

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: P192116

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192116
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA 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: 27622 lumens
Efficiency: N/A
Efficacy: 107.5 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): 257
Input Voltage (V): NR
Input Current (A_{in}): 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

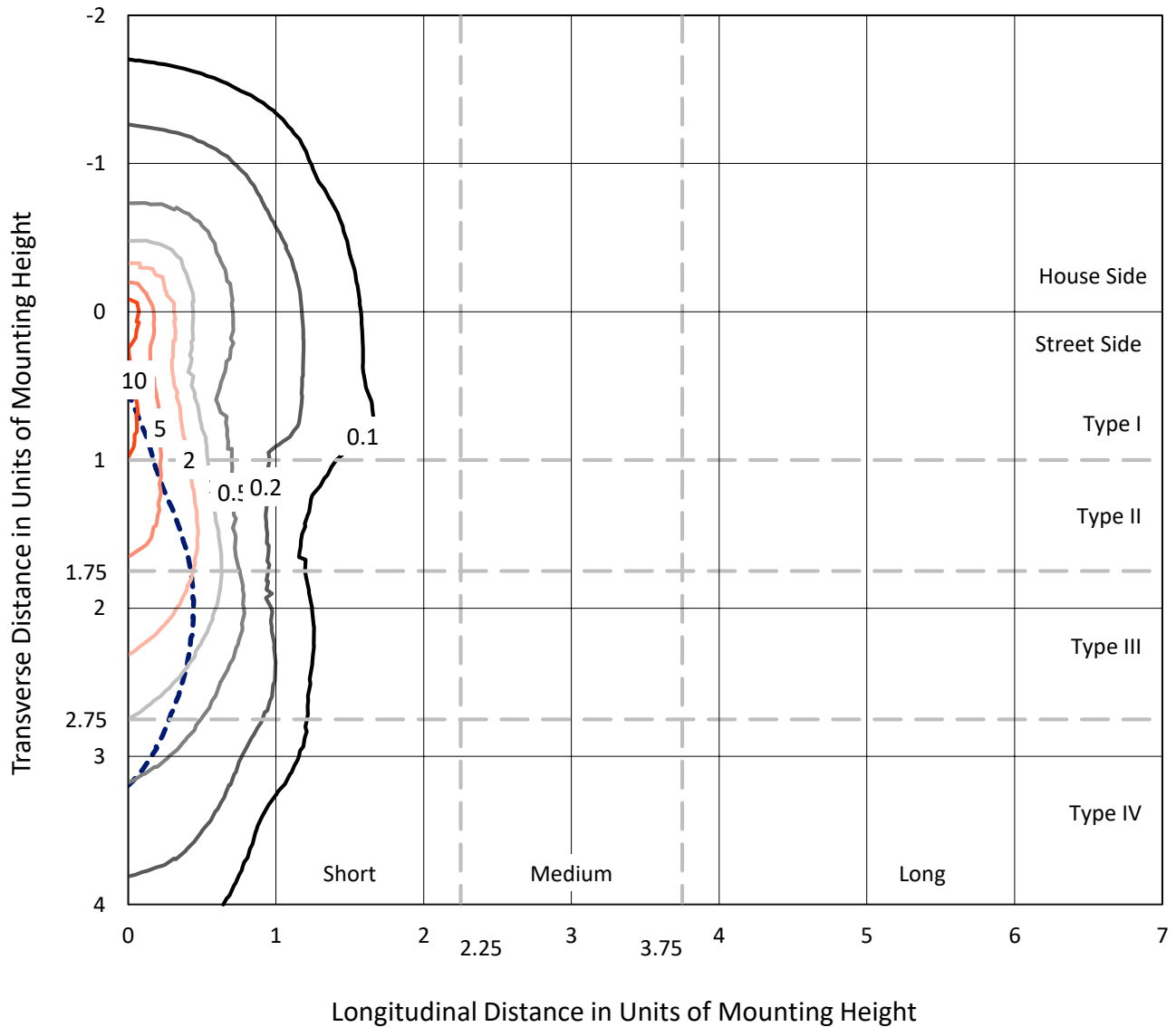


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Iso-Footcandle Lines of Horizontal Illumination

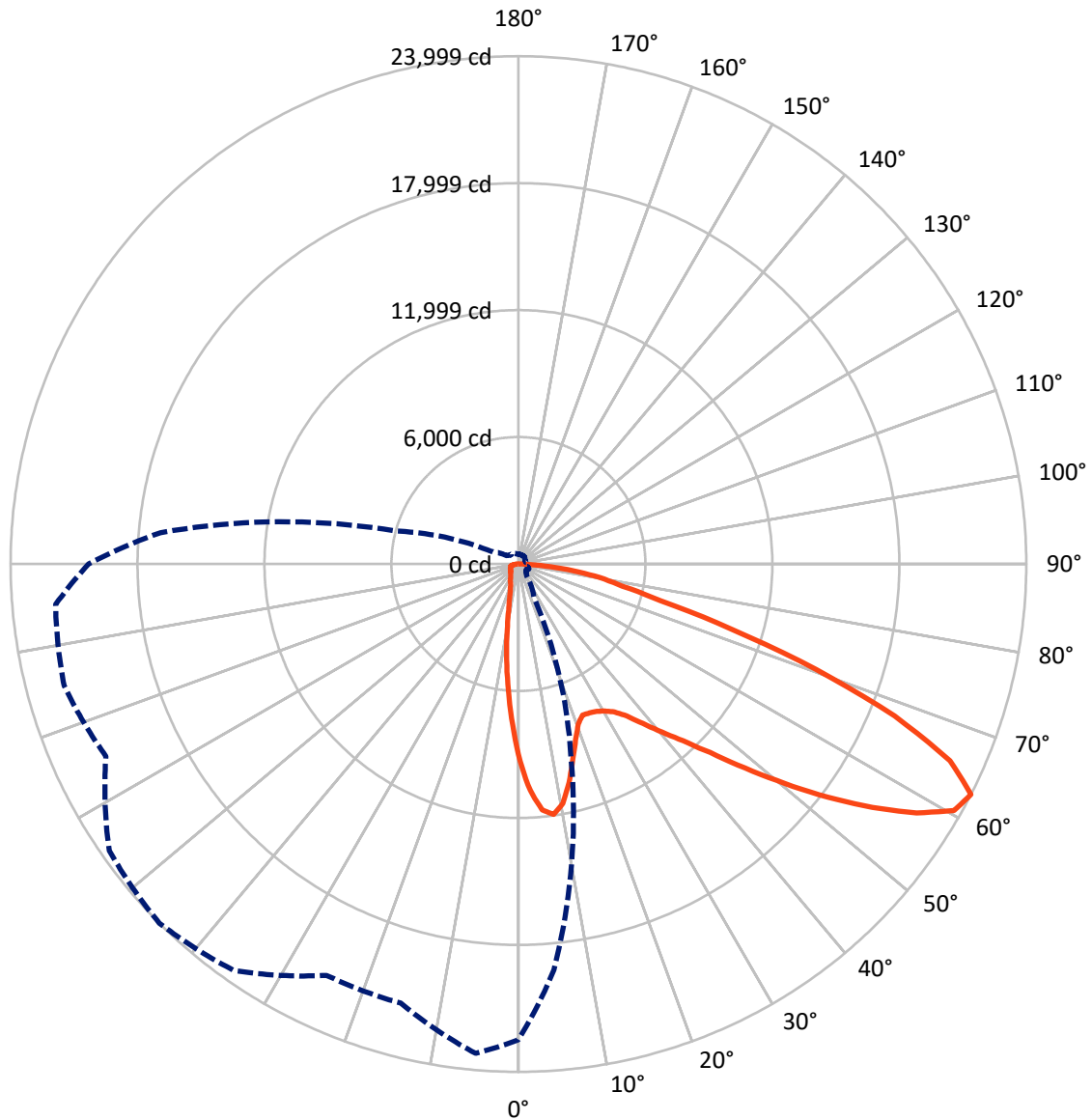
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	4571.1	0.0	4571.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23050.9	0.0	23050.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	27622.0	0.0	27622.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.3	2.5
10°-20°	1245.7	4.5
20°-30°	1816.3	6.6
30°-40°	2797.3	10.1
40°-50°	4116.9	14.9
50°-60°	6038.6	21.9
60°-70°	6750.3	24.4
70°-80°	3304.9	12.0
80°-90°	872.6	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°	27622.0	100.0
0°-180°	27622.0	100.0



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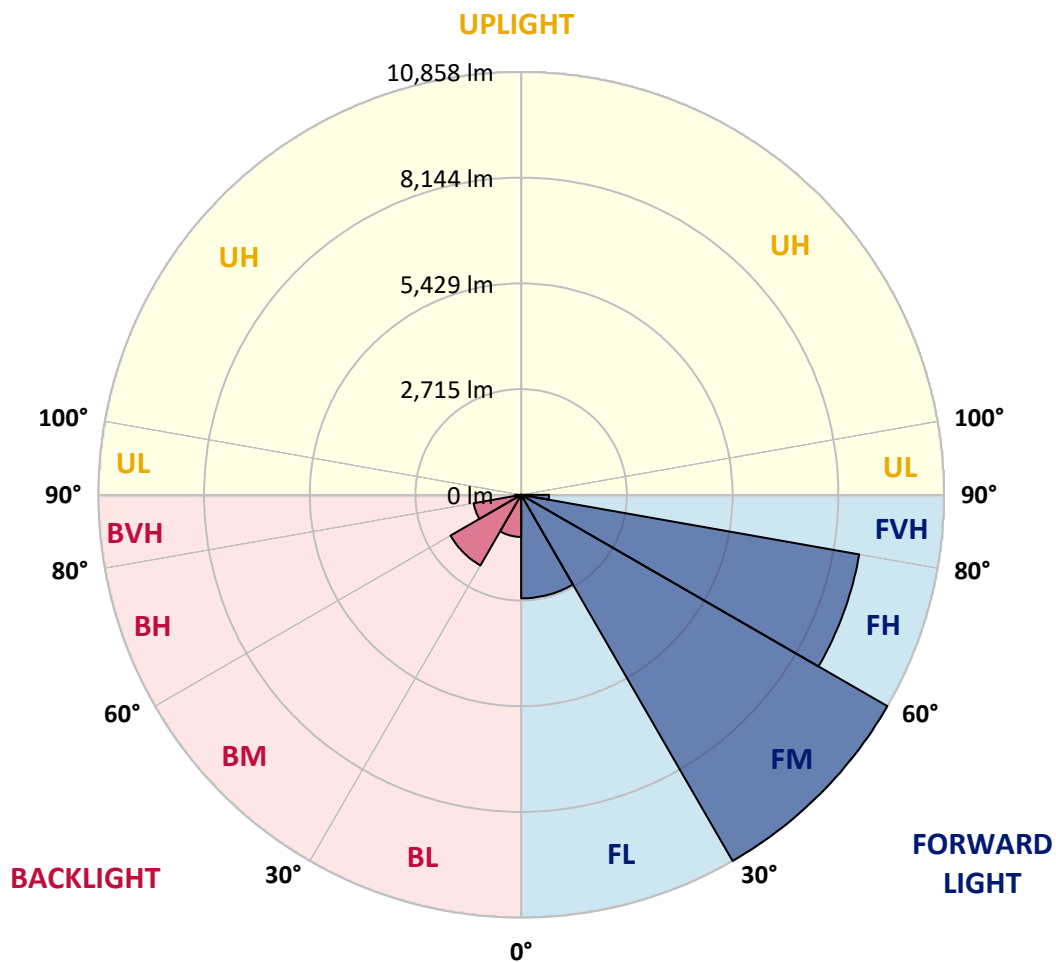
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2659.9	9.6			
FM	(30°-60°)	10858.5	39.3			
FH	(60°-80°)	8816.0	31.9			G4/12000
FVH	(80°-90°)	716.6	2.6			G4/750
BL	(0°-30°)	1081.4	3.9	B3/2500		
BM	(30°-60°)	2094.4	7.6	B2/2500		
BH	(60°-80°)	1239.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	156.0	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°	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2
2.5°	9696.6	9499.2	9171.2	8829.6	8621.6	8378.6	8188.8	8021.8	7687.8	7622.5	7681.7
5°	9118.1	8721.8	8103.8	7481.2	7066.7	6621.8	6275.6	5997.8	5574.1	5499.7	5589.3
