

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: P193815

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193815
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-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 19892 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

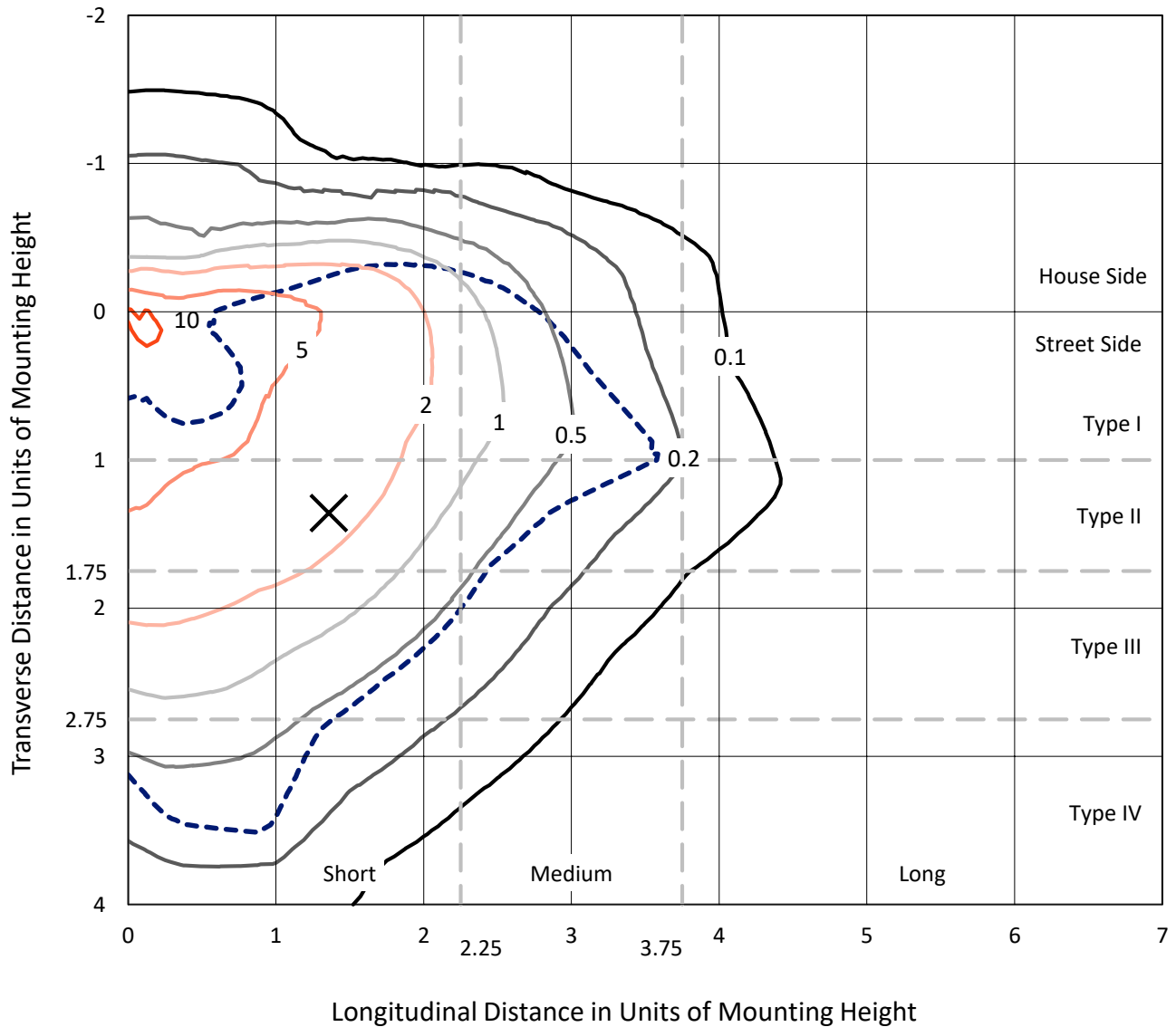
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

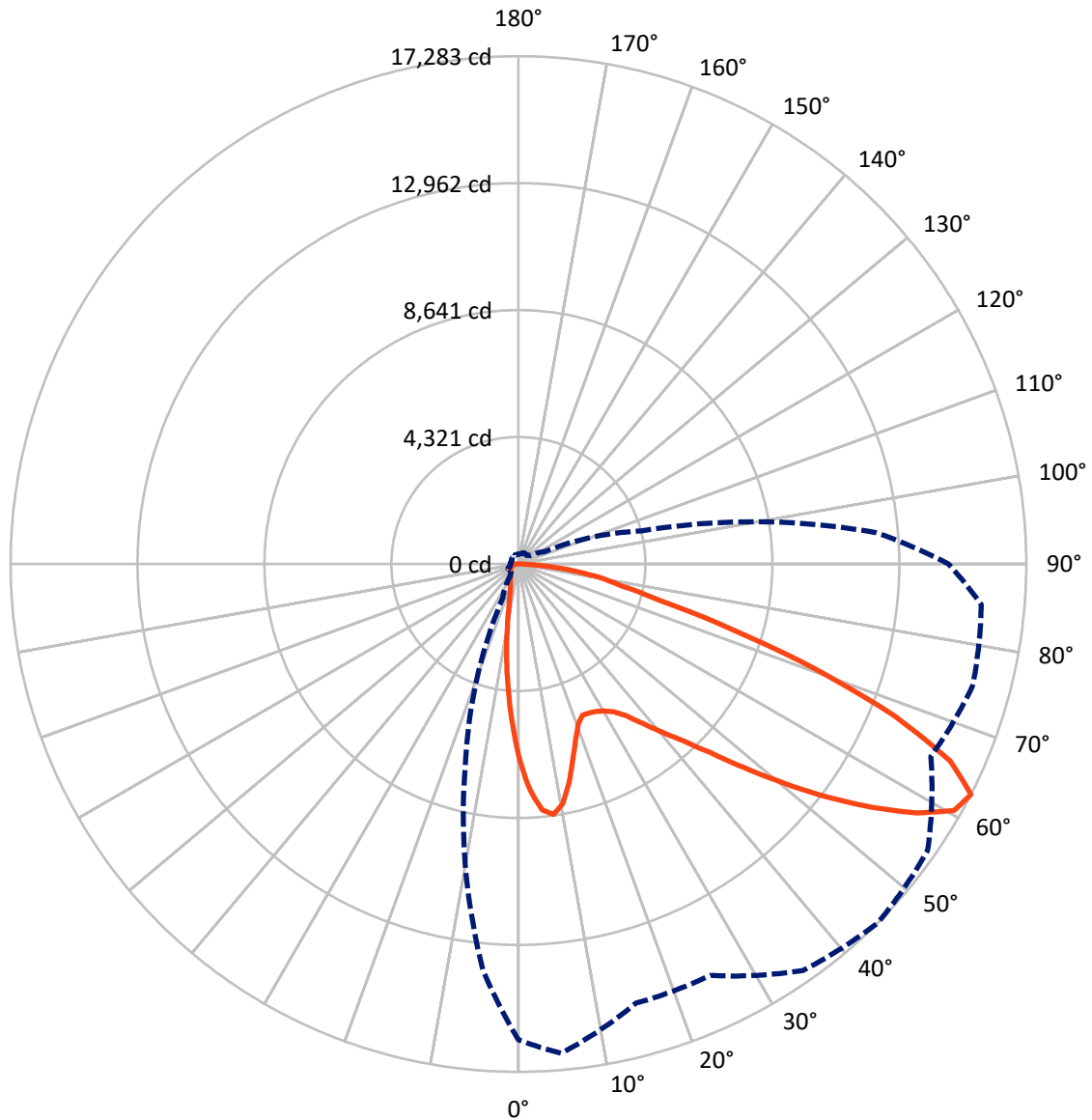
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	3291.9	0.0	3291.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16600.1	0.0	16600.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	19892.0	0.0	19892.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.2	2.5
10°-20°	897.1	4.5
20°-30°	1308.0	6.6
30°-40°	2014.5	10.1
40°-50°	2964.8	14.9
50°-60°	4348.7	21.9
60°-70°	4861.3	24.4
70°-80°	2380.0	12.0
80°-90°	628.4	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°	19892.0	100.0
0°-180°	19892.0	100.0



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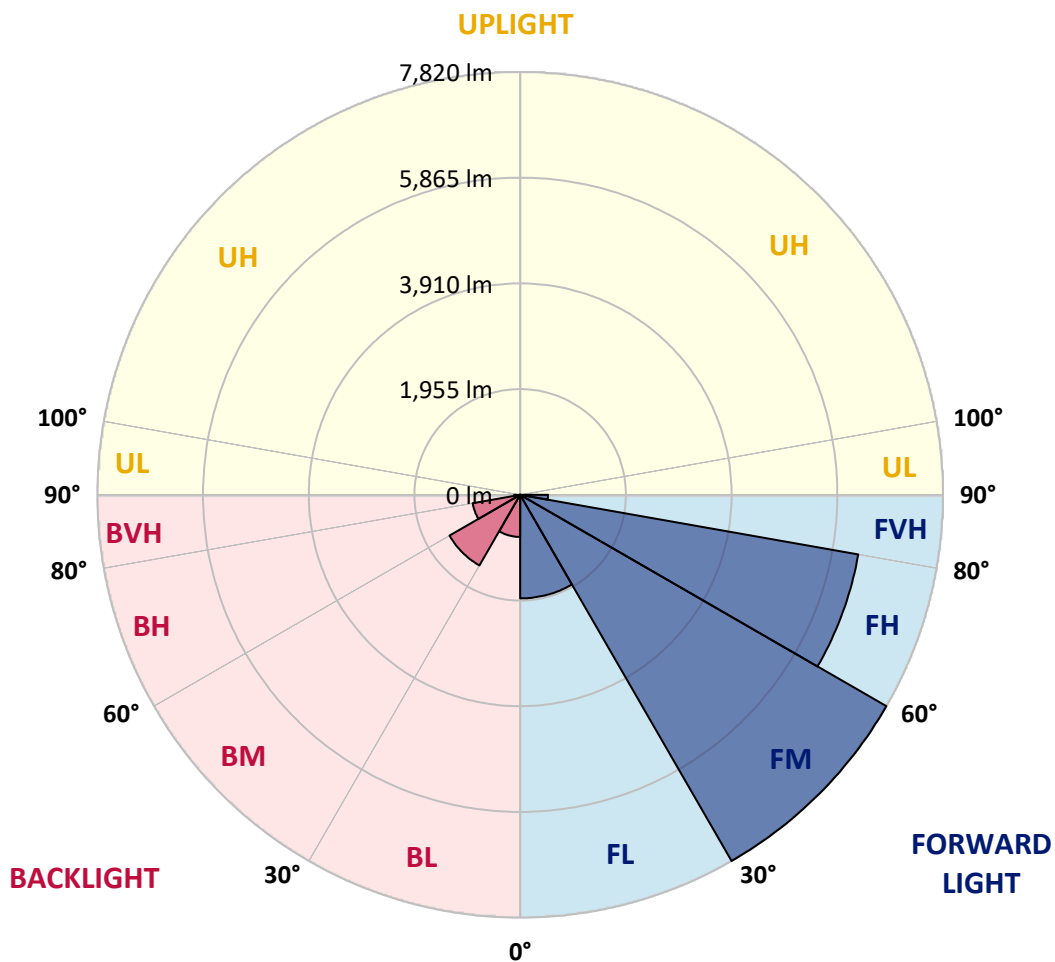
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1915.5	9.6			
FM	(30°-60°)	7819.7	39.3			
FH	(60°-80°)	6348.8	31.9			G3/7500
FVH	(80°-90°)	516.0	2.6			G4/750
BL	(0°-30°)	778.8	3.9	B2/1000		
BM	(30°-60°)	1508.3	7.6	B2/2500		
BH	(60°-80°)	892.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	112.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6
2.5°	6983.0	7094.6	7312.2	7475.1	7673.0	7718.9	7782.4	7720.0	7609.6	7463.1	7415.0
5°	6566.4	6804.8	7332.9	7797.7	8211.0	8403.5	8457.1	8298.5	7978.1	7557.1	7300.1
7.5°	5898.3	6237.3	6952.4	7636.9	8246.0	8605.8	8597.0	8228.5	7639.1	6953.5	6541.3
10°	5322.0	5709.1	6529.2	7294.7	7940.9	8289.7	8155.2	7684.0	6980.8	6191.3	5744.1
