

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: P193816

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193816  
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-SLL-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22540 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

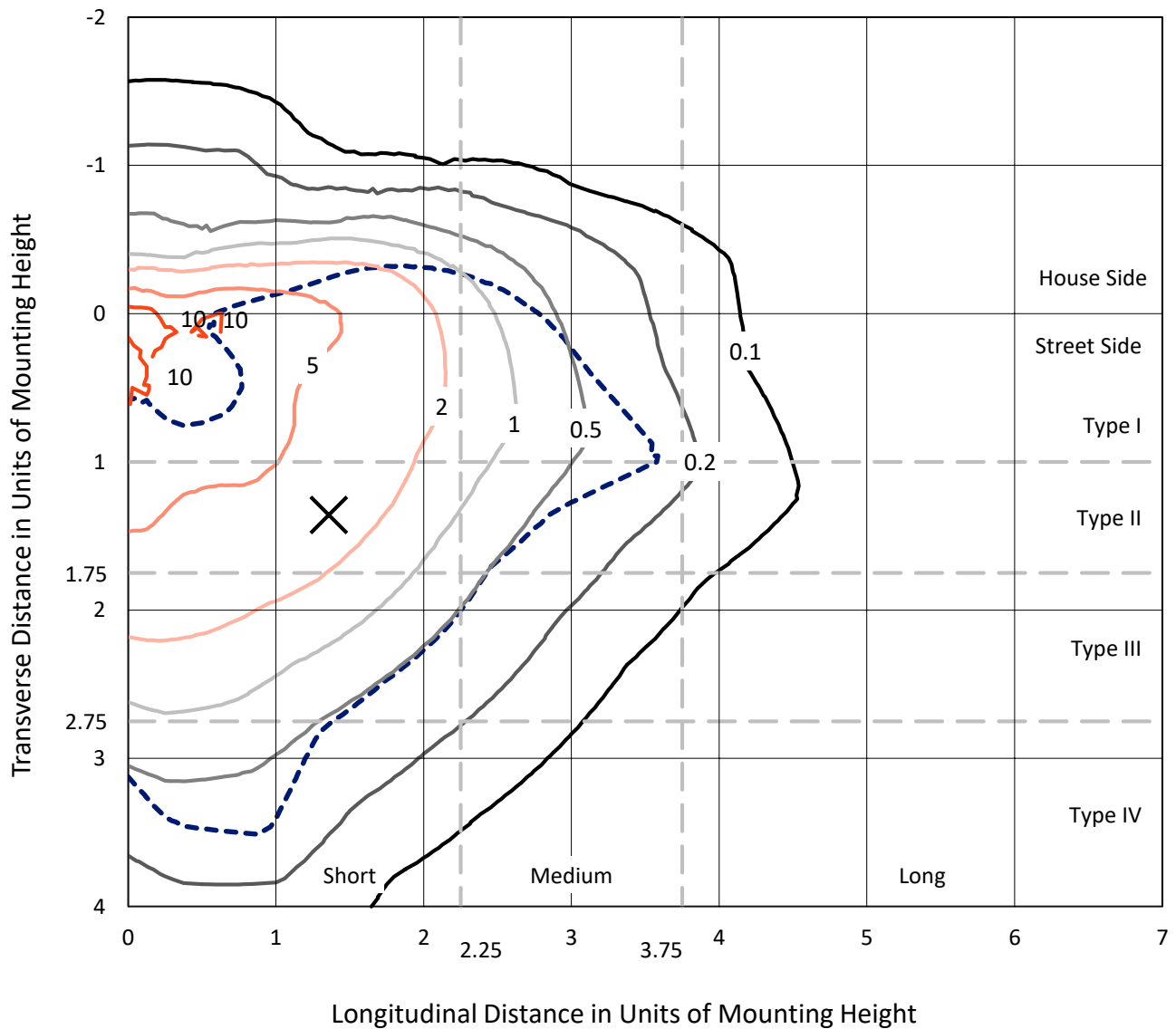
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

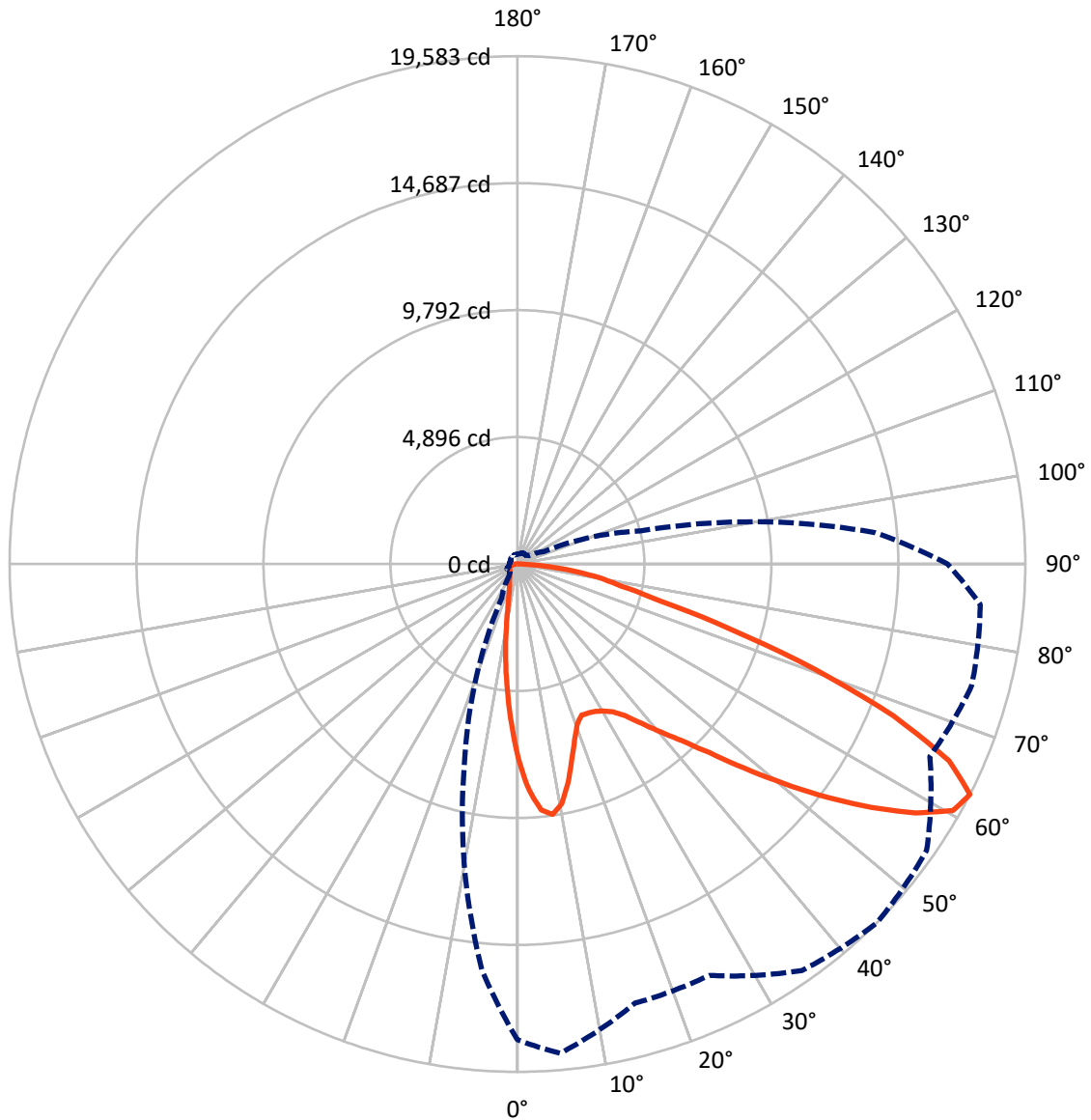
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3730.1	0.0	3730.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	18809.9	0.0	18809.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	22540.0	0.0	22540.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	554.4	2.5
10°-20°	1016.5	4.5
20°-30°	1482.1	6.6
30°-40°	2282.7	10.1
40°-50°	3359.5	14.9
50°-60°	4927.6	21.9
60°-70°	5508.4	24.4
70°-80°	2696.8	12.0
80°-90°	712.0	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°	22540.0	100.0
0°-180°	22540.0	100.0

**Coefficient of Utilization**



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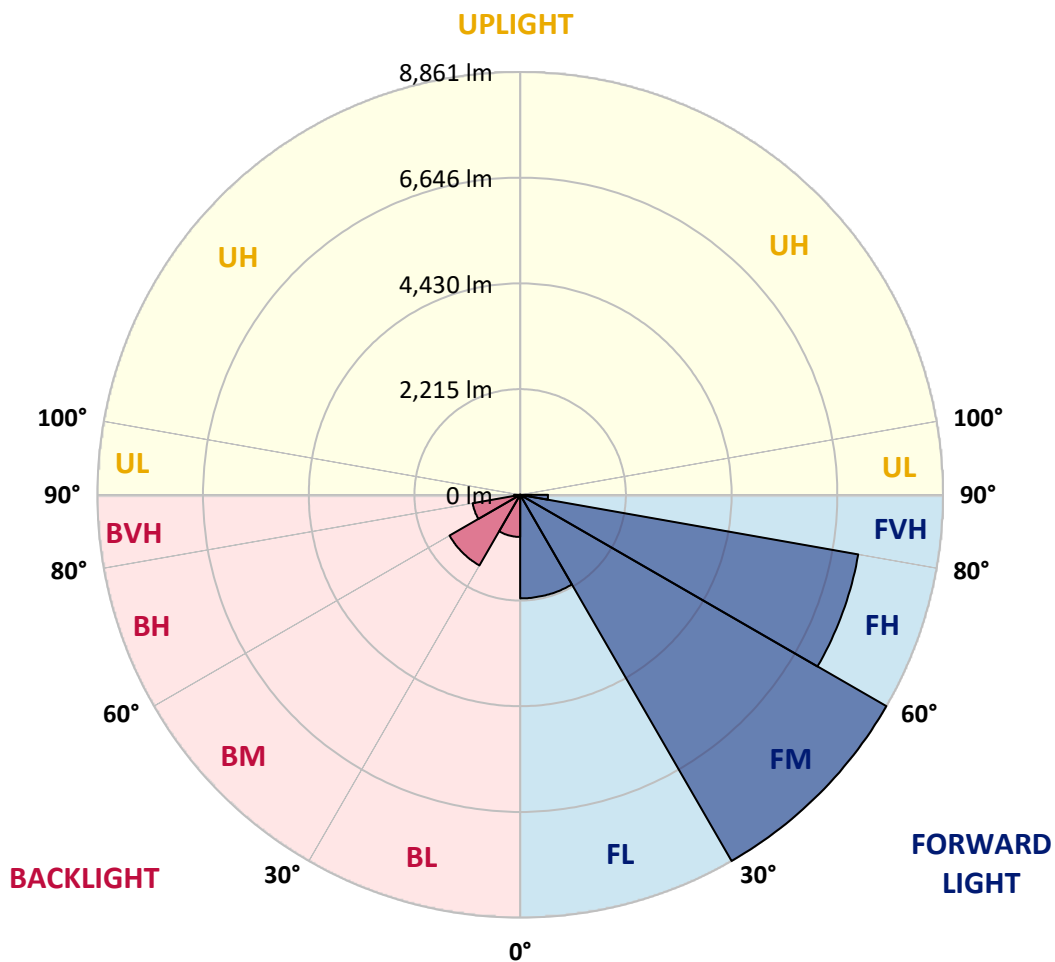
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-8030-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2170.5	9.6			
FM	(30°-60°)	8860.7	39.3			
FH	(60°-80°)	7194.0	31.9			G3/7500
FVH	(80°-90°)	584.7	2.6			G4/750
BL	(0°-30°)	882.5	3.9	B2/1000		
BM	(30°-60°)	1709.1	7.6	B2/2500		
BH	(60°-80°)	1011.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	127.3	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°	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2
2.5°	7912.6	8039.0	8285.6	8470.2	8694.4	8746.5	8818.3	8747.7	8622.6	8456.5	8402.0
5°	7440.5	7710.6	8309.1	8835.7	9304.1	9522.1	9582.8	9403.2	9040.1	8563.1	8271.9
