

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: P458670

Luminaire Tested: **GALN-SA2B-735-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458670  
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-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 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: 7655 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

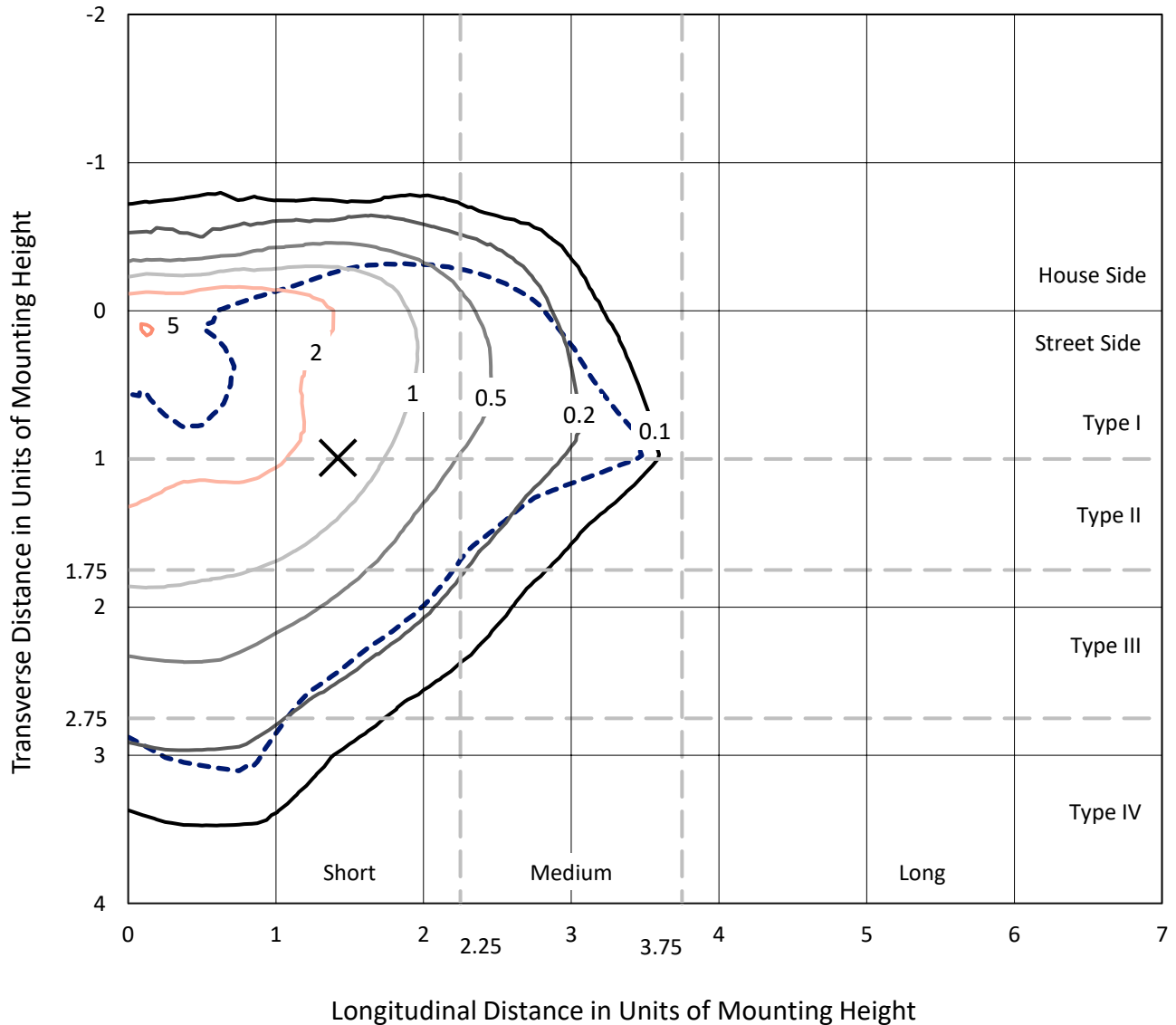
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

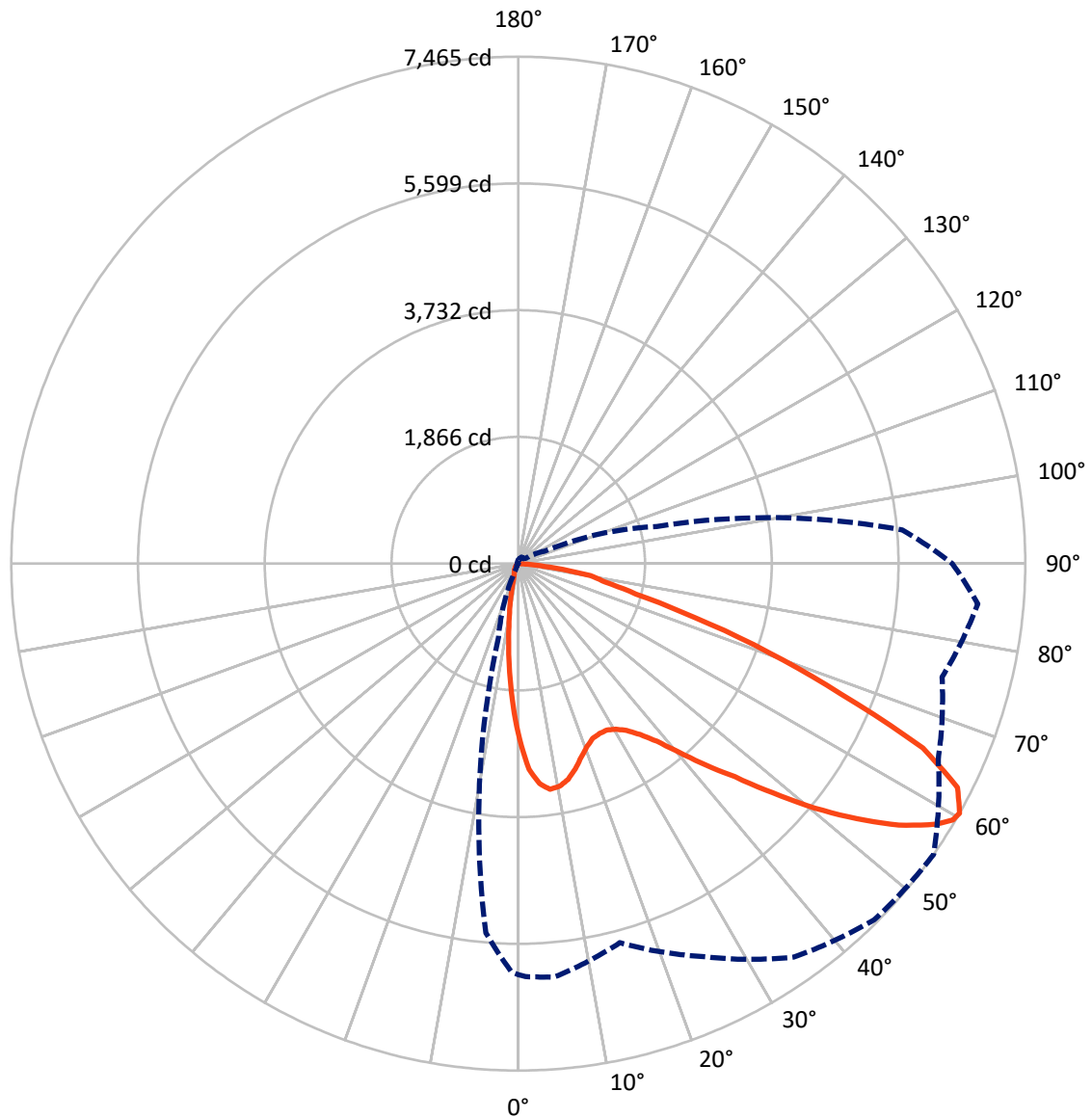
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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
<b>House Side</b>	Lumens	1136.1	0.0	1136.1
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	6518.9	0.0	6518.9
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	7655.0	0.0	7655.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	2.5
10°-20°	378.0	4.9
20°-30°	559.5	7.3
30°-40°	833.9	10.9
40°-50°	1221.3	16.0
50°-60°	1763.2	23.0
60°-70°	1854.8	24.2
70°-80°	763.0	10.0
80°-90°	89.4	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°	7655.0	100.0
0°-180°	7655.0	100.0

**Coefficient of Utilization**



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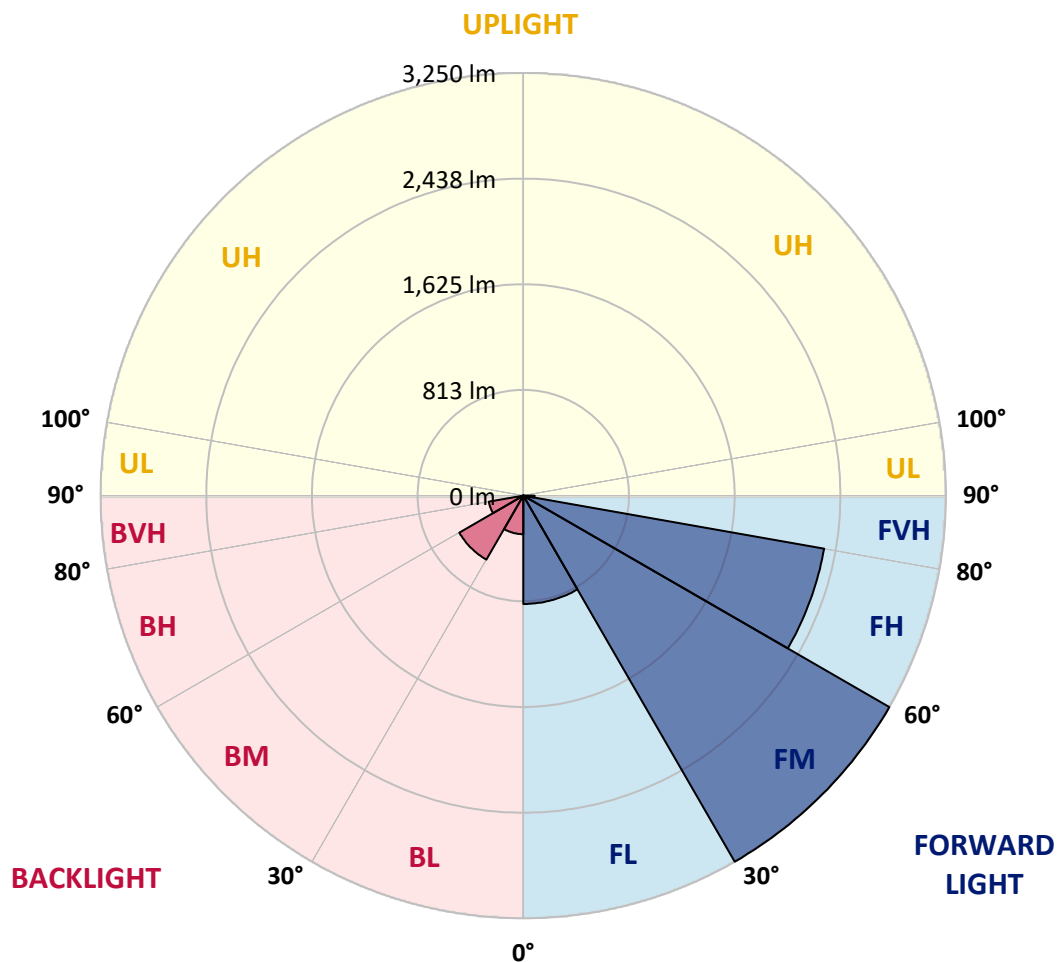
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.0	10.9			
FM (30°-60°)	3250.3	42.5			
FH (60°-80°)	2348.9	30.7			G2/5000
FVH (80°-90°)	86.7	1.1			G1/100
BL (0°-30°)	296.4	3.9	B1/500		
BM (30°-60°)	568.1	7.4	B1/1000		
BH (60°-80°)	268.9	3.5	B1/500		G1/500
BVH (80°-90°)	2.6	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0
2.5°	2831.8	2827.1	2868.9	2937.2	3006.2	3042.1	3035.1	3032.1	2975.0	2933.1	2845.3
