

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: P459484

Luminaire Tested: **GALN-SA9B-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34510 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

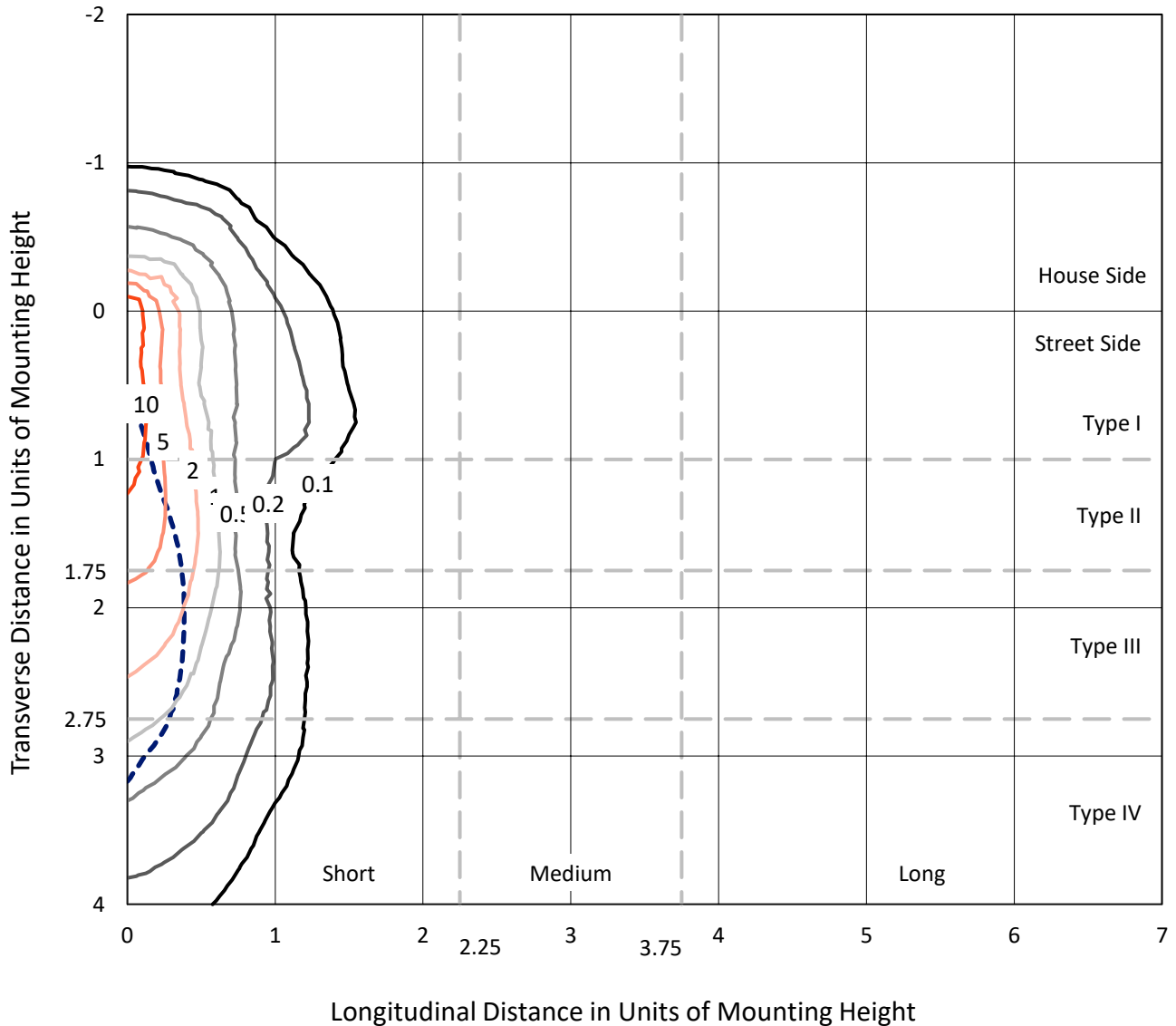
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

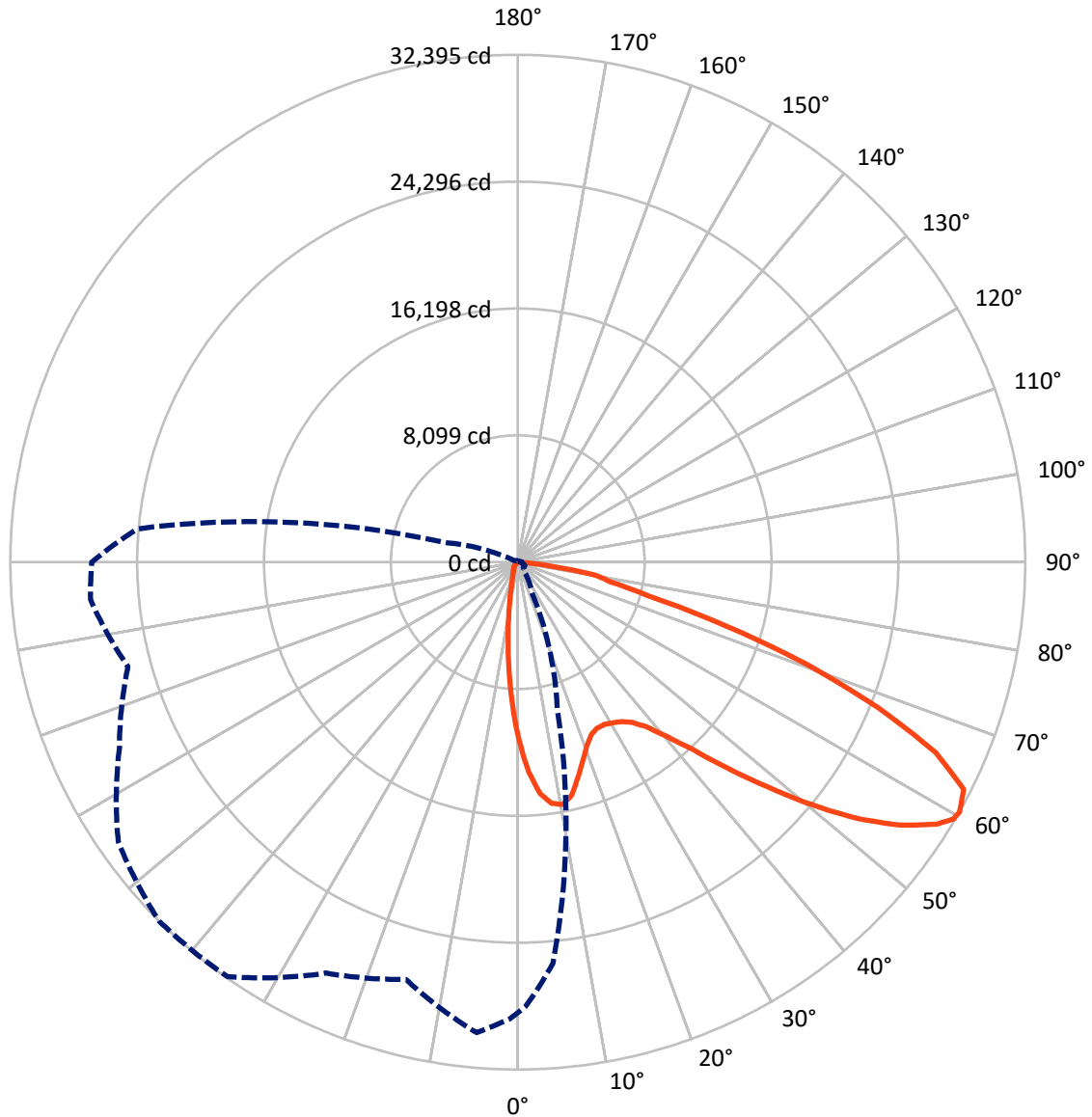
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4256.5	0.0	4256.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	30253.5	0.0	30253.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	34510.0	0.0	34510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.3	2.5
10°-20°	1684.8	4.9
20°-30°	2470.4	7.2
30°-40°	3673.9	10.6
40°-50°	5346.7	15.5
50°-60°	7710.3	22.3
60°-70°	8480.6	24.6
70°-80°	3798.6	11.0
80°-90°	496.3	1.4
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°	34510.0	100.0
0°-180°	34510.0	100.0

Coefficient of Utilization



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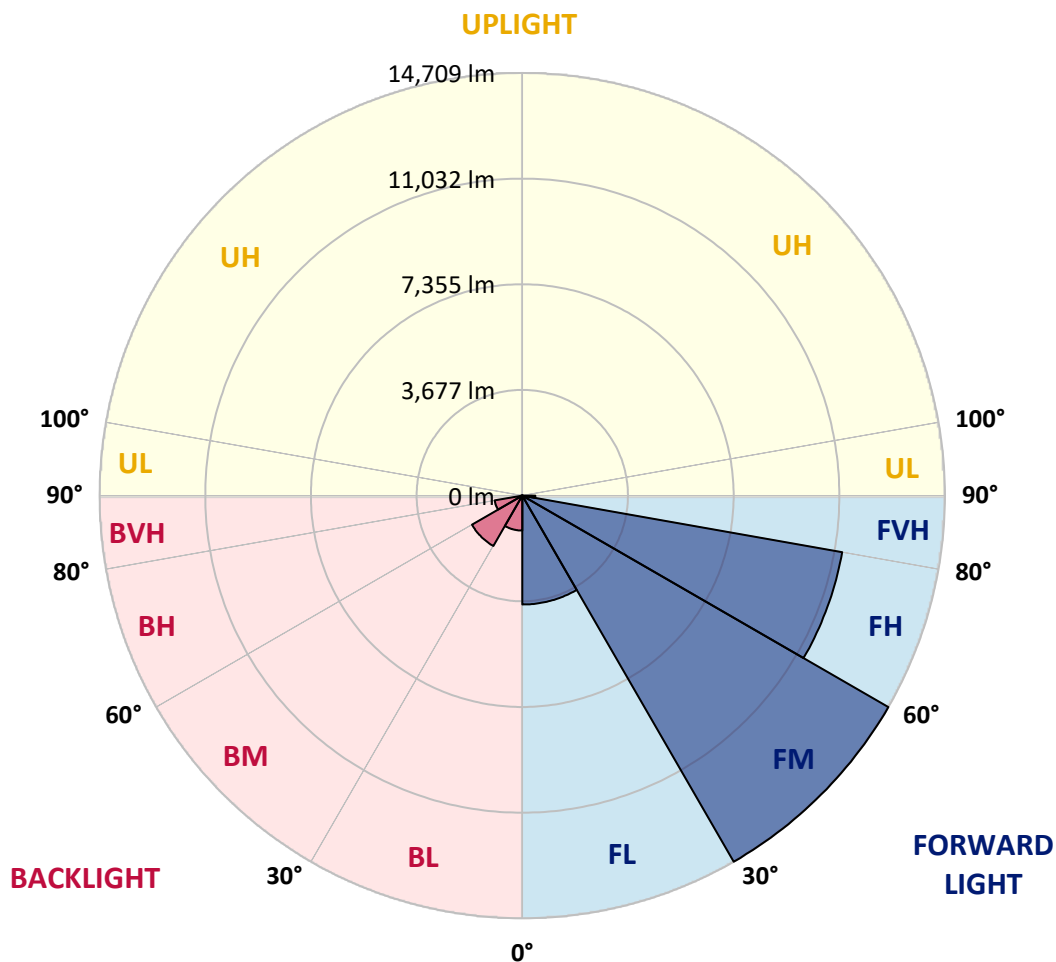
