

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: P647829

Luminaire Tested: **GALN-SA3A-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-835-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5909.3 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

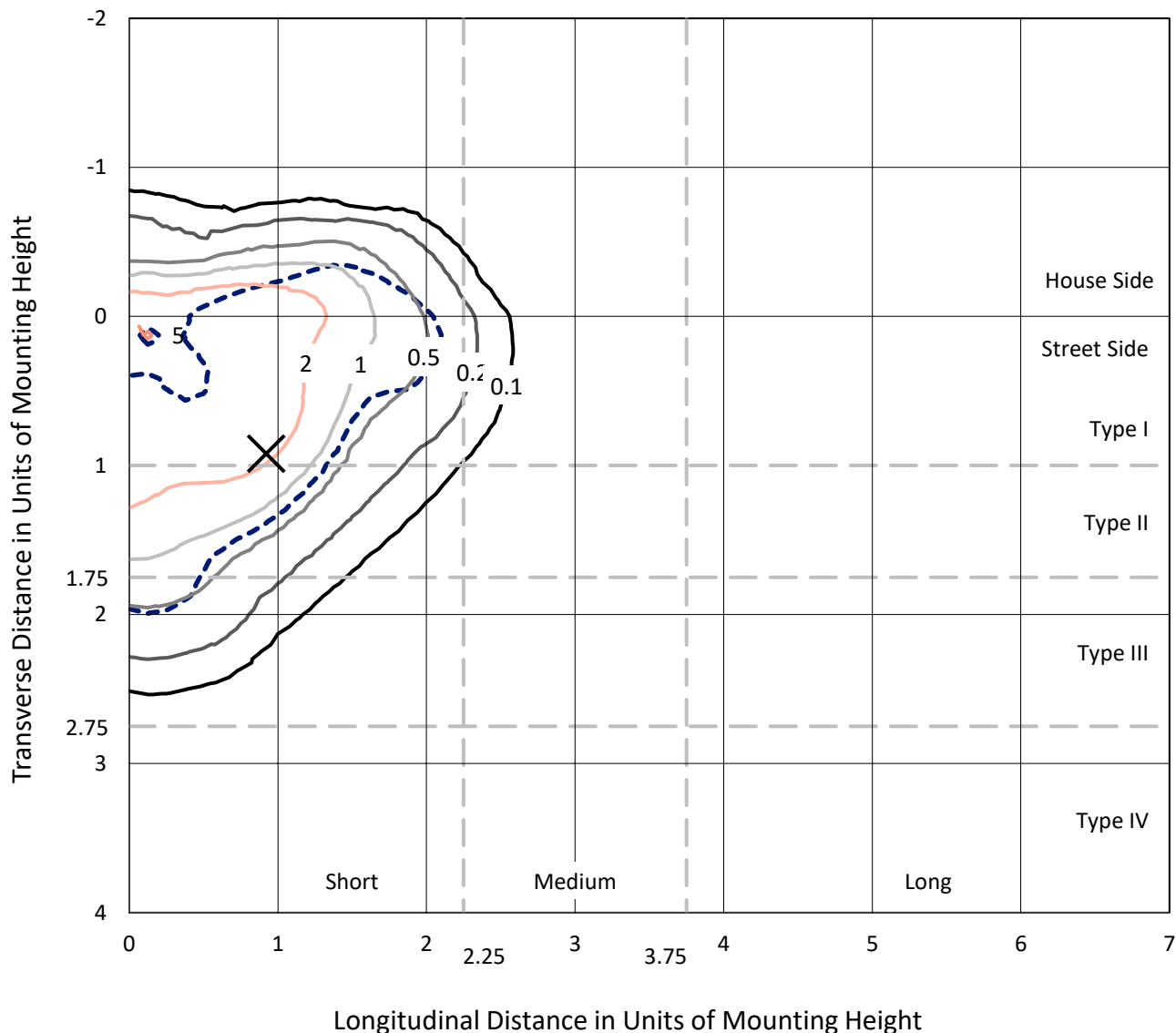
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

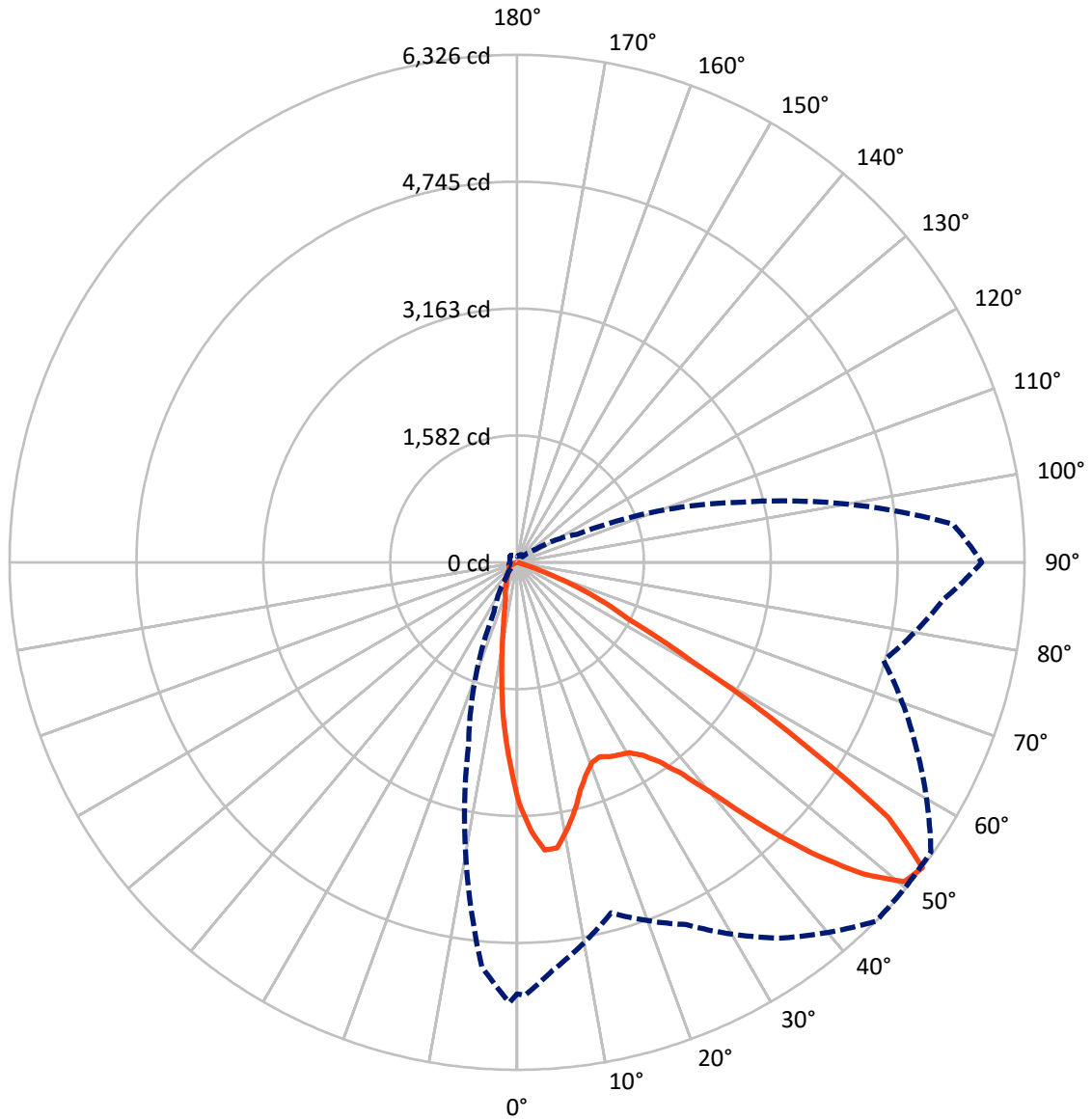
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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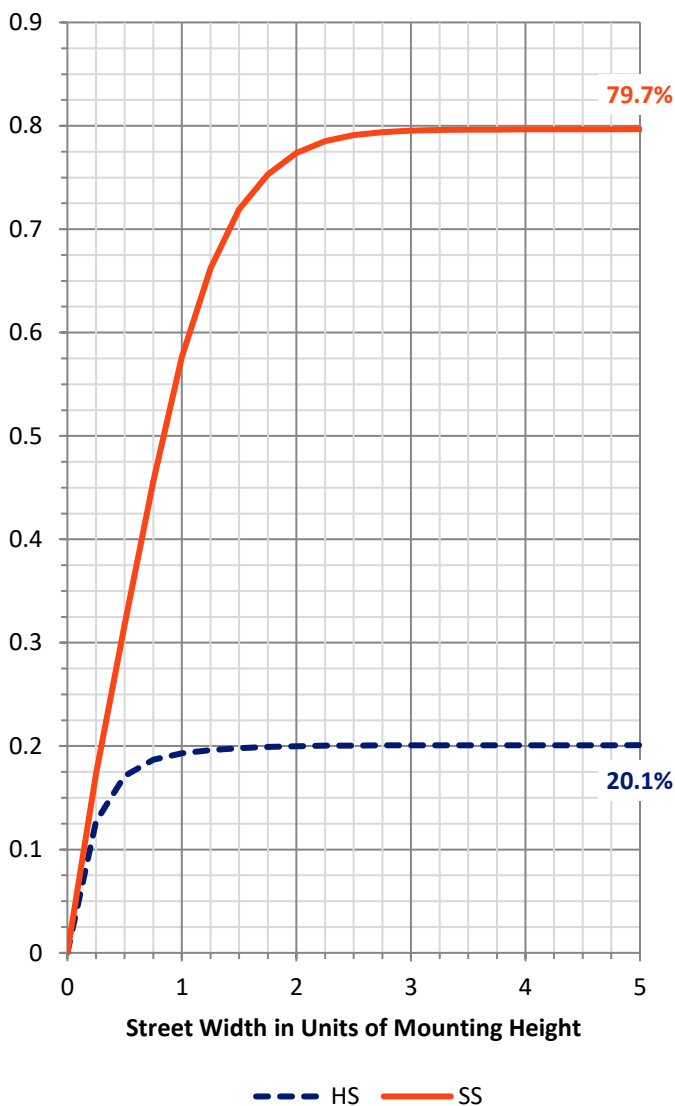
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1199.3	0.0	1199.3
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	4710.0	0.0	4710.0
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	5909.3	0.0	5909.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.5	3.7
10°-20°	431.1	7.3
20°-30°	656.1	11.1
30°-40°	980.6	16.6
40°-50°	1396.5	23.6
50°-60°	1501.2	25.4
60°-70°	665.2	11.3
70°-80°	53.8	0.9
80°-90°	6.3	0.1
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°	5909.3	100.0
0°-180°	5909.3	100.0

**Coefficient of Utilization**



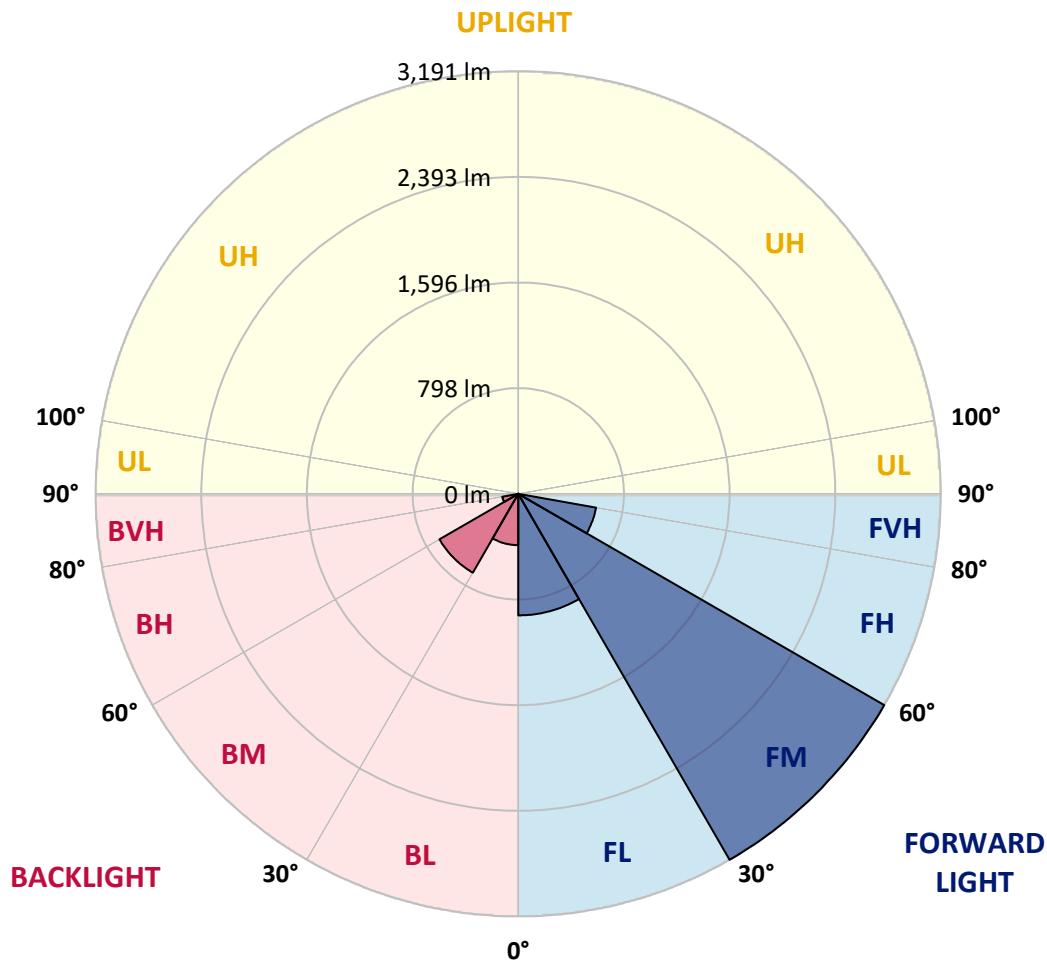
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.8	15.5			
FM (30°-60°)	3191.2	54.0			
FH (60°-80°)	596.3	10.1			G0/660
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	387.9	6.6	B1/500		
BM (30°-60°)	687.1	11.6	B1/1000		
BH (60°-80°)	122.7	2.1	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3
