

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: P527977

Luminaire Tested: **GALN-SA3A-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527977
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-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 7031 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

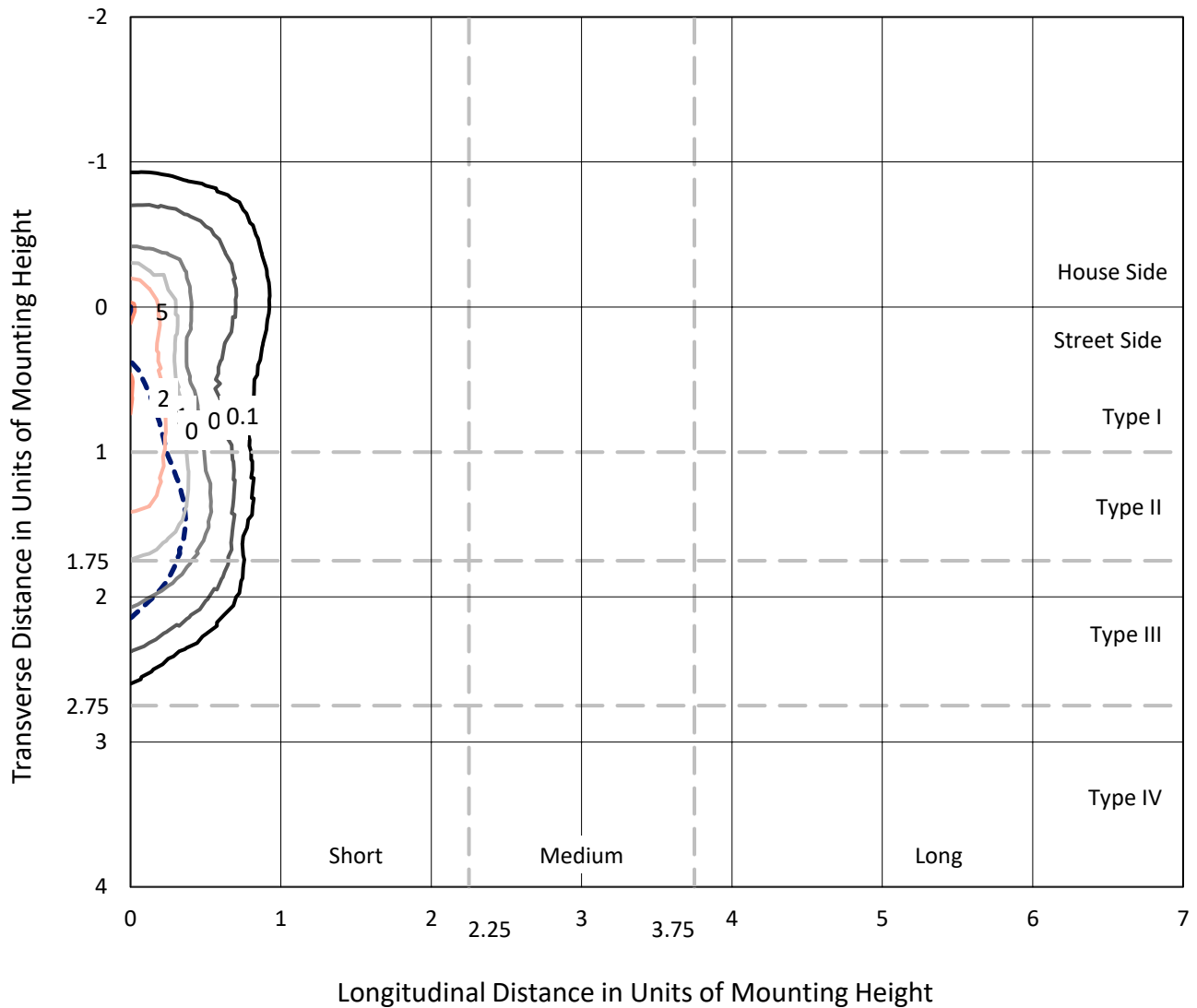
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

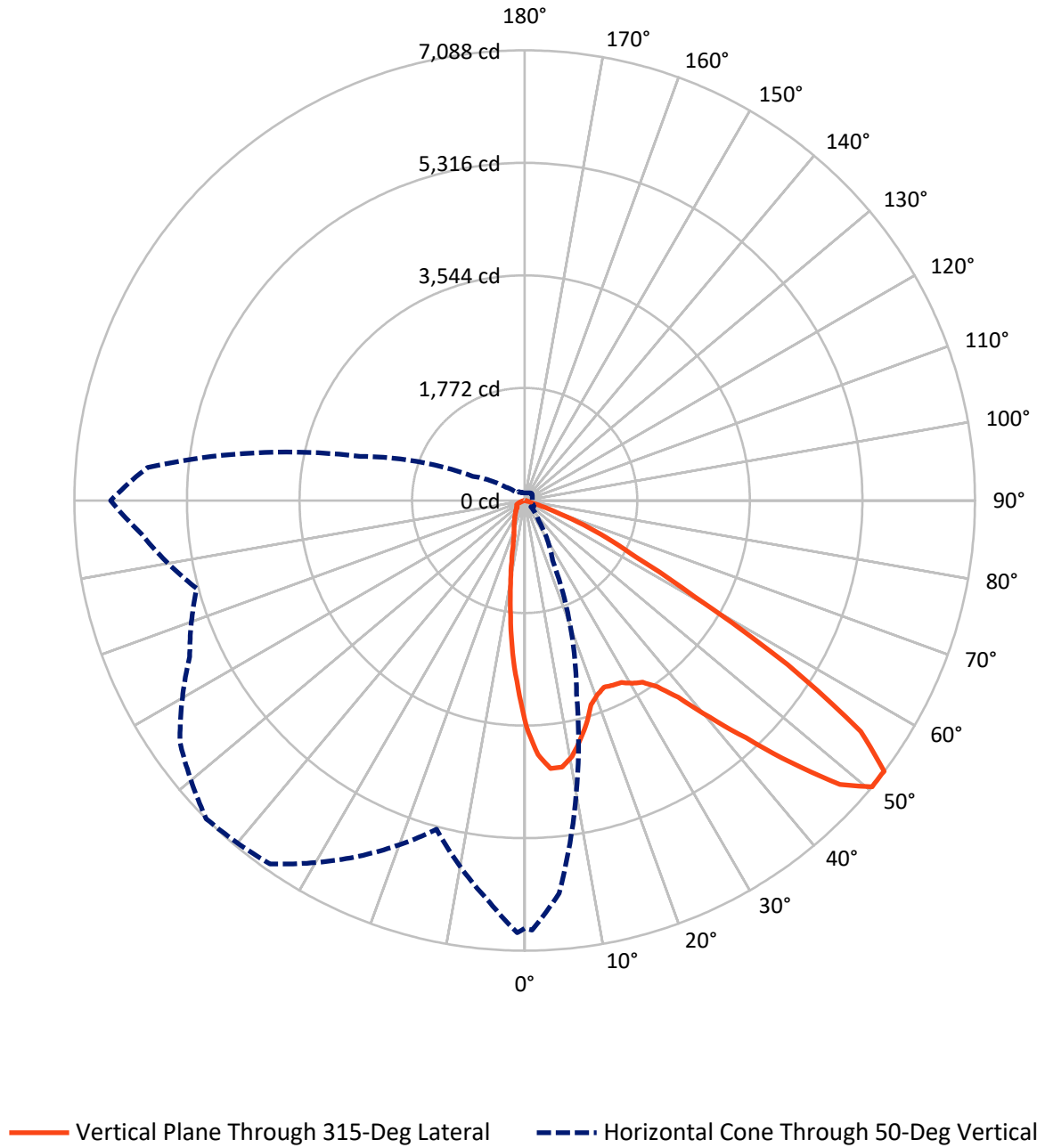
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot





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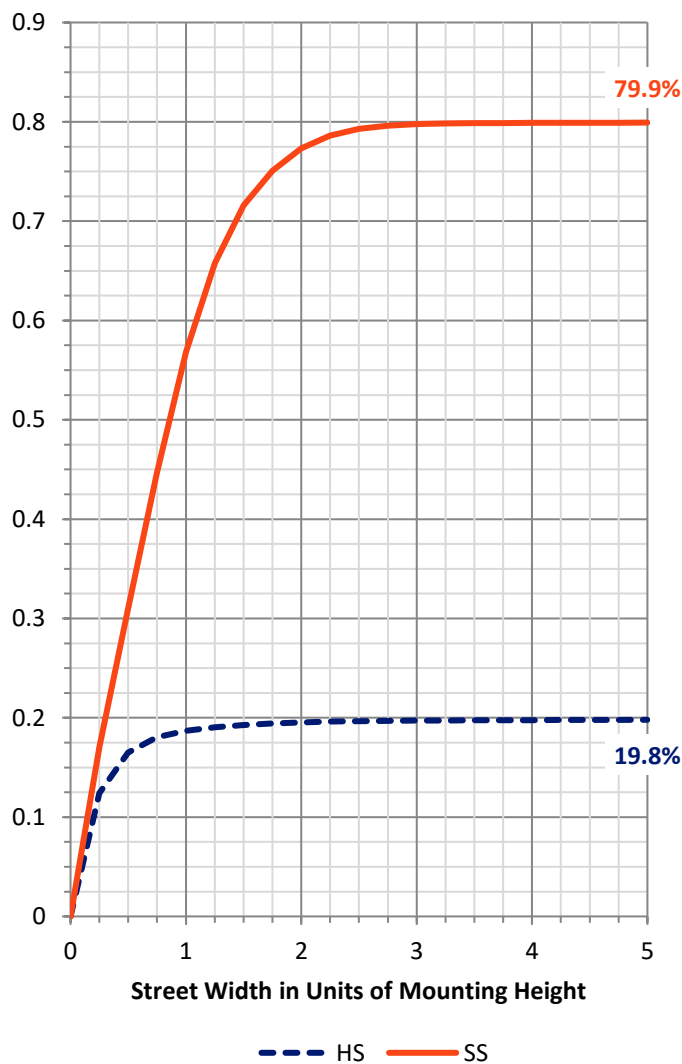
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1408.3	0.0	1408.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	5622.7	0.0	5622.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	7031.0	0.0	7031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	3.7
10°-20°	516.5	7.3
20°-30°	776.0	11.0
30°-40°	1164.7	16.6
40°-50°	1636.9	23.3
50°-60°	1765.7	25.1
60°-70°	819.8	11.7
70°-80°	77.1	1.1
80°-90°	14.2	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°	7031.0	100.0
0°-180°	7031.0	100.0

Coefficient of Utilization



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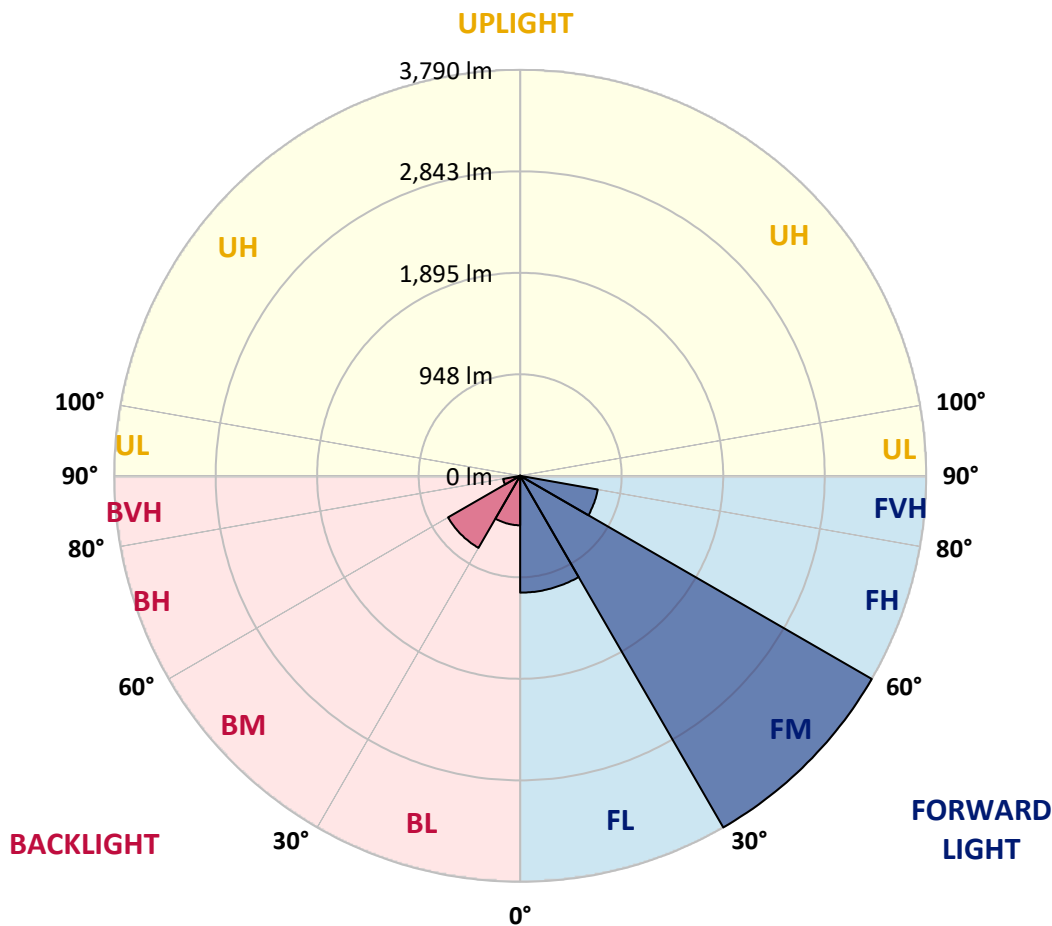
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.8	15.5			
FM (30°-60°)	3790.2	53.9			
FH (60°-80°)	735.3	10.5			G1/1800
FVH (80°-90°)	6.4	0.1			G0/10
BL (0°-30°)	461.6	6.6	B1/500		
BM (30°-60°)	777.2	11.1	B1/1000		
BH (60°-80°)	161.7	2.3	B1/500		G1/500