CATALOG NUMBER: GALN-SA9B-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3787.4	11.0			
FM	(30°-60°)	14709.2	42.6			
FH	(60°-80°)	11303.0	32.8			G4/12000
FVH	(80°-90°)	453.9	1.3			G3/500
BL	(0°-30°)	1216.2	3.5	B3/2500		
BM	(30°-60°)	2021.7	5.9	B2/2500		
BH	(60°-80°)	976.1	2.8	B2/1000		G2/1000
BVH	(80°-90°)	42.4	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0
2.5°	12539.3	12484.2	12358.3	11975.3	11642.1	11206.7	10766.0	10419.7	10207.2	9816.3	9638.0
5°	12148.4	12174.7	11810.0	11023.0	10146.9	9548.8	8895.6	8376.2	7804.3	7442.3	7061.9
7.5°	11128.0	11075.5	10679.4	9582.9	8517.8	7652.1	6825.8	6154.2	5731.9	5393.5	5110.2
10°	10254.4	10215.1	9708.8	8297.5	7153.7	6505.7	5947.0	5359.4	4905.5	4409.7	4013.6
12.5°	9706.2	9617.0	9034.6	7560.3	6629.0	6025.7	5417.1	4805.9	4178.9	3677.8	3197.8
15°	9522.5	9394.0	8746.0	7305.9	6293.3	5527.3	4763.9	4060.8	3339.4	2785.9	2423.9
17.5°	9855.7	9643.2	8953.3	7261.3	5891.9	4876.7	3937.6	3022.0	2271.8	1849.4	1626.4
