

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: P646786

Luminaire Tested: **GALN-SA2C-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646786
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-SA2C-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA 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: 7949.8 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

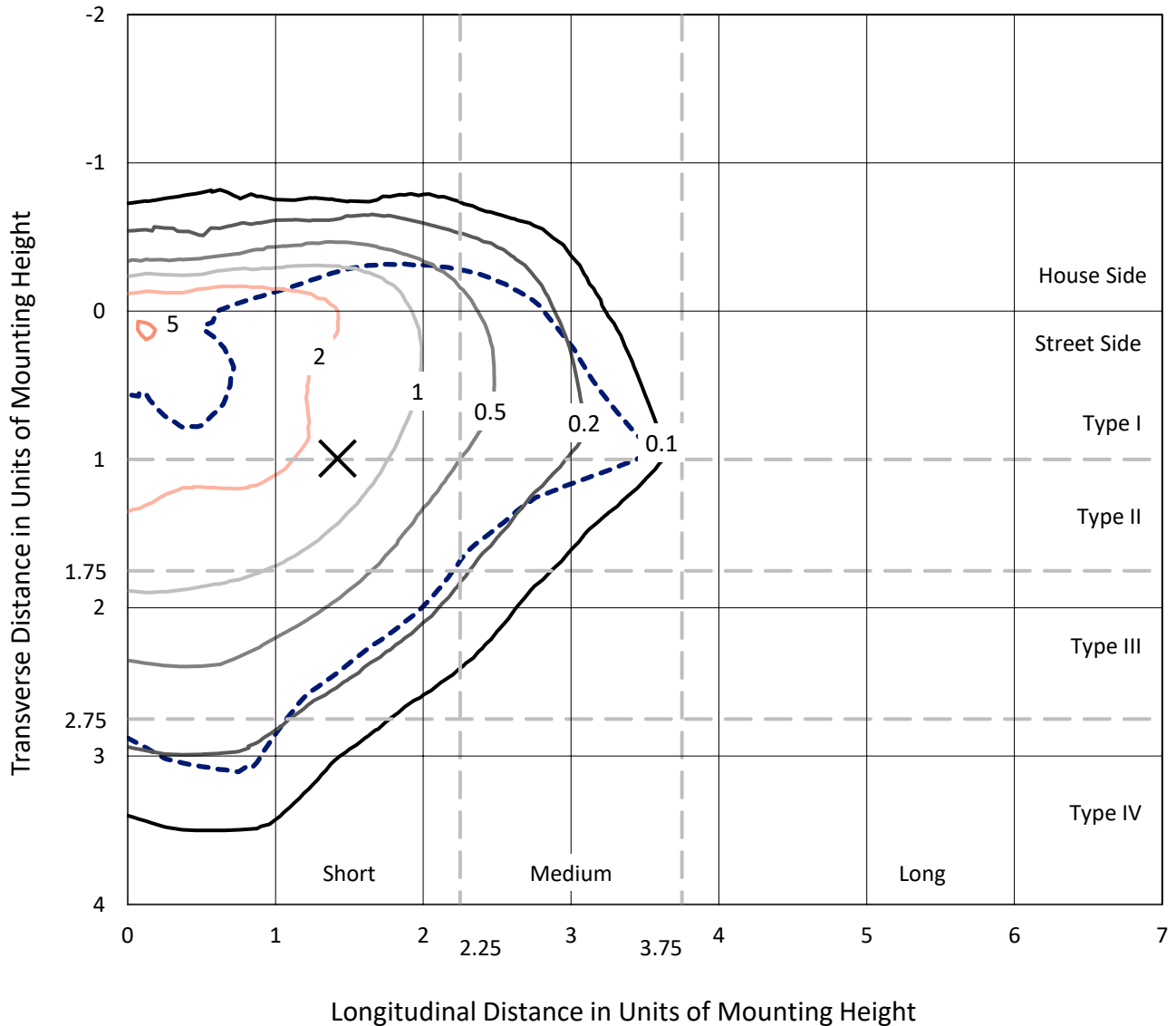
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646786
 CATALOG NUMBER: GALN-SA2C-835-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

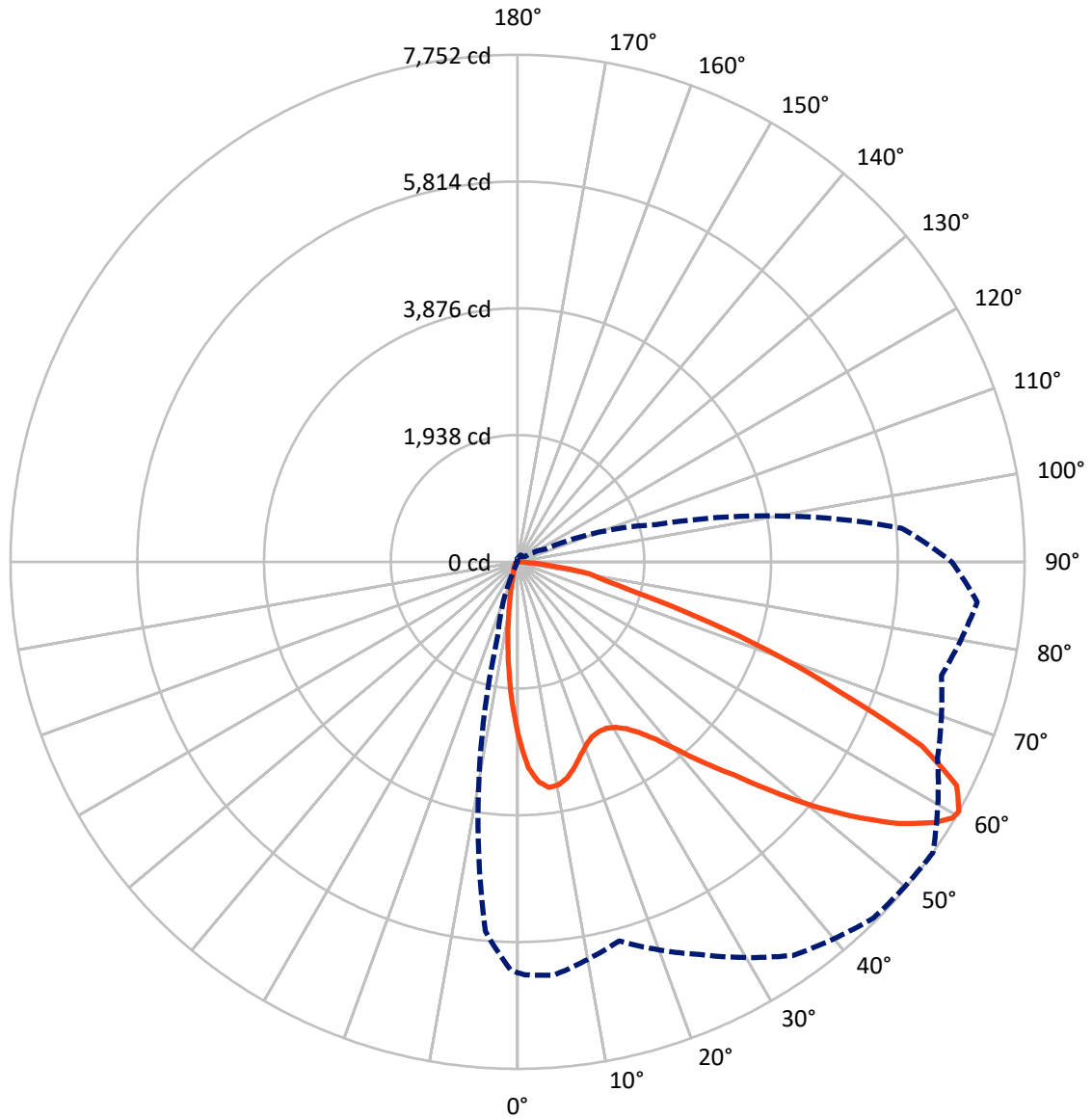
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

REPORT NUMBER: P646786
CATALOG NUMBER: GALN-SA2C-835-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P646786
 CATALOG NUMBER: GALN-SA2C-835-U-SLL-HSS

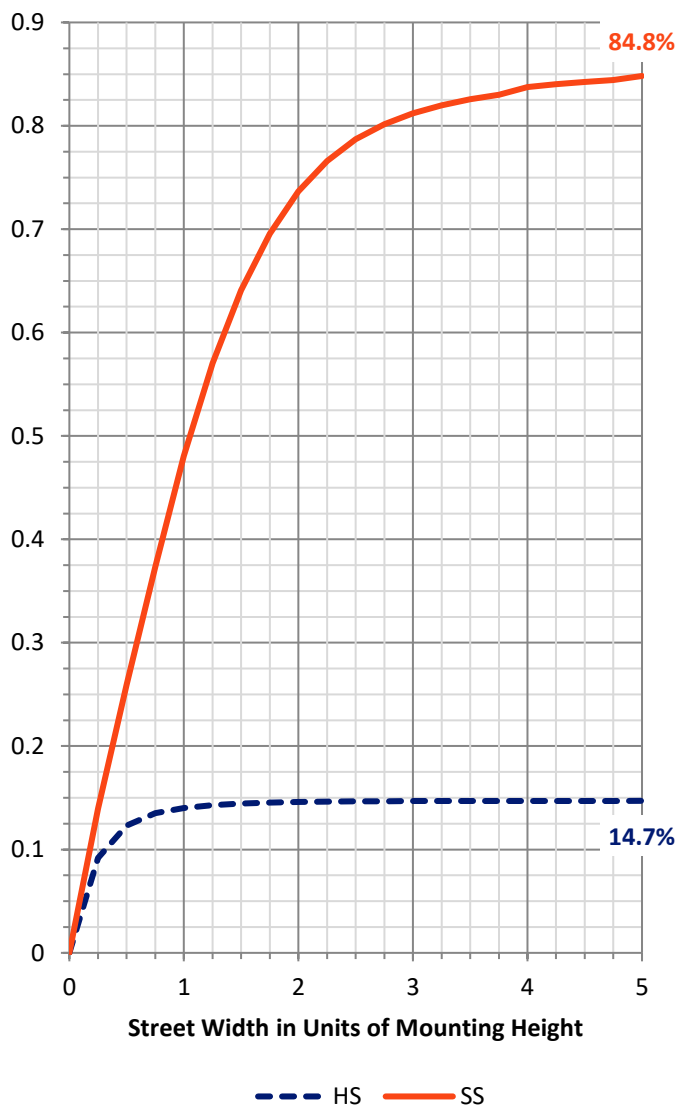
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1179.8	0.0	1179.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	6770.0	0.0	6770.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	7949.8	0.0	7949.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	2.5
10°-20°	392.5	4.9
20°-30°	581.0	7.3
30°-40°	866.1	10.9
40°-50°	1268.4	16.0
50°-60°	1831.1	23.0
60°-70°	1926.2	24.2
70°-80°	792.4	10.0
80°-90°	92.8	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°	7949.8	100.0
0°-180°	7949.8	100.0

Coefficient of Utilization



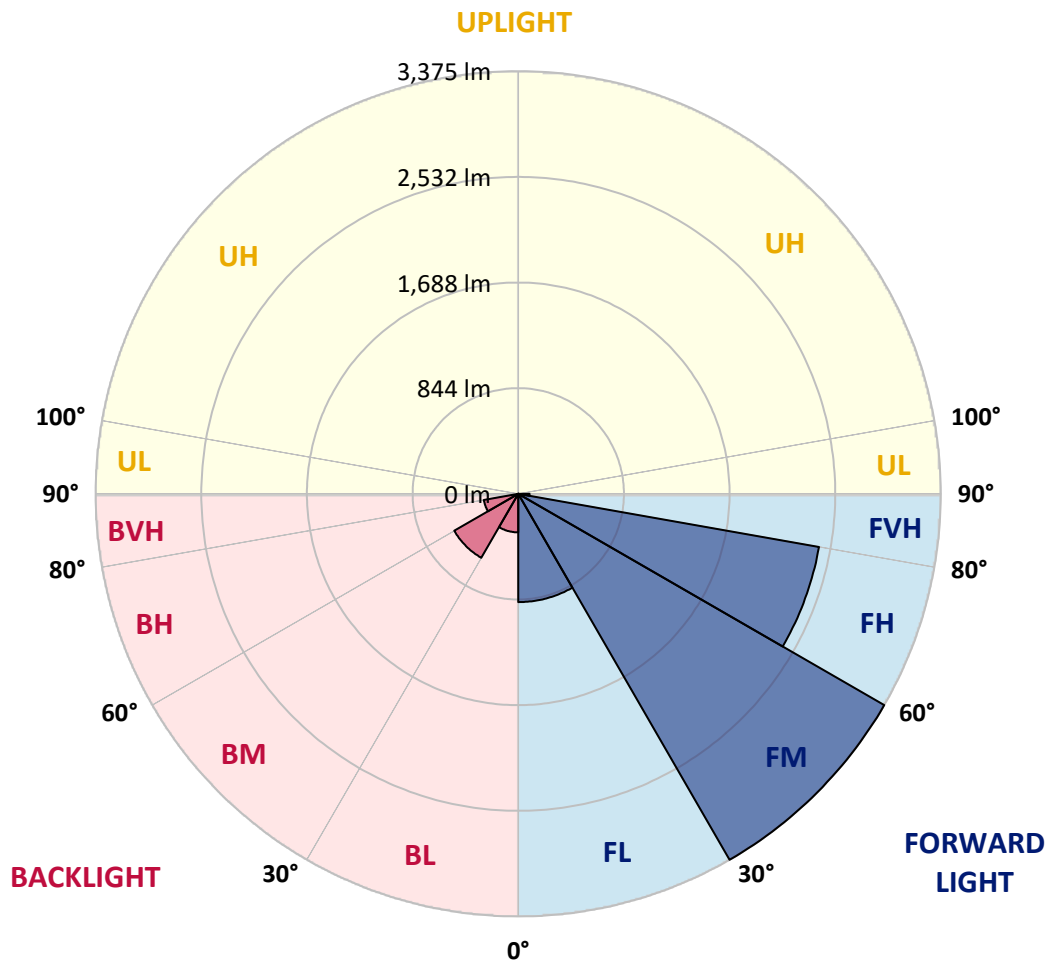
REPORT NUMBER: P646786
