

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: P269575

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269575
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 29427.8 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

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

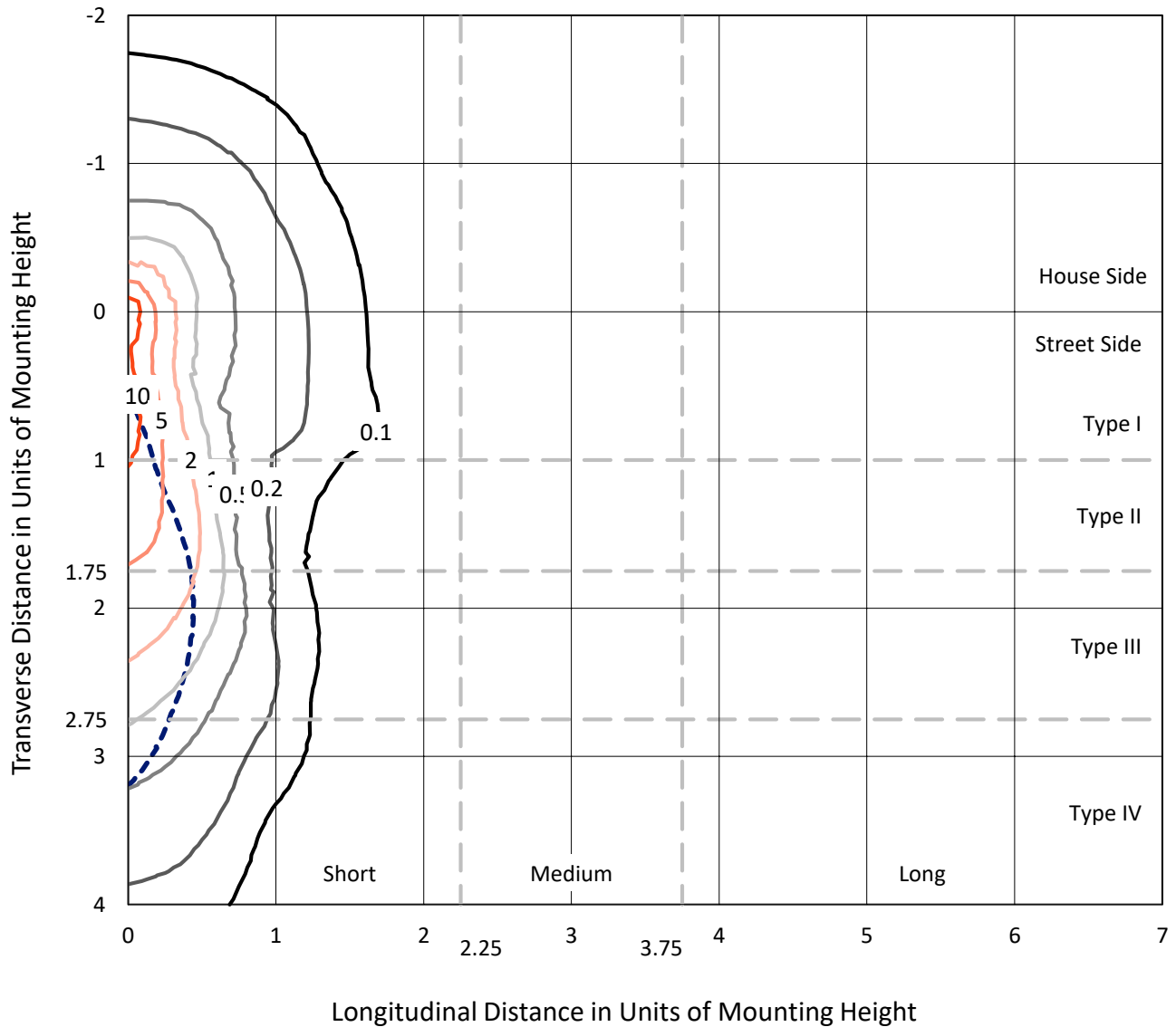


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

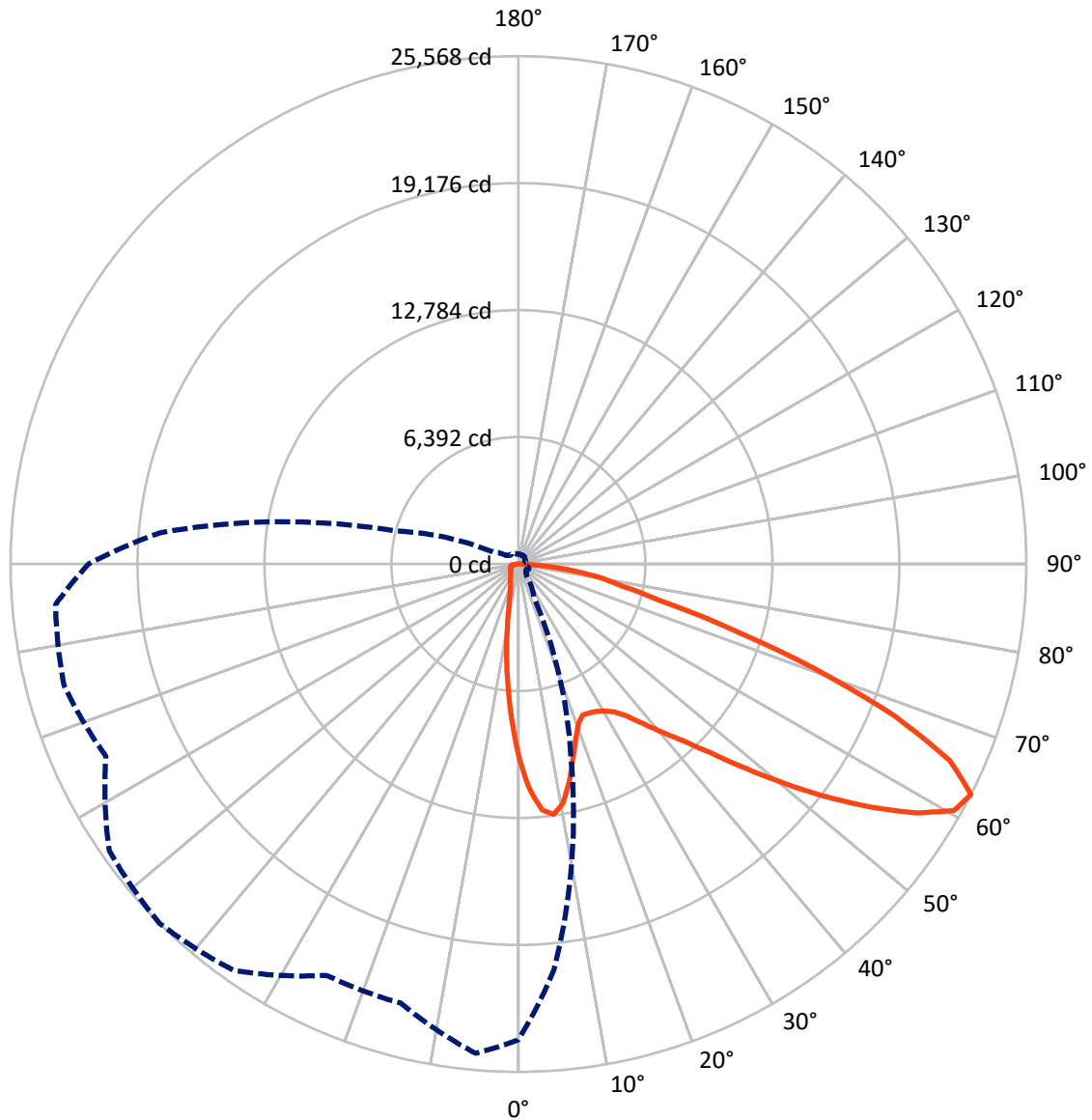


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - Non-Cutoff

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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
House Side	Lumens	4869.9	0.0	4869.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24557.9	0.0	24557.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	29427.8	0.0	29427.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.8	2.5
10°-20°	1327.2	4.5
20°-30°	1935.0	6.6
30°-40°	2980.2	10.1
40°-50°	4386.1	14.9
50°-60°	6433.4	21.9
60°-70°	7191.6	24.4
70°-80°	3520.9	12.0
80°-90°	929.6	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°	29427.8	100.0
0°-180°	29427.8	100.0



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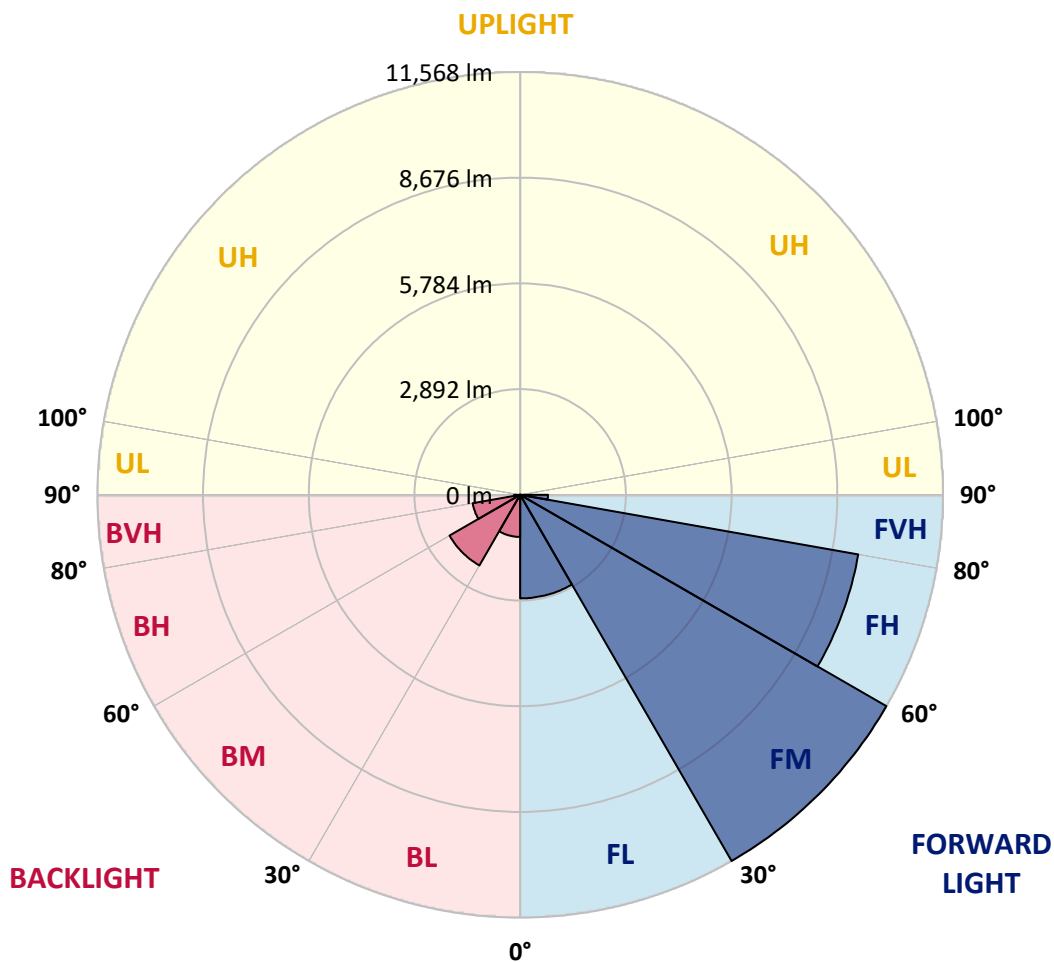
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2833.8	9.6			
FM	(30°-60°)	11568.3	39.3			
FH	(60°-80°)	9392.3	31.9			G4/12000
FVH	(80°-90°)	763.4	2.6			G5
BL	(0°-30°)	1152.1	3.9	B3/2500		
BM	(30°-60°)	2231.4	7.6	B2/2500		
BH	(60°-80°)	1320.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	166.2	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°	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4
2.5°	10330.5	10120.2	9770.9	9406.8	9185.2	8926.4	8724.2	8546.3	8190.3	8120.8	8183.9
5°	9714.2	9292.0	8633.6	7970.3	7528.6	7054.7	6685.8	6389.9	5938.5	5859.3	5954.7
