

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: P191282

Luminaire Tested: **GLEON-AF-04-LED-E1-SLL-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191282
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-04-LED-E1-SLL-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA 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: 17440.3 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

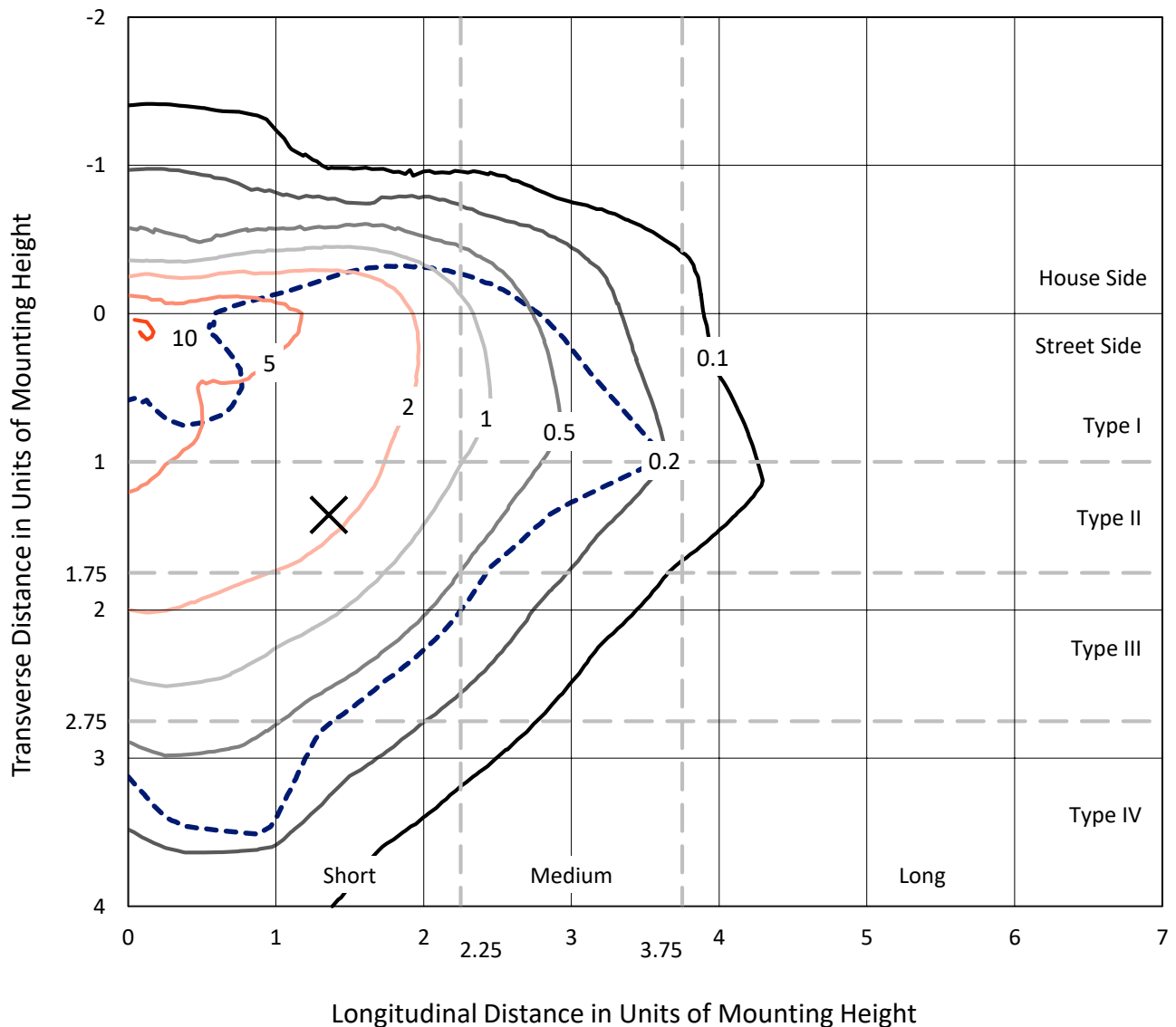
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

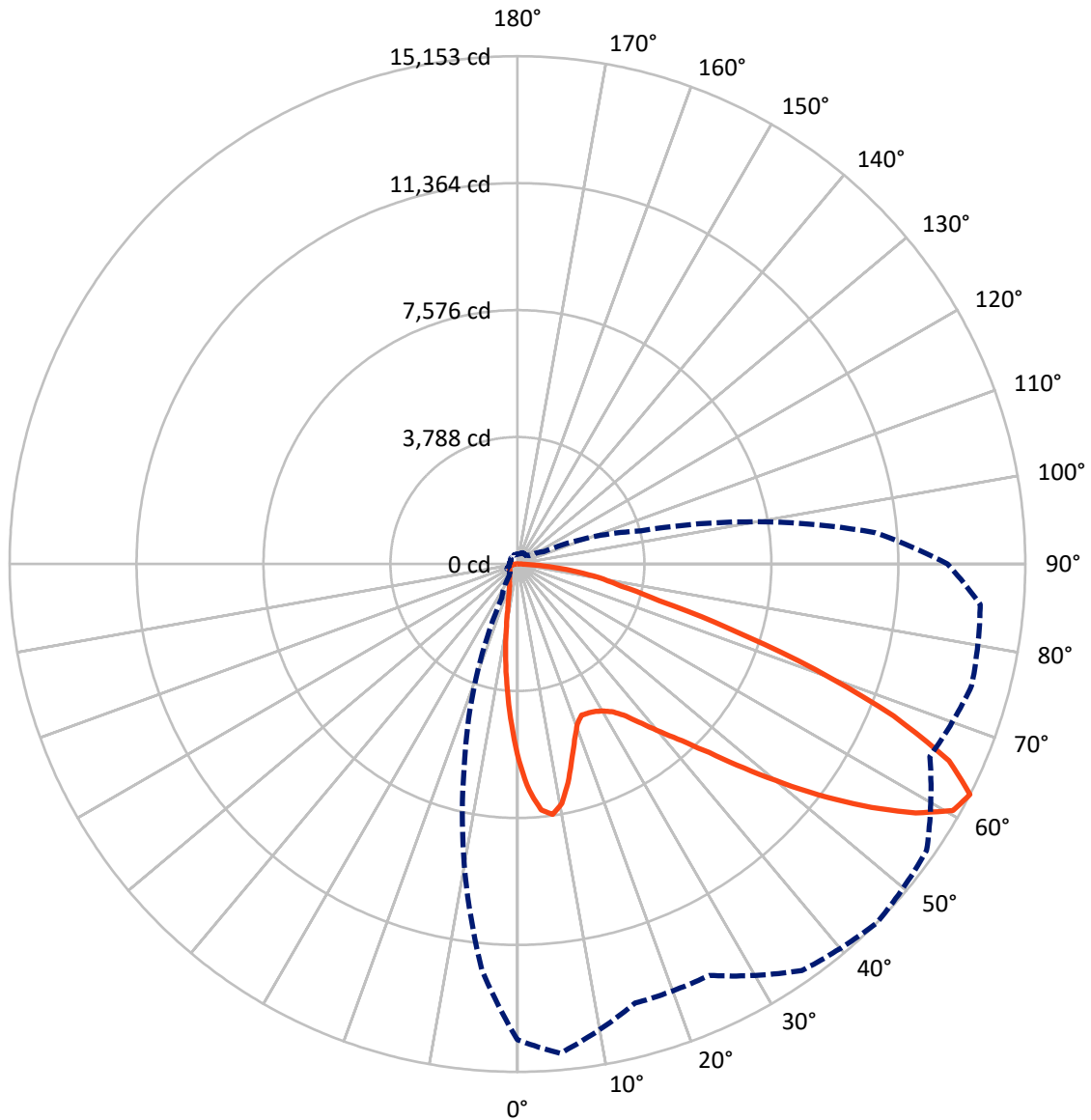
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	2886.1	0.0	2886.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14554.2	0.0	14554.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	17440.3	0.0	17440.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.9	2.5
10°-20°	786.5	4.5
20°-30°	1146.8	6.6
30°-40°	1766.2	10.1
40°-50°	2599.4	14.9
50°-60°	3812.7	21.9
60°-70°	4262.1	24.4
70°-80°	2086.7	12.0
80°-90°	550.9	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°	17440.3	100.0
0°-180°	17440.3	100.0



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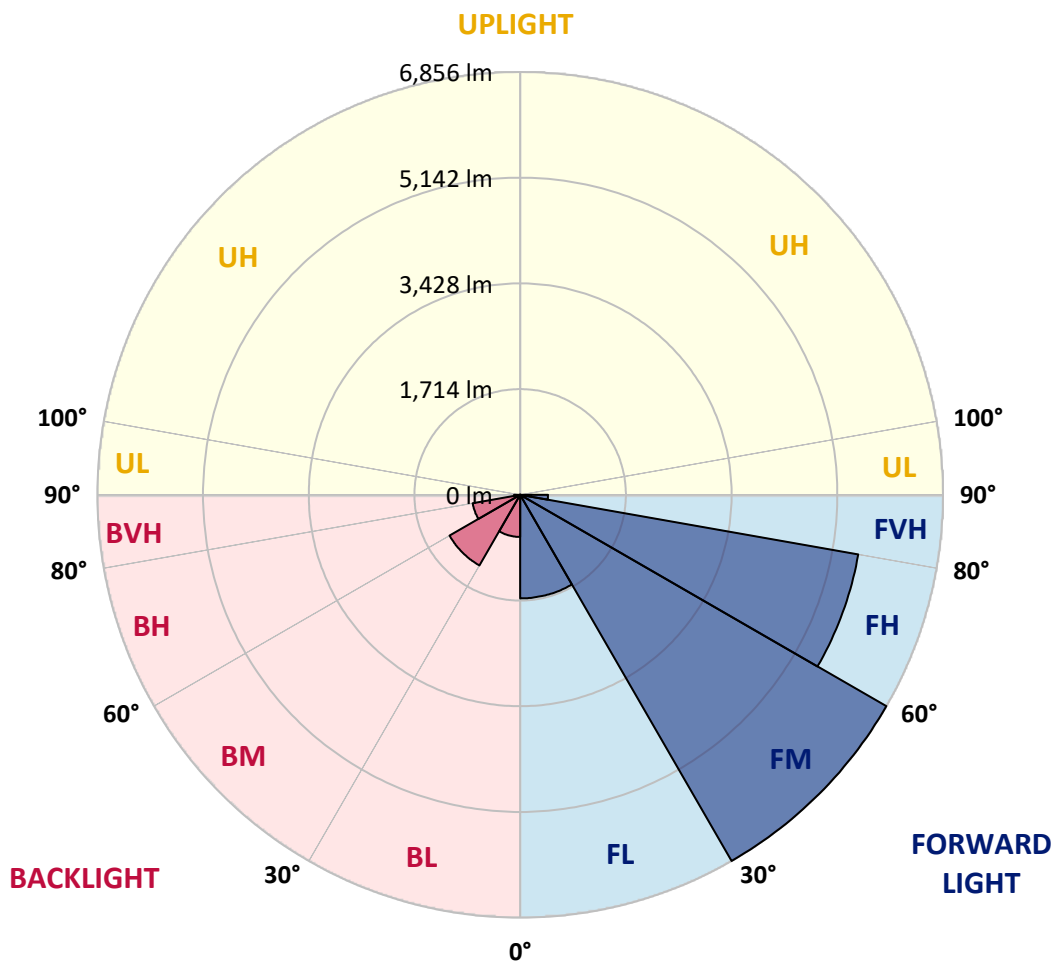
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1679.4	9.6			
FM	(30°-60°)	6855.9	39.3			
FH	(60°-80°)	5566.3	31.9			G3/7500
FVH	(80°-90°)	452.4	2.6			G3/500
BL	(0°-30°)	682.8	3.9	B2/1000		
BM	(30°-60°)	1322.4	7.6	B2/2500		
BH	(60°-80°)	782.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	98.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3
2.5°	6122.4	6220.2	6410.9	6553.7	6727.3	6767.5	6823.2	6768.6	6671.7	6543.2	6501.1
5°	5757.1	5966.1	6429.1	6836.6	7199.0	7367.7	7414.8	7275.7	6994.8	6625.7	6400.4
7.5°	5171.3	5468.5	6095.6	6695.6	7229.7	7545.1	7537.4	7214.4	6697.6	6096.5	5735.1
