

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: P647833

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
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-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT 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

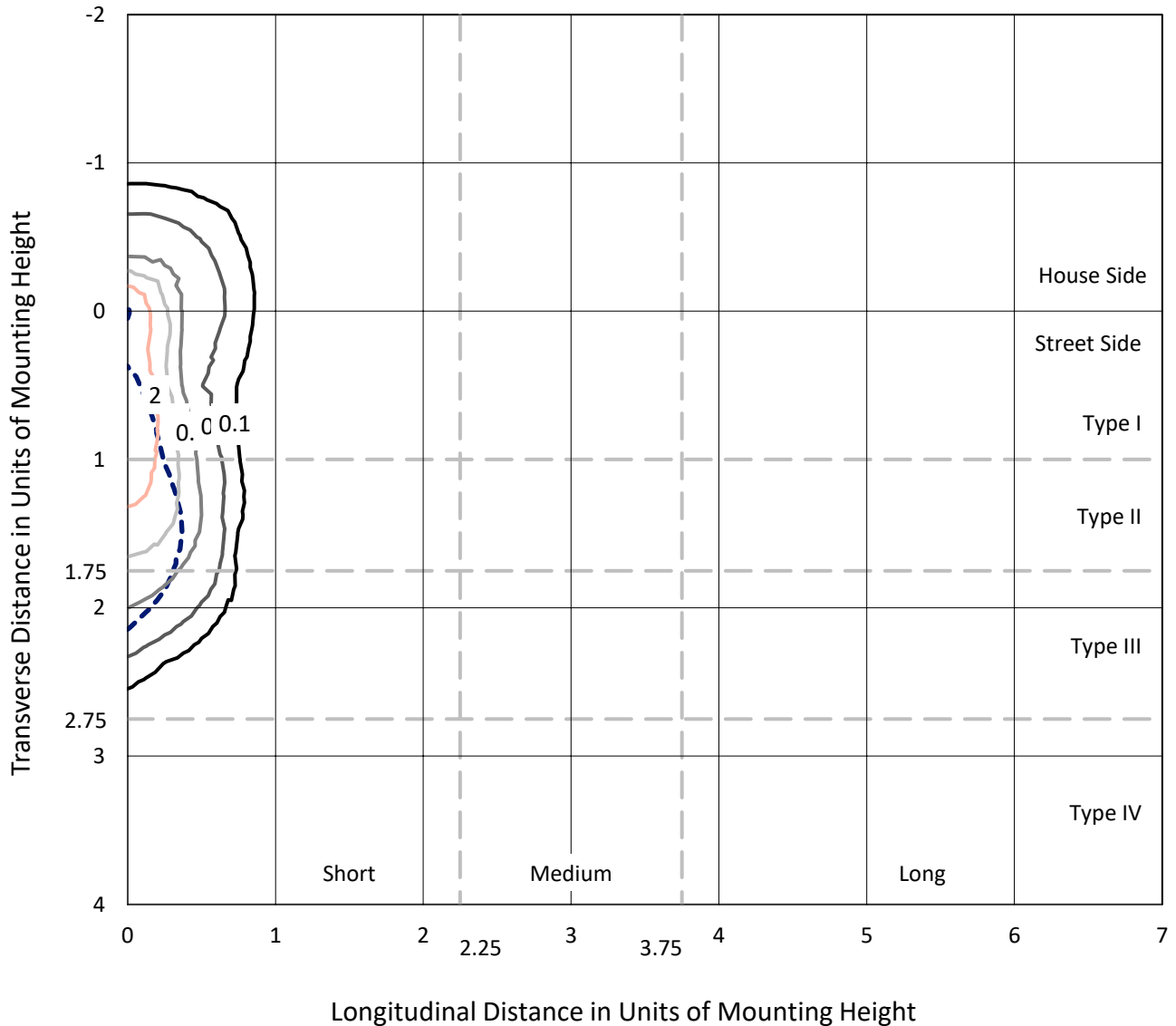




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Iso-Footcandle Lines of Horizontal Illumination

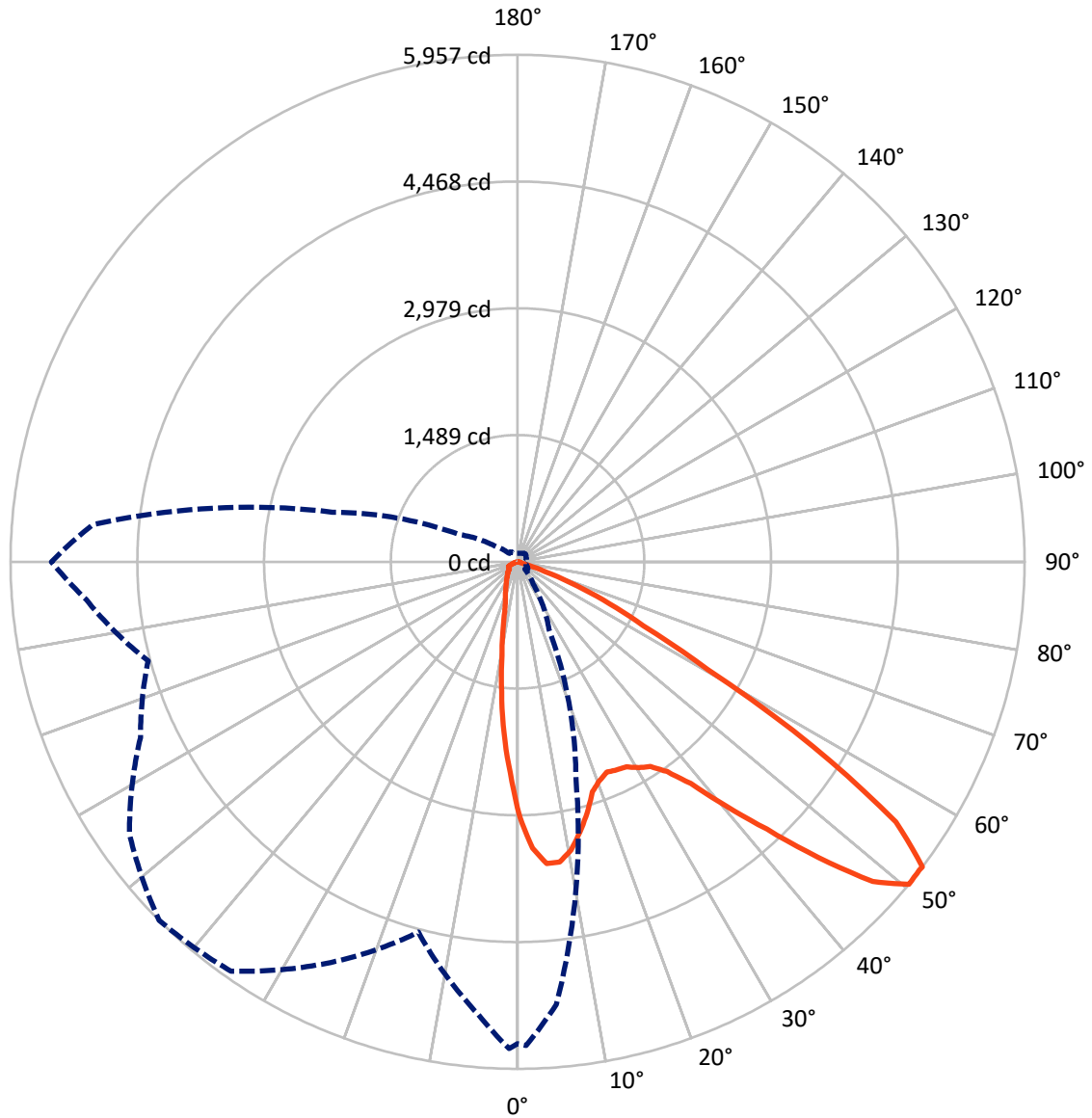
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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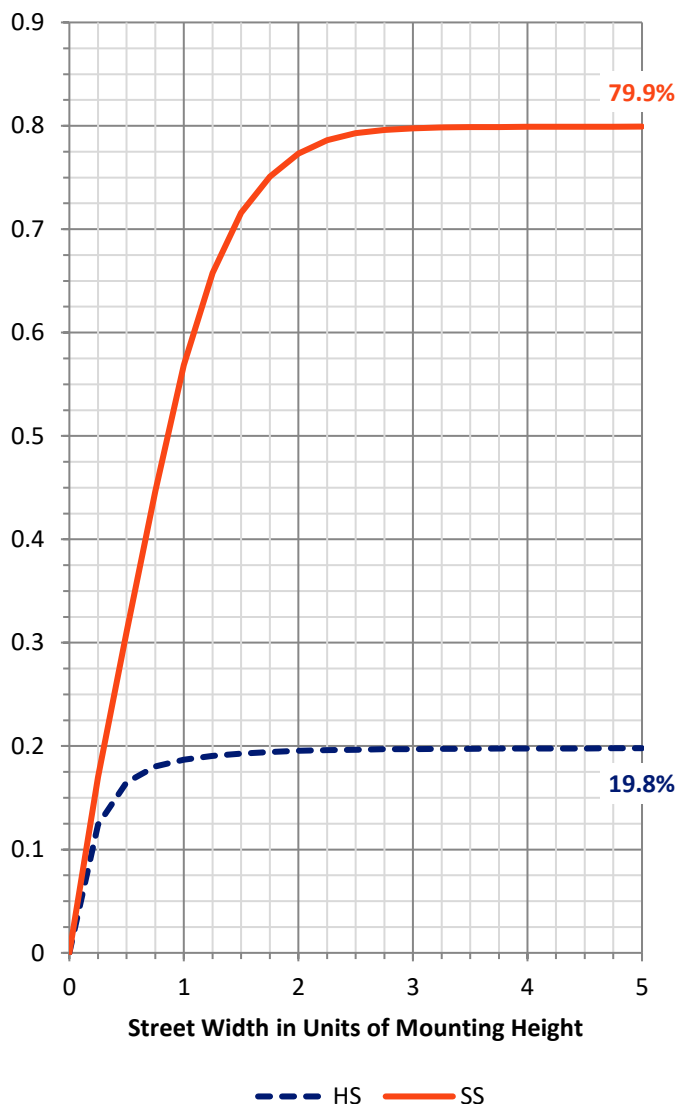
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1183.6	0.0	1183.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	4725.7	0.0	4725.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	5909.3	0.0	5909.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	3.7
10°-20°	434.1	7.3
20°-30°	652.2	11.0
30°-40°	978.9	16.6
40°-50°	1375.8	23.3
50°-60°	1484.0	25.1
60°-70°	689.0	11.7
70°-80°	64.8	1.1
80°-90°	12.0	0.2
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

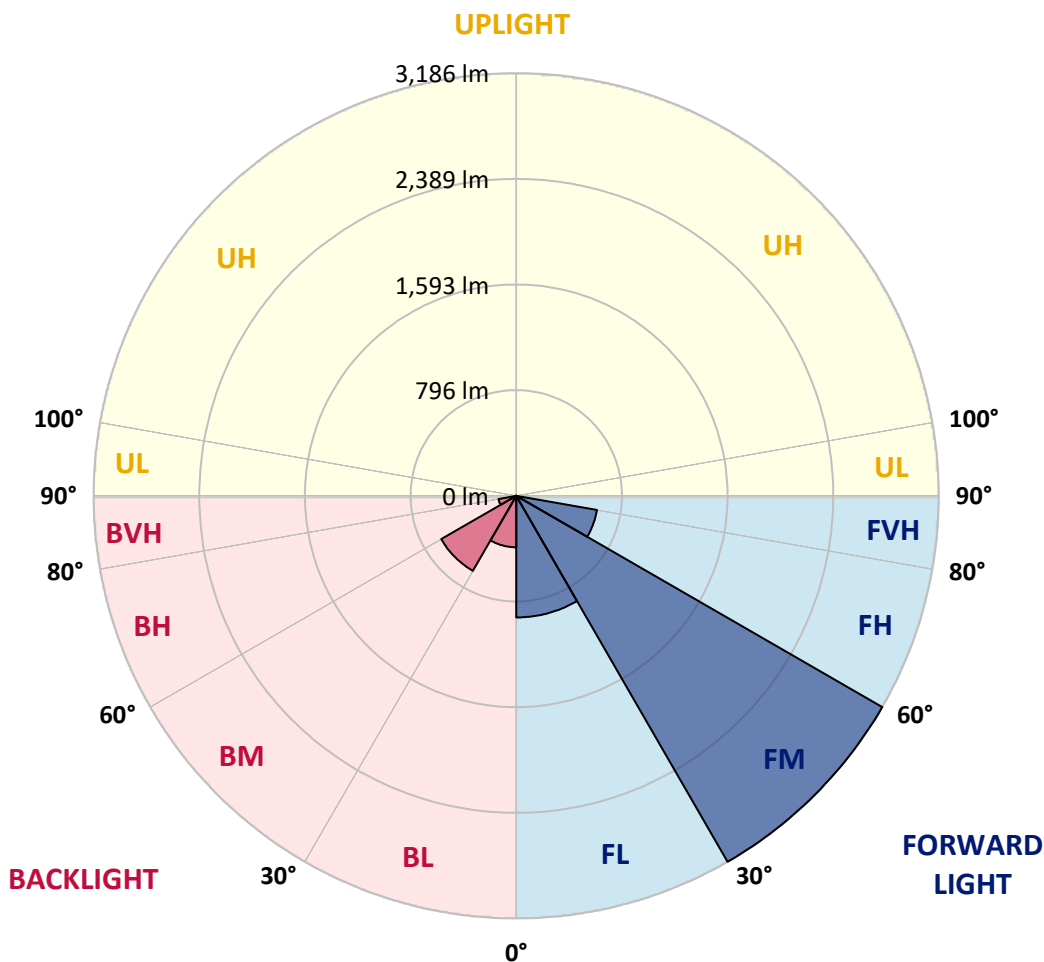


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.8	15.5			
FM (30°-60°)	3185.6	53.9			
FH (60°-80°)	618.0	10.5			G0/660
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	388.0	6.6	B1/500		
BM (30°-60°)	653.2	11.1	B1/1000		
BH (60°-80°)	135.9	2.3	B1/500		G1/500
BVH (80°-90°)	6.6	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8
