

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: P451740

Luminaire Tested: **GALN-SA2C-827-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451740  
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-SA2C-827-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 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: 8959 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

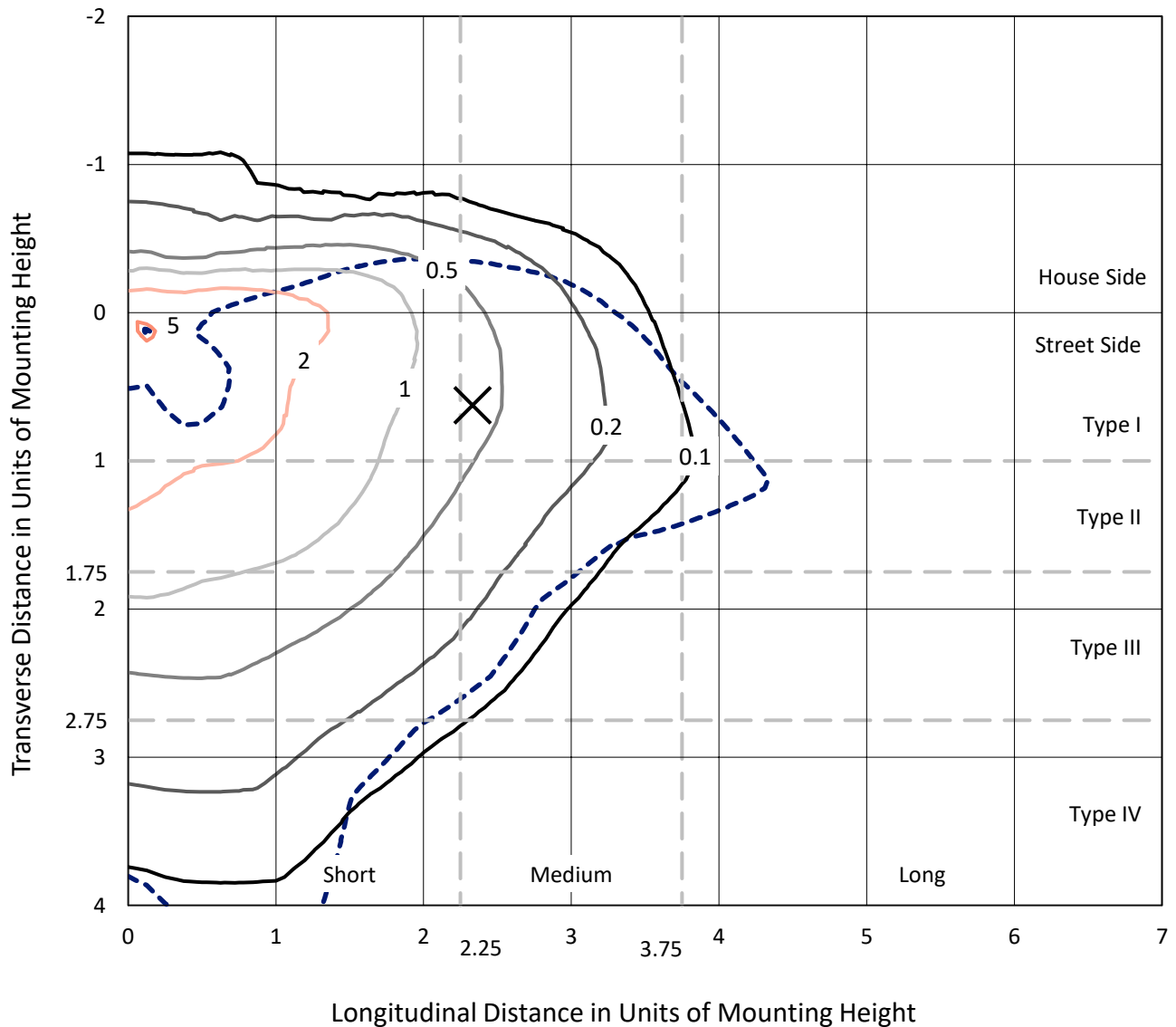
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

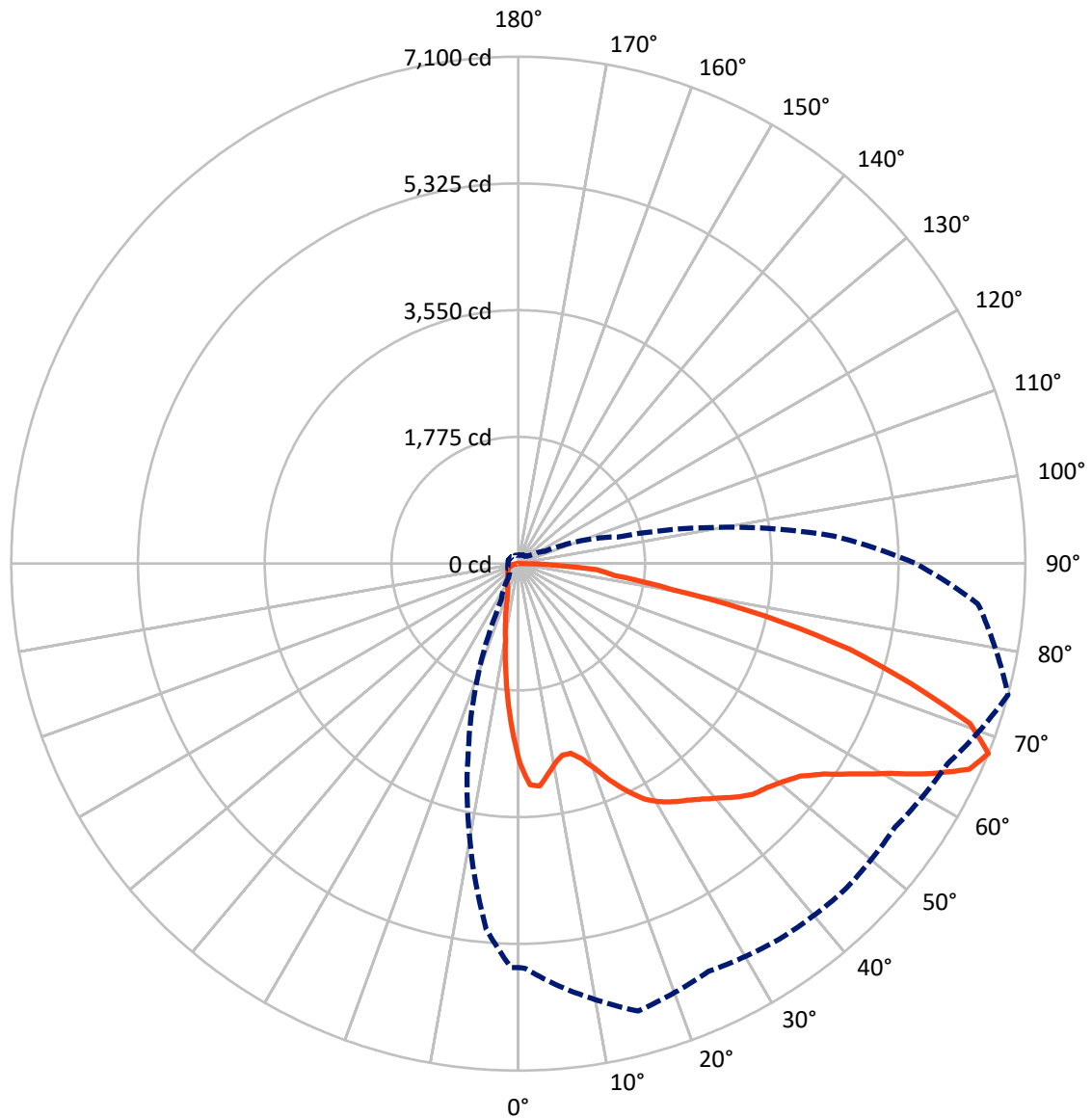
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	1514.3	0.0	1514.3
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	7444.7	0.0	7444.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	8959.0	0.0	8959.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.3	2.4
10°-20°	442.8	4.9
20°-30°	637.1	7.1
30°-40°	917.6	10.2
40°-50°	1289.0	14.4
50°-60°	1797.7	20.1
60°-70°	2137.4	23.9
70°-80°	1258.8	14.1
80°-90°	266.2	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°	8959.0	100.0
0°-180°	8959.0	100.0

**Coefficient of Utilization**



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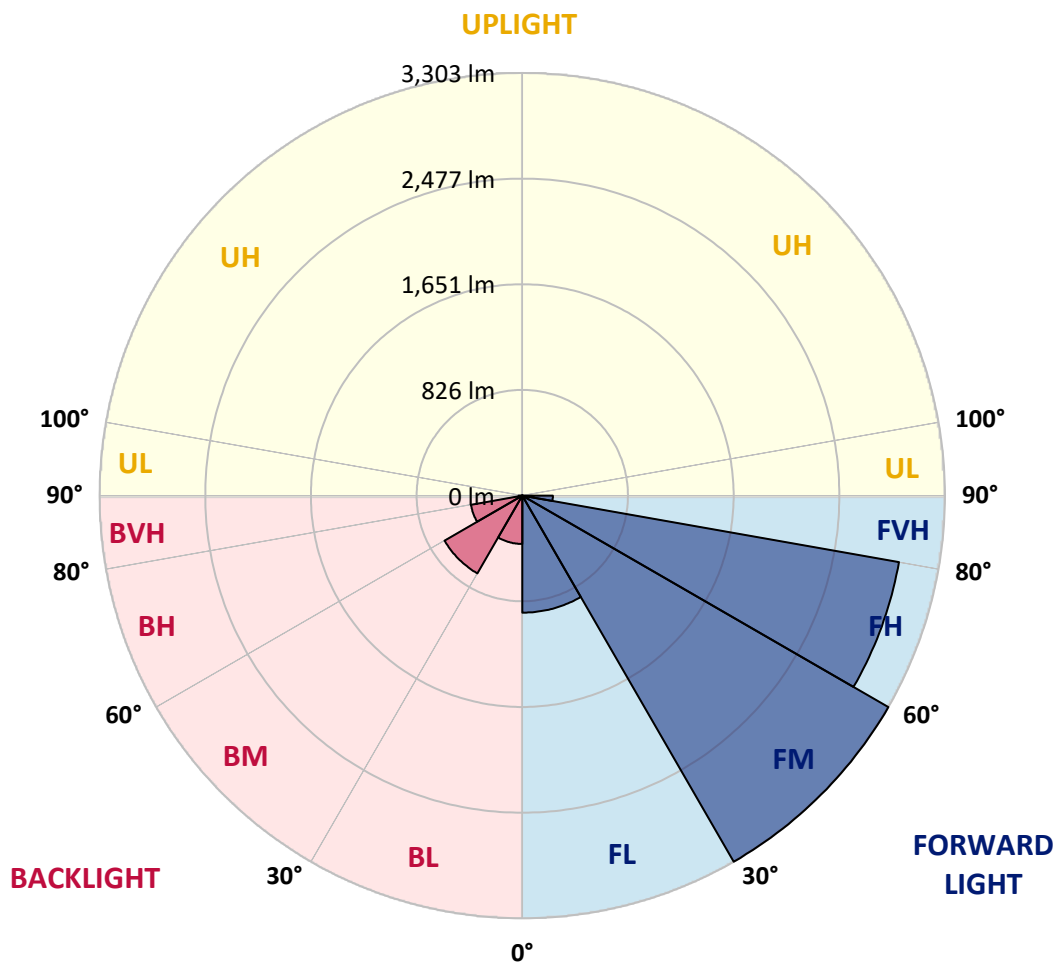
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	914.5	10.2			
FM	(30°-60°)	3302.9	36.9			
FH	(60°-80°)	2988.8	33.4			G2/5000
FVH	(80°-90°)	238.7	2.7			G3/500
BL	(0°-30°)	377.7	4.2	B1/500		
BM	(30°-60°)	701.6	7.8	B1/1000		
BH	(60°-80°)	407.5	4.5	B1/500		G1/500
BVH	(80°-90°)	27.5	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°	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0
2.5°	3017.9	3021.9	3047.8	3123.0	3174.7	3193.7	3206.9	3182.2	3158.1	3099.5	3011.0
5°	3008.7	3032.3	3099.5	3268.4	3401.7	3459.1	3476.3	3402.2	3279.9	3129.3	2948.4
