

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: P646790

Luminaire Tested: **GALN-SA2C-835-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7949.8 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

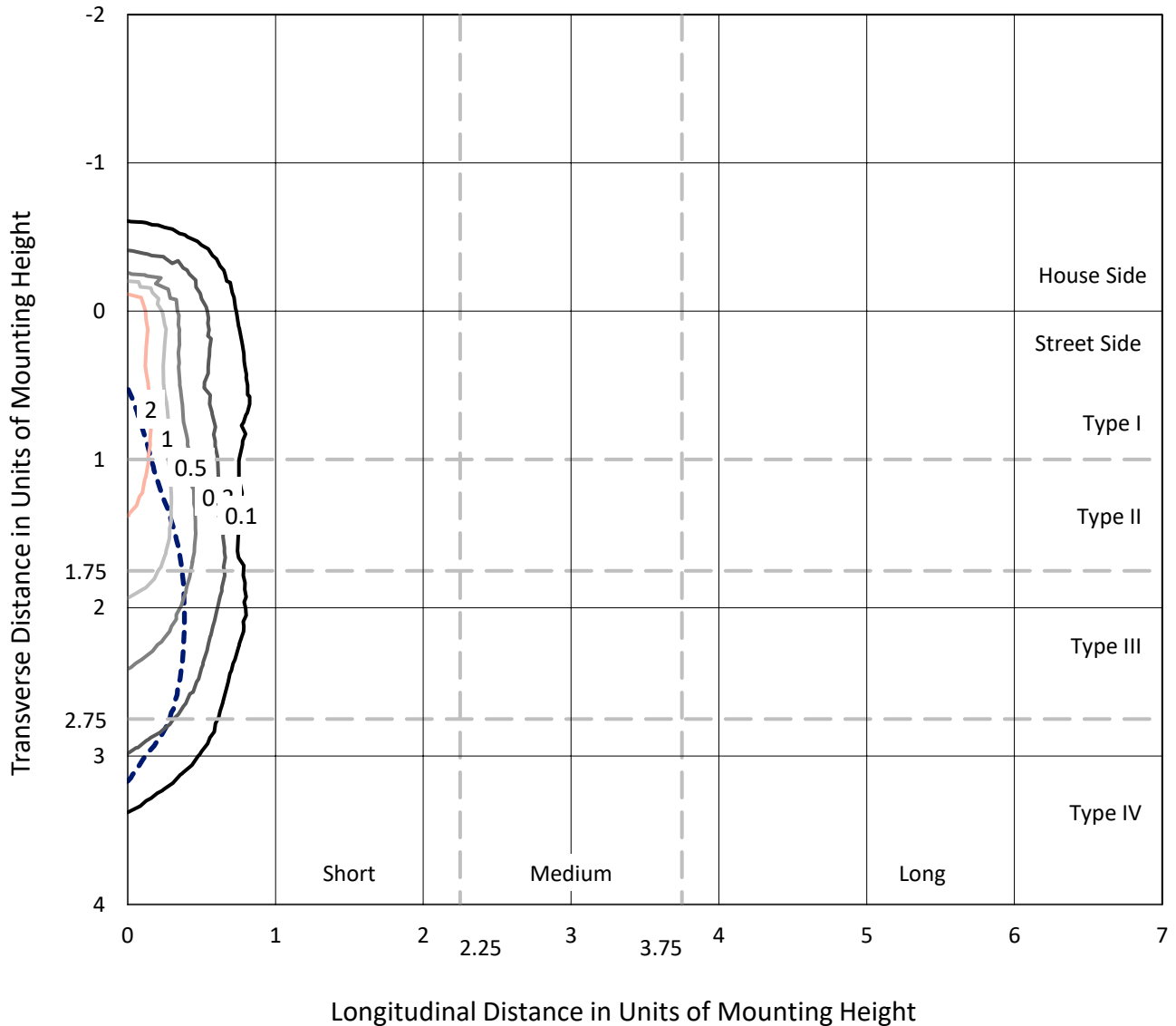




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### Iso-Footcandle Lines of Horizontal Illumination

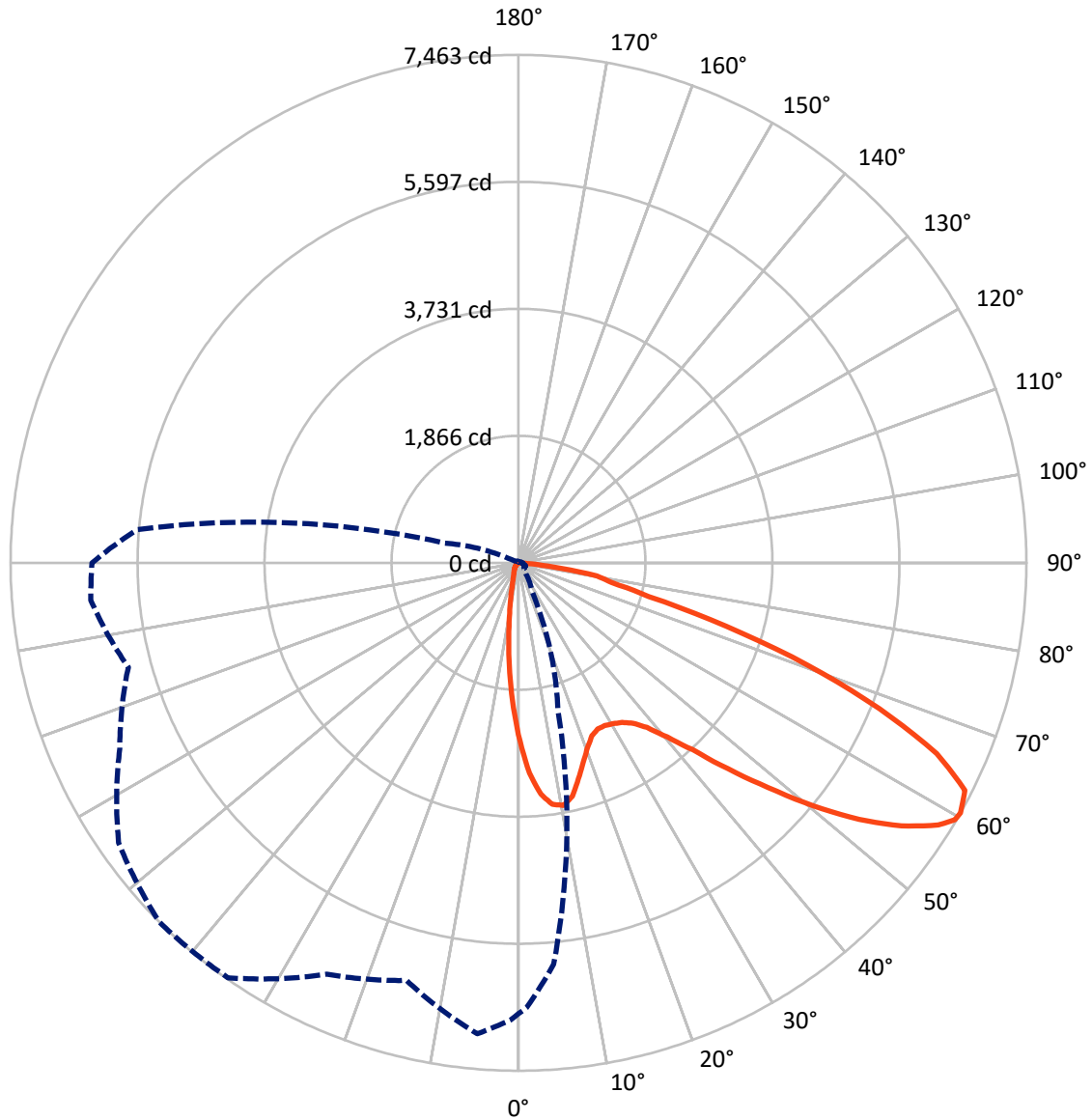
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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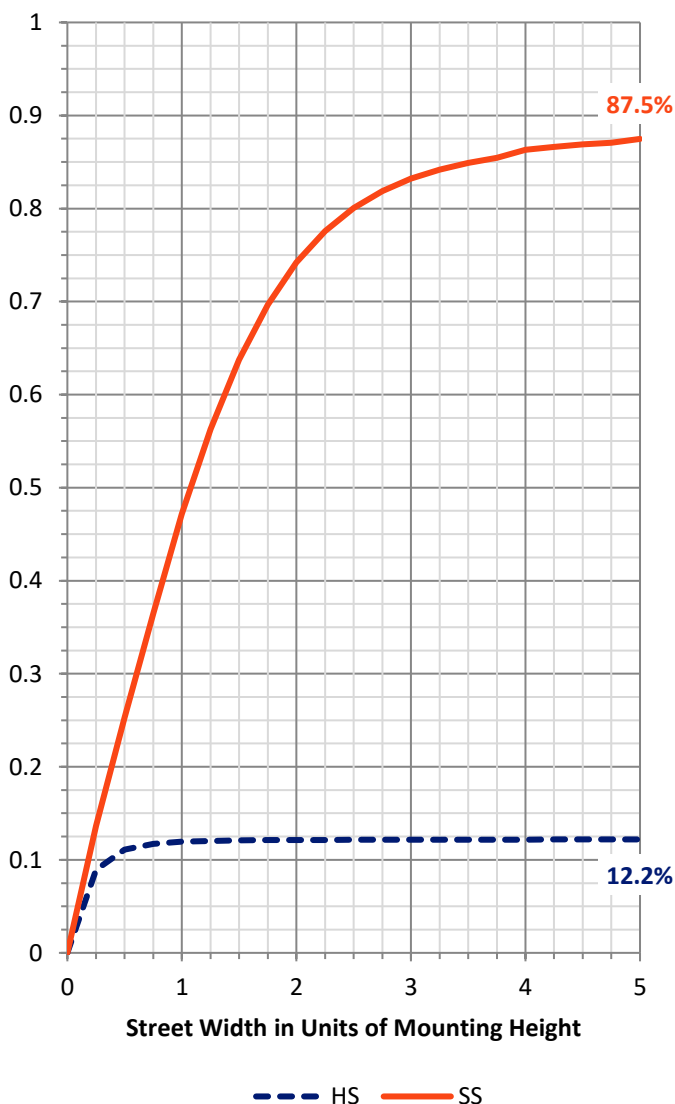
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	980.5	0.0	980.5
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	6969.3	0.0	6969.3
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	7949.8	0.0	7949.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.4	2.5
10°-20°	388.1	4.9
20°-30°	569.1	7.2
30°-40°	846.3	10.6
40°-50°	1231.7	15.5
50°-60°	1776.2	22.3
60°-70°	1953.6	24.6
70°-80°	875.0	11.0
80°-90°	114.3	1.4
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°	7949.8	100.0
0°-180°	7949.8	100.0

**Coefficient of Utilization**



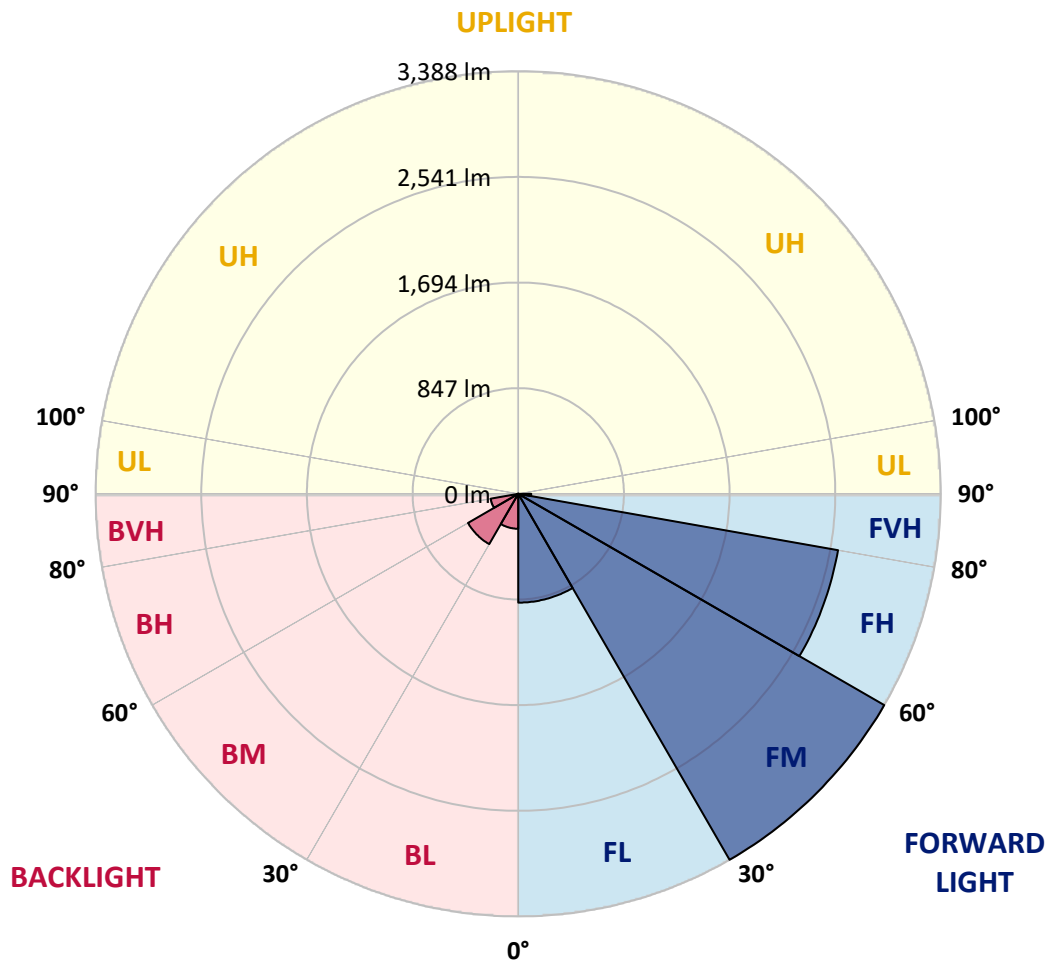
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.5	11.0			
FM (30°-60°)	3388.5	42.6			
FH (60°-80°)	2603.8	32.8			G2/5000
FVH (80°-90°)	104.6	1.3			G2/225
BL (0°-30°)	280.2	3.5	B1/500		
BM (30°-60°)	465.7	5.9	B1/1000		
BH (60°-80°)	224.9	2.8	B1/500		G1/500
BVH (80°-90°)	9.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5