BVH (80°-90°)	7.8	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6
2.5°	3706.5	3649.3	3576.8	3516.8	3427.5	3247.5	3198.7	3140.1	3091.3	3025.7	2933.7
5°	3370.3	3352.2	3318.7	3092.7	2929.5	2711.9	2533.3	2458.0	2358.9	2278.0	2219.4
7.5°	3113.6	3041.1	2935.1	2707.7	2446.8	2213.9	2015.8	1900.0	1768.9	1724.2	1644.7
10°	2838.8	2855.6	2699.3	2379.9	2064.6	1876.3	1753.5	1641.9	1523.3	1445.2	1332.2
12.5°	2750.9	2696.5	2576.6	2181.8	1912.5	1736.8	1587.5	1449.4	1323.8	1198.3	1089.5
15°	2808.1	2724.4	2557.0	2139.9	1795.4	1576.3	1389.4	1202.5	1086.7	926.3	813.3
17.5°	3013.2	2946.2	2721.6	2184.6	1735.4	1422.9	1145.3	952.8	775.6	630.5	573.3
20°	3355.0	3260.1	2978.3	2241.8	1646.1	1237.4	929.1	691.9	524.5	463.1	431.1
22.5°	3689.8	3638.1	3282.4	2352.0	1566.6	1072.7	697.5	465.9	392.0	380.8	359.9
25°	4327.3	4172.4	3747.0	2551.4	1505.2	917.9	525.9	375.3	332.0	323.6	326.4
27.5°	4706.7	4577.0	4176.6	2684.0	1436.8	799.3	445.0	344.6	315.3	297.1	290.2
30°	5070.8	4920.1	4390.0	2762.1	1290.4	673.8	394.8	330.6	323.6	297.1	288.8
32.5°	5351.2	5203.3	4698.3	2879.3	1230.4	592.9	325.0	258.1	239.9	237.1	262.3
35°	5780.9	5623.2	4962.0	2943.4	1184.3	551.0	281.8	230.2	209.2	200.9	202.3
37.5°	6181.2	6073.8	5206.1	2968.5	1135.5	538.5	252.5	206.5	188.3	182.7	181.3
40°	6516.0	6276.1	5437.7	2995.1	1114.6	514.8	234.4	188.3	175.8	167.4	167.4
42.5°	6669.5	6425.3	5697.2	2979.7	1109.0	477.1	234.4	173.0	163.2	154.8	153.4
45°	6636.0	6536.9	5812.9	2972.7	1109.0	439.4	213.4	168.8	154.8	143.7	140.9
