

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: P269172

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269172  
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-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 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: 15220.8 lumens  
Efficiency: N/A  
Efficacy: 79.7 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): 191  
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

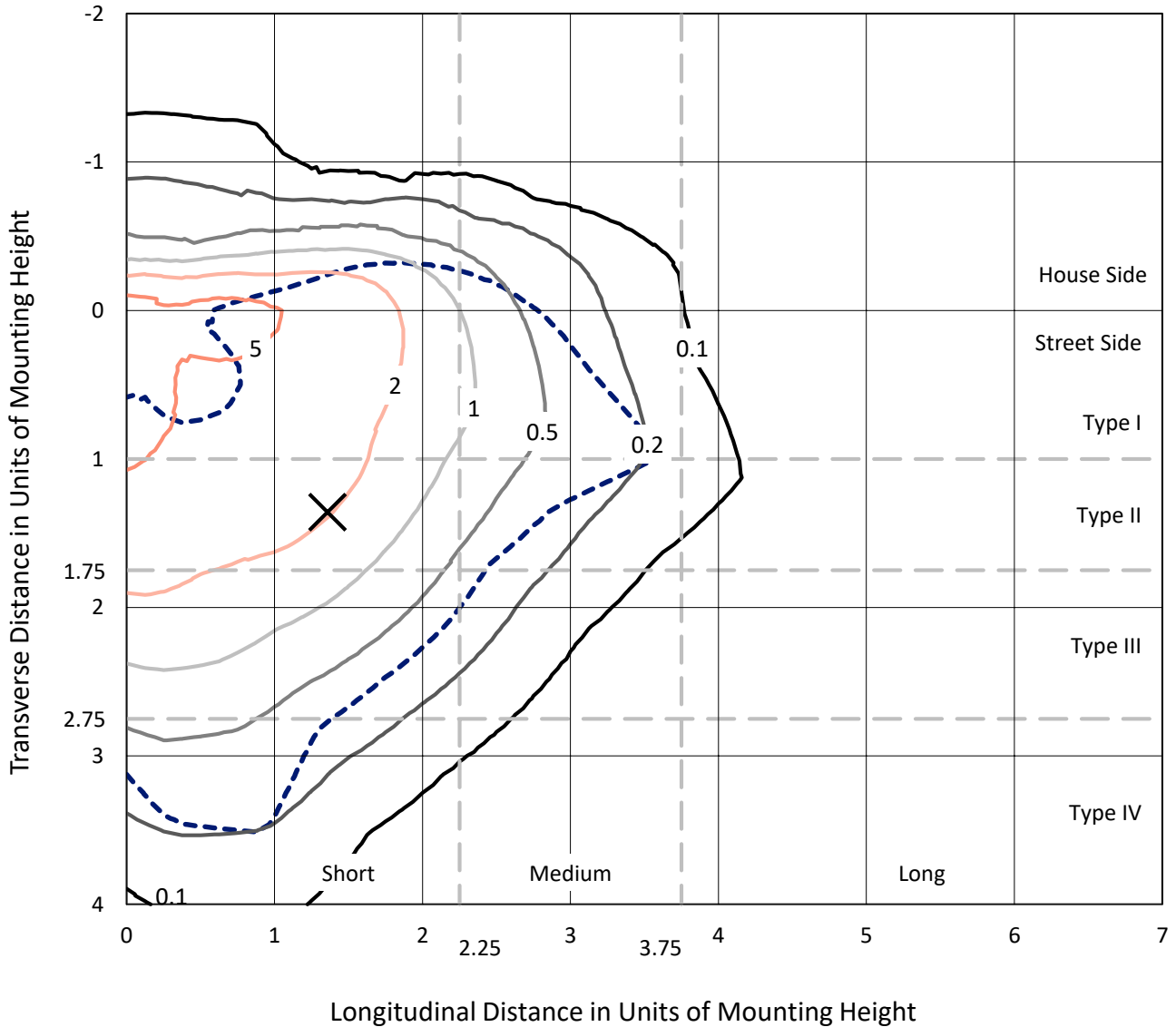


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

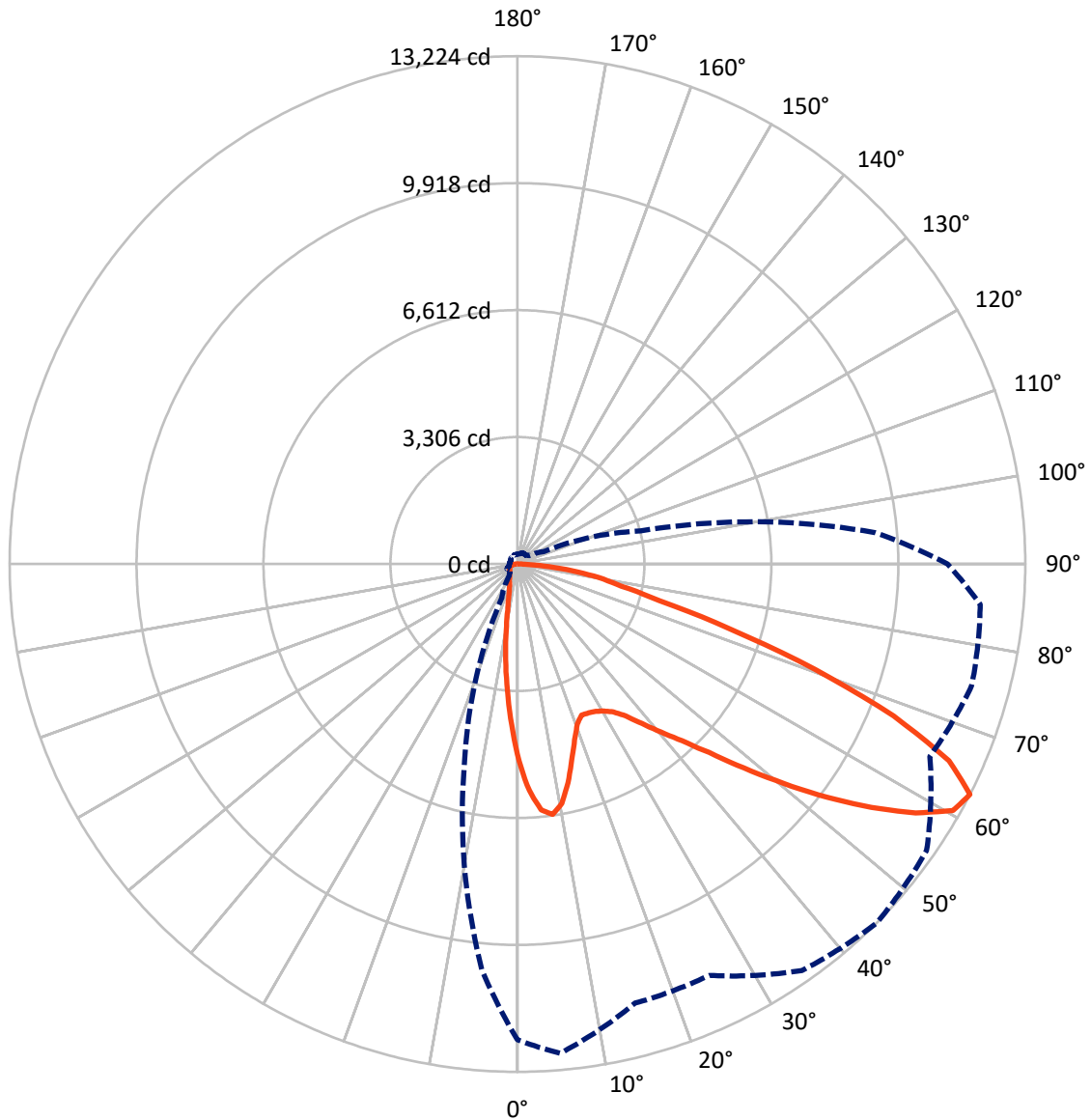


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	2518.8	0.0	2518.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	12702.0	0.0	12702.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	15220.8	0.0	15220.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.3	2.5
10°-20°	686.5	4.5
20°-30°	1000.8	6.6
30°-40°	1541.4	10.1
40°-50°	2268.6	14.9
50°-60°	3327.5	21.9
60°-70°	3719.7	24.4
70°-80°	1821.1	12.0
80°-90°	480.8	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°	15220.8	100.0
0°-180°	15220.8	100.0



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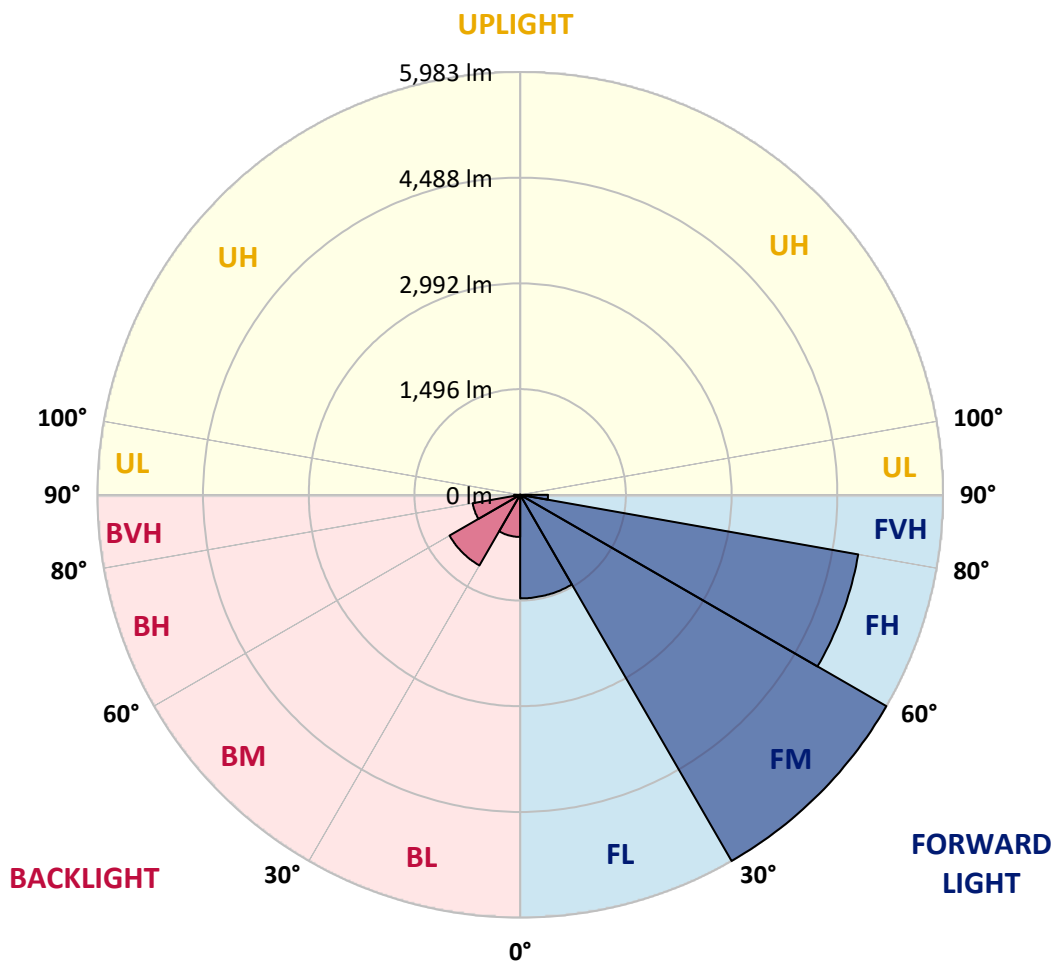
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1465.7	9.6			
FM (30°-60°)	5983.4	39.3			
FH (60°-80°)	4858.0	31.9			G2/5000
FVH (80°-90°)	394.9	2.6			G3/500
BL (0°-30°)	595.9	3.9	B2/1000		
BM (30°-60°)	1154.1	7.6	B2/2500		
BH (60°-80°)	682.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	86.0	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°	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3
2.5°	5343.2	5428.5	5595.1	5719.8	5871.2	5906.4	5954.9	5907.2	5822.6	5710.5	5673.8
