1388.1	1845.7	2462.7	3216.9	4083.0	5515.1	7615.1	8715.1	9547.2	10074.3
22.5°	1013.5	1081.3	1347.4	1913.5	2784.7	3842.3	5610.0	8252.4	9671.0	10733.7	10906.5
25°	923.7	964.4	1103.4	1501.7	2399.9	3667.7	5930.4	9201.5	10854.0	11920.1	11889.6
27.5°	874.6	916.9	1008.5	1267.8	2110.1	3559.2	6250.7	10326.9	12206.5	13208.2	12828.5
30°	859.3	916.9	1013.5	1194.9	1903.3	3388.1	6513.4	11315.0	13247.2	14077.6	13255.6
32.5°	847.4	855.9	900.0	1030.5	1706.7	3188.1	6691.4	12201.4	14265.8	14904.7	13870.9
35°	684.7	727.1	798.3	923.7	1591.5	3067.7	6691.4	12965.8	15269.1	15740.3	14457.3
37.5°	659.3	696.6	759.3	866.1	1527.1	3008.4	6557.5	13703.1	16294.5	16687.8	14940.3
40°	645.7	676.3	735.6	822.0	1500.0	2940.6	6362.6	14353.9	17296.2	17636.9	15391.2
42.5°	635.6	662.7	718.6	794.9	1464.4	2866.0	6204.9	14875.9	18165.7	18447.0	15821.7
45°	630.5	659.3	720.3	808.5	1393.2	2767.7	6152.4	15440.3	18880.9	19123.3	16287.8
47.5°	630.5	664.4	728.8	837.3	1308.4	2666.0	6316.8	16184.4	19557.2	19675.8	16836.9
50°	625.4	662.7	752.5	808.5	1184.7	2537.2	6703.2	17121.6	20289.4	20302.9	17531.8
52.5°	615.2	659.3	810.2	791.5	1042.3	2367.7	7225.3	18325.0	21372.4	21453.7	18619.9
55°	603.4	654.2	794.9	752.5	925.4	2166.1	7652.4	19787.7	22894.4	23119.8	20219.9
57.5°	588.1	647.4	769.5	698.3	849.1	1906.7	7806.6	20858.8	23957.1	24523.2	22023.2
60°	574.6	642.4	694.9	666.1	801.7	1688.1	7508.3	20647.0	23884.2	25104.5	23621.5
62.5°	561.0	647.4	633.9	645.7	779.6	1547.4	6728.7	18950.4	22675.8	24504.5	24806.2
65°	545.8	601.7	598.3	628.8	774.6	1491.5	5577.8	16406.4	20340.2	22608.0	25085.9
67.5°	525.4	555.9	572.9	606.8	791.5	1442.3	4501.6	13533.6	17094.5	19765.6	23628.3
70°	503.4	528.8	547.4	579.6	781.3	1420.3	3744.0	10672.6	13564.1	16199.6	20752.1
72.5°	474.6	496.6	513.5	544.1	771.2	1408.4	3162.6	8594.7	10126.9	12033.6	16872.5
75°	440.7	461.0	472.9	503.4	739.0	1289.8	2486.4	7272.7	7577.8	8371.0	13438.7
77.5°	401.7	416.9	427.1	461.0	654.2	1072.9	1798.3	5610.0	5884.6	6077.8	10303.2
80°	355.9	371.2	376.3	408.5	542.4	839.0	1172.9	4144.0	4401.6	4445.7	6728.7
82.5°	303.4	318.6	318.6	349.1	444.1	603.4	769.5	2838.9	2889.8	3038.9	4755.8
85°	244.1	255.9	255.9	271.2	344.1	450.8	528.8	1425.4	1410.1	1610.1	4120.2
87.5°	174.6	183.0	191.5	194.9	245.8	298.3	318.6	433.9	286.4	328.8	2645.7
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: P193867

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-8030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7
