

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: P648330

Luminaire Tested: **GALN-SA3B-835-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648330  
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-SA3B-835-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA 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: 9551.8 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 121  
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

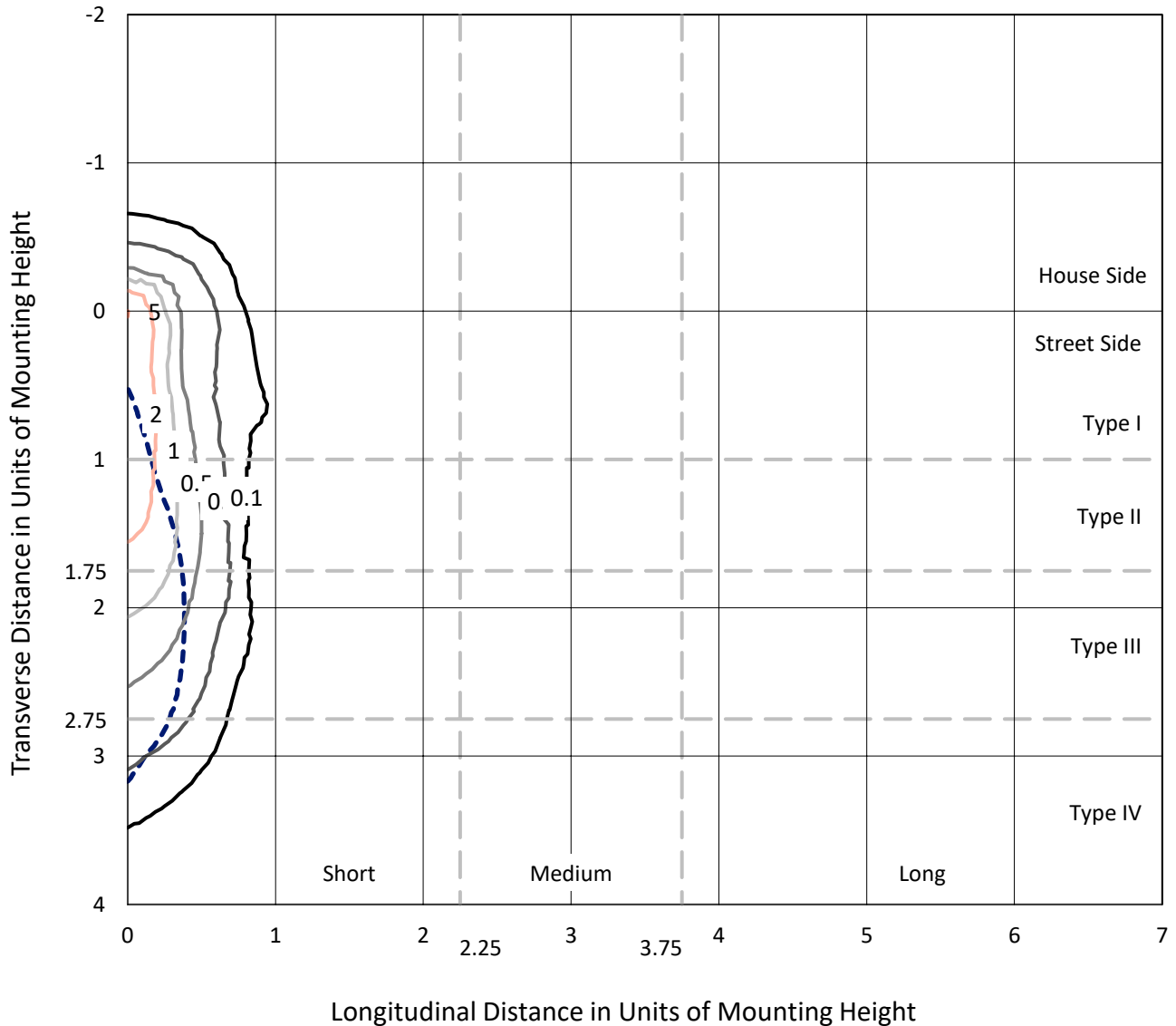




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### Iso-Footcandle Lines of Horizontal Illumination

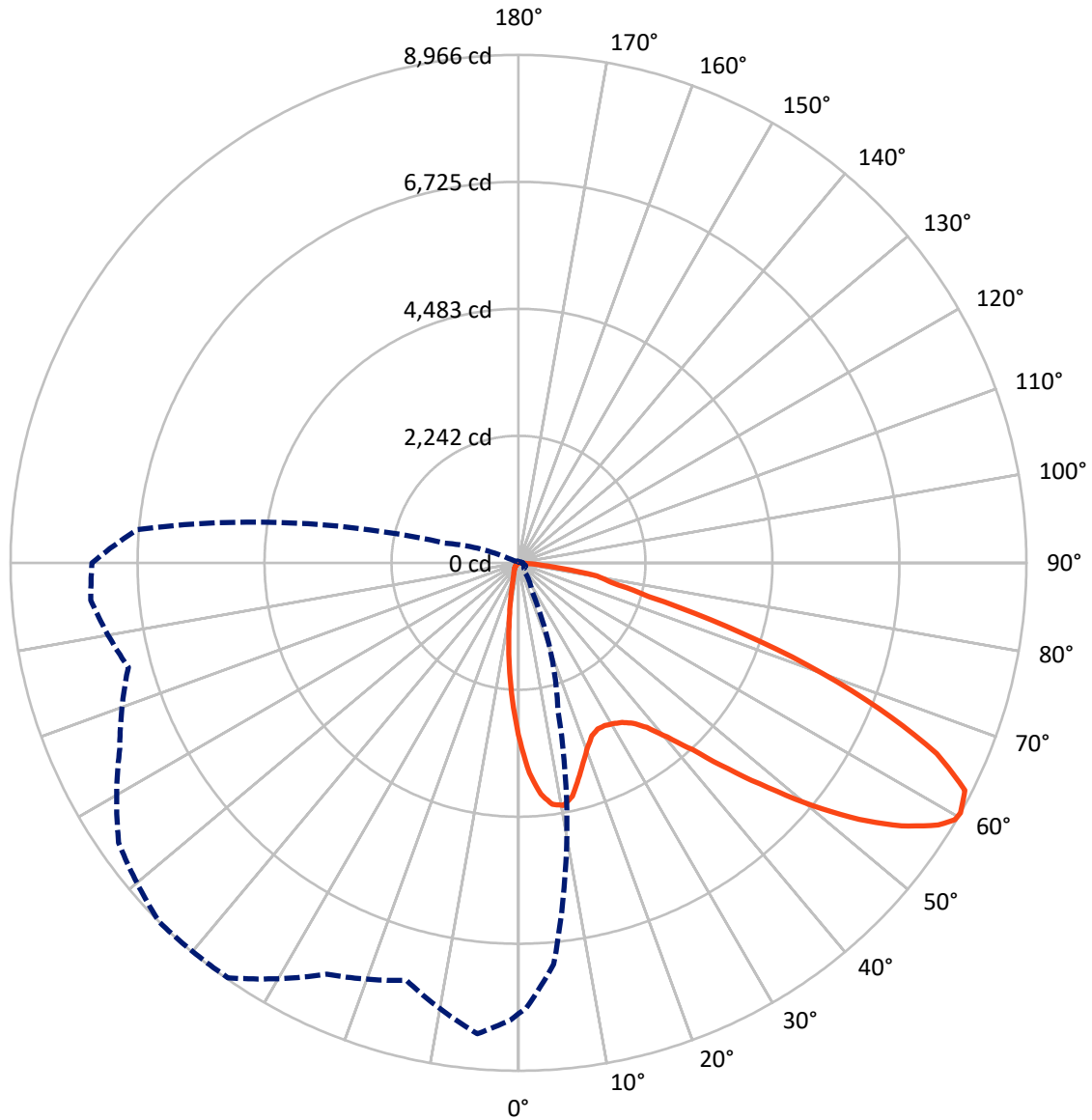
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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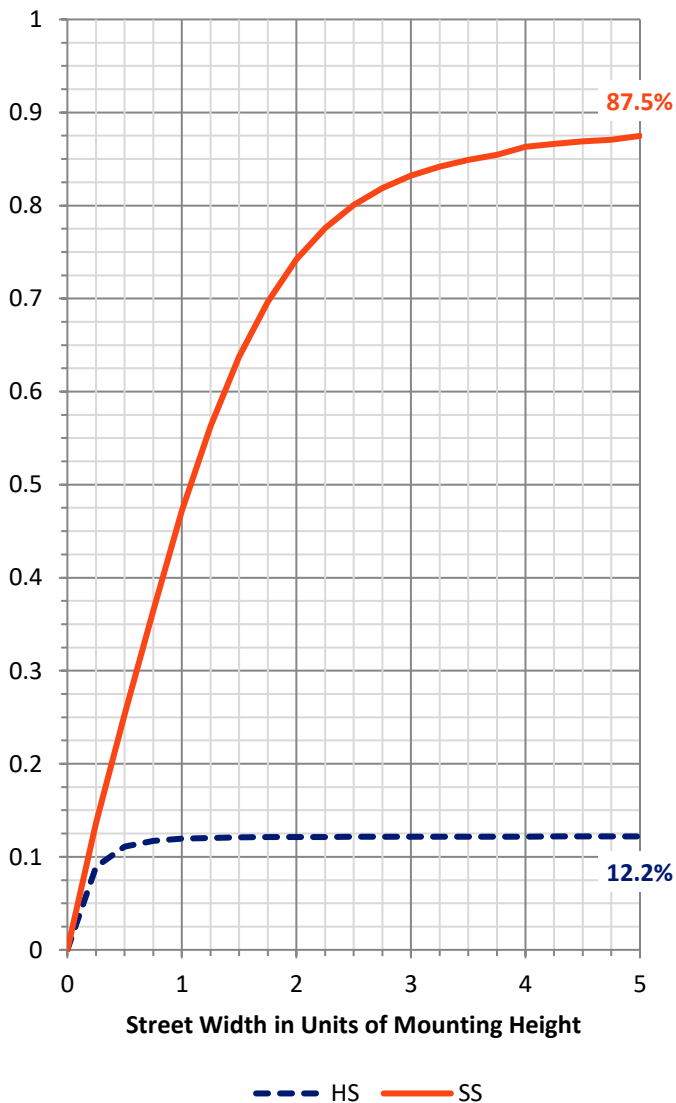
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1178.1	0.0	1178.1
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	8373.7	0.0	8373.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	9551.8	0.0	9551.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.8	2.5
10°-20°	466.3	4.9
20°-30°	683.8	7.2
30°-40°	1016.9	10.6
40°-50°	1479.9	15.5
50°-60°	2134.1	22.3
60°-70°	2347.3	24.6
70°-80°	1051.4	11.0
80°-90°	137.4	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°	9551.8	100.0
0°-180°	9551.8	100.0



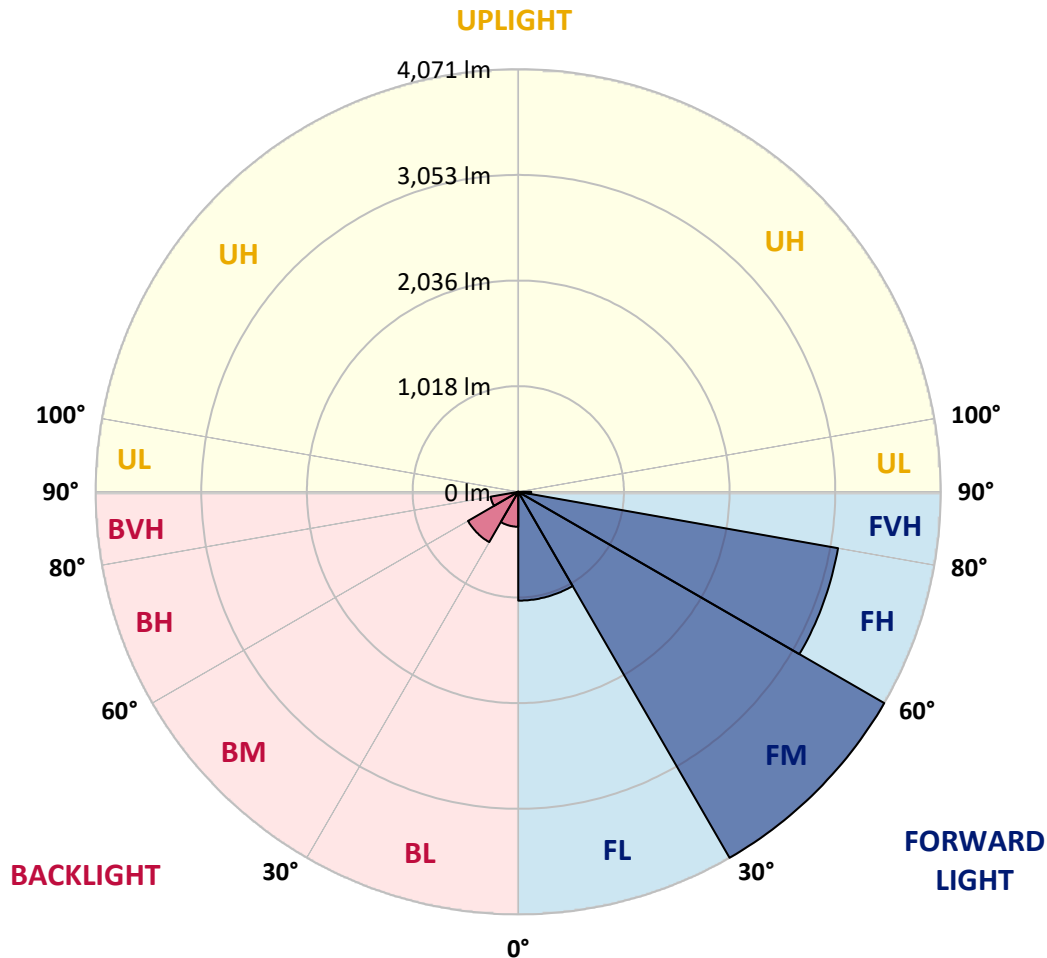
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1048.3	11.0			
FM (30°-60°)	4071.3	42.6			
FH (60°-80°)	3128.5	32.8			G2/5000
FVH (80°-90°)	125.6	1.3			G2/225
