

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: P533593

Luminaire Tested: **GALN-SA9A-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533593  
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-SA9A-735-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 21351 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

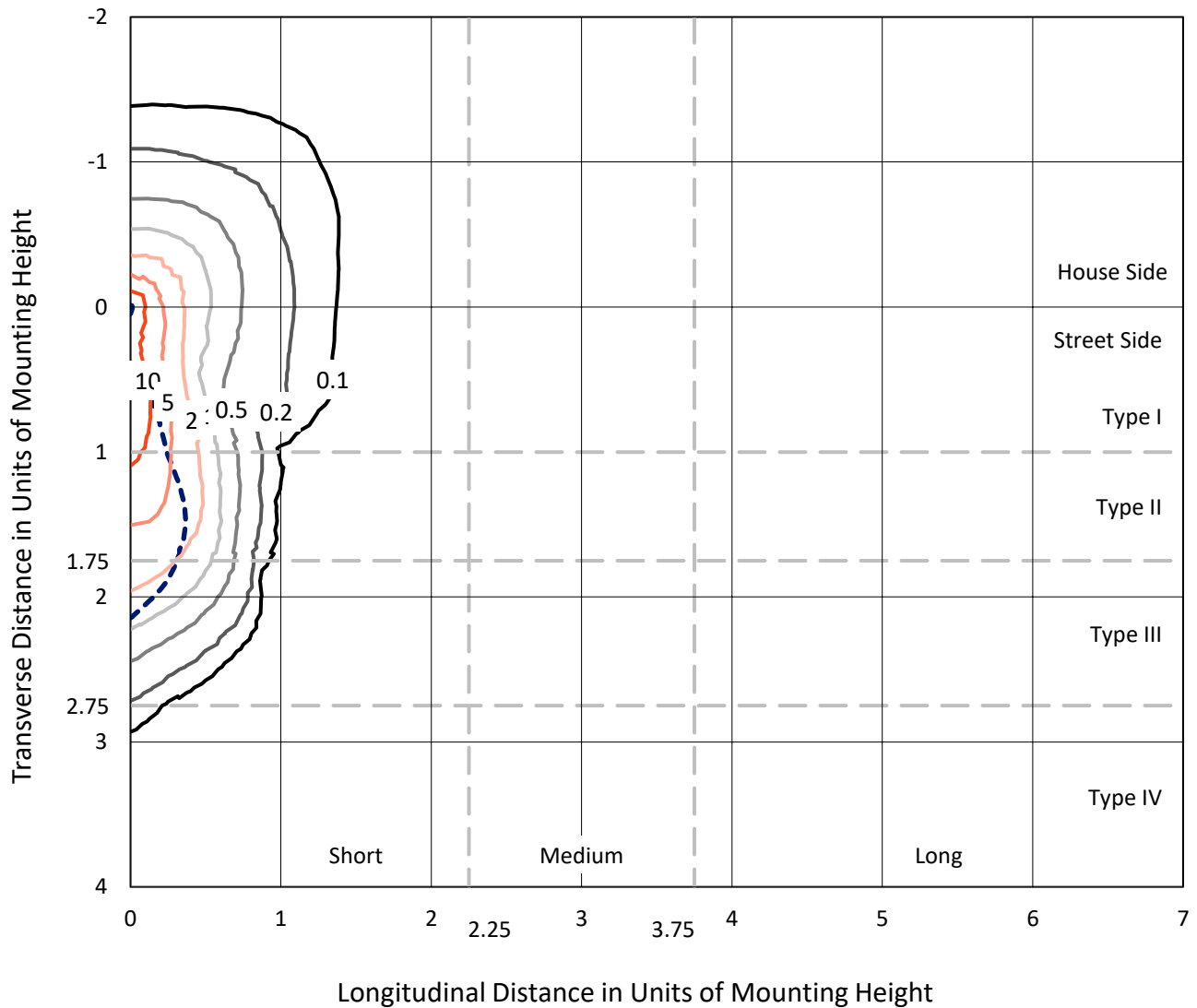
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

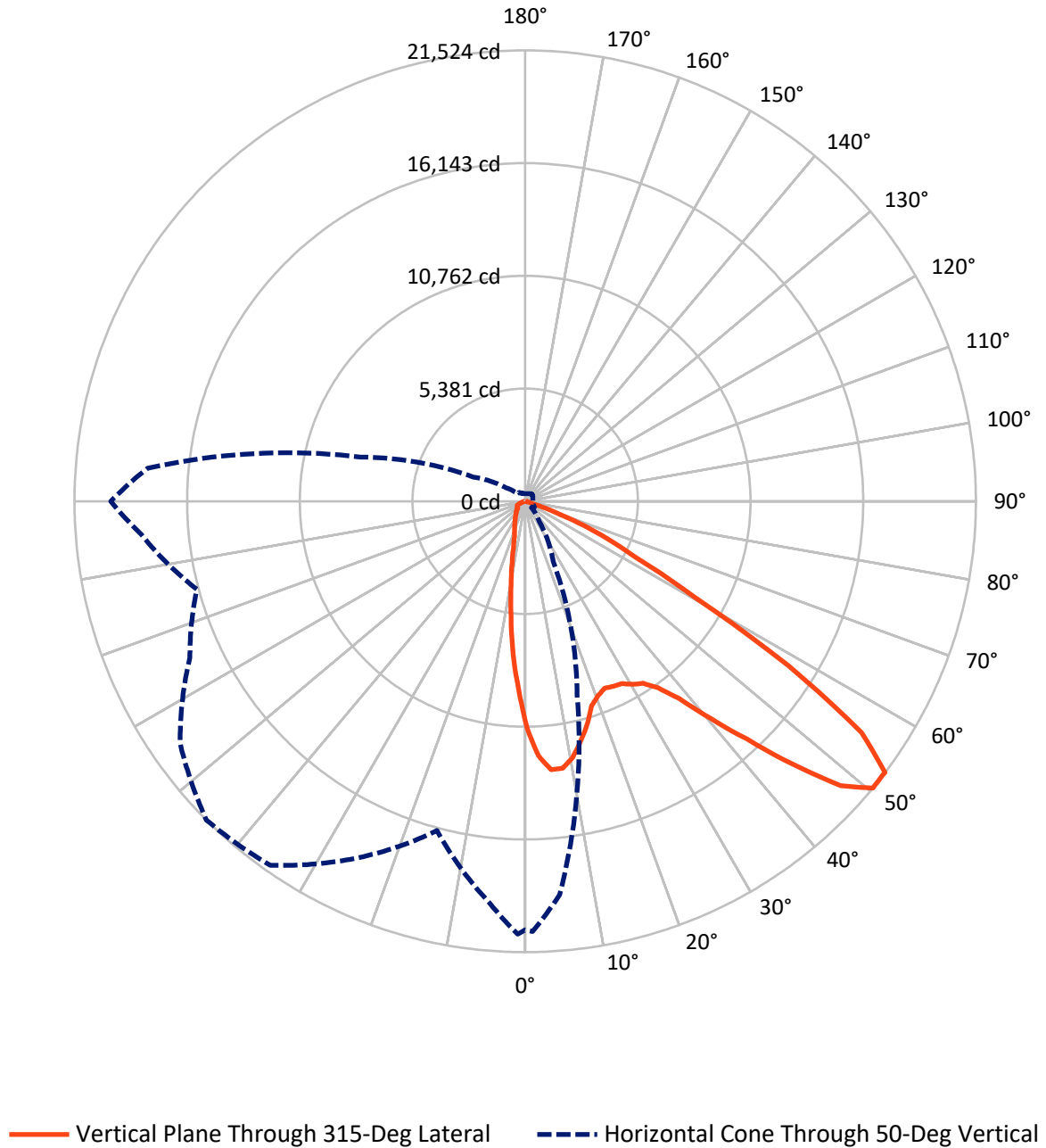
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4276.6	0.0	4276.6
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	17074.4	0.0	17074.4
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	21351.0	0.0	21351.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	789.2	3.7
10°-20°	1568.5	7.3
20°-30°	2356.4	11.0
30°-40°	3536.9	16.6
40°-50°	4970.9	23.3
50°-60°	5362.0	25.1
60°-70°	2489.6	11.7
70°-80°	234.2	1.1
80°-90°	43.2	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°	21351.0	100.0
0°-180°	21351.0	100.0

**Coefficient of Utilization**



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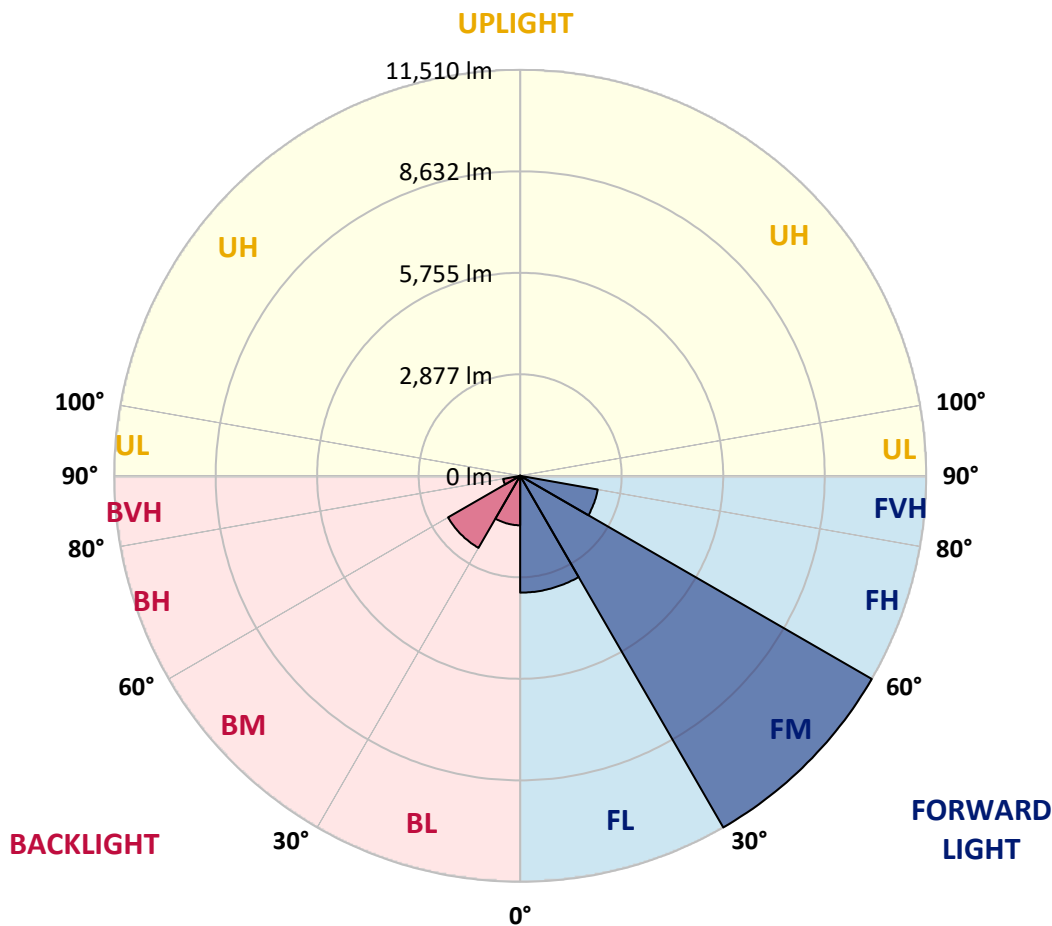
CATALOG NUMBER: GALN-SA9A-735-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3312.4	15.5			
FM (30°-60°)	11509.8	53.9			
FH (60°-80°)	2232.7	10.5			G2/5000
FVH (80°-90°)	19.4	0.1			G1/100
BL (0°-30°)	1401.8	6.6	B3/2500		
BM (30°-60°)	2360.0	11.1	B2/2500		
BH (60°-80°)	491.1	2.3	B1/500		G1/500
BVH (80°-90°)	23.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6
2.5°	11255.5	11081.8	10861.5	10679.4	10408.3	9861.8	9713.5	9535.6	9387.4	9188.3	8908.7