 CATALOG NUMBER: GALN-SA2C-835-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	865.1	10.9			
FM (30°-60°)	3375.5	42.5			
FH (60°-80°)	2439.4	30.7			G2/5000
FVH (80°-90°)	90.1	1.1			G1/100
BL (0°-30°)	307.8	3.9	B1/500		
BM (30°-60°)	590.0	7.4	B1/1000		
BH (60°-80°)	279.3	3.5	B1/500		G1/500
BVH (80°-90°)	2.7	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





REPORT NUMBER: P646786

CATALOG NUMBER: GALN-SA2C-835-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8
2.5°	2940.8	2935.9	2979.4	3050.3	3122.0	3159.2	3152.0	3148.9	3089.5	3046.1	2954.9
5°	2934.7	2959.8	3037.5	3229.6	3375.3	3445.7	3466.4	3379.0	3263.3	3095.7	2888.8
7.5°	2759.1	2790.3	2917.0	3217.4	3476.2	3629.2	3623.7	3483.6	3244.9	2985.5	2690.5
10°	2541.2	2577.9	2726.6	3091.4	3427.3	3629.2	3640.2	3462.8	3166.0	2833.1	2522.9
12.5°	2387.7	2431.1	2595.7	2973.8	3301.2	3500.1	3512.9	3384.4	3106.6	2774.4	2431.7
15°	2335.7	2376.6	2543.7	2914.5	3167.2	3274.3	3271.2	3257.8	3083.4	2788.5	2436.6
17.5°	2425.0	2458.6	2647.1	2941.4	3041.8	3030.8	3046.7	3111.6	3088.3	2906.6	2590.8
20°	2655.7	2689.9	2892.5	3024.0	2945.7	2876.0	2883.3	2991.6	3133.6	3128.7	2831.9
22.5°	2973.3	3031.4	3215.0	3184.4	2932.9	2779.9	2764.6	2905.3	3210.7	3384.4	3157.4
25°	3375.3	3434.0	3577.2	3440.1	2995.9	2757.3	2743.2	2879.0	3304.3	3634.1	3524.0
27.5°	3713.1	3757.7	3900.3	3689.2	3088.9	2767.0	2743.8	2882.7	3380.2	3846.5	3833.0
30°	3983.5	4016.6	4100.4	3805.5	3169.0	2809.9	2782.9	2936.6	3413.8	3949.8	4083.3