10°	4666.1	5005.5	5724.5	6395.6	6962.2	7268.1	7150.1	6736.8	6120.4	5428.3	5036.1
12.5°	4383.2	4715.9	5445.5	6119.5	6593.1	6698.6	6608.5	6203.9	5622.9	4923.1	4579.8
15°	4334.3	4699.6	5334.3	5882.7	6148.2	6056.2	5948.9	5767.6	5357.3	4760.0	4402.5
17.5°	4546.2	4948.9	5461.8	5717.8	5672.8	5512.6	5481.9	5502.0	5403.3	4941.3	4529.0
20°	4952.7	5436.0	5765.8	5640.1	5311.3	5090.8	5098.5	5406.2	5698.7	5400.5	4929.7
22.5°	5523.1	6074.4	6203.9	5681.4	5158.8	4897.2	4960.4	5459.0	6169.3	6071.5	5470.4
25°	6261.4	6763.8	6670.8	5830.9	5174.2	4921.1	4972.0	5641.1	6725.4	6742.7	6139.6
27.5°	6976.6	7442.5	7062.9	6029.4	5237.5	4977.7	5044.8	5927.7	7256.5	7471.2	6904.7
30°	7534.5	7858.6	7218.1	6210.5	5362.1	5088.0	5171.3	6200.0	7498.1	7963.1	7493.3
32.5°	7996.6	8229.6	7465.5	6434.9	5591.2	5261.4	5408.1	6530.8	7846.1	8431.0	8069.5
35°	8587.3	8653.3	7773.3	6685.1	5945.0	5563.4	5745.6	6854.8	8177.9	8903.6	8637.1
37.5°	9279.4	9194.1	8063.7	7027.4	6402.3	6036.1	6186.6	7210.5	8451.1	9439.5	9217.1
40°	9964.0	9758.7	8428.1	7558.5	7069.6	6593.1	6771.4	7590.2	8706.1	9976.4	9783.7
42.5°	10545.9	10242.0	8787.6	8142.4	7690.9	7207.6	7420.5	7972.7	8949.6	10434.7	10275.5
45°	10976.4	10598.6	9129.8	8703.3	8547.0	8024.4	8125.1	8410.8	9213.3	10817.2	10680.1
47.5°	11360.8	10957.1	9517.1	9268.9	9295.8	9086.7	8924.7	8920.8	9523.9	11129.7	11062.6
50°	11875.6	11454.7	9933.3	9851.7	10419.4	10280.3	9922.7	9516.2	9917.0	11484.5	11476.8
52.5°	12585.1	12242.8	10441.4	10479.7	11468.2	11559.2	11116.3	10231.5	10532.4	12135.5	12089.4
55°	13424.0	13224.5	11133.6	11201.6	12754.8	12819.9	12379.9	11125.9	11437.5	13077.8	12950.4
57.5°	14078.8	14036.5	11892.8	12068.4	13715.4	14008.8	13604.2	12161.4	12457.6	13871.6	13551.4
