

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: P193822

Luminaire Tested: **GLEON-AF-04-LED-E1-SLL-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193822  
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-04-LED-E1-SLL-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 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: 13912 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

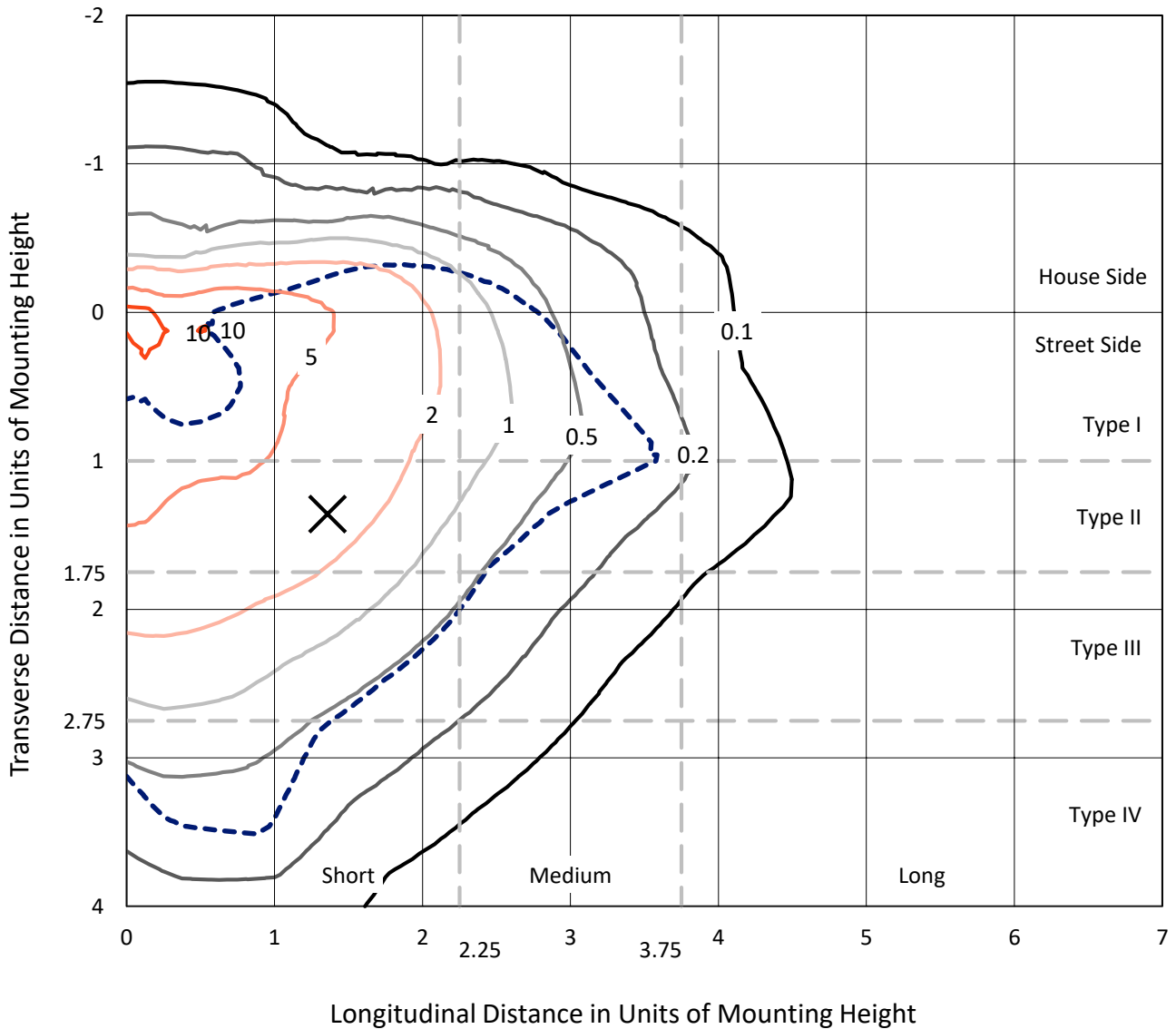
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

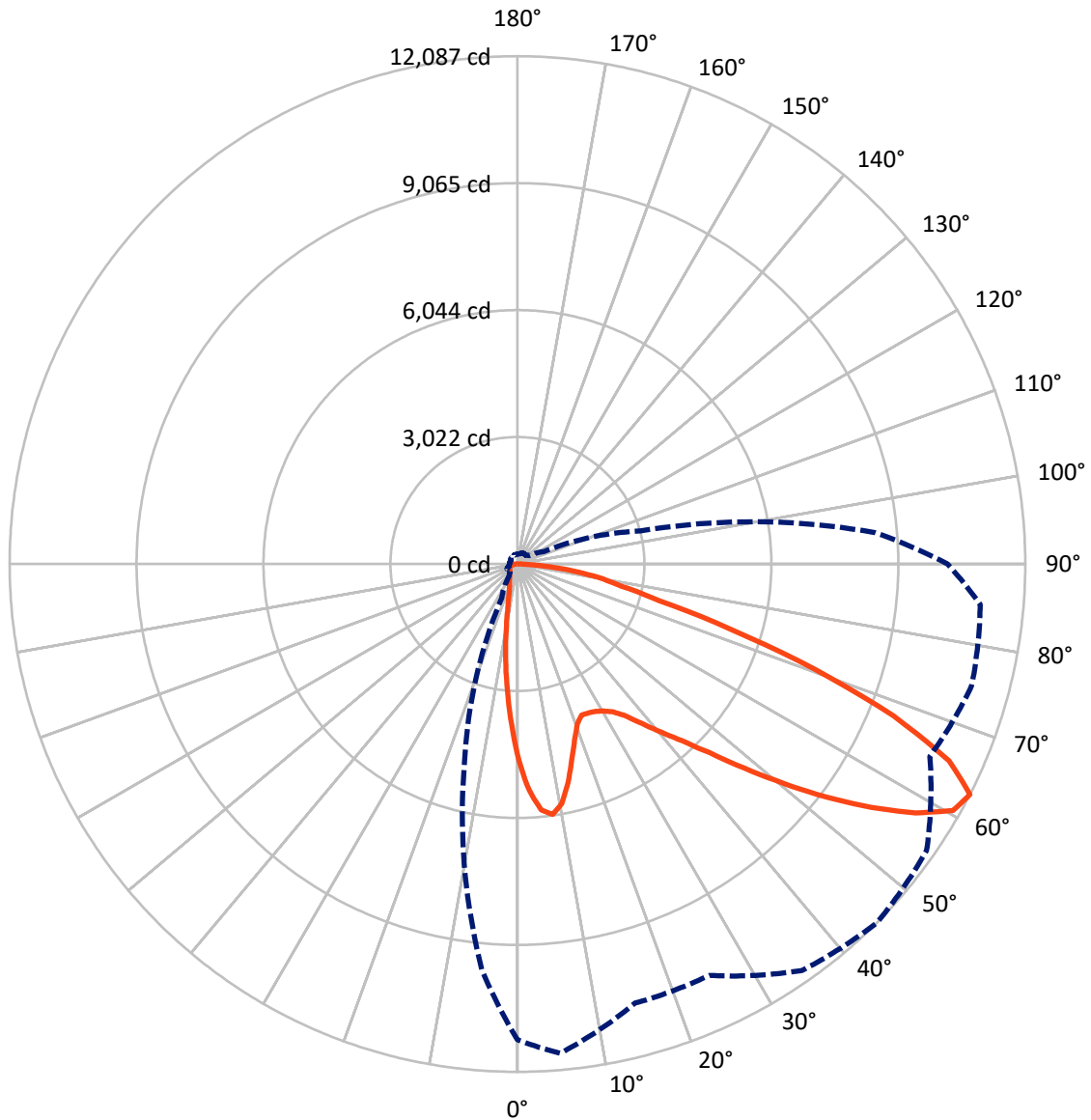
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.8 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	2302.2	0.0	2302.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11609.8	0.0	11609.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13912.0	0.0	13912.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.2	2.5
10°-20°	627.4	4.5
20°-30°	914.8	6.6
30°-40°	1408.9	10.1
40°-50°	2073.5	14.9
50°-60°	3041.4	21.9
60°-70°	3399.8	24.4
70°-80°	1664.5	12.0
80°-90°	439.5	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°	13912.0	100.0
0°-180°	13912.0	100.0



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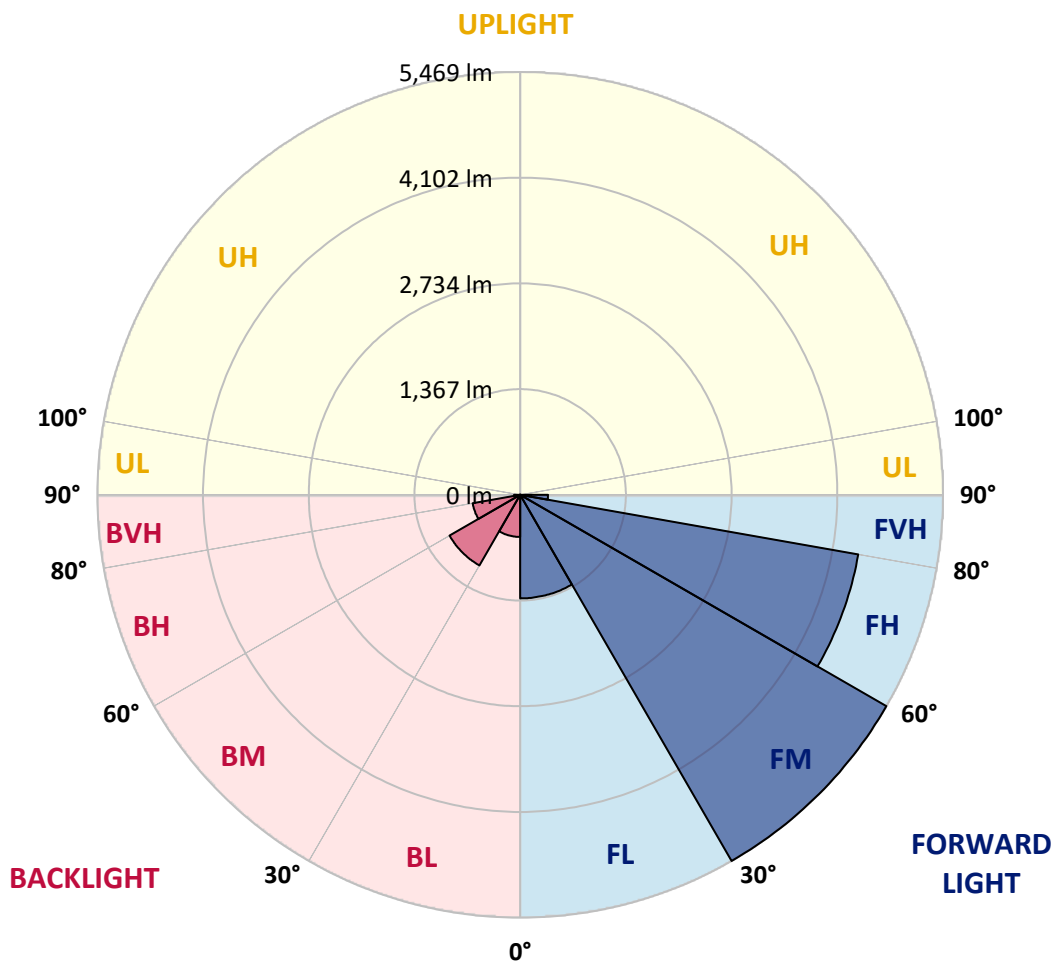
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-8030-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1339.7	9.6			
FM	(30°-60°)	5468.9	39.3			
FH	(60°-80°)	4440.2	31.9			G2/5000
FVH	(80°-90°)	360.9	2.6			G3/500
BL	(0°-30°)	544.7	3.9	B2/1000		
BM	(30°-60°)	1054.9	7.6	B2/2500		
BH	(60°-80°)	624.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	78.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2
2.5°	4883.8	4961.8	5114.0	5227.9	5366.3	5398.5	5442.8	5399.2	5322.0	5219.5	5185.8