20°	10619.1	10375.1	9477.9	7216.7	5445.9	4147.4	2993.2	2135.4	1571.3	1340.5	1217.2
22.5°	11752.3	11416.5	10254.4	7287.5	5034.1	3436.5	2161.6	1508.4	1248.7	1104.4	1017.8
25°	13113.8	12833.1	11238.2	7539.3	4708.8	2877.7	1671.0	1232.9	1051.9	962.7	897.2
27.5°	14606.5	14157.9	12510.5	7841.0	4412.4	2444.9	1466.4	1101.8	936.5	855.2	821.1
30°	15668.9	15320.0	13575.5	8050.9	4042.5	2119.6	1340.5	1086.0	939.1	842.1	779.1
32.5°	16718.2	16272.2	14467.4	8147.9	3772.3	1894.0	1159.5	947.0	823.7	773.9	710.9
35°	17841.0	17374.0	15356.7	8095.5	3570.3	1744.5	1051.9	844.7	705.7	621.7	558.8
37.5°	18976.9	18483.7	16240.8	7906.6	3444.4	1684.1	968.0	802.7	666.3	579.7	511.5
40°	20325.2	19666.8	17069.7	7751.8	3313.2	1652.7	912.9	776.5	637.5	545.6	477.4
42.5°	21427.0	20800.0	17854.1	7670.5	3224.0	1579.2	912.9	755.5	619.1	516.8	446.0
45°	22471.1	21820.5	18701.4	7736.1	3187.3	1487.4	923.4	752.9	606.0	495.8	425.0
47.5°	23344.6	22780.6	19572.3	7982.7	3140.1	1387.7	868.3	789.6	598.1	477.4	404.0
