

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: P192096

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192096
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 41924 lumens
Efficiency: N/A
Efficacy: 94.2 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

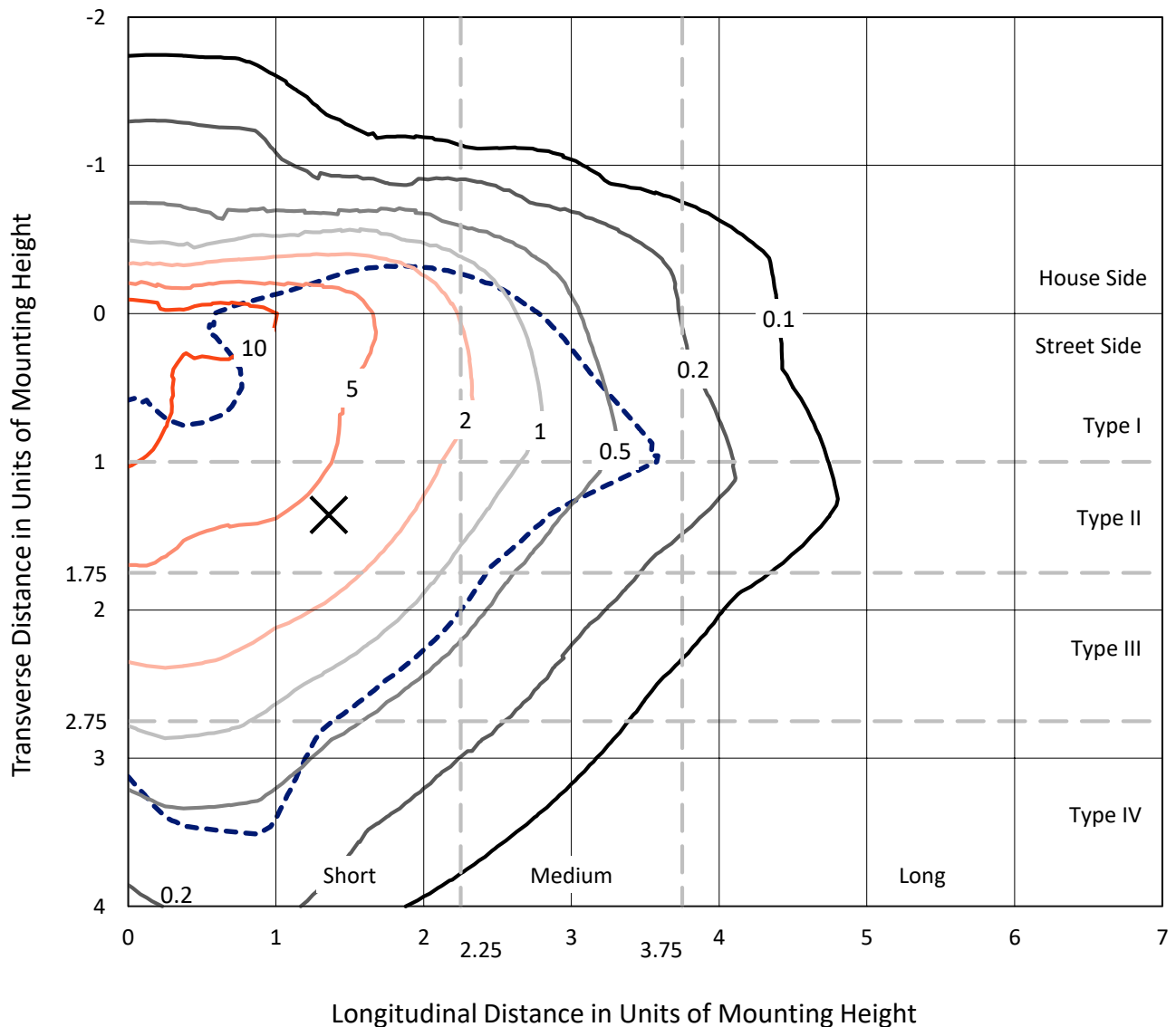
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

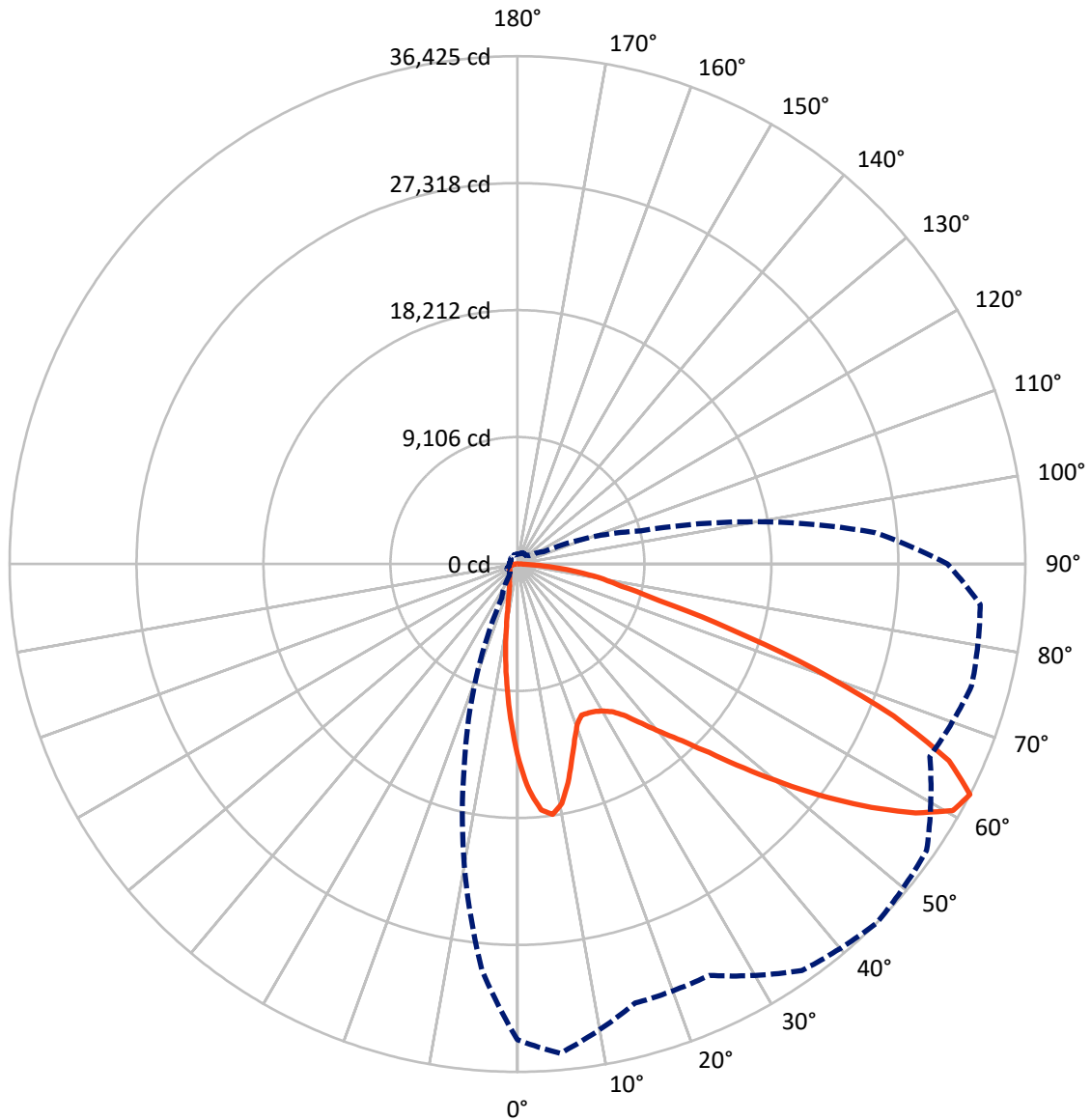
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.5 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
House Side	Lumens	6937.8	0.0	6937.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	34986.2	0.0	34986.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	41924.0	0.0	41924.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1031.1	2.5
10°-20°	1890.7	4.5
20°-30°	2756.7	6.6
30°-40°	4245.7	10.1
40°-50°	6248.6	14.9
50°-60°	9165.3	21.9
60°-70°	10245.5	24.4
70°-80°	5016.1	12.0
80°-90°	1324.4	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°	41924.0	100.0
0°-180°	41924.0	100.0



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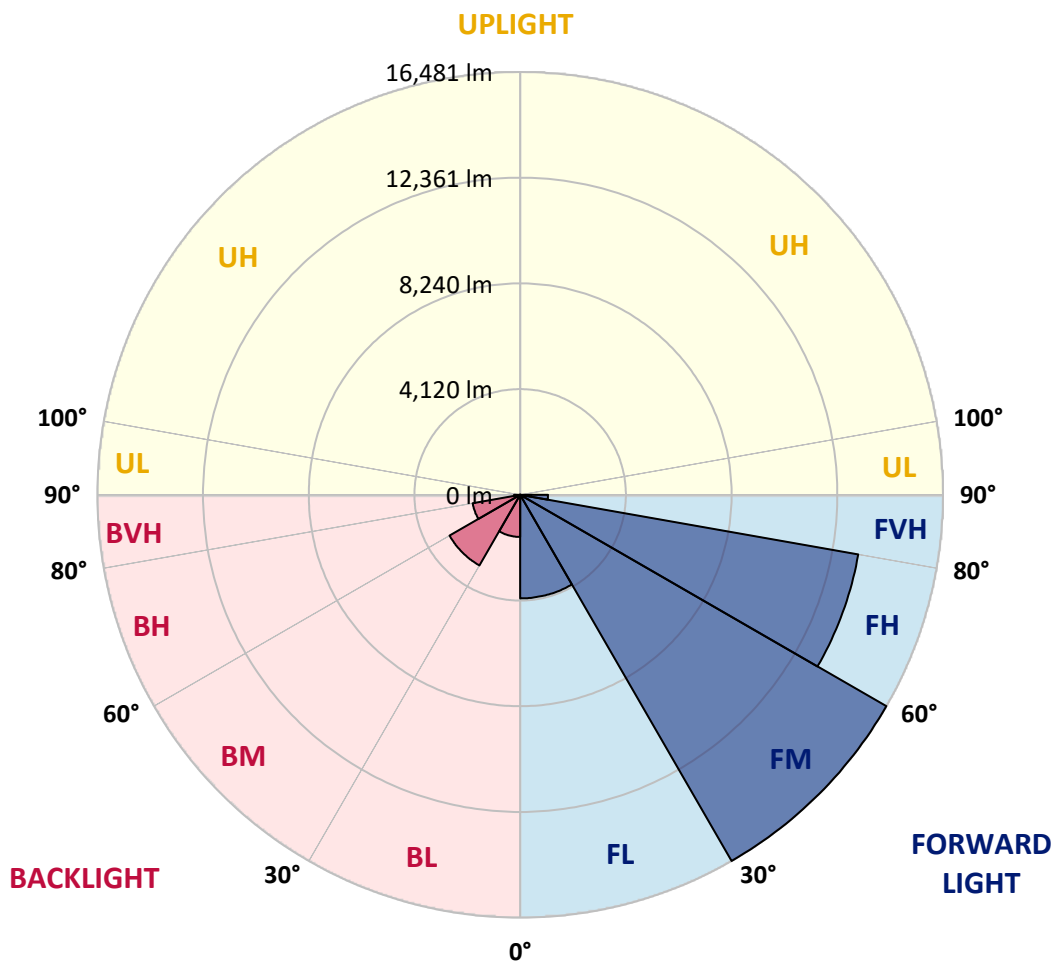
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4037.1	9.6			
FM	(30°-60°)	16480.7	39.3			
FH	(60°-80°)	13380.7	31.9			G5
FVH	(80°-90°)	1087.6	2.6			G5
BL	(0°-30°)	1641.4	3.9	B3/2500		
BM	(30°-60°)	3178.9	7.6	B3/5000		
BH	(60°-80°)	1880.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	236.7	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°	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2
2.5°	14717.3	14952.4	15411.0	15754.4	16171.5	16268.3	16402.0	16270.6	16037.8	15729.0	15627.6
5°	13839.2	14341.6	15454.8	16434.2	17305.4	17711.0	17823.9	17489.8	16814.5	15927.2	15385.6
7.5°	12431.1	13145.5	14652.8	16095.5	17379.1	18137.3	18118.9	17342.3	16100.1	14655.1	13786.2