2.5°	2888.6	2875.9	2846.9	2758.7	2681.9	2581.6	2480.1	2400.3	2351.3	2261.3	2220.2
5°	2798.5	2804.5	2720.6	2539.3	2337.5	2199.7	2049.2	1929.5	1797.8	1714.4	1626.8
7.5°	2563.5	2551.4	2460.1	2207.5	1962.2	1762.8	1572.4	1417.7	1320.4	1242.5	1177.2
10°	2362.2	2353.1	2236.6	1911.4	1648.0	1498.7	1369.9	1234.6	1130.0	1015.9	924.6
12.5°	2235.9	2215.4	2081.2	1741.6	1527.1	1388.1	1247.9	1107.1	962.7	847.2	736.6
15°	2193.7	2164.1	2014.7	1683.0	1449.7	1273.2	1097.5	935.5	769.3	641.7	558.4
17.5°	2270.4	2221.4	2062.5	1672.7	1357.3	1123.4	907.0	696.2	523.4	426.0	374.7
20°	2446.2	2390.0	2183.4	1662.5	1254.5	955.4	689.5	491.9	362.0	308.8	280.4
22.5°	2707.3	2629.9	2362.2	1678.8	1159.7	791.6	497.9	347.5	287.7	254.4	234.5
25°	3020.9	2956.3	2588.8	1736.8	1084.8	662.9	384.9	284.0	242.3	221.7	206.6
27.5°	3364.8	3261.4	2881.9	1806.3	1016.4	563.2	337.8	253.8	215.7	197.0	189.2
30°	3609.6	3529.1	3127.3	1854.6	931.2	488.3	308.8	250.2	216.3	193.9	179.5
32.5°	3851.3	3748.5	3332.8	1877.0	869.0	436.3	267.1	218.1	189.7	178.3	163.8
35°	4109.9	4002.3	3537.6	1864.9	822.5	401.8	242.3	194.6	162.6	143.2	128.7
37.5°	4371.6	4258.0	3741.3	1821.4	793.5	388.0	223.0	184.9	153.5	133.6	117.8
40°	4682.2	4530.5	3932.2	1785.7	763.3	380.7	210.3	178.8	146.8	125.7	110.0
42.5°	4936.0	4791.6	4112.9	1767.0	742.7	363.8	210.3	174.1	142.6	119.0	102.7
45°	5176.5	5026.6	4308.1	1782.1	734.2	342.6	212.7	173.4	139.6	114.2	97.9
47.5°	5377.7	5247.8	4508.7	1838.9	723.3	319.7	200.1	181.9	137.8	110.0	93.1
50°	5615.2	5489.5	4774.0	1953.7	704.0	296.7	184.3	195.8	137.2	106.3	88.9