7.5°	6683.5	7067.6	7877.9	8653.6	9343.7	9751.4	9741.4	9323.9	8656.0	7879.1	7412.0
10°	6030.5	6469.1	7398.4	8265.7	8998.0	9393.3	9240.9	8706.8	7910.1	7015.5	6508.8
12.5°	5665.0	6094.9	7037.8	7908.9	8521.0	8657.3	8540.8	8017.9	7267.1	6362.5	5919.0
15°	5601.8	6073.8	6894.1	7602.8	7946.1	7827.1	7688.3	7454.1	6923.8	6151.9	5689.7
17.5°	5875.6	6396.0	7058.9	7389.7	7331.5	7124.6	7084.9	7110.9	6983.3	6386.1	5853.3
20°	6401.0	7025.4	7451.7	7289.4	6864.4	6579.4	6589.3	6987.0	7364.9	6979.6	6371.2
22.5°	7138.2	7850.6	8017.9	7342.6	6667.3	6329.1	6410.9	7055.2	7973.3	7846.9	7070.0
25°	8092.3	8741.5	8621.3	7535.9	6687.2	6360.1	6425.7	7290.6	8692.0	8714.3	7934.9
27.5°	9016.6	9618.8	9128.1	7792.4	6769.0	6433.2	6519.9	7661.1	9378.4	9655.9	8923.7
30°	9737.7	10156.5	9328.8	8026.6	6930.0	6575.7	6683.5	8013.0	9690.6	10291.6	9684.4
32.5°	10334.9	10636.0	9648.5	8316.5	7226.2	6799.9	6989.5	8440.4	10140.4	10896.2	10429.1
35°	11098.2	11183.7	10046.3	8639.9	7683.4	7190.2	7425.7	8859.2	10569.1	11507.1	11162.6
37.5°	11992.8	11882.5	10421.7	9082.3	8274.4	7801.1	7995.6	9318.9	10922.3	12199.7	11912.3
40°	12877.5	12612.3	10892.5	9768.7	9136.8	8521.0	8751.4	9809.6	11251.8	12893.6	12644.5
42.5°	13629.6	13236.8	11357.2	10523.3	9939.7	9315.2	9590.3	10304.0	11566.6	13485.9	13280.2
45°	14185.9	13697.7	11799.5	11248.1	11046.2	10370.9	10501.0	10870.2	11907.3	13980.2	13803.1
47.5°	14682.8	14161.1	12300.1	11979.2	12013.9	11743.8	11534.4	11529.4	12308.8	14384.2	14297.4
50°	15348.2	14804.2	12837.8	12732.5	13466.0	13286.4	12824.2	12298.9	12816.8	14842.6	14832.7
52.5°	16265.1	15822.7	13494.5	13544.1	14821.6	14939.3	14366.8	13223.2	13612.2	15683.9	15624.5
55°	17349.2	17091.5	14389.1	14477.1	16484.4	16568.6	15999.9	14379.2	14781.9	16901.9	16737.1
57.5°	18195.5	18141.0	15370.5	15597.2	17725.9	18105.1	17582.2	15717.4	16100.3	17927.9	17514.0