5°	2825.9	2850.0	2924.9	3109.9	3250.1	3317.9	3337.9	3253.7	3142.3	2980.8	2781.7
7.5°	2656.8	2686.8	2808.8	3098.1	3347.3	3494.6	3489.3	3354.4	3124.6	2874.8	2590.8
10°	2447.0	2482.4	2625.5	2976.7	3300.2	3494.6	3505.2	3334.4	3048.6	2728.1	2429.3
12.5°	2299.1	2341.0	2499.5	2863.6	3178.8	3370.3	3382.7	3259.0	2991.5	2671.5	2341.5
15°	2249.0	2288.5	2449.4	2806.4	3049.8	3152.9	3149.9	3137.0	2969.1	2685.1	2346.3
17.5°	2335.1	2367.5	2548.9	2832.4	2929.0	2918.4	2933.7	2996.2	2973.8	2798.8	2494.7
20°	2557.2	2590.2	2785.2	2911.9	2836.5	2769.3	2776.4	2880.7	3017.4	3012.7	2726.9
22.5°	2863.0	2919.0	3095.7	3066.3	2824.1	2676.8	2662.1	2797.6	3091.6	3259.0	3040.4
25°	3250.1	3306.7	3444.6	3312.6	2884.8	2655.0	2641.5	2772.3	3181.8	3499.4	3393.3
27.5°	3575.4	3618.4	3755.7	3552.4	2974.4	2664.4	2642.0	2775.8	3254.8	3703.8	3690.8
30°	3835.8	3867.6	3948.3	3664.3	3051.6	2705.7	2679.8	2827.6	3287.2	3803.4	3931.8
32.5°	4045.6	4099.2	4124.5	3783.9	3162.3	2783.5	2739.3	2927.2	3366.2	3926.5	4184.6
35°	4285.4	4347.2	4314.8	3898.3	3308.4	2904.8	2850.6	3088.7	3485.8	4040.3	4478.0
37.5°	4589.4	4660.7	4534.0	4018.5	3462.8	3087.5	3062.2	3315.5	3667.3	4202.9	4792.7
40°	4904.0	4945.3	4746.7	4164.6	3652.6	3353.2	3377.4	3652.6	3904.7	4397.9	5127.4
42.5°	5149.7	5188.6	4965.3	4287.1	3846.4	3668.5	3769.2	4059.1	4177.0	4597.7	5377.2
45°	5337.7	5370.7	5116.8	4420.9	4108.0	4125.1	4315.4	4478.0	4449.8	4719.6	5569.9
47.5°	5483.8	5512.1	5233.4	4564.7	4499.8	4683.7	4974.8	5043.7	4732.6	4851.6	5744.3
50°	5543.9	5552.2	5269.9	4747.9	4944.7	5395.5	5698.9	5657.1	5056.7	4998.3	5929.9
52.5°	5622.3	5620.5	5374.2	4922.3	5363.0	6031.8	6334.7	6239.8	5423.1	5218.1	6138.5