7.5°	8190.3	7716.6	6899.7	6105.6	5519.5	4963.7	4590.2	4292.6	3961.6	3818.8	3827.9
10°	7390.1	6855.7	5889.9	5026.0	4546.1	4171.1	3856.8	3551.6	3216.0	2995.8	2935.1
12.5°	6942.2	6327.2	5214.2	4442.9	3998.0	3603.2	3264.6	2938.1	2579.8	2355.1	2291.3
15°	6864.8	6196.7	4960.7	4069.4	3512.1	3012.5	2613.2	2248.8	1879.8	1697.6	1659.6
17.5°	7200.3	6430.5	4878.7	3736.8	3055.1	2438.6	1948.1	1541.2	1240.5	1149.4	1141.9
20°	7844.1	6880.0	4868.0	3424.0	2604.1	1881.3	1357.5	1061.4	929.3	903.5	905.0
22.5°	8747.6	7576.9	4998.6	3188.7	2189.6	1403.0	1020.4	888.3	836.6	812.4	812.4
25°	9916.8	8536.5	5299.3	3017.1	1829.7	1120.6	900.4	821.5	772.9	756.2	759.2
27.5°	11049.5	9470.4	5648.5	2882.0	1594.3	1017.3	853.4	782.0	739.5	722.8	730.4
30°	11933.3	10299.4	5940.1	2698.2	1474.4	988.5	870.1	797.2	736.4	710.6	712.1
32.5°	12665.1	11025.2	6184.5	2566.1	1368.1	847.3	750.1	718.2	710.6	680.3	665.1
35°	13600.5	11816.3	6348.5	2569.2	1318.0	756.2	668.1	611.9	570.9	536.0	536.0
37.5°	14696.8	12724.3	6523.1	2604.1	1299.8	703.0	639.3	583.1	545.1	511.7	505.6
40°	15780.9	13614.1	6682.6	2637.5	1289.1	671.1	616.5	564.9	529.9	496.5	487.4
42.5°	16702.6	14346.0	6825.3	2654.2	1252.7	668.1	599.8	552.7	519.3	482.9	473.7
45°	17384.4	14959.5	6978.7	2680.0	1216.3	680.3	599.8	551.2	510.2	475.3	466.2
47.5°	17993.3	15679.2	7235.3	2680.0	1172.2	657.5	619.5	552.7	508.7	472.2	464.6
50°	18808.6	16666.2	7721.2	2617.8	1110.0	633.2	652.9	546.6	495.0	466.2	457.0
52.5°	19932.3	17931.0	8492.5	2509.9	1014.3	586.1	648.4	543.6	481.3	451.0	440.3
55°	21260.9	19285.4	9333.7	2383.9	871.6	552.7	625.6	536.0	466.2	432.7	422.1
57.5°	22298.0	20217.7	9925.9	2189.6	747.1	534.5	554.2	528.4	447.9	413.0	403.9
60°	22711.0	20181.3	10088.4	1929.9	686.3	519.3	484.4	592.2	432.7	397.8	387.2
