

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: P191286

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191286  
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-SLL-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 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

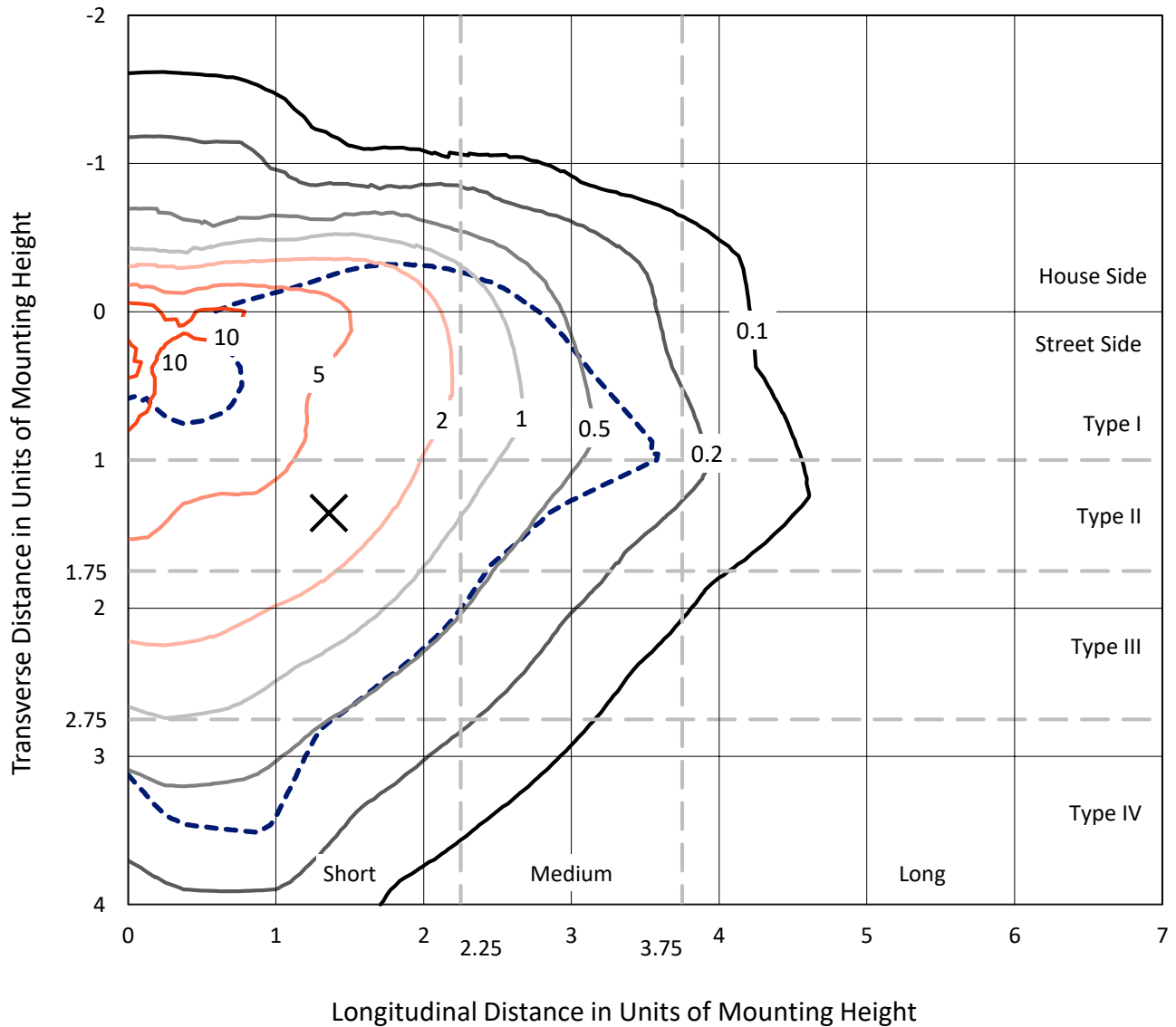
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

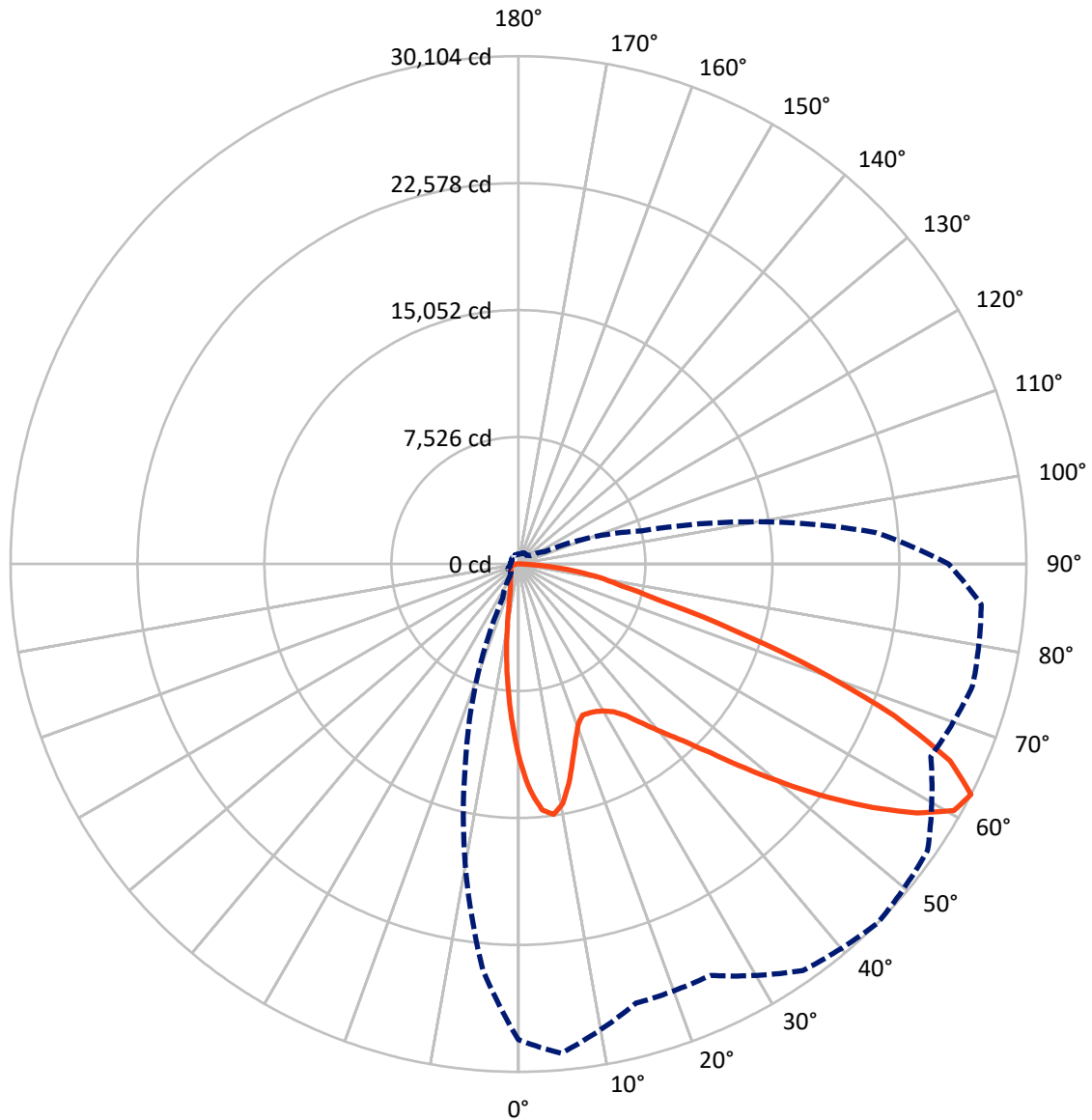
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.3 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
<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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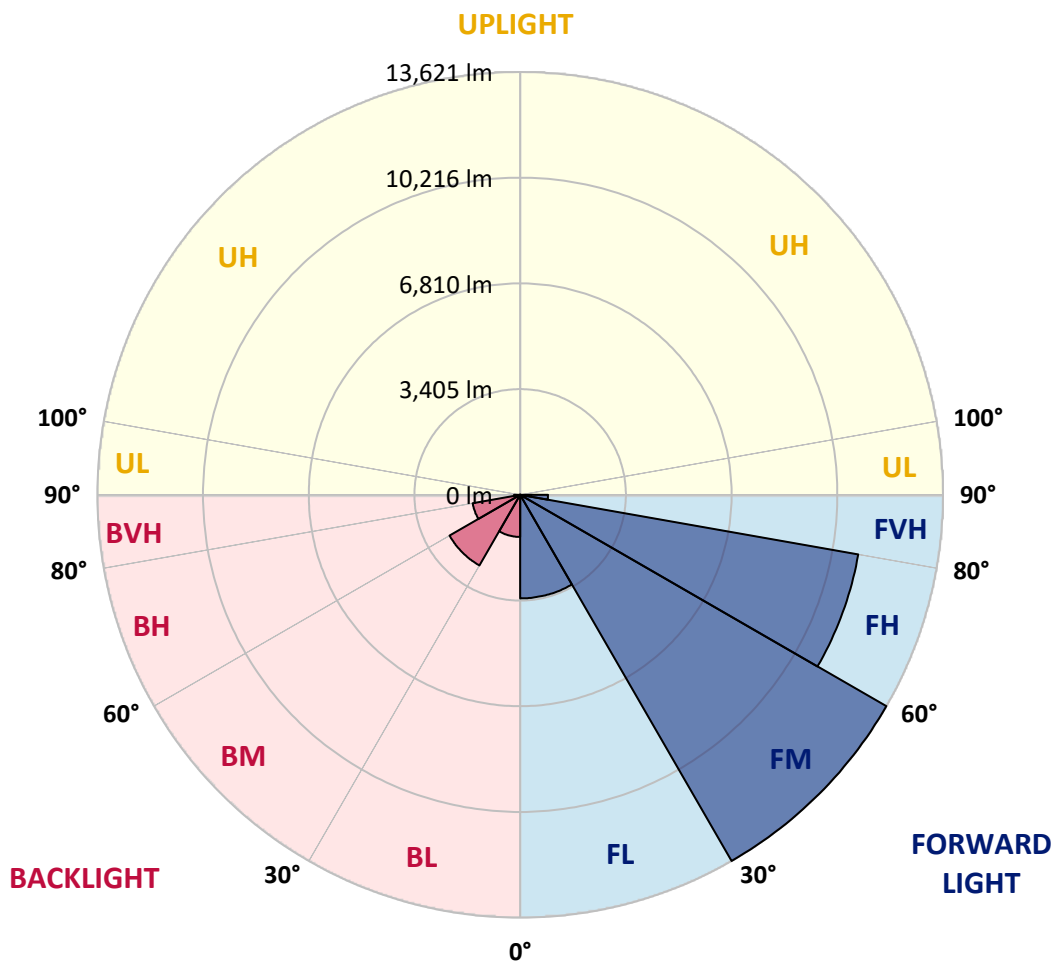
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-800

**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	12357.9	12736.9	13020.7	13365.5	13445.5	13555.9	13447.3	13255.0	12999.8	12915.9
5°	11437.8	11853.1	12773.1	13582.5	14302.6	14637.8	14731.1	14454.9	13896.9	13163.5	12715.9
7.5°	10274.1	10864.6	12110.2	13302.6	14363.6	14990.2	14975.0	14333.1	13306.4	12112.1	11394.0
10°	9270.3	9944.5	11373.1	12706.4	13832.1	14439.7	14205.4	13384.5	12159.7	10784.6	10005.5
12.5°	8708.4	9369.3	10818.8	12157.9	13098.8	13308.3	13129.3	12325.4	11171.2	9780.7	9098.8
15°	8611.3	9337.0	10597.9	11687.4	12215.0	12032.2	11818.8	11458.8	10643.6	9457.0	8746.5
17.5°	9032.2	9832.2	10851.3	11359.8	11270.3	10952.1	10891.3	10931.3	10735.1	9817.0	8997.9
20°	9839.8	10799.8	11455.0	11205.5	10552.1	10114.1	10129.4	10740.8	11321.7	10729.3	9794.0
22.5°	10973.1	12068.4	12325.4	11287.3	10249.4	9729.3	9855.0	10845.5	12256.9	12062.6	10868.3
25°	12439.8	13437.8	13253.0	11584.5	10279.8	9777.0	9877.9	11207.3	13361.7	13396.0	12197.9