52.5°	5950.0	5814.0	5140.2	2084.3	673.2	261.7	169.8	193.9	134.8	100.3	84.6
55°	6359.1	6249.1	5564.5	2240.8	630.9	222.4	146.8	172.3	127.5	90.0	77.4
57.5°	6621.4	6527.7	5882.3	2308.4	566.3	181.9	129.4	144.5	116.7	80.3	68.9
59°	6652.2	6567.6	5948.8	2286.1	523.9	166.2	120.9	123.9	113.6	74.9	64.0
60°	6626.2	6538.6	5922.2	2242.6	484.7	155.3	113.6	110.0	114.2	71.9	60.4
62.5°	6459.4	6309.6	5664.1	2022.0	423.6	142.6	100.9	90.0	100.9	64.7	53.8
65°	6137.3	5912.5	5153.5	1711.4	399.4	135.4	85.8	75.6	76.7	56.8	46.5
67.5°	5574.7	5291.3	4473.7	1390.5	389.2	136.0	72.5	67.7	59.2	48.3	41.1
70°	4685.2	4402.3	3589.6	1144.0	384.4	136.0	61.6	58.0	49.6	40.5	35.6
72.5°	3320.1	3015.5	2421.4	898.6	346.2	135.4	52.5	52.5	40.5	33.8	29.0
75°	1875.8	1878.2	1522.2	635.7	287.7	111.8	42.3	41.7	29.6	26.0	21.8
77.5°	1093.2	1073.9	1026.1	273.1	133.6	50.7	29.6	25.4	20.5	18.7	15.7
80°	562.0	462.3	450.2	99.1	47.8	32.0	20.5	14.5	13.3	12.1	10.9
82.5°	166.2	166.8	148.7	39.9	26.6	21.1	10.3	7.8	7.3	6.7	6.7
85°	11.5	7.3	8.5	12.1	16.3	8.5	0.6	1.8	1.8	2.4	3.1
87.5°	1.2	0.6	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5
2.5°	2174.9	2201.5	2151.9	2153.2	2112.1	2125.4	2077.0	2092.7	2064.3	2086.1	2150.1
5°	1636.5	1642.5	1602.6	1590.0	1596.0	1620.7	1630.4	1586.3	1605.1	1568.2	1565.8
7.5°	1153.0	1160.2	1137.3	1134.3	1177.8	1167.5	1186.2	1140.9	1098.0	1116.8	1082.3
10°	895.6	865.4	818.2	804.9	796.5	801.9	801.9	760.8	754.8	738.4	763.3
12.5°	707.0	670.2	625.5	565.0	549.9	548.7	526.3	490.1	478.6	464.7	485.2