12.5°	4999.4	5378.9	6211.0	6979.7	7519.9	7640.2	7537.4	7076.0	6413.3	5615.1	5223.6
15°	4943.7	5360.3	6084.2	6709.7	7012.6	6907.6	6785.1	6578.4	6110.4	5429.2	5021.3
17.5°	5185.3	5644.6	6229.6	6521.6	6470.2	6287.6	6252.6	6275.5	6162.9	5635.8	5165.6
20°	5649.0	6200.1	6576.2	6433.0	6057.9	5806.4	5815.2	6166.2	6499.7	6159.6	5622.7
22.5°	6299.6	6928.4	7076.0	6480.0	5884.1	5585.5	5657.7	6226.3	7036.6	6925.1	6239.5
25°	7141.6	7714.6	7608.5	6650.6	5901.6	5612.9	5670.8	6434.1	7670.8	7690.5	7002.7
27.5°	7957.3	8488.8	8055.7	6877.0	5973.7	5677.4	5753.9	6761.0	8276.6	8521.6	7875.3
30°	8593.7	8963.3	8232.9	7083.6	6115.9	5803.2	5898.3	7071.6	8552.2	9082.5	8546.7
32.5°	9120.8	9386.5	8515.0	7339.5	6377.2	6001.1	6168.4	7448.9	8949.1	9616.2	9203.9
35°	9794.4	9869.8	8866.0	7624.9	6780.7	6345.5	6553.3	7818.5	9327.5	10155.2	9851.3
37.5°	10583.9	10486.6	9197.3	8015.3	7302.3	6884.6	7056.3	8224.1	9639.1	10766.5	10512.8
40°	11364.6	11130.6	9612.9	8621.1	8063.4	7519.9	7723.3	8657.2	9930.0	11378.9	11159.1
42.5°	12028.4	11681.8	10022.9	9287.0	8772.0	8220.9	8463.6	9093.5	10207.7	11901.5	11720.0
45°	12519.4	12088.5	10413.3	9926.7	9748.5	9152.5	9267.3	9593.2	10508.4	12337.8	12181.5
47.5°	12957.9	12497.5	10855.1	10571.9	10602.5	10364.1	10179.3	10174.9	10862.7	12694.3	12617.8
50°	13545.1	13065.0	11329.6	11236.7	11884.0	11725.5	11317.6	10854.0	11311.1	13098.9	13090.2
52.5°	14354.2	13963.9	11909.2	11952.9	13080.3	13184.2	12679.0	11669.7	12013.1	13841.4	13788.9
55°	15311.0	15083.6	12698.7	12776.3	14547.8	14622.1	14120.2	12690.0	13045.3	14916.3	14770.9
57.5°	16057.9	16009.8	13564.7	13764.9	15643.5	15978.1	15516.6	13870.9	14208.8	15821.7	15456.5
60°	16355.3	16588.2	14486.6	14762.1	16657.1	17027.8	16623.2	14908.6	15240.0	16196.8	15409.5