5°	10234.6	10179.5	10077.8	9391.6	8896.0	8235.1	7692.9	7464.1	7163.4	6917.7	6739.7
7.5°	9455.1	9234.8	8912.9	8222.4	7430.2	6722.8	6121.3	5769.7	5371.5	5235.9	4994.4
10°	8620.6	8671.4	8197.0	7226.9	6269.5	5697.6	5324.9	4986.0	4625.9	4388.7	4045.5
12.5°	8353.7	8188.5	7824.2	6625.4	5807.8	5274.0	4820.8	4401.4	4020.1	3638.9	3308.4
15°	8527.4	8273.2	7764.9	6498.3	5451.9	4786.9	4219.2	3651.6	3300.0	2812.8	2469.7
17.5°	9150.1	8946.8	8264.8	6633.8	5269.8	4320.9	3477.9	2893.3	2355.3	1914.7	1741.1
20°	10188.0	9899.9	9044.2	6807.5	4998.7	3757.5	2821.3	2101.1	1592.8	1406.4	1309.0
22.5°	11204.7	11047.9	9967.7	7142.2	4757.2	3257.6	2118.1	1414.9	1190.4	1156.5	1092.9
25°	13140.6	12670.4	11378.4	7748.0	4570.8	2787.4	1597.0	1139.5	1008.2	982.8	991.3
27.5°	14292.8	13898.9	12683.1	8150.4	4363.3	2427.3	1351.3	1046.3	957.4	902.3	881.1
30°	15398.5	14941.0	13331.2	8387.6	3918.5	2046.1	1198.8	1004.0	982.8	902.3	876.9
32.5°	16249.9	15800.9	14267.4	8743.5	3736.3	1800.4	987.0	783.7	728.6	720.1	796.4
35°	17554.7	17076.0	15068.1	8938.3	3596.5	1673.3	855.7	699.0	635.4	610.0	614.2
37.5°	18770.5	18444.3	15809.4	9014.6	3448.2	1635.2	766.7	627.0	571.9	554.9	550.7
40°	19787.1	19058.5	16512.6	9095.1	3384.7	1563.1	711.7	571.9	533.8	508.3	508.3
42.5°	20253.1	19511.8	17300.5	9048.5	3367.8	1448.8	711.7	525.3	495.6	470.2	466.0
45°	20151.5	19850.7	17652.1	9027.3	3367.8	1334.4	648.1	512.6	470.2	436.3	427.9
47.5°	20414.1	20020.1	18092.7	9116.2	3300.0	1253.9	546.5	538.0	444.8	402.4	394.0
50°	20460.7	20536.9	18859.4	9578.0	3151.7	1152.2	427.9	529.5	427.9	364.3	355.8
52°	20765.7	20291.3	19092.4	9823.7	2995.0	1076.0	360.1	453.3	410.9	338.9	330.4