BL (0°-30°)	336.6	3.5	B1/500		
BM (30°-60°)	559.6	5.9	B1/1000		
BH (60°-80°)	270.2	2.8	B1/500		G1/500
BVH (80°-90°)	11.8	0.1			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0
2.5°	3470.6	3455.5	3420.6	3314.6	3222.4	3101.9	2979.9	2884.0	2825.2	2717.0	2667.6
5°	3362.5	3369.7	3268.8	3051.0	2808.5	2642.9	2462.1	2318.4	2160.1	2059.9	1954.6
7.5°	3080.0	3065.5	2955.9	2652.4	2357.6	2118.0	1889.3	1703.4	1586.5	1492.8	1414.4
10°	2838.3	2827.3	2687.3	2296.6	1980.1	1800.7	1646.0	1483.4	1357.8	1220.5	1110.9
12.5°	2686.5	2661.8	2500.7	2092.6	1834.8	1667.8	1499.4	1330.2	1156.6	1018.0	885.1
15°	2635.7	2600.1	2420.8	2022.2	1741.9	1529.8	1318.6	1124.0	924.3	771.1	670.9
17.5°	2727.9	2669.1	2478.1	2009.8	1630.8	1349.8	1089.9	836.5	628.8	511.9	450.1
20°	2939.2	2871.7	2623.4	1997.4	1507.4	1148.0	828.5	591.0	435.0	371.1	336.9
22.5°	3252.8	3160.0	2838.3	2017.1	1393.3	951.2	598.3	417.5	345.6	305.7	281.7
25°	3629.7	3552.0	3110.5	2086.8	1303.3	796.5	462.5	341.2	291.2	266.5	248.3
27.5°	4042.9	3918.7	3462.7	2170.2	1221.2	676.7	405.9	305.0	259.2	236.7	227.2
30°	4336.9	4240.3	3757.5	2228.3	1118.9	586.7	371.1	300.6	260.0	233.1	215.6
32.5°	4627.3	4503.9	4004.3	2255.2	1044.1	524.2	321.0	262.1	228.0	214.2	196.8
35°	4938.1	4808.9	4250.5	2240.7	988.2	482.9	291.2	233.8	195.3	172.1	154.6
37.5°	5252.5	5116.0	4495.2	2188.4	953.4	466.1	267.9	222.2	184.4	160.4	141.6
40°	5625.7	5443.4	4724.6	2145.6	917.0	457.4	252.7	214.9	176.4	151.0	132.2
42.5°	5930.7	5757.1	4941.7	2123.1	892.4	437.1	252.7	209.1	171.3	143.1	123.4
