

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: P193877

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193877
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 38160 lumens
Efficiency: N/A
Efficacy: 76.2 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

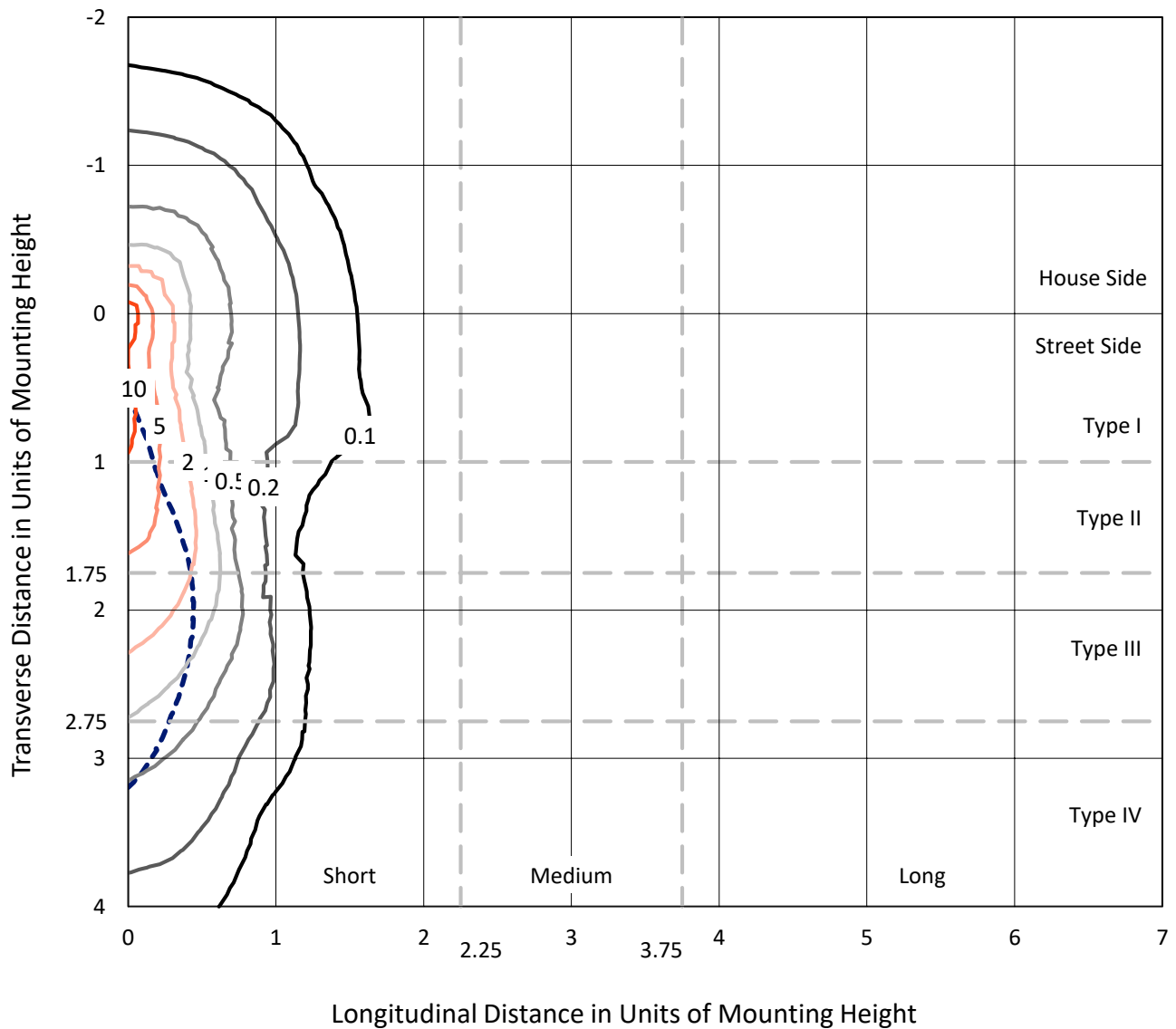
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

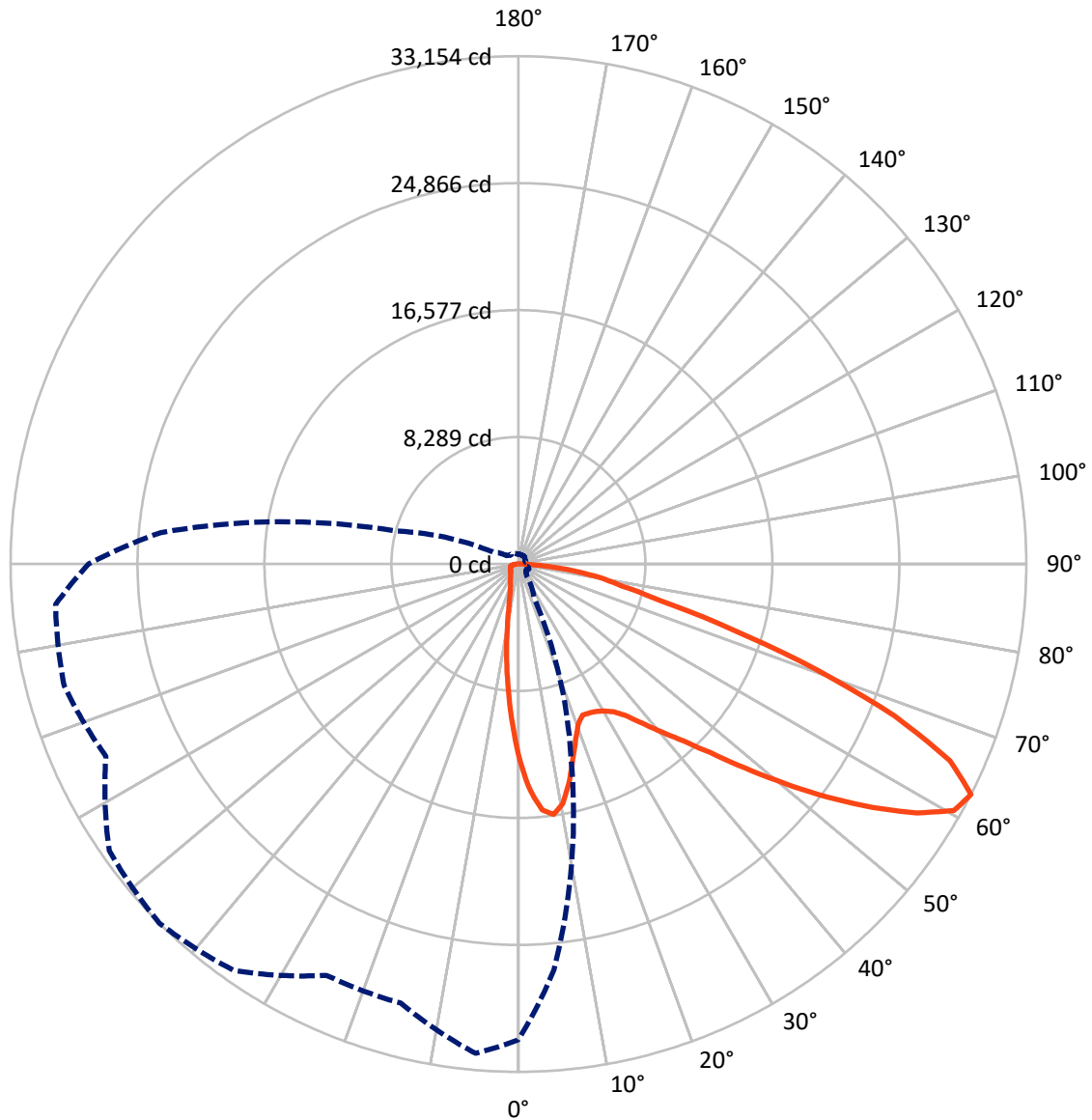
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.3 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	6315.0	0.0	6315.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	31845.0	0.0	31845.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	38160.0	0.0	38160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.5	2.5
10°-20°	1721.0	4.5
20°-30°	2509.2	6.6
30°-40°	3864.5	10.1
40°-50°	5687.6	14.9
50°-60°	8342.4	21.9
60°-70°	9325.6	24.4
70°-80°	4565.7	12.0
80°-90°	1205.5	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°	38160.0	100.0
0°-180°	38160.0	100.0



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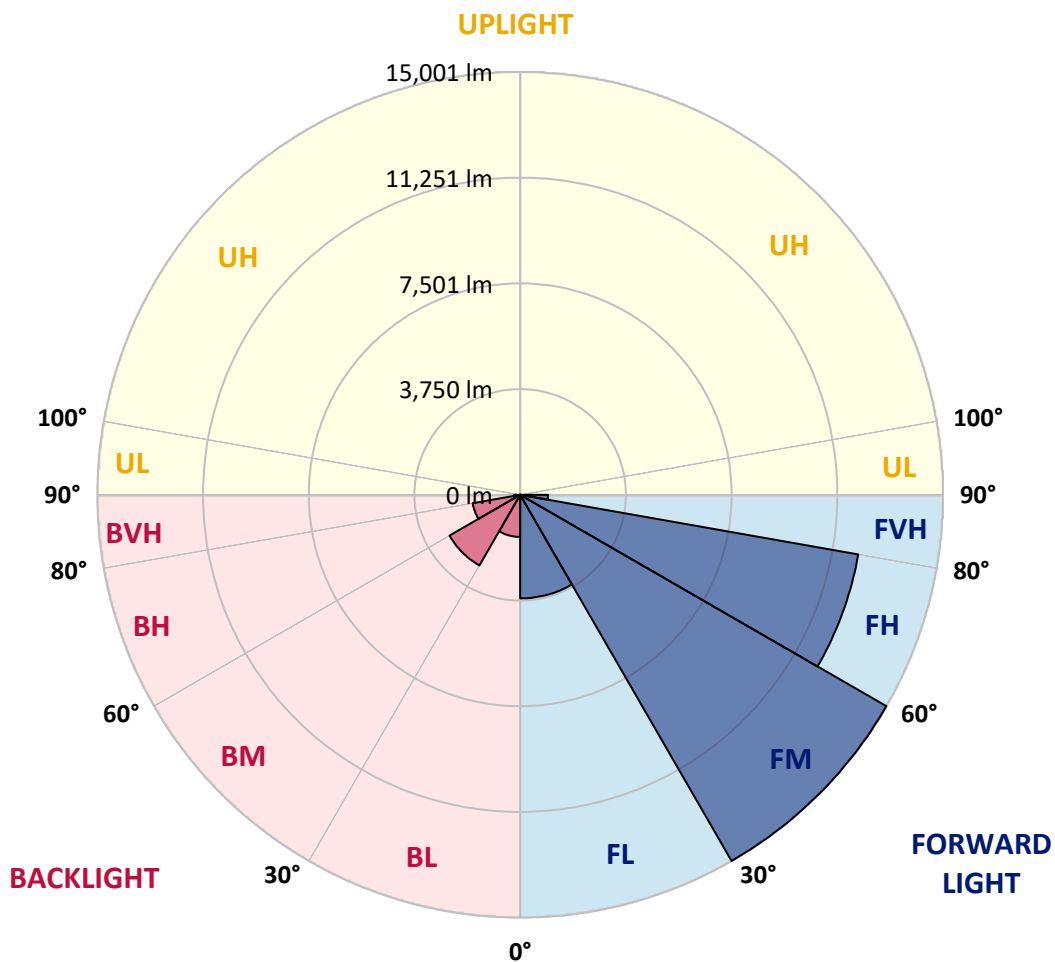
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3674.7	9.6			
FM (30°-60°)	15001.0	39.3			
FH (60°-80°)	12179.4	31.9			G5
FVH (80°-90°)	990.0	2.6			G5
BL (0°-30°)	1494.0	3.9	B3/2500		
BM (30°-60°)	2893.5	7.6	B3/5000		
BH (60°-80°)	1712.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	215.5	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°	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5
2.5°	13396.0	13123.3	12670.1	12198.2	11910.8	11575.1	11312.9	11082.2	10620.7	10530.5	10612.3
5°	12596.7	12049.2	11195.5	10335.4	9762.7	9148.1	8669.8	8285.9	7700.7	7597.9	7721.7
7.5°	11315.0	10660.5	9532.0	8434.9	7625.2	6857.4	6341.4	5930.2	5472.9	5275.7	5288.3
