

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: P269650

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269650  
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-SLL-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 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

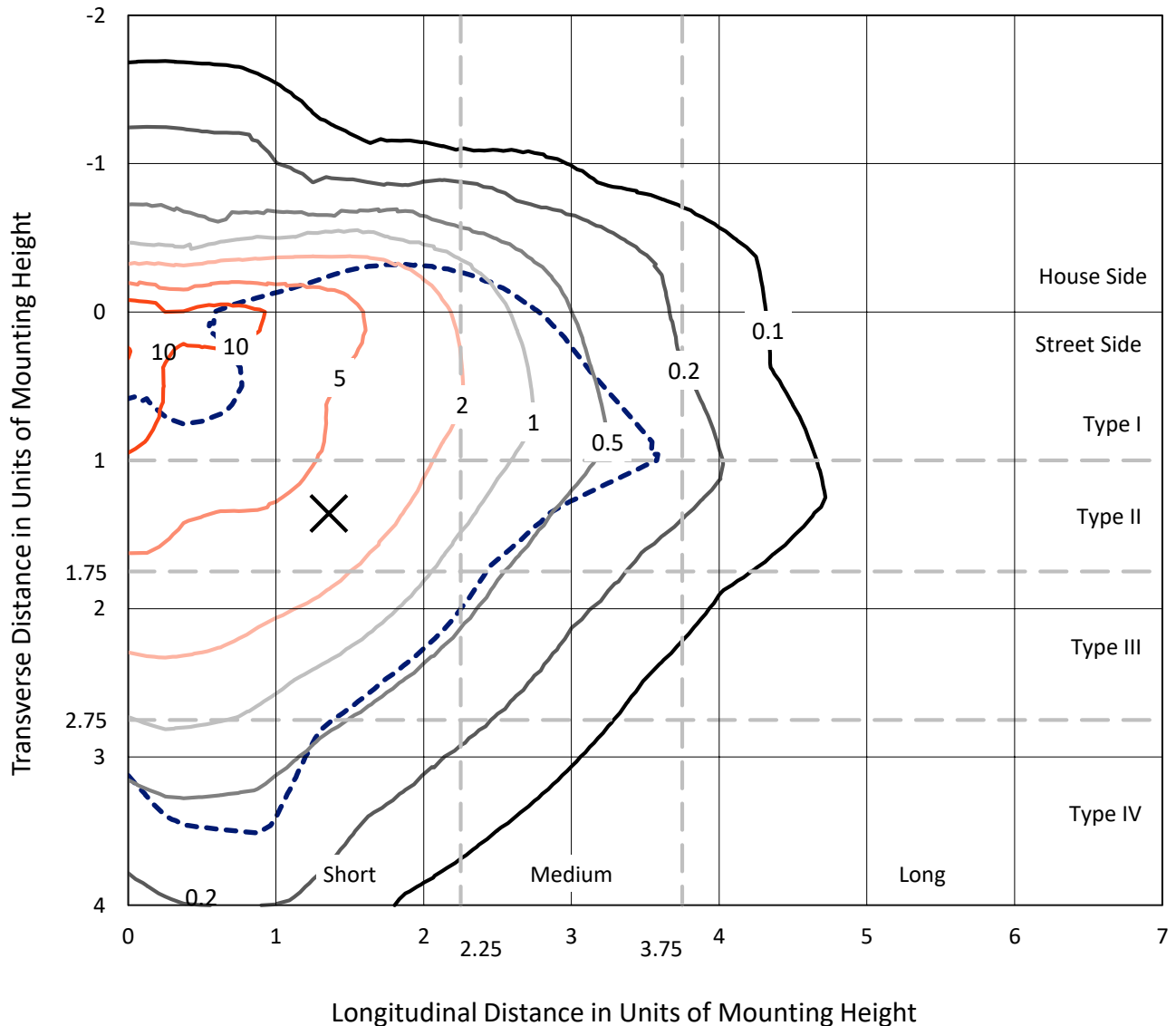
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

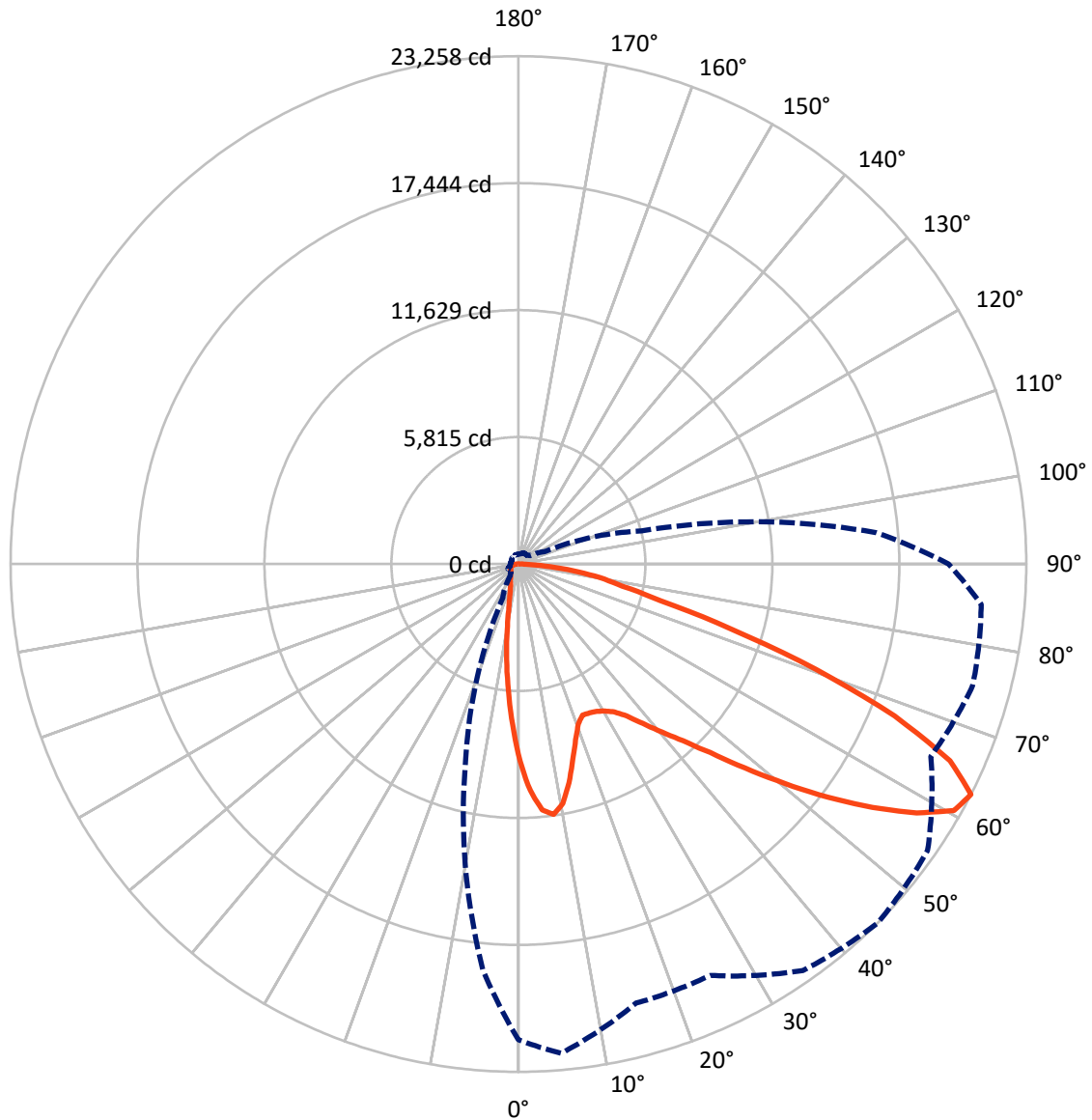
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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	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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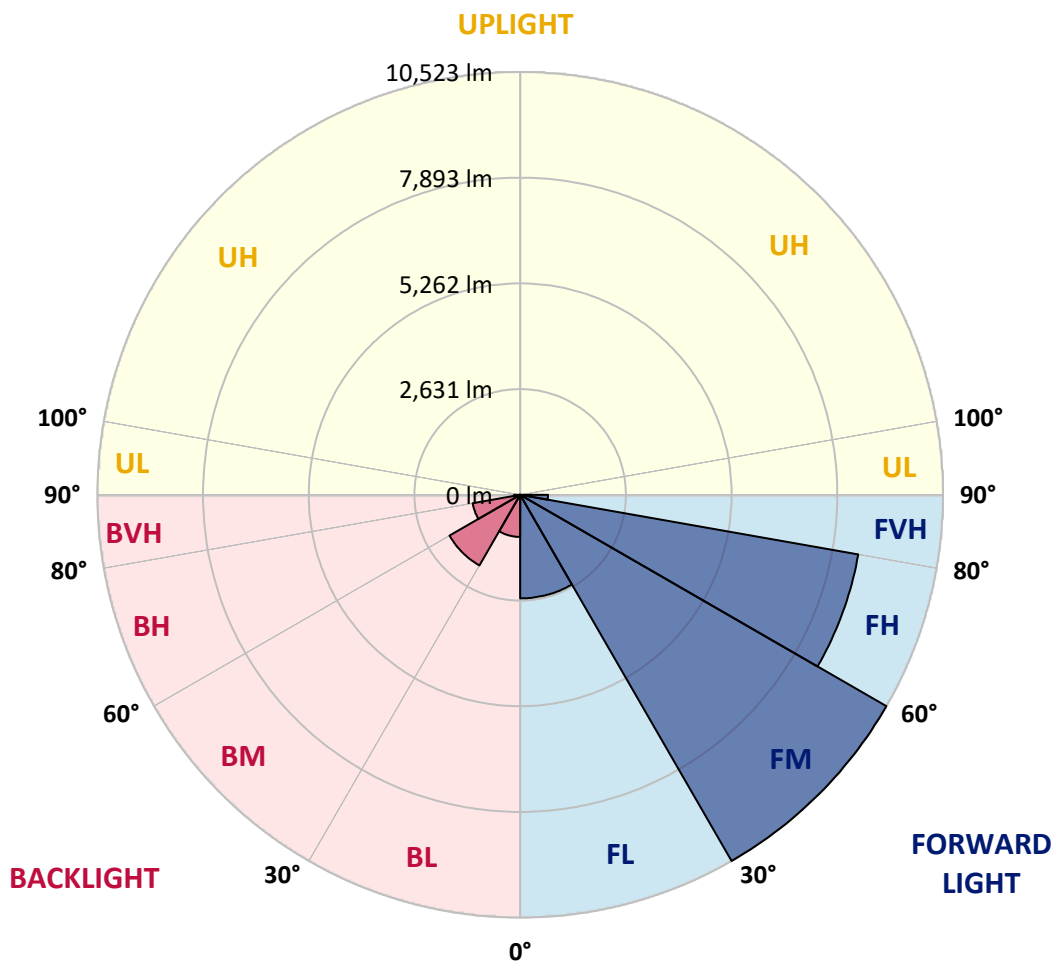
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

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	9547.5	9840.5	10059.7	10326.0	10387.9	10473.2	10389.3	10240.7	10043.5	9978.7
5°	8836.8	9157.6	9868.4	10493.8	11050.1	11309.1	11381.2	11167.8	10736.6	10170.2	9824.3
7.5°	7937.8	8393.9	9356.2	10277.5	11097.1	11581.3	11569.5	11073.6	10280.5	9357.7	8803.0
10°	7162.1	7683.2	8786.9	9816.9	10686.5	11156.1	10975.0	10340.7	9394.6	8332.0	7730.3
12.5°	6728.0	7238.7	8358.5	9393.0	10120.0	10281.9	10143.7	9522.7	8630.7	7556.5	7029.7
15°	6652.9	7213.7	8187.8	9029.7	9437.2	9296.0	9131.1	8852.9	8223.2	7306.4	6757.5
17.5°	6978.3	7596.2	8383.6	8776.5	8707.4	8461.6	8414.5	8445.3	8293.8	7584.5	6951.8
20°	7602.1	8343.8	8850.1	8657.2	8152.6	7814.0	7825.9	8298.3	8747.1	8289.4	7566.9
22.5°	8477.8	9323.9	9522.7	8720.6	7918.6	7516.7	7613.9	8379.2	9469.7	9319.5	8396.8
25°	9610.8	10382.0	10239.2	8950.2	7942.2	7553.6	7631.6	8658.8	10323.1	10349.6	9423.9
