

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: P193840

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193840
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-02-LED-E1-SLL-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 9581 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 129
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

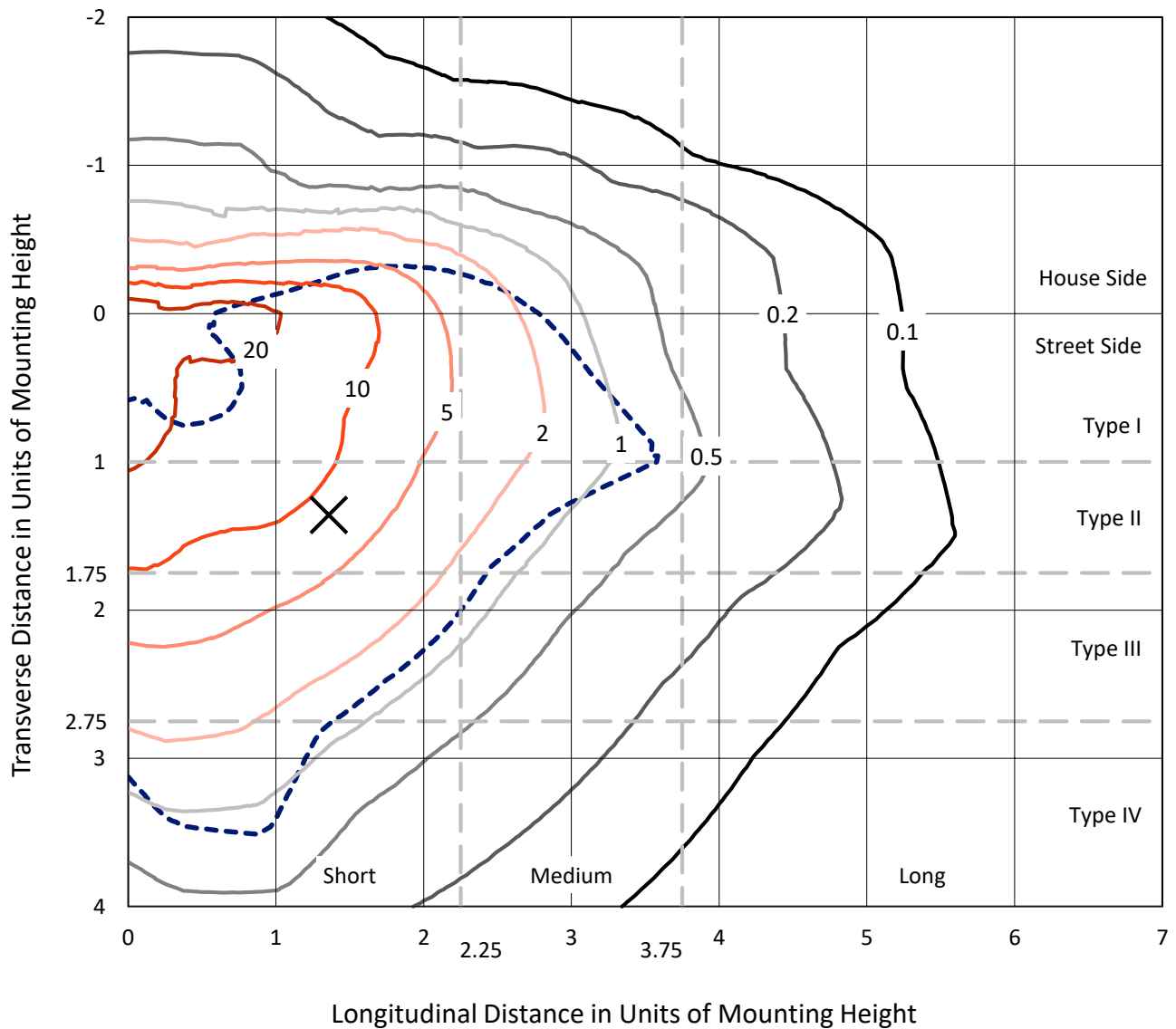


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Iso-Footcandle Lines of Horizontal Illumination

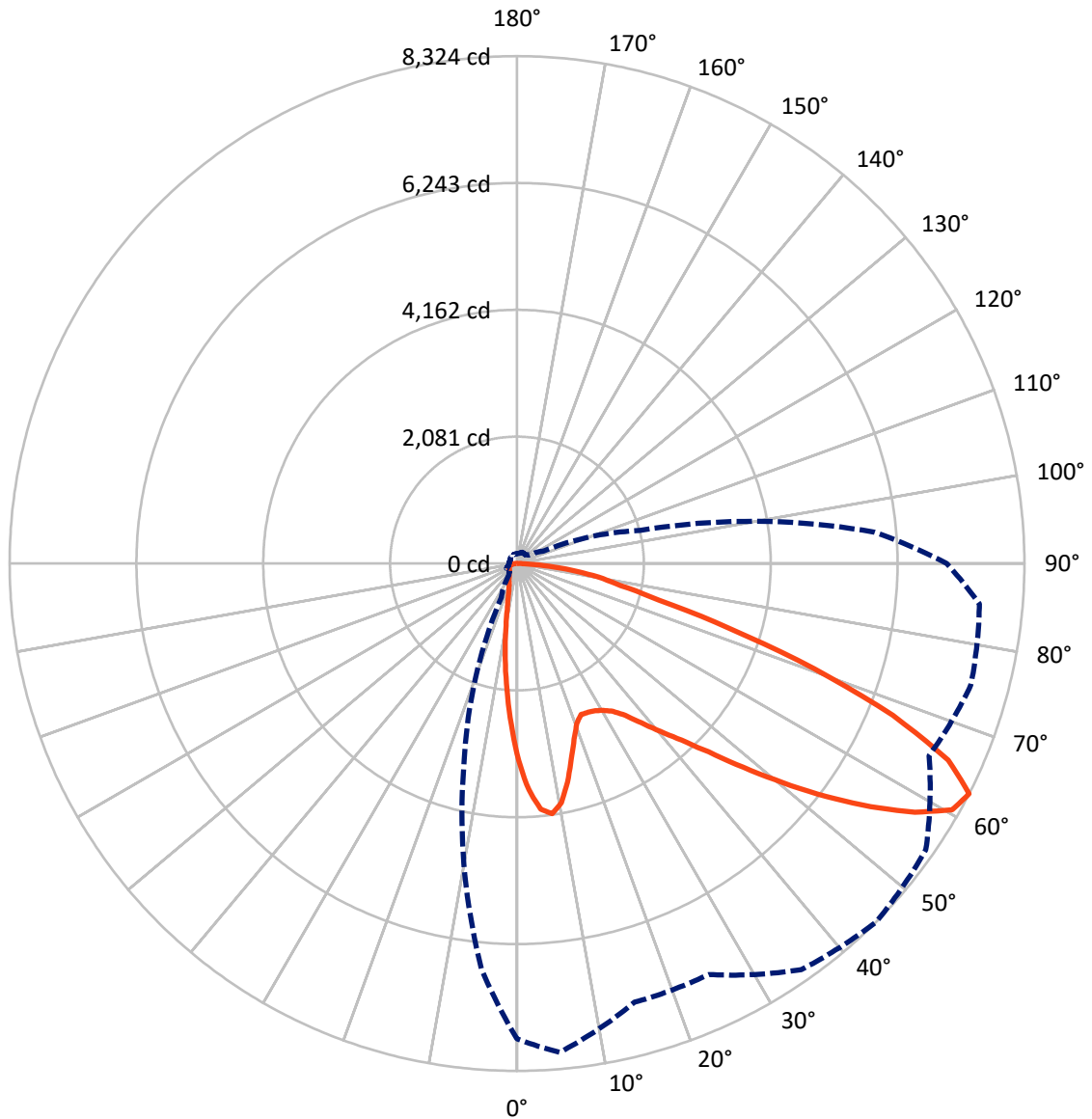
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 38.1 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	1585.5	0.0	1585.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7995.5	0.0	7995.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	9581.0	0.0	9581.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	2.5
10°-20°	432.1	4.5
20°-30°	630.0	6.6
30°-40°	970.3	10.1
40°-50°	1428.0	14.9
50°-60°	2094.6	21.9
60°-70°	2341.4	24.4
70°-80°	1146.3	12.0
80°-90°	302.7	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°	9581.0	100.0
0°-180°	9581.0	100.0



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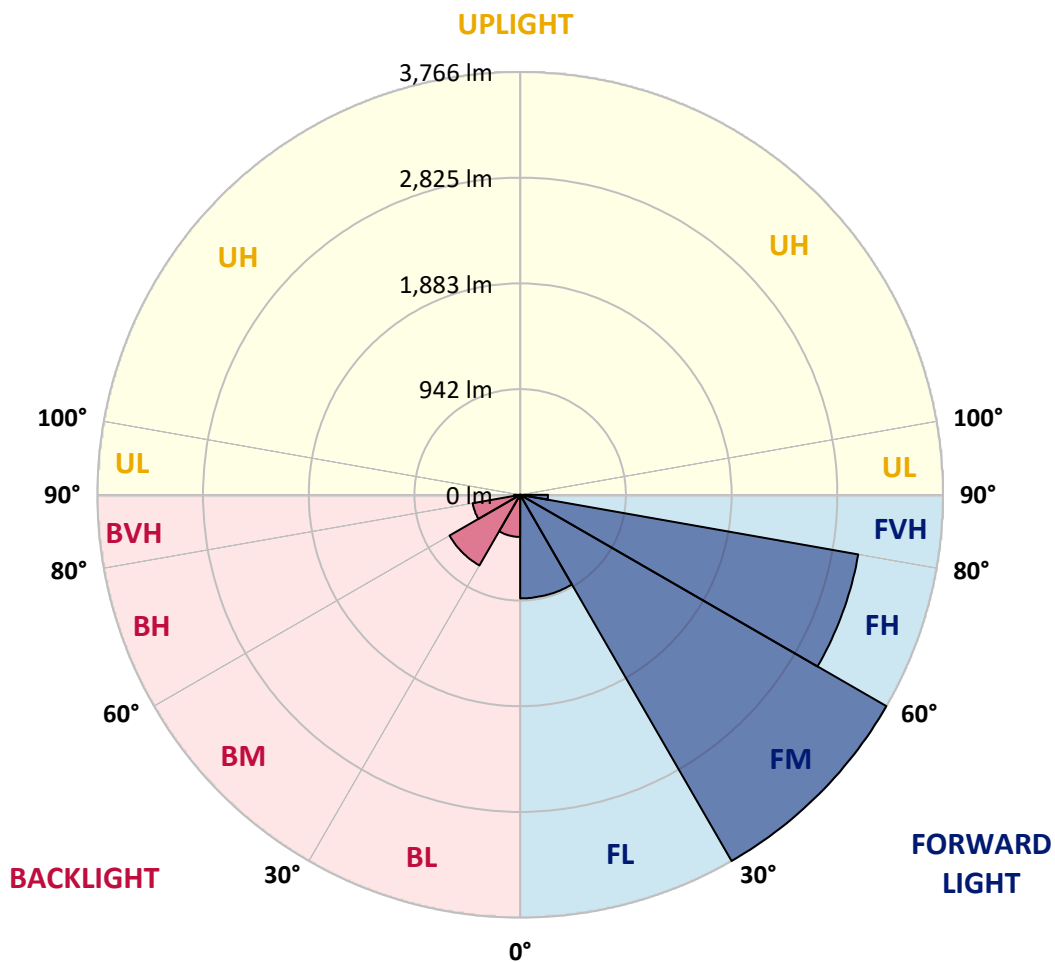
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	922.6	9.6			
FM	(30°-60°)	3766.4	39.3			
FH	(60°-80°)	3057.9	31.9			G2/5000
FVH	(80°-90°)	248.6	2.6			G3/500
BL	(0°-30°)	375.1	3.9	B1/500		
BM	(30°-60°)	726.5	7.6	B1/1000		
BH	(60°-80°)	429.8	4.5	B1/500		G1/500
BVH	(80°-90°)	54.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0
2.5°	3363.4	3417.1	3521.9	3600.4	3695.7	3717.8	3748.4	3718.4	3665.2	3594.6	3571.4
5°	3162.7	3277.5	3531.9	3755.8	3954.8	4047.5	4073.3	3997.0	3842.7	3639.9	3516.1
