

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: P269649

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269649  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA 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: 40629.4 lumens  
Efficiency: N/A  
Efficacy: 81.1 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 - G5

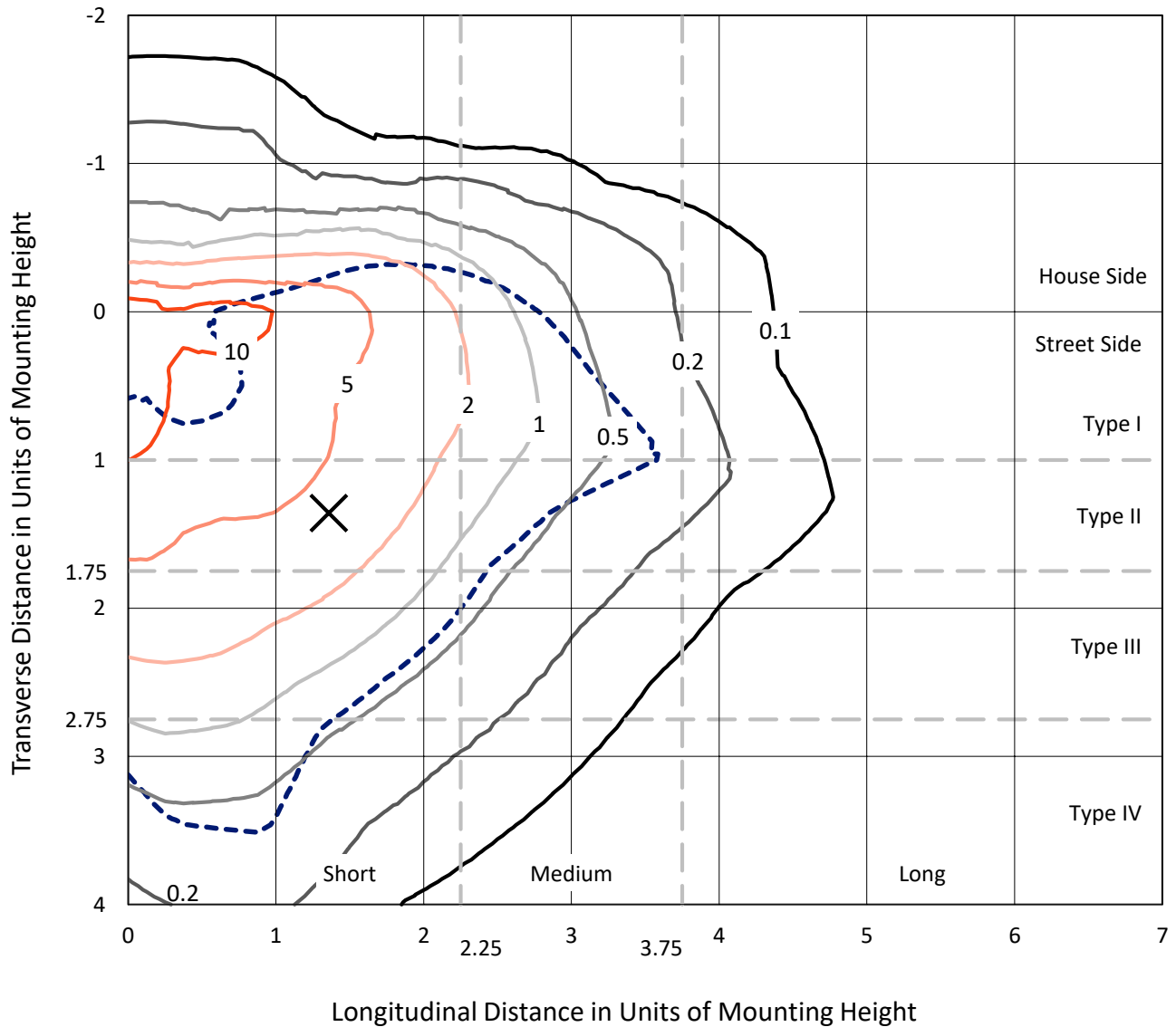
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

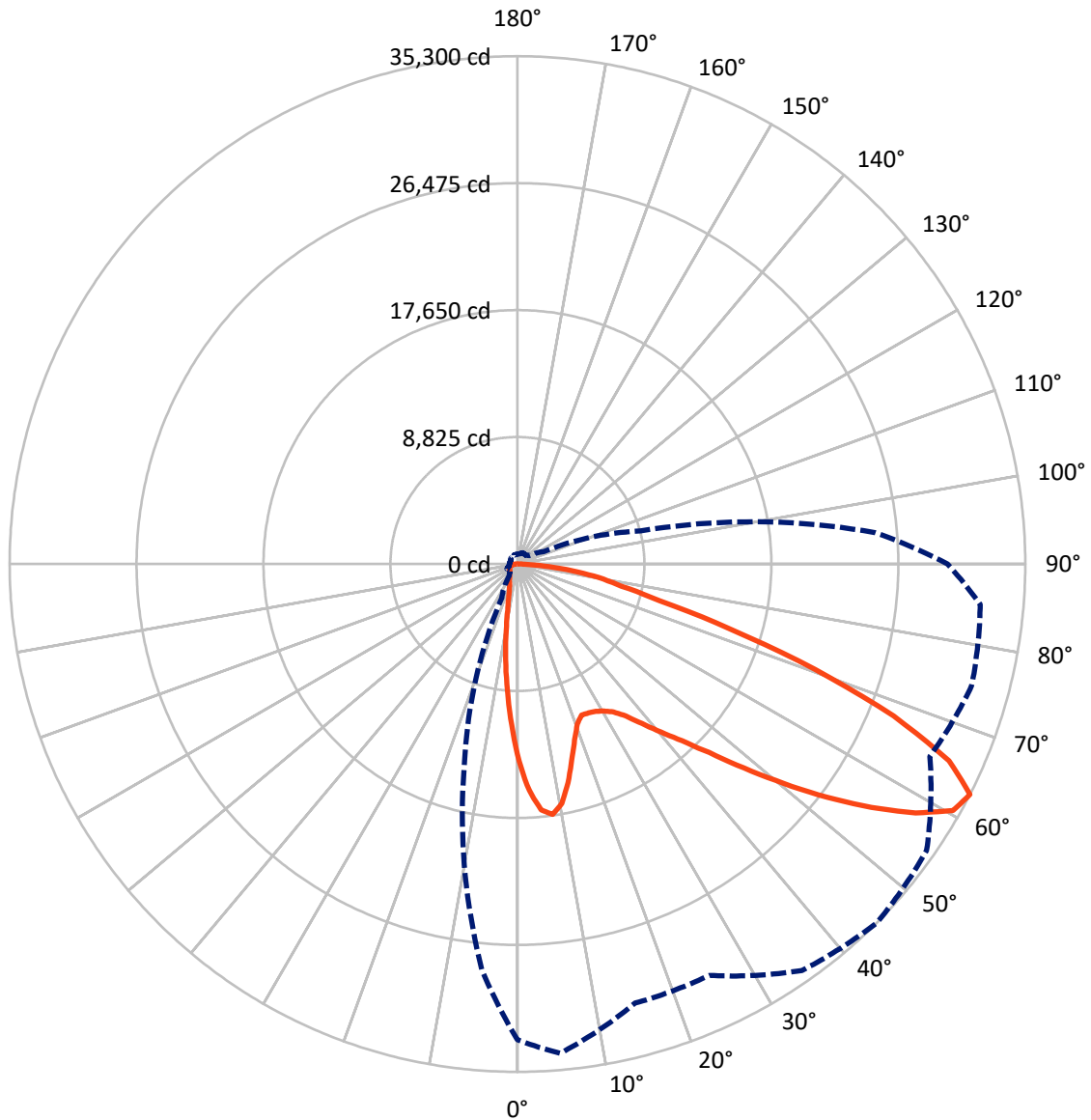
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18 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	6723.6	0.0	6723.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	33905.8	0.0	33905.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	40629.4	0.0	40629.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	999.3	2.5
10°-20°	1832.4	4.5
20°-30°	2671.6	6.6
30°-40°	4114.6	10.1
40°-50°	6055.6	14.9
50°-60°	8882.3	21.9
60°-70°	9929.1	24.4
70°-80°	4861.2	12.0
80°-90°	1283.5	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°	40629.4	100.0
0°-180°	40629.4	100.0



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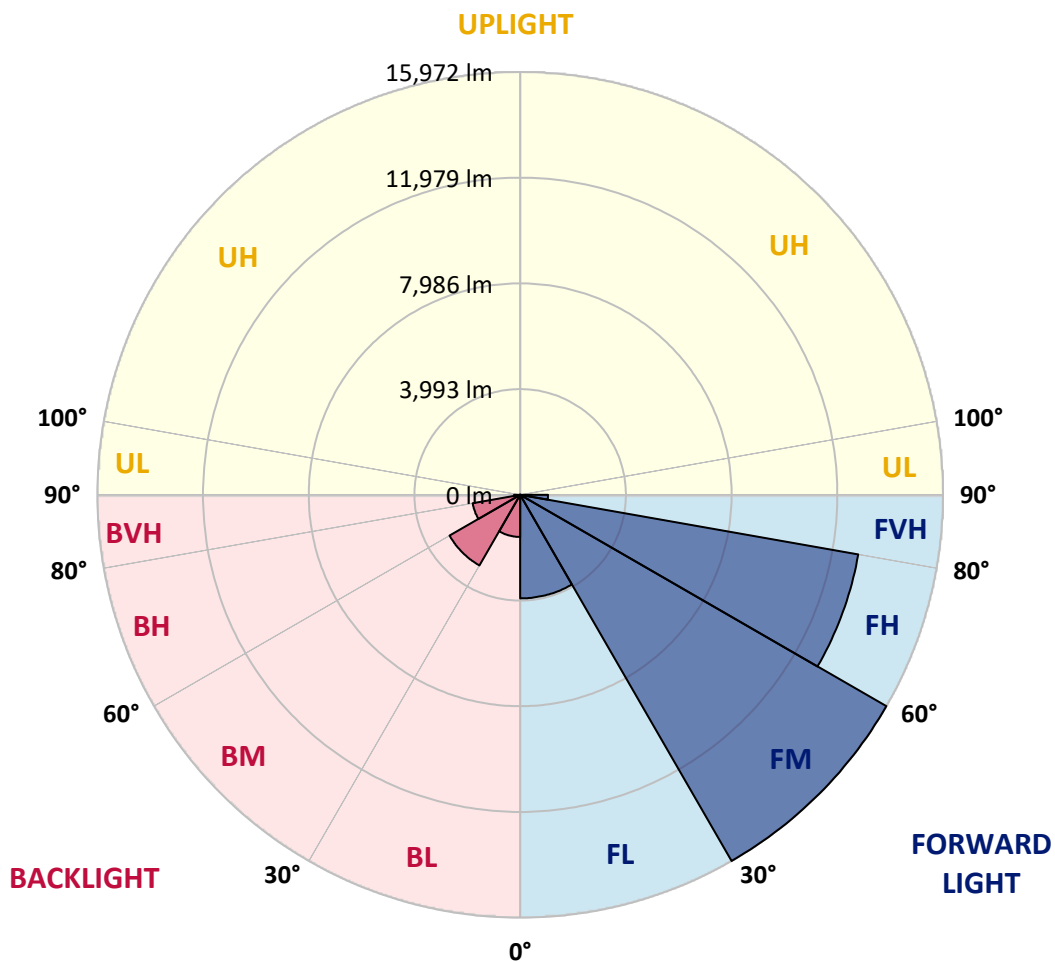
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3912.5	9.6			
FM	(30°-60°)	15971.8	39.3			
FH	(60°-80°)	12967.5	31.9			G5
FVH	(80°-90°)	1054.0	2.6			G5
BL	(0°-30°)	1590.7	3.9	B3/2500		
BM	(30°-60°)	3080.7	7.6	B3/5000		
BH	(60°-80°)	1822.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	229.4	0.6			G3/500
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°	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8
2.5°	14262.7	14490.6	14935.1	15268.0	15672.1	15766.0	15895.5	15768.2	15542.7	15243.2	15145.1
5°	13411.9	13898.8	14977.5	15926.8	16770.9	17164.0	17273.5	16949.7	16295.3	15435.3	14910.5
7.5°	12047.3	12739.7	14200.2	15598.3	16842.5	17577.2	17559.3	16806.7	15602.9	14202.6	13360.5
