

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: P458902

Luminaire Tested: **GALN-SA4B-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458902
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-SA4B-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 15059 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

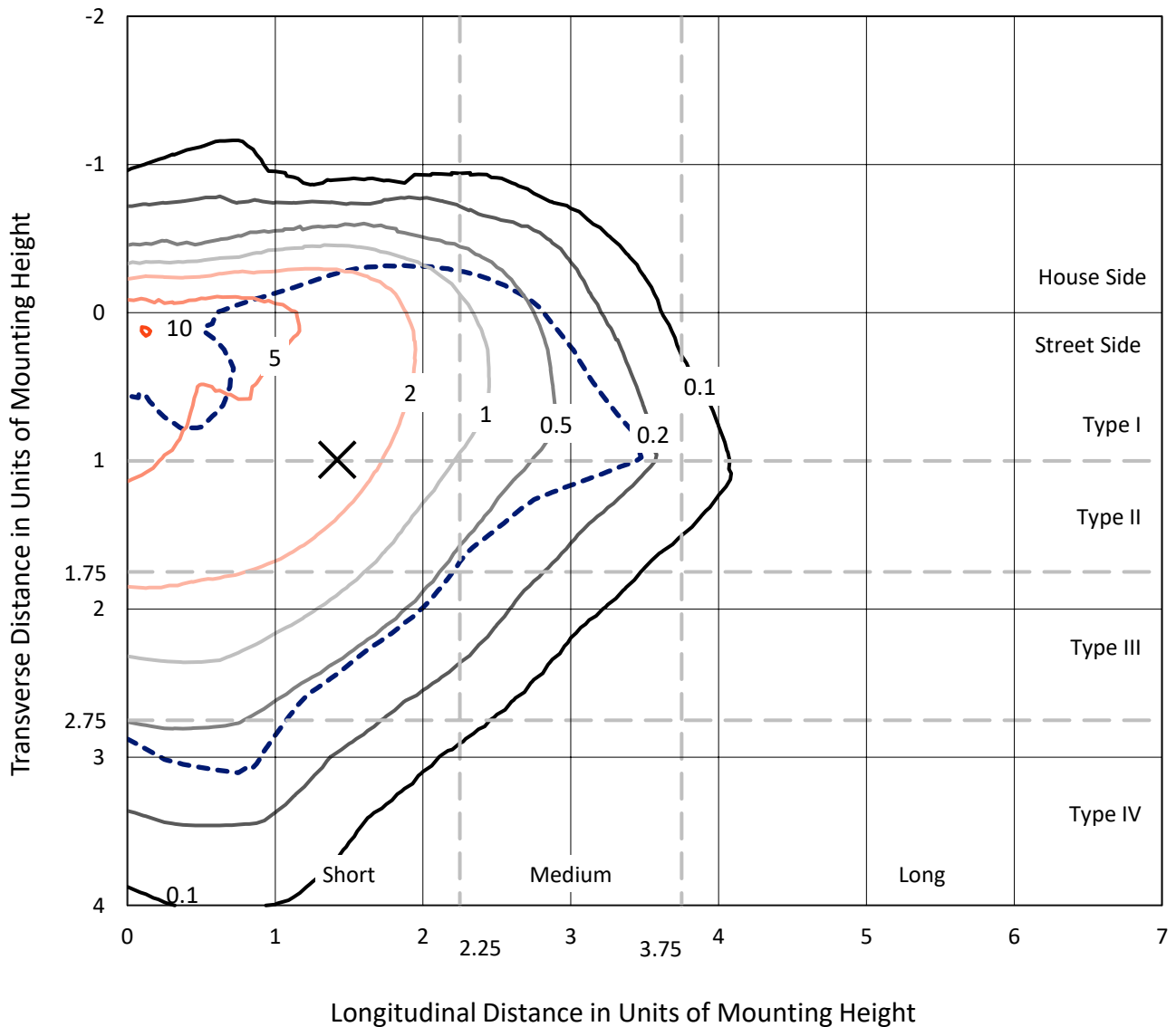
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

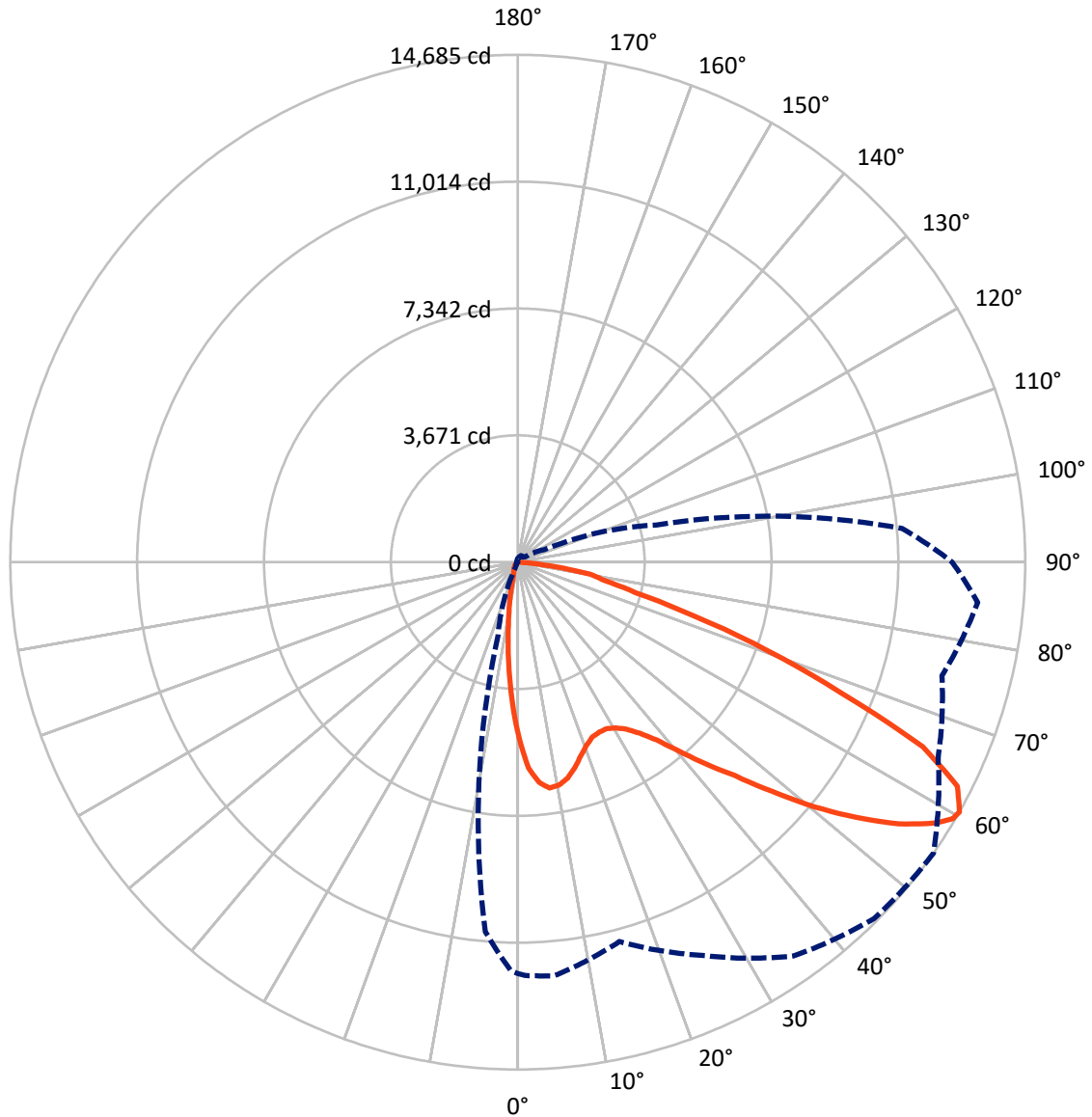
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	2234.9	0.0	2234.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	12824.1	0.0	12824.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	15059.0	0.0	15059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.6	2.5
10°-20°	743.6	4.9
20°-30°	1100.6	7.3
30°-40°	1640.5	10.9
40°-50°	2402.6	16.0
50°-60°	3468.6	23.0
60°-70°	3648.8	24.2
70°-80°	1501.0	10.0
80°-90°	175.8	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°	15059.0	100.0
0°-180°	15059.0	100.0

Coefficient of Utilization



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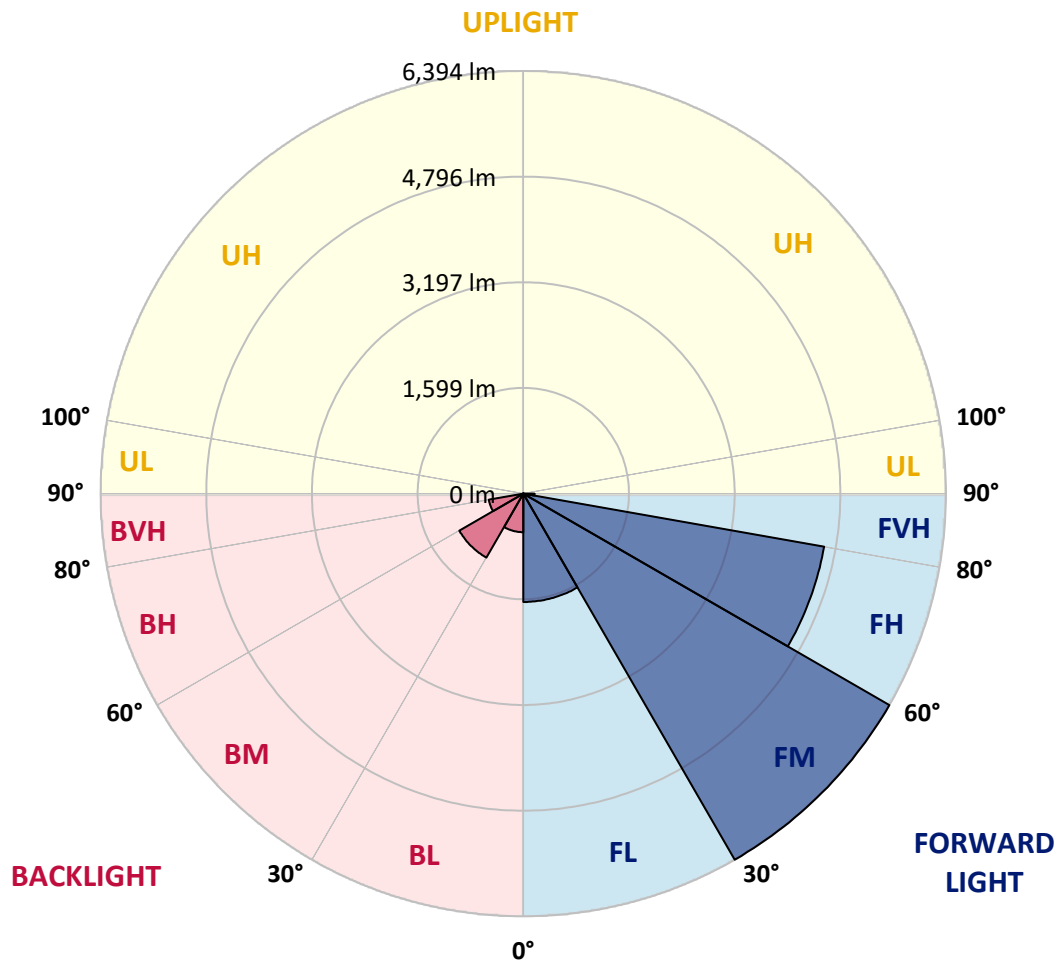
CATALOG NUMBER: GALN-SA4B-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1638.6	10.9			
FM	(30°-60°)	6394.1	42.5			
FH	(60°-80°)	4620.8	30.7			G2/5000
FVH	(80°-90°)	170.6	1.1			G2/225
BL	(0°-30°)	583.1	3.9	B2/1000		
BM	(30°-60°)	1117.6	7.4	B2/2500		
BH	(60°-80°)	529.0	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9
2.5°	5570.7	5561.4	5643.7	5778.2	5913.8	5984.5	5970.6	5964.8	5852.4	5770.1	5597.4
5°	5559.1	5606.6	5753.8	6117.8	6393.7	6527.0	6566.4	6400.6	6181.5	5863.9	5472.2
7.5°	5226.4	5285.6	5525.5	6094.6	6584.9	6874.7	6864.3	6598.8	6146.8	5655.3	5096.6