10°	11216.6	12032.4	13760.9	15374.1	16736.1	17471.3	17187.8	16194.6	14712.7	13048.8	12106.2
12.5°	10536.7	11336.4	13090.2	14710.4	15848.9	16102.4	15885.7	14913.2	13516.6	11834.2	11009.2
15°	10419.2	11297.2	12822.9	14141.1	14779.5	14558.3	14300.2	13864.6	12878.2	11442.4	10582.8
17.5°	10928.5	11896.4	13129.4	13744.7	13636.4	13251.6	13177.8	13226.2	12988.8	11878.0	10887.0
20°	11905.7	13067.2	13860.0	13558.1	12767.6	12237.5	12256.0	12995.7	13698.7	12981.9	11850.3
22.5°	13276.9	14602.1	14913.2	13657.2	12401.2	11772.0	11924.1	13122.5	14830.2	14595.1	13150.2
25°	15051.5	16259.1	16035.5	14016.7	12438.0	11829.6	11951.8	13560.4	16166.9	16208.4	14758.8
27.5°	16770.7	17890.8	16978.1	14493.7	12590.1	11965.6	12126.9	14249.5	17443.7	17959.9	16597.9
30°	18112.0	18891.0	17351.5	14929.3	12889.7	12230.6	12431.1	14904.0	18024.4	19142.2	18012.9
32.5°	19222.8	19782.8	17946.1	15468.6	13440.5	12647.7	13000.4	15699.1	18861.0	20266.8	19398.0
35°	20642.5	20801.5	18685.8	16070.1	14290.9	13373.7	13811.6	16478.0	19658.4	21403.0	20762.3
37.5°	22306.4	22101.3	19384.1	16892.9	15390.2	14509.9	14871.7	17333.0	20315.2	22691.3	22156.6
40°	23951.9	23458.7	20259.9	18169.6	16994.3	15848.9	16277.5	18245.7	20928.2	23981.9	23518.6
42.5°	25350.8	24620.2	21124.1	19573.1	18487.6	17326.1	17837.7	19165.2	21513.6	25083.5	24700.9
45°	26385.6	25477.6	21946.9	20921.3	20545.7	19289.7	19531.6	20218.4	22147.4	26003.0	25673.5
47.5°	27309.7	26339.5	22877.9	22281.1	22345.6	21843.2	21453.7	21444.5	22894.1	26754.3	26593.0
50°	28547.3	27535.6	23878.2	23682.3	25046.6	24712.4	23852.8	22875.6	23839.0	27607.0	27588.6
52.5°	30252.7	29430.0	25099.6	25191.8	27567.8	27786.8	26722.1	24594.9	25318.5	29171.9	29061.2
55°	32269.3	31789.9	26763.5	26927.2	30660.6	30817.4	29759.5	26745.1	27494.1	31437.3	31130.8
57.5°	33843.3	33741.9	28588.8	29010.5	32969.9	33675.1	32702.5	29234.1	29946.2	33345.5	32575.8