47.5°	6722.5	6592.7	5958.0	3002.0	1086.7	412.9	180.0	177.2	146.5	132.5	129.7
50°	6737.8	6762.9	6210.5	3154.1	1037.9	379.4	140.9	174.4	140.9	120.0	117.2
52°	6838.3	6682.0	6287.2	3235.0	986.3	354.3	118.6	149.3	135.3	111.6	108.8
52.5°	6700.2	6802.0	6305.4	3264.3	991.8	337.6	114.4	146.5	132.5	111.6	104.6
55°	6545.3	6643.0	6231.4	3327.1	909.5	265.0	89.3	106.0	120.0	97.6	93.5
57.5°	5688.8	5787.8	5415.4	3046.7	740.7	186.9	73.9	79.5	106.0	90.7	86.5
60°	5056.9	4985.7	4544.9	2541.7	525.9	104.6	58.6	61.4	115.8	83.7	82.3
62.5°	4621.6	4469.6	3798.6	1962.8	320.8	69.7	46.0	47.4	89.3	78.1	78.1
65°	3419.1	3248.9	2523.5	1187.1	157.6	48.8	34.9	37.7	55.8	67.0	67.0
67.5°	1951.6	1886.0	1219.2	535.7	65.6	30.7	26.5	29.3	43.2	54.4	51.6
70°	897.0	804.9	468.7	113.0	30.7	20.9	20.9	23.7	34.9	40.5	37.7
72.5°	262.3	248.3	114.4	18.1	12.6	12.6	13.9	18.1	26.5	30.7	27.9
75°	19.5	12.6	8.4	5.6	5.6	8.4	11.2	18.1	26.5	29.3	23.7
77.5°	1.4	2.8	1.4	1.4	4.2	8.4	12.6	22.3	34.9	36.3	26.5
80°	1.4	1.4	0.0	1.4	4.2	8.4	13.9	25.1	39.1	41.8	22.3
82.5°	0.0	0.0	0.0	1.4	5.6	11.2	16.7	26.5	36.3	44.6	23.7
85°	0.0	0.0	0.0	1.4	8.4	15.3	19.5	7.0	4.2	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°	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6
2.5°	2999.2	2963.0	2949.0	2961.6	2957.4	2953.2	3029.9	3013.2	3010.4	3035.5	3029.9
5°	2251.5	2187.3	2363.1	2292.0	2365.9	2410.5	2418.9	2423.1	2474.7	2420.3	2491.5
7.5°	1604.2	1621.0	1619.6	1667.0	1752.1	1827.4	1872.1	1837.2	1834.4	1827.4	1796.8
10°	1282.0	1252.7	1247.1	1236.0	1262.5	1326.6	1381.0	1337.8	1307.1	1349.0	1336.4