2.5°	3115.2	3067.1	3006.2	2955.7	2880.7	2729.5	2688.4	2639.2	2598.2	2543.0	2465.7
5°	2832.6	2817.4	2789.2	2599.3	2462.1	2279.2	2129.1	2065.9	1982.6	1914.6	1865.3
7.5°	2616.9	2555.9	2466.8	2275.7	2056.5	1860.6	1694.2	1596.9	1486.7	1449.2	1382.3
10°	2386.0	2400.0	2268.7	2000.2	1735.2	1577.0	1473.8	1380.0	1280.3	1214.7	1119.7
12.5°	2312.0	2266.3	2165.5	1833.7	1607.4	1459.7	1334.2	1218.2	1112.6	1007.1	915.6
15°	2360.1	2289.8	2149.1	1798.6	1508.9	1324.8	1167.8	1010.6	913.4	778.5	683.6
17.5°	2532.5	2476.2	2287.5	1836.1	1458.5	1195.9	962.5	800.8	651.8	529.9	481.9
20°	2819.7	2740.0	2503.2	1884.1	1383.5	1040.0	780.8	581.5	440.8	389.2	362.3
22.5°	3101.1	3057.7	2758.7	1976.8	1316.6	901.6	586.2	391.6	329.5	320.1	302.5
25°	3636.9	3506.7	3149.1	2144.4	1265.1	771.5	442.0	315.4	279.1	272.0	274.4
27.5°	3955.8	3846.8	3510.3	2255.7	1207.6	671.8	374.0	289.6	265.0	249.7	243.9
30°	4261.8	4135.2	3689.7	2321.4	1084.5	566.3	331.8	277.9	272.0	249.7	242.7
32.5°	4497.5	4373.2	3948.7	2419.9	1034.1	498.3	273.2	216.9	201.6	199.4	220.4
35°	4858.6	4726.1	4170.3	2473.9	995.4	463.1	236.9	193.5	175.9	168.8	170.0
37.5°	5195.1	5104.8	4375.6	2495.0	954.4	452.6	212.2	173.5	158.2	153.6	152.5
40°	5476.5	5274.8	4570.2	2517.3	936.8	432.6	197.0	158.2	147.8	140.7	140.7
42.5°	5605.4	5400.3	4788.3	2504.3	932.1	401.0	197.0	145.4	137.2	130.1	129.0
45°	5577.3	5494.1	4885.5	2498.5	932.1	369.3	179.4	141.9	130.1	120.7	118.4
47.5°	5650.0	5541.0	5007.5	2523.1	913.4	347.0	151.3	148.9	123.1	111.4	109.1
