

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: P452204

Luminaire Tested: **GALN-SA3A-827-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-827-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 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: 8651 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

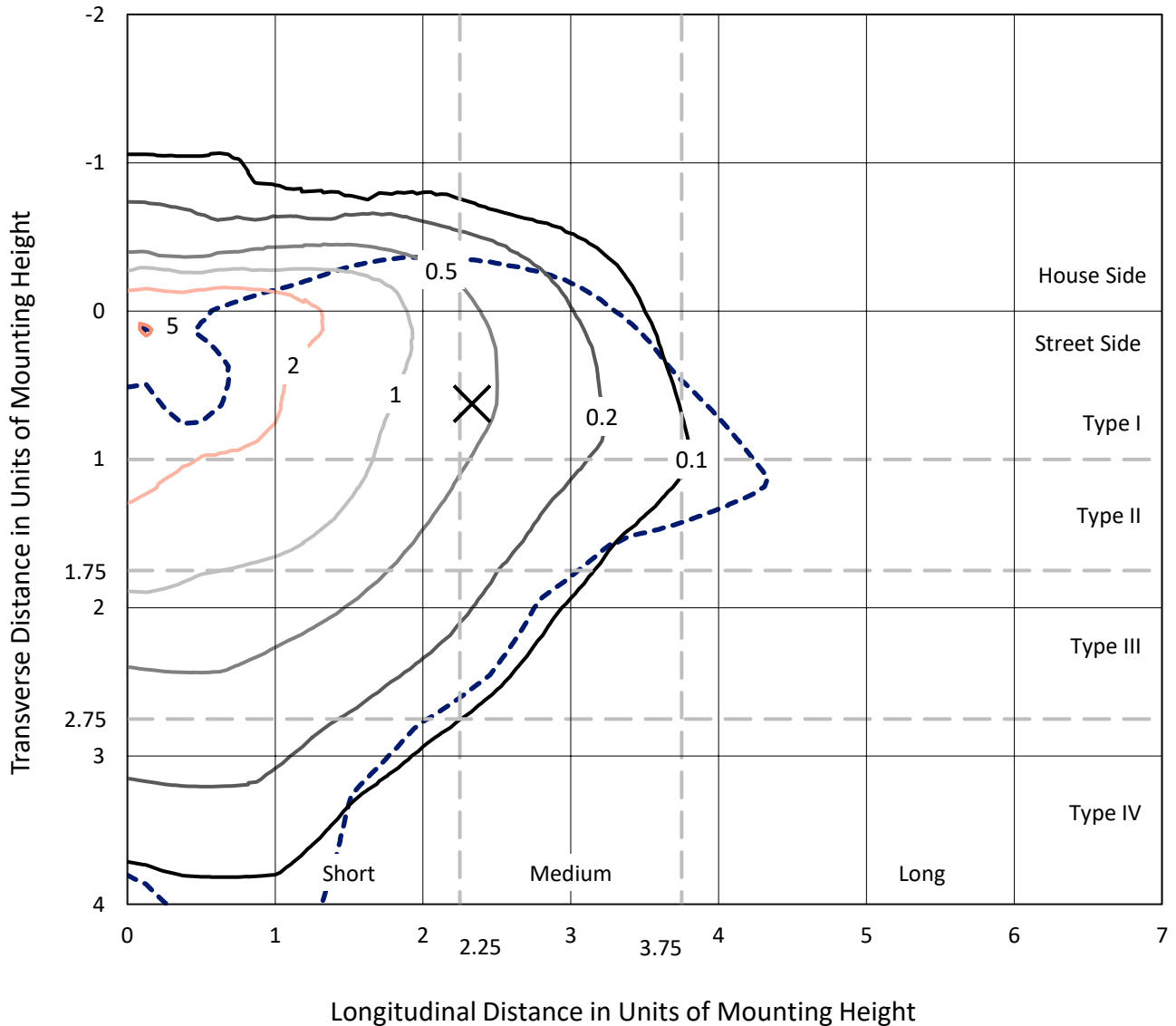
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

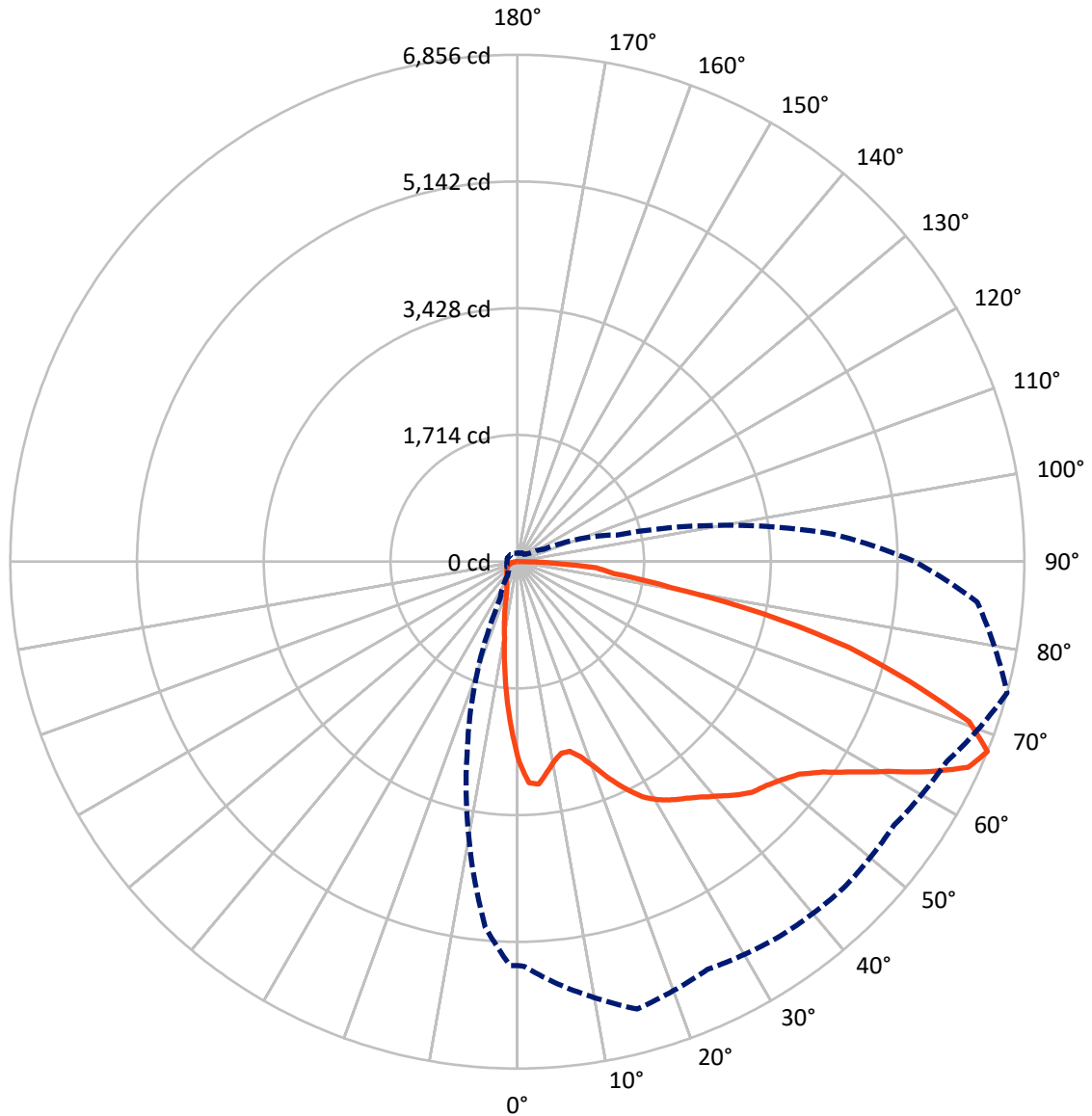
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1462.2	0.0	1462.2
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	7188.8	0.0	7188.8
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	8651.0	0.0	8651.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.0	2.4
10°-20°	427.5	4.9
20°-30°	615.2	7.1
30°-40°	886.1	10.2
40°-50°	1244.7	14.4
50°-60°	1735.9	20.1
60°-70°	2063.9	23.9
70°-80°	1215.5	14.1
80°-90°	257.0	3.0
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°	8651.0	100.0
0°-180°	8651.0	100.0

**Coefficient of Utilization**



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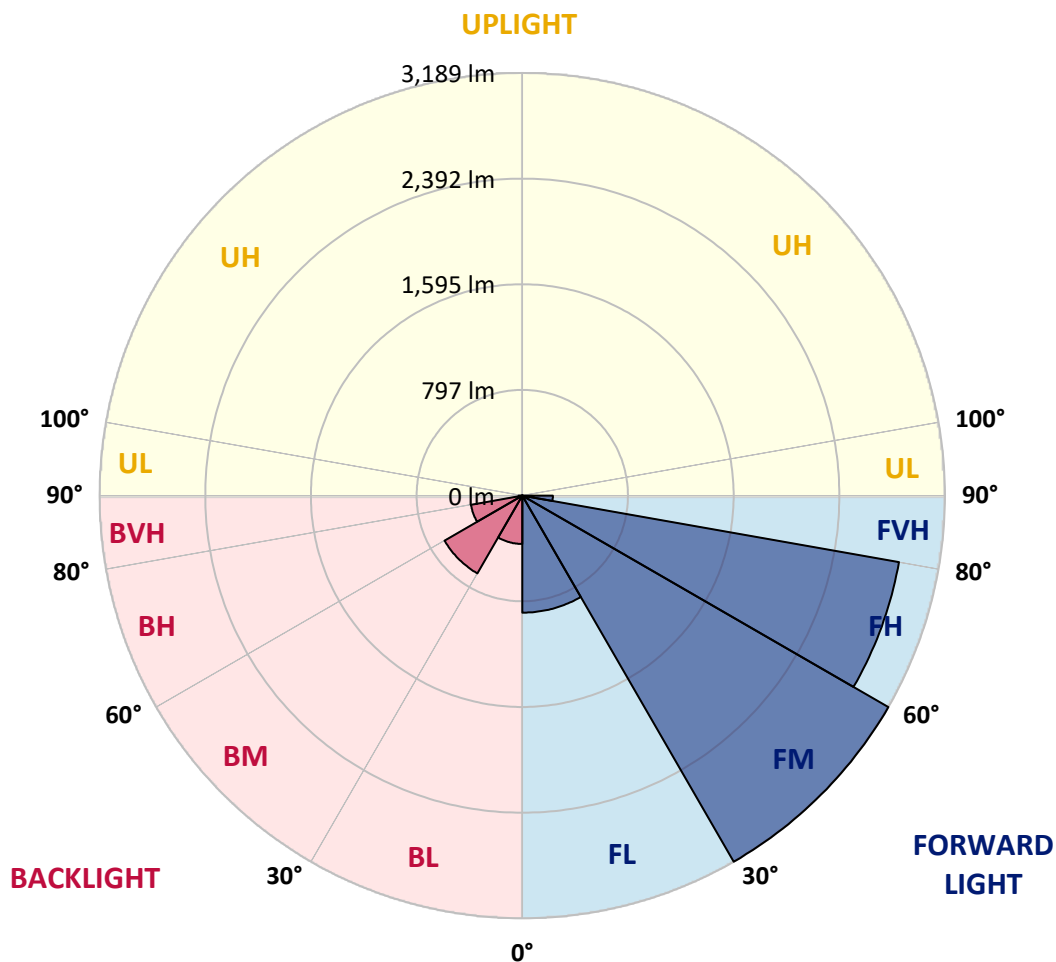
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	883.0	10.2			
FM	(30°-60°)	3189.3	36.9			
FH	(60°-80°)	2886.0	33.4			G2/5000
FVH	(80°-90°)	230.5	2.7			G3/500
BL	(0°-30°)	364.7	4.2	B1/500		
BM	(30°-60°)	677.4	7.8	B1/1000		
BH	(60°-80°)	393.5	4.5	B1/500		G1/500
BVH	(80°-90°)	26.6	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8
2.5°	2914.1	2918.0	2943.0	3015.7	3065.6	3083.9	3096.7	3072.8	3049.5	2992.9	2907.5
5°	2905.3	2928.0	2992.9	3156.0	3284.7	3340.2	3356.8	3285.3	3167.1	3021.8	2847.0
7.5°	2735.5	2766.0	2865.9	3139.4	3366.3	3496.1	3478.9	3349.6	3136.6	2877.5	2633.4
