

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: P191296

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191296  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 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: 42886.2 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 445  
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

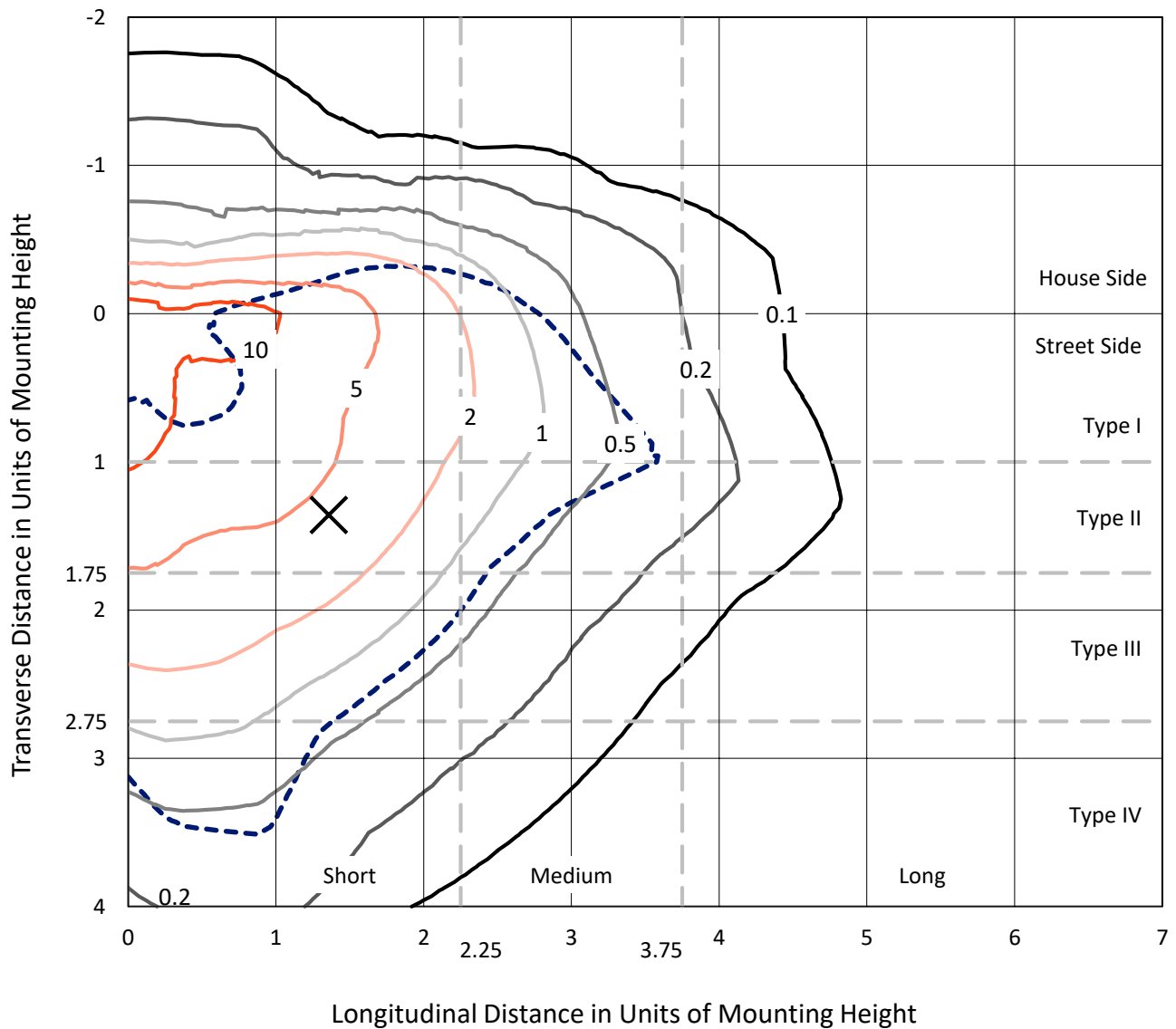


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### Iso-Footcandle Lines of Horizontal Illumination

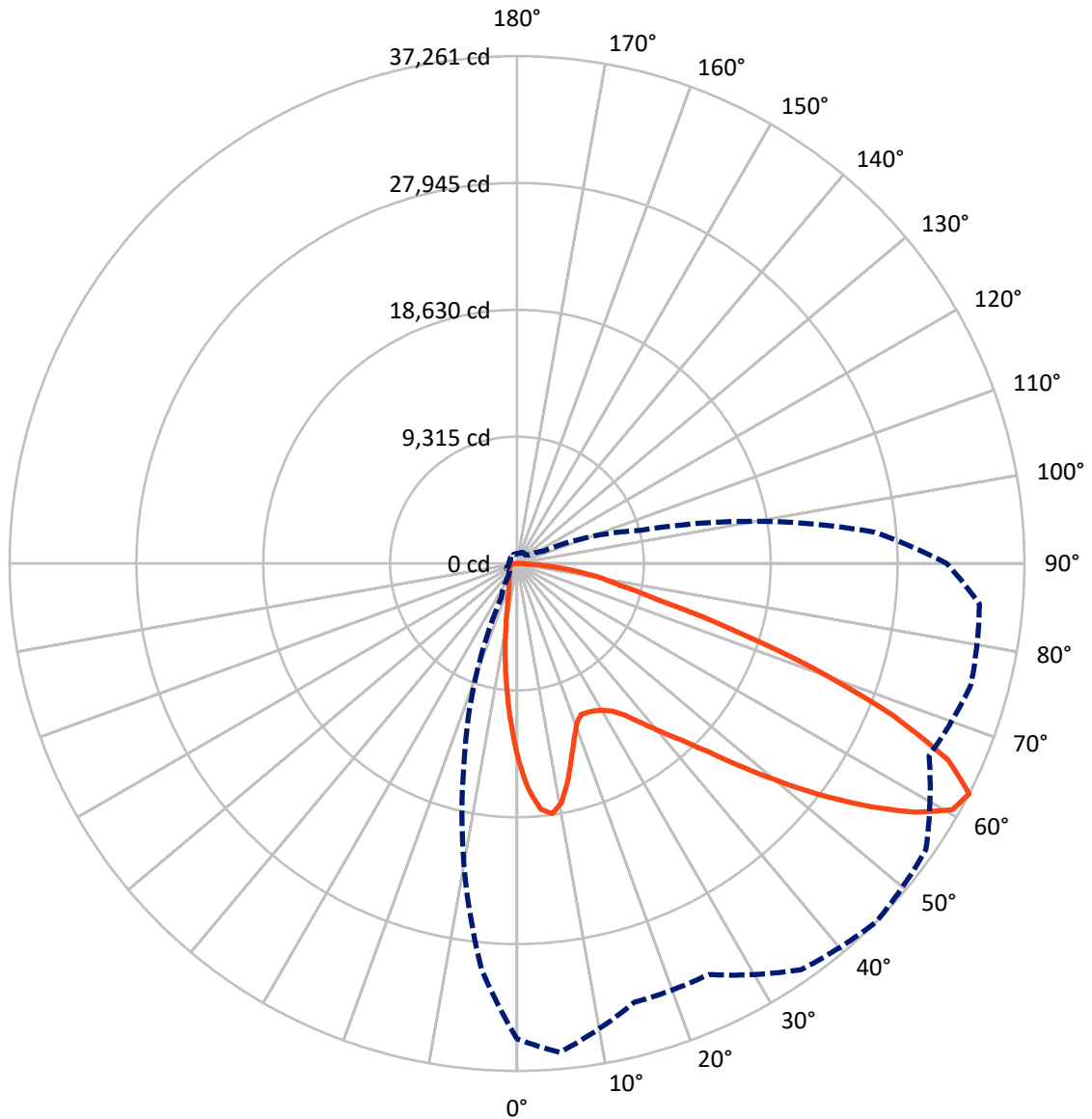
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.9 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	7097.1	0.0	7097.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	35789.1	0.0	35789.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	42886.2	0.0	42886.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1054.8	2.5
10°-20°	1934.1	4.5
20°-30°	2820.0	6.6
30°-40°	4343.1	10.1
40°-50°	6392.0	14.9
50°-60°	9375.7	21.9
60°-70°	10480.6	24.4
70°-80°	5131.2	12.0
80°-90°	1354.8	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°	42886.2	100.0
0°-180°	42886.2	100.0

**Coefficient of Utilization**



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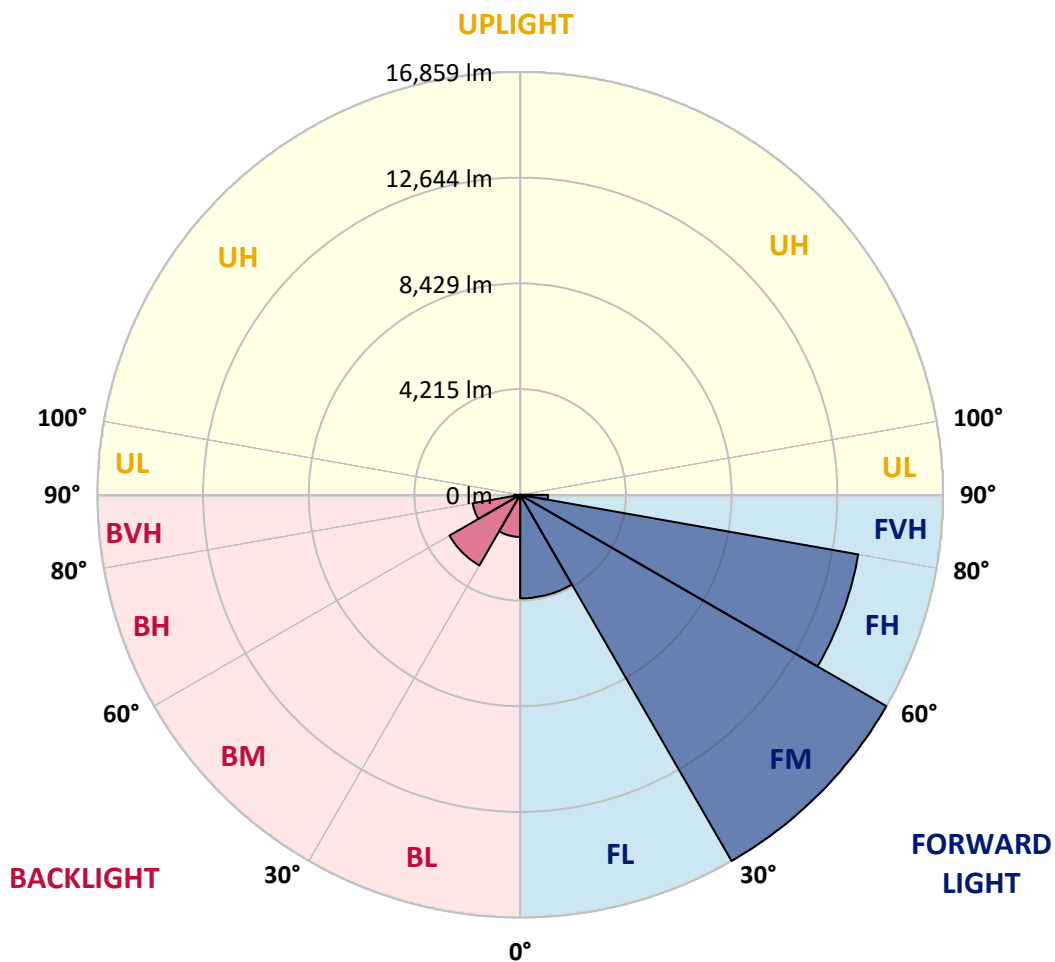
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4129.8	9.6			
FM (30°-60°)	16858.9	39.3			
FH (60°-80°)	13687.8	31.9			G5
FVH (80°-90°)	1112.6	2.6			G5
BL (0°-30°)	1679.1	3.9	B3/2500		
BM (30°-60°)	3251.8	7.6	B3/5000		
BH (60°-80°)	1924.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	242.2	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°	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3
2.5°	15055.1	15295.6	15764.7	16116.0	16542.6	16641.7	16778.4	16644.0	16405.9	16090.0	15986.3
5°	14156.8	14670.8	15809.5	16811.4	17702.6	18117.5	18233.0	17891.2	17200.4	16292.7	15738.7
