

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: P648272

Luminaire Tested: **GALN-SA2B-835-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648272  
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-SA2B-835-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 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: 7722.7 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

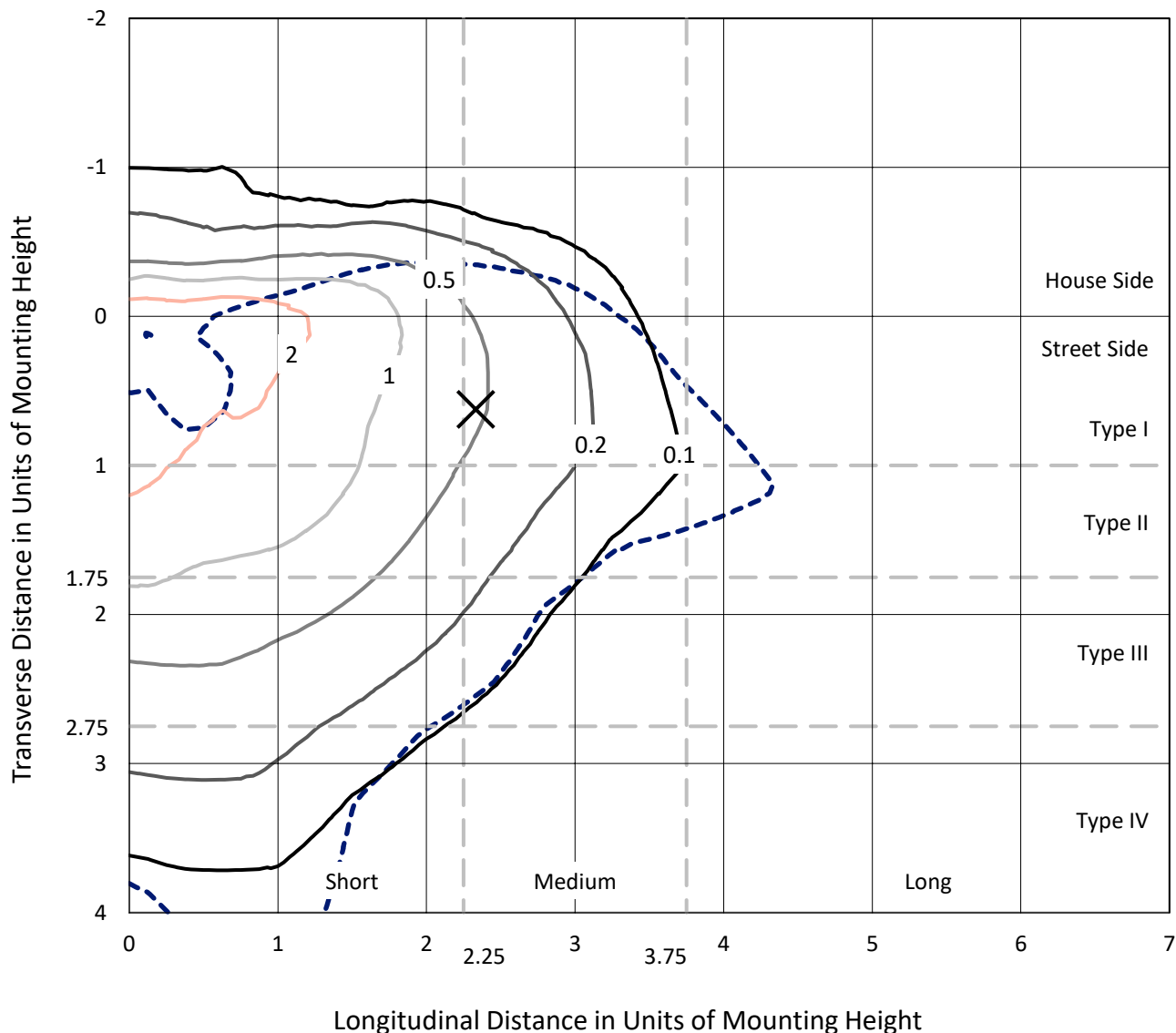
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

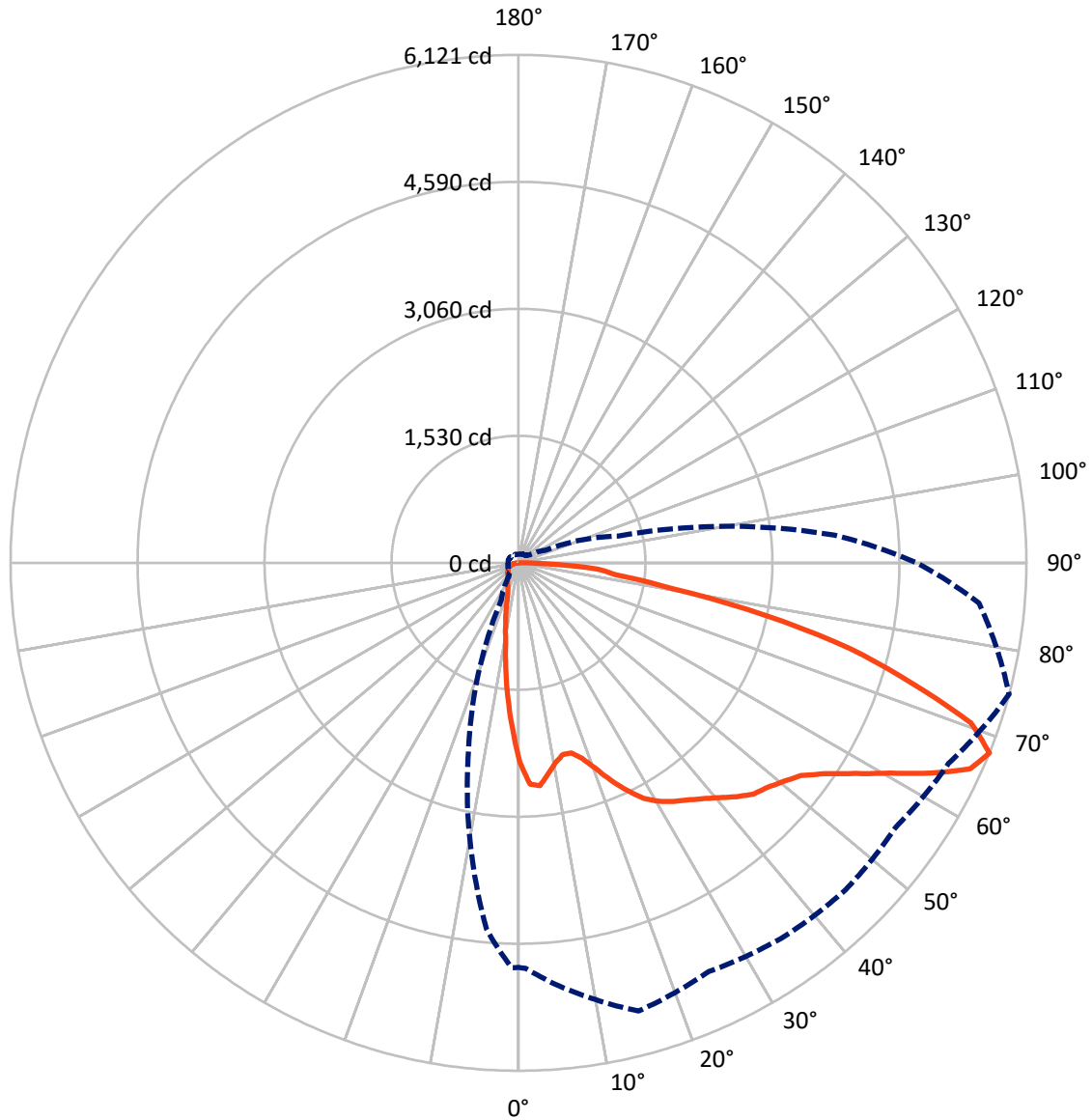
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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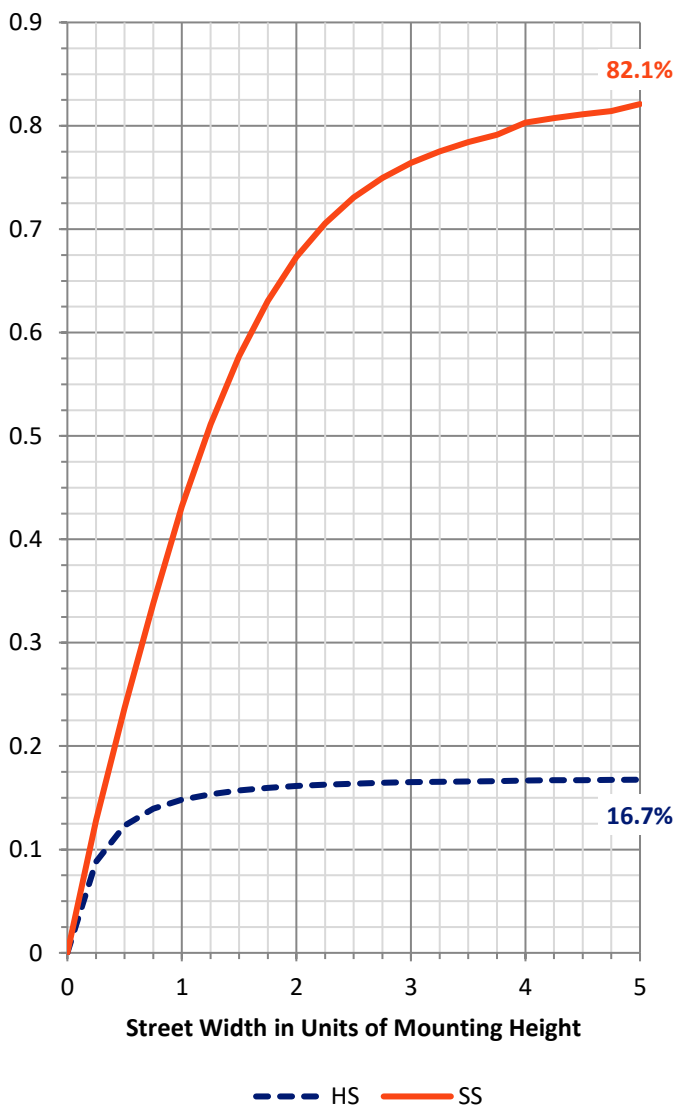
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1305.3	0.0	1305.3
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	6417.4	0.0	6417.4
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	7722.7	0.0	7722.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.0	2.4
10°-20°	381.7	4.9
20°-30°	549.2	7.1
30°-40°	791.0	10.2
40°-50°	1111.2	14.4
50°-60°	1549.7	20.1
60°-70°	1842.5	23.9
70°-80°	1085.1	14.1
80°-90°	229.5	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°	7722.7	100.0
0°-180°	7722.7	100.0

**Coefficient of Utilization**

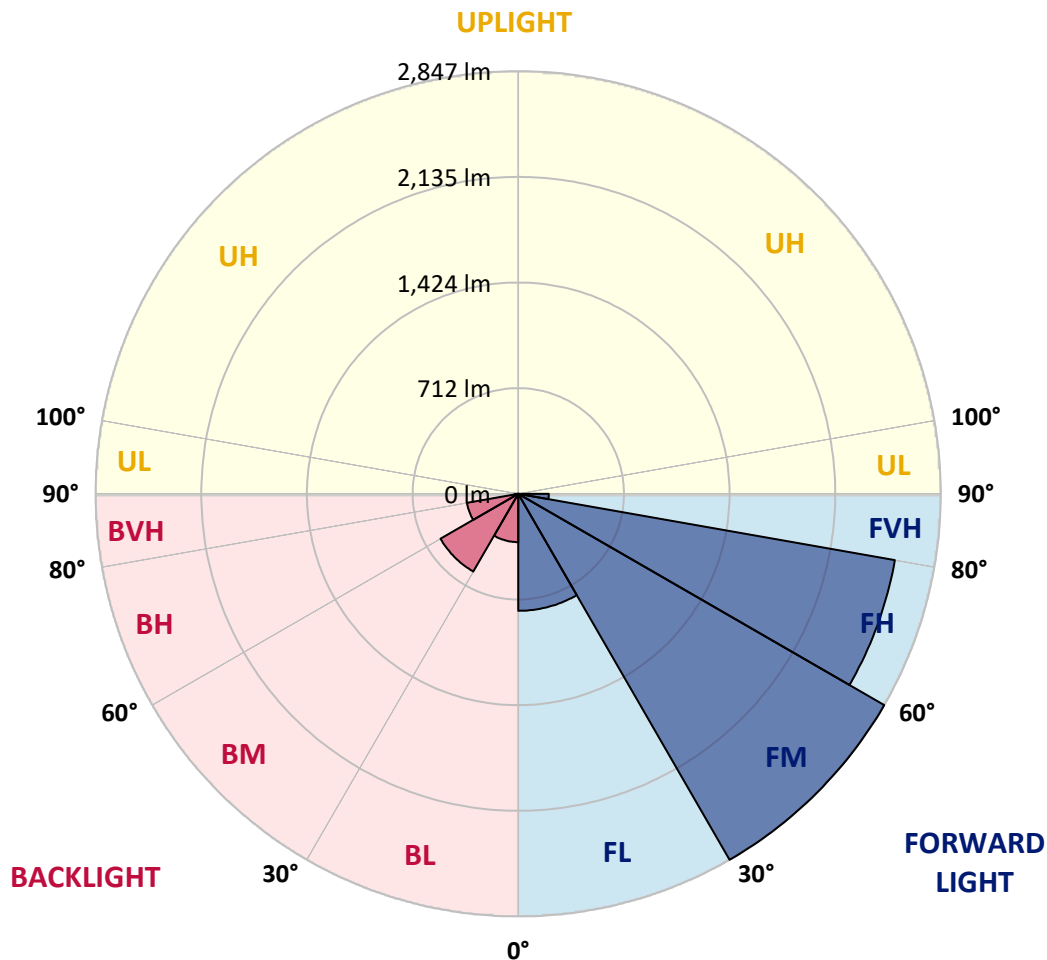


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	788.3	10.2			
FM (30°-60°)	2847.1	36.9			
FH (60°-80°)	2576.3	33.4			G2/5000
FVH (80°-90°)	205.7	2.7			G2/225
BL (0°-30°)	325.6	4.2	B1/500		
BM (30°-60°)	604.8	7.8	B1/1000		
BH (60°-80°)	351.2	4.5	B1/500		G1/500