12.5°	1047.6	1007.2	984.9	940.2	941.6	984.9	984.9	984.9	1015.6	1039.3	1057.4
15°	803.5	770.0	770.0	725.4	715.6	717.0	739.3	742.1	791.0	804.9	811.9
17.5°	562.2	544.0	565.0	583.1	571.9	574.7	583.1	585.9	592.9	587.3	601.2
20°	432.4	429.7	435.2	467.3	491.0	505.0	495.2	481.3	472.9	453.4	453.4
22.5°	366.9	372.5	382.2	408.7	439.4	447.8	436.6	404.5	379.4	376.6	378.0
25°	326.4	332.0	347.4	364.1	380.8	394.8	383.6	359.9	346.0	333.4	333.4
27.5°	301.3	304.1	312.5	325.0	339.0	350.1	346.0	333.4	318.1	312.5	299.9
30°	281.8	286.0	295.7	298.5	311.1	316.7	309.7	306.9	297.1	290.2	286.0
32.5°	272.0	270.6	277.6	280.4	281.8	286.0	277.6	281.8	280.4	269.2	265.0
35°	205.1	216.2	234.4	249.7	253.9	259.5	258.1	252.5	237.1	224.6	209.2
37.5°	184.1	191.1	200.9	213.4	230.2	237.1	234.4	220.4	202.3	193.9	191.1
40°	170.2	174.4	182.7	191.1	207.9	220.4	210.6	198.1	184.1	177.2	173.0
42.5°	157.6	159.0	163.2	171.6	184.1	203.7	186.9	170.2	164.6	160.4	157.6
45°	143.7	143.7	149.3	153.4	167.4	185.5	168.8	153.4	150.7	147.9	146.5
47.5°	132.5	133.9	136.7	142.3	153.4	166.0	154.8	142.3	135.3	133.9	131.1
50°	118.6	120.0	125.5	131.1	145.1	152.1	145.1	131.1	124.2	120.0	120.0
52°	107.4	111.6	117.2	128.3	138.1	149.3	140.9	125.5	117.2	113.0	110.2
52.5°	106.0	108.8	114.4	126.9	138.1	147.9	139.5	124.2	114.4	111.6	108.8
55°	94.9	99.0	108.8	124.2	136.7	147.9	136.7	122.8	108.8	101.8	99.0
57.5°	90.7	93.5	106.0	125.5	135.3	147.9	136.7	122.8	108.8	96.3	93.5
60°	86.5	92.1	106.0	121.4	133.9	149.3	138.1	121.4	106.0	90.7	90.7