27.5°	13860.7	14786.3	14032.1	11978.9	10405.5	9889.3	10022.7	11776.9	14416.9	14843.5	13717.8
30°	14969.2	15613.0	14340.6	12338.8	10653.1	10108.4	10274.1	12317.9	14896.8	15820.7	14887.3
32.5°	15887.3	16350.1	14832.1	12784.5	11108.3	10453.1	10744.6	12975.0	15588.2	16750.1	16032.1
35°	17060.6	17192.0	15443.5	13281.7	11811.2	11053.1	11415.0	13618.7	16247.3	17689.2	17159.7
37.5°	18435.8	18266.3	16020.6	13961.6	12719.8	11992.2	12291.2	14325.4	16790.1	18753.9	18312.0
40°	19795.8	19388.2	16744.4	15016.8	14045.4	13098.8	13453.0	15079.7	17296.8	19820.6	19437.7
42.5°	20952.0	20348.1	17458.7	16176.8	15279.7	14319.7	14742.6	15839.7	17780.6	20731.0	20414.8
45°	21807.2	21056.7	18138.7	17291.0	16980.6	15942.6	16142.6	16710.1	18304.4	21491.0	21218.7
47.5°	22571.0	21769.1	18908.2	18414.9	18468.1	18052.9	17731.1	17723.4	18921.5	22111.9	21978.6
50°	23593.8	22757.6	19734.9	19572.9	20700.5	20424.3	19713.9	18906.3	19702.4	22816.7	22801.5
52.5°	25003.3	24323.3	20744.3	20820.5	22784.3	22965.2	22085.3	20327.2	20925.3	24110.0	24018.6
55°	26670.0	26273.8	22119.6	22254.8	25340.4	25469.9	24595.7	22104.3	22723.3	25982.3	25729.1
57.5°	27970.9	27887.1	23628.1	23976.6	27249.0	27831.8	27028.0	24161.4	24750.0	27559.4	26923.2
60°	28489.0	28894.7	25233.7	25713.8	29014.7	29660.4	28955.6	25969.0	26546.1	28212.8	26841.4
62.5°	28209.0	29115.6	26944.2	26904.2	29408.9	30104.1	29608.9	26974.7	27877.6	27538.4	25483.3
65°	26915.7	28321.3	27936.6	26597.5	28060.4	28117.5	27957.6	26525.2	28191.8	25407.1	22858.6
67.5°	24098.6	26121.4	26630.0	23969.1	24422.3	24050.9	23782.4	24064.3	26553.8	22212.9	19211.0
70°	19628.2	22672.0	22915.7	19171.0	18965.3	18715.8	18180.6	19729.1	23321.4	18205.4	15243.5