10°	2534.1	2568.0	2688.4	3019.0	3311.3	3490.0	3490.0	3332.4	3049.5	2741.6	2460.3
12.5°	2374.4	2409.9	2547.4	2895.3	3197.1	3366.3	3394.6	3259.2	2986.8	2655.6	2346.6
15°	2321.7	2356.1	2504.2	2820.4	3076.1	3179.3	3188.7	3144.4	2956.3	2661.7	2341.6
17.5°	2387.1	2431.5	2581.3	2842.6	2965.2	2971.3	2978.5	3013.4	2959.6	2773.2	2442.6
20°	2576.3	2624.0	2780.4	2914.1	2868.1	2804.9	2808.7	2898.6	2999.0	2957.4	2683.9
22.5°	2849.2	2890.8	3051.2	3040.1	2827.0	2696.7	2669.5	2794.9	3057.3	3187.1	2940.8
25°	3143.8	3192.6	3376.8	3227.0	2838.7	2632.3	2615.1	2733.8	3117.7	3401.8	3237.6
27.5°	3481.1	3528.8	3674.2	3415.6	2899.7	2627.3	2606.8	2728.3	3172.1	3600.4	3521.0
30°	3731.9	3775.7	3874.4	3574.3	2974.6	2660.6	2635.1	2772.1	3218.7	3736.3	3797.3
32.5°	3928.8	3974.3	4028.1	3673.0	3073.4	2721.1	2673.9	2852.0	3279.7	3840.0	4002.0
35°	4134.1	4187.9	4184.0	3760.7	3165.4	2791.0	2744.9	2967.4	3375.7	3930.5	4261.6
37.5°	4394.2	4415.9	4388.1	3839.5	3275.8	2916.9	2891.4	3138.8	3512.2	4039.7	4565.1
40°	4658.3	4701.6	4559.0	3934.9	3410.1	3153.8	3151.0	3392.3	3674.2	4167.9	4859.1
42.5°	4884.6	4921.3	4718.8	4018.1	3572.6	3442.8	3463.9	3732.4	3886.6	4316.6	5095.4
45°	5054.9	5087.7	4866.3	4098.5	3786.8	3776.8	3901.1	4096.9	4154.6	4450.3	5234.1
47.5°	5199.7	5231.4	4969.0	4220.6	4051.4	4175.7	4392.0	4476.9	4383.7	4526.8	5389.5
50°	5321.8	5331.2	5039.4	4365.9	4379.8	4664.4	4874.1	4929.0	4610.0	4636.7	5524.3
52.5°	5448.8	5436.6	5160.9	4549.0	4734.9	5128.2	5280.7	5337.9	4826.9	4772.0	5720.7
55°	5733.4	5745.1	5433.3	4779.8	5093.8	5583.6	5784.5	5729.5	5067.2	5021.1	5970.3
57.5°	6077.4	6067.4	5816.6	5140.9	5459.4	6007.5	6157.3	6069.0	5387.8	5363.4	6223.3
60°	6211.1	6224.4	6137.3	5529.3	5820.0	6378.6	6531.7	6394.7	5772.2	5761.2	6414.1