BVH (80°-90°)	23.7	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-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7
2.5°	2601.4	2604.9	2627.2	2692.1	2736.7	2752.9	2764.4	2743.1	2722.3	2671.8	2595.5
5°	2593.5	2613.8	2671.8	2817.4	2932.3	2981.8	2996.6	2932.7	2827.3	2697.5	2541.5
7.5°	2442.0	2469.2	2558.4	2802.5	3005.1	3121.0	3105.6	2990.2	2800.0	2568.8	2350.9
10°	2262.2	2292.4	2399.9	2695.0	2956.1	3115.5	3115.5	2974.9	2722.3	2447.4	2196.3
12.5°	2119.6	2151.3	2274.1	2584.6	2854.0	3005.1	3030.3	2909.5	2666.3	2370.7	2094.8
15°	2072.5	2103.2	2235.5	2517.7	2746.1	2838.1	2846.6	2807.0	2639.1	2376.1	2090.4
17.5°	2131.0	2170.6	2304.3	2537.5	2647.0	2652.5	2658.9	2690.1	2642.1	2475.7	2180.5
20°	2299.8	2342.4	2482.1	2601.4	2560.3	2503.9	2507.3	2587.6	2677.2	2640.0	2395.9
22.5°	2543.5	2580.6	2723.7	2713.9	2523.7	2407.3	2383.1	2495.0	2729.2	2845.1	2625.2
25°	2806.5	2850.0	3014.5	2880.7	2534.1	2349.9	2334.5	2440.5	2783.2	3036.8	2890.1
27.5°	3107.6	3150.2	3279.9	3049.2	2588.6	2345.4	2327.1	2435.5	2831.7	3214.1	3143.2
30°	3331.4	3370.5	3458.7	3190.8	2655.4	2375.2	2352.4	2474.7	2873.3	3335.3	3389.8
32.5°	3507.2	3547.9	3595.8	3278.9	2743.6	2429.1	2387.0	2546.0	2927.8	3428.0	3572.6
35°	3690.4	3738.5	3735.1	3357.2	2825.8	2491.5	2450.4	2649.0	3013.5	3508.7	3804.4
37.5°	3922.8	3942.0	3917.3	3427.5	2924.3	2603.9	2581.2	2802.0	3135.3	3606.3	4075.3
40°	4158.4	4197.1	4069.8	3512.7	3044.1	2815.4	2812.9	3028.3	3279.9	3720.7	4337.7
42.5°	4360.5	4393.2	4212.5	3586.9	3189.3	3073.4	3092.2	3331.9	3469.6	3853.4	4548.7
