

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: P269169

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269169  
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-03-LED-E1-SLL-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA 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: 13875.2 lumens  
Efficiency: N/A  
Efficacy: 83.6 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

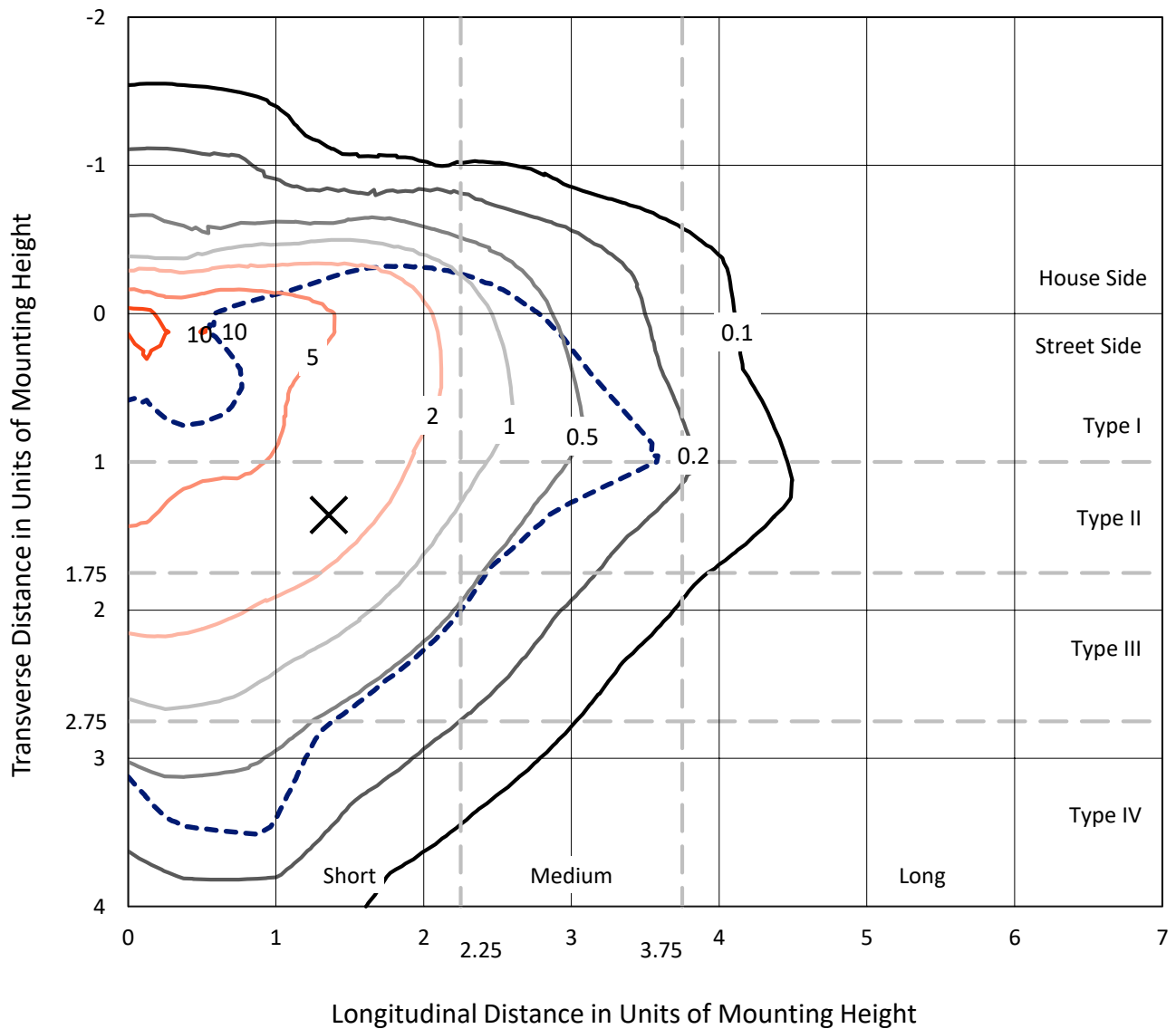
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

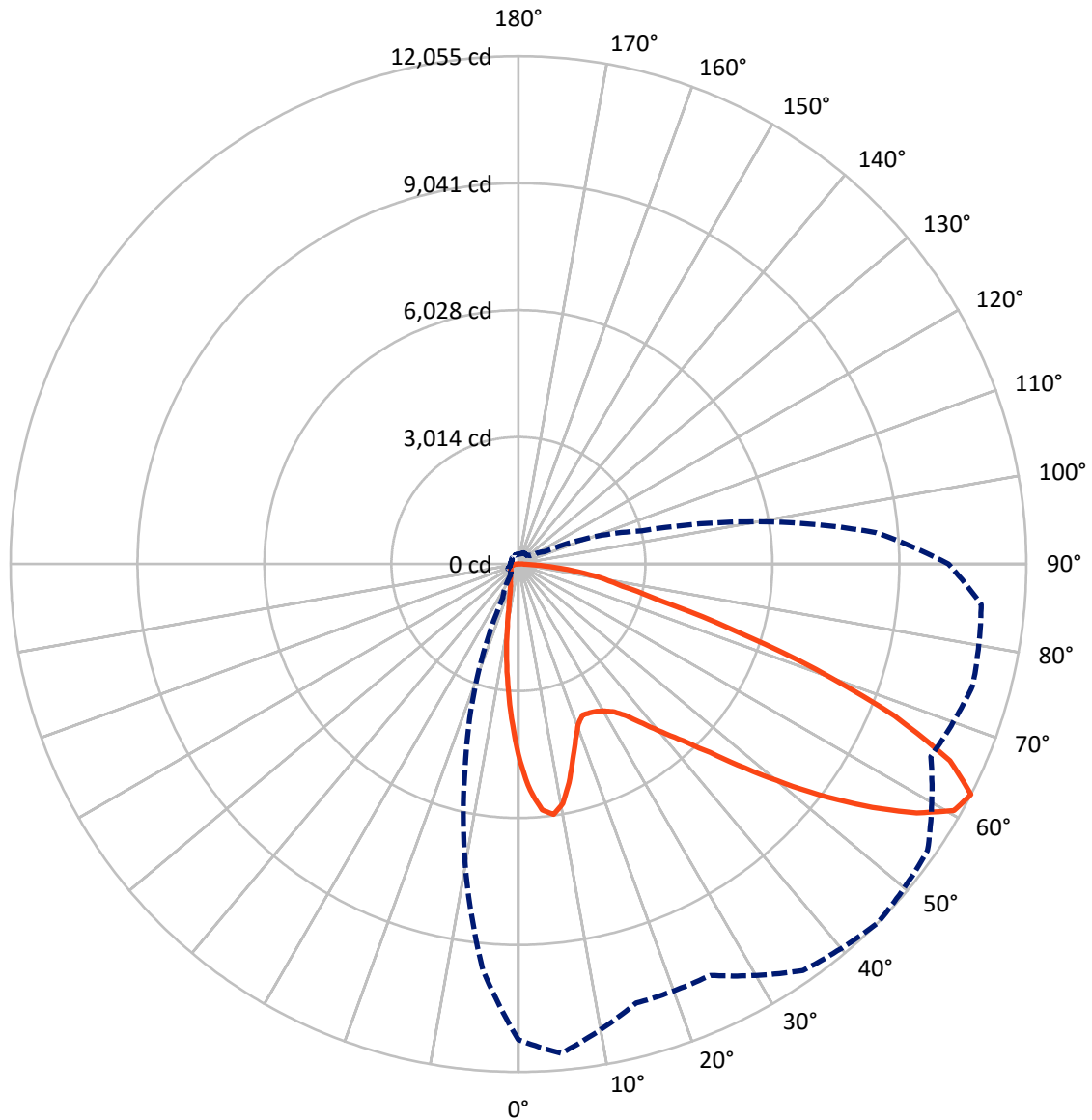
✕ Max cd  
 - - - 1/2 Max cd



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	2296.2	0.0	2296.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11579.1	0.0	11579.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13875.2	0.0	13875.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.2	2.5
10°-20°	625.8	4.5
20°-30°	912.4	6.6
30°-40°	1405.2	10.1
40°-50°	2068.0	14.9
50°-60°	3033.4	21.9
60°-70°	3390.9	24.4
70°-80°	1660.1	12.0
80°-90°	438.3	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°	13875.2	100.0
0°-180°	13875.2	100.0



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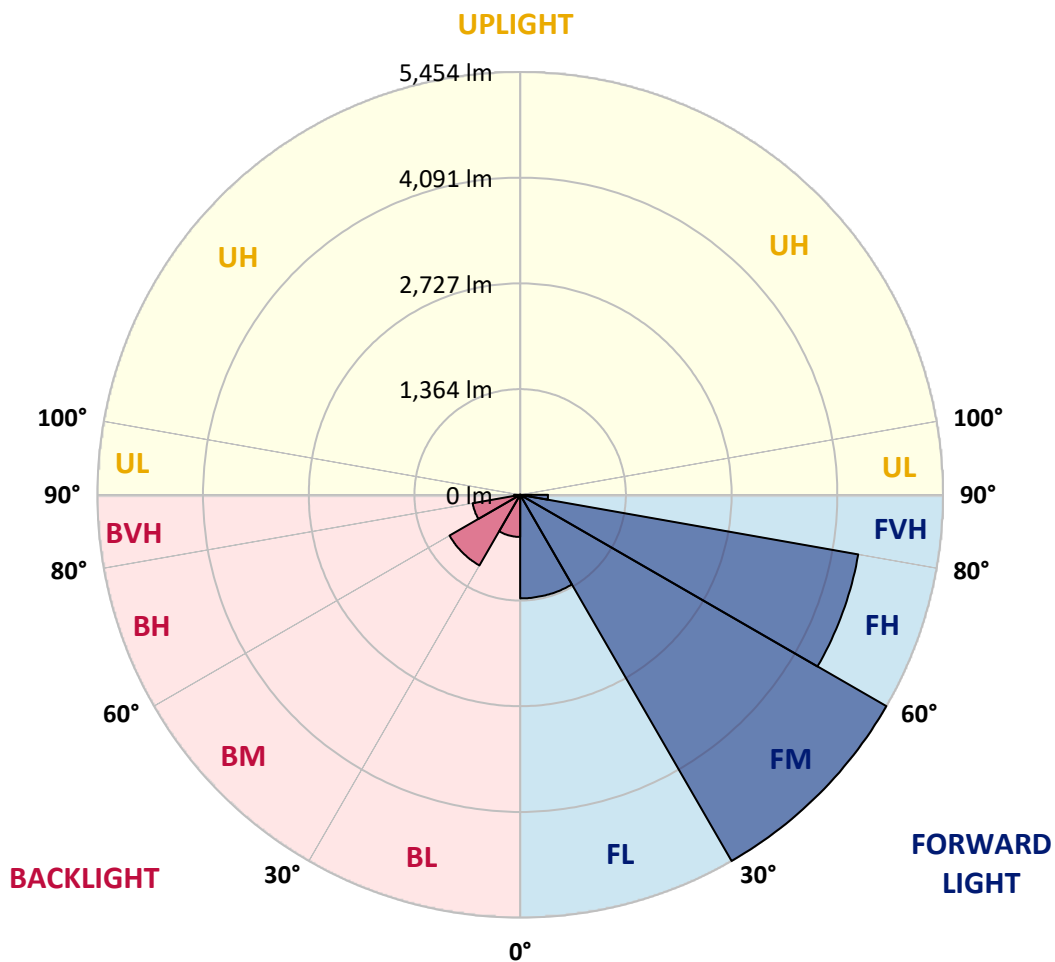
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1336.1	9.6			
FM	(30°-60°)	5454.5	39.3			
FH	(60°-80°)	4428.5	31.9			G2/5000
FVH	(80°-90°)	360.0	2.6			G3/500
BL	(0°-30°)	543.2	3.9	B2/1000		
BM	(30°-60°)	1052.1	7.6	B2/2500		
BH	(60°-80°)	622.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	78.4	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°	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7
2.5°	4870.9	4948.7	5100.4	5214.1	5352.1	5384.3	5428.4	5384.9	5307.8	5205.7	5172.1
