

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: P191325

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191325  
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-07-LED-E1-SLR-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 30580.1 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

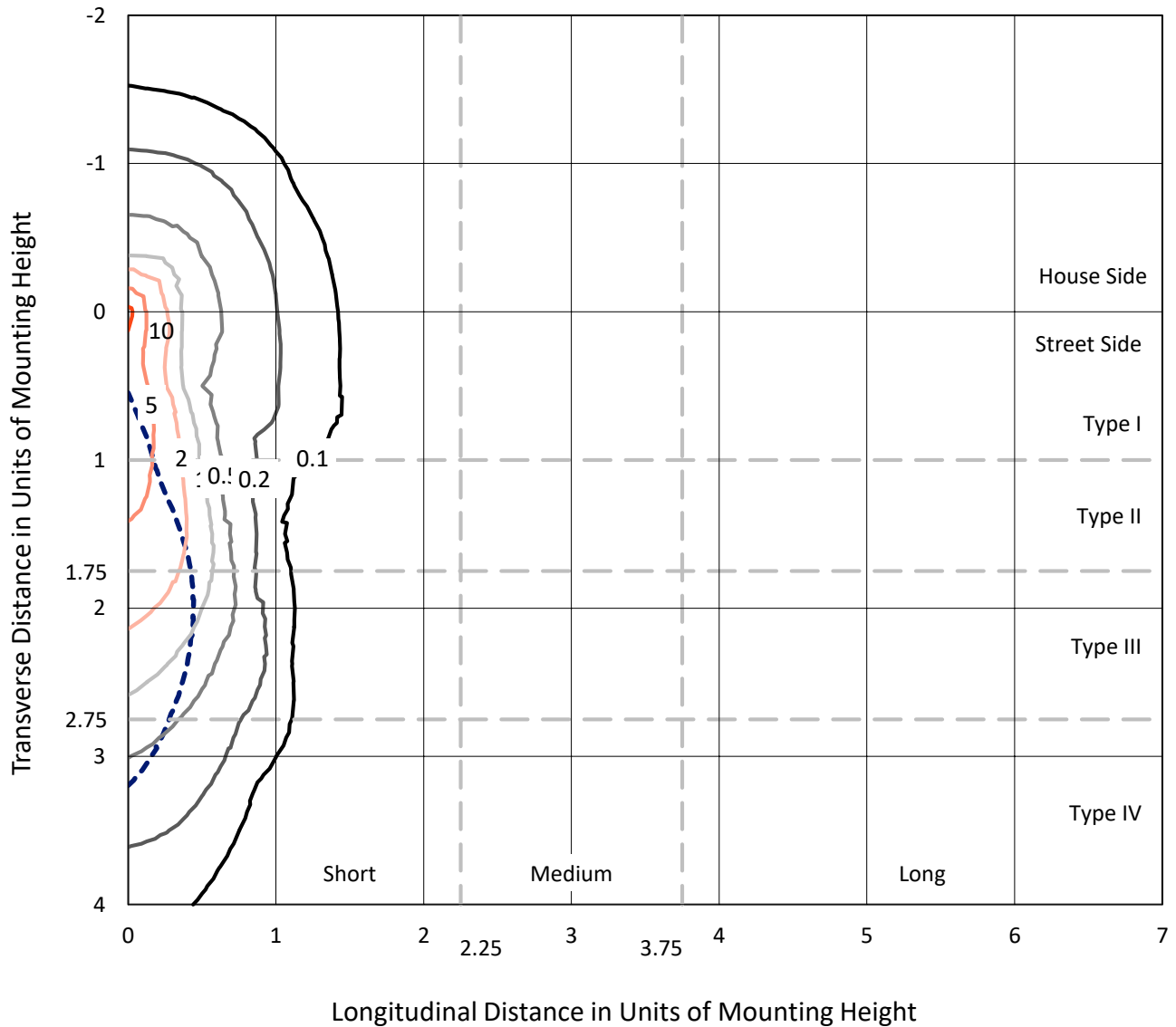
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-800

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

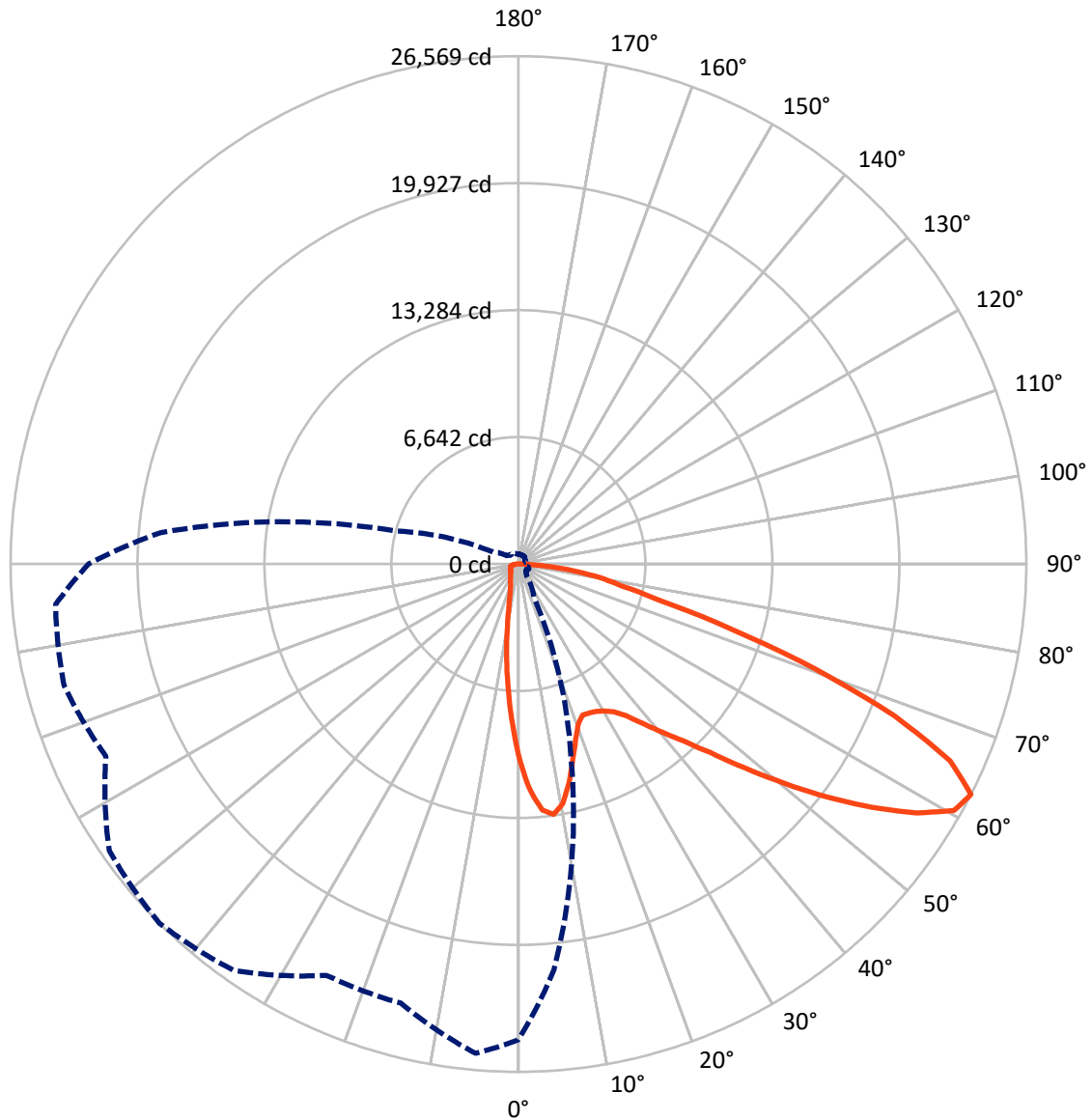


Based on 30 foot mounting height. Maximum calculated value = 11.5 fc  
 Type IV - Short - Non-Cutoff

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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	5060.6	0.0	5060.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	25519.5	0.0	25519.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	30580.1	0.0	30580.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.1	2.5
10°-20°	1379.1	4.5
20°-30°	2010.8	6.6
30°-40°	3096.9	10.1
40°-50°	4557.8	14.9
50°-60°	6685.3	21.9
60°-70°	7473.2	24.4
70°-80°	3658.8	12.0
80°-90°	966.0	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°	30580.1	100.0
0°-180°	30580.1	100.0



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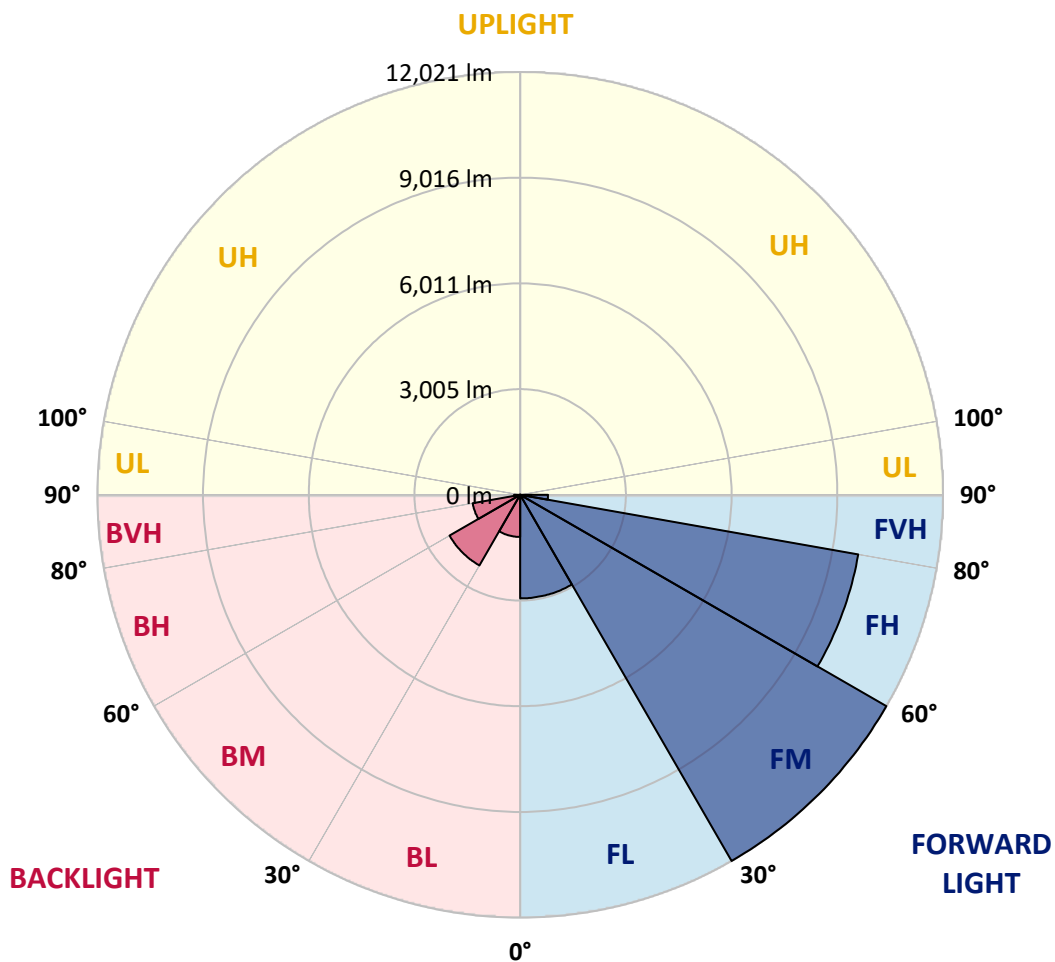
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2944.8	9.6			
FM	(30°-60°)	12021.3	39.3			
FH	(60°-80°)	9760.1	31.9			G4/12000
FVH	(80°-90°)	793.3	2.6			G5
BL	(0°-30°)	1197.3	3.9	B3/2500		
BM	(30°-60°)	2318.7	7.6	B2/2500		
BH	(60°-80°)	1371.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	172.7	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°	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6
2.5°	10735.1	10516.5	10153.4	9775.2	9544.8	9275.9	9065.8	8880.8	8511.1	8438.7	8504.3