10°	10209.5	9471.1	8137.0	6943.4	6280.5	5762.4	5328.2	4906.5	4442.9	4138.8	4054.9
12.5°	9590.7	8741.1	7203.5	6137.9	5523.3	4977.9	4510.1	4059.1	3564.0	3253.5	3165.4
15°	9483.7	8560.7	6853.2	5621.9	4852.0	4161.8	3610.2	3106.7	2597.0	2345.2	2292.8
17.5°	9947.3	8883.8	6739.9	5162.5	4220.6	3368.9	2691.4	2129.2	1713.8	1588.0	1577.5
20°	10836.8	9504.7	6725.2	4730.3	3597.6	2599.1	1875.3	1466.3	1283.8	1248.1	1250.2
22.5°	12084.9	10467.6	6905.6	4405.2	3024.9	1938.3	1409.7	1227.2	1155.8	1122.3	1122.3
25°	13700.1	11793.3	7321.0	4168.1	2527.7	1548.1	1243.9	1134.9	1067.7	1044.7	1048.9
27.5°	15265.0	13083.4	7803.5	3981.4	2202.6	1405.5	1178.9	1080.3	1021.6	998.5	1009.0
30°	16485.9	14228.7	8206.2	3727.6	2036.9	1365.6	1202.0	1101.3	1017.4	981.7	983.8
32.5°	17497.0	15231.4	8544.0	3545.1	1890.0	1170.5	1036.3	992.2	981.7	939.8	918.8
35°	18789.2	16324.4	8770.5	3549.3	1820.8	1044.7	923.0	845.4	788.7	740.5	740.5
37.5°	20303.7	17578.8	9011.7	3597.6	1795.6	971.2	883.1	805.5	753.1	706.9	698.5
40°	21801.5	18808.0	9232.0	3643.7	1781.0	927.2	851.7	780.3	732.1	685.9	673.4
42.5°	23074.8	19819.1	9429.2	3666.8	1730.6	923.0	828.6	763.6	717.4	667.1	654.5
45°	24016.6	20666.6	9641.1	3702.5	1680.3	939.8	828.6	761.5	704.8	656.6	644.0
47.5°	24857.8	21660.9	9995.6	3702.5	1619.4	908.3	855.9	763.6	702.7	652.4	641.9
50°	25984.3	23024.4	10666.8	3616.4	1533.4	874.7	902.0	755.2	683.9	644.0	631.4
52.5°	27536.6	24771.8	11732.5	3467.5	1401.3	809.7	895.7	751.0	665.0	623.0	608.3
55°	29372.1	26643.0	12894.6	3293.4	1204.1	763.6	864.3	740.5	644.0	597.8	583.2
57.5°	30804.8	27931.0	13712.7	3024.9	1032.1	738.4	765.7	730.0	618.8	570.6	558.0
60°	31375.4	27880.6	13937.2	2666.2	948.2	717.4	669.2	818.1	597.8	549.6	534.9
62.5°	31067.0	26592.6	13307.8	2414.5	929.3	690.1	627.2	757.3	581.1	534.9	513.9
65°	29642.7	24310.3	11640.2	2347.3	983.8	662.9	599.9	593.7	558.0	513.9	493.0