27.5°	10708.6	11423.8	10841.1	9254.8	8039.2	7640.4	7743.4	9098.8	11138.4	11468.0	10598.4
30°	11565.0	12062.5	11079.5	9532.9	8230.5	7809.7	7937.8	9516.7	11509.3	12222.9	11501.9
32.5°	12274.4	12632.1	11459.1	9877.3	8582.2	8076.0	8301.1	10024.4	12043.3	12941.1	12386.3
35°	13180.9	13282.5	11931.6	10261.2	9125.3	8539.6	8819.2	10521.8	12552.6	13666.5	13257.5
37.5°	14243.3	14112.5	12377.4	10786.7	9827.2	9265.1	9496.2	11067.7	12972.0	14489.1	14147.8
40°	15294.2	14979.1	12936.6	11601.9	10851.4	10120.0	10393.7	11650.5	13363.4	15313.2	15017.4
42.5°	16187.4	15720.9	13488.5	12498.1	11804.9	11063.3	11390.0	12237.6	13737.2	16016.7	15772.4
45°	16848.2	16268.2	14013.7	13359.0	13119.0	12317.1	12471.6	12910.1	14141.8	16603.8	16393.3
47.5°	17438.2	16818.6	14608.3	14227.3	14268.4	13947.7	13699.0	13693.0	14618.7	17083.5	16980.5
50°	18228.4	17582.4	15247.0	15122.0	15993.2	15779.7	15230.9	14606.9	15222.0	17628.0	17616.2
52.5°	19317.4	18792.1	16026.9	16085.8	17602.9	17742.9	17062.9	15704.7	16166.7	18627.3	18556.6
55°	20605.1	20298.9	17089.4	17193.9	19577.9	19677.9	19002.4	17077.7	17555.9	20073.7	19878.1
57.5°	21610.2	21545.4	18254.9	18524.2	21052.4	21502.6	20881.7	18667.0	19121.7	21292.3	20800.8
60°	22010.5	22323.8	19495.5	19866.2	22416.6	22915.5	22370.9	20063.5	20509.4	21797.1	20737.5
62.5°	21794.0	22494.5	20817.0	20786.1	22721.2	23258.2	22875.7	20840.5	21538.0	21276.0	19688.2
65°	20794.9	21880.8	21583.7	20549.1	21679.2	21723.4	21599.8	20493.3	21780.8	19629.4	17660.4
67.5°	18618.5	20181.2	20574.2	18518.3	18868.5	18581.6	18374.1	18592.0	20515.2	17161.5	14842.3
70°	15164.6	17516.2	17704.5	14811.4	14652.6	14459.7	14046.2	15242.6	18018.1	14065.3	11777.0