50°	5662.9	5684.0	5219.7	2650.9	872.3	318.9	118.4	146.6	118.4	100.9	98.5
52°	5747.3	5616.0	5284.2	2718.9	828.9	297.8	99.7	125.4	113.7	93.8	91.5
52.5°	5631.3	5716.8	5299.4	2743.5	833.6	283.8	96.2	123.1	111.4	93.8	87.9
55°	5501.1	5583.2	5237.3	2796.2	764.4	222.8	75.0	89.1	100.9	82.1	78.5
57.5°	4781.2	4864.5	4551.4	2560.6	622.6	157.1	62.2	66.9	89.1	76.2	72.7
60°	4250.1	4190.3	3819.8	2136.2	442.0	87.9	49.3	51.6	97.3	70.3	69.1
62.5°	3884.3	3756.5	3192.5	1649.6	269.7	58.6	38.7	39.9	75.0	65.7	65.7
65°	2873.7	2730.6	2120.9	997.8	132.5	41.0	29.3	31.6	46.9	56.3	56.3
67.5°	1640.2	1585.1	1024.7	450.2	55.1	25.8	22.3	24.6	36.3	45.7	43.4
70°	753.9	676.5	393.9	95.0	25.8	17.6	17.6	20.0	29.3	34.0	31.6
72.5°	220.4	208.7	96.2	15.3	10.6	10.6	11.7	15.3	22.3	25.8	23.4
75°	16.4	10.6	7.0	4.7	4.7	7.0	9.4	15.3	22.3	24.6	20.0
77.5°	1.2	2.3	1.2	1.2	3.5	7.0	10.6	18.8	29.3	30.5	22.3
80°	1.2	1.2	0.0	1.2	3.5	7.0	11.7	21.1	32.8	35.2	18.8
82.5°	0.0	0.0	0.0	1.2	4.7	9.4	14.1	22.3	30.5	37.5	20.0
85°	0.0	0.0	0.0	1.2	7.0	12.9	16.4	5.9	3.5	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°	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8
2.5°	2520.7	2490.3	2478.5	2489.1	2485.6	2482.0	2546.6	2532.5	2530.1	2551.2	2546.6
5°	1892.4	1838.4	1986.1	1926.3	1988.4	2026.0	2033.0	2036.5	2079.9	2034.2	2094.0
7.5°	1348.3	1362.3	1361.2	1401.1	1472.6	1535.9	1573.4	1544.1	1541.7	1535.9	1510.1
10°	1077.5	1052.8	1048.1	1038.8	1061.0	1115.0	1160.7	1124.4	1098.5	1133.8	1123.2
12.5°	880.5	846.5	827.7	790.2	791.4	827.7	827.7	827.7	853.5	873.4	888.7