60°	34470.2	34961.1	30531.6	31112.4	35106.3	35887.5	35034.8	31421.2	32119.5	34136.0	32476.7
62.5°	34131.4	35228.4	32601.1	32552.7	35583.3	36424.5	35825.3	32638.0	33730.4	33320.2	30833.5
65°	32566.6	34267.4	33801.8	32181.7	33951.6	34020.8	33827.2	32094.1	34110.7	30741.3	27657.7
67.5°	29158.0	31605.5	32220.9	29001.3	29549.8	29100.4	28775.5	29116.6	32128.7	26876.5	23244.4
70°	23749.1	27431.9	27726.9	23196.0	22947.1	22645.2	21997.6	23871.2	28217.7	22027.5	18443.9
72.5°	17462.1	21333.9	22239.6	17012.7	15860.4	15922.6	15411.0	17989.9	22942.5	16362.8	13770.1
75°	11947.1	15447.9	17399.9	11871.1	10488.3	10513.7	10449.1	12746.8	18273.3	11382.5	10303.9
77.5°	8727.6	11036.8	13122.5	7980.9	7748.1	7605.2	7570.7	8918.9	14009.8	8264.4	8001.6
80°	7003.7	8153.7	8815.2	5531.1	5948.2	5936.7	5745.4	6132.6	9149.3	6045.0	5985.1
82.5°	4858.1	6266.3	7142.0	4335.0	4014.6	3947.8	3993.9	4567.8	6466.8	4132.2	3929.4
85°	2562.7	4162.1	7072.9	3841.8	2383.0	1901.3	2364.5	3740.4	5602.5	2189.4	1917.4
87.5°	327.3	1203.0	4683.0	1532.6	940.3	507.0	1122.3	2106.4	3597.5	447.1	389.5
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°	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2
2.5°	15367.2	15060.7	14659.7	14288.6	13903.8	13521.2	13021.1	12707.7	12491.0	12449.5	12357.4
5°	14993.8	13975.2	13205.5	12539.4	11935.6	11082.9	10610.5	10218.7	10009.0	9988.2	9937.5
7.5°	13272.3	11866.5	10827.1	9884.5	9029.5	8340.4	7579.9	7225.0	7079.8	7114.4	7148.9
10°	11481.6	9909.9	8716.1	7752.7	6999.1	6418.4	5807.6	5395.1	5109.3	5051.7	5040.2
12.5°	10172.6	8448.7	7289.5	6609.6	6026.6	5480.4	4832.8	4346.5	3975.5	3848.7	3763.4
15°	9619.5	7734.3	6519.8	5786.9	5143.9	4450.2	3848.7	3339.4	2998.3	2887.7	2825.5
17.5°	9737.0	7536.1	5989.7	5051.7	4229.0	3505.3	2747.1	2311.5	2106.4	2053.4	2053.4