55°	5827.9	5830.3	5597.6	5169.8	5719.5	6545.6	6869.7	6800.7	5809.7	5589.3	6381.8
57.5°	6077.8	6086.6	5915.1	5459.1	6060.1	6918.0	7269.2	7242.6	6332.3	6002.3	6611.6
59°	6110.2	6127.8	6065.4	5663.0	6262.2	7032.3	7405.9	7431.8	6612.2	6274.6	6735.9
60°	6051.2	6080.7	6109.0	5778.4	6380.6	7073.5	7414.1	7464.8	6822.5	6459.6	6792.5
62.5°	5794.4	5840.9	5982.9	6133.7	6528.5	6945.1	7150.7	7256.8	7083.0	6945.7	6797.8
65°	5457.9	5482.1	5687.1	6196.8	6241.6	6345.3	6408.9	6545.0	6770.1	7133.1	6554.4
67.5°	4906.4	4977.7	5228.7	5830.9	5394.9	5272.3	5256.4	5120.9	5705.4	6686.4	5954.6
70°	4053.2	4085.0	4394.4	4780.3	4071.5	3882.9	3958.4	3907.7	4422.7	5756.1	4792.7
72.5°	3065.1	3137.0	3439.3	3810.5	2770.5	2526.0	2734.0	2715.1	3322.0	4625.9	3292.5
75°	2180.7	2227.2	2612.6	2982.0	1940.3	1643.9	1718.7	1788.9	2319.2	3652.6	1945.6
77.5°	1498.4	1538.4	1827.7	1972.1	1415.3	1355.8	1240.3	1308.1	1519.6	2167.1	1058.8
80°	903.9	902.1	1092.4	1127.8	985.8	1144.8	960.4	1078.3	918.6	927.4	410.1
82.5°	586.9	581.0	668.2	728.3	548.6	576.8	387.1	558.0	598.6	258.7	129.6
85°	262.8	274.0	321.1	423.6	240.4	127.9	79.0	171.5	255.1	130.2	0.0
87.5°	27.1	21.2	56.6	103.1	33.0	3.5	11.8	5.9	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°	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0
2.5°	2804.7	2770.5	2668.6	2573.1	2491.2	2391.0	2326.2	2224.3	2162.4	2143.6	2146.5
5°	2692.1	2593.7	2399.9	2244.9	2072.3	1973.9	1824.2	1680.4	1602.7	1573.8	1560.8
7.5°	2456.4	2351.0	2117.1	1873.7	1688.7	1516.1	1404.7	1278.0	1191.4	1120.1	1107.7
10°	2281.4	2143.0	1853.1	1591.5	1445.3	1315.7	1204.4	1077.7	975.7	894.4	872.0