2.5°	3170.6	3179.9	3231.0	3295.0	3328.7	3405.4	3351.9	3365.9	3336.8	3234.6	3154.4
5°	3074.1	3073.0	3138.1	3296.1	3446.1	3598.4	3603.0	3521.6	3378.6	3221.7	2997.5
7.5°	2783.6	2828.9	2896.3	3148.5	3426.3	3540.3	3594.8	3499.5	3279.9	3055.6	2812.7
10°	2563.9	2587.2	2701.1	3005.6	3209.0	3361.3	3394.9	3340.4	3171.8	2891.7	2619.7
12.5°	2437.2	2448.8	2582.5	2838.2	3053.2	3166.0	3182.3	3207.8	3087.0	2824.3	2497.7
15°	2438.4	2447.7	2627.8	2841.7	2926.5	2896.3	2949.8	2948.6	3000.9	2811.5	2600.0
17.5°	2613.9	2624.4	2787.1	2892.9	2855.7	2784.7	2781.3	2834.8	2945.2	2970.7	2754.5
20°	2916.1	2940.5	3060.2	3054.4	2845.2	2702.2	2662.7	2703.4	2960.3	3105.5	3066.0
22.5°	3322.9	3356.6	3440.3	3279.9	2892.9	2646.5	2633.7	2712.7	3060.2	3406.6	3419.4
25°	3794.7	3851.7	3892.4	3686.7	3062.5	2742.9	2682.5	2818.5	3195.0	3733.2	3869.1
27.5°	4107.4	4166.7	4157.4	3863.3	3176.5	2768.5	2717.3	2844.0	3312.4	3811.0	4103.9
30°	4351.4	4387.5	4452.6	3958.6	3290.3	2840.6	2753.3	2952.1	3350.8	3945.9	4387.5
32.5°	4636.2	4660.7	4665.3	4127.2	3465.9	2931.2	2864.9	3087.0	3520.4	4074.9	4638.6
35°	4923.3	4959.4	4883.8	4335.2	3573.9	3099.7	3050.9	3320.5	3656.5	4208.5	4915.2
37.5°	5234.8	5253.4	5079.1	4421.2	3728.5	3374.0	3347.3	3572.8	3892.4	4450.3	5222.0
40°	5496.3	5513.7	5287.1	4527.0	3891.2	3757.5	3826.1	4053.9	4213.2	4607.2	5375.5
42.5°	5641.6	5682.2	5356.8	4468.9	4217.8	4192.3	4496.8	4576.9	4585.1	4651.3	5512.6