72.5°	11150.1	13622.3	14200.8	10863.3	10127.4	10167.1	9840.5	11487.2	14649.6	10448.1	8792.7
75°	7628.6	9864.0	11110.3	7580.1	6697.1	6713.4	6672.2	8139.4	11668.2	7268.1	6579.5
77.5°	5572.8	7047.5	8379.2	5096.1	4947.4	4856.1	4834.0	5695.1	8945.7	5277.1	5109.3
80°	4472.1	5206.4	5628.8	3531.7	3798.2	3790.8	3668.7	3915.9	5842.1	3859.9	3821.7
82.5°	3102.0	4001.2	4560.4	2768.0	2563.6	2520.9	2550.3	2916.6	4129.2	2638.5	2509.1
85°	1636.4	2657.6	4516.3	2453.1	1521.5	1214.1	1509.8	2388.4	3577.4	1398.0	1224.4
87.5°	208.9	768.2	2990.3	978.7	600.3	323.7	716.7	1345.0	2297.1	285.5	248.7
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°	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3
2.5°	9812.5	9616.7	9360.7	9123.7	8877.9	8633.7	8314.4	8114.3	7976.0	7949.6	7890.6
5°	9574.0	8923.7	8432.1	8006.9	7621.3	7076.8	6775.1	6525.0	6391.0	6377.8	6345.4
7.5°	8474.8	7577.2	6913.4	6311.6	5765.6	5325.6	4840.0	4613.3	4520.7	4542.8	4564.8
10°	7331.3	6327.8	5565.4	4950.4	4469.2	4098.3	3708.4	3445.0	3262.5	3225.8	3218.4
12.5°	6495.6	5394.9	4654.6	4220.4	3848.2	3499.3	3085.9	2775.5	2538.5	2457.6	2403.1
15°	6142.4	4938.6	4163.0	3695.2	3284.6	2841.6	2457.6	2132.2	1914.5	1844.0	1804.2
17.5°	6217.3	4812.1	3824.7	3225.8	2700.3	2238.2	1754.1	1475.9	1345.0	1311.2	1311.2
20°	6611.7	4788.5	3545.0	2793.1	2138.1	1602.5	1205.3	1046.3	1003.6	999.3	1011.0
22.5°	7165.2	4870.9	3336.0	2417.8	1661.4	1170.0	938.9	880.0	860.8	865.2	878.5
25°	7989.2	5149.1	3184.5	2083.8	1303.8	958.0	837.3	801.9	793.2	804.9	821.1
27.5°	8966.3	5427.2	3090.3	1832.2	1100.8	875.6	796.1	759.3	765.3	780.0	794.6
30°	9824.3	5655.3	2941.7	1652.6	1037.5	880.0	796.1	746.1	740.3	743.2	747.6
32.5°	10593.9	5809.8	2768.0	1481.8	894.7	781.4	743.2	735.8	703.5	691.6	693.1