45°	4512.5	4541.8	4344.2	3658.8	3380.4	3371.5	3482.5	3657.3	3708.8	3972.7	4672.5
47.5°	4641.8	4670.0	4435.8	3767.7	3616.7	3727.6	3920.7	3996.5	3913.3	4041.1	4811.1
50°	4750.8	4759.2	4498.6	3897.5	3909.8	4163.9	4351.1	4400.1	4115.4	4139.2	4931.5
52.5°	4864.2	4853.3	4607.1	4060.9	4226.8	4577.9	4714.1	4765.1	4309.0	4260.0	5106.8
55°	5118.2	5128.6	4850.3	4266.9	4547.2	4984.5	5163.8	5114.7	4523.5	4482.4	5329.6
57.5°	5425.3	5416.3	5192.5	4589.3	4873.5	5362.8	5496.6	5417.8	4809.7	4787.9	5555.5
60°	5544.6	5556.5	5478.7	4936.0	5195.4	5694.1	5830.8	5708.5	5152.8	5143.0	5725.8
62.5°	5424.8	5491.6	5544.1	5244.5	5469.8	5937.8	6073.5	5933.9	5510.9	5582.7	5845.2
65°	5186.0	5200.5	5379.2	5506.0	5602.1	5977.9	6048.8	5974.4	5810.0	5983.4	5839.8
67.5°	4876.1	4888.4	5097.9	5591.6	5431.7	5522.3	5571.8	5550.1	5717.5	6120.6	5570.8
70°	4580.9	4571.0	4792.4	5373.3	4728.5	4590.8	4631.9	4563.6	4933.4	5785.3	5043.5
72.5°	4006.4	4042.1	4279.8	4766.1	3743.9	3520.1	3609.7	3432.9	3794.4	4954.7	4093.6
75°	3138.3	3146.7	3543.4	4000.0	2824.3	2471.2	2592.5	2518.8	2906.5	4133.2	2826.8
77.5°	2173.1	2154.3	2580.6	3055.1	2014.1	1809.0	1811.1	1775.9	2029.5	3043.2	1920.5
80°	1380.2	1351.5	1615.4	1887.3	1384.2	1480.7	1432.2	1430.7	1321.3	1877.4	1161.3
82.5°	745.8	777.5	1020.6	1183.1	992.9	1144.5	1048.9	1018.2	906.8	1175.2	742.8
85°	339.7	369.4	544.3	804.8	754.3	762.6	509.6	601.2	750.3	954.3	396.7
87.5°	33.2	42.6	112.4	379.8	257.5	203.0	75.8	146.1	188.7	339.2	31.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7
