

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: P191328

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191328
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA 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: 42792.1 lumens
Efficiency: N/A
Efficacy: 102.1 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

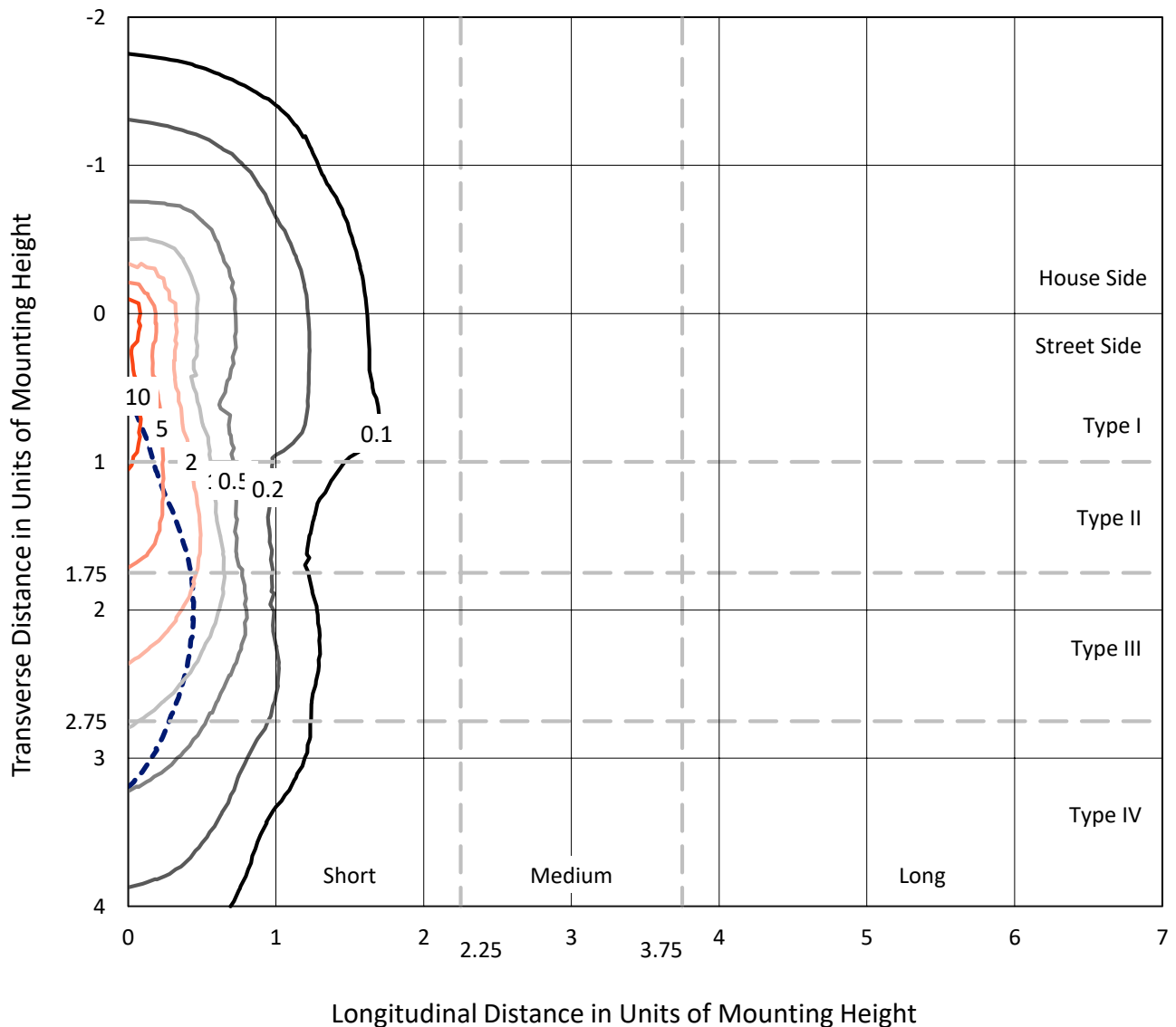
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

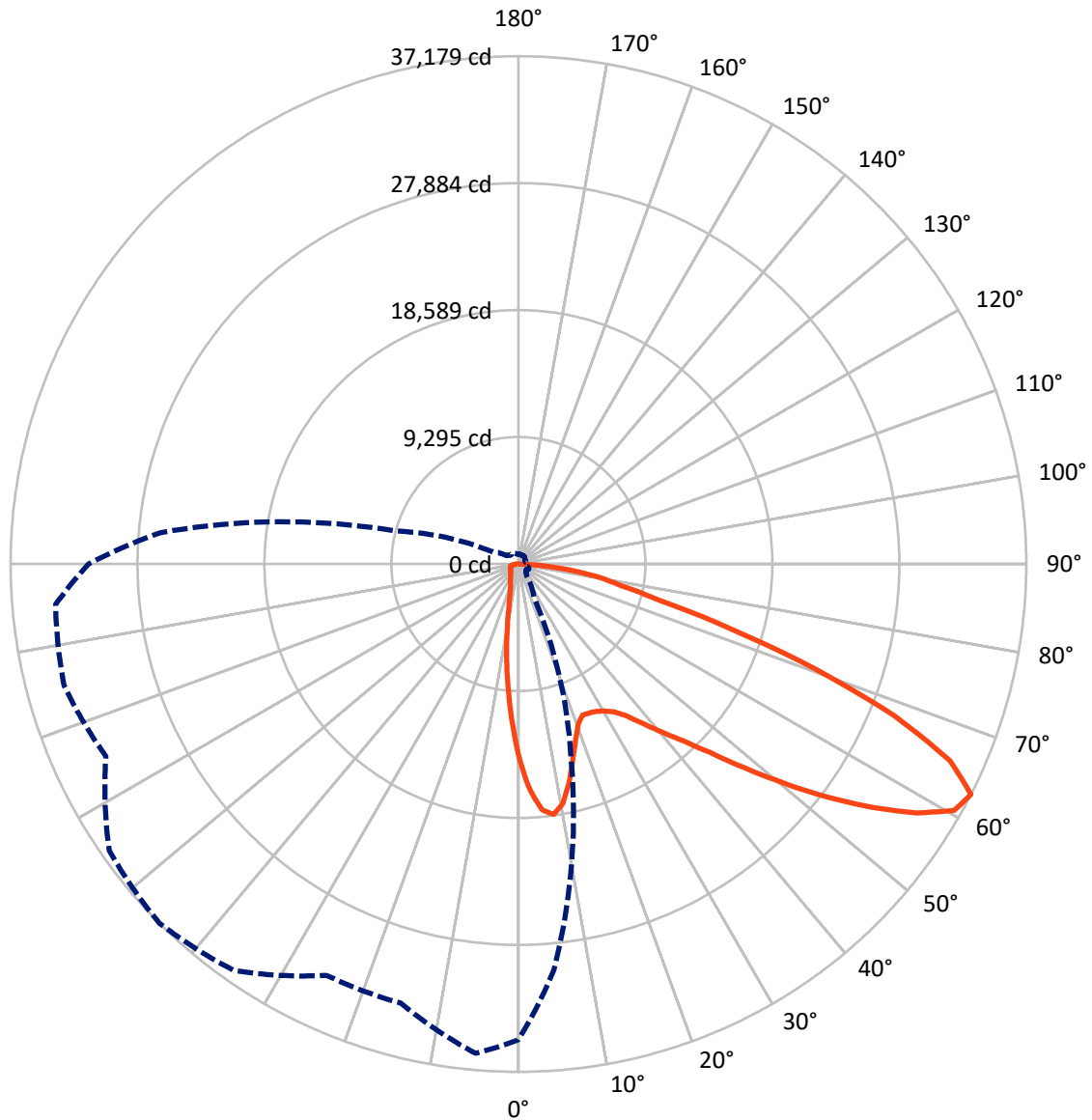


Based on 30 foot mounting height. Maximum calculated value = 16.1 fc
 Type IV - Short - Non-Cutoff

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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	7081.5	0.0	7081.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	35710.6	0.0	35710.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	42792.1	0.0	42792.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1052.4	2.5
10°-20°	1929.9	4.5
20°-30°	2813.8	6.6
30°-40°	4333.6	10.1
40°-50°	6377.9	14.9
50°-60°	9355.1	21.9
60°-70°	10457.6	24.4
70°-80°	5119.9	12.0
80°-90°	1351.8	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°	42792.1	100.0
0°-180°	42792.1	100.0



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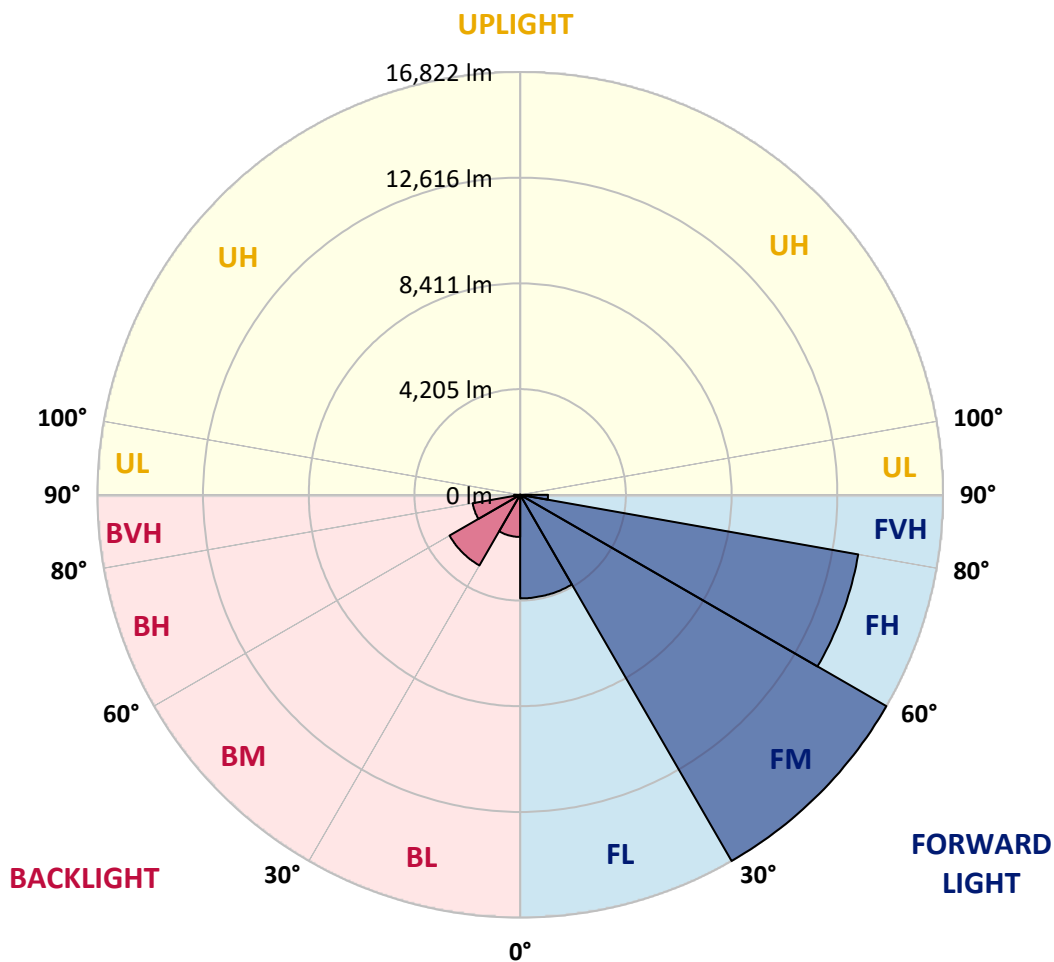
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4120.7	9.6			
FM	(30°-60°)	16821.9	39.3			
FH	(60°-80°)	13657.8	31.9			G5
FVH	(80°-90°)	1110.1	2.6			G5
BL	(0°-30°)	1675.4	3.9	B3/2500		
BM	(30°-60°)	3244.7	7.6	B3/5000		
BH	(60°-80°)	1919.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	241.6	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°	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5
2.5°	15022.0	14716.3	14208.1	13678.8	13356.6	12980.2	12686.1	12427.4	11909.9	11808.7	11900.5
5°	14125.8	13511.9	12554.5	11589.9	10947.8	10258.6	9722.2	9291.8	8635.4	8520.2	8659.0
