

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: P648274

Luminaire Tested: **GALN-SA2B-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-835-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6672.7 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

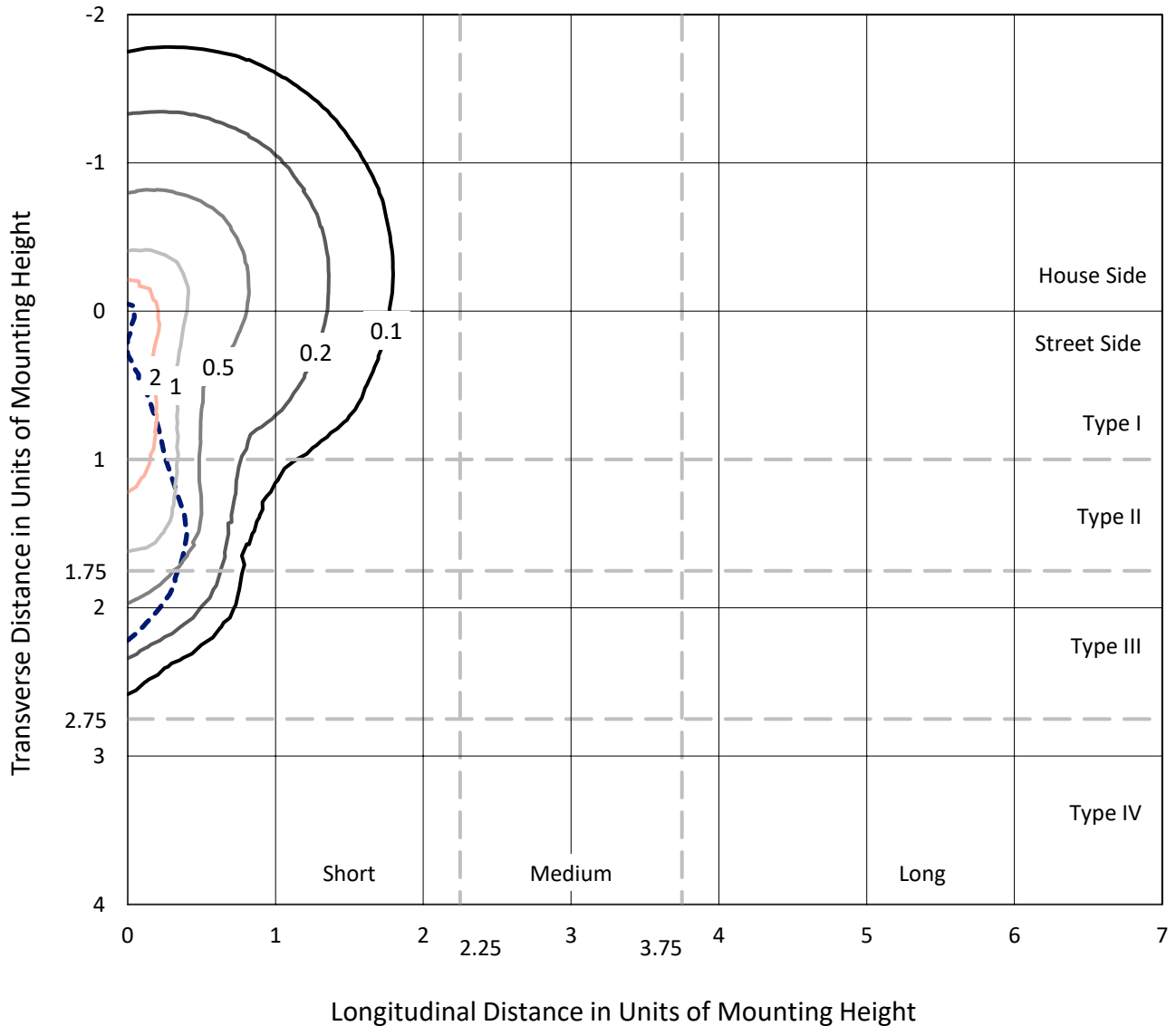
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

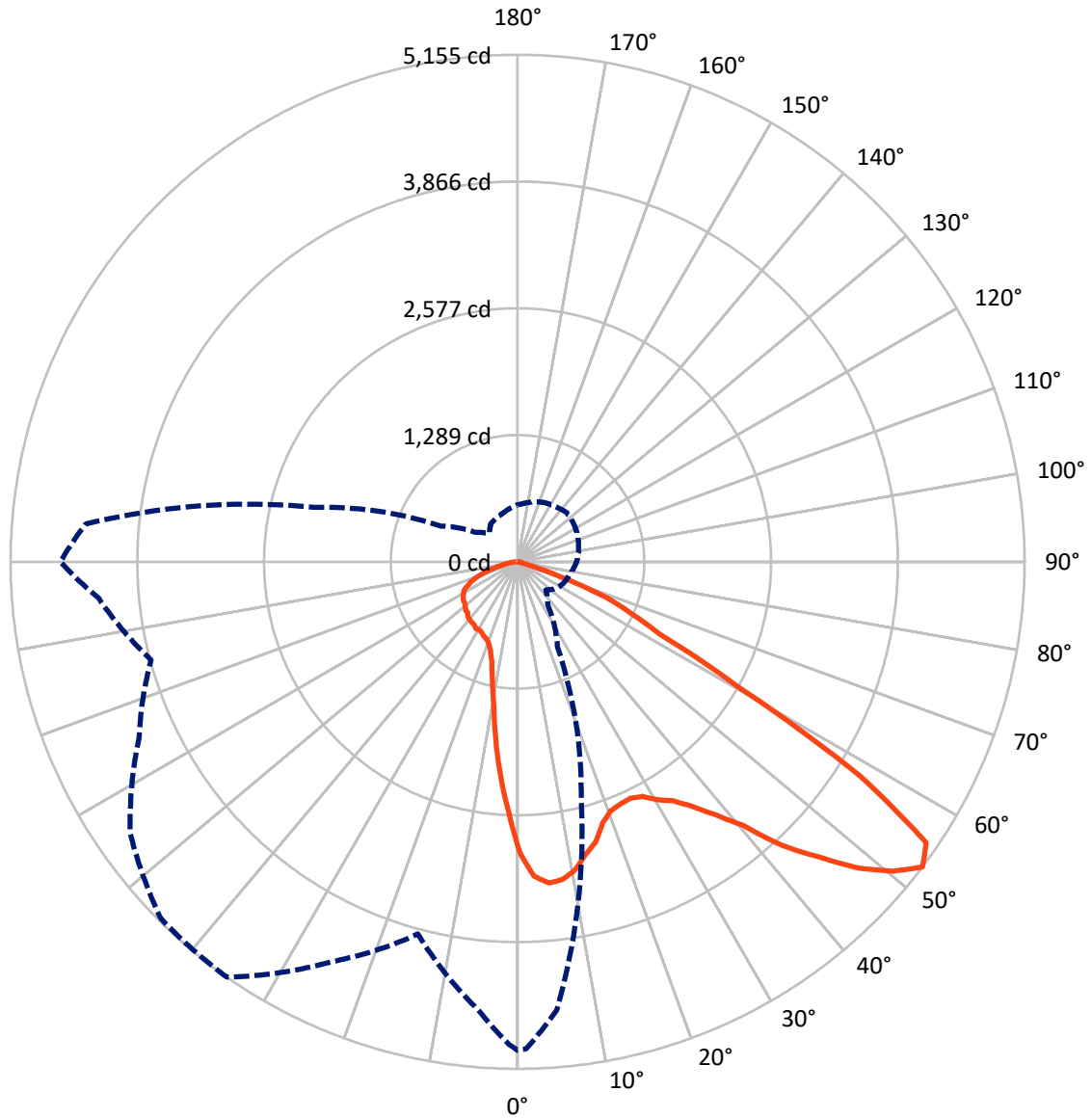
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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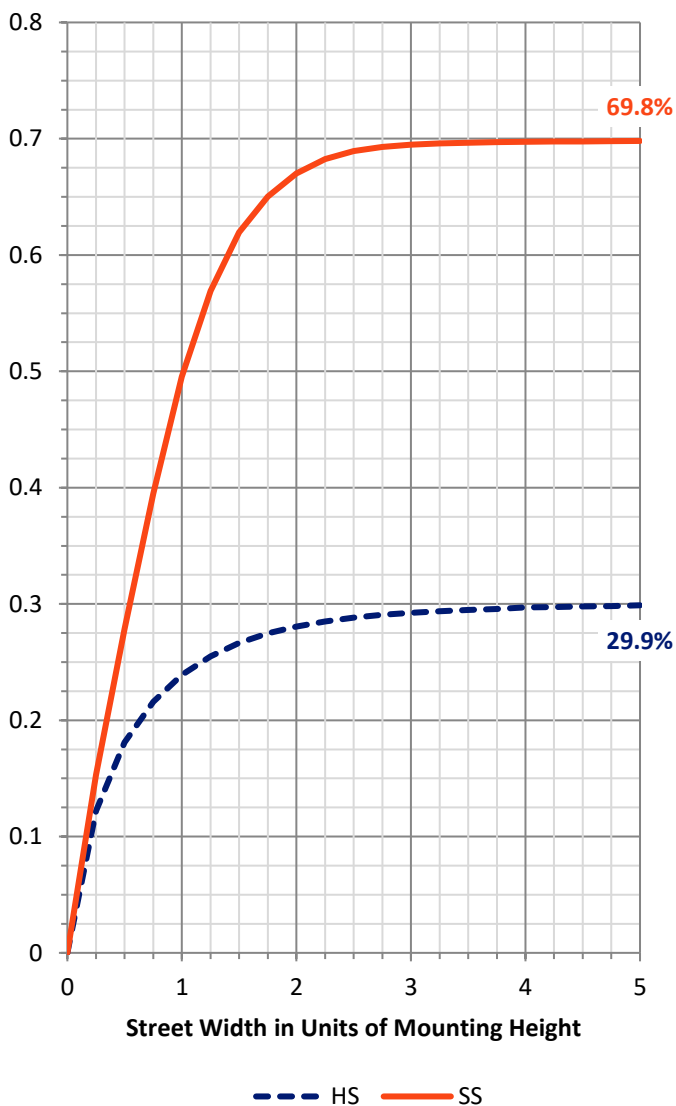
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2011.5	0.0	2011.5
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	4661.2	0.0	4661.2
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	6672.7	0.0	6672.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.9	3.4
10°-20°	489.8	7.3
20°-30°	740.0	11.1
30°-40°	1069.4	16.0
40°-50°	1423.1	21.3
50°-60°	1591.8	23.9
60°-70°	897.1	13.4
70°-80°	200.0	3.0
80°-90°	35.6	0.5
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°	6672.7	100.0
0°-180°	6672.7	100.0

**Coefficient of Utilization**



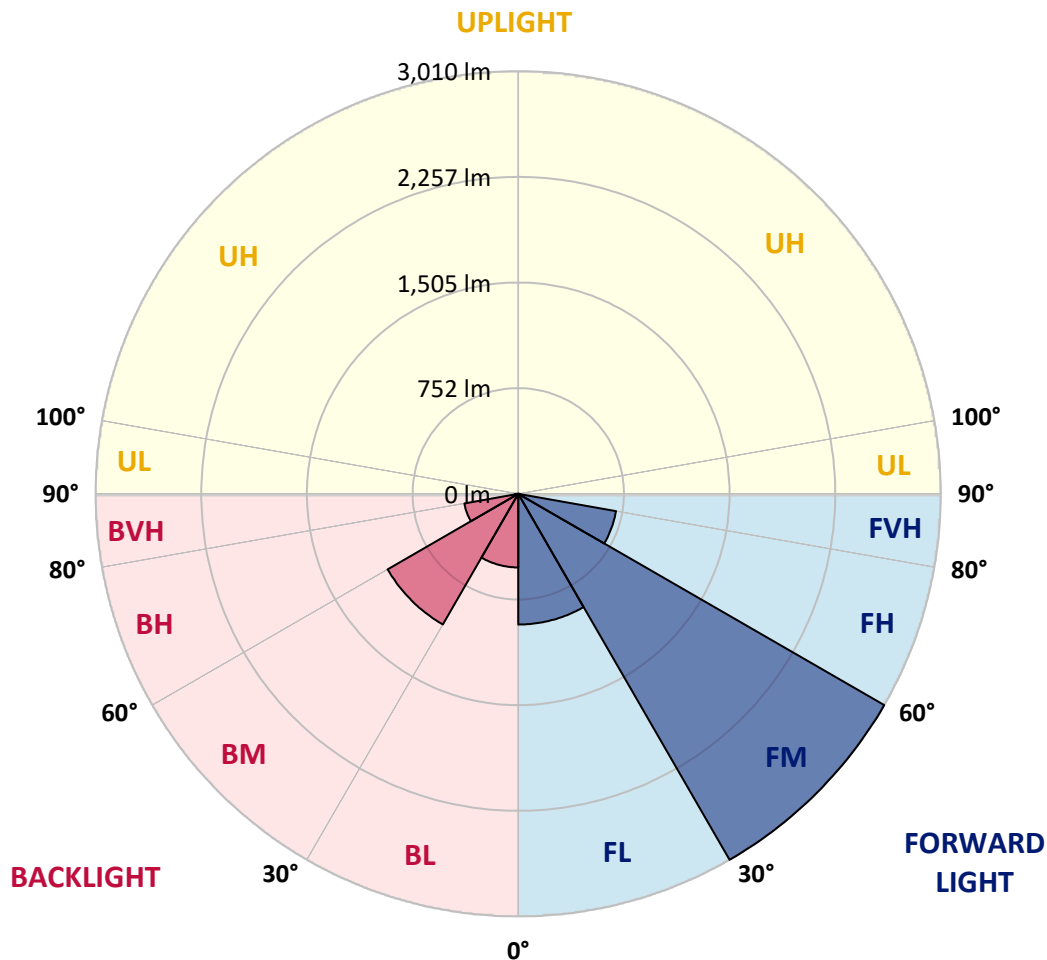
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	931.2	14.0			
FM	(30°-60°)	3009.9	45.1			
FH	(60°-80°)	707.2	10.6			G1/1800
FVH	(80°-90°)	12.9	0.2			G1/100
BL	(0°-30°)	524.6	7.9	B2/1000		
BM	(30°-60°)	1074.4	16.1	B2/2500		
BH	(60°-80°)	389.9	5.8	B1/500		G1/500
BVH	(80°-90°)	22.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4