62.5°	16194.6	16715.1	15468.5	15445.5	16883.5	17282.6	16998.3	15486.0	16004.3	15809.7	14629.8
65°	15452.1	16259.1	16038.2	15269.5	16109.3	16142.1	16050.2	15227.9	16184.7	14586.1	13123.0
67.5°	13834.8	14996.1	15288.1	13760.5	14020.7	13807.5	13653.3	13815.2	15244.3	12752.3	11028.9
70°	11268.4	13015.8	13155.8	11006.0	10887.9	10744.6	10437.4	11326.4	13388.7	10451.6	8751.2
72.5°	8285.4	10122.4	10552.2	8072.1	7525.4	7554.9	7312.2	8535.8	10885.7	7763.8	6533.6
75°	5668.7	7329.7	8255.8	5632.6	4976.5	4988.5	4957.9	6048.1	8670.3	5400.7	4889.0
77.5°	4141.0	5236.7	6226.3	3786.8	3676.3	3608.5	3592.1	4231.8	6647.3	3921.3	3796.6
80°	3323.1	3868.8	4182.6	2624.4	2822.3	2816.8	2726.1	2909.8	4341.2	2868.2	2839.8
82.5°	2305.1	2973.2	3388.7	2056.9	1904.9	1873.1	1895.0	2167.3	3068.3	1960.6	1864.4
85°	1216.0	1974.8	3355.9	1822.8	1130.7	902.1	1121.9	1774.7	2658.3	1038.8	909.8
87.5°	155.3	570.8	2222.0	727.2	446.1	240.6	532.5	999.4	1706.9	212.1	184.8
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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6
2.5°	7291.4	7146.0	6955.7	6779.6	6597.0	6415.5	6178.2	6029.5	5926.7	5907.0	5863.3
5°	7114.2	6630.9	6265.7	5949.7	5663.2	5258.6	5034.4	4848.5	4749.0	4739.2	4715.1
7.5°	6297.4	5630.4	5137.2	4690.0	4284.3	3957.3	3596.5	3428.1	3359.2	3375.6	3392.0
10°	5447.8	4702.0	4135.6	3678.5	3320.9	3045.4	2755.6	2559.9	2424.3	2396.9	2391.5
12.5°	4826.7	4008.7	3458.7	3136.1	2859.5	2600.3	2293.0	2062.3	1886.3	1826.1	1785.7
15°	4564.2	3669.8	3093.5	2745.8	2440.7	2111.5	1826.1	1584.5	1422.6	1370.1	1340.6
17.5°	4620.0	3575.7	2842.0	2396.9	2006.6	1663.2	1303.4	1096.8	999.4	974.3	974.3
20°	4913.1	3558.2	2634.2	2075.4	1588.8	1190.8	895.6	777.5	745.8	742.5	751.2