7.5°	2832.9	2864.5	2967.9	3251.1	3486.1	3620.6	3602.7	3468.9	3248.3	2980.0	2727.2
10°	2624.4	2659.4	2784.1	3126.5	3429.2	3614.2	3614.2	3451.1	3158.1	2839.2	2547.9
12.5°	2458.9	2495.7	2638.1	2998.4	3310.9	3486.1	3515.4	3375.2	3093.2	2750.2	2430.2
15°	2404.3	2439.9	2593.3	2920.8	3185.6	3292.5	3302.3	3256.3	3061.6	2756.5	2425.0
17.5°	2472.1	2518.1	2673.2	2943.8	3070.7	3077.1	3084.5	3120.7	3065.0	2872.0	2529.6
20°	2668.0	2717.4	2879.4	3017.9	2970.2	2904.7	2908.7	3001.8	3105.8	3062.7	2779.5
22.5°	2950.7	2993.8	3159.8	3148.3	2927.7	2792.7	2764.5	2894.4	3166.1	3300.5	3045.5
25°	3255.7	3306.3	3497.0	3341.9	2939.8	2726.0	2708.2	2831.2	3228.7	3522.9	3352.8
27.5°	3605.0	3654.4	3805.0	3537.2	3003.0	2720.9	2699.6	2825.4	3285.0	3728.6	3646.4
30°	3864.7	3910.1	4012.4	3701.6	3080.5	2755.3	2728.9	2870.8	3333.3	3869.3	3932.5
32.5°	4068.7	4115.8	4171.5	3803.8	3182.8	2818.0	2769.1	2953.5	3396.5	3976.7	4144.5
35°	4281.2	4337.0	4332.9	3894.6	3278.1	2890.4	2842.7	3073.0	3495.9	4070.4	4413.4
37.5°	4550.7	4573.1	4544.4	3976.2	3392.5	3020.8	2994.3	3250.6	3637.2	4183.6	4727.6
40°	4824.1	4869.0	4721.3	4075.0	3531.5	3266.1	3263.2	3513.1	3805.0	4316.3	5032.1
42.5°	5058.5	5096.5	4886.8	4161.2	3699.8	3565.4	3587.2	3865.3	4025.0	4470.2	5276.9
45°	5234.9	5268.8	5039.6	4244.5	3921.6	3911.3	4039.9	4242.7	4302.5	4608.7	5420.5
47.5°	5384.9	5417.6	5145.9	4370.9	4195.6	4324.3	4548.4	4636.3	4539.8	4688.0	5581.3
50°	5511.3	5521.0	5218.8	4521.4	4535.7	4830.5	5047.6	5104.5	4774.2	4801.7	5721.0
52.5°	5642.8	5630.2	5344.6	4711.0	4903.4	5310.8	5468.7	5527.9	4998.8	4941.9	5924.3
55°	5937.5	5949.6	5626.7	4950.0	5275.1	5782.4	5990.4	5933.5	5247.6	5199.9	6182.9
57.5°	6293.7	6283.4	6023.7	5324.0	5653.7	6221.3	6376.5	6285.1	5579.6	5554.3	6444.8