60°	18532.5	18796.4	16415.0	16727.2	18874.5	19294.5	18836.1	16893.3	17268.7	18352.9	17460.7
62.5°	18350.4	18940.2	17527.7	17501.6	19131.0	19583.2	19261.1	17547.5	18134.8	17914.2	16577.3
65°	17509.1	18423.5	18173.2	17302.2	18253.7	18290.9	18186.8	17255.1	18339.2	16527.7	14869.9
67.5°	15676.5	16992.4	17323.2	15592.3	15887.2	15645.5	15470.8	15654.2	17273.7	14449.8	12497.1
70°	12768.5	14748.5	14907.1	12471.1	12337.3	12174.9	11826.8	12834.1	15171.0	11842.9	9916.1
72.5°	9388.3	11469.9	11956.9	9146.7	8527.2	8560.6	8285.6	9672.1	12334.8	8797.3	7403.3
75°	6423.3	8305.4	9354.9	6382.4	5638.9	5652.6	5617.9	6853.2	9824.5	6119.7	5539.8
77.5°	4692.3	5933.8	7055.2	4290.8	4165.7	4088.9	4070.3	4795.1	7532.2	4443.2	4302.0
80°	3765.5	4383.8	4739.4	2973.7	3198.0	3191.8	3089.0	3297.1	4919.0	3250.0	3217.8
82.5°	2611.9	3369.0	3839.8	2330.7	2158.4	2122.5	2147.3	2455.8	3476.8	2221.6	2112.6
85°	1377.8	2237.7	3802.7	2065.5	1281.2	1022.2	1271.3	2011.0	3012.1	1177.1	1030.9
87.5°	175.9	646.8	2517.8	824.0	505.5	272.6	603.4	1132.5	1934.2	240.4	209.4
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°	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2
2.5°	8262.0	8097.2	7881.6	7682.1	7475.2	7269.5	7000.7	6832.1	6715.7	6693.4	6643.8
5°	8061.3	7513.6	7099.8	6741.7	6417.1	5958.6	5704.6	5494.0	5381.2	5370.1	5342.8
7.5°	7135.7	6379.9	5821.1	5314.3	4854.6	4484.1	4075.2	3884.4	3806.4	3825.0	3843.5
10°	6173.0	5327.9	4686.1	4168.2	3763.0	3450.8	3122.4	2900.6	2747.0	2716.0	2709.8
12.5°	5469.2	4542.4	3919.1	3553.6	3240.1	2946.5	2598.3	2336.9	2137.4	2069.2	2023.4
15°	5171.8	4158.3	3505.3	3111.3	2765.6	2392.6	2069.2	1795.4	1612.0	1552.5	1519.1
17.5°	5235.0	4051.7	3220.3	2716.0	2273.7	1884.6	1477.0	1242.8	1132.5	1104.0	1104.0