15°	675.3	647.1	647.1	609.6	601.5	602.6	621.4	623.7	664.8	676.5	682.4
17.5°	472.5	457.3	474.8	490.1	480.7	483.0	490.1	492.4	498.3	493.6	505.3
20°	363.5	361.1	365.8	392.8	412.7	424.4	416.2	404.5	397.5	381.0	381.0
22.5°	308.3	313.0	321.3	343.5	369.3	376.4	367.0	340.0	318.9	316.6	317.7
25°	274.4	279.1	291.9	306.0	320.1	331.8	322.4	302.5	290.7	280.2	280.2
27.5°	253.2	255.6	262.6	273.2	284.9	294.3	290.7	280.2	267.3	262.6	252.0
30°	236.9	240.4	248.5	250.9	261.4	266.1	260.3	257.9	249.7	243.9	240.4
32.5°	228.6	227.5	233.3	235.7	236.9	240.4	233.3	236.9	235.7	226.3	222.8
35°	172.3	181.7	197.0	209.8	213.4	218.1	216.9	212.2	199.4	188.8	175.9
37.5°	154.8	160.6	168.8	179.4	193.5	199.4	197.0	185.3	170.0	162.9	160.6
40°	143.1	146.6	153.6	160.6	174.7	185.3	177.0	166.5	154.8	148.9	145.4
42.5°	132.5	133.7	137.2	144.2	154.8	171.2	157.1	143.1	138.4	134.8	132.5
45°	120.7	120.7	125.4	129.0	140.7	156.0	141.9	129.0	126.6	124.3	123.1
47.5°	111.4	112.5	114.9	119.6	129.0	139.5	130.1	119.6	113.7	112.5	110.2
50°	99.7	100.9	105.5	110.2	121.9	127.8	121.9	110.2	104.4	100.9	100.9
52°	90.3	93.8	98.5	107.9	116.0	125.4	118.4	105.5	98.5	95.0	92.6
52.5°	89.1	91.5	96.2	106.7	116.0	124.3	117.2	104.4	96.2	93.8	91.5
55°	79.7	83.2	91.5	104.4	114.9	124.3	114.9	103.2	91.5	85.6	83.2
57.5°	76.2	78.5	89.1	105.5	113.7	124.3	114.9	103.2	91.5	80.9	78.5
60°	72.7	77.4	89.1	102.0	112.5	125.4	116.0	102.0	89.1	76.2	76.2
62.5°	69.1	72.7	87.9	99.7	107.9	120.7	111.4	99.7	85.6	72.7	71.5