5°	5024.4	5206.8	5611.0	5966.5	6282.8	6430.1	6471.1	6349.8	6104.6	5782.5	5585.9
7.5°	4513.3	4772.5	5319.9	5843.6	6309.6	6584.8	6578.2	6296.2	5845.2	5320.7	5005.1
10°	4072.2	4368.5	4996.1	5581.7	6076.1	6343.1	6240.2	5879.5	5341.5	4737.4	4395.2
12.5°	3825.4	4115.8	4752.6	5340.8	5754.1	5846.1	5767.5	5414.4	4907.4	4296.6	3997.0
15°	3782.8	4101.5	4655.5	5134.1	5365.8	5285.4	5191.8	5033.7	4675.5	4154.2	3842.2
17.5°	3967.6	4319.1	4766.8	4990.2	4950.7	4811.1	4784.4	4801.9	4715.7	4312.5	3952.6
20°	4322.5	4744.0	5031.9	4922.4	4635.3	4442.9	4449.7	4718.2	4973.3	4713.1	4302.3
22.5°	4820.2	5301.3	5414.4	4958.4	4502.3	4273.9	4329.1	4764.3	5384.3	5298.9	4774.2
25°	5464.5	5903.0	5821.8	5088.9	4515.7	4294.8	4339.2	4923.3	5869.5	5884.5	5358.3
27.5°	6088.7	6495.4	6164.0	5262.0	4570.9	4344.3	4402.8	5173.3	6333.1	6520.4	6026.0
30°	6575.8	6858.5	6299.5	5420.3	4679.7	4440.4	4513.3	5411.0	6544.0	6949.6	6539.8
32.5°	6979.0	7182.3	6515.4	5616.1	4879.8	4591.9	4719.9	5699.7	6847.6	7357.9	7042.6
35°	7494.4	7552.1	6784.0	5834.4	5188.4	4855.3	5014.3	5982.4	7137.2	7770.5	7537.9
37.5°	8098.5	8024.0	7037.5	6133.1	5587.5	5267.9	5399.4	6292.8	7375.5	8238.3	8044.1
40°	8696.0	8516.9	7355.5	6596.7	6169.9	5754.1	5909.7	6624.2	7598.1	8706.8	8538.6
42.5°	9203.9	8938.6	7669.3	7106.1	6712.0	6290.4	6476.2	6958.1	7810.7	9106.7	8967.8
45°	9579.4	9249.8	7968.0	7595.7	7459.3	7003.2	7091.1	7340.4	8040.8	9440.6	9321.0
47.5°	9915.0	9562.7	8306.0	8089.2	8112.8	7930.3	7788.9	7785.6	8311.8	9713.4	9654.8
50°	10364.4	9997.0	8669.2	8597.9	9093.4	8972.0	8659.9	8305.2	8654.9	10022.8	10016.2
52.5°	10983.4	10684.8	9112.5	9146.1	10008.7	10088.1	9701.6	8929.3	9192.0	10591.0	10551.0
55°	11715.5	11541.6	9716.6	9776.2	11131.5	11188.5	10804.5	9710.0	9982.0	11413.5	11302.2