62.5°	22487.8	19249.0	9632.8	1747.7	672.7	499.6	454.0	548.1	420.6	387.2	372.0
65°	21456.8	17597.0	8425.7	1699.1	712.1	479.8	434.3	429.7	403.9	372.0	356.8
67.5°	19211.0	15128.0	6746.3	1703.7	762.2	460.1	414.5	393.3	381.1	355.3	341.6
70°	15647.3	11960.6	5029.0	1715.8	788.1	437.3	393.3	370.5	356.8	331.0	321.9
72.5°	11505.1	9218.3	3653.3	1636.9	792.6	411.5	364.4	344.7	331.0	303.7	296.1
75°	7871.5	7051.5	2534.2	1355.9	690.9	375.0	332.5	314.3	305.2	271.8	267.2
77.5°	5750.3	5293.2	1621.7	1006.7	533.0	329.5	293.1	279.4	273.3	236.9	230.8
80°	4614.5	4187.8	1014.3	689.4	390.2	276.4	246.0	238.4	232.3	195.9	191.3
82.5°	3200.8	2804.5	651.4	447.9	293.1	214.1	194.4	191.3	182.2	148.8	144.2
85°	1688.5	1523.0	413.0	305.2	212.6	147.3	135.1	135.1	130.6	98.7	95.7
87.5°	215.6	350.8	209.5	159.4	116.9	65.3	65.3	63.8	68.3	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°	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2
2.5°	7542.0	7614.9	7545.0	7549.6	7627.0	7857.8	7962.6	8049.1	8141.8	8202.5	8229.8
5°	5466.3	5636.4	5694.1	5815.5	5994.7	6289.3	6406.2	6491.2	6547.4	6580.8	6594.5
7.5°	3738.3	3841.6	3957.0	4152.9	4543.1	4716.2	4793.6	4773.9	4710.1	4687.4	4664.6
10°	2818.2	2777.2	2755.9	2863.7	3179.6	3354.2	3408.8	3355.7	3320.8	3328.4	3366.3
12.5°	2183.5	2112.1	2025.6	2013.4	2221.4	2377.8	2412.8	2415.8	2479.6	2535.8	2619.3
15°	1591.3	1583.7	1541.2	1515.4	1633.8	1761.4	1776.5	1803.9	1861.6	1902.6	1975.5
17.5°	1122.1	1163.1	1196.5	1213.2	1302.8	1393.9	1377.2	1363.5	1352.9	1352.9	1387.8
20°	905.0	932.3	974.8	1023.4	1114.5	1178.3	1137.3	1082.6	1043.2	1031.0	1035.6
22.5°	815.4	836.6	860.9	903.5	985.5	1029.5	985.5	946.0	906.5	892.8	888.3
25°	769.8	797.2	819.9	851.8	912.6	942.9	900.4	871.6	847.3	830.6	818.4
27.5°	744.0	768.3	774.4	789.6	841.2	868.5	847.3	835.1	819.9	804.8	789.6