5°	4580.3	4746.6	5114.9	5439.1	5727.5	5861.6	5899.0	5788.4	5564.9	5271.3	5092.0
7.5°	4114.1	4350.6	4849.5	5326.9	5751.8	6002.7	5996.6	5739.6	5328.4	4850.3	4562.8
10°	3712.2	3982.2	4554.2	5088.2	5538.9	5782.3	5688.4	5359.7	4869.4	4318.6	4006.7
12.5°	3487.2	3752.0	4332.3	4868.5	5245.4	5329.3	5257.6	4935.6	4473.5	3916.7	3643.5
15°	3448.4	3738.9	4244.0	4680.2	4891.5	4818.1	4732.8	4588.6	4262.2	3787.0	3502.5
17.5°	3616.8	3937.2	4345.3	4548.9	4513.2	4385.7	4361.4	4377.4	4298.7	3931.2	3603.2
20°	3940.3	4324.7	4587.1	4487.3	4225.5	4050.2	4056.2	4301.1	4533.7	4296.6	3922.0
22.5°	4394.1	4832.7	4935.6	4520.0	4104.3	3896.0	3946.4	4343.0	4908.2	4830.5	4352.2
25°	4981.5	5381.1	5307.1	4638.9	4116.6	3915.2	3955.5	4487.9	5350.7	5364.4	4884.5
27.5°	5550.4	5921.2	5619.1	4796.9	4166.9	3960.2	4013.5	4716.0	5773.1	5944.1	5493.2
30°	5994.4	6252.2	5742.7	4940.9	4266.1	4047.9	4114.1	4932.7	5965.4	6335.2	5961.5
32.5°	6361.9	6547.3	5939.5	5119.5	4448.2	4185.9	4302.6	5195.7	6242.2	6707.6	6419.9
35°	6831.9	6884.5	6184.3	5318.5	4729.8	4426.2	4571.0	5453.6	6506.2	7083.6	6871.6
37.5°	7382.5	7314.7	6415.3	5591.0	5093.6	4802.2	4922.0	5736.5	6723.5	7509.9	7333.0
40°	7927.2	7764.0	6705.2	6013.4	5624.5	5245.4	5387.2	6038.5	6926.4	7937.1	7783.8
42.5°	8390.1	8148.3	6991.2	6477.9	6118.6	5734.3	5903.7	6342.9	7120.1	8301.6	8175.0
45°	8732.7	8432.1	7263.5	6924.1	6799.8	6384.2	6464.3	6691.6	7329.9	8606.0	8496.9
47.5°	9038.4	8717.3	7571.8	7374.1	7395.6	7229.2	7100.4	7097.2	7577.1	8854.7	8801.2
50°	9448.1	9113.1	7902.7	7837.9	8289.4	8178.9	7894.3	7570.9	7889.8	9136.8	9130.7
52.5°	10012.5	9740.1	8306.9	8337.4	9123.8	9196.4	8844.0	8139.9	8379.4	9654.8	9618.2
55°	10679.9	10521.2	8857.6	8911.8	10147.4	10199.4	9849.2	8851.5	9099.6	10404.4	10303.1