67.5°	26540.2	20899.4	9320.1	2353.6	1053.0	635.6	572.7	543.3	526.5	490.9	472.0
70°	21616.9	16523.6	6947.6	2370.4	1088.7	604.1	543.3	511.8	493.0	457.3	444.7
72.5°	15894.3	12735.2	5047.1	2261.3	1095.0	568.5	503.4	476.2	457.3	419.5	409.1
75°	10874.5	9741.7	3501.1	1873.3	954.5	518.1	459.4	434.2	421.6	375.5	369.2
77.5°	7944.0	7312.6	2240.4	1390.8	736.3	455.2	404.9	386.0	377.6	327.2	318.9
80°	6374.9	5785.5	1401.3	952.4	539.1	381.8	339.8	329.3	320.9	270.6	264.3
82.5°	4422.0	3874.5	899.9	618.8	404.9	295.8	268.5	264.3	251.7	205.6	199.3
85°	2332.6	2104.0	570.6	421.6	293.7	203.5	186.7	186.7	180.4	136.4	132.2
87.5°	297.9	484.6	289.5	220.3	161.5	90.2	90.2	88.1	94.4	77.6	67.1
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°	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5
2.5°	10419.3	10520.0	10423.5	10429.8	10536.8	10855.6	11000.4	11119.9	11247.9	11331.8	11369.6
5°	7551.7	7786.7	7866.4	8034.2	8281.7	8688.7	8850.2	8967.7	9045.3	9091.5	9110.3
7.5°	5164.6	5307.2	5466.6	5737.2	6276.3	6515.5	6622.5	6595.2	6507.1	6475.6	6444.2
10°	3893.3	3836.7	3807.3	3956.3	4392.6	4633.8	4709.4	4635.9	4587.7	4598.2	4650.6
12.5°	3016.5	2917.9	2798.3	2781.6	3068.9	3285.0	3333.3	3337.5	3425.6	3503.2	3618.5
15°	2198.4	2187.9	2129.2	2093.5	2257.1	2433.3	2454.3	2492.1	2571.8	2628.4	2729.1
17.5°	1550.2	1606.8	1653.0	1676.1	1799.8	1925.7	1902.6	1883.7	1869.1	1869.1	1917.3
20°	1250.2	1288.0	1346.7	1413.9	1539.7	1627.8	1571.2	1495.7	1441.1	1424.3	1430.6
22.5°	1126.5	1155.8	1189.4	1248.1	1361.4	1422.2	1361.4	1306.9	1252.3	1233.5	1227.2
25°	1063.5	1101.3	1132.8	1176.8	1260.7	1302.7	1243.9	1204.1	1170.5	1147.4	1130.7
27.5°	1027.9	1061.4	1069.8	1090.8	1162.1	1199.9	1170.5	1153.7	1132.8	1111.8	1090.8
30°	990.1	983.8	969.1	971.2	1027.9	1065.6	1063.5	1067.7	1065.6	1059.3	1055.1