2.5°	2564.3	2538.6	2450.9	2378.6	2301.9	2243.4	2167.1	2116.1	2081.0	2028.0	2021.5
5°	2446.4	2383.5	2231.0	2075.5	1941.3	1840.3	1737.8	1643.7	1588.2	1570.9	1548.6
7.5°	2247.8	2141.9	1945.8	1767.5	1613.4	1462.9	1347.0	1264.8	1209.8	1177.6	1139.0
10°	2084.4	1961.6	1722.9	1504.5	1377.8	1284.1	1182.1	1093.9	1026.1	968.2	936.5
12.5°	1974.5	1835.8	1567.4	1390.1	1292.0	1192.5	1073.2	974.1	874.1	808.2	780.0
15°	1941.3	1794.7	1519.3	1333.1	1192.5	1062.3	928.6	799.3	700.2	637.8	617.1
17.5°	2022.5	1845.2	1518.9	1257.4	1075.6	920.1	748.8	627.5	525.9	479.4	464.6
20°	2174.1	1942.3	1523.3	1182.6	948.8	730.0	544.7	445.2	396.7	376.9	369.4
22.5°	2385.5	2090.4	1536.7	1108.8	810.2	560.6	408.1	357.5	340.2	336.8	335.3
25°	2646.0	2273.6	1581.7	1042.5	693.3	427.9	341.2	318.4	308.5	305.1	304.6
27.5°	2885.7	2510.3	1636.2	985.5	580.4	368.9	308.5	289.2	279.3	278.8	279.8
30°	3102.1	2708.4	1681.8	921.6	494.7	327.8	287.2	267.9	258.5	258.0	261.0
32.5°	3289.3	2871.3	1715.5	858.7	447.2	302.6	267.9	247.1	239.2	237.7	239.2
35°	3489.4	3033.8	1700.1	809.7	419.9	281.8	253.5	233.3	223.9	219.4	219.4
37.5°	3717.7	3201.1	1673.9	769.1	407.6	264.4	241.2	221.4	212.0	207.5	207.0
40°	3966.8	3368.5	1637.7	733.0	395.2	254.1	232.8	212.0	200.6	196.1	195.1
42.5°	4186.7	3511.7	1608.0	709.2	374.9	256.0	225.3	205.0	190.7	184.7	184.2
45°	4377.8	3655.8	1602.6	695.3	358.1	253.1	223.3	199.6	182.8	176.3	175.3
47.5°	4527.4	3805.8	1633.7	687.4	339.7	237.2	236.2	196.1	175.8	168.9	167.9
50°	4709.7	4018.8	1705.1	671.0	322.9	222.4	249.6	195.6	170.4	161.5	158.9