62.5°	82.3	86.5	104.6	118.6	128.3	143.7	132.5	118.6	101.8	86.5	85.1
65°	71.1	78.1	92.1	99.0	110.2	124.2	113.0	103.2	89.3	76.7	75.3
67.5°	54.4	57.2	68.4	76.7	83.7	96.3	90.7	78.1	68.4	58.6	58.6
70°	37.7	40.5	48.8	53.0	60.0	67.0	62.8	53.0	46.0	40.5	39.1
72.5°	26.5	27.9	30.7	33.5	36.3	39.1	37.7	30.7	26.5	25.1	23.7
75°	20.9	23.7	25.1	23.7	22.3	20.9	20.9	18.1	15.3	13.9	13.9
77.5°	20.9	22.3	20.9	18.1	15.3	13.9	12.6	11.2	8.4	7.0	8.4
80°	18.1	18.1	18.1	15.3	13.9	12.6	11.2	9.8	8.4	7.0	7.0
82.5°	19.5	19.5	18.1	15.3	15.3	12.6	12.6	11.2	9.8	7.0	7.0
85°	0.0	0.0	0.0	2.8	7.0	12.6	12.6	11.2	9.8	8.4	8.4
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	5.6	7.0	8.4	8.4	8.4
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6
2.5°	3080.1	3133.2	3233.6	3334.0	3395.4	3468.0	3599.1	3668.8	3759.5	3804.1	3892.0
5°	2481.7	2607.2	2651.9	2766.3	2889.0	3011.8	3207.1	3421.9	3600.5	3723.2	3882.3
7.5°	1810.7	1840.0	2013.0	2089.7	2290.6	2513.8	2780.2	3050.9	3276.8	3477.7	3599.1
10°	1357.3	1464.7	1573.6	1720.0	1881.8	2112.0	2367.3	2665.8	2958.8	3159.7	3313.1
12.5°	1090.9	1176.0	1321.1	1478.7	1678.2	1830.2	2086.9	2382.6	2762.1	2958.8	3161.1
15°	825.8	934.6	1099.3	1262.5	1473.1	1633.5	1893.0	2265.5	2753.7	3024.3	3198.7
17.5°	612.4	686.3	834.2	1017.0	1231.8	1457.8	1807.9	2252.9	2847.2	3169.4	3349.4
20°	468.7	493.8	587.3	750.5	983.5	1279.2	1669.8	2307.3	3123.4	3522.4	3705.1
22.5°	379.4	390.6	426.9	539.9	765.9	1123.0	1604.2	2345.0	3434.5	3945.0	4189.2
25°	330.6	327.8	351.5	400.4	598.5	976.5	1520.5	2487.3	3815.3	4441.7	4660.7