7.5°	8725.7	8221.1	7350.7	6504.6	5880.2	5288.2	4890.3	4573.2	4220.5	4068.5	4078.1
10°	7873.3	7303.8	6275.0	5354.5	4843.3	4443.7	4108.8	3783.8	3426.2	3191.7	3127.0
12.5°	7396.0	6740.9	5555.1	4733.3	4259.4	3838.7	3478.0	3130.2	2748.5	2509.1	2441.1
15°	7313.6	6601.7	5285.0	4335.4	3741.7	3209.5	2784.0	2395.8	2002.7	1808.6	1768.1
17.5°	7671.0	6851.0	5197.7	3981.1	3254.7	2598.0	2075.4	1641.9	1321.6	1224.6	1216.6
20°	8356.9	7329.7	5186.3	3647.8	2774.3	2004.3	1446.2	1130.7	990.0	962.5	964.2
22.5°	9319.5	8072.2	5325.4	3397.1	2332.7	1494.7	1087.0	946.4	891.4	865.4	865.4
25°	10565.1	9094.6	5645.7	3214.3	1949.3	1193.8	959.3	875.2	823.3	805.6	808.8
27.5°	11771.8	10089.6	6017.7	3070.3	1698.5	1083.8	909.2	833.1	787.9	769.9	778.1
30°	12713.4	10972.7	6328.4	2874.7	1570.7	1053.2	927.0	849.3	784.6	757.1	758.7
32.5°	13493.1	11746.0	6588.8	2733.9	1457.5	902.6	799.1	765.1	757.1	724.8	708.6
35°	14489.7	12588.8	6763.5	2737.1	1404.1	805.6	711.7	651.9	608.2	571.1	571.1
37.5°	15657.5	13556.2	6949.6	2774.3	1384.7	748.9	681.0	621.2	580.8	545.1	538.8
40°	16812.6	14504.2	7119.4	2809.9	1373.4	715.1	656.8	601.8	564.6	529.0	519.3
42.5°	17794.5	15283.9	7271.5	2827.8	1334.6	711.7	639.0	588.7	553.3	514.4	504.7
45°	18520.8	15937.4	7434.9	2855.3	1295.7	724.8	639.0	587.2	543.6	506.4	496.7
47.5°	19169.6	16704.3	7708.3	2855.3	1248.9	700.5	660.1	588.7	541.9	503.1	495.1
50°	20038.2	17755.7	8225.9	2788.9	1182.4	674.5	695.6	582.5	527.3	496.7	486.9
52.5°	21235.4	19103.3	9047.6	2674.1	1080.7	624.4	690.7	579.1	512.8	480.5	469.2
55°	22650.9	20546.3	9943.9	2539.8	928.6	588.7	666.5	571.1	496.7	461.0	449.7
57.5°	23755.7	21539.5	10574.8	2332.7	795.9	569.4	590.5	563.0	477.2	440.0	430.3
60°	24195.7	21500.7	10748.0	2056.1	731.2	553.3	516.0	630.9	461.0	423.8	412.5
62.5°	23957.8	20507.3	10262.5	1861.9	716.7	532.2	483.6	584.0	448.2	412.5	396.3