60°	14339.5	14543.7	12701.1	12942.7	14604.2	14929.1	14574.4	13071.2	13361.6	14200.5	13510.2
62.5°	14198.6	14654.9	13562.0	13541.8	14802.6	15152.5	14903.3	13577.3	14031.8	13861.1	12826.7
65°	13547.7	14255.1	14061.5	13387.6	14123.8	14152.5	14072.0	13351.0	14190.0	12788.3	11505.5
67.5°	12129.6	13147.8	13403.8	12064.5	12292.7	12105.7	11970.6	12112.5	13365.5	11180.5	9669.6
70°	9879.6	11411.6	11534.3	9649.5	9546.0	9420.4	9150.9	9930.4	11738.6	9163.4	7672.6
72.5°	7264.2	8874.8	9251.6	7077.3	6597.9	6623.8	6410.9	7483.7	9544.0	6806.9	5728.3
75°	4970.0	6426.3	7238.3	4938.4	4363.1	4373.6	4346.8	5302.7	7601.6	4735.1	4286.4
77.5°	3630.7	4591.3	5459.0	3320.0	3223.2	3163.8	3149.4	3710.2	5828.1	3437.9	3328.7
80°	2913.6	3391.9	3667.1	2300.9	2474.4	2469.6	2390.1	2551.1	3806.1	2514.7	2489.8
82.5°	2020.9	2606.8	2971.1	1803.4	1670.1	1642.2	1661.5	1900.1	2690.2	1719.0	1634.6
85°	1066.1	1731.4	2942.3	1598.2	991.3	790.9	983.7	1556.0	2330.6	910.7	797.7
87.5°	136.2	500.4	1948.1	637.5	391.2	210.9	466.9	876.3	1496.6	186.0	162.0
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-04-LED-E1-SLL-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3
2.5°	6392.7	6265.2	6098.4	5944.1	5784.0	5624.8	5416.7	5286.4	5196.3	5179.0	5140.6
5°	6237.4	5813.6	5493.5	5216.3	4965.2	4610.4	4413.9	4251.0	4163.7	4155.1	4133.9
7.5°	5521.3	4936.5	4504.1	4112.0	3756.3	3469.5	3153.2	3005.5	2945.2	2959.6	2973.9
10°	4776.4	4122.5	3625.8	3225.2	2911.6	2670.0	2416.0	2244.4	2125.5	2101.6	2096.7
12.5°	4231.7	3514.7	3032.4	2749.6	2507.0	2279.9	2010.4	1808.2	1653.8	1601.0	1565.6
15°	4001.7	3217.5	2712.3	2407.3	2139.8	1851.2	1601.0	1389.2	1247.3	1201.3	1175.4
17.5°	4050.6	3135.0	2491.7	2101.6	1759.3	1458.2	1142.8	961.6	876.3	854.3	854.3