5°	4592.4	4759.1	5128.5	5453.5	5742.6	5877.2	5914.7	5803.8	5579.7	5285.3	5105.5
7.5°	4125.1	4362.2	4862.4	5341.1	5767.1	6018.7	6012.6	5754.8	5342.6	4863.1	4574.8
10°	3722.1	3992.8	4566.4	5101.7	5553.7	5797.7	5703.6	5374.0	4882.2	4330.1	4017.3
12.5°	3496.5	3761.9	4343.8	4881.5	5259.3	5343.4	5271.5	4948.8	4485.3	3927.0	3653.3
15°	3457.5	3748.9	4255.1	4692.6	4904.4	4831.0	4745.3	4600.8	4273.5	3797.0	3511.8
17.5°	3626.5	3947.7	4356.8	4561.0	4525.1	4397.4	4372.9	4389.0	4310.2	3941.6	3612.7
20°	3950.8	4336.2	4599.3	4499.1	4236.8	4060.9	4067.0	4312.5	4545.7	4307.9	3932.4
22.5°	4405.8	4845.5	4948.8	4532.0	4115.2	3906.4	3956.9	4354.6	4921.2	4843.2	4363.7
25°	4994.7	5395.4	5321.2	4651.3	4127.4	3925.5	3966.1	4499.9	5364.8	5378.6	4897.5
27.5°	5565.2	5936.8	5634.0	4809.6	4177.9	3970.6	4024.2	4728.5	5788.5	5959.8	5507.8
30°	6010.3	6268.7	5757.9	4954.1	4277.3	4058.6	4125.1	4945.7	5981.2	6352.1	5977.4
32.5°	6378.9	6564.7	5955.2	5133.1	4460.1	4197.0	4314.0	5209.6	6258.8	6725.3	6437.0
35°	6850.0	6902.7	6200.7	5332.7	4742.3	4437.9	4583.2	5468.0	6523.4	7102.3	6889.7
37.5°	7402.1	7334.1	6432.4	5605.7	5107.1	4814.9	4935.0	5751.8	6741.4	7529.8	7352.4
40°	7948.2	7784.5	6723.0	6029.4	5639.3	5259.3	5401.5	6054.6	6944.8	7958.1	7804.4
42.5°	8412.4	8169.9	7009.8	6495.1	6134.9	5749.5	5919.3	6359.8	7139.0	8323.7	8196.7
45°	8755.8	8454.4	7282.8	6942.5	6817.8	6401.1	6481.4	6709.3	7349.4	8628.8	8519.4
47.5°	9062.4	8740.5	7591.8	7393.7	7415.1	7248.4	7119.2	7116.1	7597.1	8878.1	8824.6
50°	9473.1	9137.4	7923.7	7858.7	8311.4	8200.5	7915.3	7591.0	7910.7	9161.1	9155.0
52.5°	10039.0	9766.0	8329.0	8359.6	9148.1	9220.7	8867.4	8161.5	8401.7	9680.3	9643.6
55°	10708.2	10549.1	8881.2	8935.5	10174.4	10226.4	9875.4	8875.1	9123.6	10432.1	10330.4