65°	59.8	65.7	77.4	83.2	92.6	104.4	95.0	86.8	75.0	64.5	63.3
67.5°	45.7	48.1	57.5	64.5	70.3	80.9	76.2	65.7	57.5	49.3	49.3
70°	31.6	34.0	41.0	44.6	50.4	56.3	52.8	44.6	38.7	34.0	32.8
72.5°	22.3	23.4	25.8	28.1	30.5	32.8	31.6	25.8	22.3	21.1	20.0
75°	17.6	20.0	21.1	20.0	18.8	17.6	17.6	15.3	12.9	11.7	11.7
77.5°	17.6	18.8	17.6	15.3	12.9	11.7	10.6	9.4	7.0	5.9	7.0
80°	15.3	15.3	15.3	12.9	11.7	10.6	9.4	8.2	7.0	5.9	5.9
82.5°	16.4	16.4	15.3	12.9	12.9	10.6	10.6	9.4	8.2	5.9	5.9
85°	0.0	0.0	0.0	2.3	5.9	10.6	10.6	9.4	8.2	7.0	7.0
87.5°	0.0	0.0	0.0	0.0	1.2	2.3	4.7	5.9	7.0	7.0	7.0
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°	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8
2.5°	2588.8	2633.3	2717.7	2802.1	2853.7	2914.7	3024.9	3083.5	3159.7	3197.2	3271.1
5°	2085.8	2191.3	2228.8	2325.0	2428.2	2531.3	2695.5	2876.0	3026.1	3129.3	3262.9
7.5°	1521.8	1546.4	1691.8	1756.3	1925.2	2112.8	2336.7	2564.2	2754.0	2922.9	3024.9
10°	1140.8	1231.0	1322.5	1445.7	1581.7	1775.1	1989.6	2240.6	2486.7	2655.5	2784.6
12.5°	916.8	988.4	1110.3	1242.8	1410.4	1538.3	1754.0	2002.5	2321.4	2486.7	2656.7
15°	694.1	785.5	923.9	1061.0	1238.1	1372.9	1591.0	1904.0	2314.4	2541.9	2688.4
17.5°	514.7	576.8	701.1	854.7	1035.3	1225.2	1519.5	1893.5	2392.9	2663.8	2815.0
20°	393.9	415.1	493.6	630.8	826.5	1075.1	1403.4	1939.3	2625.1	2960.4	3114.0
22.5°	318.9	328.3	358.8	453.7	643.7	943.8	1348.3	1970.9	2886.5	3315.7	3520.8
25°	277.9	275.5	295.4	336.5	503.0	820.7	1277.9	2090.5	3206.6	3733.0	3917.1
27.5°	253.2	253.2	262.6	291.9	417.4	741.0	1233.4	2176.0	3529.1	4100.0	4199.7