12.5°	2176.6	2021.6	1698.1	1478.9	1340.5	1207.3	1062.4	915.6	811.4	723.6	682.9
15°	2157.7	1978.0	1654.5	1398.2	1227.3	1066.5	873.8	715.3	608.1	525.0	499.7
17.5°	2271.4	2056.4	1648.0	1314.0	1079.4	851.4	651.1	519.7	398.9	352.4	334.1
20°	2474.1	2194.8	1647.4	1216.1	927.4	655.8	457.2	338.8	289.9	267.5	256.9
22.5°	2750.5	2383.4	1678.7	1131.9	769.5	483.7	326.4	269.9	241.6	223.3	219.2
25°	3088.1	2662.7	1755.3	1074.7	648.7	379.5	269.3	231.0	207.4	199.2	195.6
27.5°	3388.0	2930.2	1839.5	1015.8	562.1	335.9	249.8	211.5	192.7	186.2	180.9
30°	3646.7	3172.9	1880.2	938.0	492.6	307.6	253.4	226.3	201.5	182.1	173.2
32.5°	3862.3	3359.1	1906.7	867.3	433.7	251.6	200.3	175.0	163.8	156.7	150.8
35°	4132.2	3560.6	1890.8	827.3	403.6	229.2	182.7	150.8	132.0	117.8	112.0
37.5°	4415.0	3762.1	1863.1	794.3	390.1	212.7	173.8	143.2	122.6	107.8	100.2
40°	4707.8	3948.9	1830.7	763.6	377.7	202.1	168.5	136.7	116.1	100.2	91.9
42.5°	4975.9	4131.0	1817.7	743.6	357.7	203.9	164.4	133.8	109.6	93.1	86.0
45°	5192.8	4303.6	1835.4	733.0	335.9	200.9	165.6	130.2	104.3	88.4	81.3
47.5°	5424.3	4547.6	1892.6	722.4	314.6	186.8	174.4	129.6	101.9	85.4	77.8
50°	5693.6	4859.9	2023.4	696.5	288.7	171.5	185.6	129.0	99.0	81.9	74.2
52.5°	6052.4	5214.6	2158.3	651.1	251.0	156.7	177.4	127.3	93.1	77.8	70.1
55°	6374.7	5588.1	2272.6	597.5	203.3	135.5	159.7	119.6	83.1	70.7	63.6
57.5°	6507.9	5799.1	2269.1	523.2	162.6	119.0	131.4	109.6	72.5	62.5	56.6
59°	6459.0	5772.6	2193.1	468.4	148.5	110.2	109.0	108.4	67.8	56.6	51.9
60°	6390.0	5675.9	2111.2	441.3	139.6	104.3	100.2	107.2	63.6	53.0	48.3
62.5°	6126.1	5275.3	1839.5	395.4	127.9	88.4	80.1	90.7	56.6	46.0	41.8
65°	5743.7	4659.5	1557.3	382.4	124.3	73.1	66.6	64.8	48.3	38.9	35.4