7.5°	12688.5	11954.6	10689.0	9458.7	8550.7	7689.8	7111.1	6650.1	6137.3	5916.1	5930.3
10°	11448.9	10620.8	9124.7	7786.2	7042.9	6461.9	5975.0	5502.1	4982.3	4641.1	4547.1
12.5°	10754.9	9802.2	8077.9	6882.9	6193.7	5582.1	5057.6	4551.8	3996.7	3648.5	3549.6
15°	10634.9	9599.9	7685.1	6304.2	5441.0	4667.0	4048.3	3483.9	2912.2	2629.9	2571.1
17.5°	11154.8	9962.1	7558.1	5789.1	4732.9	3777.9	3018.0	2387.7	1921.8	1780.8	1769.0
20°	12152.1	10658.4	7541.6	5304.5	4034.2	2914.6	2103.0	1644.3	1439.6	1399.6	1402.0
22.5°	13551.8	11738.2	7743.9	4939.9	3392.1	2173.6	1580.8	1376.1	1296.2	1258.5	1258.5
25°	15363.1	13224.8	8209.7	4674.1	2834.6	1736.0	1394.9	1272.7	1197.4	1171.5	1176.2
27.5°	17118.0	14671.6	8750.7	4464.8	2469.9	1576.1	1322.1	1211.5	1145.6	1119.7	1131.5
30°	18487.1	15955.9	9202.4	4180.1	2284.1	1531.4	1347.8	1235.0	1140.9	1100.9	1103.3
32.5°	19620.8	17080.3	9581.1	3975.5	2119.5	1312.7	1162.1	1112.7	1100.9	1053.8	1030.3
35°	21069.9	18305.9	9835.2	3980.2	2041.8	1171.5	1035.0	948.0	884.4	830.3	830.3
37.5°	22768.3	19712.6	10105.6	4034.2	2013.6	1089.1	990.3	903.3	844.4	792.8	783.4
40°	24447.8	21091.1	10352.7	4086.0	1997.1	1039.7	955.0	875.0	820.9	769.3	755.1
42.5°	25875.7	22224.9	10573.7	4111.9	1940.6	1035.0	929.1	856.2	804.4	748.1	734.0
45°	26931.9	23175.3	10811.4	4151.9	1884.2	1053.8	929.1	853.9	790.4	736.3	722.2
47.5°	27875.2	24290.3	11208.9	4151.9	1816.0	1018.6	959.7	856.2	788.1	731.6	719.9
50°	29138.4	25819.3	11961.7	4055.4	1719.6	980.9	1011.5	846.8	766.9	722.2	708.1
52.5°	30879.1	27778.7	13156.6	3888.4	1571.4	908.0	1004.4	842.1	745.7	698.7	682.2
55°	32937.5	29877.0	14459.8	3693.2	1350.2	856.2	969.1	830.3	722.2	670.4	654.0
57.5°	34544.1	31321.4	15377.2	3392.1	1157.4	828.0	858.6	818.6	694.0	639.9	625.7
60°	35183.9	31265.0	15628.9	2989.8	1063.3	804.4	750.4	917.4	670.4	616.3	599.9
