

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: P191326

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191326  
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-SLR-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 34649.4 lumens  
Efficiency: N/A  
Efficacy: 103.7 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): 334  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

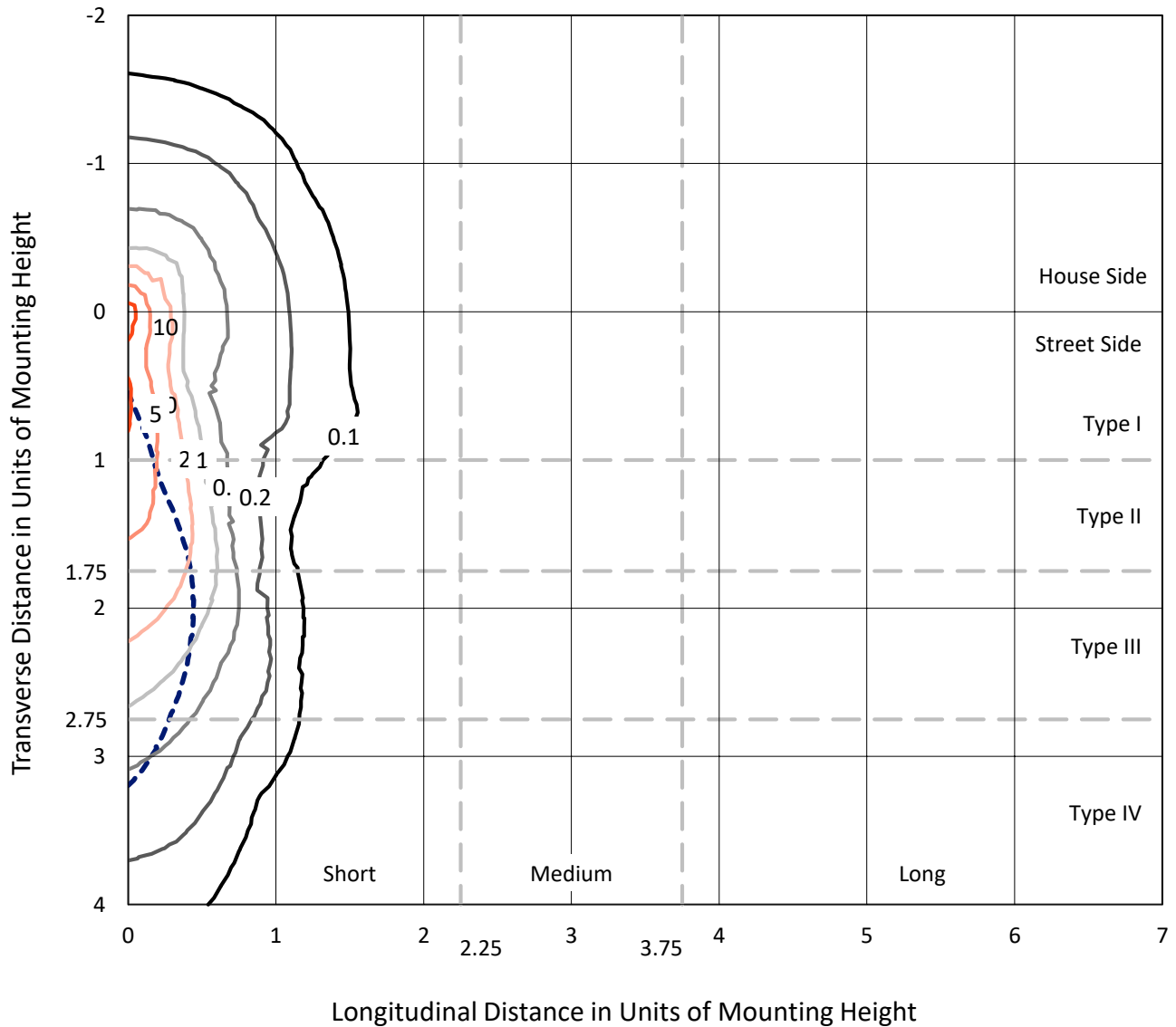


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

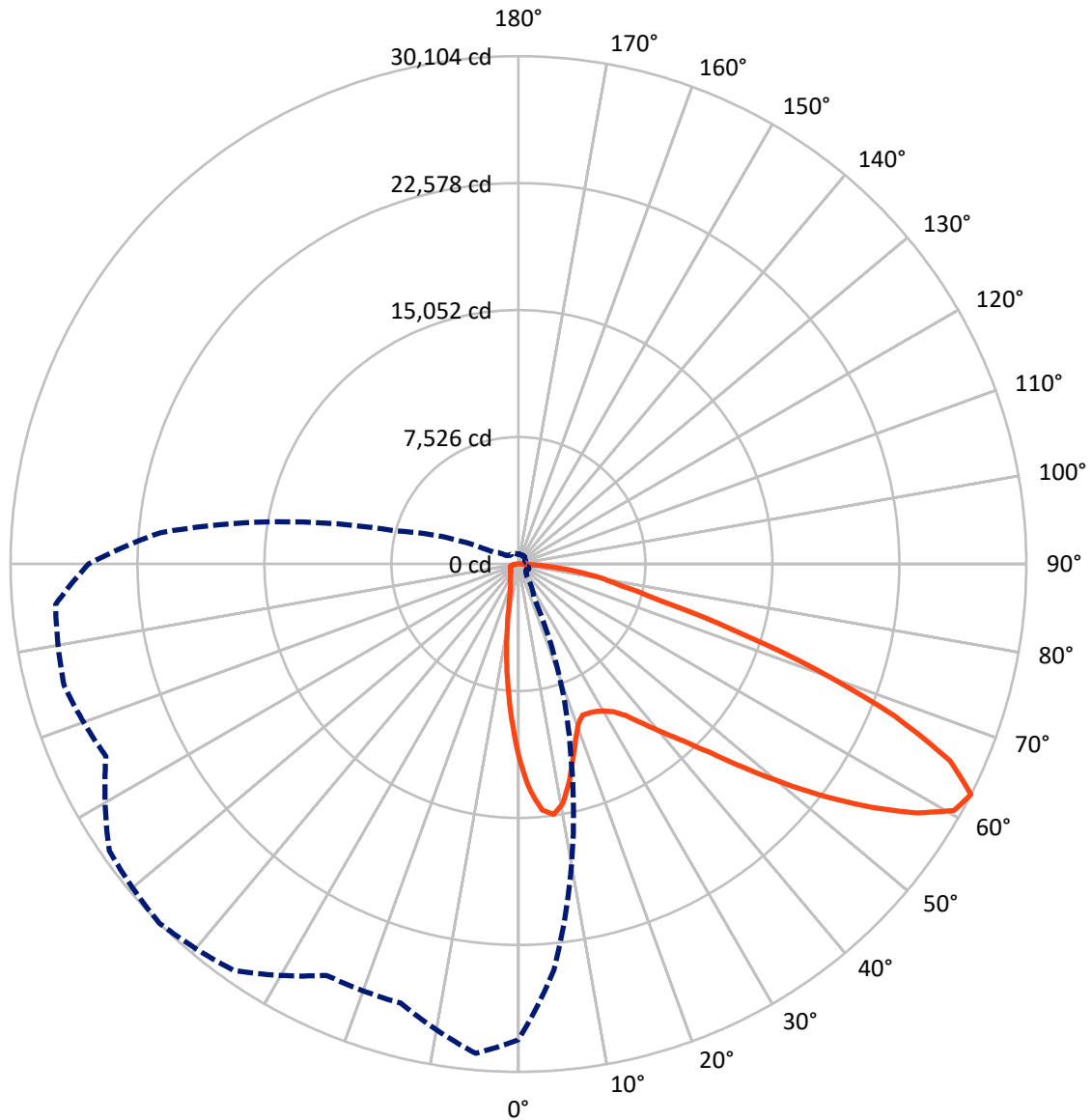


Based on 30 foot mounting height. Maximum calculated value = 13 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	5734.0	0.0	5734.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	28915.4	0.0	28915.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	34649.4	0.0	34649.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	852.2	2.5
10°-20°	1562.7	4.5
20°-30°	2278.4	6.6
30°-40°	3509.0	10.1
40°-50°	5164.3	14.9
50°-60°	7574.9	21.9
60°-70°	8467.7	24.4
70°-80°	4145.7	12.0
80°-90°	1094.6	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°	34649.4	100.0
0°-180°	34649.4	100.0



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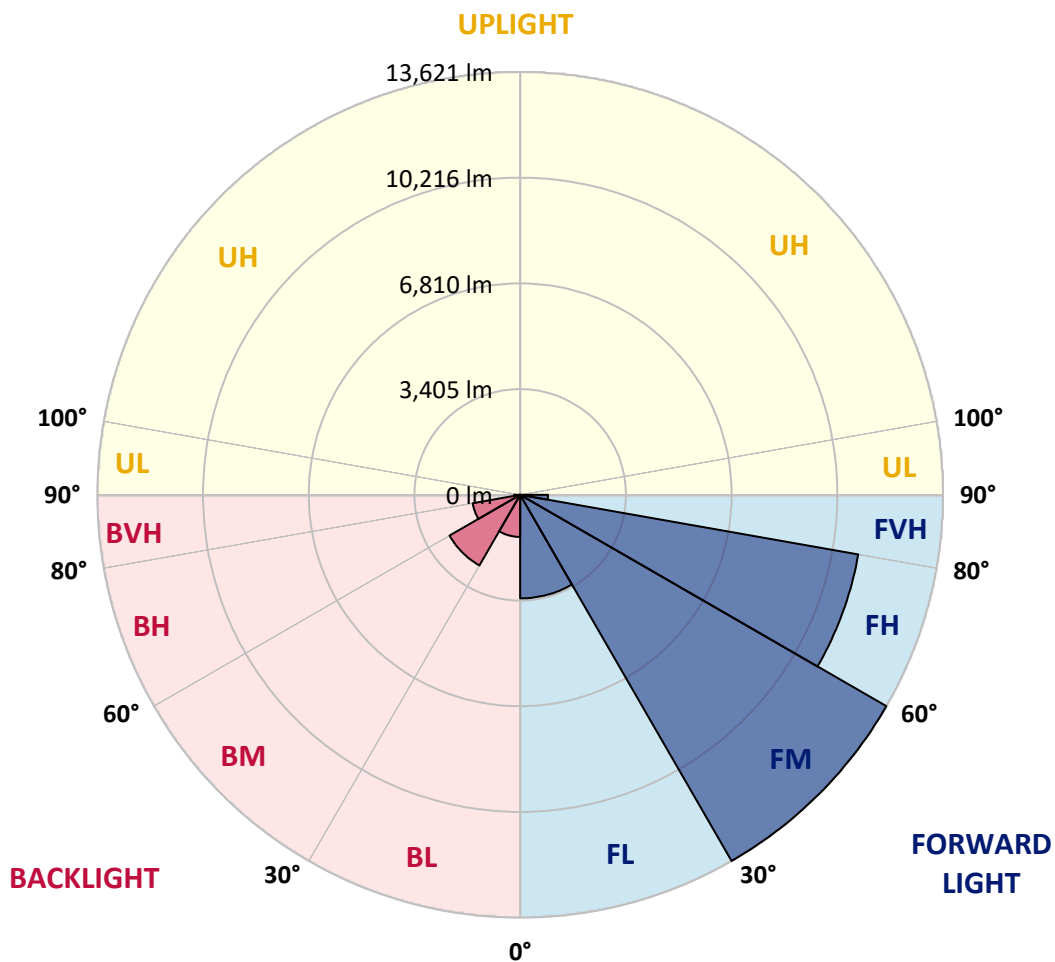
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3336.6	9.6			
FM	(30°-60°)	13621.0	39.3			
FH	(60°-80°)	11058.9	31.9			G4/12000
FVH	(80°-90°)	898.9	2.6			G5
BL	(0°-30°)	1356.6	3.9	B3/2500		
BM	(30°-60°)	2627.3	7.6	B3/5000		
BH	(60°-80°)	1554.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	195.7	0.6			G2/225
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°	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4
2.5°	12163.6	11915.9	11504.5	11076.0	10815.0	10510.3	10272.2	10062.7	9643.7	9561.7	9636.0
