

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: P648271

Luminaire Tested: **GALN-SA2B-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6434.7 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

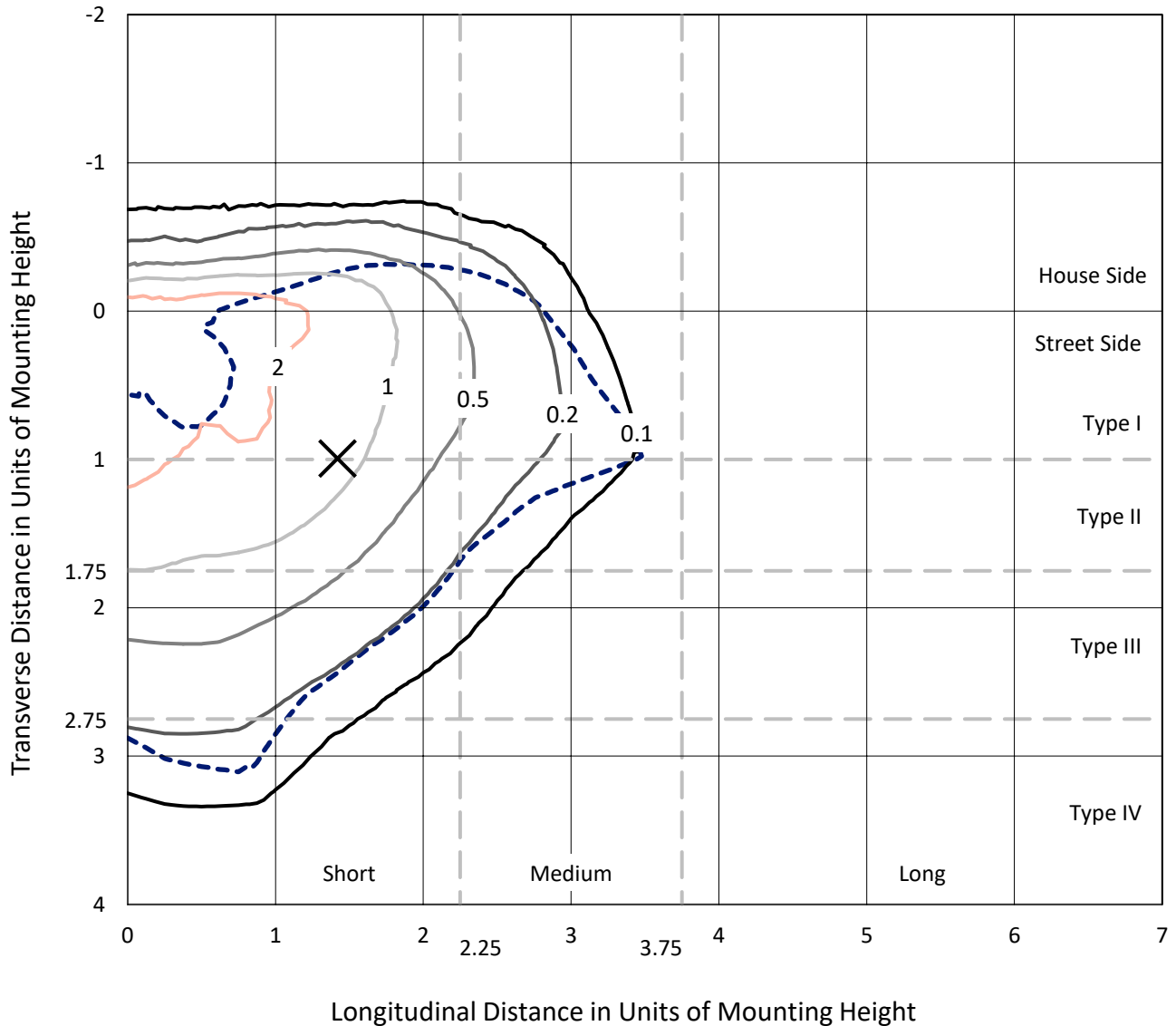
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

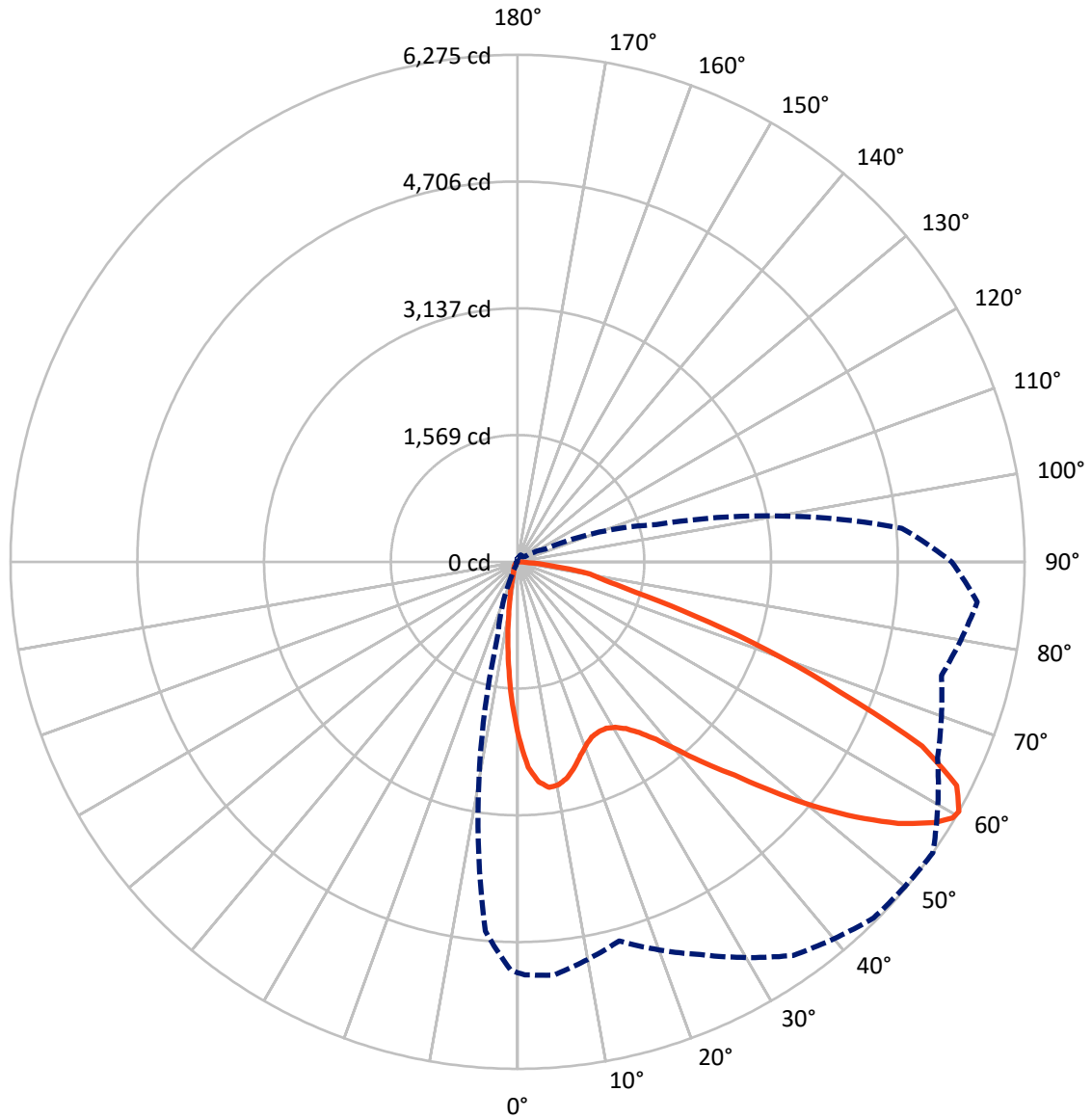
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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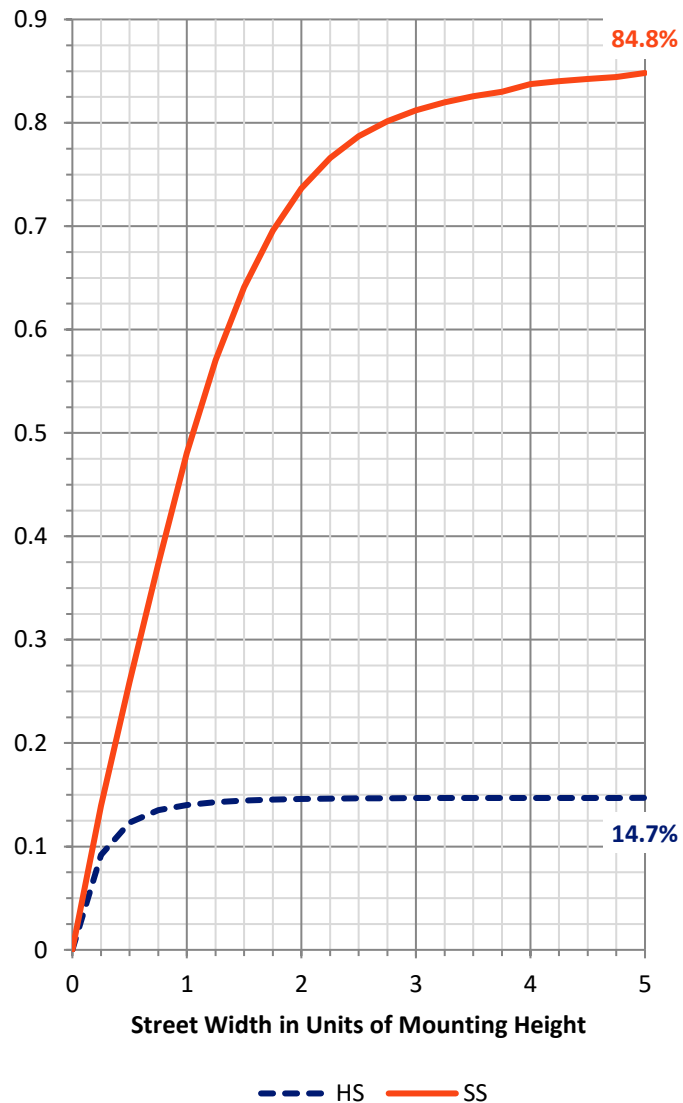
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	955.0	0.0	955.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	5479.7	0.0	5479.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	6434.7	0.0	6434.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	2.5
10°-20°	317.7	4.9
20°-30°	470.3	7.3
30°-40°	701.0	10.9
40°-50°	1026.6	16.0
50°-60°	1482.1	23.0
60°-70°	1559.1	24.2
70°-80°	641.4	10.0
80°-90°	75.1	1.2
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°	6434.7	100.0
0°-180°	6434.7	100.0

Coefficient of Utilization

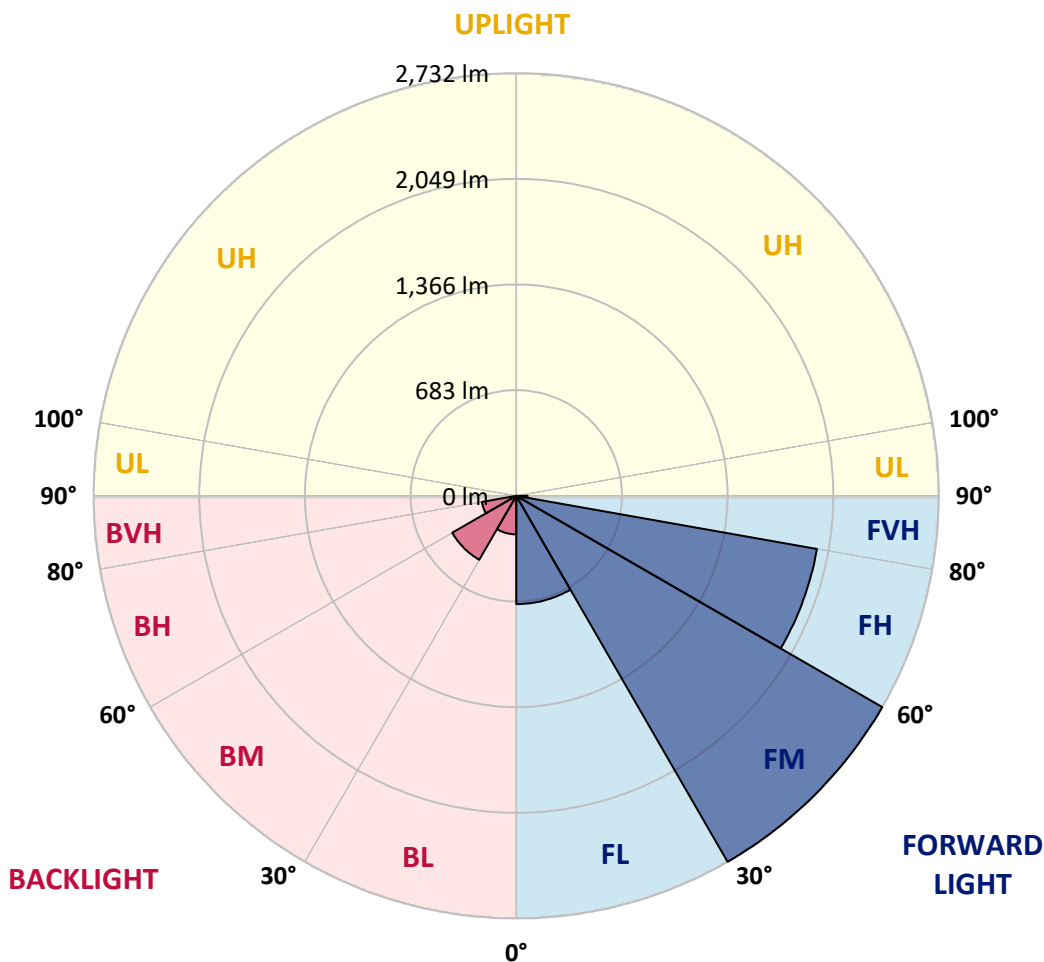


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	700.2	10.9			
FM (30°-60°)	2732.2	42.5			
FH (60°-80°)	1974.5	30.7			G2/5000
FVH (80°-90°)	72.9	1.1			G1/100
BL (0°-30°)	249.2	3.9	B1/500		
BM (30°-60°)	477.6	7.4	B1/1000		
BH (60°-80°)	226.0	3.5	B1/500		G1/500
BVH (80°-90°)	2.2	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8