10°	10870.2	11660.9	13336.0	14899.4	16219.3	16931.9	16657.1	15694.5	14258.3	12645.8	11732.4
12.5°	10211.4	10986.4	12686.0	14256.1	15359.5	15605.1	15395.2	14452.7	13099.3	11468.8	10669.2
15°	10097.5	10948.5	12427.0	13704.5	14323.1	14108.7	13858.6	13436.5	12480.5	11089.0	10255.9
17.5°	10591.0	11529.0	12724.0	13320.2	13215.3	12842.3	12770.8	12817.7	12587.7	11511.2	10550.9
20°	11538.0	12663.6	13431.9	13139.4	12373.3	11859.7	11877.5	12594.4	13275.6	12581.0	11484.4
22.5°	12867.0	14151.2	14452.7	13235.4	12018.2	11408.5	11555.8	12717.2	14372.3	14144.4	12744.1
25°	14586.7	15757.0	15540.4	13583.9	12053.9	11464.3	11582.7	13141.7	15667.7	15707.9	14303.1
27.5°	16252.9	17338.2	16453.8	14046.2	12201.4	11596.1	11752.4	13809.5	16905.1	17405.3	16085.3
30°	17552.7	18307.5	16815.6	14468.3	12491.7	11853.0	12047.3	14443.8	17467.8	18551.1	17456.7
32.5°	18629.2	19171.9	17391.8	14990.9	13025.6	12257.3	12598.9	15214.2	18278.6	19641.0	18799.0
35°	20005.1	20159.1	18108.8	15573.8	13849.7	12960.7	13385.0	15969.2	19051.3	20742.0	20121.1
37.5°	21617.6	21418.7	18785.5	16371.3	14915.0	14061.8	14412.4	16797.8	19688.0	21990.6	21472.5
40°	23212.3	22734.3	19634.3	17608.5	16469.4	15359.5	15774.9	17682.2	20282.0	23241.3	22792.3
42.5°	24567.9	23860.1	20471.8	18968.7	17916.8	16791.1	17287.0	18573.4	20849.3	24308.9	23938.2
45°	25570.9	24690.9	21269.2	20275.3	19911.2	18694.0	18928.5	19594.1	21463.6	25200.1	24880.6
47.5°	26466.5	25526.1	22171.4	21593.0	21655.6	21168.6	20791.2	20782.3	22187.1	25928.1	25771.8
50°	27665.8	26685.3	23140.8	22950.9	24273.2	23949.4	23116.3	22169.2	23102.8	26754.5	26736.7
52.5°	29318.5	28521.1	24324.6	24413.9	26716.6	26928.8	25896.9	23835.4	24536.8	28271.1	28163.8
55°	31272.9	30808.2	25937.1	26095.7	29713.9	29865.7	28840.5	25919.2	26645.0	30466.6	30169.4