10°	4813.8	4883.3	5165.0	5855.8	6492.2	6874.7	6895.6	6559.4	5997.2	5366.7	4779.0
12.5°	4522.9	4605.2	4917.0	5633.3	6253.4	6630.1	6654.5	6411.1	5884.8	5255.4	4606.3
15°	4424.3	4502.0	4818.4	5520.9	5999.6	6202.4	6196.6	6171.1	5840.8	5282.1	4615.6
17.5°	4593.6	4657.3	5014.3	5571.9	5761.9	5741.1	5771.2	5894.1	5850.0	5505.8	4907.7
20°	5030.5	5095.5	5479.1	5728.3	5580.0	5447.8	5461.7	5666.9	5935.8	5926.5	5364.4
22.5°	5632.1	5742.2	6090.0	6032.0	5555.6	5265.8	5236.9	5503.5	6081.9	6411.1	5981.0
25°	6393.7	6504.9	6776.2	6516.5	5675.0	5223.0	5196.3	5453.6	6259.2	6884.0	6675.3
27.5°	7033.5	7118.1	7388.2	6988.3	5851.2	5241.5	5197.5	5460.6	6402.9	7286.2	7260.7
30°	7545.8	7608.4	7767.2	7208.5	6003.0	5322.6	5271.6	5562.6	6466.7	7482.1	7734.8
32.5°	7958.5	8063.9	8113.8	7443.8	6221.0	5475.6	5388.7	5758.5	6622.0	7724.3	8232.0
35°	8430.2	8551.9	8488.2	7668.7	6508.4	5714.4	5607.8	6076.1	6857.3	7948.0	8809.3
37.5°	9028.3	9168.6	8919.4	7905.1	6812.1	6073.7	6023.9	6522.3	7214.3	8267.9	9428.2
40°	9647.3	9728.4	9337.8	8192.6	7185.3	6596.5	6644.0	7185.3	7681.4	8651.6	10086.6
42.5°	10130.6	10207.1	9767.8	8433.7	7566.7	7216.6	7414.8	7985.1	8216.9	9044.6	10578.1
45°	10500.4	10565.3	10065.7	8696.8	8081.3	8114.9	8489.3	8809.3	8753.6	9284.5	10957.1
47.5°	10787.9	10843.5	10295.2	8979.6	8852.1	9213.8	9786.4	9922.0	9310.0	9544.1	11300.2
50°	10906.1	10922.3	10367.1	9340.1	9727.3	10614.0	11210.9	11128.6	9947.5	9832.8	11665.3
52.5°	11060.3	11056.8	10572.3	9683.2	10550.2	11865.8	12461.6	12275.0	10668.5	10265.1	12075.6
55°	11464.8	11469.4	11011.6	10170.1	11251.5	12876.6	13514.1	13378.5	11428.8	10995.3	12554.3
57.5°	11956.2	11973.6	11636.3	10739.2	11921.5	13609.1	14300.0	14247.8	12457.0	11807.9	13006.4