2.5°	2380.3	2376.4	2411.6	2469.0	2527.0	2557.2	2551.2	2548.7	2500.7	2465.5	2391.8
5°	2375.4	2395.7	2458.6	2614.1	2732.0	2789.0	2805.8	2734.9	2641.4	2505.7	2338.3
7.5°	2233.3	2258.5	2361.1	2604.3	2813.7	2937.6	2933.1	2819.7	2626.5	2416.5	2177.8
10°	2056.9	2086.6	2207.0	2502.2	2774.1	2937.6	2946.4	2802.8	2562.6	2293.2	2042.1
12.5°	1932.6	1967.8	2101.0	2407.1	2672.1	2833.1	2843.5	2739.4	2514.6	2245.6	1968.3
15°	1890.5	1923.7	2058.9	2359.0	2563.6	2650.3	2647.8	2636.9	2495.7	2257.0	1972.2
17.5°	1962.8	1990.1	2142.6	2380.9	2462.1	2453.1	2466.1	2518.5	2499.7	2352.6	2097.0
20°	2149.6	2177.3	2341.2	2447.7	2384.3	2327.9	2333.8	2421.4	2536.4	2532.4	2292.2
22.5°	2406.6	2453.7	2602.2	2577.5	2373.9	2250.1	2237.7	2351.7	2598.8	2739.4	2555.7
25°	2732.0	2779.6	2895.5	2784.5	2425.0	2231.8	2220.4	2330.4	2674.6	2941.5	2852.4
27.5°	3005.4	3041.6	3157.0	2986.1	2500.2	2239.7	2220.9	2333.3	2736.0	3113.4	3102.5
30°	3224.3	3251.1	3318.9	3080.2	2565.1	2274.4	2252.5	2376.9	2763.2	3197.1	3305.0
32.5°	3400.6	3445.7	3467.0	3180.7	2658.2	2339.8	2302.6	2460.6	2829.6	3300.6	3517.5
35°	3602.2	3654.3	3627.0	3276.9	2781.1	2441.8	2396.2	2596.3	2930.1	3396.2	3764.2
37.5°	3857.8	3917.7	3811.3	3377.9	2910.8	2595.3	2574.0	2787.0	3082.7	3532.9	4028.7
40°	4122.3	4156.9	3990.0	3500.7	3070.3	2818.6	2839.0	3070.3	3282.3	3696.9	4310.0
42.5°	4328.8	4361.5	4173.8	3603.7	3233.2	3083.7	3168.3	3412.0	3511.1	3864.7	4520.0