65°	22859.4	18747.4	8976.6	1810.2	758.7	511.1	462.6	457.7	430.3	396.3	380.2
67.5°	20467.0	16117.0	7187.3	1815.0	812.1	490.1	441.6	419.0	406.0	378.5	364.0
70°	16670.2	12742.5	5357.9	1828.1	839.6	466.0	419.0	394.7	380.2	352.7	343.0
72.5°	12257.3	9821.0	3892.1	1743.9	844.4	438.5	388.2	367.1	352.7	323.5	315.5
75°	8386.0	7512.5	2699.9	1444.6	736.0	399.6	354.3	334.9	325.1	289.6	284.8
77.5°	6126.3	5639.2	1727.7	1072.5	567.8	351.1	312.3	297.7	291.2	252.3	245.9
80°	4916.2	4461.6	1080.7	734.5	415.7	294.5	262.0	254.0	247.6	208.6	203.8
82.5°	3410.1	2987.9	694.0	477.2	312.3	228.1	207.1	203.8	194.2	158.6	153.7
85°	1798.9	1622.6	440.0	325.1	226.5	156.9	144.0	144.0	139.1	105.1	101.9
87.5°	229.6	373.6	223.3	169.9	124.5	69.6	69.6	67.9	72.9	59.8	51.7
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°	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4
2.5°	8035.0	8112.8	8038.3	8043.2	8125.6	8371.6	8483.1	8575.3	8674.0	8738.7	8767.8
5°	5823.6	6004.8	6066.3	6195.7	6386.6	6700.5	6825.1	6915.6	6975.5	7011.0	7025.6
7.5°	3982.7	4092.8	4215.7	4424.3	4840.1	5024.5	5107.0	5086.1	5018.0	4993.8	4969.6
10°	3002.4	2958.7	2936.1	3051.0	3387.4	3573.5	3631.7	3575.1	3537.9	3546.0	3586.5
12.5°	2326.3	2250.3	2158.0	2145.1	2366.7	2533.3	2570.5	2573.7	2641.6	2701.6	2790.6
15°	1695.3	1687.2	1641.9	1614.4	1740.6	1876.5	1892.6	1921.8	1983.3	2026.9	2104.5
17.5°	1195.5	1239.1	1274.8	1292.5	1388.1	1485.1	1467.2	1452.6	1441.4	1441.4	1478.6
20°	964.2	993.3	1038.5	1090.4	1187.4	1255.3	1211.6	1153.5	1111.4	1098.4	1103.3
22.5°	868.8	891.4	917.2	962.5	1049.8	1096.8	1049.8	1007.8	965.8	951.1	946.4
25°	820.2	849.3	873.5	907.5	972.2	1004.6	959.3	928.6	902.6	884.9	872.0
27.5°	792.7	818.5	825.1	841.3	896.1	925.3	902.6	889.7	873.5	857.3	841.3
30°	763.6	758.7	747.4	748.9	792.7	821.8	820.2	823.3	821.8	816.9	813.7