32.5°	4201.3	4257.0	4283.3	3929.6	3284.1	2890.7	2844.8	3039.9	3495.9	4077.8	4345.7
35°	4450.4	4514.6	4481.0	4048.3	3435.9	3016.7	2960.4	3207.6	3620.0	4195.9	4650.5
37.5°	4766.1	4840.2	4708.6	4173.2	3596.2	3206.4	3180.1	3443.2	3808.5	4364.8	4977.2
40°	5092.9	5135.8	4929.5	4325.0	3793.2	3482.4	3507.4	3793.2	4055.1	4567.2	5324.8
42.5°	5348.0	5388.4	5156.5	4452.2	3994.6	3809.8	3914.4	4215.4	4337.8	4774.7	5584.3
45°	5543.2	5577.5	5313.8	4591.1	4266.3	4283.9	4481.6	4650.5	4621.1	4901.3	5784.3
47.5°	5695.0	5724.4	5435.0	4740.4	4673.1	4864.1	5166.3	5238.0	4914.8	5038.4	5965.5
50°	5757.4	5766.0	5472.9	4930.8	5135.1	5603.2	5918.4	5874.9	5251.4	5190.8	6158.2
52.5°	5838.8	5837.0	5581.2	5111.9	5569.6	6264.1	6578.6	6480.1	5632.0	5419.1	6374.9
55°	6052.4	6054.9	5813.1	5368.9	5939.8	6797.7	7134.2	7062.7	6033.4	5804.5	6627.5
57.5°	6311.8	6321.0	6142.9	5669.3	6293.4	7184.4	7549.1	7521.6	6576.2	6233.5	6866.2
59°	6345.5	6363.8	6299.0	5881.0	6503.4	7303.1	7691.1	7718.0	6866.8	6516.2	6995.3
60°	6284.3	6314.9	6344.3	6001.0	6626.4	7345.9	7699.6	7752.2	7085.3	6708.4	7054.0
62.5°	6017.5	6065.8	6213.3	6369.9	6779.9	7212.5	7426.1	7536.2	7355.7	7213.2	7059.6
65°	5668.1	5693.2	5906.1	6435.4	6481.9	6589.6	6655.7	6797.1	7030.8	7407.7	6806.9
67.5°	5095.4	5169.4	5430.0	6055.4	5602.6	5475.4	5458.8	5318.1	5925.1	6944.0	6183.9
70°	4209.3	4242.4	4563.6	4964.4	4228.3	4032.4	4110.8	4058.1	4593.0	5977.7	4977.2
72.5°	3183.1	3257.8	3571.7	3957.2	2877.2	2623.3	2839.2	2819.7	3449.9	4804.1	3419.4
75°	2264.7	2313.0	2713.2	3096.8	2015.0	1707.3	1784.9	1857.7	2408.4	3793.2	2020.5