20°	4307.5	3119.7	2309.5	1819.6	1393.1	1044.0	785.2	681.7	653.9	651.0	658.7
22.5°	4668.0	3173.4	2173.4	1575.1	1082.4	762.2	611.6	573.3	560.9	563.7	572.3
25°	5204.9	3354.6	2074.6	1357.6	849.5	624.1	545.5	522.5	516.8	524.5	535.0
27.5°	5841.5	3535.7	2013.3	1193.6	717.1	570.4	518.6	494.7	498.5	508.1	517.7
30°	6400.4	3684.4	1916.5	1076.7	675.9	573.3	518.6	486.1	482.2	484.2	487.0
32.5°	6901.7	3785.0	1803.4	965.5	582.9	509.1	484.2	479.4	458.3	450.6	451.5
35°	7334.1	3785.0	1735.2	900.2	522.5	451.5	411.3	387.3	376.8	377.8	388.3
37.5°	7751.2	3709.3	1701.7	863.8	489.9	429.5	394.0	373.0	358.5	355.7	357.6
40°	8119.4	3599.0	1663.4	848.4	464.9	416.0	382.5	365.3	350.0	345.1	346.1
42.5°	8414.7	3509.8	1621.2	828.3	449.6	406.5	374.8	359.6	342.3	337.5	336.6
45°	8734.0	3480.2	1565.6	788.1	457.3	407.4	373.0	356.6	339.4	333.6	331.7
47.5°	9154.8	3573.2	1508.0	740.1	473.6	412.2	375.8	356.6	338.4	333.6	331.7
50°	9685.0	3791.8	1435.2	670.1	457.3	425.6	374.8	353.7	338.4	333.6	329.8
52.5°	10365.7	4087.0	1339.3	589.6	447.7	458.3	373.0	348.0	333.6	326.9	320.2
55°	11193.0	4328.6	1225.2	523.4	425.6	449.6	370.1	341.3	326.0	316.4	310.7
57.5°	11798.9	4415.9	1078.6	480.3	395.0	435.3	366.2	332.7	316.4	308.7	301.1
60°	11679.0	4247.1	954.9	453.5	376.8	393.1	363.4	325.0	307.7	302.0	295.3
62.5°	10719.4	3806.1	875.3	441.0	365.3	358.5	366.2	317.3	300.0	294.3	292.4
65°	9280.4	3155.1	843.6	438.1	355.7	338.4	340.3	308.7	291.4	286.6	284.8
67.5°	7655.4	2546.3	815.9	447.7	343.2	324.1	314.5	297.2	282.8	278.0	274.2
70°	6037.0	2117.8	803.4	442.0	327.9	309.6	299.1	284.8	272.3	267.5	264.6
72.5°	4861.7	1788.9	796.7	436.2	307.7	290.5	280.9	268.4	255.0	253.1	250.2
75°	4113.9	1406.5	729.6	418.0	284.8	267.5	260.8	249.3	235.9	235.9	233.9
77.5°	3173.4	1017.2	606.9	370.1	260.8	241.6	235.9	227.2	211.9	214.7	213.8