30°	716.7	712.1	701.5	703.0	744.0	771.4	769.8	772.9	771.4	766.8	763.8
32.5°	654.4	645.3	636.2	645.3	683.3	707.6	709.1	715.2	715.2	713.7	725.8
35°	545.1	561.8	572.4	599.8	645.3	666.6	657.5	642.3	615.0	598.3	596.7
37.5°	504.1	507.2	525.4	563.3	613.4	633.2	619.5	584.6	566.4	563.3	567.9
40°	484.4	487.4	498.0	533.0	583.1	602.8	590.7	564.9	548.1	546.6	554.2
42.5°	470.7	473.7	479.8	504.1	545.1	569.4	570.9	552.7	533.0	534.5	542.1
45°	463.1	464.6	463.1	475.3	513.2	542.1	554.2	542.1	525.4	528.4	537.5
47.5°	461.6	457.0	451.0	454.0	493.5	522.3	537.5	533.0	525.4	528.4	536.0
50°	455.5	444.9	437.3	435.8	475.3	505.6	519.3	519.3	522.3	528.4	536.0
52.5°	437.3	425.2	425.2	420.6	463.1	492.0	501.1	502.6	507.2	517.8	528.4
55°	414.5	410.0	414.5	406.9	454.0	481.3	485.9	488.9	492.0	501.1	516.3
57.5°	394.8	388.7	399.3	396.3	446.4	470.7	470.7	476.8	476.8	488.9	501.1
60°	384.2	372.0	376.6	379.6	435.8	461.6	458.6	464.6	467.7	478.3	487.4
62.5°	370.5	359.9	359.9	367.5	423.6	447.9	446.4	451.0	463.1	466.2	475.3
65°	353.8	349.2	344.7	353.8	411.5	432.7	434.3	440.3	451.0	454.0	461.6
67.5°	337.1	338.6	329.5	338.6	400.9	417.6	417.6	429.7	434.3	440.3	447.9
70°	318.9	320.4	312.8	323.4	393.3	400.9	399.3	416.0	419.1	423.6	431.2
72.5°	296.1	296.1	293.1	308.2	381.1	384.2	381.1	394.8	396.3	400.9	403.9
75°	271.8	271.8	268.8	290.0	373.5	365.9	356.8	367.5	370.5	373.5	373.5
77.5°	239.9	242.9	242.9	268.8	347.7	358.3	328.0	334.1	338.6	340.1	335.6
80°	200.4	208.0	211.1	244.5	291.5	331.0	293.1	297.6	299.1	299.1	293.1
82.5°	153.4	167.0	174.6	211.1	223.2	277.9	255.1	259.6	255.1	246.0	242.9
85°	106.3	124.5	133.6	161.0	168.5	214.1	212.6	212.6	203.5	191.3	189.8
87.5°	57.7	68.3	74.4	95.7	115.4	144.2	156.4	151.8	144.2	136.7	138.2
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°	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2