7.5°	2840.9	3004.2	3348.6	3678.3	3971.7	4145.0	4140.8	3963.3	3679.4	3349.2	3150.6
10°	2563.4	2749.8	3144.8	3513.5	3824.8	3992.8	3928.0	3701.0	3362.3	2982.1	2766.7
12.5°	2408.0	2590.7	2991.5	3361.8	3622.0	3679.9	3630.4	3408.1	3089.0	2704.5	2516.0
15°	2381.1	2581.8	2930.4	3231.7	3377.6	3327.0	3268.1	3168.5	2943.1	2615.0	2418.5
17.5°	2497.5	2718.7	3000.5	3141.1	3116.4	3028.4	3011.6	3022.6	2968.4	2714.5	2488.0
20°	2720.8	2986.3	3167.5	3098.5	2917.8	2796.7	2800.9	2970.0	3130.6	2966.8	2708.2
22.5°	3034.2	3337.0	3408.1	3121.1	2834.1	2690.3	2725.0	2998.9	3389.2	3335.5	3005.2
25°	3439.7	3715.7	3664.6	3203.3	2842.5	2703.5	2731.4	3099.0	3694.7	3704.1	3372.9
27.5°	3832.7	4088.6	3880.1	3312.3	2877.3	2734.5	2771.4	3256.5	3986.4	4104.4	3793.2
30°	4139.2	4317.2	3965.4	3411.8	2945.7	2795.1	2840.9	3406.0	4119.2	4374.6	4116.5
32.5°	4393.0	4521.0	4101.3	3535.1	3071.6	2890.4	2971.0	3587.7	4310.4	4631.6	4433.1
35°	4717.5	4753.8	4270.3	3672.5	3265.9	3056.3	3156.4	3765.8	4492.6	4891.3	4744.9
37.5°	5097.7	5050.9	4429.9	3860.6	3517.2	3316.0	3398.7	3961.2	4642.7	5185.7	5063.5
40°	5473.8	5361.1	4630.0	4152.3	3883.7	3622.0	3719.9	4169.7	4782.8	5480.6	5374.8
42.5°	5793.5	5626.5	4827.6	4473.1	4225.0	3959.6	4076.5	4379.9	4916.6	5732.4	5645.0
45°	6030.0	5822.5	5015.6	4781.2	4695.4	4408.3	4463.6	4620.6	5061.4	5942.5	5867.2
47.5°	6241.2	6019.4	5228.4	5091.9	5106.7	4991.9	4902.9	4900.8	5232.0	6114.2	6077.4
50°	6524.0	6292.8	5456.9	5412.2	5724.0	5647.6	5451.1	5227.8	5448.0	6309.1	6304.9
52.5°	6913.7	6725.7	5736.1	5757.1	6300.2	6350.2	6106.9	5620.7	5786.1	6666.7	6641.4
55°	7374.6	7265.0	6116.3	6153.7	7007.0	7042.8	6801.0	6112.1	6283.3	7184.4	7114.4
