

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: P191338

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191338
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-10-LED-E1-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52965.3 lumens
Efficiency: N/A
Efficacy: 94.9 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): 558
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

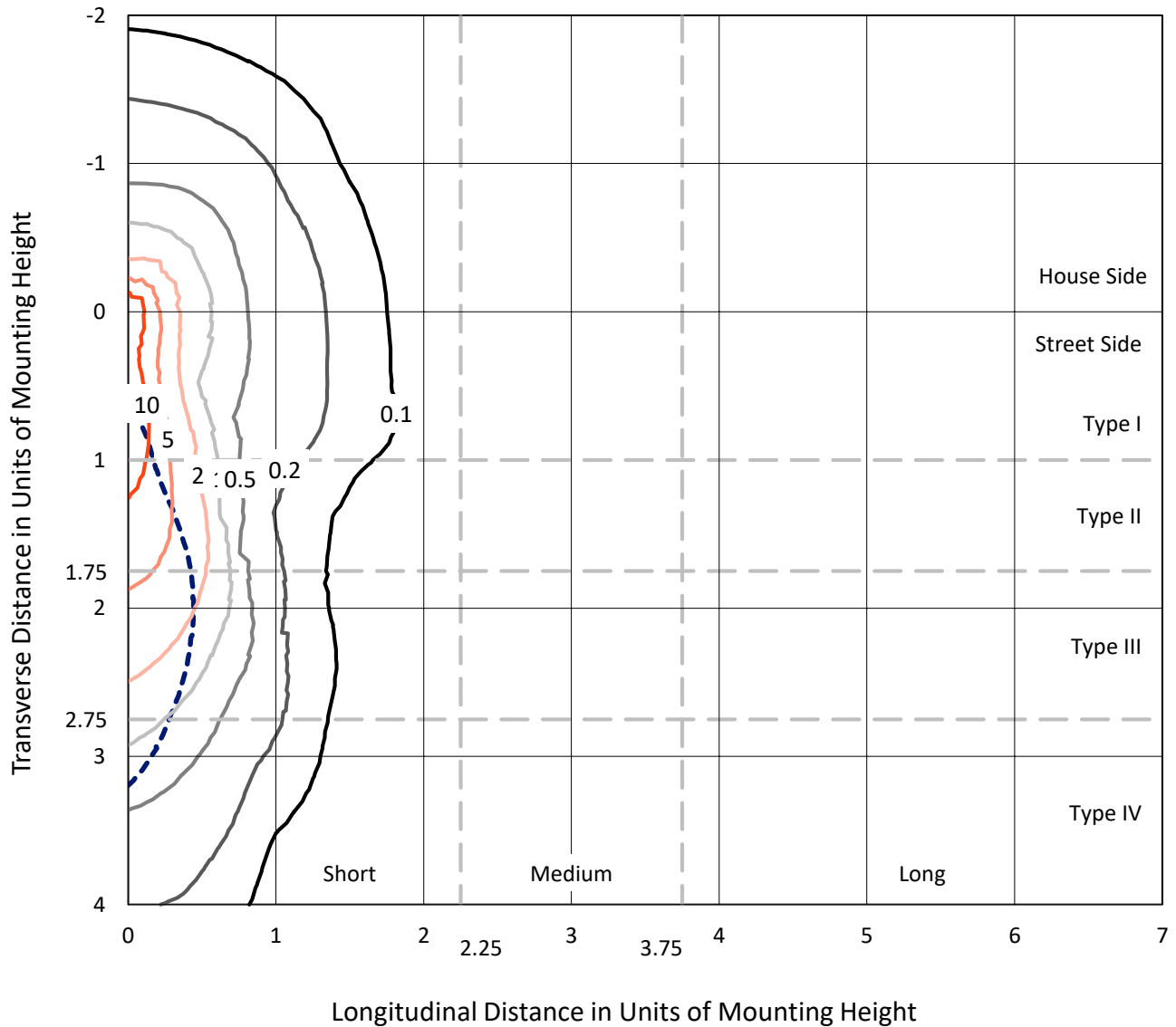


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

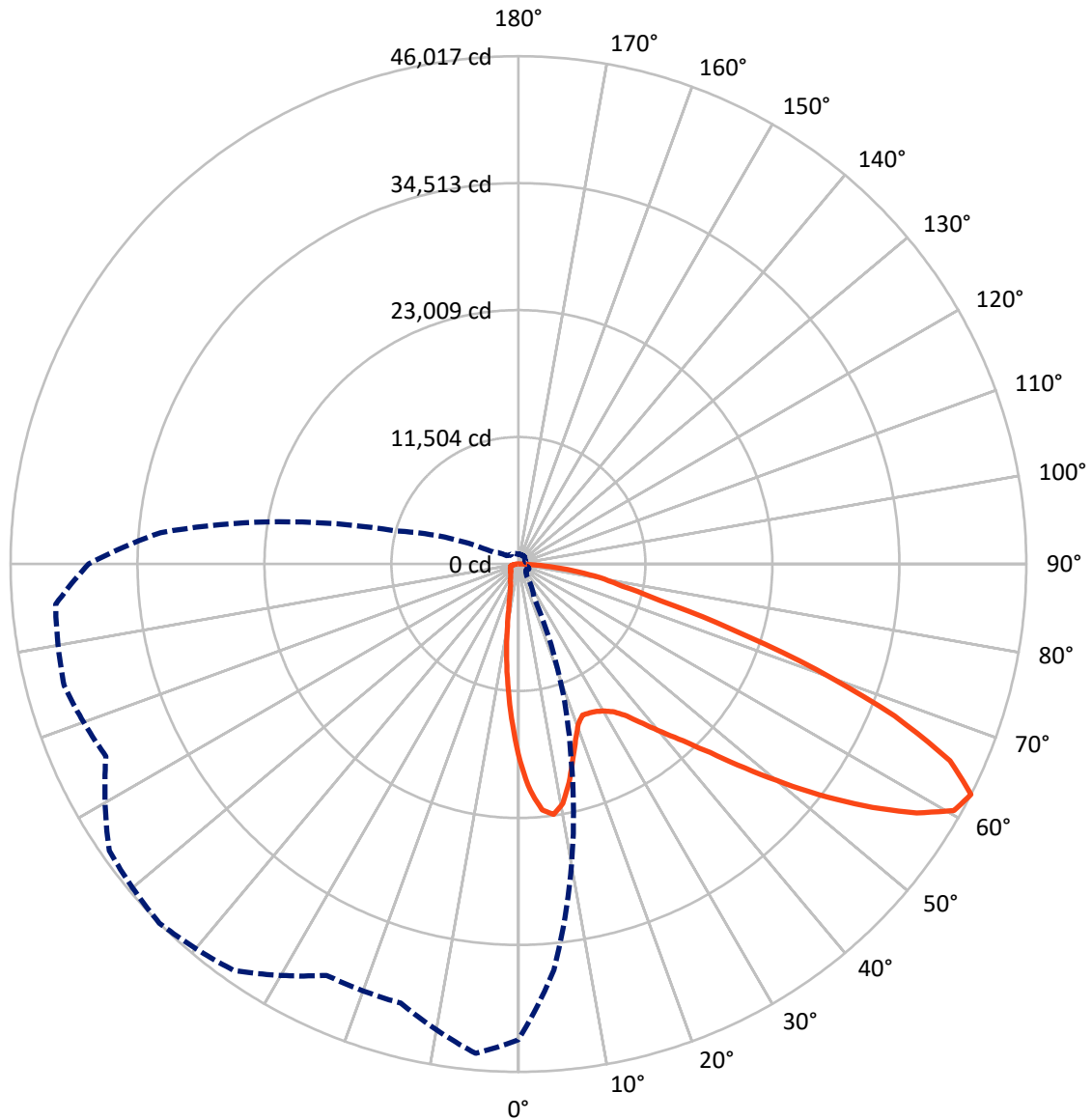


Based on 30 foot mounting height. Maximum calculated value = 19.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8765.0	0.0	8765.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	44200.3	0.0	44200.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	52965.3	0.0	52965.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1302.6	2.5
10°-20°	2388.7	4.5
20°-30°	3482.7	6.6
30°-40°	5363.9	10.1
40°-50°	7894.2	14.9
50°-60°	11579.1	21.9
60°-70°	12943.8	24.4
70°-80°	6337.1	12.0
80°-90°	1673.2	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°	52965.3	100.0
0°-180°	52965.3	100.0



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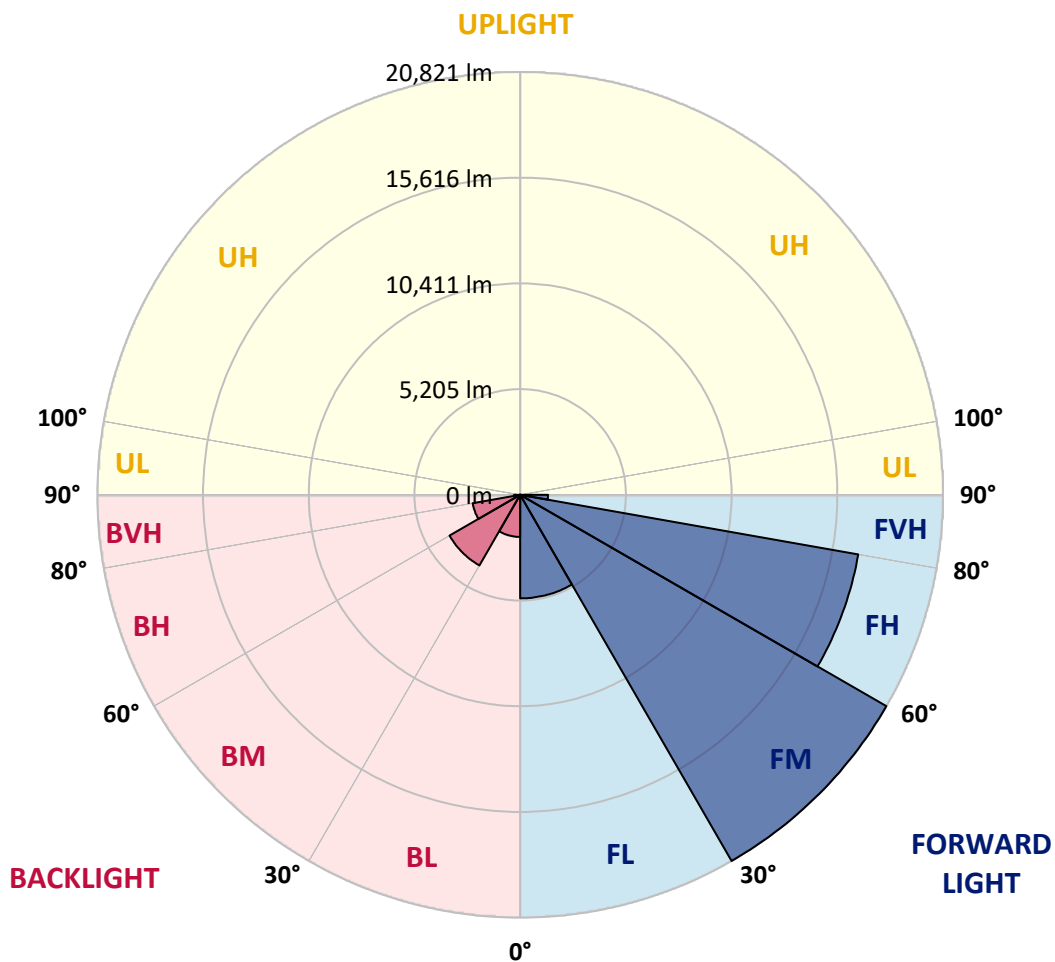
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5100.4	9.6			
FM (30°-60°)	20821.1	39.3			
FH (60°-80°)	16904.7	31.9			G5
FVH (80°-90°)	1374.1	2.6			G5
BL (0°-30°)	2073.7	3.9	B3/2500		
BM (30°-60°)	4016.1	7.6	B3/5000		
BH (60°-80°)	2376.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	299.1	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°	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6