35°	11257.6	5809.8	2663.6	1381.9	801.9	693.1	631.2	594.5	578.2	579.8	595.9
37.5°	11897.7	5693.5	2612.0	1325.9	752.1	659.3	604.7	572.4	550.4	546.0	549.0
40°	12462.7	5524.2	2553.3	1302.4	713.8	638.6	587.1	560.6	537.1	529.8	531.3
42.5°	12916.0	5387.4	2488.5	1271.5	690.2	624.0	575.4	551.9	525.4	518.1	516.5
45°	13406.0	5341.9	2403.1	1209.7	701.9	625.4	572.4	547.4	520.9	512.2	509.2
47.5°	14052.0	5484.6	2314.8	1136.0	727.0	632.8	576.8	547.4	519.5	512.2	509.2
50°	14866.0	5820.1	2203.0	1028.6	701.9	653.3	575.4	543.0	519.5	512.2	506.3
52.5°	15910.7	6273.4	2055.9	905.0	687.3	703.5	572.4	534.2	512.2	501.9	491.6
55°	17180.7	6644.1	1880.7	803.4	653.3	690.2	568.0	523.9	500.4	485.7	476.8
57.5°	18110.6	6778.2	1655.5	737.2	606.3	668.1	562.1	510.6	485.7	473.9	462.1
60°	17926.8	6519.1	1465.7	696.0	578.2	603.3	557.8	498.9	472.4	463.5	453.3
62.5°	16453.7	5842.1	1343.5	677.0	560.6	550.4	562.1	487.2	460.7	451.8	448.9
65°	14244.9	4842.9	1294.9	672.6	546.0	519.5	522.5	473.9	447.4	440.0	437.0
67.5°	11750.5	3908.5	1252.2	687.3	526.9	497.4	482.7	456.2	434.2	426.8	420.9
70°	9266.6	3250.6	1233.2	678.4	503.3	475.4	459.2	437.0	417.9	410.5	406.2
72.5°	7462.4	2745.9	1223.0	669.5	472.4	445.9	431.1	412.1	391.4	388.4	384.0
75°	6314.5	2158.7	1119.8	641.6	437.0	410.5	400.3	382.6	361.9	361.9	359.1
77.5°	4870.9	1561.3	931.5	568.0	400.3	370.8	361.9	348.7	325.2	329.7	328.2
80°	3598.0	1018.3	728.4	470.9	354.7	326.8	322.3	309.0	284.0	290.0	290.0
82.5°	2464.9	668.1	523.9	385.6	303.2	276.7	276.7	263.5	235.4	238.4	247.3
85°	1237.5	459.2	391.4	298.7	235.4	222.2	222.2	211.9	184.0	185.4	197.2
87.5°	376.7	276.7	259.0	213.3	169.2	166.2	158.9	151.5	133.8	132.4	139.7