2.5°	8372.6	8579.1	8908.6	9160.6	9414.2	9658.7	9922.9	10124.8	10296.4	10363.2	10566.7
5°	6732.7	6990.8	7302.1	7863.9	8261.7	8700.5	9207.7	9878.8	10137.0	10493.8	11078.4
7.5°	4760.2	4994.1	5495.2	5949.2	6512.5	7133.5	7818.3	8744.6	9083.2	9655.6	10607.7
10°	3554.6	3826.4	4228.8	4611.4	5108.0	5742.7	6529.2	7564.8	7976.3	8597.3	9693.6
12.5°	2863.7	3184.1	3610.8	3970.7	4354.8	4802.8	5566.5	6702.3	7253.5	7797.1	8905.5
15°	2200.2	2535.8	2932.1	3389.1	3812.7	4295.6	5095.8	6337.9	6972.6	7538.9	8484.9
17.5°	1523.0	1810.0	2309.5	2786.3	3328.4	3946.4	4965.2	6415.3	7173.0	7825.9	8557.8
20°	1079.6	1243.6	1653.6	2206.3	2882.0	3657.9	4940.9	6822.3	7807.7	8553.3	9025.5
22.5°	908.0	968.8	1207.1	1714.3	2494.8	3442.3	5026.0	7393.2	8664.1	9616.1	9771.0
25°	827.5	864.0	988.5	1345.3	2150.1	3285.9	5312.9	8243.5	9724.0	10679.0	10651.7
27.5°	783.5	821.5	903.5	1135.8	1890.4	3188.7	5599.9	9251.7	10935.6	11833.0	11492.9
30°	769.8	821.5	908.0	1070.5	1705.2	3035.3	5835.3	10137.0	11868.0	12612.0	11875.6
32.5°	759.2	766.8	806.3	923.2	1529.0	2856.1	5994.7	10931.1	12780.5	13353.0	12426.7
35°	613.4	651.4	715.2	827.5	1425.8	2748.3	5994.7	11615.9	13679.4	14101.6	12952.1
37.5°	590.7	624.1	680.3	775.9	1368.1	2695.2	5874.8	12276.4	14598.1	14950.3	13384.9
40°	578.5	605.8	659.0	736.4	1343.8	2634.5	5700.1	12859.5	15495.5	15800.7	13788.8
42.5°	569.4	593.7	643.8	712.1	1311.9	2567.6	5558.9	13327.2	16274.4	16526.5	14174.4
45°	564.9	590.7	645.3	724.3	1248.1	2479.6	5511.9	13832.8	16915.2	17132.3	14592.0
47.5°	564.9	595.2	652.9	750.1	1172.2	2388.5	5659.1	14499.4	17521.0	17627.3	15084.0
50°	560.3	593.7	674.2	724.3	1061.4	2273.1	6005.3	15339.1	18177.0	18189.1	15706.5
52.5°	551.2	590.7	725.8	709.1	933.8	2121.2	6473.0	16417.1	19147.3	19220.1	16681.3
55°	540.6	586.1	712.1	674.2	829.1	1940.5	6855.7	17727.5	20510.8	20712.7	18114.7