2.5°	3010.7	3059.1	3006.9	2914.0	2848.2	2788.3	2725.4	2712.9	2630.6	2616.2	2556.2
5°	2839.5	2828.9	2765.1	2643.2	2508.8	2386.9	2296.9	2209.9	2150.9	2082.2	2077.5
7.5°	2631.6	2569.7	2532.9	2348.2	2181.9	1990.4	1908.2	1775.7	1734.1	1672.2	1640.3
10°	2445.9	2400.4	2314.4	2129.7	1897.5	1770.8	1682.8	1611.3	1562.9	1499.1	1418.8
12.5°	2354.0	2335.7	2238.9	1952.6	1780.5	1645.1	1583.2	1513.6	1431.4	1328.8	1289.2
15°	2370.5	2308.6	2235.1	1918.8	1680.9	1550.3	1451.7	1364.6	1259.2	1161.5	1104.5
17.5°	2493.3	2445.9	2298.9	1940.1	1643.2	1454.6	1275.7	1147.0	1052.3	964.3	924.6
20°	2735.1	2666.4	2501.1	1967.2	1561.9	1321.2	1116.1	957.5	855.9	809.5	796.0
22.5°	3003.0	2962.4	2698.3	2028.1	1497.2	1197.4	946.8	788.2	750.5	737.9	763.1
25°	3328.9	3223.5	3004.9	2127.7	1446.8	1091.9	803.7	715.7	696.3	708.9	737.9
27.5°	3576.5	3548.5	3219.6	2221.5	1378.2	965.2	723.4	665.4	671.2	683.8	710.9
30°	3870.5	3728.3	3427.6	2286.4	1316.3	878.1	667.4	651.8	657.6	678.9	692.5
32.5°	4047.5	3994.3	3558.1	2384.0	1244.7	802.7	623.8	609.3	618.0	649.9	681.8
35°	4272.8	4167.4	3719.6	2409.1	1194.4	772.7	592.9	582.2	602.5	624.8	660.5
37.5°	4535.9	4463.3	3943.0	2391.8	1167.4	741.8	566.7	561.9	576.4	607.4	649.0
40°	4691.6	4669.3	4060.1	2402.4	1124.8	714.7	536.7	542.5	572.5	596.7	637.4
42.5°	4841.5	4696.4	4233.2	2398.5	1097.7	678.0	539.6	532.9	556.1	584.1	622.9
45°	4874.4	4730.3	4273.8	2371.5	1064.8	642.2	517.4	520.3	548.3	583.2	608.3
47.5°	4853.1	4746.8	4349.3	2363.7	1033.9	617.0	484.5	519.4	535.8	563.8	599.6
50°	4838.6	4832.8	4413.1	2400.4	992.3	577.4	444.9	506.8	523.2	551.3	590.0