80°	2344.1	663.4	474.5	306.8	231.1	212.9	209.9	201.3	185.1	188.8	188.8
82.5°	1605.8	435.3	341.3	251.1	197.5	180.2	180.2	171.7	153.4	155.3	161.1
85°	806.3	299.1	255.0	194.7	153.4	144.7	144.7	138.1	119.9	120.8	128.5
87.5°	245.4	180.2	168.7	139.0	110.3	108.3	103.5	98.7	87.3	86.2	91.0
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°	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3
2.5°	5082.1	5027.5	4961.3	4815.6	4766.7	4763.9	4808.0	4761.9	4850.1	4812.8	4854.0
5°	4098.6	4044.8	3971.0	3785.0	3671.9	3595.2	3558.7	3451.3	3529.1	3472.5	3519.5
7.5°	3014.2	3026.7	2977.8	2868.5	2622.1	2498.5	2425.5	2360.4	2416.9	2411.2	2501.3
10°	2118.7	2152.3	2117.8	2007.5	1808.2	1740.0	1753.5	1779.4	1853.2	1891.5	2030.6
12.5°	1525.3	1523.4	1501.4	1402.6	1271.2	1278.9	1333.6	1378.6	1446.7	1487.0	1628.8
15°	1139.0	1121.7	1112.2	1031.5	956.8	973.1	999.9	1004.7	1047.9	1071.8	1186.9
17.5°	860.9	869.5	880.1	822.6	766.0	755.4	734.4	708.5	721.0	725.8	783.3
20°	683.5	718.1	744.0	703.7	646.2	615.5	588.6	571.4	571.4	570.4	586.8
22.5°	597.3	622.2	650.0	622.2	570.4	543.6	528.3	514.9	512.9	512.9	528.3
25°	550.3	568.6	595.4	576.2	537.9	517.7	503.3	486.1	479.4	477.4	487.9
27.5°	527.3	535.0	548.4	531.1	498.5	489.0	485.1	469.7	461.1	456.3	466.9
30°	487.9	486.1	487.0	469.7	443.9	442.9	449.6	452.6	449.6	448.7	464.9
32.5°	451.5	447.7	446.7	431.4	407.4	401.7	407.4	413.2	419.9	429.5	448.7
35°	405.5	415.1	420.8	407.4	378.7	361.4	354.8	344.2	338.4	338.4	360.5
37.5°	369.1	391.2	399.8	387.3	355.7	331.7	320.2	318.3	319.3	323.0	344.2
40°	356.6	373.0	380.6	368.2	336.6	314.5	307.7	305.9	307.7	313.5	334.6
42.5°	348.9	360.5	359.6	344.2	318.3	303.0	299.1	297.2	299.1	304.8	327.9
45°	342.3	350.0	342.3	324.1	300.0	292.4	293.4	292.4	294.3	300.0	322.1