32.5°	904.1	891.5	878.9	891.5	944.0	977.5	979.6	988.0	988.0	985.9	1002.7
35°	753.1	776.2	790.8	828.6	891.5	920.9	908.3	887.3	849.6	826.5	824.4
37.5°	696.4	700.6	725.8	778.2	847.5	874.7	855.9	807.6	782.4	778.2	784.5
40°	669.2	673.4	688.0	736.3	805.5	832.8	816.0	780.3	757.3	755.2	765.7
42.5°	650.3	654.5	662.9	696.4	753.1	786.6	788.7	763.6	736.3	738.4	748.9
45°	639.8	641.9	639.8	656.6	709.0	748.9	765.7	748.9	725.8	730.0	742.6
47.5°	637.7	631.4	623.0	627.2	681.8	721.6	742.6	736.3	725.8	730.0	740.5
50°	629.3	614.6	604.1	602.0	656.6	698.5	717.4	717.4	721.6	730.0	740.5
52.5°	604.1	587.4	587.4	581.1	639.8	679.7	692.2	694.3	700.6	715.3	730.0
55°	572.7	566.4	572.7	562.2	627.2	665.0	671.3	675.5	679.7	692.2	713.2
57.5°	545.4	537.0	551.7	547.5	616.7	650.3	650.3	658.7	658.7	675.5	692.2
60°	530.7	513.9	520.2	524.4	602.0	637.7	633.5	641.9	646.1	660.8	673.4
62.5°	511.8	497.2	497.2	507.6	585.3	618.8	616.7	623.0	639.8	644.0	656.6
65°	488.8	482.5	476.2	488.8	568.5	597.8	599.9	608.3	623.0	627.2	637.7
67.5°	465.7	467.8	455.2	467.8	553.8	576.9	576.9	593.7	599.9	608.3	618.8
70°	440.5	442.6	432.1	446.8	543.3	553.8	551.7	574.8	579.0	585.3	595.7
72.5°	409.1	409.1	404.9	425.8	526.5	530.7	526.5	545.4	547.5	553.8	558.0
75°	375.5	375.5	371.3	400.7	516.0	505.5	493.0	507.6	511.8	516.0	516.0
77.5°	331.4	335.6	335.6	371.3	480.4	495.1	453.1	461.5	467.8	469.9	463.6
80°	276.9	287.4	291.6	337.7	402.8	457.3	404.9	411.2	413.2	413.2	404.9
82.5°	211.9	230.7	241.2	291.6	308.4	383.9	352.4	358.7	352.4	339.8	335.6
85°	146.8	172.0	184.6	222.4	232.8	295.8	293.7	293.7	281.1	264.3	262.2
87.5°	79.7	94.4	102.8	132.2	159.4	199.3	216.1	209.8	199.3	188.8	190.9
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°	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5
2.5°	11566.8	11852.0	12307.2	12655.5	13005.8	13343.5	13708.5	13987.5	14224.5	14316.8	14597.9