52.5°	20346.3	20655.6	19147.5	9912.6	3011.9	1025.2	347.4	444.8	402.4	338.9	317.7
55°	19876.1	20172.6	18923.0	10103.3	2762.0	804.9	271.1	321.9	364.3	296.5	283.8
57.5°	17275.1	17575.9	16444.8	9251.8	2249.4	567.6	224.5	241.5	321.9	275.4	262.6
60°	15356.1	15140.1	13801.4	7718.3	1597.0	317.7	177.9	186.4	351.6	254.2	249.9
62.5°	14034.4	13572.7	11535.1	5960.3	974.3	211.8	139.8	144.0	271.1	237.2	237.2
65°	10382.9	9866.0	7663.2	3605.0	478.7	148.3	105.9	114.4	169.4	203.3	203.3
67.5°	5926.4	5727.3	3702.4	1626.7	199.1	93.2	80.5	89.0	131.3	165.2	156.7
70°	2723.9	2444.3	1423.4	343.1	93.2	63.5	63.5	72.0	105.9	122.8	114.4
72.5°	796.4	754.0	347.4	55.1	38.1	38.1	42.4	55.1	80.5	93.2	84.7
75°	59.3	38.1	25.4	16.9	16.9	25.4	33.9	55.1	80.5	89.0	72.0
77.5°	4.2	8.5	4.2	4.2	12.7	25.4	38.1	67.8	105.9	110.1	80.5
80°	4.2	4.2	0.0	4.2	12.7	25.4	42.4	76.3	118.6	127.1	67.8
82.5°	0.0	0.0	0.0	4.2	16.9	33.9	50.8	80.5	110.1	135.6	72.0
85°	0.0	0.0	0.0	4.2	25.4	46.6	59.3	21.2	12.7	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°	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6
2.5°	9107.8	8997.6	8955.3	8993.4	8980.7	8968.0	9201.0	9150.1	9141.7	9217.9	9201.0
5°	6837.2	6642.3	7176.1	6960.0	7184.5	7320.1	7345.5	7358.2	7515.0	7349.8	7565.8
7.5°	4871.6	4922.4	4918.2	5062.2	5320.6	5549.4	5684.9	5579.0	5570.6	5549.4	5456.2
10°	3893.0	3804.1	3787.1	3753.2	3833.7	4028.6	4193.8	4062.5	3969.3	4096.4	4058.3
12.5°	3181.4	3058.5	2990.7	2855.2	2859.4	2990.7	2990.7	2990.7	3083.9	3155.9	3211.0
15°	2440.0	2338.4	2338.4	2202.8	2173.2	2177.4	2245.2	2253.6	2401.9	2444.3	2465.5