32.5°	697.3	687.6	677.9	687.6	727.9	753.9	755.5	761.9	761.9	760.3	773.3
35°	580.8	598.5	609.9	639.0	687.6	710.2	700.5	684.2	655.1	637.3	635.7
37.5°	537.0	540.3	559.7	600.2	653.5	674.5	660.1	622.9	603.4	600.2	605.0
40°	516.0	519.3	530.5	567.8	621.2	642.2	629.4	601.8	584.0	582.5	590.5
42.5°	501.4	504.7	511.1	537.0	580.8	606.6	608.2	588.7	567.8	569.4	577.5
45°	493.3	495.1	493.3	506.4	546.8	577.5	590.5	577.5	559.7	563.0	572.7
47.5°	491.8	486.9	480.5	483.6	525.8	556.5	572.7	567.8	559.7	563.0	571.1
50°	485.4	473.9	466.0	464.2	506.4	538.8	553.3	553.3	556.5	563.0	571.1
52.5°	466.0	452.9	452.9	448.2	493.3	524.2	533.9	535.5	540.3	551.6	563.0
55°	441.6	436.8	441.6	433.5	483.6	512.8	517.7	520.8	524.2	533.9	550.0
57.5°	420.5	414.1	425.4	422.3	475.7	501.4	501.4	507.9	507.9	520.8	533.9
60°	409.3	396.3	401.3	404.4	464.2	491.8	488.6	495.1	498.2	509.6	519.3
62.5°	394.7	383.3	383.3	391.5	451.3	477.2	475.7	480.5	493.3	496.7	506.4
65°	376.8	372.1	367.1	376.8	438.5	461.0	462.6	469.2	480.5	483.6	491.8
67.5°	359.1	360.7	351.1	360.7	427.1	444.9	444.9	457.7	462.6	469.2	477.2
70°	339.6	341.4	333.2	344.6	419.0	427.1	425.4	443.3	446.5	451.3	459.5
72.5°	315.5	315.5	312.3	328.4	406.0	409.3	406.0	420.5	422.3	427.1	430.3
75°	289.6	289.6	286.3	308.9	397.9	389.9	380.2	391.5	394.7	397.9	397.9
77.5°	255.6	258.8	258.8	286.3	370.5	381.8	349.4	355.9	360.7	362.3	357.5
80°	213.5	221.6	224.8	260.5	310.6	352.7	312.3	317.0	318.7	318.7	312.3
82.5°	163.4	178.0	185.9	224.8	237.8	296.0	271.7	276.6	271.7	262.0	258.8
85°	113.2	132.7	142.3	171.4	179.7	228.1	226.5	226.5	216.9	203.8	202.2
87.5°	61.4	72.9	79.3	101.9	123.0	153.7	166.6	161.8	153.7	145.5	147.2
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°	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4