27.5°	301.3	301.3	312.5	347.4	496.6	881.6	1467.5	2589.1	4198.9	4878.3	4996.9
30°	286.0	288.8	320.8	332.0	412.9	768.6	1379.6	2692.3	4565.8	5157.3	5320.5
32.5°	265.0	253.9	246.9	274.8	347.4	666.8	1291.8	2735.6	4862.9	5499.1	5638.6
35°	203.7	198.1	206.5	227.4	298.5	580.3	1194.1	2784.4	5204.7	5895.2	5923.1
37.5°	184.1	182.7	188.3	206.5	251.1	505.0	1124.4	2771.9	5465.6	6223.1	6147.7
40°	170.2	170.2	174.4	189.7	224.6	452.0	1051.8	2760.7	5718.1	6591.3	6370.9
42.5°	159.0	159.0	166.0	175.8	213.4	417.1	997.4	2745.3	5930.1	6817.3	6502.1
45°	143.7	147.9	159.0	168.8	216.2	393.4	957.0	2686.8	6002.7	6814.5	6439.3
47.5°	132.5	138.1	149.3	163.2	195.3	386.4	929.1	2635.1	5977.5	6647.1	6242.6
50°	120.0	126.9	142.3	166.0	166.0	372.5	899.8	2681.2	5959.4	6517.4	6054.3
52°	111.6	117.2	136.7	161.8	145.1	343.2	881.6	2770.5	6033.3	6500.7	5970.6
52.5°	110.2	114.4	132.5	159.0	138.1	337.6	869.1	2791.4	6057.1	6458.8	6027.8
55°	97.6	103.2	121.4	124.2	113.0	277.6	828.6	2838.8	5939.9	6376.5	5973.4
57.5°	92.1	94.9	107.4	101.8	97.6	209.2	712.8	2764.9	5275.9	5663.7	5557.7
60°	85.1	87.9	100.4	79.5	82.3	146.5	535.7	2400.8	4236.6	4719.3	4910.4
62.5°	82.3	80.9	94.9	64.2	69.7	106.0	378.0	1951.6	3264.3	3885.1	4215.7
65°	72.5	71.1	68.4	54.4	60.0	82.3	226.0	1273.6	2300.3	2939.3	3120.6
67.5°	55.8	58.6	50.2	43.2	50.2	64.2	125.5	570.6	1206.7	1763.3	1909.7
70°	39.1	41.8	40.5	37.7	44.6	53.0	72.5	195.3	499.4	926.3	1021.1
72.5°	23.7	29.3	30.7	32.1	39.1	46.0	51.6	62.8	132.5	327.8	407.3
75°	13.9	19.5	23.7	27.9	32.1	39.1	43.2	44.6	46.0	61.4	99.0