17.5°	1707.2	1652.1	1715.6	1770.7	1736.8	1745.3	1770.7	1779.2	1800.4	1783.4	1825.8
20°	1313.2	1304.7	1321.7	1419.1	1491.1	1533.5	1503.8	1461.5	1436.1	1376.8	1376.8
22.5°	1114.1	1131.1	1160.7	1241.2	1334.4	1359.8	1325.9	1228.5	1152.2	1143.8	1148.0
25°	991.3	1008.2	1054.8	1105.6	1156.5	1198.8	1164.9	1092.9	1050.6	1012.4	1012.4
27.5°	915.0	923.5	948.9	987.0	1029.4	1063.3	1050.6	1012.4	965.8	948.9	910.8
30°	855.7	868.4	898.1	906.5	944.7	961.6	940.4	932.0	902.3	881.1	868.4
32.5°	826.1	821.8	843.0	851.5	855.7	868.4	843.0	855.7	851.5	817.6	804.9
35°	622.7	656.6	711.7	758.3	771.0	787.9	783.7	766.7	720.1	682.0	635.4
37.5°	559.2	580.4	610.0	648.1	699.0	720.1	711.7	669.3	614.2	588.8	580.4
40°	516.8	529.5	554.9	580.4	631.2	669.3	639.7	601.5	559.2	538.0	525.3
42.5°	478.7	482.9	495.6	521.0	559.2	618.5	567.6	516.8	499.9	487.2	478.7
45°	436.3	436.3	453.3	466.0	508.3	563.4	512.6	466.0	457.5	449.0	444.8
47.5°	402.4	406.7	415.1	432.1	466.0	504.1	470.2	432.1	410.9	406.7	398.2
50°	360.1	364.3	381.3	398.2	440.6	461.7	440.6	398.2	377.0	364.3	364.3
52°	326.2	338.9	355.8	389.7	419.4	453.3	427.9	381.3	355.8	343.1	334.7
52.5°	321.9	330.4	347.4	385.5	419.4	449.0	423.6	377.0	347.4	338.9	330.4
55°	288.1	300.8	330.4	377.0	415.1	449.0	415.1	372.8	330.4	309.2	300.8
57.5°	275.4	283.8	321.9	381.3	410.9	449.0	415.1	372.8	330.4	292.3	283.8
60°	262.6	279.6	321.9	368.5	406.7	453.3	419.4	368.5	321.9	275.4	275.4
62.5°	249.9	262.6	317.7	360.1	389.7	436.3	402.4	360.1	309.2	262.6	258.4
65°	216.0	237.2	279.6	300.8	334.7	377.0	343.1	313.5	271.1	233.0	228.8
67.5°	165.2	173.7	207.6	233.0	254.2	292.3	275.4	237.2	207.6	177.9	177.9