45°	6219.6	6039.6	5176.3	2141.2	882.2	411.7	255.6	208.4	167.7	137.3	117.6
47.5°	6461.4	6305.3	5417.3	2209.5	869.1	384.1	240.3	218.5	165.5	132.2	111.8
50°	6746.8	6595.8	5736.0	2347.4	845.9	356.5	221.4	235.2	164.8	127.8	106.7
52.5°	7149.0	6985.6	6176.1	2504.3	808.8	314.4	204.0	233.1	161.9	120.5	101.6
55°	7640.6	7508.4	6685.8	2692.3	758.0	267.2	176.4	206.9	153.2	108.2	92.9
57.5°	7955.7	7843.2	7067.7	2773.6	680.3	218.5	155.3	173.5	140.2	96.5	82.8
59°	7992.7	7891.1	7147.5	2746.8	629.5	199.7	145.2	148.8	136.5	90.0	77.0
60°	7961.5	7856.2	7115.6	2694.5	582.3	186.6	136.5	132.2	137.3	86.4	72.6
62.5°	7761.1	7581.0	6805.6	2429.5	509.0	171.3	121.3	108.2	121.3	77.7	64.6
65°	7374.1	7104.0	6192.0	2056.2	480.0	162.6	103.1	90.7	92.2	68.3	55.9
67.5°	6698.1	6357.6	5375.2	1670.7	467.6	163.3	87.1	81.4	71.2	58.1	49.4
70°	5629.3	5289.6	4312.9	1374.5	461.8	163.3	74.1	69.7	59.5	48.6	42.8
72.5°	3989.1	3623.2	2909.4	1079.7	416.0	162.6	63.2	63.2	48.6	40.6	34.8
75°	2253.8	2256.7	1829.0	763.8	345.6	134.4	50.8	50.1	35.5	31.2	26.2
77.5°	1313.5	1290.2	1232.9	328.2	160.4	61.0	35.5	30.5	24.7	22.5	18.9
80°	675.3	555.5	540.9	119.1	57.4	38.4	24.7	17.5	16.0	14.5	13.1
82.5°	199.7	200.4	178.6	47.9	31.9	25.4	12.4	9.5	8.7	8.0	8.0
85°	13.8	8.7	10.2	14.5	19.6	10.2	0.7	2.2	2.2	2.9	3.6
87.5°	1.5	0.7	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°	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0
2.5°	2613.2	2645.1	2585.6	2587.0	2537.6	2553.6	2495.6	2514.4	2480.3	2506.5	2583.4
5°	1966.3	1973.5	1925.6	1910.4	1917.6	1947.3	1959.0	1906.0	1928.5	1884.2	1881.3
