

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: P191285

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191285
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-SLL-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 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

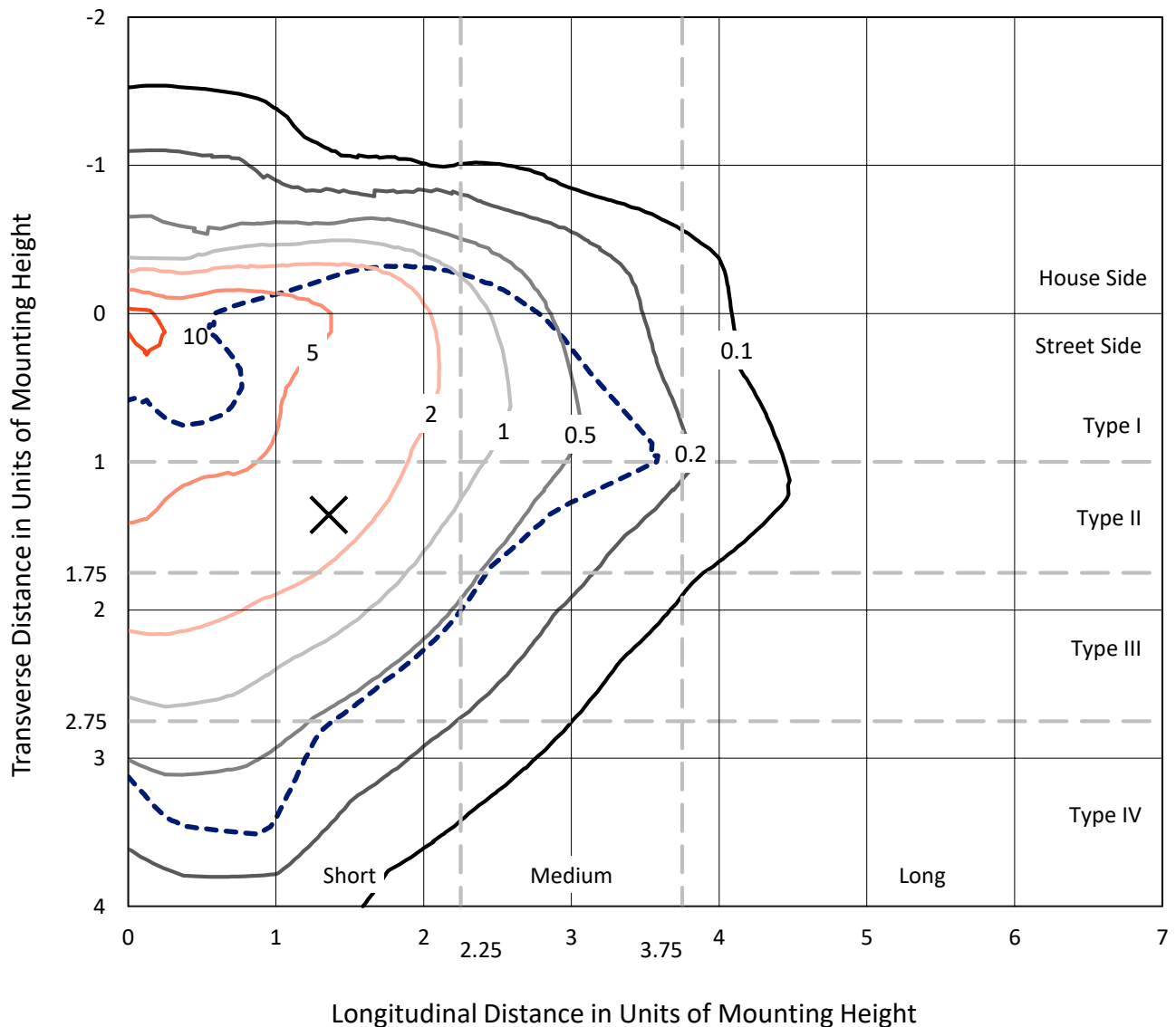
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

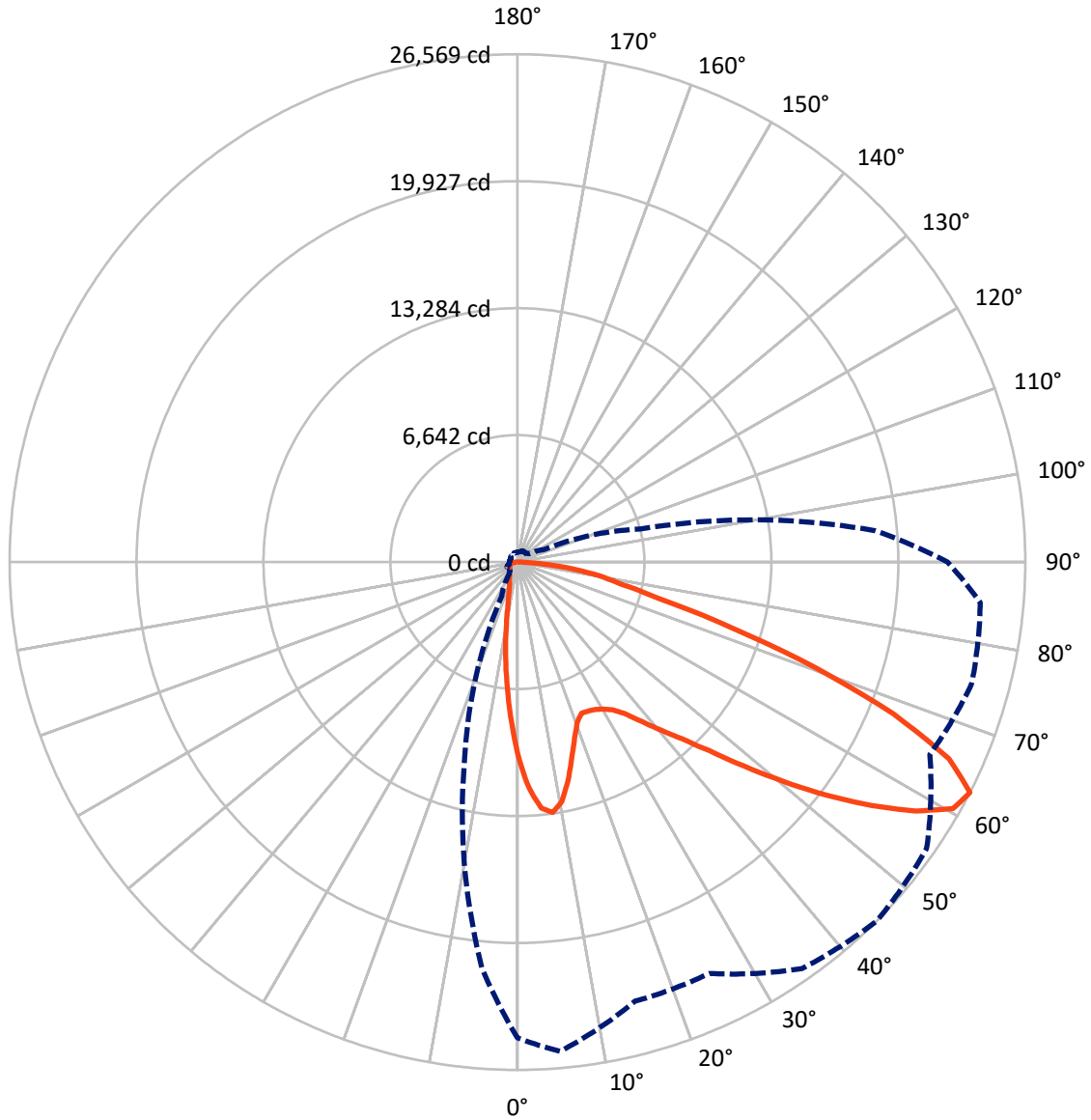
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 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	5060.6	0.0	5060.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	25519.5	0.0	25519.5
	% Fixture	83.5	0.0	83.5
Total	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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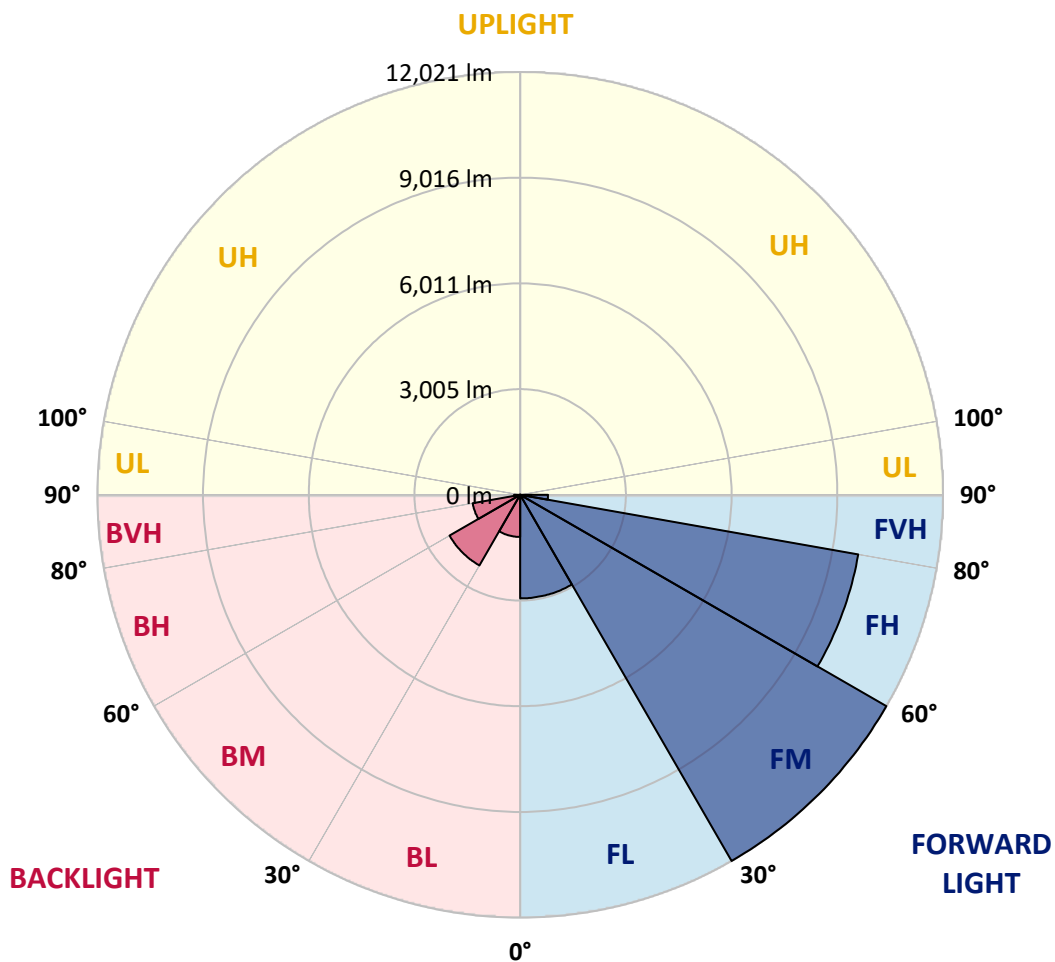
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	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	10906.5	11241.0	11491.5	11795.7	11866.3	11963.9	11868.1	11698.3	11473.0	11399.0
5°	10094.6	10461.0	11273.0	11987.4	12622.8	12918.7	13001.1	12757.3	12264.8	11617.6	11222.6
7.5°	9067.4	9588.6	10688.0	11740.3	12676.6	13229.7	13216.2	12649.7	11743.7	10689.6	10055.9
10°	8181.6	8776.6	10037.4	11214.1	12207.6	12743.9	12537.1	11812.6	10731.7	9517.9	8830.4
12.5°	7685.6	8269.0	9548.2	10730.0	11560.5	11745.3	11587.4	10878.0	9859.2	8632.1	8030.3
15°	7599.9	8240.4	9353.2	10314.8	10780.5	10619.0	10430.8	10113.1	9393.6	8346.4	7719.3
17.5°	7971.4	8677.5	9576.9	10025.6	9946.7	9666.0	9612.2	9647.4	9474.3	8664.0	7941.2
20°	8684.2	9531.4	10109.7	9889.5	9312.9	8926.3	8939.7	9479.3	9992.1	9469.3	8643.8
22.5°	9684.4	10651.0	10878.0	9961.8	9045.6	8586.6	8697.6	9571.8	10817.4	10646.0	9591.9