70°	114.4	122.8	148.3	161.0	182.2	203.3	190.6	161.0	139.8	122.8	118.6
72.5°	80.5	84.7	93.2	101.7	110.1	118.6	114.4	93.2	80.5	76.3	72.0
75°	63.5	72.0	76.3	72.0	67.8	63.5	63.5	55.1	46.6	42.4	42.4
77.5°	63.5	67.8	63.5	55.1	46.6	42.4	38.1	33.9	25.4	21.2	25.4
80°	55.1	55.1	55.1	46.6	42.4	38.1	33.9	29.7	25.4	21.2	21.2
82.5°	59.3	59.3	55.1	46.6	46.6	38.1	38.1	33.9	29.7	21.2	21.2
85°	0.0	0.0	0.0	8.5	21.2	38.1	38.1	33.9	29.7	25.4	25.4
87.5°	0.0	0.0	0.0	0.0	4.2	8.5	16.9	21.2	25.4	25.4	25.4
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°	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6
2.5°	9353.5	9514.4	9819.4	10124.4	10310.8	10531.1	10929.3	11141.1	11416.5	11552.0	11818.9
5°	7536.1	7917.4	8053.0	8400.3	8773.1	9145.9	9739.0	10391.3	10933.6	11306.3	11789.3
7.5°	5498.5	5587.5	6112.8	6345.8	6955.8	7633.6	8442.7	9264.5	9950.8	10560.8	10929.3
10°	4121.8	4448.0	4778.4	5223.2	5714.6	6413.6	7188.8	8095.3	8984.9	9594.9	10060.9
12.5°	3312.7	3571.1	4011.7	4490.3	5096.1	5557.9	6337.3	7235.4	8387.6	8984.9	9599.2
15°	2507.8	2838.2	3338.1	3833.7	4473.4	4960.6	5748.5	6879.5	8362.2	9184.0	9713.5
17.5°	1859.7	2084.2	2533.2	3088.2	3740.5	4426.8	5490.1	6841.4	8646.0	9624.6	10171.0
20°	1423.4	1499.6	1783.4	2279.1	2986.5	3884.6	5070.7	7006.6	9484.8	10696.3	11251.3
22.5°	1152.2	1186.1	1296.3	1639.4	2325.7	3410.1	4871.6	7121.0	10429.4	11979.9	12721.2
25°	1004.0	995.5	1067.5	1215.8	1817.3	2965.3	4617.4	7553.1	11585.9	13488.0	14153.0
27.5°	915.0	915.0	948.9	1054.8	1508.1	2677.3	4456.4	7862.3	12750.9	14813.9	15174.0
30°	868.4	876.9	974.3	1008.2	1253.9	2334.1	4189.6	8175.8	13865.0	15661.1	16156.7