72.5°	14432.1	17632.0	18380.6	14060.7	13108.3	13159.8	12736.9	14868.3	18961.5	13523.5	11380.7
75°	9874.1	12767.3	14380.6	9811.2	8668.4	8689.4	8636.1	10535.1	15102.5	9407.5	8516.1
77.5°	7213.2	9121.8	10845.5	6596.1	6403.7	6285.6	6257.0	7371.3	11578.8	6830.3	6613.2
80°	5788.5	6738.9	7285.6	4571.4	4916.1	4906.6	4748.4	5068.5	7561.8	4996.1	4946.6
82.5°	4015.2	5178.9	5902.7	3582.8	3318.0	3262.8	3300.9	3775.2	5344.6	3415.1	3247.6
85°	2118.0	3440.0	5845.6	3175.1	1969.5	1571.4	1954.2	3091.4	4630.4	1809.5	1584.8
87.5°	270.5	994.3	3870.4	1266.6	777.1	419.0	927.6	1741.0	2973.3	369.5	321.9
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):**

	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°	12700.7	12447.4	12115.9	11809.3	11491.2	11175.0	10761.6	10502.6	10323.6	10289.4	10213.1
5°	12392.1	11550.2	10914.1	10363.6	9864.5	9159.8	8769.3	8445.6	8272.2	8255.1	8213.2
7.5°	10969.3	9807.4	8948.4	8169.4	7462.7	6893.2	6264.7	5971.3	5851.3	5879.9	5908.5
10°	9489.3	8190.4	7203.6	6407.5	5784.7	5304.6	4799.9	4458.9	4222.7	4175.2	4165.7
12.5°	8407.4	6982.8	6024.7	5462.8	4980.8	4529.4	3994.2	3592.3	3285.6	3180.9	3110.4
15°	7950.3	6392.2	5388.5	4782.8	4251.4	3678.0	3180.9	2759.9	2478.0	2386.6	2335.2
17.5°	8047.5	6228.4	4950.4	4175.2	3495.2	2897.1	2270.4	1910.5	1741.0	1697.1	1697.1
20°	8557.9	6198.0	4588.4	3615.2	2767.6	2074.2	1560.0	1354.3	1299.0	1293.3	1308.6
22.5°	9274.1	6304.7	4318.0	3129.4	2150.4	1514.3	1215.2	1139.1	1114.3	1119.9	1137.1
25°	10340.7	6664.6	4121.8	2697.1	1687.6	1240.0	1083.8	1038.1	1026.6	1041.9	1062.8
27.5°	11605.5	7024.6	3999.9	2371.4	1424.8	1133.3	1030.4	982.9	990.4	1009.6	1028.6
30°	12715.9	7319.8	3807.5	2139.0	1342.8	1139.1	1030.4	965.7	958.1	961.9	967.6