59°	12020.0	12054.8	11931.9	11140.2	12319.0	13834.0	14568.9	14619.9	13007.6	12343.4	13251.0
60°	11904.1	11962.0	12017.7	11367.4	12552.0	13915.1	14585.1	14684.8	13421.4	12707.3	13362.2
62.5°	11398.7	11490.3	11769.6	12066.4	12843.0	13662.5	14067.0	14275.6	13933.7	13663.6	13372.7
65°	10736.9	10784.4	11187.8	12190.4	12278.5	12482.5	12607.7	12875.4	13318.2	14032.2	12894.0
67.5°	9651.9	9792.2	10286.0	11470.6	10612.8	10371.7	10340.4	10073.8	11223.7	13153.6	11714.0
70°	7973.5	8036.1	8644.7	9403.9	8009.5	7638.6	7786.9	7687.2	8700.3	11323.4	9428.2
72.5°	6029.7	6171.1	6765.7	7496.0	5450.1	4969.1	5378.3	5341.2	6535.1	9100.2	6477.1
75°	4289.9	4381.4	5139.5	5866.3	3817.0	3233.9	3381.1	3519.1	4562.3	7185.3	3827.4
77.5°	2947.6	3026.4	3595.6	3879.5	2784.2	2667.1	2439.9	2573.2	2989.4	4263.2	2082.9
80°	1778.1	1774.6	2149.0	2218.5	1939.2	2252.2	1889.4	2121.2	1807.1	1824.4	806.7
82.5°	1154.5	1142.9	1314.4	1432.7	1079.1	1134.8	761.5	1097.7	1177.7	508.9	255.0
85°	517.0	539.0	631.7	833.4	472.9	251.5	155.3	337.3	501.9	256.2	0.0
87.5°	53.3	41.7	111.3	202.8	64.9	7.0	23.2	11.6	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°	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9
2.5°	5517.4	5450.1	5249.6	5061.8	4900.7	4703.7	4576.2	4375.6	4253.9	4216.9	4222.6
5°	5296.0	5102.4	4721.1	4416.2	4076.6	3883.0	3588.6	3305.8	3152.8	3096.0	3070.5
7.5°	4832.3	4624.9	4164.7	3686.0	3322.0	2982.4	2763.3	2514.1	2343.7	2203.5	2179.1
10°	4488.1	4215.7	3645.4	3130.8	2843.3	2588.3	2369.2	2120.0	1919.5	1759.5	1715.5
12.5°	4281.8	3976.9	3340.6	2909.4	2637.0	2375.0	2089.9	1801.3	1596.1	1423.4	1343.4
15°	4244.7	3891.1	3254.8	2750.6	2414.4	2098.0	1719.0	1407.2	1196.2	1032.8	982.9