2.5°	18593.4	18214.8	17586.0	16930.9	16531.9	16066.1	15702.1	15381.8	14741.3	14616.1	14729.7
5°	17484.0	16724.1	15539.0	14345.4	13550.5	12697.4	12033.6	11500.7	10688.4	10545.7	10717.6
7.5°	15705.1	14796.6	13230.2	11707.5	10583.6	9517.9	8801.7	8231.1	7596.3	7322.6	7340.1
10°	14170.6	13145.7	11294.0	9637.3	8717.3	7998.1	7395.4	6810.2	6166.8	5744.6	5628.1
12.5°	13311.8	12132.5	9998.3	8519.2	7666.2	6909.2	6259.8	5633.9	4946.8	4515.8	4393.6
15°	13163.2	11882.2	9512.1	7803.1	6734.5	5776.6	5010.8	4312.0	3604.6	3255.1	3182.4
17.5°	13806.7	12330.5	9354.9	7165.4	5858.1	4676.0	3735.5	2955.2	2378.8	2204.0	2189.5
20°	15041.2	13192.4	9334.5	6565.6	4993.3	3607.4	2602.9	2035.2	1781.9	1732.4	1735.3
22.5°	16773.6	14528.8	9584.9	6114.3	4198.5	2690.3	1956.6	1703.3	1604.3	1557.6	1557.6
25°	19015.5	16368.8	10161.4	5785.3	3508.4	2148.7	1726.5	1575.1	1481.9	1449.9	1455.8
27.5°	21187.6	18159.5	10831.1	5526.2	3057.2	1950.8	1636.3	1499.4	1417.9	1385.9	1400.4
30°	22882.1	19749.2	11390.0	5173.9	2827.1	1895.4	1668.3	1528.6	1412.1	1362.6	1365.5
32.5°	24285.5	21140.9	11858.9	4920.6	2623.4	1624.7	1438.3	1377.2	1362.6	1304.4	1275.3
35°	26079.0	22657.8	12173.3	4926.4	2527.2	1449.9	1281.1	1173.3	1094.8	1027.8	1027.8
37.5°	28181.2	24399.0	12508.1	4993.3	2492.3	1348.0	1225.8	1118.1	1045.3	981.2	969.6
40°	30260.0	26105.2	12813.9	5057.4	2472.0	1286.9	1182.1	1083.1	1016.1	952.1	934.6
42.5°	32027.4	27508.6	13087.5	5089.4	2402.1	1281.1	1150.1	1059.8	995.7	925.9	908.4
45°	33334.6	28684.9	13381.6	5138.9	2332.1	1304.4	1150.1	1056.9	978.2	911.3	893.9
47.5°	34502.2	30064.9	13873.7	5138.9	2247.7	1260.7	1188.0	1059.8	975.4	905.5	891.0
