

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: P269654

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269654  
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-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 26769.9 lumens  
Efficiency: N/A  
Efficacy: 92.3 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 - G4

Input Watts (W): 290  
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

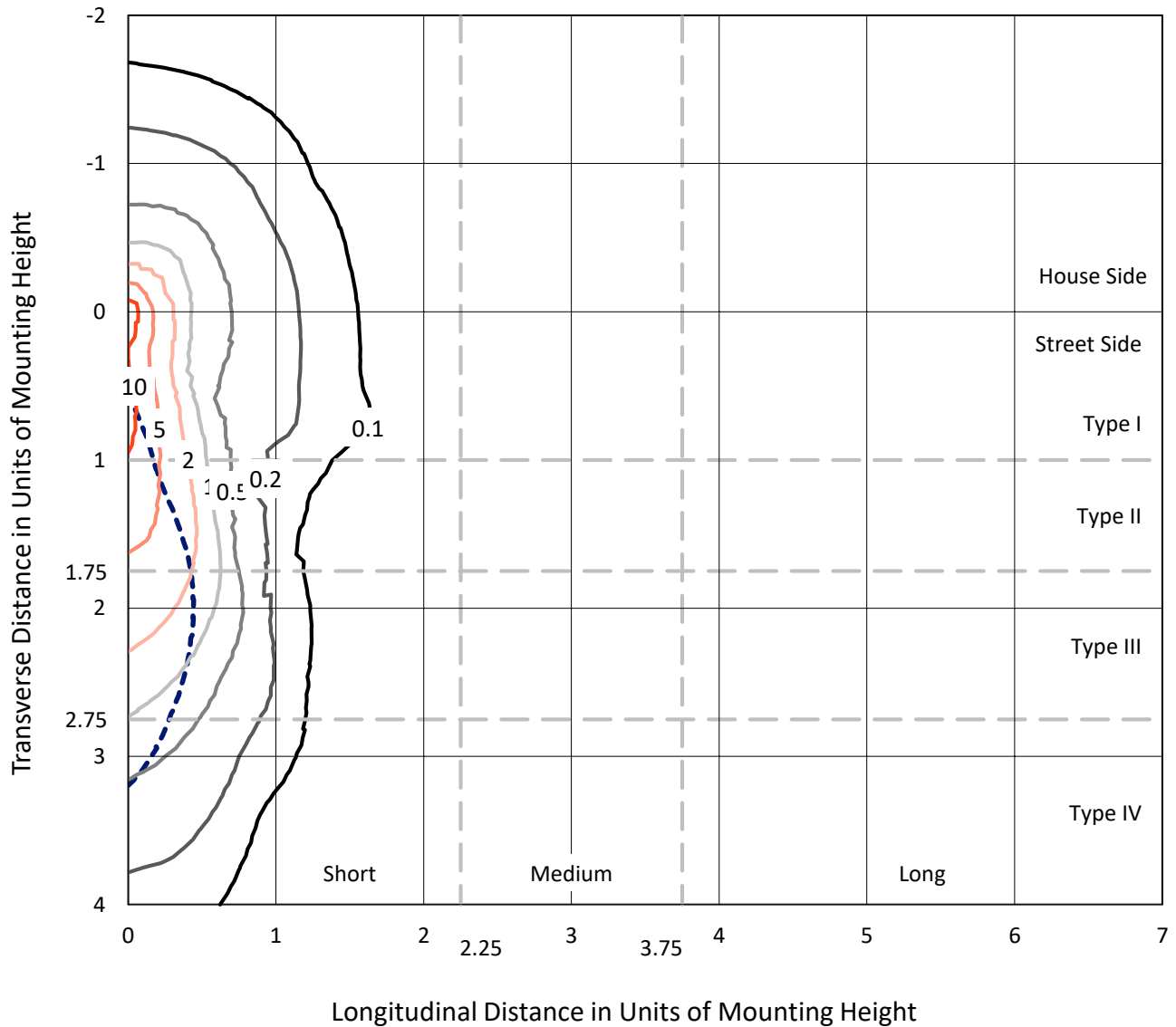


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

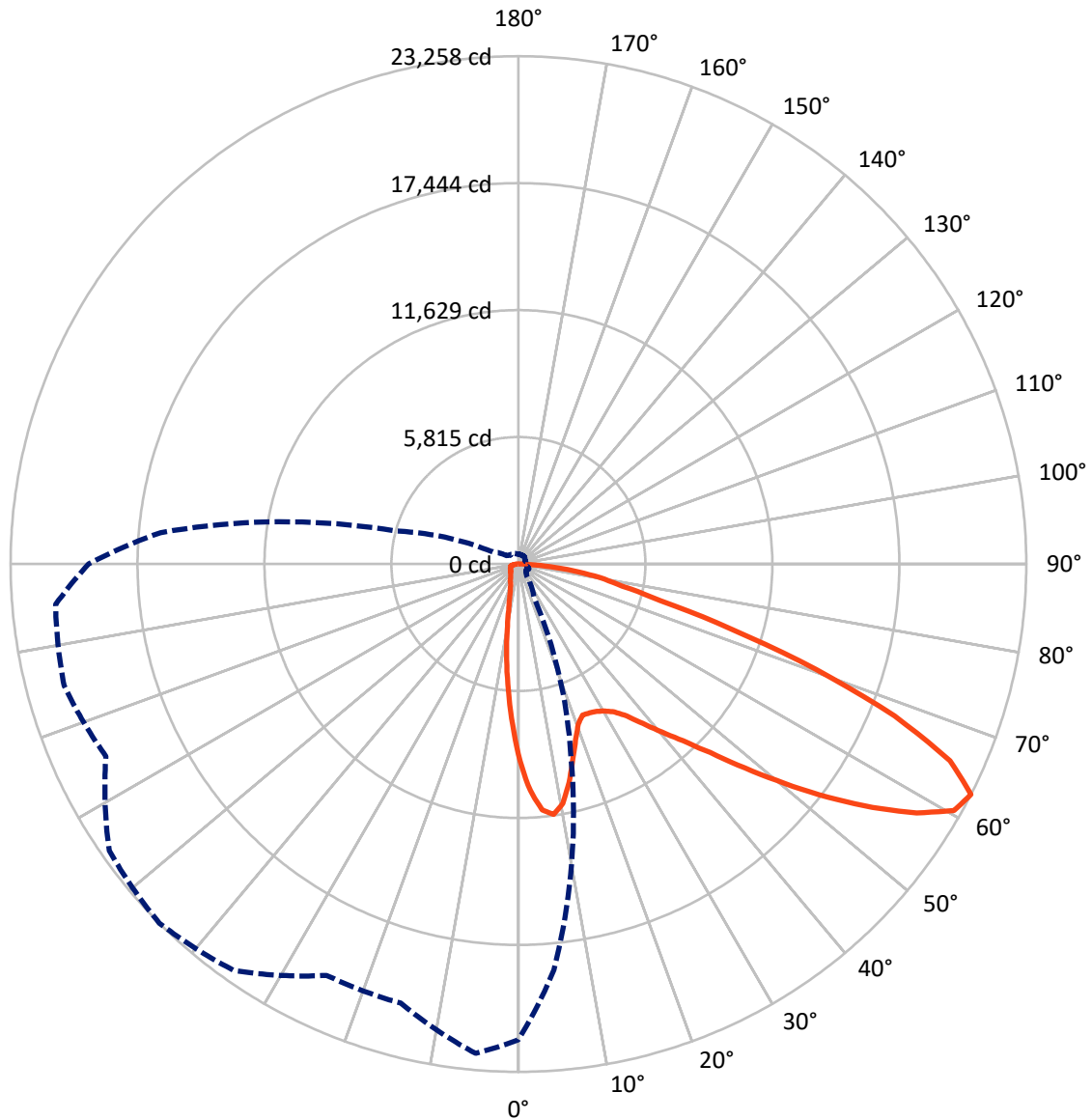


Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	4430.1	0.0	4430.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	22339.9	0.0	22339.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	26769.9	0.0	26769.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	658.4	2.5
10°-20°	1207.3	4.5
20°-30°	1760.2	6.6
30°-40°	2711.0	10.1
40°-50°	3989.9	14.9
50°-60°	5852.4	21.9
60°-70°	6542.1	24.4
70°-80°	3202.9	12.0
80°-90°	845.6	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°	26769.9	100.0
0°-180°	26769.9	100.0



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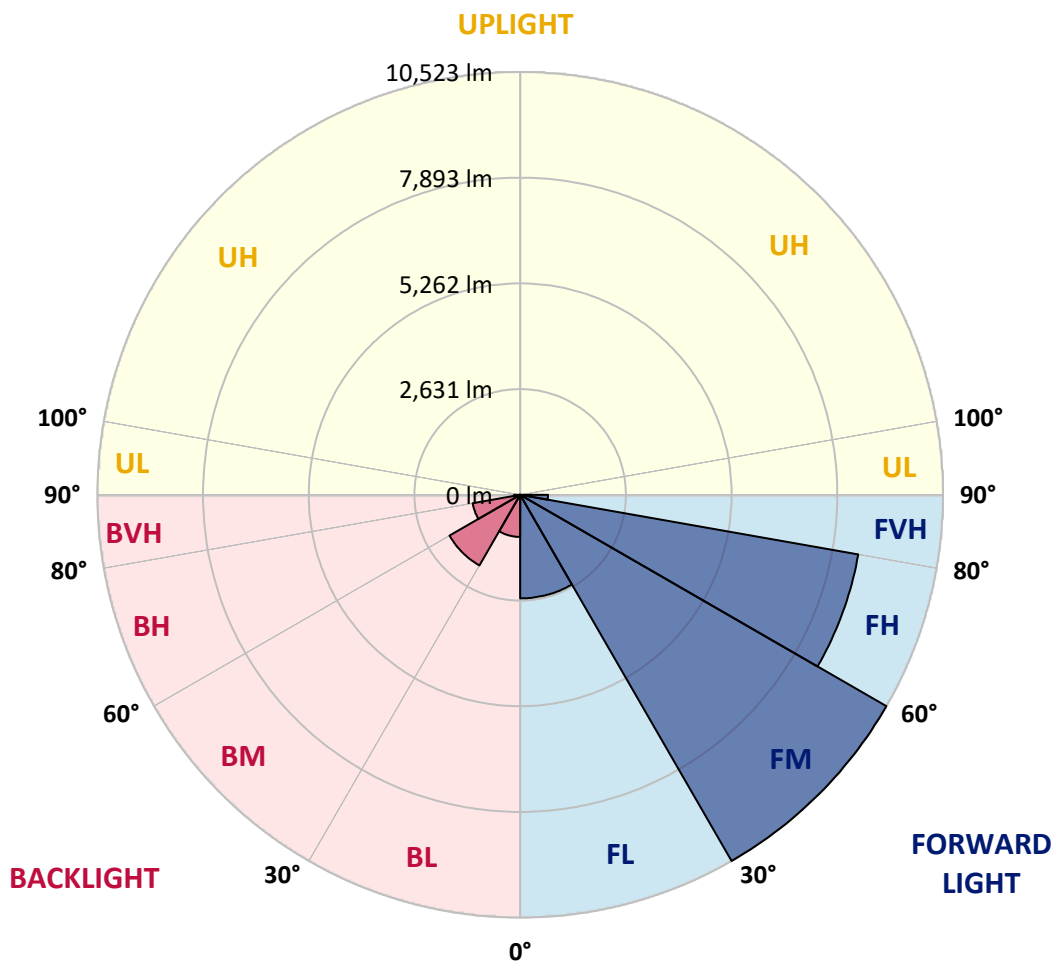
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2577.9	9.6			
FM (30°-60°)	10523.5	39.3			
FH (60°-80°)	8544.0	31.9			G4/12000
FVH (80°-90°)	694.5	2.6			G4/750
BL (0°-30°)	1048.1	3.9	B3/2500		
BM (30°-60°)	2029.8	7.6	B2/2500		
BH (60°-80°)	1201.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	151.2	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3
2.5°	9397.4	9206.2	8888.3	8557.3	8355.7	8120.1	7936.3	7774.3	7450.6	7387.3	7444.8
5°	8836.8	8452.7	7853.8	7250.5	6848.7	6417.5	6082.1	5812.8	5402.1	5330.1	5416.9
7.5°	7937.8	7478.6	6686.9	5917.2	5349.1	4810.7	4448.5	4160.1	3839.4	3700.9	3709.8