2.5°	8919.9	9140.0	9491.0	9759.5	10029.7	10290.1	10571.6	10786.7	10969.6	11040.7	11257.5
5°	7172.7	7447.8	7779.4	8378.0	8801.9	9269.3	9809.6	10524.6	10799.7	11179.8	11802.7
7.5°	5071.4	5320.5	5854.4	6338.1	6938.2	7599.9	8329.4	9316.2	9677.0	10286.9	11301.1
10°	3787.0	4076.6	4505.3	4912.9	5441.9	6118.0	6956.0	8059.4	8497.6	9159.3	10327.3
12.5°	3051.0	3392.3	3846.8	4230.3	4639.6	5116.7	5930.4	7140.4	7727.7	8306.7	9487.7
15°	2344.0	2701.6	3123.8	3610.6	4062.0	4576.4	5428.9	6752.2	7428.4	8031.7	9039.6
17.5°	1622.6	1928.3	2460.5	2968.4	3546.0	4204.3	5289.8	6834.8	7641.9	8337.6	9117.3
20°	1150.2	1324.9	1761.7	2350.4	3070.3	3896.9	5264.0	7268.2	8318.1	9112.3	9615.5
22.5°	967.4	1032.2	1286.1	1826.3	2657.8	3667.3	5354.5	7876.5	9230.5	10244.8	10409.7
25°	881.6	920.5	1053.2	1433.2	2290.7	3500.7	5660.3	8782.4	10359.7	11377.2	11348.1
27.5°	834.7	875.2	962.5	1210.0	2014.0	3397.1	5966.1	9856.6	11650.6	12606.6	12244.3
30°	820.2	875.2	967.4	1140.5	1816.6	3233.8	6216.8	10799.7	12643.9	13436.5	12651.9
32.5°	808.8	816.9	859.0	983.6	1628.9	3042.9	6386.6	11645.6	13616.0	14225.9	13239.1
35°	653.5	694.0	761.9	881.6	1519.0	2928.0	6386.6	12375.3	14573.7	15023.4	13798.9
37.5°	629.4	664.8	724.8	826.6	1457.5	2871.4	6258.9	13079.0	15552.4	15927.7	14259.9
40°	616.3	645.4	702.0	784.6	1431.7	2806.7	6072.8	13700.2	16508.4	16833.6	14690.3
42.5°	606.6	632.4	685.9	758.7	1397.7	2735.5	5922.3	14198.4	17338.4	17606.9	15101.0
45°	601.8	629.4	687.6	771.6	1329.8	2641.6	5872.2	14737.1	18021.0	18252.3	15546.0
47.5°	601.8	634.2	695.6	799.1	1248.9	2544.5	6029.2	15447.3	18666.4	18779.6	16070.0
50°	597.0	632.4	718.3	771.6	1130.7	2421.7	6398.0	16341.8	19365.3	19378.2	16733.3
52.5°	587.2	629.4	773.3	755.5	994.9	2259.9	6896.2	17490.4	20399.0	20476.7	17771.9
55°	576.0	624.4	758.7	718.3	883.3	2067.4	7303.8	18886.4	21851.7	22066.9	19298.9