22.5°	5324.2	3619.5	2478.9	1796.6	1234.6	869.3	697.6	653.9	639.7	643.0	652.8
25°	5936.6	3826.1	2366.3	1548.4	968.8	711.9	622.2	596.0	589.4	598.1	610.2
27.5°	6662.6	4032.8	2296.3	1361.4	817.9	650.6	591.6	564.2	568.6	579.5	590.5
30°	7300.1	4202.3	2185.9	1228.0	770.9	653.9	591.6	554.4	550.0	552.2	555.5
32.5°	7872.0	4317.1	2056.9	1101.1	664.8	580.6	552.2	546.7	522.7	513.9	515.0
35°	8365.2	4317.1	1979.2	1026.8	596.0	515.0	469.1	441.8	429.7	430.8	442.9
37.5°	8840.9	4230.7	1940.9	985.2	558.8	489.9	449.4	425.4	409.0	405.7	407.9
40°	9260.8	4105.0	1897.2	967.7	530.3	474.6	436.3	416.6	399.1	393.7	394.7
42.5°	9597.6	4003.3	1849.1	944.8	512.8	463.6	427.6	410.1	390.4	384.9	383.8
45°	9961.7	3969.4	1785.7	898.8	521.6	464.7	425.4	406.8	387.1	380.5	378.3
47.5°	10441.7	4075.4	1720.1	844.2	540.2	470.2	428.6	406.8	386.0	380.5	378.3
50°	11046.4	4324.8	1637.0	764.3	521.6	485.5	427.6	403.5	386.0	380.5	376.2
52.5°	11822.8	4661.5	1527.6	672.5	510.7	522.7	425.4	396.9	380.5	372.9	365.2
55°	12766.5	4937.1	1397.5	597.0	485.5	512.8	422.1	389.3	371.8	360.9	354.3
57.5°	13457.6	5036.6	1230.2	547.8	450.5	496.4	417.7	379.4	360.9	352.1	343.4
60°	13320.9	4844.2	1089.1	517.2	429.7	448.3	414.4	370.7	351.0	344.4	336.8
62.5°	12226.3	4341.2	998.4	503.0	416.6	409.0	417.7	361.9	342.3	335.7	333.5
65°	10585.0	3598.7	962.3	499.7	405.7	386.0	388.2	352.1	332.4	327.0	324.8
67.5°	8731.5	2904.3	930.6	510.7	391.5	369.6	358.7	339.0	322.6	317.1	312.7
70°	6885.7	2415.5	916.3	504.1	374.0	353.2	341.2	324.8	310.6	305.1	301.8
72.5°	5545.1	2040.5	908.7	497.5	351.0	331.3	320.4	306.2	290.9	288.7	285.4
75°	4692.2	1604.1	832.1	476.8	324.8	305.1	297.4	284.3	269.0	269.0	266.8
77.5°	3619.5	1160.2	692.2	422.1	297.4	275.6	269.0	259.2	241.7	244.9	243.8