32.5°	804.9	771.0	749.8	834.5	1054.8	2024.9	3922.7	8307.1	14767.3	16699.0	17122.6
35°	618.5	601.5	627.0	690.5	906.5	1762.2	3626.2	8455.4	15805.1	17902.1	17986.8
37.5°	559.2	554.9	571.9	627.0	762.5	1533.5	3414.4	8417.3	16597.3	18897.6	18668.8
40°	516.8	516.8	529.5	576.1	682.0	1372.5	3194.1	8383.4	17364.1	20015.9	19346.6
42.5°	482.9	482.9	504.1	533.8	648.1	1266.6	3028.9	8336.8	18008.0	20702.2	19744.8
45°	436.3	449.0	482.9	512.6	656.6	1194.6	2906.0	8158.9	18228.2	20693.7	19554.2
47.5°	402.4	419.4	453.3	495.6	593.1	1173.4	2821.3	8002.1	18152.0	20185.3	18956.9
50°	364.3	385.5	432.1	504.1	504.1	1131.1	2732.3	8141.9	18096.9	19791.4	18385.0
52°	338.9	355.8	415.1	491.4	440.6	1042.1	2677.3	8413.0	18321.4	19740.5	18130.8
52.5°	334.7	347.4	402.4	482.9	419.4	1025.2	2639.1	8476.6	18393.4	19613.5	18304.5
55°	296.5	313.5	368.5	377.0	343.1	843.0	2516.3	8620.6	18037.6	19363.5	18139.3
57.5°	279.6	288.1	326.2	309.2	296.5	635.4	2164.7	8396.1	16021.2	17198.8	16876.9
60°	258.4	266.9	305.0	241.5	249.9	444.8	1626.7	7290.4	12865.2	14331.0	14911.3
62.5°	249.9	245.7	288.1	194.9	211.8	321.9	1148.0	5926.4	9912.6	11797.7	12801.7
65°	220.3	216.0	207.6	165.2	182.2	249.9	686.3	3867.6	6985.4	8925.6	9476.3
67.5°	169.4	177.9	152.5	131.3	152.5	194.9	381.3	1732.6	3664.3	5354.5	5799.3
70°	118.6	127.1	122.8	114.4	135.6	161.0	220.3	593.1	1516.5	2812.8	3100.9
72.5°	72.0	89.0	93.2	97.4	118.6	139.8	156.7	190.6	402.4	995.5	1237.0
75°	42.4	59.3	72.0	84.7	97.4	118.6	131.3	135.6	139.8	186.4	300.8
77.5°	29.7	42.4	63.5	80.5	97.4	118.6	139.8	148.3	139.8	131.3	139.8
80°	25.4	42.4	59.3	76.3	101.7	122.8	139.8	139.8	135.6	118.6	127.1