57.5°	11230.5	11196.9	9486.9	9626.8	10940.7	11174.7	10852.0	9701.0	9937.3	11065.3	10809.9
60°	11438.5	11601.4	10131.6	10324.3	11649.6	11908.9	11625.9	10426.8	10658.5	11327.6	10777.0
62.5°	11326.1	11690.1	10818.3	10802.3	11807.9	12087.1	11888.2	10830.5	11193.0	11056.9	10231.7
65°	10806.8	11371.2	11216.8	10679.1	11266.5	11289.4	11225.2	10650.1	11319.2	10201.2	9177.9
67.5°	9675.8	10487.9	10692.1	9623.8	9805.8	9656.6	9548.8	9662.0	10661.5	8918.6	7713.4
70°	7880.9	9103.0	9200.8	7697.3	7614.7	7514.5	7299.6	7921.4	9363.7	7309.6	6120.4
72.5°	5794.6	7079.4	7379.9	5645.5	5263.1	5283.7	5114.0	5969.7	7613.2	5429.8	4569.4
75°	3964.5	5126.2	5773.9	3939.3	3480.4	3488.8	3467.4	4229.9	6063.8	3777.2	3419.2
77.5°	2896.2	3662.4	4354.6	2648.4	2571.1	2523.7	2512.2	2959.6	4649.0	2742.4	2655.3
80°	2324.1	2705.7	2925.2	1835.4	1973.8	1970.0	1906.5	2035.0	3036.1	2006.0	1986.1
82.5°	1612.1	2079.4	2370.0	1438.5	1332.2	1310.0	1325.3	1515.8	2145.9	1371.2	1303.9
85°	850.4	1381.2	2347.1	1274.9	790.8	630.9	784.6	1241.2	1859.1	726.5	636.3
87.5°	108.6	399.2	1554.0	508.6	312.0	168.2	372.4	699.0	1193.8	148.4	129.2
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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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2
2.5°	5099.4	4997.7	4864.6	4741.5	4613.8	4486.9	4320.9	4216.9	4145.0	4131.2	4100.7
5°	4975.5	4637.5	4382.1	4161.1	3960.7	3677.7	3521.0	3391.0	3321.4	3314.5	3297.7
7.5°	4404.3	3937.8	3592.8	3280.1	2996.3	2767.7	2515.3	2397.5	2349.3	2360.8	2372.3
10°	3810.0	3288.5	2892.3	2572.7	2322.6	2129.9	1927.2	1790.3	1695.5	1676.4	1672.5
12.5°	3375.7	2803.6	2418.9	2193.3	1999.9	1818.6	1603.7	1442.3	1319.2	1277.2	1248.9
15°	3192.1	2566.5	2163.5	1920.3	1706.9	1476.8	1277.2	1108.1	995.0	958.2	937.6