52.5°	4952.3	4296.1	1801.7	641.8	298.6	208.5	238.2	195.6	164.0	155.0	152.1
55°	5319.3	4649.7	1896.3	600.7	264.4	190.2	214.9	189.6	154.5	146.6	144.6
57.5°	5562.4	4908.2	1956.6	543.8	221.9	176.8	185.2	180.2	145.1	136.7	136.7
60°	5574.8	4977.5	1927.9	472.0	195.1	164.4	161.0	181.7	136.7	127.8	126.8
62.5°	5432.2	4807.7	1778.3	407.6	180.8	151.0	145.6	159.5	128.3	119.3	117.8
65°	5209.3	4374.4	1518.9	376.9	172.8	139.1	131.2	130.8	119.3	111.0	108.9
67.5°	4799.8	3822.7	1247.9	359.0	168.9	125.7	118.4	115.9	108.9	102.0	101.0
70°	4196.1	3201.7	1000.8	351.6	166.9	111.9	106.0	103.0	97.1	91.6	91.1
72.5°	3264.6	2597.0	826.1	346.6	165.9	99.0	92.6	88.6	85.2	80.3	80.3
75°	2344.9	1910.6	630.4	312.5	153.5	85.2	78.2	75.8	70.8	66.9	67.8
77.5°	1478.2	1286.6	415.0	229.8	118.9	68.4	62.4	60.9	56.9	51.5	55.0
80°	998.4	904.8	242.2	144.6	74.8	50.0	48.1	47.5	43.1	37.1	37.7
82.5°	679.5	666.6	125.7	82.2	43.1	29.2	28.3	29.2	24.3	19.8	19.8
85°	265.4	362.5	59.4	32.2	13.9	4.5	6.4	7.0	4.0	2.0	2.5
87.5°	4.9	37.1	1.5	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°	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7
2.5°	2011.6	2007.1	2014.6	1982.9	1989.4	2001.2	2007.1	2010.7	2059.7	2048.2	2079.5
5°	1569.4	1564.9	1593.6	1597.6	1612.4	1609.5	1623.9	1627.3	1645.2	1651.6	1695.2
7.5°	1141.5	1160.8	1193.5	1210.4	1235.6	1243.6	1236.1	1254.4	1217.3	1244.0	1251.9
10°	917.1	893.9	880.0	918.6	923.6	960.3	945.4	933.5	955.3	956.3	977.1
12.5°	763.7	713.6	680.4	691.3	703.2	719.1	721.5	745.3	761.2	776.0	788.4
15°	598.8	581.4	551.2	536.4	553.2	559.6	575.0	594.8	611.6	616.1	632.9