57.5°	12287.0	12250.2	10379.3	10532.4	11969.9	12226.0	11872.9	10613.7	10872.1	12106.4	11826.8
60°	12514.6	12693.0	11084.7	11295.6	12745.6	13029.2	12719.6	11407.7	11661.2	12393.3	11791.0
62.5°	12391.7	12789.9	11836.1	11818.6	12918.7	13224.2	13006.6	11849.5	12246.1	12097.1	11194.3
65°	11823.5	12441.0	12272.0	11683.7	12326.5	12351.4	12281.2	11652.0	12384.2	11160.8	10041.3
67.5°	10586.0	11474.6	11698.0	10529.2	10728.3	10565.1	10447.2	10571.0	11664.5	9757.7	8439.0
70°	8622.3	9959.4	10066.4	8421.5	8331.2	8221.5	7986.4	8666.6	10244.7	7997.3	6696.1
72.5°	6339.8	7745.5	8074.2	6176.6	5758.2	5780.9	5595.1	6531.3	8329.4	5940.6	4999.3
75°	4337.5	5608.5	6317.2	4309.9	3807.8	3817.1	3793.6	4627.9	6634.3	4132.6	3740.9
77.5°	3168.6	4007.0	4764.3	2897.6	2813.0	2761.1	2748.5	3238.1	5086.4	3000.3	2905.1
80°	2542.7	2960.3	3200.4	2008.2	2159.5	2155.4	2086.0	2226.4	3321.8	2194.6	2172.9
82.5°	1763.8	2275.0	2593.0	1573.8	1457.5	1433.2	1450.0	1658.4	2347.8	1500.2	1426.6
85°	930.5	1511.0	2567.8	1394.8	865.2	690.3	858.5	1358.0	2034.0	794.9	696.1
87.5°	118.8	436.8	1700.2	556.4	341.4	184.1	407.6	764.7	1306.0	162.4	141.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3
2.5°	5579.2	5468.0	5322.3	5187.6	5047.8	4909.0	4727.4	4613.6	4535.0	4519.9	4486.4
5°	5443.5	5073.7	4794.3	4552.5	4333.3	4023.8	3852.2	3710.0	3633.9	3626.3	3608.0
7.5°	4818.6	4308.2	3930.9	3588.6	3278.3	3028.0	2752.0	2623.1	2570.4	2582.9	2595.5
10°	4168.4	3597.8	3164.4	2814.7	2541.0	2330.3	2108.5	1958.8	1855.0	1834.1	1829.8
12.5°	3693.2	3067.4	2646.4	2399.7	2188.0	1989.7	1754.6	1578.1	1443.3	1397.4	1366.3
15°	3492.4	2808.0	2367.0	2101.0	1867.5	1615.7	1397.4	1212.4	1088.6	1048.4	1025.9
17.5°	3535.1	2736.1	2174.5	1834.1	1535.4	1272.5	997.4	839.2	764.7	745.6	745.6