5°	10094.6	9655.8	8971.7	8282.4	7823.5	7331.0	6947.7	6640.1	6171.1	6088.7	6187.8
7.5°	9067.4	8543.0	7638.6	6759.5	6110.5	5495.3	5081.7	4752.2	4385.8	4227.8	4237.9
10°	8181.6	7589.9	6520.7	5564.2	5033.0	4617.8	4269.8	3931.9	3560.4	3316.7	3249.4
12.5°	7685.6	7004.9	5772.6	4918.7	4426.1	3989.1	3614.2	3252.8	2856.1	2607.3	2536.7
15°	7599.9	6860.3	5491.9	4505.2	3888.2	3335.1	2893.0	2489.6	2081.1	1879.4	1837.3
17.5°	7971.4	7119.1	5401.2	4137.0	3382.2	2699.8	2156.8	1706.3	1373.4	1272.6	1264.2
20°	8684.2	7616.8	5389.4	3790.7	2883.0	2082.8	1502.8	1175.1	1028.8	1000.2	1001.9
22.5°	9684.4	8388.3	5534.0	3530.2	2424.1	1553.2	1129.6	983.4	926.3	899.4	899.4
25°	10978.8	9450.7	5866.8	3340.2	2025.6	1240.6	996.9	909.4	855.6	837.2	840.6
27.5°	12232.9	10484.5	6253.4	3190.6	1765.1	1126.3	944.7	865.7	818.7	800.2	808.5
30°	13211.2	11402.4	6576.1	2987.2	1632.3	1094.4	963.2	882.5	815.3	786.8	788.4
32.5°	14021.5	12206.0	6846.8	2840.9	1514.6	938.0	830.4	795.1	786.8	753.1	736.3
35°	15057.0	13081.8	7028.4	2844.3	1459.1	837.2	739.7	677.5	632.1	593.4	593.4
37.5°	16270.6	14087.1	7221.7	2883.0	1439.0	778.4	707.7	645.5	603.4	566.5	559.8
40°	17471.0	15072.1	7398.2	2919.9	1427.2	743.0	682.5	625.3	586.7	549.7	539.6
42.5°	18491.3	15882.3	7556.2	2938.4	1386.8	739.7	664.0	611.9	574.9	534.6	524.5
45°	19246.1	16561.5	7726.0	2967.0	1346.5	753.1	664.0	610.2	564.9	526.2	516.1
47.5°	19920.2	17358.4	8010.1	2967.0	1297.7	727.9	685.9	611.9	563.1	522.8	514.4
50°	20822.9	18451.0	8548.0	2898.1	1228.9	701.0	722.8	605.2	548.0	516.1	506.0
52.5°	22066.9	19851.3	9402.0	2778.7	1122.9	648.9	717.8	601.8	532.9	499.3	487.5
55°	23537.8	21350.7	10333.2	2639.2	964.9	611.9	692.5	593.4	516.1	479.0	467.3
57.5°	24686.0	22382.9	10988.8	2424.1	827.1	591.7	613.6	585.0	495.9	457.3	447.1
60°	25143.1	22342.6	11168.8	2136.6	759.8	574.9	536.2	655.6	479.0	440.4	428.6