52.5°	4966.3	4953.7	4572.6	2497.1	959.4	534.9	404.3	474.9	514.5	541.6	579.3
55°	5043.7	4988.5	4846.4	2616.2	904.3	478.7	376.2	435.2	493.2	517.4	556.1
57.5°	4536.9	4499.1	4384.1	2442.0	811.4	405.2	341.4	394.6	464.2	502.0	541.6
60°	3774.8	3715.8	3420.8	2075.5	598.7	315.3	320.1	362.7	456.5	471.0	517.4
62.5°	3559.1	3413.0	3011.7	1670.3	459.4	270.8	287.2	333.6	415.9	440.0	486.5
65°	2824.0	2715.8	2154.8	1206.1	307.6	235.0	262.1	300.8	358.8	406.2	448.7
67.5°	1767.9	1664.4	1149.9	570.7	214.7	201.2	234.0	274.7	322.0	364.6	412.0
70°	923.6	810.5	531.0	206.0	148.0	164.4	195.4	234.0	280.5	315.3	352.0
72.5°	344.3	279.5	173.1	88.9	102.5	125.7	158.6	186.7	219.6	262.1	282.4
75°	53.2	45.5	44.5	54.2	69.6	90.9	113.1	141.2	170.2	197.3	210.9
77.5°	25.1	24.2	27.1	35.8	46.4	64.8	82.2	109.3	132.5	149.9	157.6
80°	16.4	15.5	17.4	24.2	34.8	48.4	65.8	84.2	105.4	120.0	118.0
82.5°	9.7	10.6	10.6	16.4	24.2	34.8	47.4	63.8	78.3	90.9	83.2
85°	5.8	4.9	4.9	9.7	16.4	28.0	39.6	27.1	28.0	28.0	31.9
87.5°	2.0	2.0	2.0	0.9	2.0	2.0	2.9	4.9	5.8	6.7	8.7
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°	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4
2.5°	2554.2	2584.2	2573.6	2535.8	2564.9	2569.7	2550.4	2617.1	2629.6	2609.3	2615.1
5°	2070.6	2078.4	2095.8	2132.6	2158.7	2189.6	2189.6	2191.5	2165.5	2231.2	2211.9
7.5°	1613.2	1618.1	1638.3	1716.6	1739.0	1797.9	1823.1	1805.7	1753.5	1731.2	1749.5
10°	1392.7	1364.6	1357.9	1367.5	1417.9	1443.0	1464.3	1458.4	1449.7	1432.3	1413.0
12.5°	1245.7	1225.4	1209.0	1185.7	1188.6	1212.8	1229.2	1215.7	1219.6	1223.4	1229.2