47.5°	336.6	339.4	329.8	311.6	286.6	284.8	288.6	291.4	293.4	298.2	321.2
50°	327.9	327.9	319.3	300.0	275.2	276.1	280.9	287.7	288.6	294.3	312.5
52.5°	317.3	316.4	310.7	292.4	265.6	268.4	268.4	276.1	278.0	284.8	303.9
55°	308.7	306.8	303.9	286.6	257.0	261.8	258.8	261.8	266.5	273.2	294.3
57.5°	301.1	297.2	297.2	281.8	250.2	252.2	245.4	249.3	255.0	260.8	282.8
60°	293.4	289.5	291.4	275.2	239.7	237.7	234.9	242.5	244.5	251.1	273.2
62.5°	284.8	281.8	282.8	267.5	232.0	227.2	227.2	233.9	234.9	244.5	265.6
65°	278.0	274.2	273.2	259.8	223.4	217.6	220.5	223.4	225.3	234.9	255.0
67.5°	271.3	263.6	263.6	253.1	213.8	208.1	213.8	212.9	215.7	224.3	240.6
70°	262.7	252.2	253.1	248.3	204.2	197.5	202.3	201.3	203.3	209.0	225.3
72.5°	249.3	240.6	242.5	240.6	194.7	185.1	187.0	187.0	187.0	191.7	209.0
75°	232.0	225.3	231.1	235.9	183.1	169.7	171.7	171.7	168.7	171.7	192.7
77.5°	210.9	207.0	226.3	219.5	169.7	153.4	153.4	151.5	145.8	149.6	172.6
80°	187.9	185.1	209.0	184.0	154.4	133.3	131.3	126.5	120.8	123.7	146.7
82.5°	164.0	161.1	175.4	141.0	133.3	110.3	105.5	96.9	91.0	93.9	115.1
85°	134.2	134.2	135.1	106.4	101.6	84.4	78.7	67.1	60.4	62.3	82.4
87.5°	95.9	98.7	91.0	72.8	60.4	47.0	43.2	36.4	30.7	35.5	43.2
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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CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3
2.5°	5064.9	5170.4	5290.2	5443.6	5575.0	5790.6	5997.8	6122.4
5°	3787.0	3962.4	4181.0	4461.9	4723.6	5116.7	5506.9	5757.1
7.5°	2710.3	2898.2	3134.0	3484.9	3855.0	4356.4	4872.2	5171.3
10°	2242.4	2435.1	2633.6	2870.4	3173.4	3718.8	4328.6	4666.1
12.5°	1855.1	2061.2	2275.0	2524.3	2805.2	3292.3	3994.9	4383.2
15°	1419.9	1649.9	1902.1	2217.6	2569.3	3132.2	3912.5	4334.3