7.5°	1385.4	1394.1	1366.5	1362.9	1415.1	1402.8	1425.3	1370.9	1319.3	1341.8	1300.4
10°	1076.1	1039.7	983.1	967.2	957.0	963.5	963.5	914.2	906.9	887.3	917.0
12.5°	849.6	805.2	751.5	678.9	660.8	659.3	632.4	588.8	575.0	558.4	583.0
15°	617.2	599.0	554.0	513.3	472.0	464.0	420.4	384.8	337.6	331.1	328.9
17.5°	434.2	407.3	406.6	383.4	359.4	343.4	302.8	262.1	244.0	241.8	241.8
20°	325.3	315.9	300.6	297.7	290.4	272.2	236.0	214.2	205.5	206.2	209.1
22.5°	273.7	267.2	253.4	246.9	244.0	228.0	201.2	186.6	182.3	182.3	183.0
25°	244.7	238.9	223.6	213.4	209.8	198.3	177.2	166.3	162.6	162.6	162.6
27.5°	222.9	215.6	199.7	191.0	184.4	171.3	158.3	147.4	143.8	143.8	144.5
30°	207.7	199.7	185.2	173.5	163.3	151.7	140.9	131.4	127.1	126.4	127.1
32.5°	187.3	180.1	165.5	158.3	146.7	132.9	124.2	115.4	111.1	111.8	111.1
35°	146.0	143.8	133.6	135.8	129.3	117.6	109.6	100.2	95.1	94.4	95.8
37.5°	132.9	124.2	112.5	113.3	111.1	106.7	93.6	83.5	79.9	79.9	80.6
40°	122.7	114.0	100.9	94.4	95.1	95.1	81.4	70.4	66.8	66.1	67.5
42.5°	114.0	105.3	90.7	79.9	77.0	80.6	69.0	58.1	54.4	53.0	54.4
45°	108.2	98.7	82.1	69.7	61.0	65.4	56.6	47.9	43.5	43.5	42.8
47.5°	102.4	93.6	75.5	60.3	50.8	48.6	46.4	38.4	34.1	33.4	34.1
50°	97.3	88.6	68.3	52.3	42.8	37.7	37.7	30.5	27.6	26.2	26.9
52.5°	92.2	82.8	61.7	46.4	37.0	30.5	26.9	24.7	22.5	21.8	22.5
55°	85.0	75.5	55.2	39.9	31.9	25.4	21.1	20.4	18.9	17.5	18.9
57.5°	76.3	67.5	48.6	34.1	25.4	19.6	17.5	16.7	15.3	14.5	14.5
59°	71.2	63.2	45.0	29.8	22.5	17.5	16.0	15.3	13.8	12.4	13.1