5°	11437.8	10940.8	10165.5	9384.6	8864.6	8306.5	7872.2	7523.7	6992.3	6898.9	7011.3
7.5°	10274.1	9679.8	8655.1	7658.9	6923.6	6226.5	5758.0	5384.6	4969.4	4790.4	4801.8
10°	9270.3	8599.8	7388.5	6304.7	5702.7	5232.3	4838.0	4455.2	4034.2	3758.0	3681.8
12.5°	8708.4	7937.0	6540.8	5573.2	5015.1	4519.9	4095.2	3685.6	3236.1	2954.2	2874.2
15°	8611.3	7773.2	6222.7	5104.6	4405.6	3779.0	3278.0	2820.9	2358.0	2129.5	2081.9
17.5°	9032.2	8066.5	6119.9	4687.6	3832.3	3059.0	2443.7	1933.3	1556.1	1441.8	1432.3
20°	9839.8	8630.3	6106.5	4295.2	3266.6	2359.9	1702.8	1331.4	1165.7	1133.3	1135.2
22.5°	10973.1	9504.5	6270.4	3999.9	2746.6	1760.0	1280.0	1114.3	1049.5	1019.1	1019.1
25°	12439.8	10708.4	6647.4	3784.7	2295.2	1405.6	1129.5	1030.4	969.6	948.6	952.4
27.5°	13860.7	11879.7	7085.6	3615.2	2000.0	1276.1	1070.4	980.9	927.6	906.6	916.2
30°	14969.2	12919.8	7451.3	3384.7	1849.5	1240.0	1091.4	999.9	923.8	891.4	893.3
32.5°	15887.3	13830.2	7758.0	3219.0	1716.2	1062.8	940.9	900.9	891.4	853.3	834.3
35°	17060.6	14822.6	7963.7	3222.8	1653.3	948.6	838.1	767.6	716.2	672.4	672.4
37.5°	18435.8	15961.6	8182.7	3266.6	1630.5	881.9	801.9	731.4	683.8	641.9	634.2
40°	19795.8	17077.8	8382.7	3308.5	1617.1	841.9	773.4	708.6	664.7	622.9	611.4
42.5°	20952.0	17995.9	8561.7	3329.5	1571.4	838.1	752.4	693.4	651.4	605.7	594.2
45°	21807.2	18765.3	8754.1	3361.8	1525.7	853.3	752.4	691.4	640.0	596.2	584.7
47.5°	22571.0	19668.2	9076.0	3361.8	1470.5	824.7	777.1	693.4	638.1	592.4	582.9
50°	23593.8	20906.3	9685.5	3283.8	1392.3	794.2	819.1	685.7	620.9	584.7	573.4
52.5°	25003.3	22492.8	10653.1	3148.5	1272.3	735.2	813.3	681.9	603.8	565.7	552.4
55°	26670.0	24191.9	11708.3	2990.4	1093.3	693.4	784.7	672.4	584.7	542.9	529.5
57.5°	27970.9	25361.4	12451.2	2746.6	937.1	670.4	695.2	662.9	561.9	518.1	506.7
60°	28489.0	25315.7	12655.0	2420.9	860.9	651.4	607.6	742.9	542.9	499.0	485.7