57.5°	11200.8	11167.3	9461.8	9601.4	10911.7	11145.1	10823.3	9675.4	9911.0	11036.0	10781.3
60°	11408.2	11570.8	10104.8	10297.0	11618.8	11877.4	11595.1	10399.1	10630.4	11297.7	10748.5
62.5°	11296.1	11659.2	10789.7	10773.7	11776.7	12055.1	11856.8	10801.8	11163.4	11027.7	10204.7
65°	10778.3	11341.1	11187.1	10650.8	11236.7	11259.5	11195.4	10621.9	11289.3	10174.2	9153.5
67.5°	9650.1	10460.3	10663.9	9598.3	9779.8	9631.1	9523.6	9636.5	10633.3	8895.0	7692.9
70°	7860.0	9078.9	9176.5	7676.9	7594.6	7494.6	7280.4	7900.5	9339.0	7290.3	6104.3
72.5°	5779.2	7060.7	7360.4	5630.5	5249.2	5269.7	5100.4	5954.0	7593.1	5415.4	4557.5
75°	3954.0	5112.7	5758.7	3928.8	3471.2	3479.7	3458.2	4218.7	6047.7	3767.1	3410.1
77.5°	2888.5	3652.8	4343.0	2641.3	2564.3	2517.1	2505.6	2951.8	4636.7	2735.2	2648.3
80°	2317.9	2698.6	2917.4	1830.6	1968.6	1964.9	1901.5	2029.6	3028.0	2000.6	1980.9
82.5°	1607.8	2073.8	2363.7	1434.8	1328.8	1306.6	1321.9	1511.8	2140.2	1367.6	1300.4
85°	848.2	1377.6	2340.9	1271.6	788.7	629.3	782.6	1238.0	1854.2	724.7	634.7
87.5°	108.3	398.2	1549.8	507.3	311.3	167.9	371.4	697.2	1190.7	148.0	128.8
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°	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7
2.5°	5085.9	4984.4	4851.7	4728.9	4601.6	4474.9	4309.4	4205.8	4134.0	4120.3	4089.9
5°	4962.3	4625.3	4370.6	4150.1	3950.2	3668.0	3511.7	3381.9	3312.6	3305.8	3289.0
7.5°	4392.6	3927.3	3583.3	3271.4	2988.4	2760.3	2508.6	2391.2	2343.0	2354.5	2366.0
10°	3800.0	3279.8	2884.6	2565.9	2316.4	2124.2	1922.2	1785.7	1691.0	1671.9	1668.2
12.5°	3366.8	2796.2	2412.6	2187.6	1994.5	1813.8	1599.4	1438.5	1315.7	1273.7	1245.6
15°	3183.7	2559.7	2157.8	1915.2	1702.5	1472.9	1273.7	1105.3	992.3	955.6	935.1
17.5°	3222.6	2494.1	1982.4	1671.9	1399.6	1160.2	909.2	765.0	697.2	679.6	679.6