60°	68.3	61.7	42.8	27.6	20.4	16.0	14.5	13.8	12.4	11.6	12.4
62.5°	60.3	55.2	37.7	22.5	16.0	11.6	10.2	10.9	10.2	9.5	10.2
65°	53.0	48.6	31.9	17.5	12.4	8.0	7.3	9.5	8.7	8.0	8.7
67.5°	47.2	42.1	26.9	13.1	8.7	4.4	5.1	8.0	8.0	7.3	8.0
70°	40.6	36.3	21.8	9.5	4.4	2.2	3.6	5.8	7.3	6.5	7.3
72.5°	33.4	28.3	16.7	6.5	2.2	0.0	2.2	5.1	7.3	6.5	7.3
75°	26.2	21.1	12.4	3.6	0.0	0.0	0.7	4.4	7.3	6.5	7.3
77.5°	18.9	15.3	7.3	0.7	0.0	0.0	0.7	4.4	7.3	6.5	7.3
80°	12.4	10.9	2.9	0.0	0.0	0.0	0.7	4.4	7.3	7.3	8.0
82.5°	8.0	5.8	0.0	0.0	0.0	0.0	1.5	5.8	8.0	8.7	8.7
85°	3.6	0.0	0.0	0.0	0.0	0.0	2.9	7.3	9.5	9.5	9.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	5.1	8.7	10.9	10.9	10.9
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0
2.5°	2596.5	2642.2	2706.8	2806.4	2886.9	3014.0	3111.3	3244.1	3378.5	3419.1	3482.3
5°	1911.1	1969.9	2116.5	2250.1	2334.4	2603.0	2772.9	3040.9	3281.2	3396.7	3522.2
7.5°	1327.3	1397.0	1508.8	1695.4	1872.5	2091.2	2365.6	2672.0	3024.1	3188.9	3366.1
10°	931.5	1018.7	1176.2	1329.5	1552.4	1760.0	2030.9	2369.2	2757.6	2952.2	3174.4
12.5°	588.1	665.8	874.2	1046.3	1324.4	1565.5	1815.2	2121.6	2571.8	2771.4	3004.5
15°	336.1	401.5	498.8	719.6	1028.2	1346.9	1658.4	2014.2	2476.7	2722.8	2974.8
17.5°	250.5	267.9	311.5	436.4	717.4	1089.9	1513.9	1981.5	2541.3	2830.3	3117.8
20°	210.5	222.2	242.5	291.9	457.4	839.4	1373.0	1987.3	2750.4	3113.4	3386.5
22.5°	188.8	196.1	212.7	244.7	312.2	611.4	1208.2	2021.4	3003.8	3461.3	3776.3
25°	165.5	175.0	189.5	217.1	260.0	424.0	1045.5	2097.7	3358.8	3902.7	4198.9
27.5°	147.4	156.1	170.6	196.1	228.0	323.8	856.1	2163.0	3733.5	4347.1	4589.6