15°	1086.1	1071.6	1062.9	1028.1	1024.2	1040.7	1046.5	1054.2	1068.7	1069.7	1062.9
17.5°	916.8	904.3	923.6	943.0	929.4	930.4	941.0	947.8	943.9	926.5	917.8
20°	800.8	814.3	833.7	852.1	866.5	875.2	879.2	868.5	855.9	820.1	819.2
22.5°	766.9	784.3	800.8	828.8	842.4	864.6	844.3	820.1	802.7	785.3	765.0
25°	741.8	756.3	789.2	799.8	825.9	844.3	829.8	805.6	775.6	750.5	735.0
27.5°	723.4	739.9	761.2	790.1	810.5	821.1	806.6	796.9	766.0	736.0	713.8
30°	711.8	729.2	767.9	792.1	809.5	818.2	793.0	781.4	759.2	734.1	714.7
32.5°	704.1	719.6	752.5	783.4	795.0	795.0	798.9	785.3	754.3	711.8	695.4
35°	678.9	700.2	727.3	763.1	784.3	796.9	777.6	762.1	741.8	698.3	668.3
37.5°	664.5	678.9	713.8	747.6	766.0	779.6	771.8	744.7	717.6	681.8	657.6
40°	649.0	672.1	703.1	735.0	755.4	768.9	763.1	731.2	698.3	664.5	648.0
42.5°	638.3	653.8	685.7	721.5	745.7	771.8	754.3	714.7	691.5	645.1	626.7
45°	629.6	654.7	688.6	703.1	728.3	755.4	724.4	700.2	673.1	639.3	623.8
47.5°	619.0	642.2	664.5	703.1	714.7	727.3	721.5	682.8	659.6	622.9	612.2
50°	615.1	623.8	664.5	685.7	702.1	714.7	699.2	670.2	648.0	610.3	587.1
52.5°	599.6	616.1	642.2	670.2	690.5	706.0	680.9	662.5	632.5	592.9	578.3
55°	580.3	590.0	636.3	665.4	676.0	686.7	677.0	647.0	616.1	575.4	560.9
57.5°	555.1	577.4	615.1	655.8	669.2	675.1	659.6	635.4	596.7	560.9	537.8
60°	529.0	552.2	593.8	626.7	640.3	661.6	638.3	623.8	579.3	539.6	514.5
62.5°	502.9	529.0	560.0	601.6	613.2	621.9	616.1	595.8	560.0	515.5	484.5
65°	472.0	491.3	530.0	551.3	559.0	579.3	559.0	551.3	519.4	476.8	450.7