45°	4486.8	4514.5	4301.1	3716.1	3453.1	3467.5	3627.5	3764.2	3740.4	3967.2	4681.9
47.5°	4609.7	4633.4	4399.1	3837.0	3782.5	3937.0	4181.7	4239.6	3978.2	4078.2	4828.5
50°	4660.2	4667.1	4429.8	3991.0	4156.5	4535.4	4790.4	4755.2	4250.6	4201.5	4984.6
52.5°	4726.0	4724.5	4517.5	4137.6	4508.1	5070.2	5324.9	5245.1	4558.6	4386.3	5159.9
55°	4898.9	4900.9	4705.2	4345.7	4807.8	5502.1	5774.5	5716.6	4883.6	4698.3	5364.5
57.5°	5108.9	5116.4	4972.2	4588.8	5094.0	5815.2	6110.4	6088.1	5322.8	5045.5	5557.7
59°	5136.2	5151.0	5098.5	4760.2	5264.0	5911.3	6225.2	6247.1	5558.1	5274.3	5662.1
60°	5086.6	5111.3	5135.1	4857.3	5363.5	5945.9	6232.2	6274.8	5734.9	5429.9	5709.6
62.5°	4870.7	4909.8	5029.1	5156.0	5487.8	5838.0	6010.8	6100.0	5953.9	5838.4	5714.1
65°	4587.8	4608.2	4780.5	5208.9	5246.6	5333.7	5387.3	5501.7	5690.8	5996.0	5509.6
67.5°	4124.3	4184.2	4395.2	4901.3	4534.8	4431.9	4418.5	4304.5	4795.9	5620.5	5005.4
70°	3407.1	3433.8	3693.9	4018.3	3422.4	3263.9	3327.4	3284.8	3717.6	4838.5	4028.7
72.5°	2576.5	2636.9	2891.0	3203.0	2328.9	2123.3	2298.1	2282.3	2792.4	3888.5	2767.7
75°	1833.1	1872.2	2196.1	2506.6	1631.0	1381.8	1444.8	1503.7	1949.4	3070.3	1635.5
77.5°	1259.5	1293.2	1536.4	1657.7	1189.7	1139.7	1042.6	1099.6	1277.3	1821.6	890.0
80°	759.7	758.3	918.2	948.0	828.6	962.3	807.4	906.4	772.1	779.6	344.8
82.5°	493.3	488.4	561.6	612.1	461.1	484.9	325.4	469.0	503.2	217.4	109.0