82.5°	25.4	42.4	63.5	80.5	97.4	118.6	135.6	139.8	127.1	118.6	122.8
85°	29.7	46.6	67.8	84.7	105.9	97.4	89.0	72.0	67.8	55.1	59.3
87.5°	29.7	42.4	42.4	46.6	50.8	50.8	50.8	46.6	38.1	33.9	33.9
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: P533593

CATALOG NUMBER: GALN-SA9A-735-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6	10827.6
2.5°	11831.6	12170.5	12157.8	12166.3	12115.4	11772.3	11607.1	11187.7	11306.3	11255.5
5°	12284.9	12619.5	12907.6	12873.7	12484.0	12018.0	11327.5	10675.1	10497.2	10234.6
7.5°	11831.6	12636.5	12903.4	12865.2	12289.1	11691.8	10590.4	9938.1	9628.8	9455.1
10°	11111.5	12043.4	12373.9	12441.6	12051.9	11145.4	10132.9	9086.6	8921.4	8620.6
12.5°	10700.6	11378.4	11581.7	11763.8	11628.3	10950.5	9785.6	8781.6	8552.8	8353.7
15°	10365.9	10768.3	10853.1	11060.6	11141.1	10776.8	9967.7	9112.0	8548.6	8527.4
17.5°	10675.1	10509.9	10200.7	10264.2	10518.4	10781.1	10437.9	9764.4	9217.9	9150.1
20°	11187.7	10459.1	9760.1	9916.9	10128.7	10933.6	11149.6	10675.1	10361.7	10188.0
22.5°	11776.6	10548.1	9620.3	9696.6	10099.0	11276.7	12301.8	12039.2	11454.6	11204.7
25°	12865.2	10793.8	9730.5	9781.3	10332.0	11755.4	13343.9	13538.8	13191.4	13140.6
27.5°	13928.5	11429.2	9971.9	9857.6	10450.6	12221.3	13975.1	15021.5	14411.4	14292.8
30°	14470.8	11946.0	10332.0	10137.2	10942.0	12505.2	14356.4	15987.3	15453.5	15398.5
32.5°	15301.0	12416.2	10611.6	10361.7	11217.4	12856.8	15068.1	17042.1	16525.3	16249.9
35°	15648.4	12928.8	11225.8	10933.6	12005.3	13348.2	15432.4	17982.5	17821.6	17554.7
37.5°	16317.7	13479.5	11950.2	11933.3	12958.4	13987.8	16089.0	19261.9	19232.2	18770.5