15°	513.6	498.5	461.1	427.3	392.8	386.2	349.9	320.2	281.0	275.5	273.7
17.5°	361.4	339.0	338.4	319.1	299.1	285.9	252.0	218.1	203.0	201.2	201.2
20°	270.8	262.9	250.2	247.7	241.7	226.6	196.4	178.3	171.0	171.6	174.1
22.5°	227.9	222.4	210.9	205.5	203.0	189.7	167.4	155.3	151.7	151.7	152.3
25°	203.7	198.8	186.1	177.7	174.6	165.0	147.4	138.4	135.4	135.4	135.4
27.5°	185.5	179.5	166.2	158.9	153.5	142.6	131.7	122.7	119.6	119.6	120.3
30°	172.8	166.2	154.1	144.5	136.0	126.3	117.2	109.4	105.8	105.2	105.8
32.5°	155.9	149.9	137.8	131.7	122.1	110.6	103.4	96.1	92.5	93.1	92.5
35°	121.4	119.6	111.2	113.0	107.6	97.9	91.2	83.4	79.2	78.5	79.8
37.5°	110.6	103.4	93.6	94.3	92.5	88.9	78.0	69.5	66.5	66.5	67.1
40°	102.1	94.9	84.0	78.5	79.2	79.2	67.7	58.6	55.6	55.0	56.2
42.5°	94.9	87.6	75.6	66.5	64.0	67.1	57.4	48.3	45.3	44.1	45.3
45°	90.0	82.2	68.3	58.0	50.7	54.4	47.1	39.9	36.3	36.3	35.6
47.5°	85.2	78.0	62.9	50.2	42.3	40.5	38.7	32.0	28.4	27.8	28.4
50°	81.0	73.8	56.8	43.5	35.6	31.4	31.4	25.4	22.9	21.8	22.4
52.5°	76.7	68.9	51.4	38.7	30.9	25.4	22.4	20.5	18.7	18.2	18.7
55°	70.7	62.9	46.0	33.2	26.6	21.1	17.5	16.9	15.7	14.5	15.7
57.5°	63.4	56.2	40.5	28.4	21.1	16.3	14.5	13.9	12.7	12.1	12.1
59°	59.2	52.5	37.5	24.7	18.7	14.5	13.3	12.7	11.5	10.3	10.9
60°	56.8	51.4	35.6	22.9	16.9	13.3	12.1	11.5	10.3	9.6	10.3
62.5°	50.2	46.0	31.4	18.7	13.3	9.6	8.5	9.1	8.5	7.8	8.5
65°	44.1	40.5	26.6	14.5	10.3	6.7	6.0	7.8	7.3	6.7	7.3
67.5°	39.3	35.1	22.4	10.9	7.3	3.6	4.2	6.7	6.7	6.0	6.7