17.5°	459.5	462.5	457.6	448.7	459.1	464.0	465.0	465.5	470.0	467.0	491.8
20°	370.0	380.3	392.8	394.7	398.2	400.7	396.2	379.4	379.8	390.2	398.2
22.5°	334.8	336.8	350.6	355.1	366.0	361.5	348.7	340.7	339.7	342.2	346.2
25°	307.0	310.0	319.9	326.8	335.3	327.4	318.0	310.5	309.5	312.0	315.9
27.5°	282.3	286.7	295.7	302.6	310.5	303.1	294.2	287.8	287.2	286.7	289.2
30°	262.5	267.4	273.9	281.8	287.2	280.8	272.4	268.9	268.4	267.4	268.4
32.5°	242.7	250.6	257.1	261.0	266.5	261.4	255.0	253.1	249.6	246.6	245.2
35°	220.4	228.8	238.7	243.7	249.1	244.1	239.7	231.3	225.3	224.8	225.8
37.5°	207.5	210.9	218.9	227.3	232.8	230.3	221.9	213.4	212.0	212.0	213.0
40°	196.1	197.6	201.1	212.0	221.9	214.5	204.0	201.5	201.5	201.1	201.5
42.5°	184.7	186.2	186.2	194.7	210.5	198.6	190.7	190.7	190.7	191.1	192.6
45°	174.3	174.8	174.3	180.2	195.1	185.2	179.8	181.3	182.3	183.2	184.2
47.5°	165.4	165.9	165.4	170.4	177.8	173.8	170.9	172.8	174.8	176.3	177.3
50°	157.5	157.0	158.0	161.0	164.4	165.4	163.4	166.4	167.4	169.4	171.9
52.5°	150.6	150.0	151.0	152.5	157.5	157.5	157.5	160.0	161.9	164.0	167.4
55°	142.7	143.1	144.6	146.6	153.0	152.1	152.5	154.5	156.5	159.5	161.5
57.5°	135.2	136.2	138.2	141.2	147.6	147.0	147.6	148.5	151.0	152.5	154.5
60°	126.8	128.7	131.2	133.2	139.7	139.1	141.6	143.6	145.1	145.1	146.1
62.5°	118.4	121.4	123.8	125.3	132.2	132.7	136.2	137.7	138.7	137.7	139.1
65°	109.9	114.4	115.4	117.4	124.3	124.8	128.7	132.2	131.2	130.2	132.7
67.5°	101.6	107.0	106.5	108.9	115.9	116.9	120.3	126.3	124.3	123.3	125.3