50°	36065.7	31957.5	14805.4	5019.5	2128.4	1214.1	1252.0	1048.2	949.2	893.9	876.4
52.5°	38220.2	34382.8	16284.5	4812.9	1944.9	1123.9	1243.2	1042.4	923.0	864.7	844.3
55°	40767.9	36979.9	17897.4	4571.2	1671.2	1059.8	1199.6	1027.8	893.9	829.8	809.5
57.5°	42756.5	38767.6	19032.9	4198.5	1432.5	1024.9	1062.7	1013.2	858.9	792.0	774.5
60°	43548.4	38697.7	19344.5	3700.6	1316.0	995.7	928.8	1135.5	829.8	762.8	742.5
62.5°	43120.4	36910.0	18471.0	3351.2	1289.8	957.9	870.5	1051.1	806.5	742.5	713.3
65°	41143.5	33742.2	16156.3	3258.1	1365.5	920.0	832.7	824.0	774.5	713.3	684.3
67.5°	36837.3	29008.0	12936.1	3266.8	1461.6	882.2	794.8	754.1	730.8	681.3	655.1
70°	30003.8	22934.5	9643.2	3290.1	1511.1	838.5	754.1	710.4	684.3	634.7	617.2
72.5°	22061.0	17676.2	7005.3	3138.7	1519.8	789.0	698.8	660.9	634.7	582.4	567.7
75°	15093.6	13521.4	4859.4	2600.0	1324.7	719.1	637.6	602.7	585.2	521.2	512.4
77.5°	11026.2	10149.7	3109.6	1930.4	1021.9	631.8	561.9	535.7	524.1	454.2	442.5
80°	8848.3	8030.2	1944.9	1321.9	748.3	529.9	471.7	457.2	445.5	375.6	366.8
82.5°	6137.6	5377.7	1249.0	858.9	561.9	410.5	372.7	366.8	349.4	285.3	276.6
85°	3237.6	2920.3	792.0	585.2	407.6	282.4	259.1	259.1	250.4	189.2	183.4
87.5°	413.5	672.6	401.8	305.8	224.2	125.2	125.2	122.2	131.0	107.7	93.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6
2.5°	14461.8	14601.5	14467.6	14476.4	14624.8	15067.3	15268.3	15434.3	15611.9	15728.3	15780.8
5°	10481.7	10807.8	10918.4	11151.3	11494.9	12059.8	12283.9	12447.0	12554.7	12618.8	12645.0
7.5°	7168.3	7366.3	7587.5	7963.2	8711.4	9043.4	9191.8	9154.0	9031.7	8988.1	8944.4