20°	10354.7	7499.2	5551.8	4374.2	3348.6	2509.7	1887.5	1638.6	1571.7	1564.8	1583.3
22.5°	11221.2	7628.3	5224.6	3786.5	2601.9	1832.2	1470.3	1378.2	1348.2	1355.1	1375.9
25°	12511.8	8063.9	4987.2	3263.3	2041.9	1500.3	1311.3	1256.0	1242.2	1260.6	1286.0
27.5°	14042.0	8499.4	4839.7	2869.3	1723.9	1371.2	1246.8	1189.2	1198.4	1221.4	1244.5
30°	15385.6	8856.6	4606.9	2588.1	1624.8	1378.2	1246.8	1168.4	1159.2	1163.8	1170.7
32.5°	16590.9	9098.6	4335.0	2320.8	1401.2	1223.8	1163.8	1152.3	1101.6	1083.2	1085.5
35°	17630.3	9098.6	4171.4	2164.0	1256.0	1085.5	988.7	931.1	905.7	908.0	933.4
37.5°	18632.8	8916.6	4090.7	2076.5	1177.7	1032.5	947.2	896.5	861.9	855.0	859.6
40°	19517.8	8651.5	3998.5	2039.6	1117.7	1000.2	919.5	878.1	841.2	829.7	832.0
42.5°	20227.6	8437.2	3897.1	1991.2	1080.9	977.2	901.1	864.2	822.7	811.2	808.9
45°	20995.1	8365.8	3763.4	1894.4	1099.3	979.5	896.5	857.3	815.8	802.0	797.4
47.5°	22006.8	8589.3	3625.2	1779.2	1138.5	991.0	903.4	857.3	813.5	802.0	797.4
50°	23281.3	9114.8	3450.0	1610.9	1099.3	1023.3	901.1	850.4	813.5	802.0	792.8
52.5°	24917.5	9824.6	3219.6	1417.3	1076.3	1101.6	896.5	836.6	802.0	785.9	769.7
55°	26906.4	10405.4	2945.3	1258.3	1023.3	1080.9	889.6	820.4	783.6	760.5	746.7
57.5°	28362.9	10615.1	2592.7	1154.6	949.5	1046.3	880.4	799.7	760.5	742.1	723.7
60°	28074.9	10209.5	2295.4	1090.1	905.7	944.9	873.5	781.3	739.8	726.0	709.8
62.5°	25767.9	9149.3	2104.1	1060.1	878.1	861.9	880.4	762.8	721.3	707.5	702.9
65°	22308.7	7584.5	2028.1	1053.2	855.0	813.5	818.1	742.1	700.6	689.1	684.5
67.5°	18402.4	6121.1	1961.2	1076.3	825.1	779.0	755.9	714.4	679.9	668.3	659.1
70°	14512.2	5090.9	1931.3	1062.4	788.2	744.4	719.0	684.5	654.5	643.0	636.1
72.5°	11686.7	4300.4	1915.1	1048.6	739.8	698.3	675.3	645.3	613.0	608.4	601.5
75°	9889.1	3380.9	1753.8	1004.8	684.5	643.0	626.9	599.2	566.9	566.9	562.3