67.5°	425.6	442.0	475.8	496.1	502.0	510.7	509.7	501.0	465.2	436.2	413.0
70°	372.3	386.9	408.1	432.3	435.2	445.8	436.2	434.3	411.1	371.4	358.8
72.5°	298.9	312.4	340.4	351.1	352.0	355.9	351.1	344.3	338.5	296.9	284.3
75°	229.2	236.9	250.5	260.2	260.2	265.0	262.1	255.3	239.8	213.8	201.2
77.5°	159.6	167.3	184.7	190.5	189.6	191.5	182.8	176.0	152.8	139.3	128.6
80°	116.0	120.9	129.6	133.5	134.4	137.3	126.7	120.9	107.3	91.8	87.1
82.5°	84.2	87.1	88.0	92.9	92.9	88.0	85.1	79.3	69.6	60.0	56.1
85°	34.8	35.8	36.7	42.5	43.5	52.2	48.4	45.5	39.6	33.8	30.9
87.5°	8.7	9.7	12.6	10.6	12.6	12.6	13.5	15.5	15.5	12.6	12.6
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°	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4
2.5°	2637.4	2645.1	2743.8	2756.4	2804.7	2854.0	2953.6	3025.2	3083.2	3121.0	3131.6
5°	2232.2	2281.5	2326.9	2400.4	2467.2	2562.0	2671.3	2806.7	2976.9	3063.9	3098.7
7.5°	1747.7	1805.7	1871.4	1943.0	2040.7	2210.9	2356.9	2513.6	2731.2	2821.1	2957.5
10°	1426.5	1491.3	1578.4	1633.5	1751.5	1914.0	2084.2	2265.1	2473.0	2602.6	2760.2
12.5°	1261.2	1314.3	1394.6	1510.6	1598.7	1704.1	1830.8	2059.1	2356.9	2479.8	2588.0
15°	1078.3	1137.4	1230.2	1358.8	1464.3	1590.0	1732.2	1980.7	2297.9	2487.5	2579.4
17.5°	927.5	970.1	1067.7	1179.0	1299.9	1437.2	1641.2	1976.8	2359.8	2602.6	2752.5
20°	823.0	828.8	882.0	976.8	1141.2	1320.1	1585.2	1957.5	2558.1	2800.9	2990.4
22.5°	757.2	751.4	752.5	832.7	947.8	1205.0	1497.2	2023.3	2783.4	3116.1	3243.8
25°	724.4	708.9	699.2	716.7	821.1	1068.7	1430.4	2110.3	3026.2	3376.3	3533.0