57.5°	32798.2	32700.0	27706.0	28114.8	31951.8	32635.2	31692.7	28331.4	29021.5	32315.8	31569.9
60°	33405.8	33881.6	29588.8	30151.6	34022.1	34779.3	33953.0	30450.8	31127.6	33081.9	31473.8
62.5°	33077.4	34140.5	31594.4	31547.5	34484.6	35299.7	34719.0	31630.2	32688.9	32291.3	29881.4
65°	31561.0	33209.3	32758.0	31188.0	32903.2	32970.2	32782.7	31103.1	33057.4	29792.0	26803.6
67.5°	28257.7	30629.6	31226.0	28105.8	28637.3	28201.7	27887.0	28217.5	31136.6	26046.5	22526.5
70°	23015.7	26584.8	26870.7	22479.7	22238.5	21946.0	21318.2	23134.1	27346.5	21347.3	17874.4
72.5°	16922.9	20675.1	21552.9	16487.3	15370.5	15430.9	14935.1	17434.3	22233.9	15857.5	13345.0
75°	11578.3	14970.9	16862.5	11504.6	10164.4	10189.0	10126.5	12353.2	17709.0	11031.0	9985.7
77.5°	8458.1	10695.9	12717.2	7734.4	7508.8	7370.5	7336.8	8643.4	13577.2	8009.2	7754.6
80°	6787.5	7902.0	8542.9	5360.2	5764.6	5753.4	5568.1	5943.2	8866.8	5858.3	5800.3
82.5°	4708.1	6072.7	6921.5	4201.2	3890.6	3825.9	3870.5	4426.7	6267.0	4004.6	3808.1
85°	2483.6	4033.6	6854.4	3723.1	2309.5	1842.7	2291.5	3624.9	5429.5	2121.7	1858.2
87.5°	317.1	1165.9	4538.3	1485.3	911.2	491.4	1087.7	2041.4	3486.4	433.3	377.5
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°	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8
2.5°	14892.7	14595.7	14207.1	13847.5	13474.4	13103.7	12619.0	12315.3	12105.3	12065.1	11975.8
5°	14530.9	13543.7	12797.8	12152.2	11567.0	10740.7	10282.8	9903.2	9699.9	9679.7	9630.6
7.5°	12862.4	11500.0	10492.7	9579.3	8750.7	8082.9	7345.8	7001.8	6861.2	6894.8	6928.2
10°	11127.0	9603.9	8446.9	7513.3	6783.0	6220.1	5628.3	5228.6	4951.5	4895.8	4884.5
12.5°	9858.4	8187.8	7064.5	6405.5	5840.5	5311.1	4683.6	4212.3	3852.7	3729.9	3647.2
15°	9322.4	7495.5	6318.5	5608.2	4985.1	4312.9	3729.9	3236.2	2905.7	2798.5	2738.3
17.5°	9436.3	7303.4	5804.8	4895.8	4098.3	3397.1	2662.2	2240.2	2041.4	1990.0	1990.0