62.5°	6076.8	6151.7	6210.5	5874.9	6127.3	6651.5	6803.5	6647.1	6173.3	6253.8	6547.8
65°	5809.4	5825.5	6025.8	6167.8	6275.4	6696.5	6775.8	6692.6	6508.4	6702.6	6541.7
67.5°	5462.1	5476.0	5710.7	6263.8	6084.6	6186.1	6241.6	6217.2	6404.7	6856.2	6240.5
70°	5131.5	5120.4	5368.4	6019.1	5296.8	5142.6	5188.6	5112.1	5526.5	6480.7	5649.6
72.5°	4488.0	4527.9	4794.2	5339.0	4194.0	3943.2	4043.6	3845.6	4250.5	5550.3	4585.6
75°	3515.5	3524.9	3969.3	4480.8	3163.8	2768.2	2904.2	2821.5	3255.9	4630.0	3166.6
77.5°	2434.3	2413.2	2890.8	3422.3	2256.2	2026.5	2028.7	1989.4	2273.4	3409.0	2151.3
80°	1546.1	1513.9	1809.6	2114.2	1550.5	1658.7	1604.4	1602.7	1480.1	2103.1	1300.9
82.5°	835.5	871.0	1143.4	1325.3	1112.3	1282.0	1175.0	1140.6	1015.8	1316.4	832.1
85°	380.6	413.8	609.7	901.5	844.9	854.3	570.8	673.5	840.5	1069.0	444.4
87.5°	37.2	47.7	125.9	425.5	288.5	227.5	84.9	163.7	211.4	380.0	35.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8
2.5°	2872.5	2843.7	2745.5	2664.5	2578.5	2513.1	2427.6	2370.5	2331.1	2271.7	2264.5
5°	2740.5	2670.0	2499.2	2325.0	2174.6	2061.5	1946.6	1841.2	1779.1	1759.7	1734.7
7.5°	2518.0	2399.3	2179.6	1979.9	1807.4	1638.8	1508.9	1416.8	1355.3	1319.2	1275.9
10°	2335.0	2197.4	1930.0	1685.4	1543.3	1438.5	1324.2	1225.5	1149.5	1084.6	1049.0
12.5°	2211.8	2056.5	1755.8	1557.2	1447.4	1335.9	1202.2	1091.2	979.1	905.4	873.7
15°	2174.6	2010.4	1702.0	1493.4	1335.9	1190.0	1040.2	895.4	784.4	714.5	691.2
17.5°	2265.6	2067.0	1701.4	1408.5	1204.9	1030.7	838.8	702.9	589.2	537.0	520.4
20°	2435.4	2175.8	1706.4	1324.8	1062.9	817.7	610.2	498.7	444.4	422.2	413.8
22.5°	2672.3	2341.6	1721.4	1242.1	907.6	628.0	457.1	400.5	381.1	377.2	375.6
25°	2964.1	2546.9	1771.9	1167.8	776.7	479.3	382.2	356.7	345.6	341.7	341.2