57.5°	561.4	617.9	734.5	666.5	810.5	1819.8	7451.0	19908.9	22865.9	23406.2	21020.2
60°	548.3	613.2	663.3	635.7	765.1	1611.2	7166.4	19706.6	22796.4	23961.1	22545.7
62.5°	535.5	617.9	605.0	616.3	744.2	1477.0	6422.3	18087.4	21643.0	23388.5	23676.4
65°	520.8	574.2	571.1	600.2	739.2	1423.5	5323.7	15659.2	19413.8	21578.2	23943.3
67.5°	501.4	530.5	546.8	579.1	755.5	1376.7	4296.6	12917.2	16315.9	18865.5	22552.0
70°	480.5	504.7	522.5	553.3	745.8	1355.6	3573.5	10186.6	12946.4	15461.8	19806.9
72.5°	452.9	473.9	490.1	519.3	736.0	1344.4	3018.7	8203.3	9665.7	11485.5	16104.0
75°	420.5	440.0	451.3	480.5	705.3	1231.0	2373.1	6941.6	7232.7	7989.7	12826.5
77.5°	383.3	397.9	407.7	440.0	624.4	1024.0	1716.3	5354.5	5616.7	5801.1	9833.8
80°	339.6	354.3	359.1	389.9	517.7	800.7	1119.5	3955.2	4201.2	4243.1	6422.3
82.5°	289.6	304.2	304.2	333.2	423.8	576.0	734.5	2709.6	2758.2	2900.4	4539.2
85°	232.9	244.2	244.2	258.8	328.4	430.3	504.7	1360.5	1345.9	1536.8	3932.6
87.5°	166.6	174.7	182.7	185.9	234.5	284.8	304.2	414.1	273.4	313.9	2525.1
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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CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7027-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4
2.5°	11420.8	11513.0	11419.3	11351.3	11058.5	10817.5	10495.5	10330.5
5°	12276.5	12511.1	12432.0	12147.2	11535.8	10848.2	10066.9	9714.2
7.5°	12173.0	12718.3	12731.1	12199.0	11298.0	10285.2	9227.3	8725.7
10°	11367.4	12064.6	12263.7	11747.7	10791.6	9659.1	8446.0	7873.3
12.5°	10467.9	11150.8	11302.7	11124.8	10325.7	9188.5	7957.4	7396.0
15°	9732.0	10037.8	10218.8	10374.2	9926.1	9000.7	7929.9	7313.6
17.5°	9284.0	9249.8	9301.7	9571.8	9647.8	9215.9	8350.5	7671.0
20°	9122.1	8602.9	8590.0	8962.0	9516.9	9728.7	9172.2	8356.9
22.5°	9211.1	8369.9	8263.1	8704.8	9586.4	10467.9	10249.7	9319.5