80°	2673.6	756.7	541.3	349.9	263.5	242.8	239.5	229.6	211.0	215.4	215.4
82.5°	1831.6	496.4	389.3	286.5	225.3	205.6	205.6	195.7	175.0	177.1	183.7
85°	919.6	341.2	290.9	222.0	175.0	165.1	165.1	157.5	136.7	137.8	146.5
87.5°	279.9	205.6	192.5	158.6	125.8	123.6	118.1	112.6	99.5	98.4	103.9
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°	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6
2.5°	5796.6	5734.3	5658.8	5492.6	5436.8	5433.6	5483.9	5431.4	5532.0	5489.3	5536.3
5°	4674.7	4613.4	4529.2	4317.1	4188.1	4100.6	4059.0	3936.6	4025.1	3960.6	4014.2
7.5°	3437.9	3452.1	3396.4	3271.7	2990.7	2849.6	2766.5	2692.2	2756.7	2750.1	2852.9
10°	2416.6	2454.9	2415.5	2289.8	2062.3	1984.7	2000.0	2029.5	2113.7	2157.5	2316.0
12.5°	1739.7	1737.6	1712.4	1599.8	1450.0	1458.7	1521.0	1572.4	1650.1	1696.0	1857.8
15°	1299.1	1279.4	1268.4	1176.6	1091.3	1109.9	1140.5	1146.0	1195.2	1222.5	1353.7
17.5°	982.0	991.8	1003.8	938.2	873.7	861.7	837.6	808.1	822.3	827.8	893.4
20°	779.7	819.0	848.5	802.6	737.0	702.0	671.4	651.7	651.7	650.6	669.2
22.5°	681.2	709.7	741.4	709.7	650.6	620.0	602.5	587.2	585.0	585.0	602.5
25°	627.7	648.4	679.1	657.2	613.4	590.5	574.1	554.4	546.7	544.6	556.6
27.5°	601.4	610.2	625.5	605.8	568.6	557.7	553.3	535.8	526.0	520.5	532.5
30°	556.6	554.4	555.5	535.8	506.3	505.2	512.8	516.1	512.8	511.8	530.3
32.5°	515.0	510.7	509.6	492.1	464.7	458.2	464.7	471.3	478.9	489.9	511.8
35°	462.5	473.5	480.0	464.7	431.9	412.2	404.6	392.6	386.0	386.0	411.2
37.5°	421.0	446.1	456.0	441.8	405.7	378.3	365.2	363.0	364.1	368.5	392.6
40°	406.8	425.4	434.1	419.9	383.8	358.7	351.0	348.8	351.0	357.6	381.6
42.5°	398.0	411.2	410.1	392.6	363.0	345.5	341.2	339.0	341.2	347.7	374.0
45°	390.4	399.1	390.4	369.6	342.3	333.5	334.6	333.5	335.7	342.3	367.4