70°	33.8	30.2	18.2	7.8	3.6	1.8	3.1	4.9	6.0	5.4	6.0
72.5°	27.8	23.6	13.9	5.4	1.8	0.0	1.8	4.2	6.0	5.4	6.0
75°	21.8	17.5	10.3	3.1	0.0	0.0	0.6	3.6	6.0	5.4	6.0
77.5°	15.7	12.7	6.0	0.6	0.0	0.0	0.6	3.6	6.0	5.4	6.0
80°	10.3	9.1	2.4	0.0	0.0	0.0	0.6	3.6	6.0	6.0	6.7
82.5°	6.7	4.9	0.0	0.0	0.0	0.0	1.2	4.9	6.7	7.3	7.3
85°	3.1	0.0	0.0	0.0	0.0	0.0	2.4	6.0	7.8	7.8	7.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	4.2	7.3	9.1	9.1	9.1
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°	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5
2.5°	2161.0	2199.1	2252.8	2335.6	2402.7	2508.5	2589.5	2700.0	2811.8	2845.7	2898.3
5°	1590.5	1639.4	1761.5	1872.8	1942.9	2166.4	2307.8	2530.8	2730.9	2826.9	2931.5
7.5°	1104.7	1162.7	1255.8	1411.0	1558.5	1740.4	1968.9	2223.9	2517.0	2654.1	2801.6
10°	775.3	847.8	979.0	1106.5	1292.0	1464.8	1690.3	1971.8	2295.1	2457.1	2642.0
12.5°	489.5	554.1	727.6	870.8	1102.2	1302.9	1510.8	1765.7	2140.5	2306.6	2500.6
15°	279.8	334.2	415.1	598.8	855.7	1121.0	1380.3	1676.3	2061.3	2266.2	2475.8
17.5°	208.5	223.0	259.3	363.2	597.0	907.0	1260.0	1649.2	2115.0	2355.6	2594.9
20°	175.2	184.9	201.9	243.0	380.7	698.6	1142.7	1654.0	2289.1	2591.3	2818.5
22.5°	157.1	163.2	177.0	203.7	259.9	508.8	1005.5	1682.4	2500.0	2880.7	3143.0
25°	137.8	145.6	157.7	180.7	216.3	352.9	870.2	1745.9	2795.5	3248.1	3494.7
27.5°	122.7	129.9	142.0	163.2	189.7	269.5	712.5	1800.2	3107.3	3618.0	3819.8
30°	107.6	114.8	126.9	143.8	168.0	218.1	542.7	1832.2	3410.1	3895.3	4050.7