57.5°	7734.3	7711.1	6533.5	6629.9	7534.7	7695.9	7473.6	6680.9	6843.7	7620.5	7444.6
60°	7877.6	7989.7	6977.5	7110.2	8022.9	8201.5	8006.6	7180.8	7340.3	7801.2	7422.0
62.5°	7800.1	8050.8	7450.4	7439.4	8131.9	8324.2	8187.2	7458.8	7708.5	7614.7	7046.5
65°	7442.5	7831.2	7724.8	7354.6	7759.1	7774.9	7730.6	7334.6	7795.4	7025.4	6320.7
67.5°	6663.6	7222.9	7363.5	6627.7	6753.1	6650.4	6576.1	6654.1	7342.5	6142.1	5312.1
70°	5427.4	6269.1	6336.5	5301.0	5244.2	5175.2	5027.2	5455.4	6448.7	5034.0	4215.0
72.5°	3990.7	4875.5	5082.5	3888.0	3624.6	3638.8	3521.9	4111.3	5243.1	3739.4	3146.9
75°	2730.3	3530.3	3976.4	2712.9	2396.9	2402.7	2388.0	2913.1	4176.0	2601.3	2354.8
77.5°	1994.5	2522.3	2998.9	1823.9	1770.7	1738.0	1730.1	2038.3	3201.7	1888.7	1828.6
80°	1600.6	1863.4	2014.6	1264.0	1359.4	1356.7	1313.0	1401.5	2090.9	1381.5	1367.8
82.5°	1110.2	1432.0	1632.2	990.7	917.5	902.2	912.7	1043.9	1477.9	944.3	898.0
85°	585.7	951.2	1616.4	878.0	544.6	434.5	540.4	854.8	1280.4	500.3	438.2
87.5°	74.8	274.9	1070.2	350.2	214.9	115.9	256.5	481.4	822.1	102.2	89.0
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°	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0
2.5°	3511.9	3441.9	3350.2	3265.4	3177.5	3090.0	2975.7	2904.1	2854.6	2845.1	2824.1
5°	3426.6	3193.8	3017.9	2865.7	2727.7	2532.8	2424.8	2335.3	2287.4	2282.6	2271.0
7.5°	3033.2	2711.9	2474.3	2258.9	2063.5	1906.1	1732.3	1651.1	1618.0	1625.9	1633.8
10°	2623.9	2264.7	1991.9	1771.8	1599.5	1466.8	1327.2	1233.0	1167.7	1154.5	1151.9
12.5°	2324.8	1930.8	1665.9	1510.5	1377.3	1252.4	1104.4	993.3	908.5	879.6	860.1
15°	2198.4	1767.5	1490.0	1322.5	1175.6	1017.0	879.6	763.2	685.2	659.9	645.7
17.5°	2225.2	1722.2	1368.8	1154.5	966.5	801.1	627.8	528.3	481.4	469.3	469.3