10°	7162.1	6644.1	5708.3	4870.9	4405.8	4042.5	3737.8	3442.0	3116.8	2903.4	2844.6
12.5°	6728.0	6132.1	5053.3	4305.8	3874.7	3492.0	3163.9	2847.4	2500.3	2282.5	2220.6
15°	6652.9	6005.4	4807.6	3943.7	3403.8	2919.6	2532.6	2179.4	1821.9	1645.2	1608.4
17.5°	6978.3	6232.1	4728.1	3621.5	2960.9	2363.4	1888.1	1493.6	1202.3	1114.0	1106.6
20°	7602.1	6667.7	4717.9	3318.3	2523.8	1823.3	1315.6	1028.6	900.6	875.6	877.0
22.5°	8477.8	7343.1	4844.4	3090.3	2122.1	1359.8	988.9	860.8	810.8	787.3	787.3
25°	9610.8	8273.2	5135.8	2924.1	1773.3	1086.1	872.7	796.1	749.0	732.8	735.8
27.5°	10708.6	9178.3	5474.4	2793.1	1545.2	986.0	827.0	757.9	716.7	700.5	707.9
30°	11565.0	9981.6	5756.8	2615.0	1428.9	958.0	843.1	772.6	713.8	688.7	690.2
32.5°	12274.4	10685.1	5993.8	2487.0	1325.9	821.1	727.0	696.0	688.7	659.3	644.5
35°	13180.9	11451.9	6152.8	2489.9	1277.3	732.8	647.5	593.1	553.4	519.5	519.5
37.5°	14243.3	12331.8	6321.9	2523.8	1259.7	681.4	619.6	565.0	528.4	496.0	490.0
40°	15294.2	13194.1	6476.4	2556.1	1249.4	650.5	597.5	547.4	513.7	481.2	472.4
42.5°	16187.4	13903.4	6614.7	2572.3	1214.1	647.5	581.3	535.7	503.3	467.9	459.2
45°	16848.2	14497.9	6763.3	2597.3	1178.8	659.3	581.3	534.2	494.4	460.7	451.8
47.5°	17438.2	15195.5	7012.1	2597.3	1136.0	637.2	600.3	535.7	493.0	457.6	450.3
50°	18228.4	16152.1	7483.1	2537.1	1075.7	613.6	632.8	529.8	479.8	451.8	443.0
52.5°	19317.4	17377.8	8230.5	2432.5	983.0	568.0	628.4	526.9	466.5	437.0	426.8
55°	20605.1	18690.6	9045.8	2310.4	844.6	535.7	606.3	519.5	451.8	419.4	409.1
57.5°	21610.2	19594.1	9619.7	2122.1	724.0	518.1	537.1	512.2	434.2	400.3	391.4
60°	22010.5	19558.7	9777.2	1870.5	665.1	503.3	469.5	573.8	419.4	385.6	375.2
62.5°	21794.0	18655.2	9335.6	1693.8	651.9	484.1	440.0	531.3	407.7	375.2	360.5