85°	220.9	230.3	269.9	356.1	202.1	107.5	66.4	144.2	214.5	109.5	0.0
87.5°	22.8	17.9	47.5	86.7	27.7	3.0	9.9	4.9	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°	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8
2.5°	2357.5	2328.9	2243.1	2163.0	2094.1	2009.9	1955.4	1869.7	1817.7	1801.8	1804.3
5°	2262.9	2180.3	2017.3	1887.0	1741.9	1659.2	1533.4	1412.5	1347.2	1322.9	1312.0
7.5°	2064.8	1976.2	1779.6	1575.0	1419.5	1274.4	1180.8	1074.3	1001.5	941.6	931.1
10°	1917.7	1801.4	1557.7	1337.8	1214.9	1106.0	1012.3	905.9	820.2	751.8	733.0
12.5°	1829.6	1699.3	1427.4	1243.2	1126.8	1014.8	893.0	769.7	682.0	608.2	574.0
15°	1813.7	1662.7	1390.8	1175.3	1031.7	896.5	734.5	601.3	511.1	441.3	420.0
17.5°	1909.3	1728.6	1385.3	1104.5	907.3	715.7	547.3	436.8	335.3	296.2	280.9
20°	2079.7	1845.0	1384.8	1022.3	779.6	551.2	384.4	284.8	243.7	224.9	216.0
22.5°	2312.0	2003.5	1411.0	951.4	646.8	406.6	274.4	226.8	203.0	187.7	184.2
25°	2595.8	2238.2	1475.5	903.4	545.3	319.0	226.4	194.2	174.4	167.4	164.4
27.5°	2847.9	2463.1	1546.3	853.9	472.5	282.3	210.0	177.8	161.9	156.5	152.1
30°	3065.4	2667.1	1580.5	788.5	414.1	258.5	213.0	190.2	169.4	153.1	145.6
32.5°	3246.6	2823.7	1602.7	729.1	364.6	211.5	168.4	147.1	137.7	131.8	126.8
35°	3473.5	2993.0	1589.4	695.4	339.3	192.7	153.5	126.8	111.0	99.0	94.1
37.5°	3711.2	3162.4	1566.1	667.7	327.8	178.8	146.1	120.3	103.0	90.7	84.2
40°	3957.4	3319.5	1538.8	641.9	317.5	169.9	141.6	114.9	97.6	84.2	77.3