17.5°	4468.4	4045.3	3242.0	2584.8	2123.5	1674.9	1280.8	1022.3	784.7	693.1	657.2
20°	4867.1	4317.7	3240.9	2392.4	1824.4	1290.1	899.5	666.5	570.3	526.2	505.4
22.5°	5410.7	4688.6	3302.3	2226.7	1513.8	951.6	642.1	530.9	475.2	439.3	431.2
25°	6074.9	5238.0	3453.0	2114.2	1276.2	746.5	529.7	454.4	408.0	391.8	384.8
27.5°	6664.9	5764.3	3618.7	1998.3	1105.8	660.7	491.5	416.1	379.0	366.3	355.8
30°	7173.7	6241.8	3698.7	1845.3	969.0	605.1	498.4	445.1	396.4	358.2	340.8
32.5°	7598.0	6608.1	3750.9	1706.2	853.1	494.9	394.1	344.3	322.2	308.3	296.7
35°	8128.9	7004.5	3719.6	1627.4	794.0	450.9	359.3	296.7	259.6	231.8	220.2
37.5°	8685.2	7400.9	3665.1	1562.5	767.3	418.4	341.9	281.7	241.1	212.1	197.0
40°	9261.3	7768.4	3601.4	1502.2	743.0	397.6	331.5	268.9	228.3	197.0	180.8
42.5°	9788.7	8126.5	3575.9	1462.8	703.6	401.1	323.4	263.1	215.6	183.1	169.2
45°	10215.3	8466.2	3610.6	1441.9	660.7	395.3	325.7	256.2	205.2	173.9	160.0
47.5°	10670.8	8946.0	3723.1	1421.1	619.0	367.4	343.1	255.0	200.5	168.1	153.0
50°	11200.5	9560.4	3980.4	1370.1	568.0	337.3	365.1	253.8	194.7	161.1	146.0
52.5°	11906.4	10258.1	4245.8	1280.8	493.8	308.3	348.9	250.4	183.1	153.0	137.9
55°	12540.4	10993.0	4470.7	1175.3	399.9	266.6	314.1	235.3	163.4	139.1	125.2
57.5°	12802.4	11408.0	4463.7	1029.3	319.9	234.1	258.5	215.6	142.6	122.9	111.3
59°	12706.2	11355.8	4314.2	921.5	292.1	216.8	214.4	213.3	133.3	111.3	102.0
60°	12570.6	11165.7	4153.1	868.2	274.7	205.2	197.0	211.0	125.2	104.3	95.0
62.5°	12051.3	10377.5	3618.7	777.8	251.5	173.9	157.6	178.5	111.3	90.4	82.3
65°	11299.0	9166.3	3063.5	752.3	244.6	143.7	131.0	127.5	95.0	76.5	69.5
67.5°	9831.6	7756.8	2481.7	734.9	246.9	120.5	114.8	96.2	78.8	63.8	59.1
70°	7871.5	6048.2	2031.9	715.2	249.2	98.5	96.2	76.5	63.8	53.3	48.7