20°	3759.3	2722.7	2015.6	1588.1	1215.8	911.2	685.2	594.9	570.7	568.1	574.8
22.5°	4074.0	2769.6	1896.9	1374.8	944.7	665.1	533.9	500.4	489.4	492.0	499.5
25°	4542.5	2927.7	1810.7	1184.8	741.3	544.7	476.1	456.0	450.9	457.6	466.8
27.5°	5098.2	3085.8	1757.1	1041.8	625.8	497.8	452.7	431.7	435.0	443.5	451.8
30°	5585.9	3215.5	1672.6	939.6	589.8	500.4	452.7	424.2	420.9	422.6	425.1
32.5°	6023.5	3303.3	1573.8	842.6	508.7	444.3	422.6	418.3	399.9	393.3	394.0
35°	6400.9	3303.3	1514.5	785.7	456.0	394.0	359.0	338.0	328.8	329.7	338.9
37.5°	6764.7	3237.2	1485.2	753.9	427.6	374.9	344.0	325.5	312.9	310.5	312.2
40°	7086.1	3141.1	1451.8	740.6	405.9	363.2	333.8	318.8	305.5	301.2	302.1
42.5°	7343.9	3063.2	1414.9	723.0	392.4	354.8	327.2	313.8	298.6	294.6	293.7
45°	7622.4	3037.3	1366.3	687.8	399.0	355.5	325.5	311.3	296.3	291.2	289.6
47.5°	7989.7	3118.5	1316.1	645.9	413.3	359.9	328.1	311.3	295.4	291.2	289.6
50°	8452.4	3309.1	1252.5	584.8	399.0	371.4	327.2	308.7	295.4	291.2	287.8
52.5°	9046.6	3566.9	1168.9	514.5	390.8	399.9	325.5	303.7	291.2	285.3	279.5
55°	9768.6	3777.7	1069.3	456.9	371.4	392.4	323.0	297.9	284.5	276.0	271.1
57.5°	10297.5	3853.9	941.3	419.1	344.7	379.9	319.6	290.3	276.0	269.4	262.8
60°	10192.8	3706.6	833.4	395.8	328.8	343.1	317.1	283.7	268.7	263.6	257.8
62.5°	9355.3	3321.8	763.9	384.8	318.8	312.9	319.6	276.9	261.9	256.8	255.2
65°	8099.4	2753.7	736.3	382.4	310.5	295.4	297.0	269.4	254.4	250.2	248.6
67.5°	6681.1	2222.2	712.0	390.8	299.6	282.7	274.4	259.4	246.9	242.6	239.3
70°	5268.7	1848.4	701.1	385.7	286.2	270.3	261.0	248.6	237.6	233.4	231.0
72.5°	4243.0	1561.3	695.3	380.7	268.7	253.5	245.1	234.3	222.6	221.0	218.4
75°	3590.3	1227.4	636.7	364.8	248.6	233.4	227.6	217.5	205.8	205.8	204.2