25°	10978.8	11859.7	11696.6	10224.0	9072.6	8628.7	8717.8	9891.2	11792.4	11822.7	10765.3
27.5°	12232.9	13049.8	12384.1	10572.0	9183.4	8727.9	8845.6	10393.8	12723.7	13100.2	12106.7
30°	13211.2	13779.4	12656.5	10889.7	9402.0	8921.3	9067.4	10871.2	13147.4	13962.7	13138.9
32.5°	14021.5	14429.9	13090.2	11283.0	9803.8	9225.5	9482.7	11451.2	13757.6	14783.0	14149.3
35°	15057.0	15172.9	13629.8	11721.8	10424.1	9755.0	10074.4	12019.4	14339.2	15611.8	15144.4
37.5°	16270.6	16121.1	14139.1	12322.0	11225.9	10583.8	10847.7	12643.1	14818.3	16551.4	16161.4
40°	17471.0	17111.2	14778.0	13253.2	12395.9	11560.5	11873.1	13308.7	15265.4	17492.8	17154.9
42.5°	18491.3	17958.4	15408.3	14277.0	13485.3	12637.9	13011.1	13979.4	15692.4	18296.3	18017.2
45°	19246.1	18583.7	16008.5	15260.4	14986.3	14070.2	14246.7	14747.7	16154.6	18967.0	18726.6
47.5°	19920.2	19212.4	16687.6	16252.2	16299.3	15932.8	15648.7	15641.9	16699.4	19515.0	19397.4
50°	20822.9	20084.9	17417.2	17274.3	18269.4	18025.6	17398.7	16685.9	17388.5	20137.0	20123.6
52.5°	22066.9	21466.7	18308.1	18375.4	20108.5	20268.1	19491.5	17939.9	18467.7	21278.5	21197.8
55°	23537.8	23188.1	19521.8	19641.2	22364.4	22478.7	21707.1	19508.4	20054.6	22930.9	22707.4
57.5°	24686.0	24611.9	20853.2	21160.8	24048.8	24563.2	23853.8	21323.8	21843.3	24322.8	23761.3
60°	25143.1	25501.2	22270.3	22693.9	25607.1	26177.0	25554.9	22919.1	23428.5	24899.4	23689.1
62.5°	24896.1	25696.2	23779.8	23744.5	25955.1	26568.7	26131.6	23806.7	24603.5	24304.3	22490.5
65°	23754.7	24995.2	24655.7	23473.9	24764.9	24815.4	24674.2	23410.0	24880.9	22423.3	20174.0
67.5°	21268.4	23053.6	23502.5	21154.1	21554.2	21226.3	20989.3	21238.1	23435.2	19604.1	16954.9