65°	20794.9	17054.1	8165.9	1646.8	690.2	465.1	420.9	416.5	391.4	360.5	345.8
67.5°	18618.5	14661.3	6538.3	1651.2	738.8	445.9	401.7	381.2	369.4	344.3	331.1
70°	15164.6	11591.5	4873.8	1662.9	763.7	423.8	381.2	359.1	345.8	320.9	312.0
72.5°	11150.1	8934.0	3540.6	1586.3	768.2	398.8	353.2	334.1	320.9	294.4	287.0
75°	7628.6	6834.0	2456.1	1314.1	669.5	363.5	322.3	304.6	295.8	263.5	259.0
77.5°	5572.8	5130.0	1571.7	975.6	516.5	319.3	284.0	270.7	264.9	229.5	223.7
80°	4472.1	4058.6	983.0	668.1	378.1	267.9	238.4	231.0	225.1	189.8	185.4
82.5°	3102.0	2718.0	631.2	434.2	284.0	207.5	188.4	185.4	176.5	144.2	139.7
85°	1636.4	1475.9	400.3	295.8	206.0	142.7	131.0	131.0	126.5	95.7	92.7
87.5°	208.9	339.9	203.0	154.5	113.2	63.3	63.3	61.9	66.3	54.4	47.2
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°	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3
2.5°	7309.2	7379.9	7312.3	7316.6	7391.8	7615.4	7717.0	7800.8	7890.6	7949.6	7976.0
5°	5297.7	5462.6	5518.4	5636.1	5809.8	6095.3	6208.5	6291.0	6345.4	6377.8	6391.0
7.5°	3623.0	3723.0	3835.0	4024.8	4403.0	4570.8	4645.8	4626.6	4564.8	4542.8	4520.7
10°	2731.2	2691.5	2670.9	2775.5	3081.5	3250.6	3303.6	3252.1	3218.4	3225.8	3262.5
12.5°	2116.1	2047.0	1963.1	1951.3	2152.9	2304.5	2338.4	2341.3	2403.1	2457.6	2538.5
15°	1542.2	1534.8	1493.6	1468.5	1583.4	1707.0	1721.7	1748.2	1804.2	1844.0	1914.5
17.5°	1087.5	1127.3	1159.6	1175.8	1262.6	1351.0	1334.7	1321.4	1311.2	1311.2	1345.0
20°	877.0	903.5	944.7	991.9	1080.1	1141.9	1102.2	1049.2	1011.0	999.3	1003.6
22.5°	790.1	810.8	834.3	875.6	955.1	997.7	955.1	916.8	878.5	865.2	860.8
25°	746.1	772.6	794.6	825.5	884.4	913.8	872.7	844.6	821.1	804.9	793.2
27.5°	721.1	744.7	750.5	765.3	815.2	841.7	821.1	809.4	794.6	780.0	765.3