60°	6432.2	6446.0	6355.8	5726.1	6027.2	6605.7	6764.3	6622.4	5977.8	5966.3	6642.5
62.5°	6293.2	6370.7	6431.6	6084.0	6345.4	6888.4	7045.8	6883.8	6393.1	6476.4	6780.9
65°	6016.2	6032.9	6240.3	6387.4	6498.8	6934.9	7017.0	6930.9	6740.1	6941.2	6774.6
67.5°	5656.6	5671.0	5914.0	6486.8	6301.2	6406.3	6463.8	6438.5	6632.7	7100.3	6462.6
70°	5314.2	5302.7	5559.5	6233.4	5485.4	5325.7	5373.4	5294.1	5723.2	6711.4	5850.8
72.5°	4647.8	4689.1	4964.9	5529.1	4343.3	4083.6	4187.6	3982.5	4401.9	5748.0	4748.9
75°	3640.7	3650.4	4110.6	4640.3	3276.4	2866.8	3007.6	2921.9	3371.8	4794.8	3279.3
77.5°	2520.9	2499.1	2993.8	3544.1	2336.5	2098.7	2101.0	2060.2	2354.3	3530.4	2227.9
80°	1601.2	1567.8	1874.0	2189.5	1605.8	1717.8	1661.5	1659.8	1532.8	2178.0	1347.2
82.5°	865.2	902.0	1184.1	1372.5	1151.9	1327.7	1216.8	1181.2	1051.9	1363.3	861.8
85°	394.1	428.6	631.4	933.6	875.0	884.7	591.2	697.5	870.4	1107.1	460.2
87.5°	38.5	49.4	130.4	440.6	298.7	235.5	87.9	169.5	218.9	393.5	36.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0
2.5°	2974.8	2944.9	2843.2	2759.4	2670.3	2602.5	2514.0	2454.9	2414.1	2352.6	2345.1
5°	2838.1	2765.1	2588.2	2407.8	2252.1	2134.9	2015.9	1906.8	1842.4	1822.3	1796.5
7.5°	2607.7	2484.7	2257.2	2050.4	1871.7	1697.1	1562.7	1467.3	1403.5	1366.2	1321.4
10°	2418.1	2275.6	1998.7	1745.4	1598.3	1489.7	1371.4	1269.1	1190.4	1123.2	1086.4
12.5°	2290.6	2129.7	1818.3	1612.6	1498.9	1383.4	1245.0	1130.1	1014.0	937.6	904.9
15°	2252.1	2082.0	1762.6	1546.6	1383.4	1232.3	1077.2	927.3	812.4	740.0	715.8
17.5°	2346.3	2140.6	1762.0	1458.7	1247.8	1067.4	868.7	727.9	610.1	556.1	538.9
20°	2522.1	2253.2	1767.2	1371.9	1100.8	846.8	632.0	516.5	460.2	437.2	428.6
22.5°	2767.4	2425.0	1782.7	1286.3	939.9	650.3	473.4	414.8	394.7	390.7	388.9
25°	3069.6	2637.6	1835.0	1209.3	804.3	496.4	395.8	369.4	357.9	353.9	353.3