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°	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3	9044.3
2.5°	7800.8	7717.0	7615.4	7391.8	7316.6	7312.3	7379.9	7309.2	7444.8	7387.3	7450.6
5°	6291.0	6208.5	6095.3	5809.8	5636.1	5518.4	5462.6	5297.7	5416.9	5330.1	5402.1
7.5°	4626.6	4645.8	4570.8	4403.0	4024.8	3835.0	3723.0	3623.0	3709.8	3700.9	3839.4
10°	3252.1	3303.6	3250.6	3081.5	2775.5	2670.9	2691.5	2731.2	2844.6	2903.4	3116.8
12.5°	2341.3	2338.4	2304.5	2152.9	1951.3	1963.1	2047.0	2116.1	2220.6	2282.5	2500.3
15°	1748.2	1721.7	1707.0	1583.4	1468.5	1493.6	1534.8	1542.2	1608.4	1645.2	1821.9
17.5°	1321.4	1334.7	1351.0	1262.6	1175.8	1159.6	1127.3	1087.5	1106.6	1114.0	1202.3
20°	1049.2	1102.2	1141.9	1080.1	991.9	944.7	903.5	877.0	877.0	875.6	900.6
22.5°	916.8	955.1	997.7	955.1	875.6	834.3	810.8	790.1	787.3	787.3	810.8
25°	844.6	872.7	913.8	884.4	825.5	794.6	772.6	746.1	735.8	732.8	749.0
27.5°	809.4	821.1	841.7	815.2	765.3	750.5	744.7	721.1	707.9	700.5	716.7
30°	749.0	746.1	747.6	721.1	681.4	679.8	690.2	694.6	690.2	688.7	713.8
32.5°	693.1	687.3	685.8	662.2	625.4	616.5	625.4	634.3	644.5	659.3	688.7
35°	622.4	637.2	646.1	625.4	581.3	554.9	544.6	528.4	519.5	519.5	553.4
37.5°	566.6	600.3	613.6	594.5	546.0	509.2	491.6	488.6	490.0	496.0	528.4
40°	547.4	572.4	584.2	565.0	516.5	482.7	472.4	469.5	472.4	481.2	513.7
42.5°	535.7	553.4	551.9	528.4	488.6	465.1	459.2	456.2	459.2	467.9	503.3
45°	525.4	537.1	525.4	497.4	460.7	448.9	450.3	448.9	451.8	460.7	494.4
47.5°	516.5	520.9	506.3	478.3	440.0	437.0	443.0	447.4	450.3	457.6	493.0
50°	503.3	503.3	490.0	460.7	422.4	423.8	431.1	441.4	443.0	451.8	479.8