30°	694.6	690.2	679.8	681.4	721.1	747.6	746.1	749.0	747.6	743.2	740.3
32.5°	634.3	625.4	616.5	625.4	662.2	685.8	687.3	693.1	693.1	691.6	703.5
35°	528.4	544.6	554.9	581.3	625.4	646.1	637.2	622.4	595.9	579.8	578.2
37.5°	488.6	491.6	509.2	546.0	594.5	613.6	600.3	566.6	549.0	546.0	550.4
40°	469.5	472.4	482.7	516.5	565.0	584.2	572.4	547.4	531.3	529.8	537.1
42.5°	456.2	459.2	465.1	488.6	528.4	551.9	553.4	535.7	516.5	518.1	525.4
45°	448.9	450.3	448.9	460.7	497.4	525.4	537.1	525.4	509.2	512.2	520.9
47.5°	447.4	443.0	437.0	440.0	478.3	506.3	520.9	516.5	509.2	512.2	519.5
50°	441.4	431.1	423.8	422.4	460.7	490.0	503.3	503.3	506.3	512.2	519.5
52.5°	423.8	412.1	412.1	407.7	448.9	476.8	485.7	487.2	491.6	501.9	512.2
55°	401.7	397.3	401.7	394.4	440.0	466.5	470.9	473.9	476.8	485.7	500.4
57.5°	382.6	376.7	387.0	384.0	432.7	456.2	456.2	462.1	462.1	473.9	485.7
60°	372.3	360.5	364.9	367.9	422.4	447.4	444.4	450.3	453.3	463.5	472.4
62.5°	359.1	348.7	348.7	356.1	410.5	434.2	432.7	437.0	448.9	451.8	460.7
65°	342.9	338.4	334.1	342.9	398.8	419.4	420.9	426.8	437.0	440.0	447.4
67.5°	326.8	328.2	319.3	328.2	388.4	404.6	404.6	416.5	420.9	426.8	434.2
70°	309.0	310.5	303.2	313.5	381.2	388.4	387.0	403.2	406.2	410.5	417.9
72.5°	287.0	287.0	284.0	298.7	369.4	372.3	369.4	382.6	384.0	388.4	391.4
75°	263.5	263.5	260.5	281.1	361.9	354.7	345.8	356.1	359.1	361.9	361.9
77.5°	232.5	235.4	235.4	260.5	337.0	347.3	317.9	323.7	328.2	329.7	325.2
80°	194.3	201.6	204.5	237.0	282.5	320.9	284.0	288.4	290.0	290.0	284.0
82.5°	148.6	161.9	169.2	204.5	216.3	269.3	247.3	251.6	247.3	238.4	235.4
85°	103.0	120.6	129.4	155.9	163.3	207.5	206.0	206.0	197.2	185.4	184.0
87.5°	56.0	66.3	72.1	92.7	111.8	139.7	151.5	147.1	139.7	132.4	133.8
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3