42.5°	4182.7	3472.4	1527.9	625.1	300.7	171.4	138.2	112.4	92.2	78.2	72.3
45°	4365.0	3617.6	1542.8	616.1	282.3	168.9	139.1	109.5	87.7	74.3	68.4
47.5°	4559.6	3822.6	1590.9	607.2	264.5	157.0	146.6	109.0	85.7	71.8	65.4
50°	4785.9	4085.1	1700.8	585.4	242.7	144.2	156.1	108.4	83.2	68.8	62.4
52.5°	5087.6	4383.3	1814.2	547.3	211.0	131.8	149.1	107.0	78.2	65.4	59.0
55°	5358.5	4697.3	1910.3	502.2	170.9	113.9	134.2	100.5	69.8	59.4	53.5
57.5°	5470.4	4874.6	1907.4	439.8	136.7	100.1	110.5	92.2	60.9	52.5	47.5
59°	5429.3	4852.3	1843.5	393.8	124.8	92.6	91.6	91.1	56.9	47.5	43.6
60°	5371.4	4771.1	1774.6	371.0	117.4	87.7	84.2	90.1	53.5	44.6	40.6
62.5°	5149.5	4434.3	1546.3	332.3	107.5	74.3	67.3	76.3	47.5	38.6	35.2
65°	4828.1	3916.7	1309.0	321.4	104.5	61.4	56.0	54.5	40.6	32.7	29.8
67.5°	4201.0	3314.4	1060.4	314.0	105.5	51.5	49.0	41.1	33.7	27.2	25.3
70°	3363.5	2584.4	868.3	305.6	106.5	42.1	41.1	32.7	27.2	22.8	20.8
72.5°	2043.6	1531.9	683.5	265.4	103.5	33.7	36.6	24.7	19.8	16.4	15.3
75°	1263.4	1048.5	424.0	206.6	68.4	24.7	25.8	15.3	13.4	10.4	10.4
77.5°	732.0	662.2	151.6	74.3	30.2	14.9	11.4	7.9	7.4	4.5	4.5
80°	303.6	243.2	52.5	25.3	16.4	7.0	2.5	0.5	0.0	0.0	0.0
82.5°	88.6	78.8	14.3	11.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8
2.5°	1762.2	1745.9	1738.5	1763.7	1740.5	1770.1	1747.3	1757.3	1786.5	1799.4	1832.5
5°	1319.0	1302.1	1294.2	1332.4	1330.3	1349.2	1347.2	1364.5	1379.4	1346.2	1380.4