7.5°	12716.4	13447.2	14989.1	16464.9	17778.0	18553.6	18534.7	17740.3	16469.6	14991.4	14102.6
10°	11474.0	12308.6	14076.7	15726.9	17120.2	17872.3	17582.3	16566.3	15050.4	13348.3	12384.0
12.5°	10778.5	11596.6	13390.6	15048.0	16212.6	16472.0	16250.3	15255.5	13826.8	12105.8	11261.9
15°	10658.3	11556.5	13117.2	14465.6	15118.7	14892.4	14628.4	14182.8	13173.8	11705.0	10825.7
17.5°	11179.3	12169.4	13430.7	14060.2	13949.4	13555.7	13480.2	13529.8	13286.9	12150.6	11136.9
20°	12178.9	13367.1	14178.1	13869.3	13060.6	12518.4	12537.3	13294.0	14013.1	13279.8	12122.3
22.5°	13581.6	14937.2	15255.5	13970.6	12685.8	12042.2	12197.8	13423.7	15170.6	14930.1	13452.0
25°	15396.9	16632.3	16403.5	14338.4	12723.5	12101.1	12226.1	13871.6	16537.9	16580.4	15097.5
27.5°	17155.6	18301.4	17367.8	14826.3	12879.1	12240.2	12405.2	14576.5	17844.0	18372.1	16978.8
30°	18527.7	19324.6	17749.7	15271.9	13185.5	12511.3	12716.4	15246.1	18438.1	19581.5	18426.3
32.5°	19664.0	20236.8	18358.0	15823.6	13749.0	12938.0	13298.8	16059.4	19293.9	20731.9	19843.2
35°	21116.3	21278.9	19114.7	16438.9	14618.9	13680.6	14128.6	16856.2	20109.6	21894.2	21238.8
37.5°	22818.4	22608.5	19829.0	17280.6	15743.4	14842.9	15213.0	17730.8	20781.5	23212.1	22665.1
40°	24501.6	23997.1	20724.9	18586.6	17384.3	16212.6	16651.1	18664.5	21408.5	24532.3	24058.4
42.5°	25932.6	25185.3	21608.9	20022.3	18911.9	17723.7	18247.1	19605.1	22007.4	25659.2	25267.8
45°	26991.2	26062.3	22450.6	21401.5	21017.2	19732.4	19979.9	20682.4	22655.7	26599.8	26262.7
47.5°	27936.5	26944.0	23403.0	22792.5	22858.4	22344.5	21946.1	21936.7	23419.5	27368.3	27203.3
50°	29202.5	28167.6	24426.2	24225.8	25621.4	25279.6	24400.2	23400.6	24386.1	28240.6	28221.8
52.5°	30947.0	30105.4	25675.7	25770.0	28200.5	28424.5	27335.4	25159.4	25899.6	29841.4	29728.2
55°	33009.9	32519.5	27377.7	27545.2	31364.3	31524.7	30442.5	27358.9	28125.1	32158.8	31845.3