70°	92.1	96.1	96.5	98.0	107.4	106.0	111.4	116.9	115.4	115.9	115.9
72.5°	81.7	85.2	85.2	88.2	98.0	95.6	100.1	106.0	106.0	105.5	105.5
75°	69.3	71.3	73.3	77.8	88.2	85.2	88.2	93.6	94.6	93.6	93.6
77.5°	56.0	59.0	59.9	65.9	73.3	72.8	75.8	78.2	80.3	79.2	79.2
80°	39.6	42.6	46.6	53.0	57.5	59.0	60.4	62.4	63.4	63.4	64.4
82.5°	22.3	26.8	30.2	36.6	38.6	46.0	45.6	47.1	45.6	40.1	44.6
85°	4.9	9.4	13.4	16.8	19.3	26.8	28.3	31.7	26.2	24.3	24.3
87.5°	0.0	0.0	0.0	0.0	0.0	4.0	7.9	10.9	9.4	7.9	7.9
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-SA2B-835-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7	2412.7
2.5°	2105.7	2148.8	2200.8	2290.4	2353.3	2421.2	2489.5	2562.3	2581.6	2601.4
5°	1707.1	1791.7	1837.8	1958.1	2084.4	2244.9	2376.1	2519.7	2579.7	2593.5
7.5°	1293.0	1350.5	1471.3	1593.2	1749.6	1918.0	2119.1	2343.0	2412.7	2442.0
10°	1025.1	1103.4	1209.3	1340.1	1477.3	1658.6	1885.3	2146.8	2245.9	2262.2
12.5°	872.6	959.7	1075.1	1213.3	1343.1	1479.7	1708.6	1978.5	2084.4	2119.6
15°	697.8	803.3	936.5	1082.1	1223.2	1372.8	1604.5	1909.1	2031.4	2072.5
17.5°	548.3	633.4	777.5	935.5	1102.9	1292.0	1582.8	1942.3	2092.9	2131.0
20°	419.5	480.4	601.7	768.6	964.7	1212.3	1588.2	2067.6	2247.8	2299.8
22.5°	362.5	393.7	467.5	626.5	845.9	1143.0	1610.5	2239.5	2456.8	2543.5
25°	328.3	344.7	386.3	490.3	732.4	1075.6	1661.5	2470.7	2749.0	2806.5
27.5°	299.1	311.0	336.8	411.5	629.5	1013.3	1721.0	2727.3	3021.9	3107.6
30°	271.4	287.2	311.5	365.5	563.6	956.3	1795.7	2935.2	3251.7	3331.4
32.5°	250.1	265.9	288.2	333.3	507.6	896.4	1840.3	3118.0	3439.4	3507.2