62.5°	28209.0	24146.1	12083.6	2192.3	843.8	626.7	569.5	687.6	527.6	485.7	466.7
65°	26915.7	22073.8	10569.3	2131.4	893.3	601.9	544.7	539.0	506.7	466.7	447.6
67.5°	24098.6	18976.8	8462.7	2137.1	956.2	577.1	520.0	493.4	478.1	445.7	428.5
70°	19628.2	15003.5	6308.4	2152.3	988.6	548.6	493.4	464.7	447.6	415.2	403.8
72.5°	14432.1	11563.5	4582.7	2053.3	994.3	516.2	457.2	432.4	415.2	380.9	371.4
75°	9874.1	8845.6	3179.0	1701.0	866.6	470.5	417.2	394.2	382.9	340.9	335.2
77.5°	7213.2	6639.9	2034.2	1262.8	668.6	413.4	367.6	350.5	342.9	297.2	289.5
80°	5788.5	5253.3	1272.3	864.7	489.5	346.7	308.5	299.0	291.4	245.7	240.0
82.5°	4015.2	3518.0	817.1	561.9	367.6	268.5	243.8	240.0	228.5	186.7	181.0
85°	2118.0	1910.5	518.1	382.9	266.7	184.7	169.5	169.5	163.8	123.8	120.0
87.5°	270.5	440.0	262.9	200.0	146.7	81.9	81.9	80.0	85.7	70.5	61.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4
2.5°	9460.8	9552.2	9464.5	9470.3	9567.5	9856.9	9988.4	10096.9	10213.1	10289.4	10323.6
5°	6857.0	7070.3	7142.8	7295.1	7519.8	7889.4	8036.0	8142.7	8213.2	8255.1	8272.2
7.5°	4689.4	4818.9	4963.7	5209.4	5699.0	5916.0	6013.2	5988.5	5908.5	5879.9	5851.3
10°	3535.2	3483.8	3457.1	3592.3	3988.5	4207.5	4276.1	4209.4	4165.7	4175.2	4222.7
12.5°	2739.0	2649.4	2540.9	2525.7	2786.6	2982.8	3026.6	3030.4	3110.4	3180.9	3285.6
15°	1996.2	1986.7	1933.3	1900.9	2049.5	2209.5	2228.5	2262.8	2335.2	2386.6	2478.0
17.5°	1407.6	1459.0	1500.9	1521.8	1634.3	1748.5	1727.6	1710.5	1697.1	1697.1	1741.0
20°	1135.2	1169.5	1222.8	1283.8	1398.1	1478.1	1426.6	1358.1	1308.6	1293.3	1299.0
22.5°	1022.8	1049.5	1079.9	1133.3	1236.1	1291.4	1236.1	1186.6	1137.1	1119.9	1114.3
25°	965.7	999.9	1028.6	1068.6	1144.8	1182.8	1129.5	1093.3	1062.8	1041.9	1026.6
27.5°	933.3	963.8	971.4	990.4	1055.2	1089.5	1062.8	1047.6	1028.6	1009.6	990.4