57.5°	34620.0	34516.3	29244.9	29676.3	33726.6	34448.0	33453.0	29905.0	30633.5	34110.8	33323.4
60°	35261.3	35763.5	31232.3	31826.5	35912.0	36711.1	35838.9	32142.3	32856.7	34919.4	33222.1
62.5°	34914.7	36036.9	33349.3	33299.8	36400.0	37260.5	36647.5	33387.1	34504.5	34084.9	31541.2
65°	33314.0	35053.9	34577.6	32920.3	34730.8	34801.6	34603.6	32830.7	34893.6	31446.8	28292.5
67.5°	29827.2	32330.9	32960.4	29666.9	30228.0	29768.3	29435.9	29784.8	32866.1	27493.3	23777.9
70°	24294.2	28061.5	28363.3	23728.4	23473.8	23164.9	22502.5	24419.1	28865.3	22533.0	18867.2
72.5°	17862.9	21823.5	22750.0	17403.2	16224.4	16288.0	15764.7	18402.8	23469.0	16738.3	14086.1
75°	12221.3	15802.4	17799.2	12143.6	10729.0	10755.0	10688.9	13039.3	18692.7	11643.7	10540.4
77.5°	8927.9	11290.1	13423.7	8164.1	7925.9	7779.7	7744.5	9123.6	14331.3	8454.1	8185.2
80°	7164.4	8340.8	9017.5	5658.0	6084.7	6073.0	5877.3	6273.3	9359.3	6183.7	6122.5
82.5°	4969.6	6410.1	7305.9	4434.5	4106.7	4038.4	4085.6	4672.6	6615.2	4227.0	4019.6
85°	2621.5	4257.6	7235.2	3930.0	2437.7	1944.9	2418.8	3826.2	5731.1	2239.6	1961.4
87.5°	334.8	1230.6	4790.5	1567.8	961.9	518.6	1148.1	2154.7	3680.1	457.4	398.4
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°	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3
2.5°	15719.9	15406.4	14996.2	14616.5	14222.9	13831.5	13319.9	12999.4	12777.7	12735.2	12641.0
5°	15337.9	14295.9	13508.6	12827.2	12209.5	11337.3	10854.0	10453.2	10238.7	10217.4	10165.6
7.5°	13576.9	12138.8	11075.6	10111.4	9236.7	8531.8	7753.9	7390.8	7242.3	7277.7	7313.0
10°	11745.1	10137.3	8916.1	7930.6	7159.7	6565.7	5940.9	5518.9	5226.6	5167.6	5155.9
12.5°	10406.1	8642.6	7456.8	6761.3	6164.9	5606.2	4943.7	4446.3	4066.7	3937.0	3849.8
15°	9840.3	7911.8	6669.4	5919.7	5262.0	4552.3	3937.0	3416.0	3067.1	2954.0	2890.3