35°	232.8	246.1	269.4	307.6	465.0	850.8	1831.4	3263.1	3621.1	3690.4
37.5°	220.4	231.8	255.0	283.3	432.8	803.3	1826.9	3454.8	3842.5	3922.8
40°	209.0	220.9	242.2	267.4	400.7	747.3	1829.4	3644.9	4078.3	4158.4
42.5°	200.1	213.4	230.8	262.9	367.5	702.3	1829.4	3810.3	4283.2	4360.5
45°	192.6	207.0	223.9	262.5	341.2	668.1	1817.0	3952.4	4446.7	4512.5
47.5°	186.2	202.1	226.3	253.5	334.8	643.3	1806.1	4066.4	4579.9	4641.8
50°	181.7	200.6	240.7	243.1	336.8	635.9	1858.6	4210.0	4697.3	4750.8
52.5°	178.3	201.1	240.2	227.8	333.3	640.8	1968.1	4434.3	4860.2	4864.2
55°	171.3	200.6	227.8	210.5	318.9	649.3	2108.7	4760.2	5115.3	5118.2
57.5°	164.4	195.1	211.5	195.6	289.7	649.3	2278.1	5068.7	5422.7	5425.3
60°	157.5	203.0	185.7	182.8	251.6	637.4	2456.8	5204.4	5519.4	5544.6
62.5°	150.6	204.5	165.9	171.3	223.9	608.6	2590.1	5054.3	5388.6	5424.8
65°	142.7	164.9	153.0	159.5	209.5	560.6	2548.0	4779.4	5143.0	5186.0
67.5°	133.2	139.7	139.1	147.0	204.5	489.8	2326.1	4431.8	4878.5	4876.1
70°	121.8	125.3	126.8	135.2	195.1	434.8	1938.3	3980.7	4525.4	4580.9
72.5°	109.9	112.9	114.4	121.8	185.7	403.6	1504.5	3359.1	3919.8	4006.4
75°	97.1	99.0	101.0	107.4	175.8	357.5	1071.7	2564.3	3002.1	3138.3
77.5°	83.7	83.7	86.2	92.6	148.1	295.2	719.1	1798.7	2033.9	2173.1
80°	67.8	68.4	67.3	74.3	108.9	202.1	408.6	1201.4	1353.5	1380.2
82.5°	52.0	50.5	51.0	54.5	81.2	137.7	217.9	746.3	760.7	745.8
85°	32.7	32.7	31.7	35.6	52.0	71.8	118.9	457.1	357.0	339.7
87.5°	13.4	10.9	12.4	14.3	24.7	29.2	46.6	94.1	36.2	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)