7.5°	918.8	907.3	926.2	955.9	987.6	977.2	977.2	953.9	961.8	956.9	955.4
10°	698.8	659.8	649.8	648.8	660.7	663.2	649.8	617.6	629.5	633.0	653.8
12.5°	549.7	519.5	473.5	452.7	447.2	451.7	407.6	379.4	392.8	384.8	405.1
15°	394.2	369.5	342.2	319.0	312.5	303.6	255.6	221.9	217.9	219.4	222.8
17.5°	281.3	264.5	264.5	239.8	226.4	199.6	175.3	160.4	158.9	160.4	162.9
20°	207.5	198.6	197.6	191.2	176.3	158.5	141.6	138.7	137.7	140.2	141.2
22.5°	178.8	169.4	161.5	161.0	147.1	132.2	124.3	120.3	120.8	121.8	124.3
25°	160.0	150.1	141.6	136.7	126.8	116.4	109.0	107.0	107.0	108.4	109.0
27.5°	146.6	134.2	126.8	119.9	111.0	102.0	95.6	94.1	93.1	94.1	96.5
30°	137.2	124.8	115.4	105.0	98.0	89.7	84.2	82.2	81.7	82.2	84.2
32.5°	117.4	109.9	102.5	93.1	84.7	79.2	73.3	69.8	69.8	70.9	72.8
35°	88.6	84.7	84.2	81.7	74.8	68.8	61.9	58.4	58.4	60.4	61.4
37.5°	78.2	70.9	69.8	68.8	65.9	57.9	51.5	48.5	48.1	49.6	51.5
40°	71.3	62.9	58.4	57.5	57.9	49.0	42.1	39.2	39.2	39.6	41.6
42.5°	65.9	56.0	48.1	47.1	49.0	41.1	34.1	31.2	31.2	31.2	33.7
45°	61.4	50.0	40.6	35.6	38.6	33.7	27.7	24.7	23.8	24.7	25.8
47.5°	58.4	45.6	35.6	28.7	28.7	26.8	22.3	18.8	17.9	18.3	19.8
50°	56.0	41.6	30.2	23.3	20.8	21.3	16.8	14.3	13.4	13.4	14.9
52.5°	52.0	37.7	26.2	19.8	15.8	14.3	12.4	10.4	9.9	10.4	11.4
55°	47.1	34.1	22.8	16.4	12.4	9.9	8.9	7.4	7.0	7.4	8.9
57.5°	41.6	28.7	18.3	12.8	8.5	6.4	6.0	4.9	4.0	4.5	5.5
59°	38.1	25.8	15.8	10.4	6.4	4.5	4.5	3.4	2.5	3.0	4.5