17.5°	9960.5	7709.1	6127.2	5167.6	4326.1	3585.7	2810.1	2364.6	2154.7	2100.5	2100.5
20°	10592.3	7671.3	5679.2	4474.6	3425.5	2567.3	1930.8	1676.2	1607.8	1600.7	1619.6
22.5°	11478.7	7803.4	5344.5	3873.4	2661.6	1874.3	1504.0	1409.8	1379.1	1386.2	1407.5
25°	12799.0	8249.0	5101.7	3338.2	2088.8	1534.7	1341.4	1284.8	1270.7	1289.5	1315.5
27.5°	14364.3	8694.5	4950.8	2935.2	1763.5	1402.7	1275.4	1216.5	1225.9	1249.4	1273.1
30°	15738.7	9059.9	4712.6	2647.5	1662.1	1409.8	1275.4	1195.2	1185.8	1190.5	1197.6
32.5°	16971.7	9307.4	4434.5	2374.1	1433.4	1251.9	1190.5	1178.7	1126.9	1108.1	1110.4
35°	18034.9	9307.4	4267.1	2213.7	1284.8	1110.4	1011.4	952.5	926.5	928.8	954.8
37.5°	19060.4	9121.2	4184.6	2124.2	1204.7	1056.2	968.9	917.1	881.7	874.6	879.3
40°	19965.7	8850.1	4090.3	2086.4	1143.4	1023.2	940.6	898.3	860.5	848.7	851.1
42.5°	20691.8	8630.8	3986.5	2036.9	1105.7	999.6	921.8	884.0	841.6	829.8	827.5
45°	21477.0	8557.8	3849.8	1937.9	1124.5	1002.0	917.1	877.0	834.5	820.4	815.7
47.5°	22511.9	8786.4	3708.4	1820.0	1164.6	1013.7	924.1	877.0	832.2	820.4	815.7
50°	23815.6	9324.0	3529.2	1647.9	1124.5	1046.8	921.8	869.9	832.2	820.4	811.0
52.5°	25489.4	10050.1	3293.5	1449.8	1101.0	1126.9	917.1	855.8	820.4	803.9	787.4
55°	27523.9	10644.2	3012.9	1287.2	1046.8	1105.7	910.0	839.2	801.6	778.0	763.8
57.5°	29013.9	10858.7	2652.2	1181.1	971.3	1070.3	900.6	818.1	778.0	759.1	740.3
60°	28719.2	10443.8	2348.1	1115.1	926.5	966.6	893.5	799.2	756.8	742.7	726.1
62.5°	26359.3	9359.3	2152.4	1084.4	898.3	881.7	900.6	780.3	737.9	723.7	719.0
65°	22820.7	7758.6	2074.6	1077.4	874.6	832.2	836.9	759.1	716.7	704.9	700.2
67.5°	18824.8	6261.6	2006.2	1101.0	844.0	796.9	773.2	730.8	695.5	683.6	674.2
70°	14845.3	5207.7	1975.6	1086.8	806.3	761.5	735.5	700.2	669.5	657.8	650.7
72.5°	11954.9	4399.1	1959.1	1072.7	756.8	714.3	690.8	660.1	627.1	622.4	615.3
75°	10116.1	3458.5	1794.1	1027.9	700.2	657.8	641.3	613.0	579.9	579.9	575.2