57.5°	526.9	580.0	689.4	625.6	760.7	1708.2	6993.8	18687.2	21462.8	21970.0	19730.3
60°	514.7	575.5	622.6	596.7	718.2	1512.3	6726.6	18497.4	21397.6	22490.8	21162.2
62.5°	502.6	580.0	567.9	578.5	698.5	1386.3	6028.1	16977.4	20314.9	21953.3	22223.6
65°	488.9	539.0	536.0	563.3	693.9	1336.2	4997.1	14698.3	18222.5	20254.2	22474.1
67.5°	470.7	498.0	513.2	543.6	709.1	1292.2	4032.9	12124.6	15314.8	17707.8	21168.3
70°	451.0	473.7	490.4	519.3	700.0	1272.4	3354.2	9561.5	12151.9	14513.0	18591.5
72.5°	425.2	444.9	460.1	487.4	690.9	1261.8	2833.4	7699.9	9072.5	10780.8	15115.9
75°	394.8	413.0	423.6	451.0	662.0	1155.5	2227.5	6515.5	6788.8	7499.5	12039.5
77.5°	359.9	373.5	382.6	413.0	586.1	961.2	1611.0	5026.0	5271.9	5445.0	9230.5
80°	318.9	332.5	337.1	365.9	485.9	751.6	1050.7	3712.5	3943.3	3982.8	6028.1
82.5°	271.8	285.5	285.5	312.8	397.8	540.6	689.4	2543.4	2588.9	2722.5	4260.7
85°	218.7	229.3	229.3	242.9	308.2	403.9	473.7	1277.0	1263.3	1442.5	3691.3
87.5°	156.4	164.0	171.6	174.6	220.2	267.2	285.5	388.7	256.6	294.6	2370.3
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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CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7050-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2
2.5°	10720.0	10806.6	10718.5	10654.7	10379.9	10153.7	9851.5	9696.6
5°	11523.3	11743.4	11669.0	11401.8	10827.8	10182.5	9449.1	9118.1
7.5°	11426.1	11937.8	11950.0	11450.4	10604.6	9654.1	8661.1	8190.3
10°	10669.9	11324.4	11511.1	11026.8	10129.4	9066.5	7927.7	7390.1
12.5°	9825.7	10466.5	10609.2	10442.2	9692.1	8624.6	7469.1	6942.2
15°	9134.8	9421.8	9591.8	9737.6	9317.0	8448.5	7443.3	6864.8
17.5°	8714.2	8682.3	8730.9	8984.5	9055.8	8650.4	7838.1	7200.3
20°	8562.4	8074.9	8062.8	8412.0	8932.9	9131.8	8609.4	7844.1
22.5°	8645.9	7856.3	7756.1	8170.6	8998.1	9825.7	9620.7	8747.6