60°	36.6	23.8	13.4	8.9	5.5	3.4	3.4	2.5	1.5	2.0	3.4
62.5°	31.2	19.8	10.4	5.5	2.5	0.5	1.5	0.5	0.0	0.5	1.5
65°	26.2	15.8	7.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
67.5°	21.8	11.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.3	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P648271
 CATALOG NUMBER: GALN-SA2B-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8
2.5°	1834.6	1905.4	1949.0	2031.2	2115.4	2180.3	2261.5	2334.3	2364.5	2380.3
5°	1415.0	1513.6	1597.3	1722.6	1839.0	1980.7	2124.3	2293.6	2358.6	2375.4
7.5°	993.1	1093.6	1181.2	1326.4	1492.3	1682.0	1897.0	2111.9	2206.5	2233.3
10°	717.1	824.7	931.6	1076.8	1231.8	1437.4	1661.2	1927.2	2036.1	2056.9
12.5°	452.7	568.1	742.0	921.2	1085.2	1250.6	1484.9	1774.1	1894.5	1932.6
15°	262.5	348.7	479.9	713.7	922.2	1141.1	1396.7	1716.6	1851.4	1890.5
17.5°	175.9	205.5	295.7	474.5	749.9	1040.1	1374.4	1763.7	1912.8	1962.8
20°	148.1	161.5	193.2	289.2	577.5	949.9	1380.4	1891.5	2087.2	2149.6
22.5°	130.3	142.7	162.9	208.0	403.2	838.0	1408.6	2074.2	2326.8	2406.6
25°	114.9	127.3	145.1	172.3	270.9	708.8	1470.5	2341.7	2644.3	2732.0
27.5°	102.0	113.5	128.8	152.1	208.5	564.6	1525.5	2602.2	2934.1	3005.4
30°	90.1	99.5	114.4	132.2	173.4	435.3	1553.2	2830.1	3145.1	3224.3
32.5°	78.2	87.1	101.6	115.9	142.7	331.8	1533.9	2997.5	3350.1	3400.6
35°	66.9	76.3	88.2	101.6	123.3	267.9	1437.4	3185.7	3562.6	3602.2