77.5°	7628.3	2445.2	1458.8	889.6	626.9	580.8	566.9	546.2	509.3	516.2	513.9
80°	5634.8	1594.8	1140.8	737.5	555.4	511.6	504.7	484.0	444.8	454.0	454.0
82.5°	3860.2	1046.3	820.4	603.8	474.8	433.3	433.3	412.5	368.7	373.3	387.2
85°	1938.2	719.0	613.0	467.8	368.7	348.0	348.0	331.9	288.1	290.4	308.8
87.5°	590.0	433.3	405.6	334.2	265.0	260.4	248.9	237.4	209.7	207.4	218.9
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°	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2
2.5°	12216.8	12085.4	11926.4	11576.1	11458.6	11451.6	11557.7	11447.0	11659.1	11569.2	11668.3
5°	9852.2	9723.2	9545.7	9098.6	8826.7	8642.3	8554.7	8296.6	8483.3	8347.3	8460.3
7.5°	7245.7	7275.7	7158.1	6895.4	6303.1	6005.8	5830.7	5674.0	5809.9	5796.1	6012.7
10°	5093.2	5173.9	5090.9	4825.9	4346.5	4182.9	4215.1	4277.4	4454.8	4547.0	4881.2
12.5°	3666.6	3662.0	3609.0	3371.7	3055.9	3074.4	3205.7	3314.0	3477.7	3574.5	3915.5
15°	2737.9	2696.4	2673.4	2479.8	2300.0	2339.2	2403.7	2415.2	2518.9	2576.6	2853.1
17.5°	2069.5	2090.3	2115.6	1977.4	1841.4	1816.0	1765.3	1703.1	1733.1	1744.6	1882.9
20°	1643.2	1726.2	1788.4	1691.6	1553.3	1479.6	1415.0	1373.6	1373.6	1371.2	1410.4
22.5°	1435.8	1495.7	1562.5	1495.7	1371.2	1306.7	1269.8	1237.6	1233.0	1233.0	1269.8
25°	1322.9	1366.6	1431.2	1385.1	1292.9	1244.5	1209.9	1168.4	1152.3	1147.7	1173.1
27.5°	1267.5	1286.0	1318.2	1276.8	1198.4	1175.4	1166.1	1129.3	1108.5	1097.0	1122.3
30°	1173.1	1168.4	1170.7	1129.3	1067.0	1064.7	1080.9	1087.8	1080.9	1078.6	1117.7
32.5°	1085.5	1076.3	1074.0	1037.1	979.5	965.6	979.5	993.3	1009.4	1032.5	1078.6
35°	974.9	997.9	1011.7	979.5	910.3	868.8	852.7	827.4	813.5	813.5	866.5
37.5°	887.3	940.3	961.0	931.1	855.0	797.4	769.7	765.1	767.4	776.7	827.4
40°	857.3	896.5	914.9	885.0	808.9	755.9	739.8	735.2	739.8	753.6	804.3
42.5°	838.9	866.5	864.2	827.4	765.1	728.3	719.0	714.4	719.0	732.9	788.2