27.5°	3232.6	2812.1	1832.9	1104.0	650.2	413.3	345.6	324.0	312.9	312.3	313.4
30°	3475.0	3034.0	1884.0	1032.4	554.2	367.2	321.8	300.1	289.6	289.0	292.4
32.5°	3684.7	3216.5	1921.7	961.9	500.9	339.0	300.1	276.8	267.9	266.3	267.9
35°	3908.8	3398.4	1904.5	907.0	470.4	315.7	284.0	261.3	250.8	245.8	245.8
37.5°	4164.6	3586.0	1875.1	861.5	456.6	296.2	270.2	248.0	237.4	232.4	231.9
40°	4443.6	3773.5	1834.6	821.0	442.7	284.6	260.7	237.4	224.7	219.7	218.6
42.5°	4689.9	3933.8	1801.3	794.4	420.0	286.8	252.4	229.7	213.6	206.9	206.4
45°	4904.1	4095.2	1795.2	778.9	401.1	283.5	250.2	223.6	204.7	197.5	196.4
47.5°	5071.6	4263.3	1830.1	770.0	380.6	265.7	264.6	219.7	196.9	189.2	188.1
50°	5275.7	4501.9	1910.0	751.7	361.7	249.1	279.6	219.1	190.8	180.9	178.1
52.5°	5547.6	4812.5	2018.2	719.0	334.5	233.6	266.8	219.1	183.6	173.6	170.3
55°	5958.6	5208.6	2124.2	672.9	296.2	213.0	240.8	212.5	173.1	164.2	162.0
57.5°	6231.0	5498.2	2191.8	609.1	248.5	198.0	207.5	201.9	162.5	153.1	153.1
60°	6244.9	5575.9	2159.7	528.7	218.6	184.2	180.3	203.6	153.1	143.1	142.0
62.5°	6085.1	5385.6	1992.1	456.6	202.5	169.2	163.1	178.6	143.7	133.7	132.0
65°	5835.5	4900.2	1701.4	422.2	193.6	155.9	147.0	146.5	133.7	124.3	122.0
67.5°	5376.7	4282.2	1398.0	402.2	189.2	140.9	132.6	129.8	122.0	114.3	113.2
70°	4700.5	3586.5	1121.2	393.9	187.0	125.4	118.7	115.4	108.7	102.6	102.1
72.5°	3657.0	2909.1	925.3	388.3	185.8	111.0	103.7	99.3	95.4	89.9	89.9
75°	2626.8	2140.3	706.2	350.1	172.0	95.4	87.7	84.9	79.3	74.9	76.0
77.5°	1656.0	1441.3	464.9	257.4	133.1	76.6	69.9	68.2	63.8	57.7	61.6
80°	1118.4	1013.5	271.3	162.0	83.8	56.0	53.8	53.3	48.3	41.6	42.2
82.5°	761.1	746.7	140.9	92.1	48.3	32.7	31.6	32.7	27.2	22.2	22.2
85°	297.3	406.1	66.6	36.1	15.5	5.0	7.2	7.8	4.4	2.2	2.8