62.5°	34838.1	29820.6	14923.2	2707.5	1042.1	774.0	703.4	849.2	651.6	599.9	576.3
65°	33240.9	27261.2	13053.2	2632.3	1103.3	743.4	672.8	665.7	625.7	576.3	552.8
67.5°	29761.7	23436.3	10451.5	2639.3	1180.9	712.8	642.2	609.3	590.4	550.4	529.3
70°	24240.9	18529.3	7790.9	2658.1	1220.9	677.5	609.3	574.0	552.8	512.8	498.7
72.5°	17823.7	14281.0	5659.7	2535.8	1228.0	637.5	564.6	534.0	512.8	470.5	458.7
75°	12194.5	10924.3	3926.1	2100.6	1070.3	581.0	515.2	486.9	472.8	421.0	414.0
77.5°	8908.3	8200.3	2512.3	1559.6	825.6	510.5	454.0	432.8	423.4	366.9	357.5
80°	7148.8	6487.8	1571.4	1068.0	604.6	428.1	381.0	369.3	359.9	303.4	296.3
82.5°	4958.8	4344.8	1009.1	694.0	454.0	331.6	301.1	296.3	282.2	230.6	223.5
85°	2615.8	2359.4	639.9	472.8	329.3	228.2	209.4	209.4	202.3	152.9	148.2
87.5°	334.0	543.4	324.6	247.0	181.2	101.2	101.2	98.8	105.9	87.1	75.3
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°	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5
2.5°	11684.0	11797.0	11688.7	11695.8	11815.8	12173.3	12335.7	12469.8	12613.2	12707.3	12749.6
5°	8468.4	8731.9	8821.3	9009.4	9287.1	9743.4	9924.5	10056.2	10143.3	10195.0	10216.2
7.5°	5791.4	5951.4	6130.2	6433.6	7038.2	7306.3	7426.3	7395.7	7296.9	7261.6	7226.4
10°	4366.0	4302.4	4269.5	4436.5	4925.8	5196.3	5281.0	5198.6	5144.5	5156.3	5215.1
12.5°	3382.7	3272.1	3138.0	3119.2	3441.5	3683.7	3737.9	3742.6	3841.4	3928.4	4057.7
15°	2465.2	2453.4	2387.7	2347.7	2531.1	2728.7	2752.2	2794.6	2884.0	2947.5	3060.4
17.5°	1738.4	1801.9	1853.7	1879.5	2018.3	2159.4	2133.6	2112.4	2095.9	2095.9	2150.0
20°	1402.0	1444.3	1510.2	1585.5	1726.6	1825.5	1761.9	1677.2	1616.1	1597.2	1604.3
22.5°	1263.2	1296.2	1333.8	1399.6	1526.7	1594.9	1526.7	1465.5	1404.3	1383.1	1376.1
25°	1192.7	1235.0	1270.3	1319.7	1413.7	1460.8	1394.9	1350.2	1312.7	1286.8	1267.9
27.5°	1152.7	1190.3	1199.7	1223.2	1303.2	1345.5	1312.7	1293.8	1270.3	1246.8	1223.2