20°	3426.9	2481.9	1837.5	1447.7	1108.2	830.7	624.7	542.2	520.2	518.0	524.0
22.5°	3713.8	2524.6	1729.1	1253.1	861.1	606.4	486.6	456.1	446.2	448.6	455.4
25°	4140.8	2668.9	1650.5	1080.0	675.7	496.6	434.1	415.6	411.2	417.3	425.5
27.5°	4647.4	2813.0	1601.8	949.6	570.6	453.9	412.6	393.5	396.6	404.2	412.0
30°	5092.0	2931.2	1524.8	856.5	537.7	456.1	412.6	386.7	383.7	385.3	387.4
32.5°	5491.0	3011.3	1434.8	768.1	463.7	405.0	385.3	381.4	364.6	358.6	359.2
35°	5834.9	3011.3	1380.5	716.2	415.6	359.2	327.3	308.2	299.8	300.6	308.8
37.5°	6166.8	2951.0	1353.8	687.3	389.8	341.7	313.5	296.7	285.2	283.0	284.6
40°	6459.6	2863.3	1323.4	675.0	369.9	331.0	304.3	290.6	278.5	274.6	275.3
42.5°	6694.6	2792.4	1289.7	658.9	357.7	323.4	298.2	286.0	272.2	268.5	267.8
45°	6948.6	2768.8	1245.6	626.9	363.9	324.2	296.7	283.8	270.0	265.4	263.9
47.5°	7283.4	2842.7	1199.7	588.7	376.7	328.1	299.0	283.8	269.2	265.4	263.9
50°	7705.2	3016.6	1141.8	533.1	363.9	338.7	298.2	281.4	269.2	265.4	262.3
52.5°	8246.7	3251.5	1065.6	469.0	356.2	364.6	296.7	276.9	265.4	260.1	254.8
55°	8905.0	3443.7	974.8	416.5	338.7	357.7	294.5	271.6	259.3	251.7	247.2
57.5°	9387.0	3513.2	858.2	382.0	314.2	346.2	291.4	264.7	251.7	245.5	239.5
60°	9291.7	3379.0	759.6	360.8	299.8	312.7	289.1	258.5	244.9	240.2	234.9
62.5°	8528.1	3028.0	696.4	350.9	290.6	285.2	291.4	252.5	238.7	234.2	232.7
65°	7383.3	2510.1	671.3	348.5	283.0	269.2	270.7	245.5	231.9	228.1	226.6
67.5°	6090.5	2025.9	649.0	356.2	273.1	257.9	250.2	236.4	225.0	221.3	218.2
70°	4803.0	1685.0	639.1	351.6	260.9	246.3	238.1	226.6	216.6	212.8	210.6
72.5°	3867.8	1423.3	633.8	347.0	244.9	231.1	223.5	213.5	202.8	201.4	199.1
75°	3273.0	1118.8	580.5	332.6	226.6	212.8	207.5	198.3	187.7	187.7	186.0