77.5°	1556.1	1597.7	1898.1	2048.0	1469.8	1408.0	1288.0	1358.4	1578.1	2250.6	1099.6
80°	938.7	936.9	1134.5	1171.2	1023.7	1188.9	997.4	1119.8	953.9	963.2	425.9
82.5°	609.5	603.3	693.9	756.3	569.7	599.1	402.0	579.5	621.7	268.6	134.6
85°	272.9	284.5	333.5	440.0	249.6	132.8	82.0	178.1	265.0	135.2	0.0
87.5°	28.1	22.0	58.7	107.1	34.3	3.7	12.2	6.1	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: P646786

CATALOG NUMBER: GALN-SA2C-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8
2.5°	2912.7	2877.2	2771.4	2672.2	2587.1	2483.1	2415.8	2309.9	2245.7	2226.1	2229.2
5°	2795.8	2693.6	2492.3	2331.4	2152.1	2049.9	1894.5	1745.2	1664.4	1634.4	1621.0
7.5°	2551.0	2441.5	2198.6	1945.8	1753.8	1574.5	1458.8	1327.3	1237.3	1163.2	1150.4
10°	2369.3	2225.5	1924.5	1652.8	1501.0	1366.4	1250.8	1119.1	1013.3	928.9	905.6
12.5°	2260.4	2099.5	1763.6	1535.9	1392.1	1253.8	1103.2	950.9	842.6	751.4	709.2
15°	2240.8	2054.2	1718.2	1452.1	1274.6	1107.6	907.5	742.8	631.5	545.2	518.9
17.5°	2358.9	2135.6	1711.5	1364.5	1121.0	884.2	676.1	539.7	414.3	365.9	346.9
20°	2569.4	2279.4	1710.9	1263.0	963.2	681.1	474.8	351.9	301.1	277.8	266.8
22.5°	2856.4	2475.1	1743.3	1175.4	799.1	502.4	339.0	280.2	250.9	231.9	227.6
25°	3207.0	2765.2	1822.9	1116.1	673.7	394.1	279.6	239.8	215.4	206.8	203.2
27.5°	3518.5	3043.1	1910.4	1054.9	583.7	348.7	259.5	219.7	200.1	193.4	187.8
30°	3787.1	3295.1	1952.6	974.1	511.5	319.4	263.1	235.0	209.3	189.1	179.9