30°	1110.3	1103.3	1086.8	1089.1	1152.7	1195.0	1192.7	1197.4	1195.0	1188.0	1183.2
32.5°	1013.8	999.7	985.6	999.7	1058.5	1096.2	1098.5	1108.0	1108.0	1105.6	1124.4
35°	844.4	870.3	886.8	929.1	999.7	1032.7	1018.6	995.0	952.7	926.8	924.4
37.5°	781.0	785.7	813.9	872.7	950.3	980.9	959.7	905.6	877.4	872.7	879.7
40°	750.4	755.1	771.6	825.6	903.3	933.9	915.0	875.0	849.2	846.8	858.6
42.5°	729.3	734.0	743.4	781.0	844.4	882.1	884.4	856.2	825.6	828.0	839.7
45°	717.5	719.9	717.5	736.3	795.1	839.7	858.6	839.7	813.9	818.6	832.7
47.5°	715.1	708.1	698.7	703.4	764.6	809.2	832.7	825.6	813.9	818.6	830.3
50°	705.7	689.3	677.5	675.1	736.3	783.4	804.4	804.4	809.2	818.6	830.3
52.5°	677.5	658.7	658.7	651.6	717.5	762.2	776.3	778.7	785.7	802.2	818.6
55°	642.2	635.2	642.2	630.4	703.4	745.7	752.8	757.5	762.2	776.3	799.8
57.5°	611.6	602.2	618.7	614.0	691.6	729.3	729.3	738.7	738.7	757.5	776.3
60°	595.2	576.3	583.4	588.1	675.1	715.1	710.4	719.9	724.6	741.0	755.1
62.5°	574.0	557.5	557.5	569.3	656.3	694.0	691.6	698.7	717.5	722.2	736.3
65°	548.1	541.0	534.0	548.1	637.5	670.4	672.8	682.2	698.7	703.4	715.1
67.5°	522.2	524.6	510.5	524.6	621.0	646.9	646.9	665.7	672.8	682.2	694.0
70°	494.0	496.3	484.6	501.0	609.3	621.0	618.7	644.6	649.3	656.3	668.1
72.5°	458.7	458.7	454.0	477.5	590.4	595.2	590.4	611.6	614.0	621.0	625.7
75°	421.0	421.0	416.3	449.3	578.7	566.9	552.8	569.3	574.0	578.7	578.7
77.5°	371.6	376.3	376.3	416.3	538.7	555.2	508.1	517.5	524.6	526.9	519.9
80°	310.5	322.2	326.9	378.7	451.6	512.8	454.0	461.0	463.4	463.4	454.0
82.5°	237.6	258.8	270.5	326.9	345.8	430.5	395.2	402.2	395.2	381.0	376.3
85°	164.7	192.9	207.0	249.4	261.2	331.6	329.3	329.3	315.2	296.3	294.0
87.5°	89.4	105.9	115.3	148.2	178.8	223.5	242.3	235.3	223.5	211.8	214.1
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°	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5