20°	10034.8	7267.6	5380.4	4239.1	3245.1	2432.3	1829.2	1587.9	1523.3	1516.5	1534.3
22.5°	10874.7	7392.7	5063.2	3669.5	2521.5	1775.6	1424.9	1335.6	1306.6	1313.2	1333.4
25°	12125.4	7814.9	4833.2	3162.6	1978.8	1453.9	1270.8	1217.3	1203.8	1221.7	1246.3
27.5°	13608.5	8237.0	4690.2	2780.7	1670.6	1329.0	1208.3	1152.4	1161.4	1183.7	1206.1
30°	14910.5	8583.1	4464.7	2508.2	1574.5	1335.6	1208.3	1132.4	1123.4	1127.9	1134.6
32.5°	16078.7	8817.7	4201.2	2249.0	1358.0	1185.9	1127.9	1116.8	1067.5	1049.7	1051.9
35°	17085.9	8817.7	4042.6	2097.3	1217.3	1051.9	958.1	902.3	877.7	880.0	904.6
37.5°	18057.5	8641.2	3964.4	2012.4	1141.2	1000.6	918.0	868.8	835.3	828.5	833.1
40°	18915.2	8384.4	3875.1	1976.6	1083.3	969.4	891.2	851.0	815.2	804.1	806.3
42.5°	19603.1	8176.6	3776.7	1929.6	1047.6	947.1	873.3	837.5	797.3	786.1	784.0
45°	20346.8	8107.5	3647.2	1835.9	1065.4	949.1	868.8	830.8	790.7	777.3	772.8
47.5°	21327.2	8324.1	3513.2	1724.2	1103.3	960.4	875.5	830.8	788.4	777.3	772.8
50°	22562.3	8833.4	3343.5	1561.2	1065.4	991.6	873.3	824.1	788.4	777.3	768.3
52.5°	24148.1	9521.2	3120.2	1373.6	1043.0	1067.5	868.8	810.7	777.3	761.7	746.0
55°	26075.6	10084.1	2854.4	1219.4	991.6	1047.6	862.2	795.1	759.3	737.0	723.7
57.5°	27487.1	10287.3	2512.6	1119.0	920.1	1013.9	853.2	775.0	737.0	719.2	701.2
60°	27208.0	9894.2	2224.6	1056.4	877.7	915.7	846.6	757.1	716.9	703.6	687.9
62.5°	24972.3	8866.8	2039.2	1027.4	851.0	835.3	853.2	739.2	699.2	685.6	681.3
65°	21619.8	7350.3	1965.4	1020.7	828.5	788.4	792.8	719.2	678.9	667.8	663.4
67.5°	17834.1	5932.0	1900.6	1043.0	799.6	754.9	732.6	692.4	658.8	647.7	638.8
70°	14064.0	4933.8	1871.6	1029.5	763.9	721.3	696.8	663.4	634.4	623.2	616.4
72.5°	11325.8	4167.6	1856.0	1016.3	716.9	676.8	654.3	625.4	594.0	589.6	582.9
75°	9583.7	3276.5	1699.7	973.9	663.4	623.2	607.6	580.8	549.5	549.5	544.9