77.5°	9.8	13.9	20.9	26.5	32.1	39.1	46.0	48.8	46.0	43.2	46.0
80°	8.4	13.9	19.5	25.1	33.5	40.5	46.0	46.0	44.6	39.1	41.8
82.5°	8.4	13.9	20.9	26.5	32.1	39.1	44.6	46.0	41.8	39.1	40.5
85°	9.8	15.3	22.3	27.9	34.9	32.1	29.3	23.7	22.3	18.1	19.5
87.5°	9.8	13.9	13.9	15.3	16.7	16.7	16.7	15.3	12.6	11.2	11.2
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-735-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6	3565.6
2.5°	3896.2	4007.8	4003.6	4006.4	3989.7	3876.7	3822.3	3684.2	3723.2	3706.5
5°	4045.5	4155.7	4250.5	4239.4	4111.0	3957.6	3730.2	3515.4	3456.8	3370.3
7.5°	3896.2	4161.3	4249.2	4236.6	4046.9	3850.2	3487.5	3272.7	3170.8	3113.6
10°	3659.1	3966.0	4074.8	4097.1	3968.8	3670.2	3336.8	2992.3	2937.9	2838.8
12.5°	3523.8	3747.0	3813.9	3873.9	3829.3	3606.1	3222.4	2891.8	2816.5	2750.9
15°	3413.5	3546.1	3574.0	3642.3	3668.8	3548.9	3282.4	3000.6	2815.1	2808.1
17.5°	3515.4	3461.0	3359.1	3380.1	3463.8	3550.3	3437.3	3215.5	3035.5	3013.2
20°	3684.2	3444.2	3214.1	3265.7	3335.4	3600.5	3671.6	3515.4	3412.2	3355.0
22.5°	3878.1	3473.5	3168.0	3193.1	3325.7	3713.5	4051.1	3964.6	3772.1	3689.8
25°	4236.6	3554.4	3204.3	3221.0	3402.4	3871.1	4394.2	4458.4	4344.0	4327.3
27.5°	4586.7	3763.7	3283.8	3246.1	3441.4	4024.6	4602.1	4946.6	4745.8	4706.7
30°	4765.3	3933.9	3402.4	3338.2	3603.3	4118.0	4727.6	5264.7	5088.9	5070.8
32.5°	5038.7	4088.7	3494.5	3412.2	3693.9	4233.8	4962.0	5612.1	5441.9	5351.2
35°	5153.1	4257.5	3696.7	3600.5	3953.4	4395.6	5082.0	5921.7	5868.7	5780.9