32.5°	4011.1	3488.5	1980.1	900.8	450.4	261.3	208.0	181.7	170.1	162.8	156.7
35°	4291.3	3697.7	1963.6	859.1	419.1	238.0	189.7	156.7	137.1	122.4	116.3
37.5°	4585.0	3907.0	1934.9	824.8	405.0	220.9	180.5	148.7	127.3	112.0	104.1
40°	4889.1	4101.0	1901.2	793.0	392.2	209.9	175.0	142.0	120.6	104.1	95.4
42.5°	5167.6	4290.1	1887.7	772.2	371.5	211.7	170.7	138.9	113.8	96.7	89.3
45°	5392.8	4469.4	1906.1	761.2	348.7	208.7	171.9	135.2	108.3	91.8	84.4
47.5°	5633.2	4722.7	1965.4	750.2	326.7	193.9	181.1	134.6	105.9	88.7	80.8
50°	5912.8	5047.0	2101.3	723.3	299.8	178.1	192.8	134.0	102.8	85.0	77.1
52.5°	6285.5	5415.4	2241.4	676.1	260.7	162.8	184.2	132.2	96.7	80.8	72.8
55°	6620.2	5803.4	2360.1	620.4	211.1	140.7	165.8	124.2	86.3	73.4	66.1
57.5°	6758.5	6022.4	2356.4	543.4	168.9	123.6	136.5	113.8	75.2	64.8	58.7
59°	6707.7	5994.9	2277.5	486.5	154.2	114.4	113.2	112.6	70.4	58.7	53.9
60°	6636.2	5894.5	2192.5	458.3	145.0	108.3	104.1	111.3	66.1	55.0	50.2
62.5°	6362.0	5478.4	1910.4	410.6	132.8	91.8	83.2	94.2	58.7	47.8	43.5
65°	5964.9	4838.9	1617.3	397.1	129.1	75.9	69.1	67.3	50.2	40.4	36.7
67.5°	5190.2	4094.9	1310.1	388.0	130.4	63.7	60.6	50.8	41.6	33.7	31.2
70°	4155.5	3192.9	1072.7	377.6	131.5	52.0	50.8	40.4	33.7	28.1	25.7
72.5°	2524.7	1892.7	844.5	328.0	127.9	41.6	45.3	30.6	24.5	20.2	18.9
75°	1561.0	1295.4	523.8	255.2	84.4	30.6	31.8	18.9	16.5	12.8	12.8
77.5°	904.4	818.2	187.2	91.8	37.3	18.3	14.1	9.8	9.2	5.5	5.5
80°	375.1	300.4	64.8	31.2	20.2	8.5	3.1	0.6	0.0	0.0	0.0
82.5°	109.5	97.3	17.8	14.1	6.1	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: P646786