77.5°	7803.4	2501.3	1492.3	910.0	641.3	594.1	579.9	558.7	521.0	528.0	525.7
80°	5764.1	1631.4	1167.0	754.4	568.1	523.3	516.3	495.1	455.0	464.4	464.4
82.5°	3948.8	1070.3	839.2	617.7	485.7	443.2	443.2	422.0	377.2	381.9	396.1
85°	1982.7	735.5	627.1	478.5	377.2	356.0	356.0	339.5	294.7	297.1	315.9
87.5°	603.5	443.2	414.9	341.9	271.1	266.4	254.6	242.8	214.5	212.2	223.9
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°	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3
2.5°	12497.2	12362.8	12200.1	11841.8	11721.6	11714.4	11823.0	11709.7	11926.7	11834.7	11936.1
5°	10078.3	9946.4	9764.8	9307.4	9029.3	8840.6	8751.0	8487.0	8678.0	8538.9	8654.5
7.5°	7412.0	7442.7	7322.4	7053.7	6447.8	6143.6	5964.5	5804.2	5943.2	5929.1	6150.7
10°	5210.1	5292.6	5207.7	4936.7	4446.3	4278.9	4311.8	4375.6	4557.0	4651.4	4993.2
12.5°	3750.8	3746.0	3691.8	3449.1	3126.0	3145.0	3279.3	3390.1	3557.5	3656.5	4005.4
15°	2800.7	2758.3	2734.8	2536.7	2352.8	2392.9	2458.9	2470.6	2576.7	2635.7	2918.6
17.5°	2117.0	2138.3	2164.2	2022.8	1883.7	1857.7	1805.8	1742.2	1772.9	1784.6	1926.1
20°	1680.9	1765.8	1829.4	1730.4	1588.9	1513.6	1447.5	1405.1	1405.1	1402.7	1442.8
22.5°	1468.8	1530.0	1598.4	1530.0	1402.7	1336.7	1298.9	1266.0	1261.3	1261.3	1298.9
25°	1353.3	1398.0	1464.0	1416.9	1322.6	1273.1	1237.7	1195.2	1178.7	1174.0	1200.0
27.5°	1296.6	1315.5	1348.5	1306.1	1225.9	1202.4	1192.9	1155.2	1133.9	1122.2	1148.1
30°	1200.0	1195.2	1197.6	1155.2	1091.5	1089.1	1105.7	1112.8	1105.7	1103.4	1143.4
32.5°	1110.4	1101.0	1098.6	1060.9	1002.0	987.8	1002.0	1016.1	1032.6	1056.2	1103.4
35°	997.3	1020.8	1034.9	1002.0	931.2	888.7	872.3	846.4	832.2	832.2	886.4
37.5°	907.7	961.9	983.1	952.5	874.6	815.7	787.4	782.7	785.0	794.5	846.4
40°	877.0	917.1	935.9	905.3	827.5	773.2	756.8	752.1	756.8	770.9	822.8
42.5°	858.2	886.4	884.0	846.4	782.7	745.0	735.5	730.8	735.5	749.7	806.3