25°	9518.4	8389.4	8303.6	8730.6	9838.7	11255.9	11412.7	10565.1
27.5°	10002.2	8512.2	8399.1	8837.3	10173.7	11917.5	12558.0	11771.8
30°	10461.5	8725.7	8585.0	9047.6	10479.4	12179.5	13260.2	12713.4
32.5°	11019.7	9125.3	8877.9	9434.3	10858.0	12596.9	13886.2	13493.1
35°	11566.4	9694.8	9387.4	10031.3	11280.0	13116.2	14601.2	14489.7
37.5°	12166.6	10438.9	10185.0	10802.8	11857.5	13606.4	15513.5	15657.5
40°	12807.1	11425.7	11124.8	11928.9	12753.9	14221.1	16466.4	16812.6
42.5°	13452.7	12520.8	12161.8	12977.0	13738.9	14827.8	17281.8	17794.5
45°	14192.0	13709.8	13540.1	14421.7	14685.3	15405.3	17883.5	18520.8
47.5°	15052.5	15058.9	15332.5	15685.0	15639.9	16058.7	18488.5	19169.6
50°	16057.2	16743.0	17346.5	17581.0	16623.3	16760.8	19328.1	20038.2
52.5°	17263.9	18757.0	19504.4	19350.7	17682.9	17618.2	20657.9	21235.4
55°	18773.1	20889.1	21631.6	21521.7	18901.0	18786.2	22314.3	22650.9
57.5°	20520.3	22954.8	23637.6	23142.6	20363.4	20067.3	23684.5	23755.7
60°	22055.5	24592.0	25190.6	24642.1	21838.8	21431.0	24540.3	24195.7
62.5°	22909.7	25147.0	25567.5	24977.1	22849.7	22883.8	24728.0	23957.8
65°	22527.9	23744.4	23880.3	23831.8	22589.3	23726.6	24053.3	22859.4
67.5°	20437.8	20198.4	20426.5	20742.0	20356.9	22616.8	22184.9	20467.0
70°	16755.9	15440.7	15895.4	16107.2	16282.0	19462.4	19255.3	16670.2
72.5°	12627.7	10817.5	11176.6	11133.0	11941.8	15610.7	14974.8	12257.3
75°	8947.4	7334.7	7379.8	7362.1	8332.7	12213.5	10843.4	8386.0
77.5°	6260.5	5314.2	5338.4	5438.7	5602.0	9211.1	7747.2	6126.3
80°	4304.7	4032.9	4167.1	4175.2	3882.5	6187.6	5723.5	4916.2
82.5°	3206.2	2803.4	2771.1	2818.1	3042.9	5013.3	4398.6	3410.1
85°	2625.4	1659.8	1334.6	1672.6	2696.7	4964.7	2921.6	1798.9
87.5°	1478.6	787.9	355.9	660.1	1075.8	3287.2	844.4	229.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)