30°	899.1	893.3	879.9	881.9	933.3	967.6	965.7	969.6	967.6	961.9	958.1
32.5°	820.9	809.5	798.1	809.5	857.1	887.6	889.5	897.1	897.1	895.2	910.4
35°	683.8	704.7	718.1	752.4	809.5	836.2	824.7	805.7	771.4	750.4	748.6
37.5°	632.4	636.2	659.0	706.7	769.5	794.2	777.1	733.4	710.4	706.7	712.4
40°	607.6	611.4	624.7	668.6	731.4	756.2	740.9	708.6	687.6	685.7	695.2
42.5°	590.4	594.2	601.9	632.4	683.8	714.2	716.2	693.4	668.6	670.4	680.0
45°	580.9	582.9	580.9	596.2	643.8	680.0	695.2	680.0	659.0	662.9	674.2
47.5°	579.0	573.4	565.7	569.5	619.0	655.2	674.2	668.6	659.0	662.9	672.4
50°	571.4	558.1	548.6	546.7	596.2	634.2	651.4	651.4	655.2	662.9	672.4
52.5°	548.6	533.4	533.4	527.6	580.9	617.1	628.6	630.4	636.2	649.5	662.9
55°	520.0	514.2	520.0	510.5	569.5	603.8	609.5	613.4	617.1	628.6	647.6
57.5°	495.2	487.6	500.9	497.2	560.0	590.4	590.4	598.1	598.1	613.4	628.6
60°	481.9	466.7	472.4	476.2	546.7	579.0	575.2	582.9	586.7	600.0	611.4
62.5°	464.7	451.4	451.4	460.9	531.4	561.9	560.0	565.7	580.9	584.7	596.2
65°	443.8	438.1	432.4	443.8	516.2	542.9	544.7	552.4	565.7	569.5	579.0
67.5°	422.9	424.7	413.4	424.7	502.9	523.8	523.8	539.0	544.7	552.4	561.9
70°	400.0	401.9	392.4	405.7	493.4	502.9	500.9	521.9	525.7	531.4	540.9
72.5°	371.4	371.4	367.6	386.7	478.1	481.9	478.1	495.2	497.2	502.9	506.7
75°	340.9	340.9	337.2	363.8	468.5	459.0	447.6	460.9	464.7	468.5	468.5
77.5°	301.0	304.7	304.7	337.2	436.2	449.5	411.4	419.0	424.7	426.7	420.9
80°	251.4	261.0	264.7	306.7	365.7	415.2	367.6	373.3	375.2	375.2	367.6
82.5°	192.4	209.5	219.0	264.7	280.0	348.5	320.0	325.7	320.0	308.5	304.7
85°	133.3	156.2	167.7	201.9	211.4	268.5	266.7	266.7	255.2	240.0	238.0
87.5°	72.4	85.7	93.3	120.0	144.7	181.0	196.2	190.5	181.0	171.4	173.3
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4