77.5°	2524.6	809.3	482.7	294.5	207.5	192.1	187.7	180.7	168.5	170.9	170.0
80°	1864.9	527.8	377.6	244.1	183.9	169.3	167.1	160.2	147.2	150.2	150.2
82.5°	1277.6	346.2	271.6	199.9	157.2	143.4	143.4	136.5	122.0	123.5	128.2
85°	641.5	238.1	202.8	154.9	122.0	115.2	115.2	109.9	95.3	96.1	102.1
87.5°	195.2	143.4	134.2	110.6	87.8	86.1	82.4	78.5	69.3	68.6	72.5
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°	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7
2.5°	4043.4	3999.9	3947.2	3831.2	3792.4	3790.0	3825.2	3788.5	3858.7	3828.9	3861.8
5°	3260.7	3218.0	3159.2	3011.3	2921.3	2860.3	2831.3	2745.8	2807.7	2762.6	2799.9
7.5°	2398.0	2407.9	2369.1	2282.1	2086.1	1987.7	1929.6	1877.8	1922.8	1918.3	1989.9
10°	1685.7	1712.3	1685.0	1597.1	1438.5	1384.4	1395.1	1415.6	1474.4	1504.9	1615.5
12.5°	1213.5	1212.1	1194.4	1115.9	1011.4	1017.5	1061.0	1096.8	1151.0	1183.0	1295.8
15°	906.1	892.3	884.8	820.7	761.3	774.2	795.4	799.3	833.6	852.8	944.3
17.5°	685.0	691.9	700.1	654.4	609.4	601.1	584.3	563.6	573.6	577.4	623.2
20°	543.8	571.3	592.0	559.9	514.1	489.7	468.3	454.6	454.6	453.9	466.8
22.5°	475.3	495.1	517.2	495.1	453.9	432.4	420.2	409.5	408.1	408.1	420.2
25°	437.8	452.2	473.6	458.5	428.0	412.0	400.5	386.7	381.4	379.9	388.2
27.5°	419.5	425.5	436.2	422.6	396.6	389.0	385.9	373.8	366.9	363.1	371.4
30°	388.2	386.7	387.4	373.8	353.2	352.3	357.7	360.0	357.7	356.9	369.9
32.5°	359.2	356.2	355.4	343.2	324.2	319.5	324.2	328.7	334.1	341.7	356.9
35°	322.6	330.2	334.9	324.2	301.3	287.5	282.2	273.9	269.2	269.2	286.7
37.5°	293.7	311.3	318.1	308.2	283.0	263.9	254.8	253.2	254.0	257.1	273.9
40°	283.8	296.7	302.8	292.8	267.8	250.2	244.9	243.4	244.9	249.4	266.2
42.5°	277.7	286.7	286.0	273.9	253.2	241.0	238.1	236.4	238.1	242.5	260.9