17.5°	3231.1	2500.8	1987.6	1676.4	1403.3	1163.2	911.6	767.1	699.0	681.4	681.4
20°	3436.1	2488.5	1842.3	1451.5	1111.2	832.8	626.3	543.7	521.6	519.3	525.4
22.5°	3723.6	2531.4	1733.7	1256.5	863.4	608.0	487.9	457.3	447.4	449.7	456.6
25°	4151.9	2675.9	1654.9	1082.9	677.6	497.9	435.1	416.8	412.2	418.3	426.7
27.5°	4659.7	2820.4	1606.0	952.1	572.0	455.0	413.7	394.6	397.7	405.3	413.0
30°	5105.5	2939.0	1528.8	858.8	539.2	457.3	413.7	387.7	384.7	386.2	388.5
32.5°	5505.5	3019.3	1438.5	770.1	465.0	406.1	386.2	382.4	365.6	359.4	360.2
35°	5850.4	3019.3	1384.2	718.1	416.8	360.2	328.1	309.0	300.6	301.3	309.7
37.5°	6183.1	2958.9	1357.5	689.0	390.8	342.6	314.3	297.5	286.0	283.7	285.3
40°	6476.8	2870.9	1326.9	676.8	370.9	331.9	305.1	291.4	279.1	275.3	276.1
42.5°	6712.3	2799.8	1293.2	660.8	358.7	324.3	299.0	286.8	273.0	269.2	268.4
45°	6967.0	2776.1	1248.9	628.6	364.8	325.0	297.5	284.5	270.7	266.1	264.6
47.5°	7302.7	2850.3	1203.0	590.4	377.8	328.8	299.8	284.5	270.0	266.1	264.6
50°	7725.6	3024.6	1144.8	534.6	364.8	339.6	299.0	282.2	270.0	266.1	263.1
52.5°	8268.6	3260.2	1068.4	470.3	357.1	365.6	297.5	277.6	266.1	260.8	255.4
55°	8928.6	3452.9	977.4	417.6	339.6	358.7	295.2	272.3	260.0	252.4	247.8
57.5°	9411.9	3522.5	860.4	383.1	315.1	347.2	292.1	265.4	252.4	246.3	240.1
60°	9316.3	3387.9	761.7	361.7	300.6	313.6	289.8	259.3	245.5	240.9	235.5
62.5°	8550.8	3036.1	698.2	351.8	291.4	286.0	292.1	253.1	239.4	234.8	233.3
65°	7402.9	2516.8	673.0	349.5	283.7	270.0	271.5	246.3	232.5	228.7	227.1
67.5°	6106.6	2031.2	650.8	357.1	273.8	258.5	250.8	237.1	225.6	221.8	218.7
70°	4815.7	1689.4	640.9	352.6	261.5	247.0	238.6	227.1	217.2	213.4	211.1
72.5°	3878.1	1427.0	635.5	348.0	245.5	231.7	224.1	214.1	203.4	201.9	199.6