32.5°	94.9	100.9	112.4	127.5	147.4	184.9	427.8	1799.0	3641.6	4147.3	4251.3
35°	82.2	89.4	99.1	113.0	130.5	157.7	356.0	1684.2	3840.4	4406.6	4444.1
37.5°	68.9	77.4	87.6	100.3	114.2	145.0	285.9	1557.3	4053.0	4729.9	4668.2
40°	58.0	65.9	75.6	89.4	102.1	133.0	219.9	1421.9	4282.7	5033.3	4913.0
42.5°	47.1	55.6	67.1	79.8	100.9	116.0	170.4	1281.8	4488.8	5297.3	5134.2
45°	37.5	44.7	56.8	73.1	100.3	99.7	131.7	1143.3	4644.1	5485.9	5299.2
47.5°	29.6	35.6	47.8	71.3	92.5	84.6	105.8	1057.5	4807.2	5655.7	5425.5
50°	23.6	29.6	41.1	74.3	81.0	72.5	88.9	1071.5	4965.0	5742.1	5477.4
52.5°	20.0	26.0	35.6	58.6	62.2	63.4	78.0	1135.5	5168.7	5834.6	5580.8
55°	17.5	22.9	30.2	41.1	48.3	56.8	71.3	1182.0	5441.1	6032.8	5808.6
57.5°	13.9	20.0	27.2	35.1	39.9	49.6	65.9	1185.6	5687.7	6287.2	6111.3
59°	12.7	18.2	25.4	33.2	35.6	44.7	62.2	1154.8	5696.8	6325.3	6250.3
60°	11.5	17.5	24.2	30.9	33.8	42.3	59.2	1119.1	5614.6	6264.9	6307.8
62.5°	9.6	15.1	21.1	24.7	29.0	35.1	51.4	989.9	5216.3	5991.1	6201.4
65°	8.5	13.3	18.2	20.5	24.2	30.2	45.3	792.2	4776.5	5620.1	5896.9
67.5°	7.8	12.1	15.7	17.5	21.1	27.8	40.5	559.6	4206.6	5149.3	5439.3
70°	7.3	11.5	13.9	16.3	18.7	23.6	34.5	326.4	3240.3	4323.8	4630.2
72.5°	7.3	10.9	12.1	13.9	16.3	21.1	32.0	176.5	2215.4	3298.3	3694.1
75°	7.3	10.3	10.9	12.1	14.5	19.3	28.4	92.5	1432.2	2291.5	2828.1
77.5°	7.3	9.6	10.9	11.5	13.9	16.9	24.7	58.0	954.2	1605.1	1911.4
80°	7.8	9.6	10.3	11.5	13.3	15.7	20.5	38.7	560.8	965.7	1163.3
82.5°	8.5	9.6	10.9	12.1	13.9	15.1	18.2	24.2	258.6	638.8	722.8
85°	9.1	10.3	11.5	12.7	14.5	15.1	16.9	17.5	42.3	288.2	389.8