87.5°	5.5	41.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8
2.5°	2253.4	2248.4	2256.8	2221.2	2228.5	2241.8	2248.4	2252.3	2307.2	2294.5	2329.4
5°	1758.0	1753.0	1785.2	1789.6	1806.3	1803.0	1819.0	1822.9	1842.9	1850.1	1898.9
7.5°	1278.7	1300.4	1337.0	1355.8	1384.1	1393.0	1384.7	1405.2	1363.6	1393.6	1402.4
10°	1027.4	1001.3	985.8	1029.1	1034.6	1075.7	1059.0	1045.7	1070.1	1071.2	1094.5
12.5°	855.4	799.4	762.2	774.4	787.8	805.5	808.3	834.9	852.7	869.3	883.2
15°	670.7	651.3	617.4	600.8	619.7	626.9	644.1	666.3	685.1	690.1	709.0
17.5°	514.8	518.1	512.6	502.6	514.3	519.8	520.9	521.5	526.5	523.1	550.9
20°	414.4	426.1	439.9	442.1	446.0	448.8	443.8	424.9	425.5	437.1	446.0
22.5°	375.0	377.2	392.8	397.8	410.0	405.0	390.5	381.7	380.6	383.3	387.8
25°	343.9	347.3	358.4	366.1	375.6	366.7	356.2	347.8	346.7	349.5	353.9
27.5°	316.2	321.2	331.2	339.0	347.8	339.5	329.5	322.3	321.8	321.2	324.0
30°	294.0	299.6	306.8	315.7	321.8	314.5	305.1	301.2	300.7	299.6	300.7
32.5°	271.8	280.7	287.9	292.4	298.5	292.9	285.7	283.5	279.6	276.3	274.6
35°	246.9	256.3	267.4	272.9	279.0	273.5	268.5	259.1	252.4	251.9	253.0
37.5°	232.4	236.3	245.2	254.6	260.7	258.0	248.5	239.1	237.4	237.4	238.5
40°	219.7	221.3	225.2	237.4	248.5	240.2	228.6	225.8	225.8	225.2	225.8
42.5°	206.9	208.6	208.6	218.0	235.8	222.5	213.6	213.6	213.6	214.1	215.8
45°	195.3	195.8	195.3	201.9	218.6	207.5	201.4	203.0	204.2	205.3	206.4
47.5°	185.3	185.8	185.3	190.8	199.2	194.7	191.4	193.6	195.8	197.5	198.6
50°	176.4	175.9	177.0	180.3	184.2	185.3	183.1	186.4	187.5	189.7	192.5
52.5°	168.6	168.1	169.2	170.9	176.4	176.4	176.4	179.2	181.4	183.6	187.5
55°	159.8	160.3	162.0	164.2	171.4	170.3	170.9	173.1	175.3	178.6	180.9
57.5°	151.4	152.6	154.8	158.1	165.3	164.8	165.3	166.4	169.2	170.9	173.1