2.5°	10502.6	10761.6	11175.0	11491.2	11809.3	12115.9	12447.4	12700.7	12915.9	12999.8	13255.0
5°	8445.6	8769.3	9159.8	9864.5	10363.6	10914.1	11550.2	12392.1	12715.9	13163.5	13896.9
7.5°	5971.3	6264.7	6893.2	7462.7	8169.4	8948.4	9807.4	10969.3	11394.0	12112.1	13306.4
10°	4458.9	4799.9	5304.6	5784.7	6407.5	7203.6	8190.4	9489.3	10005.5	10784.6	12159.7
12.5°	3592.3	3994.2	4529.4	4980.8	5462.8	6024.7	6982.8	8407.4	9098.8	9780.7	11171.2
15°	2759.9	3180.9	3678.0	4251.4	4782.8	5388.5	6392.2	7950.3	8746.5	9457.0	10643.6
17.5°	1910.5	2270.4	2897.1	3495.2	4175.2	4950.4	6228.4	8047.5	8997.9	9817.0	10735.1
20°	1354.3	1560.0	2074.2	2767.6	3615.2	4588.4	6198.0	8557.9	9794.0	10729.3	11321.7
22.5°	1139.1	1215.2	1514.3	2150.4	3129.4	4318.0	6304.7	9274.1	10868.3	12062.6	12256.9
25°	1038.1	1083.8	1240.0	1687.6	2697.1	4121.8	6664.6	10340.7	12197.9	13396.0	13361.7
27.5°	982.9	1030.4	1133.3	1424.8	2371.4	3999.9	7024.6	11605.5	13717.8	14843.5	14416.9
30°	965.7	1030.4	1139.1	1342.8	2139.0	3807.5	7319.8	12715.9	14887.3	15820.7	14896.8
32.5°	952.4	961.9	1011.4	1158.1	1918.0	3582.8	7519.8	13712.1	16032.1	16750.1	15588.2
35°	769.5	817.1	897.1	1038.1	1788.5	3447.5	7519.8	14571.1	17159.7	17689.2	16247.3
37.5°	740.9	782.9	853.3	973.3	1716.2	3380.9	7369.3	15399.7	18312.0	18753.9	16790.1
40°	725.7	760.0	826.6	923.8	1685.7	3304.7	7150.3	16131.1	19437.7	19820.6	17296.8
42.5°	714.2	744.7	807.6	893.3	1645.7	3220.9	6973.1	16717.8	20414.8	20731.0	17780.6
45°	708.6	740.9	809.5	908.6	1565.7	3110.4	6914.1	17352.0	21218.7	21491.0	18304.4
47.5°	708.6	746.7	819.1	940.9	1470.5	2996.1	7098.9	18188.2	21978.6	22111.9	18921.5
50°	702.9	744.7	845.7	908.6	1331.4	2851.4	7533.2	19241.5	22801.5	22816.7	19702.4
52.5°	691.4	740.9	910.4	889.5	1171.4	2660.9	8119.9	20593.8	24018.6	24110.0	20925.3
55°	678.1	735.2	893.3	845.7	1039.9	2434.2	8599.8	22237.6	25729.1	25982.3	22723.3