45°	841.6	860.5	841.6	796.9	737.9	719.0	721.4	719.0	723.7	737.9	792.2
47.5°	827.5	834.5	811.0	766.2	704.9	700.2	709.6	716.7	721.4	733.1	789.7
50°	806.3	806.3	785.0	737.9	676.6	678.9	690.8	707.3	709.6	723.7	768.5
52.5°	780.3	778.0	763.8	719.0	653.1	660.1	660.1	678.9	683.6	700.2	747.4
55°	759.1	754.4	747.4	704.9	631.8	643.6	636.5	643.6	655.4	671.9	723.7
57.5°	740.3	730.8	730.8	693.2	615.3	620.0	603.5	613.0	627.1	641.3	695.5
60°	721.4	712.0	716.7	676.6	589.4	584.6	577.6	596.5	601.2	617.7	671.9
62.5°	700.2	693.2	695.5	657.8	570.5	558.7	558.7	575.2	577.6	601.2	653.1
65°	683.6	674.2	671.9	638.9	549.3	535.1	542.3	549.3	554.0	577.6	627.1
67.5°	667.2	648.3	648.3	622.4	525.7	511.6	525.7	523.3	530.4	551.7	591.8
70°	646.0	620.0	622.4	610.6	502.2	485.7	497.5	495.1	499.8	513.9	554.0
72.5°	613.0	591.8	596.5	591.8	478.5	455.0	459.7	459.7	459.7	471.5	513.9
75°	570.5	554.0	568.1	579.9	450.3	417.3	422.0	422.0	414.9	422.0	473.8
77.5°	518.6	509.2	556.4	539.9	417.3	377.2	377.2	372.5	358.3	367.8	424.3
80°	462.1	455.0	513.9	452.7	379.5	327.7	322.9	311.2	297.1	304.1	360.7
82.5°	403.1	396.1	431.4	346.6	327.7	271.1	259.3	238.1	223.9	231.1	282.9
85°	330.0	330.0	332.5	261.7	249.9	207.5	193.3	165.0	148.5	153.2	202.7
87.5°	235.8	242.8	223.9	179.2	148.5	115.5	106.1	89.6	75.4	87.3	106.1
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: P191296

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

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3	14489.3
2.5°	12454.7	12714.1	13008.8	13385.9	13709.0	14239.4	14748.6	15055.1
5°	9312.1	9743.6	10281.1	10971.9	11615.5	12582.0	13541.5	14156.8
7.5°	6664.7	7126.8	7706.7	8569.6	9479.6	10712.5	11980.9	12716.4
10°	5514.2	5988.0	6476.1	7058.4	7803.4	9144.8	10644.2	11474.0
12.5°	4561.7	5068.6	5594.4	6207.4	6898.1	8095.7	9823.7	10778.5
15°	3491.4	4057.2	4677.3	5452.9	6318.2	7702.0	9621.0	10658.3