25°	8934.4	7874.5	7794.0	8194.9	9235.0	10565.2	10712.4	9916.8
27.5°	9388.4	7989.9	7883.6	8295.1	9549.3	11186.2	11787.5	11049.5
30°	9819.6	8190.3	8058.2	8492.5	9836.3	11432.2	12446.5	11933.3
32.5°	10343.5	8565.4	8333.1	8855.4	10191.6	11823.9	13034.1	12665.1
35°	10856.7	9099.9	8811.4	9415.7	10587.9	12311.3	13705.2	13600.5
37.5°	11420.0	9798.4	9560.0	10140.0	11130.0	12771.4	14561.6	14696.8
40°	12021.3	10724.6	10442.2	11196.8	11971.2	13348.4	15456.0	15780.9
42.5°	12627.2	11752.6	11415.5	12180.8	12895.9	13917.8	16221.3	16702.6
45°	13321.1	12868.6	12709.2	13536.7	13784.2	14459.9	16786.1	17384.4
47.5°	14128.9	14135.0	14391.6	14722.6	14680.1	15073.3	17354.0	17993.3
50°	15071.8	15715.6	16282.0	16502.2	15603.3	15732.3	18142.1	18808.6
52.5°	16204.6	17606.1	18307.6	18163.3	16597.8	16537.1	19390.2	19932.3
55°	17621.2	19607.3	20304.3	20201.0	17741.2	17633.4	20945.1	21260.9
57.5°	19261.1	21546.4	22187.1	21722.5	19113.9	18836.0	22231.2	22298.0
60°	20702.1	23083.0	23644.8	23130.1	20498.6	20116.0	23034.4	22711.0
62.5°	21503.8	23603.8	23998.6	23444.4	21447.7	21479.5	23210.5	22487.8
65°	21145.5	22287.3	22414.9	22369.3	21203.2	22270.6	22577.4	21456.8
67.5°	19183.7	18959.0	19173.1	19469.2	19107.8	21229.0	20823.6	19211.0
70°	15727.8	14493.3	14920.0	15118.9	15282.9	18268.1	18073.7	15647.3
72.5°	11852.8	10153.7	10490.8	10449.8	11209.0	14652.7	14056.0	11505.1
75°	8398.4	6884.5	6927.0	6910.3	7821.4	11464.1	10178.0	7871.5
77.5°	5876.3	4988.0	5010.8	5104.9	5258.3	8645.9	7271.7	5750.3
80°	4040.5	3785.4	3911.4	3919.0	3644.2	5808.0	5372.2	4614.5
82.5°	3009.5	2631.4	2601.1	2645.1	2856.1	4705.6	4128.6	3200.8
85°	2464.4	1557.9	1252.7	1570.0	2531.2	4660.0	2742.3	1688.5
87.5°	1387.8	739.5	334.1	619.5	1009.7	3085.4	792.6	215.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)