47.5°	383.8	387.1	376.2	355.4	327.0	324.8	329.1	332.4	334.6	340.1	366.3
50°	374.0	374.0	364.1	342.3	313.8	314.9	320.4	328.0	329.1	335.7	356.5
52.5°	361.9	360.9	354.3	333.5	302.9	306.2	306.2	314.9	317.1	324.8	346.6
55°	352.1	349.9	346.6	327.0	293.1	298.5	295.2	298.5	304.0	311.6	335.7
57.5°	343.4	339.0	339.0	321.5	285.4	287.6	279.9	284.3	290.9	297.4	322.6
60°	334.6	330.2	332.4	313.8	273.4	271.2	267.9	276.7	278.8	286.5	311.6
62.5°	324.8	321.5	322.6	305.1	264.6	259.2	259.2	266.8	267.9	278.8	302.9
65°	317.1	312.7	311.6	296.3	254.8	248.2	251.5	254.8	257.0	267.9	290.9
67.5°	309.5	300.7	300.7	288.7	243.8	237.3	243.8	242.8	246.0	255.9	274.5
70°	299.6	287.6	288.7	283.2	232.9	225.3	230.7	229.6	231.8	238.4	257.0
72.5°	284.3	274.5	276.7	274.5	222.0	211.0	213.2	213.2	213.2	218.7	238.4
75°	264.6	257.0	263.5	269.0	208.9	193.5	195.7	195.7	192.5	195.7	219.8
77.5°	240.6	236.2	258.1	250.4	193.5	175.0	175.0	172.8	166.2	170.6	196.8
80°	214.3	211.0	238.4	210.0	176.1	152.0	149.8	144.3	137.8	141.1	167.3
82.5°	187.0	183.7	200.1	160.7	152.0	125.8	120.3	110.4	103.9	107.2	131.2
85°	153.1	153.1	154.2	121.4	115.9	96.2	89.7	76.5	68.9	71.1	94.0
87.5°	109.3	112.6	103.9	83.1	68.9	53.6	49.2	41.6	35.0	40.5	49.2
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-07-LED-E1-SLL-8030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6
2.5°	5776.9	5897.2	6033.9	6208.8	6358.6	6604.7	6840.9	6983.0
5°	4319.3	4519.4	4768.7	5089.1	5387.6	5836.0	6281.0	6566.4
7.5°	3091.3	3305.6	3574.6	3974.8	4396.9	4968.8	5557.1	5898.3
10°	2557.7	2777.5	3003.8	3273.9	3619.5	4241.6	4937.1	5322.0
12.5°	2115.9	2351.0	2594.9	2879.2	3199.6	3755.0	4556.6	4999.4
15°	1619.5	1881.9	2169.5	2529.2	2930.6	3572.4	4462.5	4943.7