2.5°	12970.8	13290.7	13801.1	14191.7	14584.5	14963.2	15372.5	15685.4	15951.2	16054.7	16369.9
5°	10430.3	10830.2	11312.4	12182.7	12799.1	13478.9	14264.5	15304.3	15704.2	16257.0	17162.7
7.5°	7374.6	7736.9	8513.1	9216.5	10089.2	11051.2	12112.1	13547.1	14071.7	14958.5	16433.4
10°	5506.9	5927.9	6551.3	7144.1	7913.2	8896.5	10115.0	11719.3	12356.8	13318.9	15017.3
12.5°	4436.5	4932.9	5593.9	6151.4	6746.5	7440.4	8623.7	10383.3	11237.1	12079.2	13796.4
15°	3408.6	3928.4	4542.4	5250.4	5906.7	6654.8	7894.4	9818.7	10802.0	11679.3	13144.8
17.5°	2359.4	2804.0	3577.9	4316.5	5156.3	6113.8	7692.2	9938.6	11112.4	12123.9	13257.7
20°	1672.5	1926.5	2561.7	3418.0	4464.8	5666.7	7654.5	10569.0	12095.7	13250.7	13982.3
22.5°	1406.7	1500.8	1870.2	2655.8	3864.9	5332.7	7786.2	11453.6	13422.4	14897.3	15137.3
25°	1282.1	1338.5	1531.4	2084.2	3330.9	5090.5	8230.9	12770.8	15064.4	16544.0	16501.6
27.5°	1213.8	1272.7	1399.6	1759.6	2928.7	4939.9	8675.4	14332.8	16941.5	18331.8	17804.9
30°	1192.7	1272.7	1406.7	1658.4	2641.7	4702.3	9040.0	15704.2	18385.9	19538.6	18397.7
32.5°	1176.2	1188.0	1249.1	1430.2	2368.8	4424.8	9287.1	16934.4	19799.6	20686.4	19251.5
35°	950.3	1009.1	1108.0	1282.1	2208.9	4257.7	9287.1	17995.3	21192.2	21846.1	20065.5
37.5°	915.0	966.8	1053.8	1202.1	2119.5	4175.4	9101.2	19018.7	22615.4	23161.1	20735.8
40°	896.2	938.6	1020.9	1140.9	2081.8	4081.3	8830.7	19922.0	24005.6	24478.4	21361.6
42.5°	882.1	919.7	997.4	1103.3	2032.4	3977.8	8611.9	20646.4	25212.4	25602.8	21959.1
45°	875.0	915.0	999.7	1122.1	1933.6	3841.4	8539.0	21429.8	26205.0	26541.4	22606.0
47.5°	875.0	922.1	1011.5	1162.1	1816.0	3700.2	8767.2	22462.5	27143.6	27308.3	23368.1
50°	868.0	919.7	1044.4	1122.1	1644.3	3521.4	9303.5	23763.4	28159.8	28178.6	24332.6
52.5°	853.9	915.0	1124.4	1098.5	1446.7	3286.2	10028.0	25433.5	29663.0	29775.8	25842.8