60°	142.0	144.2	147.0	149.2	156.4	155.9	158.7	160.9	162.5	162.5	163.7
62.5°	132.6	135.9	138.7	140.4	148.1	148.7	152.6	154.2	155.3	154.2	155.9
65°	123.2	128.1	129.3	131.5	139.2	139.8	144.2	148.1	147.0	145.9	148.7
67.5°	113.7	119.8	119.3	122.0	129.8	130.9	134.8	141.5	139.2	138.1	140.4
70°	103.2	107.6	108.2	109.8	120.4	118.7	124.8	130.9	129.3	129.8	129.8
72.5°	91.5	95.4	95.4	98.7	109.8	107.1	112.1	118.7	118.7	118.2	118.2
75°	77.7	79.9	82.1	87.1	98.7	95.4	98.7	104.8	106.0	104.8	104.8
77.5°	62.7	66.0	67.1	73.8	82.1	81.5	84.9	87.7	89.9	88.8	88.8
80°	44.4	47.7	52.1	59.4	64.4	66.0	67.7	69.9	71.0	71.0	72.1
82.5°	25.0	30.0	33.8	41.1	43.3	51.6	51.0	52.7	51.0	44.9	49.9
85°	5.5	10.5	15.0	18.9	21.6	30.0	31.6	35.5	29.4	27.2	27.2
87.5°	0.0	0.0	0.0	0.0	0.0	4.4	8.9	12.2	10.5	8.9	8.9
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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 CATALOG NUMBER: GALN-SA3A-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8
2.5°	2358.8	2407.1	2465.3	2565.8	2636.2	2712.2	2788.8	2870.3	2891.9	2914.1
5°	1912.2	2007.1	2058.7	2193.5	2335.0	2514.7	2661.7	2822.6	2889.7	2905.3
7.5°	1448.5	1512.8	1648.2	1784.7	1960.0	2148.6	2373.8	2624.6	2702.8	2735.5
10°	1148.3	1236.0	1354.7	1501.2	1654.8	1857.9	2112.0	2404.9	2515.8	2534.1
12.5°	977.5	1075.1	1204.4	1359.2	1504.5	1657.6	1913.9	2216.3	2335.0	2374.4
15°	781.7	899.8	1049.0	1212.1	1370.3	1537.8	1797.4	2138.6	2275.6	2321.7
17.5°	614.1	709.5	871.0	1047.9	1235.4	1447.4	1773.0	2175.8	2344.4	2387.1
20°	469.9	538.1	674.0	861.0	1080.7	1358.0	1779.1	2316.1	2518.0	2576.3
22.5°	406.1	441.0	523.7	701.8	947.5	1280.4	1804.1	2508.6	2752.2	2849.2
25°	367.8	386.1	432.7	549.2	820.5	1204.9	1861.2	2767.7	3079.5	3143.8