37.5°	5373.5	4438.9	3935.3	3929.7	4267.3	4606.3	5298.2	6343.0	6333.3	6181.2
40°	5391.6	4637.0	4311.9	4487.7	4752.7	4973.2	5487.9	6460.2	6619.2	6516.0
42.5°	5419.5	4984.3	4963.4	5108.5	5335.8	5288.4	5494.9	6488.1	6730.8	6669.5
45°	5432.1	5331.7	5626.0	5893.8	5988.7	5701.3	5429.3	6435.1	6789.4	6636.0
47.5°	5331.7	5630.2	6161.7	6679.2	6707.1	5955.2	5401.4	6380.7	6824.3	6722.5
50°	5345.6	5817.1	6624.8	7088.0	6986.1	6179.8	5358.2	6347.2	6806.2	6737.8
52°	5312.1	5821.3	6690.4	7079.6	7008.4	6055.7	5284.2	6218.9	6789.4	6838.3
52.5°	5349.8	5796.2	6622.0	7085.2	6993.1	6117.0	5274.5	6290.0	6799.2	6700.2
55°	5220.1	5497.7	6221.7	6418.4	6404.4	5552.1	4974.5	6054.3	6543.9	6545.3
57.5°	4717.9	4765.3	4879.7	4875.5	4811.3	4364.9	4254.7	5567.4	5833.9	5688.8
60°	4157.1	3488.9	3180.6	3055.0	2983.9	2911.4	3763.7	5093.1	5118.2	5056.9
62.5°	3592.1	2418.9	2008.8	1973.9	1990.7	2255.7	3638.1	4904.8	4754.1	4621.6
65°	2898.8	1763.3	1459.2	1413.1	1576.3	1862.3	2944.8	3760.9	3529.3	3419.1
67.5°	1820.5	1286.2	986.3	899.8	1096.5	1282.0	1934.9	2363.1	2103.7	1951.6
70°	1079.7	718.4	446.4	400.4	450.6	683.5	1083.9	1178.8	975.1	897.0
72.5°	425.5	263.7	124.2	106.0	110.2	239.9	399.0	389.2	294.3	262.3
75°	114.4	79.5	43.2	34.9	29.3	44.6	64.2	41.8	15.3	19.5
77.5°	53.0	47.4	37.7	29.3	22.3	16.7	8.4	2.8	2.8	1.4
80°	46.0	40.5	34.9	29.3	22.3	13.9	7.0	1.4	1.4	1.4
82.5°	43.2	37.7	32.1	26.5	20.9	13.9	7.0	1.4	0.0	0.0
85°	18.1	23.7	26.5	25.1	22.3	13.9	7.0	1.4	0.0	0.0
87.5°	9.8	8.4	7.0	5.6	4.2	2.8	2.8	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)