 CATALOG NUMBER: GALN-SA2C-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8
2.5°	2177.1	2157.0	2147.8	2179.0	2150.3	2186.9	2158.8	2171.0	2207.1	2223.1	2264.0
5°	1629.5	1608.7	1598.9	1646.0	1643.6	1666.9	1664.4	1685.8	1704.2	1663.2	1705.4
7.5°	1135.1	1121.0	1144.3	1181.0	1220.1	1207.3	1207.3	1178.6	1188.4	1182.2	1180.4
10°	863.4	815.0	802.8	801.6	816.3	819.3	802.8	763.0	777.8	782.0	807.7
12.5°	679.3	641.9	585.0	559.3	552.6	558.0	503.6	468.7	485.2	475.4	500.6
15°	487.1	456.5	422.8	394.1	386.1	375.1	315.7	274.1	269.3	271.1	275.4
17.5°	347.6	326.7	326.7	296.1	279.6	246.6	216.6	198.3	196.5	198.3	201.3
20°	256.4	245.4	244.1	236.2	217.8	195.8	175.0	171.3	170.1	173.2	174.4
22.5°	220.9	209.3	199.5	198.9	181.7	163.4	153.6	148.7	149.3	150.5	153.6
25°	197.6	185.4	175.0	168.9	156.7	143.8	134.6	132.2	132.2	134.0	134.6
27.5°	181.1	165.8	156.7	148.1	137.1	126.1	118.1	116.3	115.0	116.3	119.3
30°	169.5	154.2	142.6	129.7	121.1	110.7	104.1	101.6	100.9	101.6	104.1
32.5°	145.0	135.9	126.7	115.0	104.6	97.9	90.6	86.3	86.3	87.5	90.0
35°	109.5	104.6	104.1	100.9	92.4	85.0	76.5	72.2	72.2	74.6	75.9
37.5°	96.7	87.5	86.3	85.0	81.4	71.6	63.7	60.0	59.4	61.2	63.7
40°	88.1	77.7	72.2	71.0	71.6	60.6	52.0	48.3	48.3	48.9	51.4
42.5°	81.4	69.1	59.4	58.1	60.6	50.8	42.2	38.5	38.5	38.5	41.6
45°	75.9	61.8	50.2	44.1	47.8	41.6	34.3	30.6	29.4	30.6	31.8
47.5°	72.2	56.3	44.1	35.5	35.5	33.0	27.6	23.3	22.0	22.6	24.5
50°	69.1	51.4	37.3	28.7	25.7	26.3	20.8	17.8	16.5	16.5	18.3