2.5°	8114.3	8314.4	8633.7	8877.9	9123.7	9360.7	9616.7	9812.5	9978.7	10043.5	10240.7
5°	6525.0	6775.1	7076.8	7621.3	8006.9	8432.1	8923.7	9574.0	9824.3	10170.2	10736.6
7.5°	4613.3	4840.0	5325.6	5765.6	6311.6	6913.4	7577.2	8474.8	8803.0	9357.7	10280.5
10°	3445.0	3708.4	4098.3	4469.2	4950.4	5565.4	6327.8	7331.3	7730.3	8332.0	9394.6
12.5°	2775.5	3085.9	3499.3	3848.2	4220.4	4654.6	5394.9	6495.6	7029.7	7556.5	8630.7
15°	2132.2	2457.6	2841.6	3284.6	3695.2	4163.0	4938.6	6142.4	6757.5	7306.4	8223.2
17.5°	1475.9	1754.1	2238.2	2700.3	3225.8	3824.7	4812.1	6217.3	6951.8	7584.5	8293.8
20°	1046.3	1205.3	1602.5	2138.1	2793.1	3545.0	4788.5	6611.7	7566.9	8289.4	8747.1
22.5°	880.0	938.9	1170.0	1661.4	2417.8	3336.0	4870.9	7165.2	8396.8	9319.5	9469.7
25°	801.9	837.3	958.0	1303.8	2083.8	3184.5	5149.1	7989.2	9423.9	10349.6	10323.1
27.5°	759.3	796.1	875.6	1100.8	1832.2	3090.3	5427.2	8966.3	10598.4	11468.0	11138.4
30°	746.1	796.1	880.0	1037.5	1652.6	2941.7	5655.3	9824.3	11501.9	12222.9	11509.3
32.5°	735.8	743.2	781.4	894.7	1481.8	2768.0	5809.8	10593.9	12386.3	12941.1	12043.3
35°	594.5	631.2	693.1	801.9	1381.9	2663.6	5809.8	11257.6	13257.5	13666.5	12552.6
37.5°	572.4	604.7	659.3	752.1	1325.9	2612.0	5693.5	11897.7	14147.8	14489.1	12972.0
40°	560.6	587.1	638.6	713.8	1302.4	2553.3	5524.2	12462.7	15017.4	15313.2	13363.4
42.5°	551.9	575.4	624.0	690.2	1271.5	2488.5	5387.4	12916.0	15772.4	16016.7	13737.2
45°	547.4	572.4	625.4	701.9	1209.7	2403.1	5341.9	13406.0	16393.3	16603.8	14141.8
47.5°	547.4	576.8	632.8	727.0	1136.0	2314.8	5484.6	14052.0	16980.5	17083.5	14618.7
50°	543.0	575.4	653.3	701.9	1028.6	2203.0	5820.1	14866.0	17616.2	17628.0	15222.0
52.5°	534.2	572.4	703.5	687.3	905.0	2055.9	6273.4	15910.7	18556.6	18627.3	16166.7
55°	523.9	568.0	690.2	653.3	803.4	1880.7	6644.1	17180.7	19878.1	20073.7	17555.9