27.5°	707.0	679.9	660.5	663.4	739.9	1000.0	1388.8	2148.0	3267.0	3739.0	3794.1
30°	700.2	666.3	638.3	628.7	678.9	904.3	1299.9	2212.8	3482.7	3938.2	3985.6
32.5°	676.0	634.5	607.4	598.7	619.0	820.1	1236.0	2259.3	3673.2	4154.8	4138.4
35°	648.0	613.2	579.3	562.9	577.4	766.0	1184.8	2237.0	3897.6	4323.1	4314.4
37.5°	645.1	599.6	571.6	544.5	543.6	699.2	1115.1	2258.3	4040.7	4624.9	4505.9
40°	619.9	590.9	554.2	531.9	519.4	665.4	1047.4	2208.0	4250.6	4746.8	4629.7
42.5°	620.9	577.4	545.4	519.4	506.8	616.1	1001.0	2194.4	4324.1	4945.0	4687.7
45°	605.4	562.9	535.8	504.9	498.1	578.3	956.5	2131.6	4453.7	4954.7	4615.2
47.5°	590.0	552.2	523.2	486.5	471.0	564.8	921.7	2079.3	4386.0	4863.8	4514.6
50°	579.3	535.8	508.7	482.6	439.1	541.6	876.3	2066.8	4291.2	4740.9	4328.0
52.5°	560.9	522.3	494.2	473.9	404.3	520.3	858.8	2140.3	4407.3	4649.1	4273.8
55°	543.6	503.9	468.1	428.5	375.2	464.2	810.5	2208.9	4576.6	4860.9	4519.5
57.5°	525.2	487.4	448.7	401.4	347.2	406.2	760.2	2221.5	4259.3	4492.4	4290.3
60°	501.0	452.7	423.6	361.7	317.2	336.5	602.5	1958.4	3303.8	3751.6	3758.3
62.5°	473.9	421.6	396.5	324.0	286.3	290.2	491.3	1646.1	2680.0	3105.5	3290.2
65°	438.1	387.8	357.8	299.8	264.0	251.4	359.8	1206.1	2035.9	2519.4	2729.3
67.5°	391.7	344.3	306.6	261.1	236.0	215.6	245.6	678.9	1202.1	1691.5	1755.3
70°	342.4	301.8	262.1	224.4	196.3	181.8	179.9	300.8	574.5	910.1	1035.8
72.5°	269.8	240.9	208.9	180.9	162.5	141.2	128.6	124.7	194.4	370.4	511.6
75°	193.4	169.3	150.9	132.5	118.9	107.3	97.7	88.9	81.3	92.9	127.6