27.5°	3347.7	2912.2	1898.2	1143.3	673.3	428.0	357.9	335.5	324.0	323.4	324.6
30°	3598.7	3142.0	1951.0	1069.2	573.9	380.3	333.2	310.8	299.9	299.3	302.8
32.5°	3815.9	3331.0	1990.1	996.2	518.8	351.0	310.8	286.7	277.5	275.8	277.5
35°	4048.0	3519.4	1972.3	939.3	487.2	326.9	294.1	270.6	259.7	254.5	254.5
37.5°	4312.8	3713.6	1941.8	892.2	472.8	306.8	279.8	256.8	245.9	240.7	240.1
40°	4601.8	3907.8	1899.9	850.3	458.5	294.7	270.0	245.9	232.7	227.5	226.4
42.5°	4856.9	4073.8	1865.4	822.7	434.9	297.0	261.4	237.8	221.2	214.3	213.7
45°	5078.7	4241.0	1859.1	806.6	415.4	293.6	259.1	231.5	212.0	204.5	203.4
47.5°	5252.2	4415.1	1895.3	797.4	394.1	275.2	274.0	227.5	204.0	195.9	194.8
50°	5463.6	4662.1	1978.0	778.5	374.6	258.0	289.6	226.9	197.6	187.3	184.4
52.5°	5745.1	4983.9	2090.1	744.6	346.4	241.9	276.3	226.9	190.2	179.8	176.4
55°	6170.8	5394.1	2199.8	696.9	306.8	220.6	249.3	220.0	179.2	170.1	167.8
57.5°	6452.9	5694.0	2269.9	630.8	257.4	205.1	214.9	209.1	168.3	158.6	158.6
60°	6467.2	5774.4	2236.6	547.5	226.4	190.7	186.7	210.8	158.6	148.2	147.1
62.5°	6301.8	5577.3	2063.1	472.8	209.7	175.2	168.9	185.0	148.8	138.5	136.7
65°	6043.3	5074.6	1762.0	437.2	200.5	161.4	152.2	151.7	138.5	128.7	126.4
67.5°	5568.1	4434.6	1447.8	416.5	195.9	145.9	137.3	134.4	126.4	118.3	117.2
70°	4867.8	3714.2	1161.1	407.9	193.6	129.8	122.9	119.5	112.6	106.3	105.7
72.5°	3787.2	3012.7	958.3	402.2	192.5	114.9	107.4	102.8	98.8	93.1	93.1
75°	2720.3	2216.5	731.3	362.5	178.1	98.8	90.8	87.9	82.2	77.6	78.7
77.5°	1714.9	1492.6	481.4	266.6	137.9	79.3	72.4	70.7	66.1	59.7	63.8
80°	1158.2	1049.6	280.9	167.8	86.8	58.0	55.7	55.2	50.0	43.1	43.7
82.5°	788.2	773.3	145.9	95.4	50.0	33.9	32.7	33.9	28.2	23.0	23.0
85°	307.9	420.5	68.9	37.3	16.1	5.2	7.5	8.0	4.6	2.3	2.9