30°	129.3	138.0	152.5	172.8	201.9	262.1	652.0	2201.5	4097.3	4680.3	4867.0
32.5°	114.0	121.3	135.1	153.2	177.2	222.2	514.0	2161.5	4375.4	4983.1	5108.0
35°	98.7	107.4	119.1	135.8	156.8	189.5	427.7	2023.6	4614.3	5294.6	5339.6
37.5°	82.8	92.9	105.3	120.5	137.3	174.3	343.4	1871.1	4869.9	5683.1	5609.0
40°	69.7	79.2	90.7	107.4	122.7	159.7	264.3	1708.5	5145.7	6047.6	5903.0
42.5°	56.6	66.8	80.6	95.8	121.3	139.4	204.8	1540.0	5393.4	6364.9	6168.8
45°	45.0	53.7	68.3	87.9	120.5	119.8	158.3	1373.8	5580.0	6591.4	6367.0
47.5°	35.5	42.8	57.4	85.7	111.1	101.6	127.1	1270.7	5776.0	6795.4	6518.8
50°	28.3	35.5	49.4	89.3	97.3	87.1	106.7	1287.3	5965.5	6899.2	6581.2
52.5°	24.0	31.2	42.8	70.4	74.8	76.3	93.6	1364.3	6210.2	7010.4	6705.4
55°	21.1	27.6	36.3	49.4	58.1	68.3	85.7	1420.2	6537.7	7248.5	6979.1
57.5°	16.7	24.0	32.7	42.1	47.9	59.5	79.2	1424.6	6833.9	7554.1	7342.9
59°	15.3	21.8	30.5	39.9	42.8	53.7	74.8	1387.6	6844.8	7600.0	7509.9
60°	13.8	21.1	29.0	37.0	40.6	50.8	71.2	1344.7	6746.0	7527.3	7578.9
62.5°	11.6	18.2	25.4	29.8	34.8	42.1	61.7	1189.3	6267.5	7198.4	7451.1
65°	10.2	16.0	21.8	24.7	29.0	36.3	54.4	951.9	5739.0	6752.6	7085.1
67.5°	9.5	14.5	18.9	21.1	25.4	33.4	48.6	672.4	5054.3	6187.0	6535.5
70°	8.7	13.8	16.7	19.6	22.5	28.3	41.4	392.0	3893.2	5195.1	5563.2
72.5°	8.7	13.1	14.5	16.7	19.6	25.4	38.4	212.0	2661.8	3963.0	4438.5
75°	8.7	12.4	13.1	14.5	17.5	23.3	34.1	111.1	1720.8	2753.3	3398.1
77.5°	8.7	11.6	13.1	13.8	16.7	20.4	29.8	69.7	1146.5	1928.5	2296.6