45°	272.2	278.5	272.2	257.9	238.7	232.7	233.4	232.7	234.2	238.7	256.2
47.5°	267.8	270.0	262.3	247.9	228.1	226.6	229.5	231.9	233.4	237.2	255.5
50°	260.9	260.9	254.0	238.7	218.8	219.6	223.5	228.8	229.5	234.2	248.7
52.5°	252.5	251.7	247.2	232.7	211.3	213.5	213.5	219.6	221.3	226.6	241.9
55°	245.5	244.1	241.9	228.1	204.5	208.2	205.9	208.2	212.0	217.4	234.2
57.5°	239.5	236.4	236.4	224.2	199.1	200.6	195.2	198.3	202.8	207.5	225.0
60°	233.4	230.3	231.9	218.8	190.7	189.2	186.8	193.0	194.6	199.9	217.4
62.5°	226.6	224.2	225.0	212.8	184.6	180.7	180.7	186.0	186.8	194.6	211.3
65°	221.3	218.2	217.4	206.7	177.8	173.2	175.3	177.8	179.2	186.8	202.8
67.5°	215.9	209.8	209.8	201.4	170.0	165.5	170.0	169.3	171.7	178.5	191.5
70°	208.9	200.6	201.4	197.5	162.5	157.2	160.9	160.2	161.8	166.2	179.2
72.5°	198.3	191.5	193.0	191.5	154.9	147.2	148.7	148.7	148.7	152.5	166.2
75°	184.6	179.2	183.9	187.7	145.6	135.0	136.5	136.5	134.2	136.5	153.3
77.5°	167.9	164.7	180.0	174.7	135.0	122.0	122.0	120.6	115.9	118.9	137.4
80°	149.5	147.2	166.2	146.5	122.8	106.0	104.6	100.7	96.1	98.4	116.7
82.5°	130.4	128.2	139.5	112.1	106.0	87.8	83.9	77.1	72.5	74.7	91.5
85°	106.8	106.8	107.5	84.7	80.8	67.2	62.5	53.4	48.1	49.5	65.5
87.5°	76.3	78.5	72.5	58.0	48.1	37.4	34.3	28.9	24.4	28.2	34.3
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-03-LED-E1-SLL-7027

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7
2.5°	4029.5	4113.5	4208.7	4330.8	4435.3	4607.0	4771.6	4870.9
5°	3012.8	3152.4	3326.3	3549.8	3758.0	4070.7	4381.2	4580.3
7.5°	2156.2	2305.8	2493.3	2772.6	3067.0	3465.9	3876.2	4114.1
10°	1784.0	1937.4	2095.2	2283.6	2524.6	2958.7	3443.7	3712.2
12.5°	1475.8	1639.9	1809.9	2008.3	2231.7	2619.3	3178.4	3487.2