20°	2366.4	1713.8	1268.8	999.6	765.3	573.6	431.4	374.5	359.2	357.6	361.8
22.5°	2564.4	1743.3	1194.0	865.3	594.6	418.7	336.0	315.0	308.1	309.7	314.4
25°	2859.3	1842.9	1139.7	745.8	466.6	342.9	299.7	287.0	283.9	288.1	293.9
27.5°	3209.1	1942.4	1106.0	655.7	394.0	313.4	284.9	271.8	273.9	279.1	284.4
30°	3516.1	2024.0	1052.8	591.5	371.3	315.0	284.9	267.0	264.9	266.0	267.6
32.5°	3791.6	2079.3	990.7	530.4	320.2	279.7	266.0	263.3	251.8	247.5	248.1
35°	4029.1	2079.3	953.3	494.6	287.0	248.1	225.9	212.8	207.0	207.5	213.3
37.5°	4258.2	2037.7	934.9	474.5	269.1	236.0	216.5	204.9	197.0	195.4	196.5
40°	4460.5	1977.2	913.8	466.1	255.4	228.6	210.1	200.7	192.2	189.6	190.1
42.5°	4622.7	1928.2	890.6	455.1	247.0	223.3	205.9	197.5	188.0	185.4	184.9
45°	4798.1	1911.8	860.1	432.9	251.2	223.8	204.9	195.9	186.4	183.3	182.2
47.5°	5029.3	1962.9	828.5	406.6	260.2	226.5	206.5	195.9	185.9	183.3	182.2
50°	5320.5	2083.0	788.4	368.1	251.2	233.8	205.9	194.3	185.9	183.3	181.2
52.5°	5694.5	2245.2	735.8	323.9	246.0	251.8	204.9	191.2	183.3	179.6	175.9
55°	6149.0	2378.0	673.1	287.6	233.8	247.0	203.3	187.5	179.1	173.8	170.6
57.5°	6481.9	2425.9	592.5	263.9	217.0	239.1	201.2	182.8	173.8	169.6	165.4
60°	6416.0	2333.2	524.6	249.1	207.0	215.9	199.6	178.5	169.1	165.9	162.2
62.5°	5888.8	2090.9	480.9	242.3	200.7	197.0	201.2	174.3	164.9	161.7	160.6
65°	5098.3	1733.3	463.5	240.7	195.4	185.9	187.0	169.6	160.1	157.5	156.4
67.5°	4205.5	1398.9	448.2	246.0	188.6	178.0	172.8	163.3	155.4	152.7	150.6
70°	3316.5	1163.4	441.4	242.8	180.1	170.1	164.3	156.4	149.6	146.9	145.4
72.5°	2670.8	982.8	437.7	239.6	169.1	159.6	154.3	147.5	140.1	139.0	137.5
75°	2260.0	772.6	400.8	229.6	156.4	146.9	143.3	136.9	129.6	129.6	128.5