10°	5403.8	5325.3	5284.5	5491.2	6096.8	6431.7	6536.5	6434.6	6367.7	6382.2	6454.9
12.5°	4186.8	4050.0	3884.0	3860.7	4259.7	4559.5	4626.5	4632.3	4754.6	4862.3	5022.5
15°	3051.4	3036.7	2955.2	2905.8	3132.9	3377.5	3406.5	3458.9	3569.6	3648.3	3788.0
17.5°	2151.7	2230.2	2294.3	2326.4	2498.1	2672.9	2640.7	2614.6	2594.2	2594.2	2661.2
20°	1735.3	1787.7	1869.2	1962.4	2137.0	2259.4	2180.7	2076.0	2000.3	1977.0	1985.6
22.5°	1563.5	1604.3	1650.8	1732.4	1889.6	1974.1	1889.6	1813.9	1738.2	1712.0	1703.3
25°	1476.1	1528.6	1572.3	1633.3	1749.9	1808.1	1726.5	1671.2	1624.7	1592.6	1569.3
27.5°	1426.7	1473.3	1484.9	1514.1	1613.0	1665.5	1624.7	1601.3	1572.3	1543.1	1514.1
30°	1374.2	1365.5	1345.2	1348.0	1426.7	1479.1	1476.1	1481.9	1479.1	1470.4	1464.6
32.5°	1254.9	1237.5	1220.0	1237.5	1310.2	1356.8	1359.7	1371.4	1371.4	1368.4	1391.7
35°	1045.3	1077.3	1097.6	1150.1	1237.5	1278.2	1260.7	1231.6	1179.2	1147.1	1144.3
37.5°	966.7	972.4	1007.4	1080.2	1176.3	1214.1	1188.0	1120.9	1086.1	1080.2	1088.9
40°	928.8	934.6	955.0	1021.9	1118.1	1155.9	1132.6	1083.1	1051.1	1048.2	1062.7
42.5°	902.5	908.4	920.0	966.7	1045.3	1091.8	1094.8	1059.8	1021.9	1024.9	1039.4
45°	888.0	891.0	888.0	911.3	984.1	1039.4	1062.7	1039.4	1007.4	1013.2	1030.7
47.5°	885.2	876.4	864.7	870.5	946.2	1001.6	1030.7	1021.9	1007.4	1013.2	1027.8
50°	873.5	853.1	838.5	835.6	911.3	969.6	995.7	995.7	1001.6	1013.2	1027.8
52.5°	838.5	815.3	815.3	806.5	888.0	943.4	960.9	963.7	972.4	992.9	1013.2
55°	794.8	786.1	794.8	780.3	870.5	923.0	931.7	937.5	943.4	960.9	989.9
57.5°	757.0	745.3	765.8	760.0	856.0	902.5	902.5	914.2	914.2	937.5	960.9
60°	736.6	713.3	722.1	727.9	835.6	885.2	879.3	891.0	896.7	917.2	934.6