55°	837.4	908.0	1103.3	1044.4	1284.4	3006.2	10620.8	27463.6	31775.4	32088.2	28063.4
57.5°	816.2	898.6	1068.0	969.1	1178.5	2646.4	10834.9	28950.2	33250.3	34036.0	30566.3
60°	797.5	891.5	964.4	924.4	1112.7	2343.0	10420.9	28656.2	33149.1	34842.8	32784.6
62.5°	778.7	898.6	879.7	896.2	1082.1	2147.7	9338.8	26301.5	31471.9	34010.1	34428.8
65°	757.5	835.0	830.3	872.7	1075.0	2070.0	7741.6	22770.7	28230.4	31377.8	34816.9
67.5°	729.3	771.6	795.1	842.1	1098.5	2001.8	6247.8	18783.4	23725.7	27433.0	32794.0
70°	698.7	734.0	759.8	804.4	1084.4	1971.2	5196.3	14812.6	18825.8	22483.6	28802.0
72.5°	658.7	689.3	712.8	755.1	1070.3	1954.8	4389.5	11928.7	14055.2	16701.6	23417.5
75°	611.6	639.9	656.3	698.7	1025.6	1790.2	3450.9	10093.9	10517.3	11618.2	18651.7
77.5°	557.5	578.7	592.8	639.9	908.0	1489.0	2495.8	7786.2	8167.3	8435.5	14299.8
80°	494.0	515.2	522.2	566.9	752.8	1164.4	1627.8	5751.4	6109.1	6170.1	9338.8
82.5°	421.0	442.2	442.2	484.6	616.3	837.4	1068.0	3940.2	4010.8	4217.7	6600.7
85°	338.7	355.2	355.2	376.3	477.5	625.7	734.0	1978.3	1957.1	2234.7	5718.5
87.5°	242.3	254.1	265.9	270.5	341.1	414.0	442.2	602.2	397.5	456.3	3672.0
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: P191328

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5
2.5°	16607.5	16741.6	16605.2	16506.3	16080.6	15730.1	15262.0	15022.0
5°	17851.9	18193.0	18077.7	17663.7	16774.6	15774.8	14638.6	14125.8
7.5°	17701.3	18494.0	18512.9	17739.0	16428.7	14956.2	13417.7	12688.5
10°	16529.9	17543.7	17833.1	17082.7	15692.5	14045.8	12281.5	11448.9
12.5°	15222.0	16214.7	16435.8	16177.0	15015.0	13361.3	11571.1	10754.9
15°	14151.7	14596.3	14859.7	15085.6	14433.9	13088.5	11531.1	10634.9
17.5°	13500.1	13450.7	13526.0	13918.8	14029.4	13401.3	12142.7	11154.8
20°	13264.8	12509.8	12490.9	13032.0	13838.8	14147.0	13337.7	12152.1
22.5°	13394.2	12171.0	12015.8	12657.9	13940.0	15222.0	14904.4	13551.8