80°	9.5	11.6	12.4	13.8	16.0	18.9	24.7	46.4	673.8	1160.2	1397.7
82.5°	10.2	11.6	13.1	14.5	16.7	18.2	21.8	29.0	310.8	767.5	868.4
85°	10.9	12.4	13.8	15.3	17.5	18.2	20.4	21.1	50.8	346.3	468.3
87.5°	11.6	13.1	14.5	16.0	18.9	18.9	18.9	18.9	17.5	37.0	94.4
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-SA3B-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0
2.5°	3562.2	3644.2	3701.6	3716.1	3674.7	3655.8	3603.5	3522.2	3472.8	3470.6
5°	3753.9	3946.2	4079.9	4102.4	4022.5	3887.4	3727.0	3520.1	3398.8	3362.5
7.5°	3721.2	4058.1	4273.0	4304.2	4169.9	3912.1	3601.4	3268.1	3136.0	3080.0
10°	3586.8	3997.8	4304.9	4354.3	4175.0	3812.0	3416.9	3045.2	2881.1	2838.3
12.5°	3472.1	3887.4	4160.5	4228.7	4092.9	3730.6	3306.6	2902.2	2726.4	2686.5
15°	3422.0	3756.8	3923.8	3958.6	3936.1	3679.8	3294.9	2880.3	2679.3	2635.7
17.5°	3472.1	3645.6	3666.7	3702.3	3752.4	3674.7	3406.8	2998.7	2781.6	2727.9
20°	3603.5	3549.1	3462.0	3477.2	3591.9	3695.8	3605.7	3260.8	2996.5	2939.2
22.5°	3827.2	3525.1	3327.7	3314.6	3459.8	3766.2	3897.6	3615.9	3309.5	3252.8
25°	4101.7	3585.4	3278.3	3249.9	3408.2	3869.3	4214.9	4050.9	3716.1	3629.7
27.5°	4400.8	3710.3	3278.3	3250.7	3403.9	3960.8	4486.4	4435.6	4137.2	4042.9
30°	4564.9	3813.4	3325.5	3294.2	3457.6	4013.8	4631.7	4777.6	4453.8	4336.9
32.5°	4711.5	3956.4	3417.6	3358.8	3570.2	4092.2	4761.7	5068.0	4705.8	4627.3
35°	4846.6	4109.7	3544.7	3476.5	3718.3	4199.7	4905.4	5373.0	5056.5	4938.1
37.5°	4995.5	4287.6	3743.0	3684.9	3965.9	4408.8	5076.0	5773.8	5401.4	5252.5
40°	5157.4	4493.7	4068.9	4044.3	4359.4	4645.5	5291.7	6201.5	5794.9	5625.7