62.5°	710.4	690.1	690.1	704.6	812.3	858.9	856.0	864.7	888.0	893.9	911.3
65°	678.4	669.6	660.9	678.4	789.0	829.8	832.7	844.3	864.7	870.5	885.2
67.5°	646.4	649.3	631.8	649.3	768.6	800.7	800.7	824.0	832.7	844.3	858.9
70°	611.4	614.4	599.8	620.2	754.1	768.6	765.8	797.8	803.6	812.3	826.9
72.5°	567.7	567.7	561.9	591.1	730.8	736.6	730.8	757.0	760.0	768.6	774.5
75°	521.2	521.2	515.4	556.1	716.3	701.6	684.3	704.6	710.4	716.3	716.3
77.5°	460.0	465.9	465.9	515.4	666.8	687.1	628.9	640.6	649.3	652.2	643.4
80°	384.3	398.8	404.7	468.7	559.0	634.7	561.9	570.7	573.6	573.6	561.9
82.5°	294.1	320.3	334.8	404.7	428.0	532.9	489.2	497.9	489.2	471.7	465.9
85°	203.8	238.8	256.2	308.6	323.2	410.5	407.6	407.6	390.2	366.8	364.0
87.5°	110.7	131.0	142.7	183.4	221.3	276.6	299.9	291.1	276.6	262.1	264.9
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°	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6
2.5°	16054.4	16450.4	17082.3	17565.5	18051.8	18520.5	19027.2	19414.4	19743.4	19871.5	20261.7
5°	12909.9	13404.8	14001.7	15079.0	15841.9	16683.3	17655.8	18942.7	19437.7	20121.9	21242.8
7.5°	9127.8	9576.1	10537.0	11407.5	12487.8	13678.6	14991.7	16767.8	17417.1	18514.7	20340.3
10°	6816.0	7337.2	8108.7	8842.5	9794.5	11011.6	12519.8	14505.4	15294.5	16485.4	18587.5
12.5°	5491.2	6105.6	6923.7	7613.7	8350.3	9209.3	10673.9	12851.7	13908.6	14950.9	17076.4
15°	4218.9	4862.3	5622.2	6498.6	7310.9	8236.8	9771.2	12153.0	13370.0	14455.9	16269.9
17.5°	2920.3	3470.6	4428.5	5342.8	6382.2	7567.2	9520.8	12301.4	13754.3	15006.3	16409.7
20°	2070.1	2384.6	3170.7	4230.5	5526.2	7014.0	9474.3	13081.7	14971.3	16400.9	17306.4