45°	5681.1	5662.5	5241.8	4516.5	4503.7	4907.1	5183.6	5289.4	4954.7	4732.7	5547.4
47.5°	5498.6	5523.0	5072.0	4474.7	4879.1	5448.7	5806.6	6003.0	5230.1	4661.8	5461.4
50°	5351.0	5319.6	5017.5	4444.5	4980.3	5704.3	6256.4	6300.6	5483.5	4749.0	5367.3
52.5°	5380.1	5399.8	5104.6	4524.6	4982.6	5719.4	6326.2	6295.9	5491.6	4729.2	5333.6
55°	5441.7	5354.5	5067.4	4348.0	4649.0	5297.5	5614.8	5568.4	5068.6	4518.8	5251.0
57.5°	4695.5	4830.3	4659.5	3882.0	3815.7	3991.2	3985.4	4128.3	3780.8	3888.9	4780.4
60°	3811.0	3834.3	3898.2	3320.5	2640.7	2580.2	2496.5	2405.8	2544.2	3325.2	4348.0
62.5°	3351.9	3324.1	3551.8	3020.7	1864.2	1560.9	1547.0	1602.7	1963.1	3171.8	4078.3
65°	2436.1	2470.9	2636.0	2344.3	1399.4	1191.3	1170.4	1335.4	1588.8	2541.9	3112.5
67.5°	1487.7	1555.1	1570.2	1445.8	949.5	754.3	724.1	874.0	1147.2	1644.6	1824.7
70°	686.9	768.3	844.9	789.2	549.7	310.3	292.9	367.3	578.8	946.1	968.2
72.5°	208.0	209.2	292.9	305.7	177.8	69.8	61.6	81.4	196.5	312.7	328.9
75°	15.1	16.3	39.5	45.3	33.7	17.5	18.6	22.1	41.8	69.8	52.3
77.5°	1.2	1.2	1.2	5.8	10.5	11.6	15.1	17.5	22.1	25.6	23.3
80°	1.2	0.0	1.2	4.6	8.1	11.6	13.9	16.3	17.5	19.7	17.5
82.5°	0.0	0.0	0.0	3.5	8.1	11.6	12.8	17.5	19.7	23.3	19.7
85°	0.0	0.0	0.0	3.5	8.1	12.8	11.6	5.8	0.0	0.0	0.0
87.5°	0.0	0.0	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°	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3
2.5°	3168.3	3123.0	3019.6	2967.3	2844.0	2826.6	2705.7	2686.0	2645.3	2623.2	2569.7