52.5°	487.2	485.7	476.8	448.9	407.7	412.1	412.1	423.8	426.8	437.0	466.5
55°	473.9	470.9	466.5	440.0	394.4	401.7	397.3	401.7	409.1	419.4	451.8
57.5°	462.1	456.2	456.2	432.7	384.0	387.0	376.7	382.6	391.4	400.3	434.2
60°	450.3	444.4	447.4	422.4	367.9	364.9	360.5	372.3	375.2	385.6	419.4
62.5°	437.0	432.7	434.2	410.5	356.1	348.7	348.7	359.1	360.5	375.2	407.7
65°	426.8	420.9	419.4	398.8	342.9	334.1	338.4	342.9	345.8	360.5	391.4
67.5°	416.5	404.6	404.6	388.4	328.2	319.3	328.2	326.8	331.1	344.3	369.4
70°	403.2	387.0	388.4	381.2	313.5	303.2	310.5	309.0	312.0	320.9	345.8
72.5°	382.6	369.4	372.3	369.4	298.7	284.0	287.0	287.0	287.0	294.4	320.9
75°	356.1	345.8	354.7	361.9	281.1	260.5	263.5	263.5	259.0	263.5	295.8
77.5°	323.7	317.9	347.3	337.0	260.5	235.4	235.4	232.5	223.7	229.5	264.9
80°	288.4	284.0	320.9	282.5	237.0	204.5	201.6	194.3	185.4	189.8	225.1
82.5°	251.6	247.3	269.3	216.3	204.5	169.2	161.9	148.6	139.7	144.2	176.5
85°	206.0	206.0	207.5	163.3	155.9	129.4	120.6	103.0	92.7	95.7	126.5
87.5°	147.1	151.5	139.7	111.8	92.7	72.1	66.3	56.0	47.2	54.4	66.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269650

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-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°	7774.3	7936.3	8120.1	8355.7	8557.3	8888.3	9206.2	9397.4
5°	5812.8	6082.1	6417.5	6848.7	7250.5	7853.8	8452.7	8836.8
7.5°	4160.1	4448.5	4810.7	5349.1	5917.2	6686.9	7478.6	7937.8
10°	3442.0	3737.8	4042.5	4405.8	4870.9	5708.3	6644.1	7162.1
12.5°	2847.4	3163.9	3492.0	3874.7	4305.8	5053.3	6132.1	6728.0
15°	2179.4	2532.6	2919.6	3403.8	3943.7	4807.6	6005.4	6652.9
17.5°	1493.6	1888.1	2363.4	2960.9	3621.5	4728.1	6232.1	6978.3
20°	1028.6	1315.6	1823.3	2523.8	3318.3	4717.9	6667.7	7602.1