32.5°	13712.1	7519.8	3582.8	1918.0	1158.1	1011.4	961.9	952.4	910.4	895.2	897.1
35°	14571.1	7519.8	3447.5	1788.5	1038.1	897.1	817.1	769.5	748.6	750.4	771.4
37.5°	15399.7	7369.3	3380.9	1716.2	973.3	853.3	782.9	740.9	712.4	706.7	710.4
40°	16131.1	7150.3	3304.7	1685.7	923.8	826.6	760.0	725.7	695.2	685.7	687.6
42.5°	16717.8	6973.1	3220.9	1645.7	893.3	807.6	744.7	714.2	680.0	670.4	668.6
45°	17352.0	6914.1	3110.4	1565.7	908.6	809.5	740.9	708.6	674.2	662.9	659.0
47.5°	18188.2	7098.9	2996.1	1470.5	940.9	819.1	746.7	708.6	672.4	662.9	659.0
50°	19241.5	7533.2	2851.4	1331.4	908.6	845.7	744.7	702.9	672.4	662.9	655.2
52.5°	20593.8	8119.9	2660.9	1171.4	889.5	910.4	740.9	691.4	662.9	649.5	636.2
55°	22237.6	8599.8	2434.2	1039.9	845.7	893.3	735.2	678.1	647.6	628.6	617.1
57.5°	23441.4	8773.1	2142.8	954.3	784.7	864.7	727.6	660.9	628.6	613.4	598.1
60°	23203.4	8437.9	1897.1	900.9	748.6	780.9	721.9	645.7	611.4	600.0	586.7
62.5°	21296.7	7561.8	1739.0	876.2	725.7	712.4	727.6	630.4	596.2	584.7	580.9
65°	18437.8	6268.4	1676.2	870.4	706.7	672.4	676.2	613.4	579.0	569.5	565.7
67.5°	15209.2	5058.9	1621.0	889.5	681.9	643.8	624.7	590.4	561.9	552.4	544.7
70°	11994.0	4207.5	1596.1	878.1	651.4	615.2	594.2	565.7	540.9	531.4	525.7
72.5°	9658.8	3554.2	1582.8	866.6	611.4	577.1	558.1	533.4	506.7	502.9	497.2
75°	8173.2	2794.2	1449.5	830.4	565.7	531.4	518.1	495.2	468.5	468.5	464.7
77.5°	6304.7	2020.9	1205.6	735.2	518.1	480.0	468.5	451.4	420.9	426.7	424.7
80°	4657.1	1318.1	942.9	609.5	459.0	422.9	417.2	400.0	367.6	375.2	375.2
82.5°	3190.4	864.7	678.1	499.0	392.4	358.1	358.1	340.9	304.7	308.5	320.0
85°	1601.8	594.2	506.7	386.7	304.7	287.7	287.7	274.3	238.0	240.0	255.2