52.5°	64.3	46.5	32.4	24.5	19.6	17.8	15.3	12.8	12.2	12.8	14.1
55°	58.1	42.2	28.1	20.2	15.3	12.2	11.0	9.2	8.5	9.2	11.0
57.5°	51.4	35.5	22.6	15.9	10.4	8.0	7.4	6.1	4.9	5.5	6.7
59°	47.1	31.8	19.6	12.8	8.0	5.5	5.5	4.3	3.1	3.7	5.5
60°	45.3	29.4	16.5	11.0	6.7	4.3	4.3	3.1	1.8	2.4	4.3
62.5°	38.5	24.5	12.8	6.7	3.1	0.6	1.8	0.6	0.0	0.6	1.8
65°	32.4	19.6	8.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6
67.5°	26.9	14.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.7	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: P646786
 CATALOG NUMBER: GALN-SA2C-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8
2.5°	2266.5	2354.0	2407.9	2509.4	2613.4	2693.6	2794.0	2883.9	2921.2	2940.8
5°	1748.2	1870.0	1973.4	2128.2	2272.0	2447.0	2624.5	2833.8	2913.9	2934.7
7.5°	1226.9	1351.1	1459.4	1638.7	1843.7	2078.0	2343.6	2609.2	2726.0	2759.1
10°	886.0	1018.8	1151.0	1330.3	1521.8	1775.8	2052.3	2380.9	2515.5	2541.2
12.5°	559.3	701.9	916.7	1138.2	1340.7	1545.1	1834.5	2191.9	2340.5	2387.7
15°	324.3	430.8	593.0	881.7	1139.3	1409.9	1725.6	2120.8	2287.3	2335.7
17.5°	217.2	253.9	365.3	586.2	926.4	1285.0	1698.0	2179.0	2363.2	2425.0
20°	183.0	199.5	238.7	357.4	713.5	1173.6	1705.4	2336.9	2578.6	2655.7
22.5°	160.9	176.3	201.3	257.0	498.1	1035.4	1740.3	2562.7	2874.7	2973.3
25°	142.0	157.2	179.3	213.0	334.7	875.6	1816.7	2893.1	3267.0	3375.3
27.5°	126.1	140.2	159.1	187.8	257.6	697.6	1884.7	3215.0	3625.0	3713.1
30°	111.3	123.0	141.3	163.4	214.2	537.8	1919.0	3496.4	3885.6	3983.5