70°	17323.0	20009.3	20224.5	16919.5	16738.0	16517.8	16045.4	17412.1	20582.5	16067.3	13453.2
72.5°	12737.2	15561.3	16222.0	12409.3	11568.9	11614.3	11241.0	13122.1	16734.7	11935.3	10044.1
75°	8714.4	11267.9	12691.8	8659.0	7650.3	7668.9	7621.8	9297.8	13328.8	8302.6	7515.9
77.5°	6366.0	8050.4	9571.8	5821.4	5651.6	5547.4	5522.2	6505.6	10219.0	6028.1	5836.5
80°	5108.6	5947.4	6430.0	4034.5	4338.7	4330.4	4190.8	4473.3	6673.7	4409.3	4365.6
82.5°	3543.6	4570.7	5209.5	3162.0	2928.4	2879.6	2913.3	3331.8	4716.9	3014.1	2866.1
85°	1869.3	3035.9	5159.0	2802.3	1738.2	1386.8	1724.7	2728.3	4086.6	1596.9	1398.6
87.5°	238.8	877.5	3415.8	1117.9	685.9	369.8	818.7	1536.5	2624.1	326.1	284.1
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):

	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°	11209.1	10985.6	10693.0	10422.3	10141.6	9862.6	9497.8	9269.2	9111.2	9080.9	9013.6
5°	10936.8	10193.8	9632.3	9146.5	8706.0	8084.1	7739.4	7453.7	7300.7	7285.6	7248.6
7.5°	9681.0	8655.6	7897.5	7210.0	6586.3	6083.7	5528.9	5270.0	5164.2	5189.3	5214.6
10°	8374.9	7228.4	6357.6	5655.0	5105.2	4681.6	4236.1	3935.3	3726.8	3684.8	3676.4
12.5°	7420.1	6162.7	5317.1	4821.2	4395.9	3997.5	3525.1	3170.4	2899.8	2807.3	2745.1
15°	7016.6	5641.6	4755.6	4221.1	3752.1	3246.0	2807.3	2435.9	2187.1	2106.4	2060.9
17.5°	7102.3	5496.9	4369.0	3684.8	3084.7	2556.9	2003.8	1686.0	1536.5	1497.8	1497.8
20°	7552.9	5470.0	4049.6	3190.6	2442.5	1830.7	1376.8	1195.2	1146.4	1141.4	1154.9
22.5°	8184.9	5564.2	3810.9	2762.0	1897.9	1336.4	1072.5	1005.3	983.4	988.5	1003.6
25°	9126.3	5882.0	3637.7	2380.3	1489.4	1094.4	956.5	916.2	906.0	919.5	938.0
27.5°	10242.5	6199.6	3530.2	2092.9	1257.4	1000.2	909.4	867.4	874.1	891.0	907.8