62.5°	24896.1	21310.4	10664.5	1934.9	744.7	553.1	502.7	606.8	465.6	428.6	411.8
65°	23754.7	19481.5	9328.0	1881.1	788.4	531.2	480.8	475.8	447.1	411.8	395.1
67.5°	21268.4	16748.1	7468.8	1886.1	843.8	509.3	458.9	435.4	422.0	393.3	378.2
70°	17323.0	13241.5	5567.6	1899.5	872.5	484.2	435.4	410.2	395.1	366.4	356.4
72.5°	12737.2	10205.6	4044.5	1812.2	877.5	455.5	403.5	381.6	366.4	336.2	327.8
75°	8714.4	7806.6	2805.6	1501.2	764.9	415.2	368.2	348.0	337.9	301.0	295.8
77.5°	6366.0	5860.1	1795.4	1114.5	590.0	364.8	324.5	309.3	302.6	262.3	255.5
80°	5108.6	4636.3	1122.9	763.2	432.0	306.0	272.3	263.9	257.2	216.9	211.9
82.5°	3543.6	3104.9	721.2	495.9	324.5	237.0	215.1	211.9	201.7	164.7	159.7
85°	1869.3	1686.0	457.3	337.9	235.4	163.1	149.7	149.7	144.5	109.3	105.9
87.5°	238.8	388.3	232.0	176.5	129.4	72.3	72.3	70.6	75.6	62.2	53.8
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-07-LED-E1-SLR-800

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6
2.5°	8349.6	8430.3	8353.0	8358.1	8443.8	8699.3	8815.3	8911.1	9013.6	9080.9	9111.2
5°	6051.7	6240.0	6303.8	6438.4	6636.7	6962.8	7092.2	7186.4	7248.6	7285.6	7300.7
7.5°	4138.7	4253.0	4380.8	4597.7	5029.6	5221.2	5307.0	5285.2	5214.6	5189.3	5164.2
10°	3120.0	3074.6	3051.1	3170.4	3520.1	3713.4	3773.9	3715.1	3676.4	3684.8	3726.8
12.5°	2417.3	2338.3	2242.5	2229.0	2459.4	2632.5	2671.1	2674.5	2745.1	2807.3	2899.8
15°	1761.7	1753.3	1706.3	1677.6	1808.8	1949.9	1966.8	1997.1	2060.9	2106.4	2187.1
17.5°	1242.3	1287.7	1324.6	1343.1	1442.4	1543.2	1524.7	1509.6	1497.8	1497.8	1536.5
20°	1001.9	1032.2	1079.2	1133.0	1233.9	1304.5	1259.0	1198.6	1154.9	1141.4	1146.4
22.5°	902.8	926.3	953.2	1000.2	1091.0	1139.8	1091.0	1047.3	1003.6	988.5	983.4
25°	852.3	882.5	907.8	943.1	1010.3	1043.9	996.9	964.9	938.0	919.5	906.0
27.5°	823.7	850.6	857.3	874.1	931.3	961.6	938.0	924.5	907.8	891.0	874.1