17.5°	973.1	1230.0	1539.7	1929.0	2359.4	3080.3	4060.2	4546.2
20°	670.1	857.1	1187.9	1644.2	2161.9	3073.7	4344.0	4952.7
22.5°	560.9	644.3	885.9	1382.5	2013.3	3156.1	4784.0	5523.1
25°	518.6	568.6	707.6	1155.2	1904.9	3346.0	5389.9	6261.4
27.5°	493.8	538.8	642.3	1006.7	1819.6	3566.4	5979.6	6976.6
30°	503.3	549.3	624.1	930.9	1703.6	3750.5	6503.0	7534.5
32.5°	453.5	473.6	535.0	863.8	1620.3	3904.8	6961.3	7996.6
35°	386.4	421.9	477.4	832.2	1622.2	4008.4	7460.7	8587.3
37.5°	368.2	403.7	443.9	820.6	1644.2	4118.6	8034.1	9279.4
40°	356.6	389.2	423.7	814.0	1665.3	4219.3	8595.9	9964.0
42.5°	348.9	378.7	421.9	790.9	1675.8	4309.4	9057.9	10545.9
45°	348.0	378.7	429.5	767.9	1692.2	4406.3	9445.3	10976.4
47.5°	348.9	391.2	415.1	740.1	1692.2	4568.3	9899.7	11360.8
50°	345.1	412.2	399.8	700.8	1652.8	4875.1	10522.9	11875.6
52.5°	343.2	409.4	370.1	640.5	1584.8	5362.1	11321.5	12585.1
55°	338.4	395.0	348.9	550.3	1505.2	5893.2	12176.7	13424.0
57.5°	333.6	350.0	337.5	471.7	1382.5	6267.1	12765.3	14078.8
60°	373.9	305.9	327.9	433.3	1218.5	6369.7	12742.3	14339.5
62.5°	346.1	286.6	315.4	424.7	1103.5	6082.1	12153.7	14198.6
65°	271.3	274.2	303.0	449.6	1072.8	5320.0	11110.6	13547.7
67.5°	248.3	261.8	290.5	481.3	1075.6	4259.6	9551.7	12129.6
70°	233.9	248.3	276.1	497.6	1083.3	3175.2	7551.8	9879.6
72.5°	217.6	230.1	259.8	500.4	1033.5	2306.7	5820.4	7264.2
75°	198.5	209.9	236.8	436.2	856.1	1600.1	4452.3	4970.0
77.5°	176.4	185.1	208.1	336.6	635.7	1023.9	3342.1	3630.7
80°	150.5	155.3	174.5	246.4	435.3	640.5	2644.1	2913.6
82.5°	120.8	122.8	135.1	185.1	282.8	411.3	1770.7	2020.9
85°	85.3	85.3	93.0	134.2	192.7	260.8	961.6	1066.1
87.5°	40.3	41.2	41.2	73.9	100.7	132.3	221.5	136.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)