30°	11222.6	6460.2	3360.4	1887.8	1185.1	1005.3	909.4	852.3	845.6	848.9	854.0
32.5°	12101.7	6636.7	3162.0	1692.8	1022.0	892.6	848.9	840.6	803.5	790.1	791.8
35°	12859.8	6636.7	3042.7	1578.5	916.2	791.8	721.2	679.1	660.6	662.4	680.8
37.5°	13591.1	6503.9	2983.8	1514.6	859.0	753.1	690.9	653.9	628.7	623.7	627.1
40°	14236.6	6310.6	2916.5	1487.7	815.3	729.6	670.7	640.5	613.6	605.2	606.8
42.5°	14754.4	6154.3	2842.6	1452.4	788.4	712.8	657.2	630.3	600.2	591.7	590.0
45°	15314.2	6102.1	2745.1	1381.8	801.9	714.4	653.9	625.3	595.1	585.0	581.6
47.5°	16052.1	6265.2	2644.2	1297.7	830.4	722.8	659.0	625.3	593.4	585.0	581.6
50°	16981.8	6648.5	2516.5	1175.1	801.9	746.3	657.2	620.3	593.4	585.0	578.3
52.5°	18175.3	7166.2	2348.4	1033.8	785.0	803.5	653.9	610.2	585.0	573.3	561.5
55°	19626.0	7589.9	2148.4	917.8	746.3	788.4	648.9	598.4	571.5	554.7	544.6
57.5°	20688.5	7742.8	1891.1	842.2	692.5	763.2	642.1	583.3	554.7	541.2	527.8
60°	20478.2	7447.0	1674.3	795.1	660.6	689.3	637.1	569.9	539.6	529.5	517.7
62.5°	18795.6	6673.7	1534.7	773.2	640.5	628.7	642.1	556.4	526.2	516.1	512.7
65°	16272.4	5532.2	1479.3	768.2	623.7	593.4	596.8	541.2	511.1	502.7	499.3
67.5°	13423.1	4464.8	1430.6	785.0	601.8	568.1	551.4	521.1	495.9	487.5	480.8
70°	10585.4	3713.4	1408.7	775.0	574.9	543.0	524.5	499.3	477.4	469.0	464.0
72.5°	8524.5	3136.8	1396.9	764.9	539.6	509.3	492.6	470.7	447.1	443.8	438.7
75°	7213.3	2466.0	1279.3	732.9	499.3	469.0	457.3	437.1	413.6	413.6	410.2
77.5°	5564.2	1783.6	1064.1	648.9	457.3	423.6	413.6	398.4	371.5	376.5	374.9
80°	4110.1	1163.3	832.1	538.0	405.1	373.2	368.2	353.0	324.5	331.1	331.1
82.5°	2815.7	763.2	598.4	440.4	346.3	316.0	316.0	301.0	268.9	272.3	282.4