30°	240.4	242.7	269.7	279.1	347.0	646.1	1159.5	2262.8	3837.4	4334.5	4471.7
32.5°	222.8	213.4	207.5	231.0	291.9	560.4	1085.7	2299.1	4087.1	4621.7	4739.0
35°	171.2	166.5	173.5	191.1	250.9	487.7	1003.6	2340.2	4374.4	4954.7	4978.2
37.5°	154.8	153.6	158.2	173.5	211.0	424.4	945.0	2329.7	4593.6	5230.3	5166.9
40°	143.1	143.1	146.6	159.4	188.8	379.8	884.0	2320.3	4805.8	5539.8	5354.5
42.5°	133.7	133.7	139.5	147.8	179.4	350.5	838.3	2307.3	4984.0	5729.8	5464.7
45°	120.7	124.3	133.7	141.9	181.7	330.7	804.3	2258.1	5045.0	5727.4	5412.0
47.5°	111.4	116.0	125.4	137.2	164.1	324.8	780.8	2214.7	5023.9	5586.7	5246.6
50°	100.9	106.7	119.6	139.5	139.5	313.0	756.2	2253.4	5008.7	5477.6	5088.4
52°	93.8	98.5	114.9	136.0	121.9	288.5	741.0	2328.5	5070.8	5463.5	5018.0
52.5°	92.6	96.2	111.4	133.7	116.0	283.8	730.5	2346.0	5090.8	5428.4	5066.1
55°	82.1	86.8	102.0	104.4	95.0	233.3	696.4	2386.0	4992.3	5359.2	5020.4
57.5°	77.4	79.7	90.3	85.6	82.1	175.9	599.2	2323.8	4434.2	4760.1	4671.0
60°	71.5	73.8	84.4	66.9	69.1	123.1	450.2	2017.8	3560.7	3966.4	4127.0
62.5°	69.1	68.0	79.7	53.9	58.6	89.1	317.7	1640.2	2743.5	3265.3	3543.2
65°	61.0	59.8	57.5	45.7	50.4	69.1	190.0	1070.4	1933.4	2470.4	2622.7
67.5°	46.9	49.3	42.2	36.3	42.2	53.9	105.5	479.5	1014.1	1482.0	1605.1
70°	32.8	35.2	34.0	31.6	37.5	44.6	61.0	164.1	419.8	778.5	858.2
72.5°	20.0	24.6	25.8	26.9	32.8	38.7	43.4	52.8	111.4	275.5	342.3
75°	11.7	16.4	20.0	23.4	26.9	32.8	36.3	37.5	38.7	51.6	83.2