30°	793.4	788.4	776.6	778.4	823.7	854.0	852.3	855.6	854.0	848.9	845.6
32.5°	724.6	714.4	704.3	714.4	756.5	783.4	785.0	791.8	791.8	790.1	803.5
35°	603.4	622.0	633.7	664.0	714.4	738.0	727.9	711.1	680.8	662.4	660.6
37.5°	558.1	561.5	581.6	623.7	679.1	701.0	685.9	647.2	627.1	623.7	628.7
40°	536.2	539.6	551.4	590.0	645.5	667.4	653.9	625.3	606.8	605.2	613.6
42.5°	521.1	524.5	531.2	558.1	603.4	630.3	632.1	611.9	590.0	591.7	600.2
45°	512.7	514.4	512.7	526.2	568.1	600.2	613.6	600.2	581.6	585.0	595.1
47.5°	511.1	506.0	499.3	502.7	546.4	578.3	595.1	590.0	581.6	585.0	593.4
50°	504.3	492.6	484.2	482.4	526.2	559.8	574.9	574.9	578.3	585.0	593.4
52.5°	484.2	470.7	470.7	465.6	512.7	544.6	554.7	556.4	561.5	573.3	585.0
55°	458.9	453.9	458.9	450.5	502.7	532.9	538.0	541.2	544.6	554.7	571.5
57.5°	437.1	430.4	442.1	438.7	494.2	521.1	521.1	527.8	527.8	541.2	554.7
60°	425.3	411.8	416.9	420.2	482.4	511.1	507.7	514.4	517.7	529.5	539.6
62.5°	410.2	398.4	398.4	406.8	469.0	495.9	494.2	499.3	512.7	516.1	526.2
65°	391.7	386.7	381.6	391.7	455.5	479.0	480.8	487.5	499.3	502.7	511.1
67.5°	373.2	374.9	364.8	374.9	443.8	462.3	462.3	475.8	480.8	487.5	495.9
70°	353.0	354.7	346.3	358.0	435.4	443.8	442.1	460.6	464.0	469.0	477.4
72.5°	327.8	327.8	324.5	341.3	422.0	425.3	422.0	437.1	438.7	443.8	447.1
75°	301.0	301.0	297.6	321.1	413.6	405.1	395.1	406.8	410.2	413.6	413.6
77.5°	265.6	268.9	268.9	297.6	384.9	396.7	363.1	369.8	374.9	376.5	371.5
80°	221.9	230.3	233.6	270.7	322.7	366.4	324.5	329.5	331.1	331.1	324.5
82.5°	169.8	184.9	193.3	233.6	247.1	307.6	282.4	287.4	282.4	272.3	268.9
85°	117.6	137.9	147.9	178.2	186.6	237.0	235.4	235.4	225.3	211.9	210.1
87.5°	63.8	75.6	82.3	105.9	127.8	159.7	173.2	168.1	159.7	151.3	152.9
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°	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6