85°	1413.7	524.5	447.1	341.3	268.9	253.8	253.8	242.0	210.1	211.9	225.3
87.5°	430.4	316.0	295.8	243.8	193.3	190.0	181.6	173.2	152.9	151.3	159.7
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°	8911.1	8815.3	8699.3	8443.8	8358.1	8353.0	8430.3	8349.6	8504.3	8438.7	8511.1
5°	7186.4	7092.2	6962.8	6636.7	6438.4	6303.8	6240.0	6051.7	6187.8	6088.7	6171.1
7.5°	5285.2	5307.0	5221.2	5029.6	4597.7	4380.8	4253.0	4138.7	4237.9	4227.8	4385.8
10°	3715.1	3773.9	3713.4	3520.1	3170.4	3051.1	3074.6	3120.0	3249.4	3316.7	3560.4
12.5°	2674.5	2671.1	2632.5	2459.4	2229.0	2242.5	2338.3	2417.3	2536.7	2607.3	2856.1
15°	1997.1	1966.8	1949.9	1808.8	1677.6	1706.3	1753.3	1761.7	1837.3	1879.4	2081.1
17.5°	1509.6	1524.7	1543.2	1442.4	1343.1	1324.6	1287.7	1242.3	1264.2	1272.6	1373.4
20°	1198.6	1259.0	1304.5	1233.9	1133.0	1079.2	1032.2	1001.9	1001.9	1000.2	1028.8
22.5°	1047.3	1091.0	1139.8	1091.0	1000.2	953.2	926.3	902.8	899.4	899.4	926.3
25°	964.9	996.9	1043.9	1010.3	943.1	907.8	882.5	852.3	840.6	837.2	855.6
27.5°	924.5	938.0	961.6	931.3	874.1	857.3	850.6	823.7	808.5	800.2	818.7
30°	855.6	852.3	854.0	823.7	778.4	776.6	788.4	793.4	788.4	786.8	815.3
32.5°	791.8	785.0	783.4	756.5	714.4	704.3	714.4	724.6	736.3	753.1	786.8
35°	711.1	727.9	738.0	714.4	664.0	633.7	622.0	603.4	593.4	593.4	632.1
37.5°	647.2	685.9	701.0	679.1	623.7	581.6	561.5	558.1	559.8	566.5	603.4
40°	625.3	653.9	667.4	645.5	590.0	551.4	539.6	536.2	539.6	549.7	586.7
42.5°	611.9	632.1	630.3	603.4	558.1	531.2	524.5	521.1	524.5	534.6	574.9
45°	600.2	613.6	600.2	568.1	526.2	512.7	514.4	512.7	516.1	526.2	564.9
47.5°	590.0	595.1	578.3	546.4	502.7	499.3	506.0	511.1	514.4	522.8	563.1
50°	574.9	574.9	559.8	526.2	482.4	484.2	492.6	504.3	506.0	516.1	548.0