5°	9301.2	9657.8	10087.9	10864.0	11413.6	12019.9	12720.5	13647.7	14004.3	14497.2	15304.9
7.5°	6576.3	6899.4	7591.6	8218.8	8997.1	9855.0	10801.1	12080.7	12548.5	13339.3	14654.6
10°	4910.7	5286.2	5842.1	6370.7	7056.7	7933.5	9020.1	10450.8	11019.3	11877.2	13391.8
12.5°	3956.3	4398.9	4988.3	5485.5	6016.2	6635.0	7690.2	9259.3	10020.7	10771.7	12303.0
15°	3039.6	3503.2	4050.7	4682.1	5267.3	5934.4	7039.9	8755.8	9632.7	10415.1	11722.0
17.5°	2104.0	2500.5	3190.6	3849.3	4598.2	5451.9	6859.5	8862.8	9909.6	10811.6	11822.7
20°	1491.5	1718.0	2284.4	3048.0	3981.4	5053.4	6825.9	9425.0	10786.4	11816.4	12468.8
22.5°	1254.4	1338.3	1667.7	2368.3	3446.5	4755.5	6943.4	10213.7	11969.5	13284.8	13498.7
25°	1143.2	1193.6	1365.6	1858.6	2970.4	4539.4	7339.9	11388.4	13433.7	14753.2	14715.4
27.5°	1082.4	1134.9	1248.1	1569.1	2611.6	4405.2	7736.3	12781.3	15107.7	16347.4	15877.5
30°	1063.5	1134.9	1254.4	1478.9	2355.7	4193.3	8061.5	14004.3	16395.7	17423.5	16406.2
32.5°	1048.9	1059.3	1113.9	1275.4	2112.4	3945.8	8281.7	15101.4	17656.4	18447.2	17167.6
35°	847.5	899.9	988.0	1143.2	1969.7	3796.8	8281.7	16047.5	18898.2	19481.4	17893.4
37.5°	816.0	862.2	939.8	1071.9	1890.0	3723.4	8116.0	16960.0	20167.3	20654.0	18491.3
40°	799.2	837.0	910.4	1017.4	1856.5	3639.5	7874.8	17765.5	21407.1	21828.7	19049.3
42.5°	786.6	820.2	889.4	983.8	1812.4	3547.2	7679.7	18411.6	22483.2	22831.4	19582.1
45°	780.3	816.0	891.5	1000.6	1724.3	3425.6	7614.7	19110.1	23368.4	23668.4	20159.0
47.5°	780.3	822.3	902.0	1036.3	1619.4	3299.7	7818.2	20031.0	24205.4	24352.3	20838.6
50°	774.1	820.2	931.4	1000.6	1466.3	3140.3	8296.4	21191.0	25111.6	25128.4	21698.7
52.5°	761.5	816.0	1002.7	979.6	1290.1	2930.5	8942.5	22680.4	26452.1	26552.8	23045.4
55°	746.8	809.7	983.8	931.4	1145.3	2680.9	9471.1	24490.7	28335.8	28614.8	25025.6