87.5°	487.6	358.1	335.2	276.2	219.0	215.2	205.7	196.2	173.3	171.4	181.0
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°	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4	11706.4
2.5°	10096.9	9988.4	9856.9	9567.5	9470.3	9464.5	9552.2	9460.8	9636.0	9561.7	9643.7
5°	8142.7	8036.0	7889.4	7519.8	7295.1	7142.8	7070.3	6857.0	7011.3	6898.9	6992.3
7.5°	5988.5	6013.2	5916.0	5699.0	5209.4	4963.7	4818.9	4689.4	4801.8	4790.4	4969.4
10°	4209.4	4276.1	4207.5	3988.5	3592.3	3457.1	3483.8	3535.2	3681.8	3758.0	4034.2
12.5°	3030.4	3026.6	2982.8	2786.6	2525.7	2540.9	2649.4	2739.0	2874.2	2954.2	3236.1
15°	2262.8	2228.5	2209.5	2049.5	1900.9	1933.3	1986.7	1996.2	2081.9	2129.5	2358.0
17.5°	1710.5	1727.6	1748.5	1634.3	1521.8	1500.9	1459.0	1407.6	1432.3	1441.8	1556.1
20°	1358.1	1426.6	1478.1	1398.1	1283.8	1222.8	1169.5	1135.2	1135.2	1133.3	1165.7
22.5°	1186.6	1236.1	1291.4	1236.1	1133.3	1079.9	1049.5	1022.8	1019.1	1019.1	1049.5
25°	1093.3	1129.5	1182.8	1144.8	1068.6	1028.6	999.9	965.7	952.4	948.6	969.6
27.5°	1047.6	1062.8	1089.5	1055.2	990.4	971.4	963.8	933.3	916.2	906.6	927.6
30°	969.6	965.7	967.6	933.3	881.9	879.9	893.3	899.1	893.3	891.4	923.8
32.5°	897.1	889.5	887.6	857.1	809.5	798.1	809.5	820.9	834.3	853.3	891.4
35°	805.7	824.7	836.2	809.5	752.4	718.1	704.7	683.8	672.4	672.4	716.2
37.5°	733.4	777.1	794.2	769.5	706.7	659.0	636.2	632.4	634.2	641.9	683.8
40°	708.6	740.9	756.2	731.4	668.6	624.7	611.4	607.6	611.4	622.9	664.7
42.5°	693.4	716.2	714.2	683.8	632.4	601.9	594.2	590.4	594.2	605.7	651.4
45°	680.0	695.2	680.0	643.8	596.2	580.9	582.9	580.9	584.7	596.2	640.0
47.5°	668.6	674.2	655.2	619.0	569.5	565.7	573.4	579.0	582.9	592.4	638.1
50°	651.4	651.4	634.2	596.2	546.7	548.6	558.1	571.4	573.4	584.7	620.9