77.5°	8.2	11.7	17.6	22.3	26.9	32.8	38.7	41.0	38.7	36.3	38.7
80°	7.0	11.7	16.4	21.1	28.1	34.0	38.7	38.7	37.5	32.8	35.2
82.5°	7.0	11.7	17.6	22.3	26.9	32.8	37.5	38.7	35.2	32.8	34.0
85°	8.2	12.9	18.8	23.4	29.3	26.9	24.6	20.0	18.8	15.3	16.4
87.5°	8.2	11.7	11.7	12.9	14.1	14.1	14.1	12.9	10.6	9.4	9.4
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-SA3A-835-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8	2996.8
2.5°	3274.7	3368.4	3364.9	3367.2	3353.2	3258.2	3212.5	3096.5	3129.3	3115.2
5°	3400.1	3492.7	3572.4	3563.0	3455.2	3326.2	3135.1	2954.6	2905.3	2832.6
7.5°	3274.7	3497.4	3571.3	3560.7	3401.3	3235.9	2931.1	2750.5	2664.9	2616.9
10°	3075.3	3333.2	3424.7	3443.5	3335.6	3084.7	2804.5	2514.9	2469.2	2386.0
12.5°	2961.6	3149.1	3205.4	3255.9	3218.4	3030.8	2708.3	2430.5	2367.2	2312.0
15°	2869.0	2980.3	3003.8	3061.2	3083.5	2982.7	2758.7	2521.9	2366.0	2360.1
17.5°	2954.6	2908.8	2823.3	2840.8	2911.2	2983.9	2888.9	2702.4	2551.2	2532.5
20°	3096.5	2894.8	2701.3	2744.6	2803.3	3026.1	3085.9	2954.6	2867.8	2819.7
22.5°	3259.4	2919.4	2662.6	2683.7	2795.1	3121.0	3404.8	3332.1	3170.3	3101.1
25°	3560.7	2987.4	2693.1	2707.1	2859.6	3253.5	3693.2	3747.1	3651.0	3636.9
27.5°	3855.0	3163.2	2759.9	2728.3	2892.4	3382.5	3867.9	4157.5	3988.7	3955.8
30°	4005.0	3306.3	2859.6	2805.6	3028.4	3461.0	3973.4	4424.8	4277.1	4261.8
32.5°	4234.9	3436.4	2937.0	2867.8	3104.6	3558.3	4170.3	4716.7	4573.7	4497.5
35°	4331.0	3578.3	3106.9	3026.1	3322.7	3694.4	4271.2	4977.0	4932.4	4858.6
37.5°	4516.3	3730.7	3307.5	3302.8	3586.5	3871.4	4452.9	5331.1	5322.9	5195.1