75°	3281.6	1121.9	582.0	333.4	227.1	213.4	208.0	198.8	188.1	188.1	186.6
77.5°	2531.4	811.4	484.1	295.2	208.0	192.7	188.1	181.2	169.0	171.3	170.5
80°	1869.8	529.2	378.6	244.7	184.3	169.8	167.5	160.6	147.6	150.7	150.7
82.5°	1281.0	347.2	272.3	200.4	157.5	143.8	143.8	136.9	122.4	123.9	128.5
85°	643.2	238.6	203.4	155.2	122.4	115.5	115.5	110.1	95.6	96.4	102.5
87.5°	195.8	143.8	134.6	110.9	87.9	86.4	82.6	78.8	69.6	68.8	72.7
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°	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2
2.5°	4054.0	4010.4	3957.6	3841.4	3802.4	3800.1	3835.3	3798.6	3868.9	3839.1	3872.0
5°	3269.4	3226.5	3167.6	3019.3	2929.0	2867.9	2838.8	2753.1	2815.1	2770.0	2807.4
7.5°	2404.4	2414.4	2375.3	2288.2	2091.6	1993.0	1934.8	1882.8	1928.0	1923.4	1995.3
10°	1690.1	1716.9	1689.4	1601.4	1442.3	1388.0	1398.7	1419.4	1478.3	1508.9	1619.8
12.5°	1216.7	1215.2	1197.6	1118.8	1014.1	1020.2	1063.8	1099.7	1154.0	1186.1	1299.3
15°	908.5	894.8	887.1	822.9	763.2	776.2	797.6	801.5	835.9	855.0	946.8
17.5°	686.8	693.6	702.1	656.2	611.0	602.6	585.8	565.2	575.1	578.9	624.8
20°	545.3	572.8	593.5	561.3	515.4	491.0	469.6	455.8	455.8	455.0	468.0
22.5°	476.4	496.3	518.5	496.3	455.0	433.6	421.4	410.7	409.1	409.1	421.4
25°	439.0	453.5	474.9	459.6	429.0	413.0	401.5	387.7	382.4	380.9	389.3
27.5°	420.6	426.7	437.4	423.7	397.7	390.0	387.0	374.7	367.9	364.0	372.4
30°	389.3	387.7	388.5	374.7	354.1	353.3	358.7	361.0	358.7	357.9	370.9
32.5°	360.2	357.1	356.4	344.1	325.0	320.4	325.0	329.6	335.0	342.6	357.9
35°	323.5	331.1	335.7	325.0	302.1	288.3	283.0	274.5	270.0	270.0	287.6
37.5°	294.4	312.0	318.9	309.0	283.7	264.6	255.4	253.9	254.7	257.7	274.5
40°	284.5	297.5	303.6	293.7	268.4	250.8	245.5	244.0	245.5	250.1	266.9
42.5°	278.4	287.6	286.8	274.5	253.9	241.7	238.6	237.1	238.6	243.2	261.5