2.5°	11965.8	12062.4	11964.1	11892.9	11586.2	11333.6	10996.4	10823.5
5°	12862.4	13108.2	13025.1	12726.8	12086.2	11365.8	10547.2	10177.7
7.5°	12753.9	13325.1	13338.7	12781.1	11837.0	10776.0	9667.6	9142.2
10°	11909.9	12640.4	12848.9	12308.2	11306.5	10120.1	8848.9	8249.0
12.5°	10967.5	11682.8	11842.1	11655.7	10818.4	9626.9	8337.1	7749.0
15°	10196.4	10516.7	10706.5	10869.2	10399.8	9430.3	8308.3	7662.5
17.5°	9726.9	9691.3	9745.5	10028.6	10108.2	9655.7	8749.0	8037.1
20°	9557.4	9013.4	8999.8	9389.6	9971.0	10193.0	9609.9	8755.7
22.5°	9650.6	8769.3	8657.4	9120.1	10043.8	10967.5	10738.7	9764.2
25°	9972.7	8789.6	8699.8	9147.2	10308.2	11793.0	11957.4	11069.2
27.5°	10479.4	8918.4	8799.8	9259.1	10659.1	12486.2	13157.3	12333.6
30°	10960.8	9142.2	8994.7	9479.4	10979.4	12760.7	13892.9	13320.0
32.5°	11545.5	9560.8	9301.5	9884.5	11376.0	13198.0	14548.8	14137.0
35°	12118.4	10157.4	9835.4	10509.9	11818.4	13742.1	15298.0	15181.0
37.5°	12747.2	10937.0	10670.9	11318.4	12423.4	14255.6	16253.9	16404.7
40°	13418.3	11970.9	11655.7	12498.0	13362.4	14899.7	17252.1	17614.9
42.5°	14094.6	13118.3	12742.1	13596.3	14394.6	15535.2	18106.4	18643.6
45°	14869.2	14364.1	14186.1	15109.8	15386.1	16140.3	18736.9	19404.6
47.5°	15770.8	15777.6	16064.0	16433.5	16386.1	16825.0	19370.7	20084.3
50°	16823.3	17542.0	18174.2	18419.9	17416.6	17560.6	20250.4	20994.4
52.5°	18087.7	19652.1	20435.1	20274.1	18526.7	18458.9	21643.6	22248.6
55°	19669.0	21885.9	22663.9	22548.6	19802.9	19682.6	23379.1	23731.7
57.5°	21499.5	24050.3	24765.5	24246.9	21335.1	21024.9	24814.7	24889.3
60°	23107.9	25765.5	26392.6	25818.1	22880.8	22453.7	25711.3	25350.3
62.5°	24002.8	26346.9	26787.5	26168.9	23940.1	23975.7	25907.9	25101.1
65°	23602.8	24877.4	25019.8	24968.9	23667.3	24858.8	25201.1	23950.3
67.5°	21413.1	21162.2	21401.2	21731.7	21328.3	23696.1	23243.5	21443.6
70°	17555.5	16177.6	16653.9	16875.9	17058.9	20391.1	20174.1	17465.7
72.5°	13230.2	11333.6	11709.9	11664.1	12511.6	16355.6	15689.5	12842.1
75°	9374.4	7684.6	7732.0	7713.4	8730.3	12796.3	11360.8	8786.2
77.5°	6559.2	5567.7	5593.1	5698.2	5869.4	9650.6	8116.8	6418.5
80°	4510.1	4225.3	4366.0	4374.5	4067.7	6482.9	5996.5	5150.7
82.5°	3359.2	2937.2	2903.3	2952.5	3188.1	5252.4	4608.4	3572.8
85°	2750.8	1738.9	1398.3	1752.5	2825.4	5201.6	3060.9	1884.7
87.5°	1549.1	825.4	372.9	691.5	1127.1	3444.0	884.7	240.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)