87.5°	5.7	43.1	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°	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0
2.5°	2333.7	2328.5	2337.1	2300.3	2307.8	2321.6	2328.5	2332.5	2389.4	2376.2	2412.4
5°	1820.6	1815.4	1848.8	1853.4	1870.6	1867.2	1883.8	1887.8	1908.5	1916.0	1966.5
7.5°	1324.2	1346.6	1384.6	1404.1	1433.4	1442.6	1434.0	1455.2	1412.1	1443.2	1452.4
10°	1064.0	1037.0	1020.9	1065.7	1071.5	1114.0	1096.7	1082.9	1108.2	1109.4	1133.5
12.5°	885.9	827.9	789.4	802.0	815.8	834.2	837.1	864.6	883.0	900.3	914.6
15°	694.6	674.5	639.4	622.2	641.7	649.2	667.0	690.0	709.5	714.7	734.2
17.5°	533.1	536.6	530.8	520.5	532.6	538.3	539.5	540.0	545.2	541.8	570.5
20°	429.2	441.2	455.6	457.9	461.9	464.8	459.6	440.1	440.6	452.7	461.9
22.5°	388.4	390.7	406.8	411.9	424.6	419.4	404.5	395.3	394.1	397.0	401.6
25°	356.2	359.6	371.1	379.2	388.9	379.7	368.8	360.2	359.1	361.9	366.5
27.5°	327.5	332.6	343.0	351.0	360.2	351.6	341.3	333.8	333.2	332.6	335.5
30°	304.5	310.2	317.7	326.9	333.2	325.7	316.0	312.0	311.4	310.2	311.4
32.5°	281.5	290.7	298.2	302.8	309.1	303.3	295.9	293.6	289.6	286.1	284.4
35°	255.7	265.4	276.9	282.7	289.0	283.2	278.1	268.3	261.4	260.8	262.0
37.5°	240.7	244.7	253.9	263.7	270.0	267.1	257.4	247.6	245.9	245.9	247.0
40°	227.5	229.2	233.3	245.9	257.4	248.8	236.7	233.8	233.8	233.3	233.8
42.5°	214.3	216.0	216.0	225.8	244.2	230.4	221.2	221.2	221.2	221.8	223.5
45°	202.2	202.8	202.2	209.1	226.4	214.9	208.5	210.3	211.4	212.6	213.7
47.5°	191.9	192.5	191.9	197.6	206.2	201.7	198.2	200.5	202.8	204.5	205.7
50°	182.7	182.1	183.3	186.7	190.7	191.9	189.6	193.0	194.2	196.5	199.4
52.5°	174.7	174.1	175.2	176.9	182.7	182.7	182.7	185.6	187.9	190.2	194.2
55°	165.5	166.0	167.8	170.1	177.5	176.4	176.9	179.2	181.5	185.0	187.3