25°	13841.1	12199.2	12074.5	12695.5	14306.9	16367.5	16595.7	15363.1
27.5°	14544.5	12378.0	12213.3	12850.8	14793.8	17329.7	18261.2	17118.0
30°	15212.6	12688.5	12483.9	13156.6	15238.5	17710.8	19282.1	18487.1
32.5°	16024.1	13269.5	12909.6	13718.8	15788.9	18317.7	20192.4	19620.8
35°	16819.3	14097.6	13650.7	14586.9	16402.8	19072.7	21232.2	21069.9
37.5°	17691.9	15179.7	14810.3	15708.9	17242.7	19785.5	22558.9	22768.3
40°	18623.4	16614.6	16177.0	17346.2	18545.8	20679.4	23944.4	24447.8
42.5°	19562.1	18207.1	17684.9	18870.5	19978.4	21561.6	25130.0	25875.7
45°	20637.1	19936.1	19689.0	20971.1	21354.5	22401.3	26005.0	26931.9
47.5°	21888.5	21897.9	22295.4	22808.2	22742.4	23351.6	26884.9	27875.2
50°	23349.3	24346.7	25224.1	25565.2	24172.6	24372.6	28105.8	29138.4
52.5°	25104.1	27275.3	28362.1	28138.7	25713.4	25619.3	30039.4	30879.1
55°	27298.9	30375.7	31455.4	31295.5	27484.7	27317.7	32448.1	32937.5
57.5°	29839.4	33379.7	34372.4	33652.5	29611.3	29180.8	34440.6	34544.1
60°	32071.8	35760.2	36630.6	35833.1	31756.6	31163.8	35684.9	35183.9
62.5°	33313.8	36567.1	37178.7	36320.1	33226.8	33276.2	35957.8	34838.1
65°	32758.7	34527.7	34725.2	34654.6	32848.1	34501.8	34976.9	33240.9
67.5°	29719.5	29371.3	29703.0	30161.7	29601.8	32888.1	32260.0	29761.7
70°	24365.6	22453.1	23114.1	23422.2	23676.3	28301.0	27999.9	24240.9
72.5°	18362.4	15730.1	16252.3	16188.8	17365.0	22700.1	21775.6	17823.7
75°	13010.8	10665.5	10731.4	10705.5	12116.9	17760.2	15767.8	12194.5
77.5°	9103.5	7727.5	7762.8	7908.5	8146.2	13394.2	11265.3	8908.3
80°	6259.5	5864.4	6059.7	6071.4	5645.6	8997.7	8322.5	7148.8
82.5°	4662.3	4076.6	4029.5	4097.7	4424.8	7289.9	6396.0	4958.8
85°	3817.9	2413.4	1940.6	2432.3	3921.4	7219.4	4248.3	2615.8
87.5°	2150.0	1145.6	517.5	959.7	1564.3	4779.9	1228.0	334.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)