52.5°	630.4	628.6	617.1	580.9	527.6	533.4	533.4	548.6	552.4	565.7	603.8
55°	613.4	609.5	603.8	569.5	510.5	520.0	514.2	520.0	529.5	542.9	584.7
57.5°	598.1	590.4	590.4	560.0	497.2	500.9	487.6	495.2	506.7	518.1	561.9
60°	582.9	575.2	579.0	546.7	476.2	472.4	466.7	481.9	485.7	499.0	542.9
62.5°	565.7	560.0	561.9	531.4	460.9	451.4	451.4	464.7	466.7	485.7	527.6
65°	552.4	544.7	542.9	516.2	443.8	432.4	438.1	443.8	447.6	466.7	506.7
67.5°	539.0	523.8	523.8	502.9	424.7	413.4	424.7	422.9	428.5	445.7	478.1
70°	521.9	500.9	502.9	493.4	405.7	392.4	401.9	400.0	403.8	415.2	447.6
72.5°	495.2	478.1	481.9	478.1	386.7	367.6	371.4	371.4	371.4	380.9	415.2
75°	460.9	447.6	459.0	468.5	363.8	337.2	340.9	340.9	335.2	340.9	382.9
77.5°	419.0	411.4	449.5	436.2	337.2	304.7	304.7	301.0	289.5	297.2	342.9
80°	373.3	367.6	415.2	365.7	306.7	264.7	261.0	251.4	240.0	245.7	291.4
82.5°	325.7	320.0	348.5	280.0	264.7	219.0	209.5	192.4	181.0	186.7	228.5
85°	266.7	266.7	268.5	211.4	201.9	167.7	156.2	133.3	120.0	123.8	163.8
87.5°	190.5	196.2	181.0	144.7	120.0	93.3	85.7	72.4	61.0	70.5	85.7
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: P191286

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-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°	10062.7	10272.2	10510.3	10815.0	11076.0	11504.5	11915.9	12163.6
5°	7523.7	7872.2	8306.5	8864.6	9384.6	10165.5	10940.8	11437.8
7.5°	5384.6	5758.0	6226.5	6923.6	7658.9	8655.1	9679.8	10274.1
10°	4455.2	4838.0	5232.3	5702.7	6304.7	7388.5	8599.8	9270.3
12.5°	3685.6	4095.2	4519.9	5015.1	5573.2	6540.8	7937.0	8708.4
15°	2820.9	3278.0	3779.0	4405.6	5104.6	6222.7	7773.2	8611.3
17.5°	1933.3	2443.7	3059.0	3832.3	4687.6	6119.9	8066.5	9032.2