57.5°	156.8	158.0	160.3	163.7	171.2	170.6	171.2	172.4	175.2	176.9	179.2
60°	147.1	149.4	152.2	154.5	162.0	161.4	164.3	166.6	168.3	168.3	169.5
62.5°	137.3	140.8	143.6	145.4	153.4	154.0	158.0	159.7	160.9	159.7	161.4
65°	127.5	132.7	133.9	136.2	144.2	144.8	149.4	153.4	152.2	151.1	154.0
67.5°	117.8	124.1	123.5	126.4	134.4	135.6	139.6	146.5	144.2	143.1	145.4
70°	106.9	111.5	112.0	113.8	124.7	122.9	129.3	135.6	133.9	134.4	134.4
72.5°	94.8	98.8	98.8	102.3	113.8	110.9	116.1	122.9	122.9	122.4	122.4
75°	80.4	82.7	85.0	90.2	102.3	98.8	102.3	108.6	109.7	108.6	108.6
77.5°	64.9	68.4	69.5	76.4	85.0	84.5	87.9	90.8	93.1	91.9	91.9
80°	46.0	49.4	54.0	61.5	66.6	68.4	70.1	72.4	73.5	73.5	74.7
82.5°	25.9	31.0	35.0	42.5	44.8	53.4	52.9	54.6	52.9	46.5	51.7
85°	5.7	10.9	15.5	19.5	22.4	31.0	32.7	36.8	30.4	28.2	28.2
87.5°	0.0	0.0	0.0	0.0	0.0	4.6	9.2	12.6	10.9	9.2	9.2
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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 CATALOG NUMBER: GALN-SA2C-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0
2.5°	2442.8	2492.8	2553.1	2657.1	2730.1	2808.8	2888.1	2972.5	2994.9	3017.9
5°	1980.3	2078.6	2132.0	2271.6	2418.1	2604.2	2756.5	2923.1	2992.6	3008.7
7.5°	1500.0	1566.7	1706.9	1848.2	2029.7	2225.1	2458.3	2718.0	2799.0	2832.9
10°	1189.2	1280.0	1402.9	1554.6	1713.8	1924.0	2187.2	2490.5	2605.4	2624.4
12.5°	1012.3	1113.4	1247.3	1407.5	1558.1	1716.6	1982.1	2295.2	2418.1	2458.9
15°	809.5	931.9	1086.4	1255.3	1419.0	1592.5	1861.4	2214.7	2356.6	2404.3
17.5°	636.0	734.8	902.0	1085.2	1279.4	1498.9	1836.1	2253.2	2427.9	2472.1
20°	486.6	557.3	698.0	891.6	1119.1	1406.4	1842.4	2398.6	2607.7	2668.0
22.5°	420.5	456.7	542.3	726.8	981.3	1326.0	1868.3	2597.9	2850.1	2950.7
25°	380.9	399.9	448.1	568.8	849.7	1247.8	1927.5	2866.2	3189.1	3255.7