77.5°	2769.6	887.7	529.6	323.0	227.6	210.8	205.8	198.3	185.0	187.4	186.6
80°	2045.8	579.0	414.2	267.8	201.7	185.8	183.3	175.7	161.4	164.7	164.7
82.5°	1401.4	379.9	297.9	219.2	172.4	157.4	157.4	149.7	133.8	135.6	140.6
85°	703.6	261.0	222.6	169.9	133.8	126.3	126.3	120.6	104.7	105.5	112.1
87.5°	214.2	157.4	147.2	121.4	96.2	94.5	90.4	86.1	76.1	75.3	79.5
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°	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3
2.5°	4435.4	4387.7	4330.0	4202.8	4160.1	4157.6	4196.2	4155.9	4233.0	4200.3	4236.2
5°	3577.0	3530.1	3465.7	3303.3	3204.7	3137.7	3105.9	3012.1	3079.8	3030.5	3071.6
7.5°	2630.5	2641.5	2598.8	2503.4	2288.4	2180.5	2116.9	2060.0	2109.3	2104.3	2183.1
10°	1849.2	1878.4	1848.4	1752.1	1578.1	1518.7	1530.4	1552.9	1617.4	1650.8	1772.1
12.5°	1331.2	1329.5	1310.3	1224.1	1109.4	1116.1	1163.8	1203.2	1262.6	1297.7	1421.6
15°	994.1	979.0	970.6	900.3	835.1	849.3	872.8	876.8	914.6	935.5	1035.8
17.5°	751.3	758.9	768.1	717.8	668.5	659.4	640.9	618.4	629.3	633.3	683.6
20°	596.6	626.7	649.3	614.1	564.0	537.1	513.7	498.6	498.6	497.8	512.0
22.5°	521.2	543.0	567.3	543.0	497.8	474.5	461.0	449.3	447.6	447.6	461.0
25°	480.2	496.1	519.6	502.8	469.5	451.8	439.4	424.2	418.3	416.6	425.8
27.5°	460.2	466.8	478.5	463.5	435.0	426.8	423.5	409.9	402.5	398.3	407.6
30°	425.8	424.2	425.1	409.9	387.3	386.6	392.4	395.0	392.4	391.7	405.9
32.5°	394.0	390.8	390.0	376.5	355.5	350.6	355.5	360.6	366.5	374.9	391.7
35°	353.9	362.2	367.2	355.5	330.4	315.5	309.6	300.4	295.4	295.4	314.5
37.5°	322.1	341.4	348.9	338.0	310.5	289.6	279.5	277.8	278.7	282.0	300.4
40°	311.3	325.5	332.2	321.4	293.7	274.4	268.7	266.8	268.7	273.7	291.9
42.5°	304.5	314.5	313.8	300.4	277.8	264.5	261.0	259.4	261.0	266.1	286.2