57.5°	510.6	562.1	668.1	606.3	737.2	1655.5	6778.2	18110.6	20800.8	21292.3	19121.7
60°	498.9	557.8	603.3	578.2	696.0	1465.7	6519.1	17926.8	20737.5	21797.1	20509.4
62.5°	487.2	562.1	550.4	560.6	677.0	1343.5	5842.1	16453.7	19688.2	21276.0	21538.0
65°	473.9	522.5	519.5	546.0	672.6	1294.9	4842.9	14244.9	17660.4	19629.4	21780.8
67.5°	456.2	482.7	497.4	526.9	687.3	1252.2	3908.5	11750.5	14842.3	17161.5	20515.2
70°	437.0	459.2	475.4	503.3	678.4	1233.2	3250.6	9266.6	11777.0	14065.3	18018.1
72.5°	412.1	431.1	445.9	472.4	669.5	1223.0	2745.9	7462.4	8792.7	10448.1	14649.6
75°	382.6	400.3	410.5	437.0	641.6	1119.8	2158.7	6314.5	6579.5	7268.1	11668.2
77.5°	348.7	361.9	370.8	400.3	568.0	931.5	1561.3	4870.9	5109.3	5277.1	8945.7
80°	309.0	322.3	326.8	354.7	470.9	728.4	1018.3	3598.0	3821.7	3859.9	5842.1
82.5°	263.5	276.7	276.7	303.2	385.6	523.9	668.1	2464.9	2509.1	2638.5	4129.2
85°	211.9	222.2	222.2	235.4	298.7	391.4	459.2	1237.5	1224.4	1398.0	3577.4
87.5°	151.5	158.9	166.2	169.2	213.3	259.0	276.7	376.7	248.7	285.5	2297.1
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-09-LED-E1-SLR-7027-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3
2.5°	10389.3	10473.2	10387.9	10326.0	10059.7	9840.5	9547.5	9397.4
5°	11167.8	11381.2	11309.1	11050.1	10493.8	9868.4	9157.6	8836.8
7.5°	11073.6	11569.5	11581.3	11097.1	10277.5	9356.2	8393.9	7937.8
10°	10340.7	10975.0	11156.1	10686.5	9816.9	8786.9	7683.2	7162.1
12.5°	9522.7	10143.7	10281.9	10120.0	9393.0	8358.5	7238.7	6728.0
15°	8852.9	9131.1	9296.0	9437.2	9029.7	8187.8	7213.7	6652.9
17.5°	8445.3	8414.5	8461.6	8707.4	8776.5	8383.6	7596.2	6978.3
20°	8298.3	7825.9	7814.0	8152.6	8657.2	8850.1	8343.8	7602.1
22.5°	8379.2	7613.9	7516.7	7918.6	8720.6	9522.7	9323.9	8477.8