87.5°	9.6	10.9	12.1	13.3	15.7	15.7	15.7	15.7	14.5	30.9	78.5
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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CATALOG NUMBER: GALN-SA2C-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5	2627.5
2.5°	2964.8	3033.0	3080.7	3092.8	3058.4	3042.7	2999.2	2931.5	2890.4	2888.6
5°	3124.2	3284.4	3395.6	3414.3	3347.9	3235.4	3101.9	2929.7	2828.7	2798.5
7.5°	3097.1	3377.5	3556.3	3582.3	3470.5	3256.0	2997.3	2720.0	2610.0	2563.5
10°	2985.3	3327.3	3582.9	3624.0	3474.8	3172.6	2843.9	2534.5	2397.9	2362.2
12.5°	2889.8	3235.4	3462.7	3519.5	3406.4	3104.9	2752.0	2415.4	2269.1	2235.9
15°	2848.1	3126.7	3265.7	3294.7	3275.9	3062.6	2742.4	2397.3	2229.9	2193.7
17.5°	2889.8	3034.2	3051.7	3081.3	3123.1	3058.4	2835.4	2495.8	2315.1	2270.4
20°	2999.2	2953.9	2881.4	2894.0	2989.5	3075.9	3001.0	2714.0	2493.9	2446.2
22.5°	3185.3	2933.9	2769.5	2758.7	2879.5	3134.5	3243.9	3009.5	2754.4	2707.3
25°	3413.7	2984.1	2728.4	2704.9	2836.6	3220.3	3508.0	3371.4	3092.8	3020.9
27.5°	3662.7	3088.0	2728.4	2705.5	2833.0	3296.5	3734.0	3691.7	3443.3	3364.8
30°	3799.3	3173.8	2767.7	2741.8	2877.7	3340.6	3854.9	3976.3	3706.8	3609.6
32.5°	3921.3	3292.8	2844.5	2795.5	2971.4	3405.9	3963.1	4218.0	3916.5	3851.3
35°	4033.8	3420.4	2950.2	2893.4	3094.7	3495.3	4082.7	4471.9	4208.4	4109.9
37.5°	4157.7	3568.4	3115.2	3066.9	3300.7	3669.4	4224.7	4805.4	4495.4	4371.6
40°	4292.4	3740.1	3386.6	3366.0	3628.3	3866.4	4404.2	5161.4	4823.0	4682.2