77.5°	121.8	113.1	98.7	93.8	86.1	83.2	79.3	74.5	68.7	64.8	64.8
80°	82.2	76.4	71.6	70.6	67.7	66.7	67.7	62.9	57.1	52.2	54.2
82.5°	55.1	54.2	53.2	52.2	53.2	54.2	56.1	55.1	50.3	47.4	48.4
85°	32.9	34.8	36.7	38.7	42.5	37.7	30.9	26.1	23.2	21.3	20.3
87.5°	12.6	17.4	15.5	14.5	15.5	14.5	13.5	12.6	10.6	9.7	9.7
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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CATALOG NUMBER: GALN-SA2B-835-U-SLR-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4	2961.4
2.5°	3202.2	3221.6	3238.0	3234.1	3200.3	3154.9	3136.5	3042.7	3023.3	3010.7
5°	3245.8	3357.9	3382.1	3367.6	3279.6	3168.3	3060.0	2922.7	2842.4	2839.5
7.5°	3165.4	3303.8	3347.3	3380.1	3263.2	3069.8	2884.0	2678.0	2627.7	2631.6
10°	2961.4	3181.9	3289.2	3323.1	3188.7	3021.4	2764.1	2555.2	2447.8	2445.9
12.5°	2848.2	3021.4	3051.4	3098.7	3059.1	2889.8	2694.5	2460.4	2356.0	2354.0
15°	2747.6	2861.8	2870.5	2937.2	2958.5	2844.4	2712.9	2463.3	2379.1	2370.5
17.5°	2835.6	2756.4	2723.5	2732.2	2795.1	2836.7	2819.2	2627.7	2541.6	2493.3
20°	2894.7	2717.7	2618.0	2627.7	2702.2	2854.0	2977.8	2865.6	2729.3	2735.1
22.5°	3052.3	2723.5	2567.8	2557.1	2675.1	2944.9	3156.7	3166.5	3034.9	3003.0
25°	3288.3	2790.2	2552.3	2549.4	2662.5	3042.7	3365.6	3522.3	3387.9	3328.9
27.5°	3477.9	2894.7	2600.7	2610.3	2702.2	3122.0	3543.6	3751.6	3649.0	3576.5
30°	3644.2	3003.0	2668.4	2623.8	2808.6	3163.6	3620.0	4012.7	3930.5	3870.5
32.5°	3712.8	3156.7	2775.7	2702.2	2896.6	3213.8	3778.6	4266.1	4195.5	4047.5