77.5°	7392.7	2369.6	1413.8	862.2	607.6	562.8	549.5	529.3	493.6	500.3	498.1
80°	5460.7	1545.5	1105.5	714.7	538.3	495.9	489.1	469.0	431.0	440.0	440.0
82.5°	3741.0	1013.9	795.1	585.2	460.1	419.9	419.9	399.7	357.3	361.7	375.2
85°	1878.4	696.8	594.0	453.4	357.3	337.3	337.3	321.7	279.2	281.3	299.2
87.5°	571.9	419.9	393.1	323.8	256.8	252.3	241.3	230.1	203.2	201.0	212.2
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°	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8
2.5°	11839.5	11712.2	11558.1	11218.7	11104.8	11098.0	11200.7	11093.6	11299.1	11211.9	11308.0
5°	9548.1	9423.0	9250.9	8817.7	8554.1	8375.4	8290.5	8040.4	8221.4	8089.5	8199.0
7.5°	7022.1	7050.9	6937.2	6682.5	6108.5	5820.4	5650.7	5498.7	5630.5	5617.1	5827.0
10°	4935.9	5014.1	4933.8	4676.8	4212.3	4053.7	4085.0	4145.3	4317.3	4406.5	4730.5
12.5°	3553.4	3548.9	3497.6	3267.6	2961.5	2979.4	3106.8	3211.7	3370.4	3464.0	3794.6
15°	2653.4	2613.1	2590.8	2403.1	2229.0	2267.0	2329.5	2340.7	2441.1	2497.0	2765.1
17.5°	2005.6	2025.8	2050.3	1916.4	1784.6	1760.0	1710.8	1650.5	1679.6	1690.7	1824.7
20°	1592.4	1672.9	1733.2	1639.3	1505.4	1433.9	1371.4	1331.2	1331.2	1329.0	1367.0
22.5°	1391.5	1449.5	1514.4	1449.5	1329.0	1266.4	1230.7	1199.3	1194.8	1194.8	1230.7
25°	1282.1	1324.5	1387.0	1342.2	1253.0	1206.1	1172.6	1132.4	1116.8	1112.2	1136.8
27.5°	1228.4	1246.3	1277.5	1237.3	1161.4	1139.1	1130.2	1094.3	1074.4	1063.1	1087.7
30°	1136.8	1132.4	1134.6	1094.3	1034.0	1031.9	1047.6	1054.3	1047.6	1045.3	1083.3
32.5°	1051.9	1043.0	1040.7	1005.1	949.1	935.9	949.1	962.7	978.3	1000.6	1045.3
35°	944.7	967.0	980.5	949.1	882.2	842.0	826.4	801.7	788.4	788.4	839.7
37.5°	859.9	911.2	931.4	902.3	828.5	772.8	746.0	741.6	743.7	752.7	801.7
40°	830.8	868.8	886.6	857.6	784.0	732.6	716.9	712.4	716.9	730.3	779.5
42.5°	813.0	839.7	837.5	801.7	741.6	705.8	696.8	692.4	696.8	710.2	763.9