25°	8658.8	7631.6	7553.6	7942.2	8950.2	10239.2	10382.0	9610.8
27.5°	9098.8	7743.4	7640.4	8039.2	9254.8	10841.1	11423.8	10708.6
30°	9516.7	7937.8	7809.7	8230.5	9532.9	11079.5	12062.5	11565.0
32.5°	10024.4	8301.1	8076.0	8582.2	9877.3	11459.1	12632.1	12274.4
35°	10521.8	8819.2	8539.6	9125.3	10261.2	11931.6	13282.5	13180.9
37.5°	11067.7	9496.2	9265.1	9827.2	10786.7	12377.4	14112.5	14243.3
40°	11650.5	10393.7	10120.0	10851.4	11601.9	12936.6	14979.1	15294.2
42.5°	12237.6	11390.0	11063.3	11804.9	12498.1	13488.5	15720.9	16187.4
45°	12910.1	12471.6	12317.1	13119.0	13359.0	14013.7	16268.2	16848.2
47.5°	13693.0	13699.0	13947.7	14268.4	14227.3	14608.3	16818.6	17438.2
50°	14606.9	15230.9	15779.7	15993.2	15122.0	15247.0	17582.4	18228.4
52.5°	15704.7	17062.9	17742.9	17602.9	16085.8	16026.9	18792.1	19317.4
55°	17077.7	19002.4	19677.9	19577.9	17193.9	17089.4	20298.9	20605.1
57.5°	18667.0	20881.7	21502.6	21052.4	18524.2	18254.9	21545.4	21610.2
60°	20063.5	22370.9	22915.5	22416.6	19866.2	19495.5	22323.8	22010.5
62.5°	20840.5	22875.7	23258.2	22721.2	20786.1	20817.0	22494.5	21794.0
65°	20493.3	21599.8	21723.4	21679.2	20549.1	21583.7	21880.8	20794.9
67.5°	18592.0	18374.1	18581.6	18868.5	18518.3	20574.2	20181.2	18618.5
70°	15242.6	14046.2	14459.7	14652.6	14811.4	17704.5	17516.2	15164.6
72.5°	11487.2	9840.5	10167.1	10127.4	10863.3	14200.8	13622.3	11150.1
75°	8139.4	6672.2	6713.4	6697.1	7580.1	11110.3	9864.0	7628.6
77.5°	5695.1	4834.0	4856.1	4947.4	5096.1	8379.2	7047.5	5572.8
80°	3915.9	3668.7	3790.8	3798.2	3531.7	5628.8	5206.4	4472.1
82.5°	2916.6	2550.3	2520.9	2563.6	2768.0	4560.4	4001.2	3102.0
85°	2388.4	1509.8	1214.1	1521.5	2453.1	4516.3	2657.6	1636.4
87.5°	1345.0	716.7	323.7	600.3	978.7	2990.3	768.2	208.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)