45°	298.6	305.5	298.6	282.7	261.9	255.2	256.0	255.2	256.8	261.9	281.1
47.5°	293.7	296.3	287.8	271.9	250.2	248.6	251.9	254.4	256.0	260.1	280.4
50°	286.2	286.2	278.7	261.9	240.1	240.9	245.1	250.9	251.9	256.8	272.7
52.5°	276.9	276.0	271.1	255.2	231.8	234.3	234.3	240.9	242.6	248.6	265.2
55°	269.4	267.8	265.2	250.2	224.2	228.3	226.0	228.3	232.7	238.5	256.8
57.5°	262.8	259.4	259.4	246.0	218.4	220.1	214.2	217.5	222.6	227.6	246.9
60°	256.0	252.8	254.4	240.1	209.1	207.5	205.1	211.7	213.3	219.2	238.5
62.5°	248.6	246.0	246.9	233.4	202.5	198.3	198.3	204.2	205.1	213.3	231.8
65°	242.6	239.3	238.5	226.7	194.9	189.9	192.4	194.9	196.5	205.1	222.6
67.5°	236.9	230.1	230.1	221.0	186.6	181.5	186.6	185.8	188.3	195.8	210.1
70°	229.2	220.1	221.0	216.8	178.3	172.4	176.5	175.7	177.3	182.4	196.5
72.5°	217.5	210.1	211.7	210.1	169.9	161.4	163.1	163.1	163.1	167.4	182.4
75°	202.5	196.5	201.7	205.8	159.8	148.1	149.7	149.7	147.2	149.7	168.3
77.5°	184.1	180.6	197.4	191.6	148.1	133.8	133.8	132.2	127.2	130.6	150.6
80°	164.0	161.4	182.4	160.6	134.7	116.3	114.7	110.4	105.5	107.9	128.0
82.5°	143.1	140.6	153.2	123.0	116.3	96.2	92.0	84.5	79.5	81.9	100.4
85°	117.0	117.0	117.9	92.9	88.8	73.7	68.6	58.6	52.7	54.3	72.0
87.5°	83.6	86.1	79.5	63.6	52.7	41.1	37.6	31.8	26.8	30.9	37.6
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-7027-1200

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3
2.5°	4420.3	4512.4	4617.0	4750.9	4865.5	5053.8	5234.5	5343.2
5°	3305.0	3458.1	3648.8	3894.1	4122.4	4465.6	4806.0	5024.4
7.5°	2365.3	2529.4	2735.2	3041.4	3364.4	3801.9	4252.1	4513.3
10°	1957.0	2125.2	2298.5	2505.2	2769.6	3245.5	3777.7	4072.2
12.5°	1619.0	1798.9	1985.6	2203.1	2448.2	2873.3	3486.5	3825.4
15°	1239.1	1440.0	1660.1	1935.3	2242.3	2733.5	3414.5	3782.8