15°	1129.6	1312.7	1513.3	1764.2	2044.2	2491.9	3112.7	3448.4
17.5°	774.2	978.7	1225.0	1534.7	1877.1	2450.7	3230.1	3616.8
20°	533.1	682.0	945.0	1308.1	1720.0	2445.4	3456.0	3940.3
22.5°	446.2	512.6	704.8	1099.9	1601.8	2510.9	3806.1	4394.1
25°	412.6	452.2	562.9	919.1	1515.6	2661.9	4288.1	4981.5
27.5°	392.7	428.6	511.0	800.8	1447.7	2837.3	4757.2	5550.4
30°	400.5	437.0	496.6	740.7	1355.5	2983.8	5173.7	5994.4
32.5°	360.8	376.7	425.5	687.3	1289.0	3106.6	5538.2	6361.9
35°	307.4	335.5	379.9	662.1	1290.5	3189.1	5935.6	6831.9
37.5°	292.8	321.1	353.2	652.9	1308.1	3276.7	6391.7	7382.5
40°	283.8	309.6	337.1	647.6	1324.9	3356.7	6838.6	7927.2
42.5°	277.7	301.3	335.5	629.3	1333.3	3428.6	7206.4	8390.1
45°	276.9	301.3	341.7	610.9	1346.2	3505.5	7514.5	8732.7
47.5°	277.7	311.3	330.2	588.7	1346.2	3634.5	7876.0	9038.4
50°	274.6	328.1	318.1	557.6	1314.9	3878.5	8371.8	9448.1
52.5°	273.1	325.6	294.5	509.5	1260.9	4266.1	9007.1	10012.5
55°	269.2	314.2	277.7	437.8	1197.5	4688.6	9687.5	10679.9
57.5°	265.4	278.5	268.5	375.2	1099.9	4986.0	10155.9	11200.8
60°	297.5	243.4	260.9	344.8	969.5	5067.7	10137.6	11408.2
62.5°	275.3	228.1	250.9	337.9	878.0	4838.8	9669.3	11296.1
65°	215.9	218.2	241.0	357.7	853.5	4232.5	8839.4	10778.3
67.5°	197.5	208.2	231.1	382.9	855.7	3388.9	7599.1	9650.1
70°	186.0	197.5	219.6	395.9	862.0	2526.3	6008.1	7860.0
72.5°	173.2	183.1	206.7	398.2	822.2	1835.1	4630.7	5779.2
75°	157.9	167.1	188.5	347.0	681.2	1273.0	3542.1	3954.0
77.5°	140.3	147.2	165.5	267.8	505.7	814.7	2659.0	2888.5
80°	119.7	123.5	138.8	196.0	346.2	509.5	2103.7	2317.9
82.5°	96.1	97.6	107.5	147.2	225.0	327.3	1408.8	1607.8
85°	67.9	67.9	74.0	106.8	153.3	207.5	765.0	848.2
87.5°	32.0	32.8	32.8	58.7	80.0	105.2	176.2	108.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)