72.5°	4782.5	3585.1	1599.6	621.3	242.3	78.8	85.8	58.0	46.4	38.3	35.9
75°	2956.9	2453.8	992.2	483.3	160.0	58.0	60.3	35.9	31.3	24.3	24.3
77.5°	1713.2	1549.7	354.7	173.9	70.7	34.8	26.7	18.5	17.4	10.4	10.4
80°	710.5	569.1	122.9	59.1	38.3	16.2	5.8	1.2	0.0	0.0	0.0
82.5°	207.5	184.3	33.6	26.7	11.6	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°	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9
2.5°	4124.1	4085.9	4068.5	4127.6	4073.1	4142.7	4089.3	4112.5	4180.9	4211.1	4288.7
5°	3086.7	3047.3	3028.8	3118.0	3113.4	3157.4	3152.8	3193.4	3228.1	3150.5	3230.4
7.5°	2150.2	2123.5	2167.5	2237.1	2311.3	2286.9	2286.9	2232.5	2251.0	2239.4	2235.9
10°	1635.5	1543.9	1520.8	1518.4	1546.3	1552.1	1520.8	1445.4	1473.2	1481.3	1530.0
12.5°	1286.6	1215.9	1108.1	1059.4	1046.7	1057.1	953.9	887.9	919.2	900.6	948.2
15°	922.7	864.7	800.9	746.5	731.4	710.5	598.1	519.3	510.0	513.5	521.6
17.5°	658.4	619.0	619.0	561.0	529.7	467.1	410.3	375.6	372.1	375.6	381.3
20°	485.7	464.8	462.5	447.4	412.6	370.9	331.5	324.6	322.2	328.0	330.3
22.5°	418.4	396.4	377.9	376.7	344.3	309.5	290.9	281.7	282.8	285.1	290.9
25°	374.4	351.2	331.5	319.9	296.7	272.4	255.0	250.4	250.4	253.8	255.0
27.5°	343.1	314.1	296.7	280.5	259.6	238.8	223.7	220.2	217.9	220.2	226.0
30°	321.1	292.1	270.1	245.7	229.5	209.8	197.0	192.4	191.3	192.4	197.0
32.5°	274.7	257.3	239.9	217.9	198.2	185.5	171.5	163.4	163.4	165.8	170.4
35°	207.5	198.2	197.0	191.3	175.0	161.1	144.9	136.8	136.8	141.4	143.7
37.5°	183.1	165.8	163.4	161.1	154.2	135.6	120.5	113.6	112.4	115.9	120.5
40°	166.9	147.2	136.8	134.5	135.6	114.8	98.5	91.6	91.6	92.7	97.4
42.5°	154.2	131.0	112.4	110.1	114.8	96.2	80.0	73.0	73.0	73.0	78.8