42.5°	5322.2	4731.2	4468.3	4509.0	4805.2	4977.3	5513.2	6530.4	6117.3	5930.7
45°	5471.8	5034.7	4987.5	5188.6	5325.1	5301.1	5677.2	6762.0	6398.3	6219.6
47.5°	5660.5	5476.9	5615.5	5925.6	5929.2	5653.3	5801.4	6951.6	6640.0	6461.4
50°	5871.9	5998.9	6426.6	6742.4	6657.5	5999.7	5946.7	7175.9	6889.8	6746.8
52.5°	6116.6	6583.4	7175.9	7526.6	7328.3	6377.2	6188.4	7418.4	7286.3	7149.0
55°	6401.2	6982.0	7923.0	8202.6	8002.9	6846.2	6555.8	7747.3	7734.2	7640.6
57.5°	6722.8	7403.2	8355.8	8734.1	8556.2	7396.6	7069.2	8057.4	8008.0	7955.7
59°	6976.9	7619.5	8546.8	8938.8	8831.4	7782.2	7414.1	8250.5	8071.2	7992.7
60°	7130.9	7766.2	8617.1	8966.4	8941.7	8011.6	7632.6	8344.9	8070.5	7961.5
62.5°	7587.6	8022.5	8590.3	8843.7	8940.3	8451.6	8273.7	8448.7	7920.8	7761.1
65°	7750.2	7937.6	8145.2	8114.0	8196.8	8429.1	8683.2	8334.7	7601.4	7374.1
67.5°	7433.6	7006.0	7079.3	6870.9	6830.3	7493.9	8516.9	7777.1	6976.2	6698.1
70°	6266.1	5367.2	5330.2	5426.0	5163.2	6067.2	7647.9	6703.2	5944.5	5629.3
72.5°	4932.3	3793.1	3480.8	3833.7	3825.7	4628.8	6353.3	4756.6	4016.0	3989.1
75°	3878.7	2640.7	2317.7	2375.0	2485.4	3350.8	5060.1	3020.5	2473.0	2253.8
77.5°	2603.7	1871.1	1745.5	1675.1	1794.2	2151.4	3201.3	1638.0	1386.8	1313.5
80°	1500.8	1359.2	1543.7	1401.3	1465.2	1355.6	1592.3	751.5	623.7	675.3
82.5°	976.6	774.0	824.8	612.8	837.9	845.2	511.1	222.2	188.1	199.7
85°	610.7	363.1	204.0	145.2	289.0	531.5	159.7	13.8	16.0	13.8
87.5°	158.3	60.3	25.4	37.7	46.4	41.4	37.0	2.2	0.7	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)