77.5°	1743.3	558.8	333.4	203.3	143.3	132.7	129.6	124.8	116.4	118.0	117.4
80°	1287.7	364.5	260.7	168.5	126.9	116.9	115.3	110.6	101.6	103.8	103.8
82.5°	882.2	239.1	187.5	138.0	108.5	99.0	99.0	94.3	84.3	85.3	88.5
85°	442.9	164.3	140.1	106.9	84.3	79.5	79.5	75.8	65.8	66.4	70.6
87.5°	134.8	99.0	92.7	76.4	60.6	59.5	56.9	54.2	47.9	47.4	50.0
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°	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0
2.5°	2791.9	2761.9	2725.6	2645.5	2618.7	2617.1	2641.3	2616.0	2664.5	2643.9	2666.6
5°	2251.6	2222.1	2181.5	2079.3	2017.2	1975.1	1955.0	1896.0	1938.7	1907.6	1933.4
7.5°	1655.9	1662.7	1635.9	1575.8	1440.5	1372.5	1332.5	1296.7	1327.8	1324.6	1374.1
10°	1164.0	1182.4	1163.4	1102.9	993.3	955.9	963.3	977.5	1018.1	1039.1	1115.5
12.5°	837.9	836.9	824.8	770.5	698.4	702.6	732.6	757.4	794.8	816.9	894.8
15°	625.7	616.2	610.9	566.7	525.6	534.6	549.3	552.0	575.7	588.8	652.0
17.5°	473.0	477.7	483.5	451.9	420.8	415.0	403.4	389.2	396.1	398.7	430.3
20°	375.5	394.5	408.7	386.6	355.0	338.1	323.4	313.9	313.9	313.4	322.3
22.5°	328.1	341.8	357.1	341.8	313.4	298.6	290.2	282.8	281.8	281.8	290.2
25°	302.3	312.3	327.1	316.5	295.5	284.4	276.5	267.0	263.3	262.3	268.1
27.5°	289.7	293.9	301.3	291.8	273.9	268.6	266.5	258.1	253.3	250.7	256.5
30°	268.1	267.0	267.6	258.1	243.9	243.3	247.0	248.6	247.0	246.5	255.4
32.5°	248.1	246.0	245.4	237.0	223.8	220.7	223.8	227.0	230.7	236.0	246.5
35°	222.8	228.1	231.2	223.8	208.0	198.6	194.9	189.1	185.9	185.9	198.0
37.5°	202.8	214.9	219.6	212.8	195.4	182.2	175.9	174.9	175.4	177.5	189.1
40°	195.9	204.9	209.1	202.2	184.9	172.8	169.1	168.0	169.1	172.2	183.8
42.5°	191.7	198.0	197.5	189.1	174.9	166.4	164.3	163.3	164.3	167.5	180.1