45°	797.3	815.2	797.3	754.9	699.2	681.3	683.4	681.3	685.6	699.2	750.4
47.5°	784.0	790.7	768.3	725.9	667.8	663.4	672.3	678.9	683.4	694.6	748.2
50°	763.9	763.9	743.7	699.2	641.0	643.2	654.3	670.0	672.3	685.6	728.0
52.5°	739.2	737.0	723.7	681.3	618.7	625.4	625.4	643.2	647.7	663.4	708.0
55°	719.2	714.7	708.0	667.8	598.6	609.7	603.0	609.7	620.9	636.4	685.6
57.5°	701.2	692.4	692.4	656.7	582.9	587.4	571.9	580.8	594.0	607.6	658.8
60°	683.4	674.4	678.9	641.0	558.3	553.9	547.2	565.0	569.5	585.2	636.4
62.5°	663.4	656.7	658.8	623.2	540.5	529.3	529.3	544.9	547.2	569.5	618.7
65°	647.7	638.8	636.4	605.3	520.4	507.1	513.7	520.4	524.9	547.2	594.0
67.5°	632.0	614.3	614.3	589.6	498.1	484.6	498.1	495.9	502.5	522.6	560.6
70°	611.9	587.4	589.6	578.5	475.7	460.1	471.3	469.0	473.4	486.9	524.9
72.5°	580.8	560.6	565.0	560.6	453.4	431.0	435.5	435.5	435.5	446.6	486.9
75°	540.5	524.9	538.3	549.5	426.5	395.3	399.7	399.7	393.1	399.7	449.0
77.5°	491.4	482.4	527.0	511.5	395.3	357.3	357.3	352.9	339.5	348.5	402.0
80°	437.7	431.0	486.9	428.9	359.6	310.5	306.1	294.9	281.3	288.1	341.7
82.5°	381.9	375.2	408.6	328.3	310.5	256.8	245.6	225.6	212.2	218.8	268.1
85°	312.7	312.7	314.9	247.9	236.8	196.5	183.2	156.3	140.8	145.2	192.1
87.5°	223.4	230.1	212.2	169.7	140.8	109.5	100.5	84.9	71.4	82.6	100.5
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: P269649

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-7027

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8
2.5°	11799.3	12045.1	12324.1	12681.6	12987.5	13490.0	13972.4	14262.7
5°	8822.2	9230.9	9740.1	10394.5	11004.2	11919.9	12829.0	13411.9
7.5°	6313.9	6751.8	7301.2	8118.6	8980.7	10148.8	11350.4	12047.3
10°	5224.1	5672.9	6135.3	6687.0	7392.7	8663.6	10084.1	10870.2
12.5°	4321.7	4801.9	5300.0	5880.7	6535.1	7669.6	9306.8	10211.4
15°	3307.7	3843.8	4431.2	5166.0	5985.6	7296.8	9114.7	10097.5