5°	2898.7	2844.0	2675.5	2533.7	2368.7	2253.6	2165.3	2085.1	2038.6	1995.6	2015.4
7.5°	2679.0	2519.8	2332.6	2095.5	1905.0	1781.7	1646.9	1536.5	1471.4	1427.3	1437.7
10°	2448.8	2345.4	2085.1	1818.9	1588.8	1501.6	1395.9	1311.1	1219.2	1140.2	1103.0
12.5°	2376.8	2223.4	1896.8	1626.0	1451.7	1366.8	1245.9	1148.3	1030.9	934.4	900.8
15°	2389.6	2242.0	1845.7	1556.3	1350.5	1204.1	1059.9	939.1	810.1	742.7	707.8
17.5°	2597.6	2342.0	1879.4	1483.0	1209.9	1006.5	828.6	675.3	578.8	509.0	494.0
20°	2853.3	2558.1	1951.4	1429.6	1094.9	800.8	605.6	473.0	392.8	381.2	377.7
22.5°	3227.6	2911.4	2106.0	1393.5	954.2	624.1	414.9	344.1	322.0	319.6	320.8
25°	3750.6	3354.3	2274.5	1363.4	848.5	481.2	339.4	291.7	284.8	281.3	287.0
27.5°	3977.2	3621.6	2364.0	1298.2	752.0	433.5	334.7	289.4	269.7	263.8	267.3
30°	4257.3	3799.4	2504.7	1186.6	610.2	356.8	312.7	315.0	305.7	276.6	267.3
32.5°	4629.3	4021.4	2575.5	1107.6	545.1	295.2	228.9	210.4	234.7	239.4	247.6
35°	4867.5	4246.9	2611.6	1061.1	511.4	252.2	194.1	176.6	170.9	172.0	176.6
37.5°	5310.3	4551.4	2656.9	1012.3	485.9	219.6	175.5	159.3	151.1	151.1	155.7
40°	5575.4	4793.1	2718.5	985.6	460.2	199.9	159.3	145.2	138.3	138.3	140.6
42.5°	5641.6	4912.9	2697.6	976.3	431.2	195.3	145.2	134.8	126.7	125.5	124.3
45°	5760.1	5095.3	2701.1	965.8	401.0	177.8	137.2	125.5	113.9	112.8	111.6
47.5°	5890.3	5226.7	2708.1	925.2	371.9	148.8	143.0	116.2	102.3	100.0	100.0
50°	5778.7	5331.3	2768.5	884.5	334.7	120.9	140.6	109.2	90.7	87.1	88.3