57.5°	727.9	801.3	952.4	864.3	1051.0	2359.9	9662.0	25816.5	29651.1	30351.7	27257.6
60°	711.1	795.0	860.1	824.4	992.2	2089.3	9292.8	25554.3	29560.9	31071.2	29235.7
62.5°	694.3	801.3	784.5	799.2	964.9	1915.2	8327.9	23454.5	28065.2	30328.6	30702.0
65°	675.5	744.7	740.5	778.2	958.7	1846.0	6903.6	20305.8	25174.6	27981.3	31048.2
67.5°	650.3	688.0	709.0	751.0	979.6	1785.1	5571.5	16750.2	21157.5	24463.5	29244.1
70°	623.0	654.5	677.6	717.4	967.0	1757.9	4633.8	13209.3	16787.9	20049.9	25684.3
72.5°	587.4	614.6	635.6	673.4	954.5	1743.2	3914.3	10637.5	12533.8	14893.7	20882.7
75°	545.4	570.6	585.3	623.0	914.6	1596.4	3077.3	9001.3	9378.8	10360.6	16632.7
77.5°	497.2	516.0	528.6	570.6	809.7	1327.8	2225.7	6943.4	7283.2	7522.4	12752.0
80°	440.5	459.4	465.7	505.5	671.3	1038.4	1451.6	5128.9	5447.7	5502.3	8327.9
82.5°	375.5	394.4	394.4	432.1	549.6	746.8	952.4	3513.7	3576.6	3761.2	5886.2
85°	302.1	316.8	316.8	335.6	425.8	558.0	654.5	1764.2	1745.3	1992.8	5099.5
87.5°	216.1	226.6	237.0	241.2	304.2	369.2	394.4	537.0	354.5	407.0	3274.5
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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CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5
2.5°	14809.8	14929.4	14807.7	14719.6	14339.9	14027.4	13609.9	13396.0
5°	15919.5	16223.7	16120.9	15751.7	14958.7	14067.2	13054.0	12596.7
7.5°	15785.2	16492.2	16508.9	15818.8	14650.4	13337.2	11965.3	11315.0
10°	14740.6	15644.7	15902.7	15233.5	13993.8	12525.4	10952.1	10209.5
12.5°	13574.3	14459.5	14656.7	14425.9	13389.7	11915.0	10318.6	9590.7
15°	12619.8	13016.3	13251.2	13452.6	12871.5	11671.6	10283.0	9483.7
17.5°	12038.7	11994.7	12061.8	12412.1	12510.7	11950.6	10828.4	9947.3
20°	11829.0	11155.6	11138.8	11621.3	12340.8	12615.6	11894.0	10836.8
22.5°	11944.3	10853.5	10715.1	11287.8	12431.0	13574.3	13291.1	12084.9