20°	5567.1	4031.9	2984.9	2351.7	1800.3	1349.3	1014.8	881.0	845.0	841.3	851.2
22.5°	6033.0	4101.3	2808.9	2035.8	1398.9	985.0	790.5	741.0	724.8	728.6	739.7
25°	6726.8	4335.5	2681.3	1754.5	1097.8	806.6	705.0	675.3	667.9	677.8	691.4
27.5°	7549.6	4569.6	2602.0	1542.6	926.8	737.2	670.3	639.4	644.3	656.7	669.1
30°	8271.9	4761.7	2476.9	1391.5	873.5	741.0	670.3	628.2	623.2	625.7	629.4
32.5°	8920.0	4891.8	2330.7	1247.7	753.3	657.9	625.7	619.5	592.3	582.4	583.6
35°	9478.8	4891.8	2242.7	1163.5	675.3	583.6	531.6	500.6	486.9	488.2	501.8
37.5°	10017.8	4793.9	2199.3	1116.4	633.2	555.1	509.3	482.0	463.4	459.7	462.2
40°	10493.5	4651.4	2149.8	1096.6	600.9	537.7	494.4	472.1	452.3	446.1	447.3
42.5°	10875.2	4536.2	2095.2	1070.5	581.1	525.4	484.5	464.6	442.3	436.1	434.9
45°	11287.8	4497.8	2023.4	1018.5	591.0	526.6	482.0	460.9	438.6	431.2	428.7
47.5°	11831.7	4618.0	1949.0	956.5	612.1	532.8	485.7	460.9	437.4	431.2	428.7
50°	12516.9	4900.5	1854.9	866.1	591.0	550.1	484.5	457.2	437.4	431.2	426.2
52.5°	13396.7	5282.1	1731.0	762.0	578.6	592.3	482.0	449.8	431.2	422.5	413.8
55°	14466.0	5594.3	1583.5	676.5	550.1	581.1	478.3	441.1	421.3	408.9	401.5
57.5°	15249.0	5707.1	1393.9	620.8	510.5	562.5	473.3	430.0	408.9	399.0	389.1
60°	15094.2	5489.0	1234.1	586.1	486.9	508.0	469.6	420.0	397.7	390.3	381.6
62.5°	13853.9	4919.0	1131.3	570.0	472.1	463.4	473.3	410.1	387.8	380.4	377.9
65°	11994.0	4077.7	1090.4	566.2	459.7	437.4	439.9	399.0	376.7	370.5	368.0
67.5°	9893.8	3290.9	1054.4	578.6	443.6	418.8	406.4	384.1	365.5	359.3	354.4
70°	7802.3	2737.1	1038.3	571.2	423.8	400.2	386.6	368.0	351.9	345.7	342.0
72.5°	6283.2	2312.1	1029.7	563.8	397.7	375.4	363.0	346.9	329.6	327.1	323.4
75°	5316.8	1817.7	942.9	540.2	368.0	345.7	337.0	322.2	304.8	304.8	302.3