52.5°	556.4	554.7	544.6	512.7	465.6	470.7	470.7	484.2	487.5	499.3	532.9
55°	541.2	538.0	532.9	502.7	450.5	458.9	453.9	458.9	467.3	479.0	516.1
57.5°	527.8	521.1	521.1	494.2	438.7	442.1	430.4	437.1	447.1	457.3	495.9
60°	514.4	507.7	511.1	482.4	420.2	416.9	411.8	425.3	428.6	440.4	479.0
62.5°	499.3	494.2	495.9	469.0	406.8	398.4	398.4	410.2	411.8	428.6	465.6
65°	487.5	480.8	479.0	455.5	391.7	381.6	386.7	391.7	395.1	411.8	447.1
67.5°	475.8	462.3	462.3	443.8	374.9	364.8	374.9	373.2	378.2	393.3	422.0
70°	460.6	442.1	443.8	435.4	358.0	346.3	354.7	353.0	356.4	366.4	395.1
72.5°	437.1	422.0	425.3	422.0	341.3	324.5	327.8	327.8	327.8	336.2	366.4
75°	406.8	395.1	405.1	413.6	321.1	297.6	301.0	301.0	295.8	301.0	337.9
77.5°	369.8	363.1	396.7	384.9	297.6	268.9	268.9	265.6	255.5	262.3	302.6
80°	329.5	324.5	366.4	322.7	270.7	233.6	230.3	221.9	211.9	216.9	257.2
82.5°	287.4	282.4	307.6	247.1	233.6	193.3	184.9	169.8	159.7	164.7	201.7
85°	235.4	235.4	237.0	186.6	178.2	147.9	137.9	117.6	105.9	109.3	144.5
87.5°	168.1	173.2	159.7	127.8	105.9	82.3	75.6	63.8	53.8	62.2	75.6
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: P191285

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-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°	8880.8	9065.8	9275.9	9544.8	9775.2	10153.4	10516.5	10735.1
5°	6640.1	6947.7	7331.0	7823.5	8282.4	8971.7	9655.8	10094.6
7.5°	4752.2	5081.7	5495.3	6110.5	6759.5	7638.6	8543.0	9067.4
10°	3931.9	4269.8	4617.8	5033.0	5564.2	6520.7	7589.9	8181.6
12.5°	3252.8	3614.2	3989.1	4426.1	4918.7	5772.6	7004.9	7685.6
15°	2489.6	2893.0	3335.1	3888.2	4505.2	5491.9	6860.3	7599.9
17.5°	1706.3	2156.8	2699.8	3382.2	4137.0	5401.2	7119.1	7971.4