22.5°	860.8	988.9	1359.8	2122.1	3090.3	4844.4	7343.1	8477.8
25°	796.1	872.7	1086.1	1773.3	2924.1	5135.8	8273.2	9610.8
27.5°	757.9	827.0	986.0	1545.2	2793.1	5474.4	9178.3	10708.6
30°	772.6	843.1	958.0	1428.9	2615.0	5756.8	9981.6	11565.0
32.5°	696.0	727.0	821.1	1325.9	2487.0	5993.8	10685.1	12274.4
35°	593.1	647.5	732.8	1277.3	2489.9	6152.8	11451.9	13180.9
37.5°	565.0	619.6	681.4	1259.7	2523.8	6321.9	12331.8	14243.3
40°	547.4	597.5	650.5	1249.4	2556.1	6476.4	13194.1	15294.2
42.5°	535.7	581.3	647.5	1214.1	2572.3	6614.7	13903.4	16187.4
45°	534.2	581.3	659.3	1178.8	2597.3	6763.3	14497.9	16848.2
47.5°	535.7	600.3	637.2	1136.0	2597.3	7012.1	15195.5	17438.2
50°	529.8	632.8	613.6	1075.7	2537.1	7483.1	16152.1	18228.4
52.5°	526.9	628.4	568.0	983.0	2432.5	8230.5	17377.8	19317.4
55°	519.5	606.3	535.7	844.6	2310.4	9045.8	18690.6	20605.1
57.5°	512.2	537.1	518.1	724.0	2122.1	9619.7	19594.1	21610.2
60°	573.8	469.5	503.3	665.1	1870.5	9777.2	19558.7	22010.5
62.5°	531.3	440.0	484.1	651.9	1693.8	9335.6	18655.2	21794.0
65°	416.5	420.9	465.1	690.2	1646.8	8165.9	17054.1	20794.9
67.5°	381.2	401.7	445.9	738.8	1651.2	6538.3	14661.3	18618.5
70°	359.1	381.2	423.8	763.7	1662.9	4873.8	11591.5	15164.6
72.5°	334.1	353.2	398.8	768.2	1586.3	3540.6	8934.0	11150.1
75°	304.6	322.3	363.5	669.5	1314.1	2456.1	6834.0	7628.6
77.5°	270.7	284.0	319.3	516.5	975.6	1571.7	5130.0	5572.8
80°	231.0	238.4	267.9	378.1	668.1	983.0	4058.6	4472.1
82.5°	185.4	188.4	207.5	284.0	434.2	631.2	2718.0	3102.0
85°	131.0	131.0	142.7	206.0	295.8	400.3	1475.9	1636.4
87.5°	61.9	63.3	63.3	113.2	154.5	203.0	339.9	208.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)