40°	4531.5	3897.2	3624.0	3771.7	3994.5	4179.7	4612.4	5429.6	5563.2	5476.5
42.5°	4554.9	4189.1	4171.5	4293.5	4484.6	4444.7	4618.2	5453.0	5657.0	5605.4
45°	4565.5	4481.1	4728.5	4953.6	5033.3	4791.8	4563.2	5408.5	5706.3	5577.3
47.5°	4481.1	4732.0	5178.7	5613.6	5637.1	5005.2	4539.7	5362.8	5735.6	5650.0
50°	4492.8	4889.1	5567.9	5957.1	5871.6	5194.0	4503.3	5334.6	5720.4	5662.9
52°	4464.7	4892.6	5623.0	5950.2	5890.4	5089.6	4441.2	5226.8	5706.3	5747.3
52.5°	4496.3	4871.5	5565.6	5954.8	5877.4	5141.2	4433.0	5286.5	5714.5	5631.3
55°	4387.3	4620.6	5229.1	5394.4	5382.7	4666.3	4180.9	5088.4	5499.9	5501.1
57.5°	3965.2	4005.0	4101.2	4097.7	4043.7	3668.6	3576.0	4679.2	4903.1	4781.2
60°	3493.9	2932.3	2673.2	2567.6	2507.9	2446.9	3163.2	4280.6	4301.7	4250.1
62.5°	3019.0	2033.0	1688.3	1659.0	1673.0	1895.8	3057.7	4122.3	3995.6	3884.3
65°	2436.3	1482.0	1226.4	1187.7	1324.8	1565.2	2475.1	3160.9	2966.2	2873.7
67.5°	1530.1	1081.0	828.9	756.2	921.5	1077.5	1626.2	1986.1	1768.0	1640.2
70°	907.5	603.8	375.2	336.5	378.7	574.5	911.0	990.7	819.6	753.9
72.5°	357.6	221.6	104.4	89.1	92.6	201.6	335.3	327.1	247.3	220.4
75°	96.2	66.9	36.3	29.3	24.6	37.5	53.9	35.2	12.9	16.4
77.5°	44.6	39.9	31.6	24.6	18.8	14.1	7.0	2.3	2.3	1.2
80°	38.7	34.0	29.3	24.6	18.8	11.7	5.9	1.2	1.2	1.2
82.5°	36.3	31.6	26.9	22.3	17.6	11.7	5.9	1.2	0.0	0.0
85°	15.3	20.0	22.3	21.1	18.8	11.7	5.9	1.2	0.0	0.0
87.5°	8.2	7.0	5.9	4.7	3.5	2.3	2.3	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

(END OF REPORT)