17.5°	1109.9	1402.9	1756.1	2200.1	2691.1	3513.4	4630.9	5185.3
20°	764.3	977.6	1354.8	1875.3	2465.8	3505.7	4954.6	5649.0
22.5°	639.7	734.8	1010.4	1576.8	2296.3	3599.8	5456.5	6299.6
25°	591.6	648.4	807.0	1317.7	2172.8	3816.3	6147.6	7141.6
27.5°	563.1	614.5	732.6	1148.2	2075.4	4067.8	6820.1	7957.3
30°	574.1	626.6	711.9	1061.8	1943.1	4277.7	7417.1	8593.7
32.5°	517.2	540.2	610.2	985.2	1848.0	4453.8	7939.8	9120.8
35°	440.7	481.1	544.6	949.1	1850.2	4571.9	8509.5	9794.4
37.5°	419.9	460.4	506.3	936.0	1875.3	4697.6	9163.4	10583.9
40°	406.8	444.0	483.3	928.4	1899.4	4812.4	9804.2	11364.6
42.5°	398.0	431.9	481.1	902.1	1911.4	4915.2	10331.3	12028.4
45°	396.9	431.9	489.9	875.9	1930.0	5025.7	10773.1	12519.4
47.5°	398.0	446.1	473.5	844.2	1930.0	5210.5	11291.4	12957.9
50°	393.7	470.2	456.0	799.3	1885.2	5560.4	12002.1	13545.1
52.5°	391.5	466.9	422.1	730.5	1807.5	6115.9	12913.0	14354.2
55°	386.0	450.5	398.0	627.7	1716.8	6721.7	13888.4	15311.0
57.5°	380.5	399.1	384.9	538.0	1576.8	7148.1	14559.8	16057.9
60°	426.5	348.8	374.0	494.3	1389.8	7265.1	14533.6	16355.3
62.5°	394.7	327.0	359.8	484.4	1258.6	6937.1	13862.2	16194.6
65°	309.5	312.7	345.5	512.8	1223.6	6067.8	12672.5	15452.1
67.5°	283.2	298.5	331.3	548.9	1226.9	4858.4	10894.4	13834.8
70°	266.8	283.2	314.9	567.5	1235.6	3621.6	8613.4	11268.4
72.5°	248.2	262.4	296.3	570.8	1178.8	2630.9	6638.6	8285.4
75°	226.4	239.5	270.1	497.5	976.5	1825.0	5078.2	5668.7
77.5°	201.2	211.0	237.3	383.8	725.0	1167.8	3811.9	4141.0
80°	171.7	177.1	199.0	281.0	496.4	730.5	3015.8	3323.1
82.5°	137.8	140.0	154.2	211.0	322.6	469.1	2019.7	2305.1
85°	97.3	97.3	106.1	153.1	219.8	297.4	1096.8	1216.0
87.5°	45.9	47.0	47.0	84.2	114.8	150.9	252.6	155.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)