45°	143.7	117.1	95.0	83.5	90.4	78.8	64.9	58.0	55.6	58.0	60.3
47.5°	136.8	106.6	83.5	67.2	67.2	62.6	52.2	44.0	41.7	42.9	46.4
50°	131.0	97.4	70.7	54.5	48.7	49.8	39.4	33.6	31.3	31.3	34.8
52.5°	121.7	88.1	61.4	46.4	37.1	33.6	29.0	24.3	23.2	24.3	26.7
55°	110.1	80.0	53.3	38.3	29.0	23.2	20.9	17.4	16.2	17.4	20.9
57.5°	97.4	67.2	42.9	30.1	19.7	15.1	13.9	11.6	9.3	10.4	12.8
59°	89.3	60.3	37.1	24.3	15.1	10.4	10.4	8.1	5.8	7.0	10.4
60°	85.8	55.6	31.3	20.9	12.8	8.1	8.1	5.8	3.5	4.6	8.1
62.5°	73.0	46.4	24.3	12.8	5.8	1.2	3.5	1.2	0.0	1.2	3.5
65°	61.4	37.1	16.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	51.0	27.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	40.6	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	27.8	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.0	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: P458902
 CATALOG NUMBER: GALN-SA4B-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9	5098.9
2.5°	4293.4	4459.1	4561.1	4753.5	4950.6	5102.4	5292.5	5462.9	5533.6	5570.7
5°	3311.6	3542.2	3738.1	4031.4	4303.8	4635.3	4971.4	5367.8	5519.7	5559.1
7.5°	2324.0	2559.3	2764.5	3104.1	3492.4	3936.3	4439.4	4942.5	5163.8	5226.4
10°	1678.4	1929.9	2180.3	2519.9	2882.7	3363.7	3887.7	4510.1	4765.1	4813.8
12.5°	1059.4	1329.5	1736.4	2155.9	2539.6	2926.8	3475.0	4151.9	4433.6	4522.9
15°	614.3	816.0	1123.2	1670.3	2158.3	2670.6	3268.7	4017.5	4332.8	4424.3
17.5°	411.5	481.0	692.0	1110.4	1754.9	2434.1	3216.5	4127.6	4476.5	4593.6
20°	346.6	377.9	452.1	676.9	1351.5	2223.2	3230.4	4426.7	4884.5	5030.5
22.5°	304.8	333.8	381.3	486.8	943.5	1961.2	3296.5	4854.4	5445.5	5632.1
25°	268.9	297.9	339.6	403.4	634.0	1658.7	3441.4	5480.3	6188.5	6393.7