77.5°	4101.3	1314.6	784.3	478.3	337.0	312.2	304.8	293.7	273.8	277.5	276.3
80°	3029.5	857.4	613.3	396.5	298.6	275.1	271.4	260.2	239.1	244.1	244.1
82.5°	2075.4	562.5	441.1	324.6	255.2	232.9	232.9	221.8	198.2	200.7	208.2
85°	1042.0	386.6	329.6	251.5	198.2	187.1	187.1	178.4	154.9	156.1	166.0
87.5°	317.2	232.9	218.1	179.7	142.5	140.0	133.8	127.6	112.8	111.5	117.7
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2
2.5°	6568.2	6497.6	6412.1	6223.8	6160.6	6156.9	6213.9	6154.4	6268.4	6220.1	6273.3
5°	5297.0	5227.6	5132.2	4891.8	4745.6	4646.5	4599.4	4460.6	4561.0	4487.9	4548.6
7.5°	3895.6	3911.7	3848.5	3707.2	3388.8	3229.0	3134.8	3050.6	3123.7	3116.2	3232.7
10°	2738.3	2781.7	2737.1	2594.6	2336.9	2248.9	2266.2	2299.7	2395.1	2444.7	2624.3
12.5°	1971.3	1968.9	1940.4	1812.7	1643.0	1652.9	1723.5	1781.8	1869.7	1921.8	2105.2
15°	1472.0	1449.7	1437.3	1333.2	1236.6	1257.6	1292.3	1298.5	1354.3	1385.3	1533.9
17.5°	1112.7	1123.8	1137.5	1063.1	990.0	976.4	949.1	915.7	931.8	938.0	1012.3
20°	883.4	928.1	961.5	909.5	835.1	795.5	760.8	738.5	738.5	737.2	758.3
22.5°	771.9	804.1	840.1	804.1	737.2	702.5	682.7	665.4	662.9	662.9	682.7
25°	711.2	734.8	769.5	744.7	695.1	669.1	650.5	628.2	619.5	617.0	630.7
27.5°	681.5	691.4	708.7	686.4	644.3	631.9	627.0	607.1	596.0	589.8	603.4
30°	630.7	628.2	629.4	607.1	573.7	572.4	581.1	584.8	581.1	579.9	600.9
32.5°	583.6	578.6	577.4	557.6	526.6	519.2	526.6	534.0	542.7	555.1	579.9
35°	524.1	536.5	543.9	526.6	489.4	467.1	458.4	444.8	437.4	437.4	465.9
37.5°	477.0	505.5	516.7	500.6	459.7	428.7	413.8	411.4	412.6	417.6	444.8
40°	460.9	482.0	491.9	475.8	434.9	406.4	397.7	395.3	397.7	405.2	432.4
42.5°	451.0	465.9	464.6	444.8	411.4	391.5	386.6	384.1	386.6	394.0	423.8
45°	442.3	452.3	442.3	418.8	387.8	377.9	379.2	377.9	380.4	387.8	416.3