67.5°	4997.7	3943.0	1261.5	373.6	125.5	61.3	58.3	48.9	40.1	32.4	30.1
70°	4001.4	3074.5	1032.9	363.5	126.7	50.1	48.9	38.9	32.4	27.1	24.7
72.5°	2431.1	1822.4	813.1	315.8	123.1	40.1	43.6	29.5	23.6	19.4	18.3
75°	1503.1	1247.4	504.4	245.7	81.3	29.5	30.6	18.3	15.9	12.4	12.4
77.5°	870.9	787.8	180.3	88.4	35.9	17.7	13.6	9.4	8.8	5.3	5.3
80°	361.2	289.3	62.5	30.1	19.4	8.2	2.9	0.6	0.0	0.0	0.0
82.5°	105.5	93.7	17.1	13.6	5.9	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°	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0
2.5°	2096.4	2077.0	2068.1	2098.2	2070.5	2105.9	2078.8	2090.5	2125.3	2140.6	2180.1
5°	1569.1	1549.0	1539.6	1585.0	1582.6	1605.0	1602.7	1623.3	1641.0	1601.5	1642.1
7.5°	1093.0	1079.4	1101.8	1137.2	1174.9	1162.5	1162.5	1134.8	1144.3	1138.4	1136.6
10°	831.4	784.8	773.1	771.9	786.0	789.0	773.1	734.8	748.9	753.0	777.8
12.5°	654.0	618.1	563.3	538.5	532.1	537.4	484.9	451.3	467.2	457.8	482.0
15°	469.0	439.6	407.1	379.5	371.8	361.2	304.0	264.0	259.3	261.0	265.1
17.5°	334.7	314.6	314.6	285.2	269.3	237.5	208.6	190.9	189.1	190.9	193.9
20°	246.9	236.3	235.1	227.4	209.8	188.5	168.5	165.0	163.8	166.7	167.9
22.5°	212.7	201.5	192.1	191.5	175.0	157.3	147.9	143.2	143.8	144.9	147.9
25°	190.3	178.5	168.5	162.6	150.8	138.5	129.6	127.3	127.3	129.0	129.6
27.5°	174.4	159.7	150.8	142.6	132.0	121.4	113.7	112.0	110.8	112.0	114.9
30°	163.2	148.5	137.3	124.9	116.7	106.6	100.2	97.8	97.2	97.8	100.2
32.5°	139.6	130.8	122.0	110.8	100.8	94.3	87.2	83.1	83.1	84.3	86.6
35°	105.5	100.8	100.2	97.2	89.0	81.9	73.7	69.5	69.5	71.9	73.1
37.5°	93.1	84.3	83.1	81.9	78.4	68.9	61.3	57.7	57.2	58.9	61.3
40°	84.8	74.8	69.5	68.3	68.9	58.3	50.1	46.5	46.5	47.1	49.5