52.5°	5792.6	5454.5	2896.3	827.6	288.2	96.5	113.9	103.4	82.5	76.7	77.9
55°	5569.6	5324.3	2913.8	767.1	225.5	74.4	87.1	90.7	69.8	67.4	67.4
57.5°	4794.3	4508.4	2570.9	621.8	148.8	61.6	62.8	79.0	60.4	58.1	59.3
60°	4102.8	3619.3	2068.8	410.3	92.9	48.8	45.3	80.2	53.5	52.3	55.7
62.5°	3740.2	2974.2	1569.1	254.6	63.9	37.2	31.4	65.1	46.5	46.5	51.1
65°	2702.2	1997.9	912.4	133.7	45.3	29.0	23.3	37.2	38.4	39.5	41.8
67.5°	1673.7	1008.8	384.7	65.1	30.2	19.7	15.1	23.3	25.6	25.6	27.9
70°	826.4	402.1	127.9	37.2	23.3	16.3	10.5	12.8	12.8	11.6	12.8
72.5°	255.7	120.9	32.6	23.3	16.3	10.5	5.8	4.6	2.3	0.0	1.2
75°	29.0	23.3	20.9	16.3	10.5	4.6	1.2	0.0	0.0	0.0	0.0
77.5°	17.5	19.7	19.7	16.3	10.5	3.5	0.0	0.0	0.0	0.0	0.0
80°	13.9	15.1	16.3	15.1	9.3	4.6	0.0	0.0	0.0	0.0	0.0
82.5°	17.5	19.7	22.1	19.7	12.8	5.8	2.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.5	1.2	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3
2.5°	2547.6	2522.1	2558.1	2504.7	2503.5	2504.7	2489.5	2475.6	2497.7	2557.0	2562.8
5°	1944.4	1999.1	2016.5	2073.5	2042.1	1995.6	2004.9	1973.5	2050.2	2084.0	2057.2
7.5°	1415.7	1412.1	1529.5	1536.5	1551.6	1552.8	1550.4	1488.9	1426.1	1440.0	1481.9
10°	1098.3	1039.0	1096.0	1090.2	1127.4	1116.9	1132.1	1065.8	1087.9	1087.9	1114.6
12.5°	895.0	832.2	821.7	806.6	821.7	827.6	833.3	820.6	857.8	875.2	893.8
15°	683.4	648.6	639.2	610.2	614.8	631.1	645.0	650.8	639.2	665.9	668.3
17.5°	496.3	495.1	501.0	499.8	495.1	491.6	490.5	475.4	470.7	473.0	482.3