2.5°	9269.2	9497.8	9862.6	10141.6	10422.3	10693.0	10985.6	11209.1	11399.0	11473.0	11698.3
5°	7453.7	7739.4	8084.1	8706.0	9146.5	9632.3	10193.8	10936.8	11222.6	11617.6	12264.8
7.5°	5270.0	5528.9	6083.7	6586.3	7210.0	7897.5	8655.6	9681.0	10055.9	10689.6	11743.7
10°	3935.3	4236.1	4681.6	5105.2	5655.0	6357.6	7228.4	8374.9	8830.4	9517.9	10731.7
12.5°	3170.4	3525.1	3997.5	4395.9	4821.2	5317.1	6162.7	7420.1	8030.3	8632.1	9859.2
15°	2435.9	2807.3	3246.0	3752.1	4221.1	4755.6	5641.6	7016.6	7719.3	8346.4	9393.6
17.5°	1686.0	2003.8	2556.9	3084.7	3684.8	4369.0	5496.9	7102.3	7941.2	8664.0	9474.3
20°	1195.2	1376.8	1830.7	2442.5	3190.6	4049.6	5470.0	7552.9	8643.8	9469.3	9992.1
22.5°	1005.3	1072.5	1336.4	1897.9	2762.0	3810.9	5564.2	8184.9	9591.9	10646.0	10817.4
25°	916.2	956.5	1094.4	1489.4	2380.3	3637.7	5882.0	9126.3	10765.3	11822.7	11792.4
27.5°	867.4	909.4	1000.2	1257.4	2092.9	3530.2	6199.6	10242.5	12106.7	13100.2	12723.7
30°	852.3	909.4	1005.3	1185.1	1887.8	3360.4	6460.2	11222.6	13138.9	13962.7	13147.4
32.5°	840.6	848.9	892.6	1022.0	1692.8	3162.0	6636.7	12101.7	14149.3	14783.0	13757.6
35°	679.1	721.2	791.8	916.2	1578.5	3042.7	6636.7	12859.8	15144.4	15611.8	14339.2
37.5°	653.9	690.9	753.1	859.0	1514.6	2983.8	6503.9	13591.1	16161.4	16551.4	14818.3
40°	640.5	670.7	729.6	815.3	1487.7	2916.5	6310.6	14236.6	17154.9	17492.8	15265.4
42.5°	630.3	657.2	712.8	788.4	1452.4	2842.6	6154.3	14754.4	18017.2	18296.3	15692.4
45°	625.3	653.9	714.4	801.9	1381.8	2745.1	6102.1	15314.2	18726.6	18967.0	16154.6
47.5°	625.3	659.0	722.8	830.4	1297.7	2644.2	6265.2	16052.1	19397.4	19515.0	16699.4
50°	620.3	657.2	746.3	801.9	1175.1	2516.5	6648.5	16981.8	20123.6	20137.0	17388.5
52.5°	610.2	653.9	803.5	785.0	1033.8	2348.4	7166.2	18175.3	21197.8	21278.5	18467.7