45°	188.0	192.2	188.0	178.0	164.9	160.6	161.2	160.6	161.7	164.9	177.0
47.5°	184.9	186.4	181.2	171.2	157.5	156.4	158.5	160.1	161.2	163.8	176.4
50°	180.1	180.1	175.4	164.9	151.2	151.7	154.3	158.0	158.5	161.7	171.7
52.5°	174.3	173.8	170.6	160.6	145.9	147.5	147.5	151.7	152.7	156.4	167.0
55°	169.6	168.5	167.0	157.5	141.2	143.8	142.2	143.8	146.4	150.1	161.7
57.5°	165.4	163.3	163.3	154.8	137.5	138.5	134.8	136.9	140.1	143.3	155.4
60°	161.2	159.1	160.1	151.2	131.7	130.6	129.0	133.3	134.3	138.0	150.1
62.5°	156.4	154.8	155.4	146.9	127.5	124.8	124.8	128.5	129.0	134.3	145.9
65°	152.7	150.6	150.1	142.7	122.7	119.6	121.1	122.7	123.8	129.0	140.1
67.5°	149.1	144.8	144.8	139.0	117.4	114.3	117.4	116.9	118.5	123.2	132.2
70°	144.3	138.5	139.0	136.4	112.2	108.5	111.1	110.6	111.7	114.8	123.8
72.5°	136.9	132.2	133.3	132.2	106.9	101.6	102.7	102.7	102.7	105.3	114.8
75°	127.5	123.8	126.9	129.6	100.6	93.2	94.3	94.3	92.7	94.3	105.9
77.5°	115.9	113.8	124.3	120.6	93.2	84.3	84.3	83.2	80.1	82.2	94.8
80°	103.2	101.6	114.8	101.1	84.8	73.2	72.2	69.5	66.4	67.9	80.6
82.5°	90.1	88.5	96.4	77.4	73.2	60.6	57.9	53.2	50.0	51.6	63.2
85°	73.7	73.7	74.3	58.5	55.8	46.3	43.2	36.9	33.2	34.2	45.3
87.5°	52.7	54.2	50.0	40.0	33.2	25.8	23.7	20.0	16.9	19.5	23.7
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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CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0
2.5°	2782.5	2840.4	2906.2	2990.5	3062.6	3181.1	3294.9	3363.4
5°	2080.4	2176.8	2296.9	2451.2	2595.0	2810.9	3025.3	3162.7
7.5°	1488.9	1592.2	1721.7	1914.5	2117.8	2393.2	2676.6	2840.9
10°	1231.9	1337.8	1446.8	1576.9	1743.3	2043.0	2378.0	2563.4
12.5°	1019.1	1132.4	1249.8	1386.7	1541.1	1808.6	2194.7	2408.0