40°	16372.8	14081.0	13094.0	13627.8	14432.6	15101.9	16665.1	19617.7	20100.6	19787.1
42.5°	16457.5	15135.8	15072.3	15512.9	16203.3	16059.3	16686.3	19702.4	20439.5	20253.1
45°	16495.6	16190.6	17084.5	17897.8	18185.9	17313.2	16487.2	19541.4	20617.4	20151.5
47.5°	16190.6	17097.2	18711.2	20282.8	20367.5	18084.2	16402.4	19376.2	20723.3	20414.1
50°	16233.0	17664.8	20117.6	21524.0	21214.7	18766.2	16271.1	19274.6	20668.3	20460.7
52°	16131.3	17677.5	20316.7	21498.6	21282.5	18389.2	16046.6	18884.8	20617.4	20765.7
52.5°	16245.7	17601.3	20109.1	21515.5	21235.9	18575.6	16017.0	19100.9	20647.1	20346.3
55°	15851.7	16694.7	18893.3	19490.6	19448.3	16860.0	15106.2	18385.0	19871.9	19876.1
57.5°	14326.7	14470.8	14818.1	14805.4	14610.5	13255.0	12920.3	16906.6	17715.7	17275.1
60°	12623.8	10594.7	9658.5	9277.2	9061.2	8840.9	11429.2	15466.3	15542.5	15356.1
62.5°	10908.1	7345.5	6100.1	5994.2	6045.0	6849.9	11047.9	14894.4	14436.9	14034.4
65°	8802.8	5354.5	4431.0	4291.2	4786.9	5655.3	8942.6	11420.7	10717.5	10382.9
67.5°	5528.2	3905.7	2995.0	2732.3	3329.6	3893.0	5875.6	7176.1	6388.1	5926.4
70°	3278.8	2181.6	1355.6	1215.8	1368.3	2075.7	3291.5	3579.6	2961.1	2723.9
72.5°	1292.0	800.6	377.0	321.9	334.7	728.6	1211.5	1181.9	893.8	796.4
75°	347.4	241.5	131.3	105.9	89.0	135.6	194.9	127.1	46.6	59.3
77.5°	161.0	144.0	114.4	89.0	67.8	50.8	25.4	8.5	8.5	4.2
80°	139.8	122.8	105.9	89.0	67.8	42.4	21.2	4.2	4.2	4.2
82.5°	131.3	114.4	97.4	80.5	63.5	42.4	21.2	4.2	0.0	0.0
85°	55.1	72.0	80.5	76.3	67.8	42.4	21.2	4.2	0.0	0.0
87.5°	29.7	25.4	21.2	16.9	12.7	8.5	8.5	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)