45°	273.0	279.1	273.0	258.5	239.4	233.3	234.0	233.3	234.8	239.4	257.0
47.5°	268.4	270.7	263.1	248.5	228.7	227.1	230.2	232.5	234.0	237.8	256.2
50°	261.5	261.5	254.7	239.4	219.5	220.3	224.1	229.4	230.2	234.8	249.3
52.5°	253.1	252.4	247.8	233.3	211.8	214.1	214.1	220.3	221.8	227.1	242.4
55°	246.3	244.7	242.4	228.7	205.0	208.8	206.5	208.8	212.6	218.0	234.8
57.5°	240.1	237.1	237.1	224.8	199.6	201.1	195.8	198.8	203.4	208.0	225.6
60°	234.0	231.0	232.5	219.5	191.2	189.7	187.4	193.5	195.0	200.4	218.0
62.5°	227.1	224.8	225.6	213.4	185.1	181.2	181.2	186.6	187.4	195.0	211.8
65°	221.8	218.7	218.0	207.3	178.2	173.6	175.9	178.2	179.7	187.4	203.4
67.5°	216.4	210.3	210.3	201.9	170.5	166.0	170.5	169.8	172.1	179.0	192.0
70°	209.5	201.1	201.9	198.1	162.9	157.5	161.4	160.6	162.1	166.7	179.7
72.5°	198.8	192.0	193.5	192.0	155.2	147.6	149.1	149.1	149.1	153.0	166.7
75°	185.1	179.7	184.3	188.1	146.1	135.4	136.9	136.9	134.6	136.9	153.7
77.5°	168.2	165.2	180.5	175.1	135.4	122.4	122.4	120.8	116.2	119.3	137.7
80°	149.9	147.6	166.7	146.8	123.1	106.3	104.8	100.9	96.4	98.7	117.0
82.5°	130.8	128.5	140.0	112.4	106.3	87.9	84.1	77.2	72.7	74.9	91.8
85°	107.1	107.1	107.8	84.9	81.1	67.3	62.7	53.5	48.2	49.7	65.8
87.5°	76.5	78.8	72.7	58.1	48.2	37.5	34.4	29.1	24.5	28.3	34.4
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-04-LED-E1-SLL-8030-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2
2.5°	4040.2	4124.4	4220.0	4342.3	4447.1	4619.2	4784.3	4883.8
5°	3020.8	3160.8	3335.1	3559.2	3768.0	4081.5	4392.8	4592.4
7.5°	2162.0	2311.9	2500.0	2779.9	3075.1	3475.1	3886.5	4125.1
10°	1788.8	1942.5	2100.8	2289.7	2531.4	2966.5	3452.9	3722.1
12.5°	1479.8	1644.2	1814.8	2013.6	2237.7	2626.2	3186.8	3496.5