37.5°	57.5	65.4	77.8	88.2	111.4	214.5	1320.5	3355.1	3800.8	3857.8
40°	48.5	56.5	68.8	78.2	102.5	168.9	1214.9	3543.3	4051.9	4122.3
42.5°	39.6	49.0	59.9	75.2	88.2	128.8	1087.1	3695.8	4240.6	4328.8
45°	31.7	42.1	53.9	74.8	76.7	98.0	963.8	3814.7	4407.6	4486.8
47.5°	25.3	35.6	52.0	69.8	62.9	77.8	893.5	3939.0	4546.3	4609.7
50°	20.3	29.8	54.5	61.4	52.5	65.9	891.5	4077.7	4618.1	4660.2
52.5°	16.4	24.3	46.0	47.1	44.6	57.9	945.0	4233.7	4691.3	4726.0
55°	13.9	20.3	30.2	34.7	40.1	52.5	985.1	4473.9	4866.2	4898.9
57.5°	10.9	17.3	23.3	27.7	35.6	48.1	990.6	4659.2	5087.6	5108.9
59°	9.4	14.9	20.8	24.7	32.7	45.1	968.3	4670.6	5101.9	5136.2
60°	7.9	13.4	18.3	23.3	30.2	42.6	944.0	4587.8	5048.5	5086.6
62.5°	6.0	10.4	13.4	18.8	24.7	36.6	829.1	4299.1	4843.9	4870.7
65°	4.0	7.4	9.9	13.9	19.3	31.7	675.6	3924.6	4527.9	4587.8
67.5°	2.5	5.5	7.9	10.4	15.8	26.8	481.4	3365.5	4085.6	4124.3
70°	1.5	3.4	6.0	8.5	12.4	21.3	285.8	2660.2	3399.2	3407.1
72.5°	1.0	2.5	4.0	6.0	9.9	19.3	138.7	1734.0	2481.9	2576.5
75°	0.5	1.5	2.5	4.5	7.9	15.8	66.4	1158.4	1805.8	1833.1
77.5°	0.0	0.5	1.5	3.0	6.0	12.4	38.6	760.8	1231.3	1259.5
80°	0.0	0.0	1.0	2.5	4.5	7.9	23.3	448.7	745.9	759.7
82.5°	0.0	0.0	0.5	2.0	3.0	6.0	11.9	197.2	488.4	493.3
85°	0.0	0.0	0.5	2.0	2.5	4.0	4.5	26.8	217.0	220.9
87.5°	0.0	0.0	0.5	2.5	2.5	2.5	2.5	1.5	18.3	22.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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