57.5°	660.9	727.6	864.7	784.7	954.3	2142.8	8773.1	23441.4	26923.2	27559.4	24750.0
60°	645.7	721.9	780.9	748.6	900.9	1897.1	8437.9	23203.4	26841.4	28212.8	26546.1
62.5°	630.4	727.6	712.4	725.7	876.2	1739.0	7561.8	21296.7	25483.3	27538.4	27877.6
65°	613.4	676.2	672.4	706.7	870.4	1676.2	6268.4	18437.8	22858.6	25407.1	28191.8
67.5°	590.4	624.7	643.8	681.9	889.5	1621.0	5058.9	15209.2	19211.0	22212.9	26553.8
70°	565.7	594.2	615.2	651.4	878.1	1596.1	4207.5	11994.0	15243.5	18205.4	23321.4
72.5°	533.4	558.1	577.1	611.4	866.6	1582.8	3554.2	9658.8	11380.7	13523.5	18961.5
75°	495.2	518.1	531.4	565.7	830.4	1449.5	2794.2	8173.2	8516.1	9407.5	15102.5
77.5°	451.4	468.5	480.0	518.1	735.2	1205.6	2020.9	6304.7	6613.2	6830.3	11578.8
80°	400.0	417.2	422.9	459.0	609.5	942.9	1318.1	4657.1	4946.6	4996.1	7561.8
82.5°	340.9	358.1	358.1	392.4	499.0	678.1	864.7	3190.4	3247.6	3415.1	5344.6
85°	274.3	287.7	287.7	304.7	386.7	506.7	594.2	1601.8	1584.8	1809.5	4630.4
87.5°	196.2	205.7	215.2	219.0	276.2	335.2	358.1	487.6	321.9	369.5	2973.3
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: P191326

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4
2.5°	13447.3	13555.9	13445.5	13365.5	13020.7	12736.9	12357.9	12163.6
5°	14454.9	14731.1	14637.8	14302.6	13582.5	12773.1	11853.1	11437.8
7.5°	14333.1	14975.0	14990.2	14363.6	13302.6	12110.2	10864.6	10274.1
10°	13384.5	14205.4	14439.7	13832.1	12706.4	11373.1	9944.5	9270.3
12.5°	12325.4	13129.3	13308.3	13098.8	12157.9	10818.8	9369.3	8708.4
15°	11458.8	11818.8	12032.2	12215.0	11687.4	10597.9	9337.0	8611.3
17.5°	10931.3	10891.3	10952.1	11270.3	11359.8	10851.3	9832.2	9032.2
20°	10740.8	10129.4	10114.1	10552.1	11205.5	11455.0	10799.8	9839.8
22.5°	10845.5	9855.0	9729.3	10249.4	11287.3	12325.4	12068.4	10973.1