35°	3828.9	3242.9	2833.8	2828.0	3050.4	3334.7	3853.1	4433.4	4404.4	4272.8
37.5°	3921.7	3329.9	3039.8	2975.9	3261.2	3537.8	3973.0	4664.6	4597.8	4535.9
40°	3993.4	3485.6	3232.2	3316.3	3520.4	3722.5	4083.3	4679.1	4871.5	4691.6
42.5°	3927.6	3624.8	3548.5	3749.6	3943.0	3933.4	4095.9	4791.3	4935.3	4841.5
45°	3911.2	3860.8	4048.5	4231.3	4275.7	4108.4	4005.9	4667.5	4916.0	4874.4
47.5°	3871.5	4093.0	4419.9	4717.7	4650.0	4225.5	3898.6	4645.2	4927.6	4853.1
50°	3857.9	4143.2	4694.6	4984.7	4944.0	4327.0	3848.3	4502.1	4845.4	4838.6
52.5°	3857.0	4246.8	4808.6	5129.7	5154.9	4487.5	3917.0	4574.6	4909.3	4966.3
55°	3900.5	4213.9	4794.2	5049.5	5039.8	4416.0	3924.7	4623.0	4987.6	5043.7
57.5°	3679.0	3774.8	3956.6	4158.7	4106.5	3657.7	3504.9	4273.8	4577.5	4536.9
60°	3177.1	2877.3	2672.2	2662.5	2561.0	2420.8	2868.5	3814.4	3814.4	3774.8
62.5°	2782.5	1888.8	1622.8	1547.4	1619.9	1781.5	2767.0	3709.9	3604.5	3559.1
65°	2433.3	1442.1	1173.2	1151.9	1277.6	1521.3	2502.0	3160.7	2974.9	2824.0
67.5°	1565.8	1056.1	872.3	834.7	986.5	1117.0	1665.4	1944.0	1827.0	1767.9
70°	1009.7	687.6	485.5	455.5	514.5	688.6	1063.9	1133.5	963.2	923.6
72.5°	477.8	296.9	170.2	140.2	157.6	263.1	420.7	452.7	376.2	344.3
75°	151.8	109.3	69.6	60.0	57.1	67.7	96.7	74.5	54.2	53.2
77.5°	67.7	64.8	55.1	46.4	40.6	33.8	28.0	23.2	24.2	25.1
80°	56.1	51.3	45.5	40.6	33.8	26.1	20.3	15.5	15.5	16.4
82.5°	49.3	44.5	39.6	33.8	29.0	21.3	15.5	10.6	9.7	9.7
85°	21.3	25.1	27.1	29.0	23.2	17.4	10.6	6.7	5.8	5.8
87.5°	8.7	7.8	6.7	5.8	4.9	4.9	3.8	2.9	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)