32.5°	96.7	107.7	125.4	143.2	176.3	410.0	1895.1	3703.3	4138.9	4201.3
35°	82.6	94.2	108.9	125.4	152.4	331.1	1775.8	3935.7	4401.5	4450.4
37.5°	71.0	80.8	96.1	108.9	137.7	265.0	1631.4	4145.0	4695.8	4766.1
40°	60.0	69.8	85.0	96.7	126.7	208.7	1501.0	4377.6	5006.0	5092.9
42.5°	48.9	60.6	74.1	93.0	108.9	159.1	1343.2	4566.1	5239.1	5348.0
45°	39.2	52.0	66.7	92.4	94.8	121.1	1190.8	4712.9	5445.4	5543.2
47.5°	31.2	44.1	64.3	86.3	77.7	96.1	1103.9	4866.5	5616.7	5695.0
50°	25.1	36.7	67.3	75.9	64.8	81.4	1101.4	5037.8	5705.4	5757.4
52.5°	20.2	30.0	56.9	58.1	55.0	71.6	1167.5	5230.6	5796.0	5838.8
55°	17.1	25.1	37.3	42.8	49.6	64.8	1217.1	5527.4	6012.0	6052.4
57.5°	13.5	21.5	28.7	34.3	44.1	59.4	1223.8	5756.2	6285.5	6311.8
59°	11.6	18.3	25.7	30.6	40.4	55.7	1196.3	5770.3	6303.2	6345.5
60°	9.8	16.5	22.6	28.7	37.3	52.6	1166.3	5668.1	6237.1	6284.3
62.5°	7.4	12.8	16.5	23.3	30.6	45.3	1024.3	5311.3	5984.5	6017.5
65°	4.9	9.2	12.2	17.1	23.9	39.2	834.7	4848.7	5594.1	5668.1
67.5°	3.1	6.7	9.8	12.8	19.6	33.0	594.8	4157.9	5047.6	5095.4
70°	1.8	4.3	7.4	10.4	15.3	26.3	353.1	3286.6	4199.5	4209.3
72.5°	1.3	3.1	4.9	7.4	12.2	23.9	171.3	2142.3	3066.3	3183.1
75°	0.6	1.8	3.1	5.5	9.8	19.6	82.0	1431.2	2231.0	2264.7
77.5°	0.0	0.6	1.8	3.7	7.4	15.3	47.8	939.9	1521.2	1556.1
80°	0.0	0.0	1.3	3.1	5.5	9.8	28.7	554.4	921.5	938.7
82.5°	0.0	0.0	0.6	2.4	3.7	7.4	14.7	243.5	603.3	609.5
85°	0.0	0.0	0.6	2.4	3.1	4.9	5.5	33.0	268.0	272.9
87.5°	0.0	0.0	0.6	3.1	3.1	3.1	3.1	1.8	22.6	28.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)