22.5°	1741.2	1857.6	2314.7	3287.2	4783.7	6600.6	9637.3	14176.5	16613.4	18439.0	18736.0
25°	1586.8	1656.7	1895.4	2579.7	4122.8	6300.7	10187.6	15806.9	18645.7	20477.1	20424.7
27.5°	1502.4	1575.1	1732.4	2177.9	3624.9	6114.3	10737.9	17740.2	20969.2	22689.9	22037.7
30°	1476.1	1575.1	1741.2	2052.7	3269.7	5820.3	11189.1	19437.7	22756.9	24183.6	22771.4
32.5°	1455.8	1470.4	1546.1	1770.2	2932.0	5476.7	11494.9	20960.5	24506.7	25604.4	23828.3
35°	1176.3	1249.0	1371.4	1586.8	2733.9	5269.9	11494.9	22273.5	26230.4	27039.8	24835.7
37.5°	1132.6	1196.6	1304.4	1487.8	2623.4	5168.0	11264.8	23540.0	27991.9	28667.4	25665.5
40°	1109.3	1161.8	1263.7	1412.1	2576.7	5051.5	10930.0	24658.1	29712.6	30297.9	26440.0
42.5°	1091.8	1138.4	1234.5	1365.5	2515.6	4923.5	10659.2	25554.8	31206.2	31689.6	27179.6
45°	1083.1	1132.6	1237.5	1388.9	2393.3	4754.6	10569.0	26524.4	32434.9	32851.3	27980.3
47.5°	1083.1	1141.3	1252.0	1438.3	2247.7	4580.0	10851.5	27802.7	33596.7	33800.4	28923.6
50°	1074.4	1138.4	1292.7	1388.9	2035.2	4358.6	11515.3	29412.7	34854.5	34877.7	30117.3
52.5°	1056.9	1132.6	1391.7	1359.7	1790.6	4067.5	12412.1	31480.0	36714.9	36854.7	31986.5
55°	1036.6	1123.9	1365.5	1292.7	1589.8	3721.0	13145.7	33992.7	39329.6	39716.8	34735.1
57.5°	1010.3	1112.3	1321.9	1199.6	1458.7	3275.5	13410.7	35832.7	41155.2	42127.6	37833.0
60°	987.0	1103.5	1193.8	1144.3	1377.2	2900.0	12898.3	35468.8	41029.9	43126.3	40578.6
62.5°	963.7	1112.3	1088.9	1109.3	1339.3	2658.2	11558.9	32554.3	38954.0	42095.6	42613.8
65°	937.5	1033.6	1027.8	1080.2	1330.6	2562.2	9582.0	28184.0	34941.9	38837.5	43094.3