45°	822.7	841.2	822.7	779.0	721.3	702.9	705.2	702.9	707.5	721.3	774.4
47.5°	808.9	815.8	792.8	749.0	689.1	684.5	693.7	700.6	705.2	716.7	772.0
50°	788.2	788.2	767.4	721.3	661.4	663.7	675.3	691.4	693.7	707.5	751.3
52.5°	762.8	760.5	746.7	702.9	638.4	645.3	645.3	663.7	668.3	684.5	730.6
55°	742.1	737.5	730.6	689.1	617.6	629.2	622.2	629.2	640.7	656.8	707.5
57.5°	723.7	714.4	714.4	677.6	601.5	606.1	590.0	599.2	613.0	626.9	679.9
60°	705.2	696.0	700.6	661.4	576.2	571.5	564.6	583.1	587.7	603.8	656.8
62.5°	684.5	677.6	679.9	643.0	557.7	546.2	546.2	562.3	564.6	587.7	638.4
65°	668.3	659.1	656.8	624.6	537.0	523.1	530.1	537.0	541.6	564.6	613.0
67.5°	652.2	633.8	633.8	608.4	513.9	500.1	513.9	511.6	518.5	539.3	578.5
70°	631.5	606.1	608.4	596.9	490.9	474.8	486.3	484.0	488.6	502.4	541.6
72.5°	599.2	578.5	583.1	578.5	467.8	444.8	449.4	449.4	449.4	460.9	502.4
75°	557.7	541.6	555.4	566.9	440.2	407.9	412.5	412.5	405.6	412.5	463.2
77.5°	507.0	497.8	543.9	527.8	407.9	368.7	368.7	364.1	350.3	359.5	414.8
80°	451.7	444.8	502.4	442.5	371.0	320.3	315.7	304.2	290.4	297.3	352.6
82.5°	394.1	387.2	421.7	338.8	320.3	265.0	253.5	232.8	218.9	225.9	276.6
85°	322.6	322.6	325.0	255.8	244.3	202.8	189.0	161.3	145.2	149.8	198.2
87.5°	230.5	237.4	218.9	175.2	145.2	112.9	103.7	87.6	73.7	85.3	103.7
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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CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2
2.5°	12175.3	12428.8	12716.9	13085.6	13401.4	13919.9	14417.7	14717.3
5°	9103.2	9525.0	10050.4	10725.7	11354.9	12299.7	13237.7	13839.2
7.5°	6515.2	6966.9	7533.8	8377.3	9266.9	10472.2	11712.1	12431.1
10°	5390.5	5853.7	6330.8	6900.0	7628.3	8939.6	10405.4	11216.6
12.5°	4459.4	4954.9	5468.9	6068.1	6743.3	7914.1	9603.3	10536.7
15°	3413.1	3966.2	4572.4	5330.6	6176.4	7529.2	9405.1	10419.2