47.5°	434.9	438.6	426.2	402.7	370.5	368.0	373.0	376.7	379.2	385.3	415.1
50°	423.8	423.8	412.6	387.8	355.6	356.8	363.0	371.7	373.0	380.4	403.9
52.5°	410.1	408.9	401.5	377.9	343.2	346.9	346.9	356.8	359.3	368.0	392.8
55°	399.0	396.5	392.8	370.5	332.1	338.3	334.5	338.3	344.5	353.1	380.4
57.5°	389.1	384.1	384.1	364.3	323.4	325.9	317.2	322.2	329.6	337.0	365.5
60°	379.2	374.2	376.7	355.6	309.8	307.3	303.6	313.5	316.0	324.6	353.1
62.5°	368.0	364.3	365.5	345.7	299.9	293.7	293.7	302.3	303.6	316.0	343.2
65°	359.3	354.4	353.1	335.8	288.7	281.3	285.0	288.7	291.2	303.6	329.6
67.5°	350.7	340.7	340.7	327.1	276.3	268.9	276.3	275.1	278.8	289.9	311.0
70°	339.5	325.9	327.1	320.9	263.9	255.2	261.4	260.2	262.7	270.1	291.2
72.5°	322.2	311.0	313.5	311.0	251.5	239.1	241.6	241.6	241.6	247.8	270.1
75°	299.9	291.2	298.6	304.8	236.7	219.3	221.8	221.8	218.1	221.8	249.0
77.5°	272.6	267.6	292.4	283.7	219.3	198.2	198.2	195.8	188.3	193.3	223.0
80°	242.9	239.1	270.1	237.9	199.5	172.2	169.8	163.6	156.1	159.8	189.6
82.5°	211.9	208.2	226.7	182.1	172.2	142.5	136.3	125.1	117.7	121.4	148.7
85°	173.5	173.5	174.7	137.5	131.3	109.0	101.6	86.7	78.1	80.5	106.6
87.5°	123.9	127.6	117.7	94.2	78.1	60.7	55.8	47.1	39.6	45.8	55.8
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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CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-8030-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2
2.5°	6545.9	6682.2	6837.1	7035.3	7205.1	7483.9	7751.5	7912.6
5°	4894.3	5121.0	5403.5	5766.6	6104.8	6612.8	7117.1	7440.5
7.5°	3502.8	3745.7	4050.5	4504.0	4982.2	5630.3	6296.9	6683.5
10°	2898.1	3147.2	3403.7	3709.7	4101.3	4806.3	5594.3	6030.5
12.5°	2397.6	2664.0	2940.3	3262.4	3625.5	4254.9	5163.1	5665.0
15°	1835.0	2132.4	2458.3	2865.9	3320.7	4048.0	5056.6	5601.8