20°	1175.1	1502.8	2082.8	2883.0	3790.7	5389.4	7616.8	8684.2
22.5°	983.4	1129.6	1553.2	2424.1	3530.2	5534.0	8388.3	9684.4
25°	909.4	996.9	1240.6	2025.6	3340.2	5866.8	9450.7	10978.8
27.5°	865.7	944.7	1126.3	1765.1	3190.6	6253.4	10484.5	12232.9
30°	882.5	963.2	1094.4	1632.3	2987.2	6576.1	11402.4	13211.2
32.5°	795.1	830.4	938.0	1514.6	2840.9	6846.8	12206.0	14021.5
35°	677.5	739.7	837.2	1459.1	2844.3	7028.4	13081.8	15057.0
37.5°	645.5	707.7	778.4	1439.0	2883.0	7221.7	14087.1	16270.6
40°	625.3	682.5	743.0	1427.2	2919.9	7398.2	15072.1	17471.0
42.5°	611.9	664.0	739.7	1386.8	2938.4	7556.2	15882.3	18491.3
45°	610.2	664.0	753.1	1346.5	2967.0	7726.0	16561.5	19246.1
47.5°	611.9	685.9	727.9	1297.7	2967.0	8010.1	17358.4	19920.2
50°	605.2	722.8	701.0	1228.9	2898.1	8548.0	18451.0	20822.9
52.5°	601.8	717.8	648.9	1122.9	2778.7	9402.0	19851.3	22066.9
55°	593.4	692.5	611.9	964.9	2639.2	10333.2	21350.7	23537.8
57.5°	585.0	613.6	591.7	827.1	2424.1	10988.8	22382.9	24686.0
60°	655.6	536.2	574.9	759.8	2136.6	11168.8	22342.6	25143.1
62.5°	606.8	502.7	553.1	744.7	1934.9	10664.5	21310.4	24896.1
65°	475.8	480.8	531.2	788.4	1881.1	9328.0	19481.5	23754.7
67.5°	435.4	458.9	509.3	843.8	1886.1	7468.8	16748.1	21268.4
70°	410.2	435.4	484.2	872.5	1899.5	5567.6	13241.5	17323.0
72.5°	381.6	403.5	455.5	877.5	1812.2	4044.5	10205.6	12737.2
75°	348.0	368.2	415.2	764.9	1501.2	2805.6	7806.6	8714.4
77.5°	309.3	324.5	364.8	590.0	1114.5	1795.4	5860.1	6366.0
80°	263.9	272.3	306.0	432.0	763.2	1122.9	4636.3	5108.6
82.5°	211.9	215.1	237.0	324.5	495.9	721.2	3104.9	3543.6
85°	149.7	149.7	163.1	235.4	337.9	457.3	1686.0	1869.3
87.5°	70.6	72.3	72.3	129.4	176.5	232.0	388.3	238.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)