20°	1331.4	1702.8	2359.9	3266.6	4295.2	6106.5	8630.3	9839.8
22.5°	1114.3	1280.0	1760.0	2746.6	3999.9	6270.4	9504.5	10973.1
25°	1030.4	1129.5	1405.6	2295.2	3784.7	6647.4	10708.4	12439.8
27.5°	980.9	1070.4	1276.1	2000.0	3615.2	7085.6	11879.7	13860.7
30°	999.9	1091.4	1240.0	1849.5	3384.7	7451.3	12919.8	14969.2
32.5°	900.9	940.9	1062.8	1716.2	3219.0	7758.0	13830.2	15887.3
35°	767.6	838.1	948.6	1653.3	3222.8	7963.7	14822.6	17060.6
37.5°	731.4	801.9	881.9	1630.5	3266.6	8182.7	15961.6	18435.8
40°	708.6	773.4	841.9	1617.1	3308.5	8382.7	17077.8	19795.8
42.5°	693.4	752.4	838.1	1571.4	3329.5	8561.7	17995.9	20952.0
45°	691.4	752.4	853.3	1525.7	3361.8	8754.1	18765.3	21807.2
47.5°	693.4	777.1	824.7	1470.5	3361.8	9076.0	19668.2	22571.0
50°	685.7	819.1	794.2	1392.3	3283.8	9685.5	20906.3	23593.8
52.5°	681.9	813.3	735.2	1272.3	3148.5	10653.1	22492.8	25003.3
55°	672.4	784.7	693.4	1093.3	2990.4	11708.3	24191.9	26670.0
57.5°	662.9	695.2	670.4	937.1	2746.6	12451.2	25361.4	27970.9
60°	742.9	607.6	651.4	860.9	2420.9	12655.0	25315.7	28489.0
62.5°	687.6	569.5	626.7	843.8	2192.3	12083.6	24146.1	28209.0
65°	539.0	544.7	601.9	893.3	2131.4	10569.3	22073.8	26915.7
67.5°	493.4	520.0	577.1	956.2	2137.1	8462.7	18976.8	24098.6
70°	464.7	493.4	548.6	988.6	2152.3	6308.4	15003.5	19628.2
72.5°	432.4	457.2	516.2	994.3	2053.3	4582.7	11563.5	14432.1
75°	394.2	417.2	470.5	866.6	1701.0	3179.0	8845.6	9874.1
77.5°	350.5	367.6	413.4	668.6	1262.8	2034.2	6639.9	7213.2
80°	299.0	308.5	346.7	489.5	864.7	1272.3	5253.3	5788.5
82.5°	240.0	243.8	268.5	367.6	561.9	817.1	3518.0	4015.2
85°	169.5	169.5	184.7	266.7	382.9	518.1	1910.5	2118.0
87.5°	80.0	81.9	81.9	146.7	200.0	262.9	440.0	270.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)