17.5°	849.3	1073.6	1343.8	1683.5	2059.2	2688.4	3543.5	3967.6
20°	584.8	748.0	1036.6	1435.0	1886.8	2682.5	3791.1	4322.5
22.5°	489.4	562.2	773.1	1206.6	1757.1	2754.5	4175.2	4820.2
25°	452.7	496.1	617.5	1008.3	1662.6	2920.1	4704.0	5464.5
27.5°	430.8	470.3	560.6	878.5	1588.1	3112.5	5218.6	6088.7
30°	439.4	479.4	544.7	812.4	1486.9	3273.2	5675.4	6575.8
32.5°	395.8	413.3	466.8	753.9	1414.0	3407.9	6075.3	6979.0
35°	337.3	368.1	416.6	726.3	1415.6	3498.3	6511.3	7494.4
37.5°	321.4	352.2	387.3	716.2	1435.0	3594.5	7011.6	8098.5
40°	311.3	339.6	369.8	710.4	1453.4	3682.3	7501.9	8696.0
42.5°	304.5	330.4	368.1	690.3	1462.6	3761.1	7905.3	9203.9
45°	303.7	330.4	374.9	670.1	1476.9	3845.6	8243.2	9579.4
47.5°	304.5	341.4	362.2	645.9	1476.9	3986.9	8639.9	9915.0
50°	301.2	359.9	348.9	611.7	1442.5	4254.6	9183.7	10364.4
52.5°	299.6	357.3	323.0	558.9	1383.1	4679.7	9880.6	10983.4
55°	295.4	344.7	304.5	480.2	1313.6	5143.2	10626.9	11715.5
57.5°	291.2	305.5	294.6	411.7	1206.6	5469.6	11140.8	12287.0
60°	326.4	266.8	286.2	378.1	1063.5	5559.2	11120.7	12514.6
62.5°	302.1	250.2	275.3	370.7	963.1	5308.1	10606.9	12391.7
65°	236.9	239.3	264.5	392.4	936.3	4642.9	9696.7	11823.5
67.5°	216.8	228.3	253.5	420.0	938.8	3717.5	8336.1	10586.0
70°	204.2	216.8	240.9	434.2	945.5	2771.2	6590.8	8622.3
72.5°	189.9	200.9	226.7	436.8	902.0	2013.1	5079.6	6339.8
75°	173.3	183.3	206.7	380.7	747.2	1396.4	3885.7	4337.5
77.5°	154.0	161.4	181.5	293.7	554.8	893.6	2916.7	3168.6
80°	131.3	135.6	152.4	215.1	379.9	558.9	2307.7	2542.7
82.5°	105.5	107.1	117.9	161.4	246.9	359.0	1545.4	1763.8
85°	74.5	74.5	81.1	117.0	168.3	227.6	839.2	930.5
87.5°	35.2	36.0	36.0	64.4	87.9	115.4	193.2	118.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)