42.5°	78.4	66.6	57.2	56.0	58.3	48.9	40.7	37.1	37.1	37.1	40.1
45°	73.1	59.5	48.3	42.4	46.0	40.1	33.0	29.5	28.3	29.5	30.6
47.5°	69.5	54.2	42.4	34.2	34.2	31.8	26.5	22.4	21.2	21.8	23.6
50°	66.6	49.5	35.9	27.7	24.7	25.3	20.0	17.1	15.9	15.9	17.7
52.5°	61.9	44.8	31.2	23.6	18.9	17.1	14.7	12.4	11.8	12.4	13.6
55°	56.0	40.7	27.1	19.4	14.7	11.8	10.6	8.8	8.2	8.8	10.6
57.5°	49.5	34.2	21.8	15.3	10.0	7.7	7.1	5.9	4.7	5.3	6.5
59°	45.4	30.6	18.9	12.4	7.7	5.3	5.3	4.1	2.9	3.5	5.3
60°	43.6	28.3	15.9	10.6	6.5	4.1	4.1	2.9	1.8	2.4	4.1
62.5°	37.1	23.6	12.4	6.5	2.9	0.6	1.8	0.6	0.0	0.6	1.8
65°	31.2	18.9	8.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.6
67.5°	25.9	14.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	20.6	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.5	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: P458670  
 CATALOG NUMBER: GALN-SA2B-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0
2.5°	2182.5	2266.7	2318.6	2416.4	2516.5	2593.7	2690.4	2777.0	2812.9	2831.8
5°	1683.4	1800.6	1900.2	2049.3	2187.8	2356.3	2527.1	2728.7	2805.8	2825.9
7.5°	1181.4	1301.0	1405.3	1577.9	1775.3	2001.0	2256.7	2512.4	2625.0	2656.8
10°	853.2	981.0	1108.3	1281.0	1465.4	1709.9	1976.2	2292.6	2422.3	2447.0
12.5°	538.5	675.8	882.6	1095.9	1291.0	1487.8	1766.5	2110.6	2253.8	2299.1
15°	312.3	414.8	571.0	849.1	1097.1	1357.6	1661.6	2042.2	2202.5	2249.0
17.5°	209.2	244.5	351.8	564.5	892.1	1237.4	1635.1	2098.2	2275.6	2335.1
20°	176.2	192.1	229.8	344.1	687.0	1130.1	1642.1	2250.2	2483.0	2557.2
22.5°	155.0	169.7	193.9	247.5	479.6	997.0	1675.7	2467.6	2768.1	2863.0
25°	136.7	151.4	172.6	205.0	322.3	843.2	1749.4	2785.8	3145.8	3250.1