67.5°	902.5	955.0	984.1	1042.4	1359.7	2477.8	7733.1	23248.9	29366.2	33954.8	40590.3
70°	864.7	908.4	940.4	995.7	1342.2	2439.9	6431.7	18334.1	23301.3	27828.9	35649.3
72.5°	815.3	853.1	882.2	934.6	1324.7	2419.5	5433.0	14764.6	17396.7	20672.2	28984.7
75°	757.0	792.0	812.3	864.7	1269.5	2215.7	4271.3	12493.6	13017.7	14380.2	23085.9
77.5°	690.1	716.3	733.8	792.0	1123.9	1843.1	3089.2	9637.3	10109.0	10441.0	17699.5
80°	611.4	637.6	646.4	701.6	931.7	1441.2	2014.8	7118.8	7561.3	7637.0	11558.9
82.5°	521.2	547.4	547.4	599.8	762.8	1036.6	1321.9	4876.9	4964.3	5220.4	8169.9
85°	419.3	439.7	439.7	465.9	591.1	774.5	908.4	2448.6	2422.4	2766.0	7078.0
87.5°	299.9	314.5	329.0	334.8	422.2	512.4	547.4	745.3	492.0	564.9	4545.0
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: P191338

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6
2.5°	20555.7	20721.7	20552.8	20430.5	19903.6	19469.7	18890.3	18593.4
5°	22095.9	22518.1	22375.4	21863.0	20762.4	19525.1	18118.7	17484.0
7.5°	21909.6	22890.8	22914.1	21956.2	20334.4	18511.8	16607.6	15705.1
10°	20459.6	21714.5	22072.6	21143.9	19423.1	17385.0	15201.4	14170.6
12.5°	18840.8	20069.5	20343.2	20022.9	18584.6	16537.7	14322.0	13311.8
15°	17516.0	18066.3	18392.5	18671.9	17865.4	16200.0	14272.5	13163.2
17.5°	16709.5	16648.4	16741.5	17227.8	17364.6	16587.2	15029.5	13806.7
20°	16418.4	15483.8	15460.5	16130.1	17128.8	17510.3	16508.6	15041.2
22.5°	16578.6	15064.5	14872.4	15667.2	17254.0	18840.8	18447.7	16773.6
25°	17131.7	15099.5	14945.1	15713.8	17708.2	20258.7	20541.2	19015.5
27.5°	18002.3	15320.7	15116.9	15906.0	18310.9	21449.5	22602.5	21187.6
30°	18829.1	15705.1	15451.8	16284.5	18861.2	21921.2	23866.2	22882.1