55°	598.4	648.9	788.4	746.3	917.8	2148.4	7589.9	19626.0	22707.4	22930.9	20054.6
57.5°	583.3	642.1	763.2	692.5	842.2	1891.1	7742.8	20688.5	23761.3	24322.8	21843.3
60°	569.9	637.1	689.3	660.6	795.1	1674.3	7447.0	20478.2	23689.1	24899.4	23428.5
62.5°	556.4	642.1	628.7	640.5	773.2	1534.7	6673.7	18795.6	22490.5	24304.3	24603.5
65°	541.2	596.8	593.4	623.7	768.2	1479.3	5532.2	16272.4	20174.0	22423.3	24880.9
67.5°	521.1	551.4	568.1	601.8	785.0	1430.6	4464.8	13423.1	16954.9	19604.1	23435.2
70°	499.3	524.5	543.0	574.9	775.0	1408.7	3713.4	10585.4	13453.2	16067.3	20582.5
72.5°	470.7	492.6	509.3	539.6	764.9	1396.9	3136.8	8524.5	10044.1	11935.3	16734.7
75°	437.1	457.3	469.0	499.3	732.9	1279.3	2466.0	7213.3	7515.9	8302.6	13328.8
77.5°	398.4	413.6	423.6	457.3	648.9	1064.1	1783.6	5564.2	5836.5	6028.1	10219.0
80°	353.0	368.2	373.2	405.1	538.0	832.1	1163.3	4110.1	4365.6	4409.3	6673.7
82.5°	301.0	316.0	316.0	346.3	440.4	598.4	763.2	2815.7	2866.1	3014.1	4716.9
85°	242.0	253.8	253.8	268.9	341.3	447.1	524.5	1413.7	1398.6	1596.9	4086.6
87.5°	173.2	181.6	190.0	193.3	243.8	295.8	316.0	430.4	284.1	326.1	2624.1
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: P191325

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6	10331.6
2.5°	11868.1	11963.9	11866.3	11795.7	11491.5	11241.0	10906.5	10735.1
5°	12757.3	13001.1	12918.7	12622.8	11987.4	11273.0	10461.0	10094.6
7.5°	12649.7	13216.2	13229.7	12676.6	11740.3	10688.0	9588.6	9067.4
10°	11812.6	12537.1	12743.9	12207.6	11214.1	10037.4	8776.6	8181.6
12.5°	10878.0	11587.4	11745.3	11560.5	10730.0	9548.2	8269.0	7685.6
15°	10113.1	10430.8	10619.0	10780.5	10314.8	9353.2	8240.4	7599.9
17.5°	9647.4	9612.2	9666.0	9946.7	10025.6	9576.9	8677.5	7971.4
20°	9479.3	8939.7	8926.3	9312.9	9889.5	10109.7	9531.4	8684.2
22.5°	9571.8	8697.6	8586.6	9045.6	9961.8	10878.0	10651.0	9684.4