20°	376.5	385.9	405.6	425.4	435.8	423.1	405.6	380.1	369.6	371.9	373.1
22.5°	322.0	335.9	362.6	384.7	395.2	371.9	340.5	318.4	313.8	312.7	311.5
25°	291.7	308.0	327.8	334.7	333.6	319.6	296.4	287.0	284.8	282.4	271.9
27.5°	275.5	281.3	284.8	292.9	296.4	287.0	281.3	267.3	265.0	265.0	258.0
30°	266.1	262.7	267.3	261.5	266.1	259.2	260.3	260.3	254.6	256.8	256.8
32.5°	247.6	248.8	248.8	237.1	240.6	232.5	240.6	247.6	248.8	249.9	259.2
35°	181.3	202.2	212.7	212.7	216.2	210.4	209.2	201.1	190.6	180.2	175.5
37.5°	159.3	167.3	181.3	189.5	195.3	190.6	180.2	167.3	161.5	156.9	152.3
40°	141.8	148.8	158.1	167.3	179.0	173.2	156.9	151.1	144.2	144.2	139.5
42.5°	127.9	131.3	137.2	151.1	163.9	152.3	140.6	136.0	132.5	131.3	130.1
45°	115.1	116.2	122.1	133.7	148.8	137.2	125.5	119.7	120.9	122.1	120.9
47.5°	103.4	105.8	109.2	123.2	132.5	126.7	113.9	110.4	110.4	110.4	111.6
50°	89.5	95.3	102.3	113.9	120.9	117.4	107.0	102.3	100.0	100.0	101.1
52.5°	80.2	84.9	94.1	108.1	117.4	111.6	101.1	94.1	89.5	88.3	90.7
55°	69.8	77.9	92.9	103.4	116.2	110.4	98.8	90.7	82.5	81.4	81.4
57.5°	62.8	75.6	89.5	102.3	112.8	108.1	98.8	88.3	77.9	76.7	76.7
60°	59.3	73.2	87.1	98.8	112.8	105.8	97.6	86.0	74.4	74.4	73.2
62.5°	55.7	68.6	82.5	94.1	108.1	102.3	94.1	82.5	70.9	70.9	68.6
65°	46.5	59.3	68.6	79.0	94.1	88.3	80.2	72.0	62.8	60.4	61.6
67.5°	32.6	40.7	50.0	60.4	69.8	67.4	63.9	58.1	50.0	48.8	47.7
70°	16.3	22.1	30.2	40.7	48.8	46.5	44.2	39.5	34.8	33.7	33.7