32.5°	19833.7	16424.2	15978.7	16980.3	19542.5	22672.5	24992.9	24285.5
35°	20817.8	17449.1	16895.9	18054.7	20302.4	23607.0	26279.9	26079.0
37.5°	21898.0	18788.4	18331.3	19443.5	21341.8	24489.2	27922.0	28181.2
40°	23051.0	20564.5	20022.9	21470.0	22954.8	25595.7	29636.9	30260.0
42.5°	24212.6	22535.6	21889.2	23356.6	24728.0	26687.5	31104.4	32027.4
45°	25543.3	24675.6	24369.9	25956.7	26431.3	27726.9	32187.5	33334.6
47.5°	27092.2	27103.9	27595.9	28230.7	28149.2	28903.2	33276.4	34502.2
50°	28900.3	30134.8	31220.9	31643.0	29919.4	30166.8	34787.5	36065.7
52.5°	31072.3	33759.7	35104.9	34828.3	31826.5	31709.9	37180.8	38220.2
55°	33788.8	37597.1	38933.6	38735.6	34018.8	33812.1	40162.3	40767.9
57.5°	36933.3	41315.2	42543.9	41653.0	36650.9	36118.0	42628.4	42756.5
60°	39696.4	44261.8	45339.0	44352.0	39306.3	38572.5	44168.6	43548.4
62.5°	41233.7	45260.5	46017.4	44954.7	41126.0	41187.2	44506.3	43120.4
65°	40546.6	42736.1	42980.7	42893.4	40657.3	42704.1	43292.2	41143.5
67.5°	36784.8	36353.9	36764.4	37332.2	36639.2	40706.7	39929.4	36837.3
70°	30158.1	27791.0	28609.2	28990.5	29305.0	35029.1	34656.4	30003.8
72.5°	22727.7	19469.7	20116.0	20037.5	21493.2	28096.7	26952.4	22061.0
75°	16103.9	13201.1	13282.6	13250.6	14997.5	21982.4	19516.3	15093.6
77.5°	11267.8	9564.5	9608.2	9788.7	10082.8	16578.6	13943.5	11026.2
80°	7747.7	7258.6	7500.2	7514.8	6987.8	11136.8	10301.1	8848.3
82.5°	5770.8	5045.8	4987.5	5072.0	5476.7	9022.9	7916.6	6137.6
85°	4725.5	2987.3	2402.1	3010.5	4853.6	8935.6	5258.3	3237.6
87.5°	2661.2	1417.9	640.6	1188.0	1936.2	5916.3	1519.8	413.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)