25°	12342.9	10878.7	10767.5	11321.3	12758.3	14595.8	14799.3	13700.1
27.5°	12970.1	11038.1	10891.3	11459.8	13192.5	15453.8	16284.5	15265.0
30°	13565.9	11315.0	11132.5	11732.5	13588.9	15793.6	17194.9	16485.9
32.5°	14289.6	11833.2	11512.2	12233.8	14079.8	16334.8	18006.7	17497.0
35°	14998.6	12571.6	12173.0	13007.9	14627.3	17008.2	18933.9	18789.2
37.5°	15776.8	13536.5	13207.2	14008.5	15376.2	17643.8	20117.0	20303.7
40°	16607.5	14816.1	14425.9	15468.5	16538.3	18440.9	21352.6	21801.5
42.5°	17444.5	16236.2	15770.6	16827.8	17815.8	19227.6	22409.8	23074.8
45°	18403.2	17778.1	17557.8	18701.1	19043.0	19976.5	23190.1	24016.6
47.5°	19519.2	19527.5	19882.1	20339.4	20280.6	20823.9	23974.7	24857.8
50°	20821.8	21711.3	22493.7	22797.9	21556.0	21734.3	25063.4	25984.3
52.5°	22386.7	24322.9	25292.0	25092.8	22930.0	22846.1	26787.7	27536.6
55°	24343.9	27087.7	28050.5	27907.9	24509.6	24360.7	28935.8	29372.1
57.5°	26609.4	29766.5	30651.7	30009.8	26405.9	26022.0	30712.5	30804.8
60°	28600.1	31889.3	32665.5	31954.4	28319.0	27790.4	31822.2	31375.4
62.5°	29707.7	32608.8	33154.2	32388.6	29630.1	29674.2	32065.5	31067.0
65°	29212.7	30790.1	30966.3	30903.4	29292.4	30767.1	31190.8	29642.7
67.5°	26502.4	26192.0	26487.7	26896.8	26397.5	29328.0	28767.9	26540.2
70°	21728.0	20022.6	20612.1	20886.9	21113.4	25237.5	24969.0	21616.9
72.5°	16374.7	14027.4	14493.1	14436.4	15485.3	20242.9	19418.5	15894.3
75°	11602.4	9511.0	9569.7	9546.7	10805.3	15837.7	14060.9	10874.5
77.5°	8118.1	6891.0	6922.4	7052.5	7264.4	11944.3	10045.9	7944.0
80°	5582.0	5229.6	5403.7	5414.2	5034.5	8023.7	7421.7	6374.9
82.5°	4157.7	3635.3	3593.4	3654.2	3945.8	6500.8	5703.7	4422.0
85°	3404.6	2152.2	1730.6	2169.0	3496.9	6437.9	3788.5	2332.6
87.5°	1917.3	1021.6	461.5	855.9	1395.0	4262.5	1095.0	297.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)