17.5°	1257.6	1589.7	1989.9	2493.0	3049.3	3981.1	5247.4	5875.6
20°	866.1	1107.7	1535.2	2125.0	2794.1	3972.4	5614.2	6401.0
22.5°	724.8	832.6	1144.9	1786.7	2602.0	4079.0	6182.9	7138.2
25°	670.3	734.8	914.4	1493.1	2462.0	4324.3	6966.0	8092.3
27.5°	638.1	696.3	830.2	1301.0	2351.7	4609.3	7728.0	9016.6
30°	650.5	710.0	806.6	1203.1	2201.8	4847.2	8404.5	9737.7
32.5°	586.1	612.1	691.4	1116.4	2094.0	5046.7	8996.8	10334.9
35°	499.3	545.2	617.0	1075.5	2096.5	5180.5	9642.3	11098.2
37.5°	475.8	521.6	573.7	1060.6	2125.0	5323.0	10383.3	11992.8
40°	460.9	503.1	547.7	1052.0	2152.2	5453.1	11109.4	12877.5
42.5°	451.0	489.4	545.2	1022.2	2165.9	5569.5	11706.6	13629.6
45°	449.8	489.4	555.1	992.5	2186.9	5694.7	12207.2	14185.9
47.5°	451.0	505.5	536.5	956.5	2186.9	5904.1	12794.5	14682.8
50°	446.1	532.8	516.7	905.7	2136.1	6300.6	13599.9	15348.2
52.5°	443.6	529.1	478.3	827.7	2048.2	6930.0	14632.0	16265.1
55°	437.4	510.5	451.0	711.2	1945.3	7616.5	15737.2	17349.2
57.5°	431.2	452.3	436.1	609.6	1786.7	8099.7	16498.0	18195.5
60°	483.2	395.3	423.8	560.1	1574.8	8232.3	16468.3	18532.5
62.5°	447.3	370.5	407.6	548.9	1426.2	7860.6	15707.5	18350.4
65°	350.7	354.4	391.5	581.1	1386.5	6875.5	14359.4	17509.1
67.5°	320.9	338.3	375.4	622.0	1390.2	5505.1	12344.7	15676.5
70°	302.3	320.9	356.8	643.1	1400.1	4103.7	9760.0	12768.5
72.5°	281.3	297.4	335.8	646.8	1335.7	2981.2	7522.3	9388.3
75°	256.5	271.4	306.0	563.8	1106.5	2068.0	5754.2	6423.3
77.5°	228.0	239.1	268.9	434.9	821.5	1323.3	4319.3	4692.3
80°	194.5	200.7	225.5	318.4	562.5	827.7	3417.3	3765.5
82.5°	156.1	158.6	174.7	239.1	365.5	531.6	2288.5	2611.9
85°	110.3	110.3	120.2	173.5	249.0	337.0	1242.8	1377.8
87.5°	52.0	53.3	53.3	95.4	130.1	171.0	286.2	175.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)