27.5°	335.1	348.4	377.2	461.0	705.1	1135.0	1927.8	3055.0	3385.1	3481.1
30°	304.0	321.8	348.9	409.4	631.3	1071.2	2011.5	3288.0	3642.5	3731.9
32.5°	280.2	297.9	322.9	373.4	568.6	1004.1	2061.5	3492.8	3852.8	3928.8
35°	260.7	275.7	301.8	344.5	520.9	953.1	2051.5	3655.3	4056.4	4134.1
37.5°	246.9	259.6	285.7	317.3	484.9	899.8	2046.5	3870.0	4304.4	4394.2
40°	234.1	247.4	271.3	299.6	448.8	837.1	2049.3	4083.0	4568.4	4658.3
42.5°	224.1	239.1	258.5	294.6	411.6	786.6	2049.3	4268.3	4798.1	4884.6
45°	215.8	231.9	250.8	294.0	382.2	748.4	2035.4	4427.5	4981.2	5054.9
47.5°	208.6	226.3	253.5	284.0	375.0	720.6	2023.2	4555.1	5130.4	5199.7
50°	203.6	224.7	269.6	272.4	377.2	712.3	2082.0	4716.0	5261.9	5321.8
52.5°	199.7	225.2	269.1	255.2	373.4	717.9	2204.6	4967.3	5444.4	5448.8
55°	191.9	224.7	255.2	235.8	357.3	727.3	2362.2	5332.3	5730.1	5733.4
57.5°	184.2	218.6	236.9	219.1	324.5	727.3	2551.9	5677.9	6074.6	6077.4
60°	176.4	227.5	208.0	204.7	281.8	714.0	2752.2	5829.9	6182.8	6211.1
62.5°	168.6	229.1	185.8	191.9	250.8	681.8	2901.4	5661.9	6036.3	6076.8
65°	159.8	184.7	171.4	178.6	234.7	628.0	2854.2	5354.0	5761.2	5809.4
67.5°	149.2	156.4	155.9	164.8	229.1	548.7	2605.7	4964.5	5464.9	5462.1
70°	136.5	140.4	142.0	151.4	218.6	487.1	2171.3	4459.1	5069.4	5131.5
72.5°	123.2	126.5	128.1	136.5	208.0	452.1	1685.4	3762.9	4390.9	4488.0
75°	108.7	111.0	113.2	120.4	196.9	400.5	1200.5	2872.5	3362.9	3515.5
77.5°	93.8	93.8	96.5	103.7	165.9	330.6	805.5	2014.9	2278.4	2434.3
80°	76.0	76.6	75.4	83.2	122.0	226.3	457.7	1345.8	1516.2	1546.1
82.5°	58.2	56.6	57.1	61.0	91.0	154.2	244.1	836.0	852.1	835.5
85°	36.6	36.6	35.5	39.9	58.2	80.4	133.1	512.0	400.0	380.6
87.5°	15.0	12.2	13.9	16.1	27.7	32.7	52.1	105.4	40.5	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)