17.5°	2339.2	2956.8	3701.2	4636.9	5671.7	7404.7	9760.1	10928.5
20°	1610.9	2060.3	2855.4	3952.4	5196.9	7388.6	10442.2	11905.7
22.5°	1348.2	1548.7	2129.5	3323.3	4839.7	7586.8	11500.0	13276.9
25°	1246.8	1366.6	1700.8	2777.1	4579.3	8043.1	12956.6	15051.5
27.5°	1186.9	1295.2	1544.1	2419.8	4374.2	8573.2	14373.9	16770.7
30°	1209.9	1320.5	1500.3	2237.8	4095.3	9015.7	15632.2	18112.0
32.5°	1090.1	1138.5	1286.0	2076.5	3894.8	9386.7	16733.8	19222.8
35°	928.8	1014.0	1147.7	2000.4	3899.4	9635.6	17934.5	20642.5
37.5°	885.0	970.2	1067.0	1972.8	3952.4	9900.6	19312.7	22306.4
40°	857.3	935.7	1018.6	1956.6	4003.1	10142.6	20663.2	23951.9
42.5°	838.9	910.3	1014.0	1901.3	4028.5	10359.3	21774.0	25350.8
45°	836.6	910.3	1032.5	1846.0	4067.7	10592.0	22705.1	26385.6
47.5°	838.9	940.3	997.9	1779.2	4067.7	10981.5	23797.5	27309.7
50°	829.7	991.0	961.0	1684.7	3973.2	11719.0	25295.5	28547.3
52.5°	825.1	984.1	889.6	1539.5	3809.5	12889.7	27215.2	30252.7
55°	813.5	949.5	838.9	1322.9	3618.3	14166.5	29271.0	32269.3
57.5°	802.0	841.2	811.2	1133.9	3323.3	15065.3	30686.0	33843.3
60°	898.8	735.2	788.2	1041.7	2929.2	15311.9	30630.7	34470.2
62.5°	832.0	689.1	758.2	1020.9	2652.6	14620.5	29215.6	34131.4
65°	652.2	659.1	728.3	1080.9	2578.9	12788.3	26708.2	32566.6
67.5°	596.9	629.2	698.3	1156.9	2585.8	10239.4	22960.9	29158.0
70°	562.3	596.9	663.7	1196.1	2604.2	7632.9	18153.5	23749.1
72.5°	523.1	553.1	624.6	1203.0	2484.4	5544.9	13991.3	17462.1
75°	477.1	504.7	569.2	1048.6	2058.0	3846.4	10702.6	11947.1
77.5°	424.0	444.8	500.1	808.9	1528.0	2461.3	8033.9	8727.6
80°	361.8	373.3	419.4	592.3	1046.3	1539.5	6356.1	7003.7
82.5°	290.4	295.0	325.0	444.8	679.9	988.7	4256.6	4858.1
85°	205.1	205.1	223.5	322.6	463.2	626.9	2311.5	2562.7
87.5°	96.8	99.1	99.1	177.5	242.0	318.0	532.4	327.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)