27.5°	347.0	360.8	390.7	477.4	730.2	1175.4	1996.4	3163.8	3505.6	3605.0
30°	314.8	333.2	361.4	424.0	653.8	1109.4	2083.2	3405.1	3772.2	3864.7
32.5°	290.1	308.5	334.4	386.6	588.9	1039.9	2134.9	3617.1	3990.0	4068.7
35°	270.0	285.5	312.5	356.8	539.5	987.0	2124.5	3785.4	4200.8	4281.2
37.5°	255.7	268.9	295.9	328.6	502.1	931.9	2119.4	4007.8	4457.6	4550.7
40°	242.4	256.2	280.9	310.2	464.8	866.9	2122.2	4228.4	4731.1	4824.1
42.5°	232.1	247.6	267.7	305.1	426.3	814.7	2122.2	4420.3	4968.9	5058.5
45°	223.5	240.1	259.7	304.5	395.8	775.0	2107.9	4585.1	5158.5	5234.9
47.5°	216.0	234.4	262.6	294.1	388.4	746.3	2095.2	4717.3	5313.1	5384.9
50°	210.8	232.7	279.2	282.1	390.7	737.7	2156.1	4883.9	5449.2	5511.3
52.5°	206.8	233.3	278.6	264.3	386.6	743.4	2283.1	5144.1	5638.2	5642.8
55°	198.8	232.7	264.3	244.2	370.0	753.2	2446.3	5522.2	5934.1	5937.5
57.5°	190.7	226.4	245.3	226.9	336.1	753.2	2642.7	5880.1	6290.9	6293.7
60°	182.7	235.5	215.4	212.0	291.9	739.4	2850.1	6037.5	6402.9	6432.2
62.5°	174.7	237.3	192.5	198.8	259.7	706.1	3004.7	5863.4	6251.2	6293.2
65°	165.5	191.3	177.5	185.0	243.0	650.3	2955.8	5544.6	5966.3	6016.2
67.5°	154.5	162.0	161.4	170.6	237.3	568.2	2698.5	5141.3	5659.5	5656.6
70°	141.3	145.4	147.1	156.8	226.4	504.4	2248.6	4617.9	5249.9	5314.2
72.5°	127.5	131.0	132.7	141.3	215.4	468.2	1745.4	3896.9	4547.2	4647.8
75°	112.6	114.9	117.2	124.7	204.0	414.8	1243.2	2974.8	3482.7	3640.7
77.5°	97.1	97.1	100.0	107.4	171.8	342.4	834.2	2086.6	2359.5	2520.9
80°	78.7	79.3	78.1	86.2	126.4	234.4	474.0	1393.8	1570.1	1601.2
82.5°	60.3	58.6	59.2	63.2	94.2	159.7	252.8	865.8	882.4	865.2
85°	37.9	37.9	36.8	41.4	60.3	83.3	137.9	530.3	414.2	394.1
87.5°	15.5	12.6	14.4	16.7	28.7	33.9	54.0	109.2	41.9	38.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)