72.5°	2.3	7.0	12.8	18.6	25.6	26.7	25.6	24.4	23.3	22.1	23.3
75°	0.0	0.0	0.0	4.6	10.5	12.8	15.1	17.5	17.5	15.1	18.6
77.5°	0.0	0.0	0.0	0.0	1.2	5.8	11.6	15.1	18.6	16.3	22.1
80°	0.0	0.0	0.0	0.0	1.2	7.0	11.6	16.3	18.6	16.3	23.3
82.5°	0.0	0.0	0.0	0.0	1.2	8.1	11.6	15.1	17.5	16.3	20.9
85°	0.0	0.0	0.0	0.0	3.5	7.0	4.6	2.3	1.2	1.2	3.5
87.5°	0.0	0.0	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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 CATALOG NUMBER: GALN-SA3A-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3
2.5°	2595.3	2677.9	2766.2	2799.9	2904.5	2983.5	3036.9	3152.0	3169.4	3170.6
5°	2085.1	2126.9	2278.0	2348.9	2504.7	2625.6	2754.5	2940.5	3064.9	3074.1
7.5°	1481.9	1598.1	1662.0	1846.8	2038.6	2228.0	2419.8	2636.0	2780.1	2783.6
10°	1192.5	1268.0	1381.9	1520.2	1681.8	1874.7	2130.4	2381.5	2527.9	2563.9
12.5°	960.0	1092.5	1222.7	1365.6	1488.9	1634.1	1909.6	2244.3	2365.2	2437.2
15°	739.2	860.0	1013.5	1180.8	1320.3	1514.4	1828.2	2210.6	2414.0	2438.4
17.5°	545.1	653.2	795.0	953.1	1162.3	1437.7	1842.2	2381.5	2573.3	2613.9
20°	391.7	454.5	566.0	749.6	1015.8	1348.2	1856.1	2554.6	2846.4	2916.1
22.5°	310.3	335.9	409.1	571.8	851.9	1254.1	1954.9	2885.9	3221.7	3322.9
25°	269.7	283.6	318.4	450.9	748.5	1244.7	2113.0	3283.4	3721.5	3794.7
27.5°	260.3	262.7	292.9	413.7	692.7	1183.2	2173.5	3565.8	4033.0	4107.4
30°	274.3	311.5	313.8	349.8	589.3	1061.1	2204.8	3838.9	4296.9	4351.4
32.5°	237.1	225.5	233.6	270.8	518.3	990.3	2264.0	4077.2	4597.9	4636.2