15°	1132.6	1316.2	1517.3	1768.9	2049.6	2498.5	3121.0	3457.5
17.5°	776.2	981.2	1228.2	1538.7	1882.1	2457.2	3238.8	3626.5
20°	534.6	683.7	947.5	1311.6	1724.5	2451.8	3465.1	3950.8
22.5°	447.4	513.9	706.6	1102.8	1606.0	2517.6	3816.2	4405.8
25°	413.7	453.5	564.4	921.5	1519.6	2669.0	4299.5	4994.7
27.5°	393.9	429.8	512.4	803.0	1451.5	2844.9	4769.8	5565.2
30°	401.5	438.2	497.9	742.6	1359.0	2991.7	5187.4	6010.3
32.5°	361.7	377.8	426.7	689.0	1292.4	3114.9	5552.9	6378.9
35°	308.2	336.5	380.9	663.8	1294.0	3197.5	5951.4	6850.0
37.5°	293.7	322.0	354.1	654.6	1311.6	3285.4	6408.7	7402.1
40°	284.5	310.5	338.0	649.3	1328.4	3365.7	6856.8	7948.2
42.5°	278.4	302.1	336.5	630.9	1336.8	3437.6	7225.5	8412.4
45°	277.6	302.1	342.6	612.6	1349.8	3514.8	7534.4	8755.8
47.5°	278.4	312.0	331.1	590.4	1349.8	3644.1	7896.9	9062.4
50°	275.3	328.8	318.9	559.0	1318.4	3888.8	8394.0	9473.1
52.5°	273.8	326.6	295.2	510.9	1264.2	4277.3	9031.1	10039.0
55°	270.0	315.1	278.4	439.0	1200.7	4701.0	9713.2	10708.2
57.5°	266.1	279.1	269.2	376.3	1102.8	4999.2	10182.8	11230.5
60°	298.3	244.0	261.5	345.7	972.0	5081.1	10164.4	11438.5
62.5°	276.1	228.7	251.6	338.8	880.2	4851.6	9694.9	11326.1
65°	216.4	218.7	241.7	358.7	855.8	4243.7	8862.8	10806.8
67.5°	198.1	208.8	231.7	383.9	858.1	3397.8	7619.3	9675.8
70°	186.6	198.1	220.3	396.9	864.2	2532.9	6024.0	7880.9
72.5°	173.6	183.5	207.3	399.2	824.4	1840.0	4642.9	5794.6
75°	158.3	167.5	188.9	348.0	682.9	1276.4	3551.6	3964.5
77.5°	140.7	147.6	166.0	268.4	507.0	816.8	2666.0	2896.2
80°	120.1	123.9	139.2	196.5	347.2	510.9	2109.2	2324.1
82.5°	96.4	97.9	107.8	147.6	225.6	328.1	1412.5	1612.1
85°	68.1	68.1	74.2	107.1	153.7	208.0	767.1	850.4
87.5°	32.1	32.9	32.9	58.9	80.3	105.5	176.7	108.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)