25°	11207.3	9877.9	9777.0	10279.8	11584.5	13253.0	13437.8	12439.8
27.5°	11776.9	10022.7	9889.3	10405.5	11978.9	14032.1	14786.3	13860.7
30°	12317.9	10274.1	10108.4	10653.1	12338.8	14340.6	15613.0	14969.2
32.5°	12975.0	10744.6	10453.1	11108.3	12784.5	14832.1	16350.1	15887.3
35°	13618.7	11415.0	11053.1	11811.2	13281.7	15443.5	17192.0	17060.6
37.5°	14325.4	12291.2	11992.2	12719.8	13961.6	16020.6	18266.3	18435.8
40°	15079.7	13453.0	13098.8	14045.4	15016.8	16744.4	19388.2	19795.8
42.5°	15839.7	14742.6	14319.7	15279.7	16176.8	17458.7	20348.1	20952.0
45°	16710.1	16142.6	15942.6	16980.6	17291.0	18138.7	21056.7	21807.2
47.5°	17723.4	17731.1	18052.9	18468.1	18414.9	18908.2	21769.1	22571.0
50°	18906.3	19713.9	20424.3	20700.5	19572.9	19734.9	22757.6	23593.8
52.5°	20327.2	22085.3	22965.2	22784.3	20820.5	20744.3	24323.3	25003.3
55°	22104.3	24595.7	25469.9	25340.4	22254.8	22119.6	26273.8	26670.0
57.5°	24161.4	27028.0	27831.8	27249.0	23976.6	23628.1	27887.1	27970.9
60°	25969.0	28955.6	29660.4	29014.7	25713.8	25233.7	28894.7	28489.0
62.5°	26974.7	29608.9	30104.1	29408.9	26904.2	26944.2	29115.6	28209.0
65°	26525.2	27957.6	28117.5	28060.4	26597.5	27936.6	28321.3	26915.7
67.5°	24064.3	23782.4	24050.9	24422.3	23969.1	26630.0	26121.4	24098.6
70°	19729.1	18180.6	18715.8	18965.3	19171.0	22915.7	22672.0	19628.2
72.5°	14868.3	12736.9	13159.8	13108.3	14060.7	18380.6	17632.0	14432.1
75°	10535.1	8636.1	8689.4	8668.4	9811.2	14380.6	12767.3	9874.1
77.5°	7371.3	6257.0	6285.6	6403.7	6596.1	10845.5	9121.8	7213.2
80°	5068.5	4748.4	4906.6	4916.1	4571.4	7285.6	6738.9	5788.5
82.5°	3775.2	3300.9	3262.8	3318.0	3582.8	5902.7	5178.9	4015.2
85°	3091.4	1954.2	1571.4	1969.5	3175.1	5845.6	3440.0	2118.0
87.5°	1741.0	927.6	419.0	777.1	1266.6	3870.4	994.3	270.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)