17.5°	2392.9	3024.7	3786.1	4743.3	5801.9	7574.6	9984.1	11179.3
20°	1647.9	2107.6	2920.9	4043.1	5316.2	7558.2	10681.9	12178.9
22.5°	1379.1	1584.2	2178.4	3399.6	4950.8	7760.9	11763.9	13581.6
25°	1275.4	1398.0	1739.8	2840.8	4684.4	8227.7	13254.0	15396.9
27.5°	1214.1	1324.9	1579.5	2475.3	4474.6	8770.0	14703.8	17155.6
30°	1237.7	1350.8	1534.7	2289.2	4189.3	9222.6	15991.0	18527.7
32.5°	1115.1	1164.6	1315.5	2124.2	3984.2	9602.1	17117.9	19664.0
35°	950.1	1037.3	1174.0	2046.3	3988.9	9856.7	18346.1	21116.3
37.5°	905.3	992.5	1091.5	2018.1	4043.1	10127.8	19755.9	22818.4
40°	877.0	957.2	1042.0	2001.5	4095.0	10375.4	21137.4	24501.6
42.5°	858.2	931.2	1037.3	1944.9	4121.0	10597.1	22273.7	25932.6
45°	855.8	931.2	1056.2	1888.4	4161.1	10835.1	23226.2	26991.2
47.5°	858.2	961.9	1020.8	1820.0	4161.1	11233.5	24343.7	27936.5
50°	848.7	1013.7	983.1	1723.4	4064.4	11988.0	25876.1	29202.5
52.5°	844.0	1006.7	910.0	1574.8	3896.9	13185.5	27839.8	30947.0
55°	832.2	971.3	858.2	1353.3	3701.3	14491.6	29942.8	33009.9
57.5°	820.4	860.5	829.8	1159.9	3399.6	15411.1	31390.3	34620.0
60°	919.4	752.1	806.3	1065.6	2996.4	15663.3	31333.7	35261.3
62.5°	851.1	704.9	775.6	1044.3	2713.5	14956.1	29886.1	34914.7
65°	667.2	674.2	745.0	1105.7	2638.1	13081.8	27321.2	33314.0
67.5°	610.6	643.6	714.3	1183.5	2645.1	10474.4	23487.9	29827.2
70°	575.2	610.6	678.9	1223.6	2664.0	7808.1	18570.1	24294.2
72.5°	535.1	565.8	638.9	1230.6	2541.4	5672.2	14312.4	17862.9
75°	488.0	516.3	582.3	1072.7	2105.2	3934.7	10948.2	12221.3
77.5°	433.7	455.0	511.6	827.5	1563.1	2517.8	8218.3	8927.9
80°	370.1	381.9	429.0	605.9	1070.3	1574.8	6502.0	7164.4
82.5°	297.1	301.8	332.5	455.0	695.5	1011.4	4354.3	4969.6
85°	209.8	209.8	228.6	330.0	473.8	641.3	2364.6	2621.5
87.5°	99.0	101.4	101.4	181.6	247.6	325.3	544.6	334.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)