15°	780.0	906.4	1044.9	1218.2	1411.5	1720.7	2149.4	2381.1
17.5°	534.6	675.7	845.8	1059.7	1296.2	1692.2	2230.5	2497.5
20°	368.1	470.9	652.6	903.3	1187.7	1688.5	2386.4	2720.8
22.5°	308.1	353.9	486.7	759.5	1106.0	1733.8	2628.1	3034.2
25°	284.9	312.3	388.7	634.6	1046.5	1838.1	2961.0	3439.7
27.5°	271.2	296.0	352.9	553.0	999.6	1959.3	3284.9	3832.7
30°	276.5	301.8	342.9	511.4	935.9	2060.4	3572.5	4139.2
32.5°	249.1	260.2	293.9	474.5	890.1	2145.2	3824.2	4393.0
35°	212.3	231.7	262.3	457.2	891.1	2202.1	4098.6	4717.5
37.5°	202.2	221.7	243.9	450.8	903.3	2262.6	4413.6	5097.7
40°	195.9	213.8	232.8	447.2	914.8	2317.9	4722.2	5473.8
42.5°	191.7	208.0	231.7	434.5	920.6	2367.4	4976.1	5793.5
45°	191.2	208.0	236.0	421.9	929.6	2420.6	5188.9	6030.0
47.5°	191.7	214.9	228.1	406.6	929.6	2509.6	5438.5	6241.2
50°	189.6	226.5	219.6	385.0	908.0	2678.2	5780.8	6524.0
52.5°	188.6	224.9	203.3	351.8	870.6	2945.7	6219.6	6913.7
55°	185.9	217.0	191.7	302.3	826.9	3237.5	6689.4	7374.6
57.5°	183.3	192.2	185.4	259.1	759.5	3442.9	7012.7	7734.3
60°	205.4	168.0	180.1	238.1	669.4	3499.3	7000.1	7877.6
62.5°	190.1	157.5	173.3	233.3	606.2	3341.3	6676.7	7800.1
65°	149.1	150.6	166.4	247.0	589.4	2922.5	6103.7	7442.5
67.5°	136.4	143.8	159.6	264.4	590.9	2340.0	5247.3	6663.6
70°	128.5	136.4	151.7	273.3	595.1	1744.4	4148.7	5427.4
72.5°	119.6	126.4	142.7	274.9	567.8	1267.2	3197.5	3990.7
75°	109.0	115.3	130.1	239.6	470.3	879.0	2445.9	2730.3
77.5°	96.9	101.6	114.3	184.9	349.2	562.5	1836.0	1994.5
80°	82.7	85.3	95.9	135.4	239.1	351.8	1452.6	1600.6
82.5°	66.4	67.4	74.3	101.6	155.4	225.9	972.8	1110.2
85°	46.9	46.9	51.1	73.7	105.9	143.3	528.3	585.7
87.5°	22.1	22.6	22.6	40.6	55.3	72.7	121.7	74.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)