42.5°	4429.6	3937.6	3718.9	3752.8	3999.3	4142.5	4588.5	5435.1	5091.3	4936.0
45°	4554.1	4190.2	4151.0	4318.4	4432.0	4412.0	4725.1	5627.9	5325.2	5176.5
47.5°	4711.2	4558.3	4673.7	4931.7	4934.8	4705.1	4828.4	5785.6	5526.4	5377.7
50°	4887.0	4992.8	5348.7	5611.6	5540.9	4993.3	4949.3	5972.3	5734.2	5615.2
52.5°	5090.7	5479.3	5972.3	6264.2	6099.3	5307.6	5150.5	6174.2	6064.2	5950.0
55°	5327.5	5811.0	6594.2	6826.8	6660.7	5698.0	5456.3	6447.9	6437.0	6359.1
57.5°	5595.2	6161.5	6954.4	7269.2	7121.2	6156.1	5883.5	6706.0	6664.9	6621.4
59°	5806.8	6341.6	7113.3	7439.6	7350.2	6477.0	6170.6	6866.8	6717.4	6652.2
60°	5934.9	6463.7	7171.9	7462.5	7442.0	6667.9	6352.5	6945.3	6716.9	6626.2
62.5°	6315.0	6677.0	7149.6	7360.4	7440.8	7034.2	6886.1	7031.7	6592.4	6459.4
65°	6450.4	6606.2	6779.1	6753.1	6822.0	7015.4	7226.9	6936.8	6326.5	6137.3
67.5°	6186.9	5830.9	5892.0	5718.6	5684.7	6237.1	7088.5	6472.7	5806.2	5574.7
70°	5215.2	4467.0	4436.2	4516.0	4297.2	5049.6	6365.2	5579.0	4947.5	4685.2
72.5°	4105.0	3156.9	2897.0	3190.7	3184.1	3852.4	5287.7	3958.8	3342.4	3320.1
75°	3228.2	2197.9	1928.9	1976.7	2068.5	2788.9	4211.4	2513.9	2058.3	1875.8
77.5°	2167.0	1557.3	1452.8	1394.1	1493.3	1790.6	2664.4	1363.3	1154.2	1093.2
80°	1249.1	1131.3	1284.7	1166.3	1219.5	1128.2	1325.2	625.5	519.1	562.0
82.5°	812.8	644.2	686.5	510.0	697.3	703.4	425.4	184.9	156.5	166.2
85°	508.2	302.2	169.8	120.9	240.5	442.3	133.0	11.5	13.3	11.5
87.5°	131.7	50.2	21.1	31.4	38.7	34.5	30.9	1.8	0.6	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)