27.5°	238.8	265.4	301.4	355.8	488.0	1321.4	3570.1	6090.0	6866.6	7033.5
30°	211.0	233.0	267.8	309.5	405.7	1018.9	3635.0	6623.2	7360.4	7545.8
32.5°	183.1	204.0	237.6	271.2	333.8	776.6	3589.8	7014.9	7840.2	7958.5
35°	156.5	178.5	206.3	237.6	288.6	627.1	3363.7	7455.4	8337.5	8430.2
37.5°	134.5	153.0	182.0	206.3	260.8	501.9	3090.2	7851.8	8895.0	9028.3
40°	113.6	132.1	161.1	183.1	239.9	395.3	2843.3	8292.3	9482.7	9647.3
42.5°	92.7	114.8	140.3	176.2	206.3	301.4	2544.3	8649.3	9924.3	10130.6
45°	74.2	98.5	126.3	175.0	179.7	229.5	2255.6	8927.5	10314.9	10500.4
47.5°	59.1	83.5	121.7	163.4	147.2	182.0	2091.0	9218.4	10639.5	10787.9
50°	47.5	69.5	127.5	143.7	122.9	154.2	2086.4	9543.0	10807.6	10906.1
52.5°	38.3	56.8	107.8	110.1	104.3	135.6	2211.6	9908.1	10979.1	11060.3
55°	32.5	47.5	70.7	81.1	93.9	122.9	2305.5	10470.3	11388.3	11464.8
57.5°	25.5	40.6	54.5	64.9	83.5	112.4	2318.2	10903.8	11906.4	11956.2
59°	22.0	34.8	48.7	58.0	76.5	105.5	2266.1	10930.4	11940.0	12020.0
60°	18.5	31.3	42.9	54.5	70.7	99.7	2209.3	10736.9	11814.8	11904.1
62.5°	13.9	24.3	31.3	44.0	58.0	85.8	1940.4	10061.1	11336.1	11398.7
65°	9.3	17.4	23.2	32.5	45.2	74.2	1581.0	9184.8	10596.6	10736.9
67.5°	5.8	12.8	18.5	24.3	37.1	62.6	1126.7	7876.2	9561.5	9651.9
70°	3.5	8.1	13.9	19.7	29.0	49.8	668.8	6225.6	7955.0	7973.5
72.5°	2.3	5.8	9.3	13.9	23.2	45.2	324.6	4058.1	5808.3	6029.7
75°	1.2	3.5	5.8	10.4	18.5	37.1	155.3	2711.2	4226.1	4289.9
77.5°	0.0	1.2	3.5	7.0	13.9	29.0	90.4	1780.4	2881.6	2947.6
80°	0.0	0.0	2.3	5.8	10.4	18.5	54.5	1050.2	1745.6	1778.1
82.5°	0.0	0.0	1.2	4.6	7.0	13.9	27.8	461.3	1142.9	1154.5
85°	0.0	0.0	1.2	4.6	5.8	9.3	10.4	62.6	507.7	517.0
87.5°	0.0	0.0	1.2	5.8	5.8	5.8	5.8	3.5	42.9	53.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)