25°	9891.2	8717.8	8628.7	9072.6	10224.0	11696.6	11859.7	10978.8
27.5°	10393.8	8845.6	8727.9	9183.4	10572.0	12384.1	13049.8	12232.9
30°	10871.2	9067.4	8921.3	9402.0	10889.7	12656.5	13779.4	13211.2
32.5°	11451.2	9482.7	9225.5	9803.8	11283.0	13090.2	14429.9	14021.5
35°	12019.4	10074.4	9755.0	10424.1	11721.8	13629.8	15172.9	15057.0
37.5°	12643.1	10847.7	10583.8	11225.9	12322.0	14139.1	16121.1	16270.6
40°	13308.7	11873.1	11560.5	12395.9	13253.2	14778.0	17111.2	17471.0
42.5°	13979.4	13011.1	12637.9	13485.3	14277.0	15408.3	17958.4	18491.3
45°	14747.7	14246.7	14070.2	14986.3	15260.4	16008.5	18583.7	19246.1
47.5°	15641.9	15648.7	15932.8	16299.3	16252.2	16687.6	19212.4	19920.2
50°	16685.9	17398.7	18025.6	18269.4	17274.3	17417.2	20084.9	20822.9
52.5°	17939.9	19491.5	20268.1	20108.5	18375.4	18308.1	21466.7	22066.9
55°	19508.4	21707.1	22478.7	22364.4	19641.2	19521.8	23188.1	23537.8
57.5°	21323.8	23853.8	24563.2	24048.8	21160.8	20853.2	24611.9	24686.0
60°	22919.1	25554.9	26177.0	25607.1	22693.9	22270.3	25501.2	25143.1
62.5°	23806.7	26131.6	26568.7	25955.1	23744.5	23779.8	25696.2	24896.1
65°	23410.0	24674.2	24815.4	24764.9	23473.9	24655.7	24995.2	23754.7
67.5°	21238.1	20989.3	21226.3	21554.2	21154.1	23502.5	23053.6	21268.4
70°	17412.1	16045.4	16517.8	16738.0	16919.5	20224.5	20009.3	17323.0
72.5°	13122.1	11241.0	11614.3	11568.9	12409.3	16222.0	15561.3	12737.2
75°	9297.8	7621.8	7668.9	7650.3	8659.0	12691.8	11267.9	8714.4
77.5°	6505.6	5522.2	5547.4	5651.6	5821.4	9571.8	8050.4	6366.0
80°	4473.3	4190.8	4330.4	4338.7	4034.5	6430.0	5947.4	5108.6
82.5°	3331.8	2913.3	2879.6	2928.4	3162.0	5209.5	4570.7	3543.6
85°	2728.3	1724.7	1386.8	1738.2	2802.3	5159.0	3035.9	1869.3
87.5°	1536.5	818.7	369.8	685.9	1117.9	3415.8	877.5	238.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)