27.5°	121.4	134.9	153.2	180.9	248.1	671.7	1814.8	3095.7	3490.5	3575.4
30°	107.2	118.4	136.1	157.3	206.2	517.9	1847.8	3366.8	3741.5	3835.8
32.5°	93.1	103.7	120.8	137.9	169.7	394.8	1824.8	3565.9	3985.5	4045.6
35°	79.5	90.7	104.9	120.8	146.7	318.8	1709.9	3789.8	4238.2	4285.4
37.5°	68.3	77.8	92.5	104.9	132.6	255.1	1570.9	3991.4	4521.6	4589.4
40°	57.7	67.2	81.9	93.1	122.0	200.9	1445.3	4215.3	4820.4	4904.0
42.5°	47.1	58.3	71.3	89.6	104.9	153.2	1293.3	4396.7	5044.9	5149.7
45°	37.7	50.1	64.2	89.0	91.3	116.7	1146.6	4538.1	5243.4	5337.7
47.5°	30.1	42.4	61.9	83.1	74.8	92.5	1062.9	4686.0	5408.4	5483.8
50°	24.2	35.4	64.8	73.1	62.5	78.4	1060.6	4851.0	5493.9	5543.9
52.5°	19.4	28.9	54.8	56.0	53.0	68.9	1124.2	5036.6	5581.1	5622.3
55°	16.5	24.2	35.9	41.2	47.7	62.5	1172.0	5322.4	5789.0	5827.9
57.5°	13.0	20.6	27.7	33.0	42.4	57.2	1178.4	5542.8	6052.4	6077.8
59°	11.2	17.7	24.7	29.5	38.9	53.6	1151.9	5556.3	6069.5	6110.2
60°	9.4	15.9	21.8	27.7	35.9	50.7	1123.0	5457.9	6005.9	6051.2
62.5°	7.1	12.4	15.9	22.4	29.5	43.6	986.3	5114.4	5762.5	5794.4
65°	4.7	8.8	11.8	16.5	23.0	37.7	803.7	4668.9	5386.6	5457.9
67.5°	2.9	6.5	9.4	12.4	18.9	31.8	572.7	4003.7	4860.4	4906.4
70°	1.8	4.1	7.1	10.0	14.7	25.3	340.0	3164.7	4043.8	4053.2
72.5°	1.2	2.9	4.7	7.1	11.8	23.0	165.0	2062.8	2952.6	3065.1
75°	0.6	1.8	2.9	5.3	9.4	18.9	79.0	1378.2	2148.3	2180.7
77.5°	0.0	0.6	1.8	3.5	7.1	14.7	46.0	905.0	1464.8	1498.4
80°	0.0	0.0	1.2	2.9	5.3	9.4	27.7	533.8	887.4	903.9
82.5°	0.0	0.0	0.6	2.4	3.5	7.1	14.1	234.5	581.0	586.9
85°	0.0	0.0	0.6	2.4	2.9	4.7	5.3	31.8	258.1	262.8
87.5°	0.0	0.0	0.6	2.9	2.9	2.9	2.9	1.8	21.8	27.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)