35°	165.1	173.2	191.8	234.7	453.3	915.9	2279.2	4339.9	4883.8	4923.3
37.5°	152.3	156.9	172.0	199.9	398.6	874.0	2258.3	4531.6	5180.2	5234.8
40°	141.8	147.6	155.7	181.3	358.0	827.6	2229.2	4704.8	5361.5	5496.3
42.5°	133.7	138.3	145.2	173.2	323.1	781.0	2188.5	4948.9	5524.2	5641.6
45°	124.3	131.3	139.5	168.5	303.3	749.6	2158.3	4933.8	5618.3	5681.1
47.5°	115.1	126.7	136.0	156.9	297.5	734.5	2171.1	4876.8	5541.6	5498.6
50°	105.8	120.9	137.2	130.1	283.6	704.3	2186.2	4954.7	5359.2	5351.0
52.5°	97.6	115.1	127.9	107.0	252.2	675.3	2332.6	5056.9	5488.1	5380.1
55°	86.0	103.4	102.3	86.0	204.5	653.2	2447.7	5059.3	5401.0	5441.7
57.5°	77.9	91.8	80.2	72.0	151.1	546.2	2260.6	4242.2	4623.5	4695.5
60°	72.0	89.5	60.4	56.9	98.8	394.0	1973.5	3285.7	3675.0	3811.0
62.5°	66.2	84.9	47.7	46.5	68.6	280.1	1622.5	2749.9	3167.2	3351.9
65°	58.1	60.4	38.4	36.0	48.8	151.1	987.9	1893.3	2367.5	2436.1
67.5°	47.7	46.5	31.4	29.0	32.6	73.2	435.8	948.4	1372.6	1487.7
70°	38.4	38.4	26.7	23.3	23.3	33.7	113.9	377.7	620.6	686.9
72.5°	27.9	29.0	20.9	18.6	17.5	16.3	18.6	75.6	162.7	208.0
75°	24.4	25.6	20.9	16.3	12.8	10.5	8.1	7.0	9.3	15.1
77.5°	26.7	26.7	22.1	15.1	11.6	8.1	4.6	2.3	2.3	1.2
80°	33.7	34.8	29.0	19.7	13.9	9.3	5.8	2.3	1.2	1.2
82.5°	36.0	39.5	32.6	24.4	17.5	10.5	5.8	1.2	0.0	0.0
85°	9.3	15.1	25.6	22.1	17.5	10.5	5.8	1.2	0.0	0.0
87.5°	0.0	1.2	3.5	3.5	4.6	4.6	3.5	1.2	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

(END OF REPORT)