17.5°	2267.0	2865.6	3586.9	4493.7	5496.5	7176.1	9458.7	10591.0
20°	1561.2	1996.8	2767.3	3830.4	5036.4	7160.5	10119.8	11538.0
22.5°	1306.6	1500.9	2063.6	3220.7	4690.2	7352.5	11144.9	12867.0
25°	1208.3	1324.5	1648.3	2691.3	4437.8	7794.8	12556.5	14586.7
27.5°	1150.2	1255.2	1496.3	2345.1	4239.1	8308.5	13930.0	16252.9
30°	1172.6	1279.7	1453.9	2168.7	3968.8	8737.3	15149.6	17552.7
32.5°	1056.4	1103.3	1246.3	2012.4	3774.6	9096.9	16217.1	18629.2
35°	900.1	982.7	1112.2	1938.6	3779.0	9338.2	17380.8	20005.1
37.5°	857.6	940.3	1034.0	1911.9	3830.4	9594.9	18716.4	21617.6
40°	830.8	906.7	987.1	1896.2	3879.5	9829.4	20025.1	23212.3
42.5°	813.0	882.2	982.7	1842.7	3904.0	10039.4	21101.6	24567.9
45°	810.7	882.2	1000.6	1789.1	3942.0	10264.9	22004.0	25570.9
47.5°	813.0	911.2	967.0	1724.2	3942.0	10642.4	23062.6	26466.5
50°	804.1	960.4	931.4	1632.7	3850.4	11357.1	24514.3	27665.8
52.5°	799.6	953.7	862.2	1491.9	3691.9	12491.7	26374.9	29318.5
55°	788.4	920.1	813.0	1282.1	3506.5	13729.1	28367.0	31272.9
57.5°	777.3	815.2	786.1	1098.8	3220.7	14600.2	29738.4	32798.2
60°	871.0	712.4	763.9	1009.5	2838.7	14839.0	29684.9	33405.8
62.5°	806.3	667.8	734.9	989.5	2570.7	14169.1	28313.5	33077.4
65°	632.0	638.8	705.8	1047.6	2499.3	12393.5	25883.6	31561.0
67.5°	578.5	609.7	676.8	1121.2	2505.9	9923.2	22251.8	28257.7
70°	544.9	578.5	643.2	1159.2	2523.8	7397.3	17592.9	23015.7
72.5°	507.1	536.0	605.3	1165.9	2407.6	5373.8	13559.2	16922.9
75°	462.3	489.1	551.6	1016.3	1994.4	3727.6	10372.2	11578.3
77.5°	411.0	431.0	484.6	784.0	1480.8	2385.3	7785.8	8458.1
80°	350.7	361.7	406.6	573.9	1013.9	1491.9	6159.9	6787.5
82.5°	281.3	285.9	314.9	431.0	658.8	958.1	4125.1	4708.1
85°	198.7	198.7	216.6	312.7	449.0	607.6	2240.2	2483.6
87.5°	93.9	96.1	96.1	171.9	234.5	308.2	515.9	317.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)