50°	24375.6	23829.9	20724.0	8481.1	3056.1	1288.0	800.1	849.9	595.5	461.7	385.6
52.5°	25828.9	25238.6	22313.7	9047.7	2922.3	1135.9	737.1	842.1	585.0	435.5	367.3
55°	27604.8	27127.4	24155.2	9727.1	2738.7	965.4	637.5	747.6	553.5	390.9	335.8
57.5°	28743.3	28336.7	25535.1	10021.0	2458.0	789.6	561.4	627.0	506.3	348.9	299.1
59°	28877.1	28509.9	25823.6	9923.9	2274.4	721.4	524.7	537.8	493.2	325.3	278.1
60°	28764.3	28384.0	25708.2	9735.0	2103.9	674.2	493.2	477.4	495.8	312.2	262.3
62.5°	28040.3	27389.7	24588.1	8777.5	1838.9	619.1	438.1	390.9	438.1	280.7	233.5
65°	26642.1	25666.2	22371.4	7429.1	1734.0	587.6	372.5	327.9	333.2	246.6	202.0
67.5°	24199.8	22969.5	19420.2	6036.2	1689.4	590.2	314.8	293.8	257.1	209.9	178.4
70°	20338.3	19110.6	15582.3	4965.9	1668.4	590.2	267.6	251.8	215.1	175.8	154.8
72.5°	14412.3	13090.2	10511.5	3900.8	1503.1	587.6	228.2	228.2	175.8	146.9	125.9
75°	8142.7	8153.2	6608.1	2759.7	1248.7	485.3	183.6	181.0	128.5	112.8	94.4
77.5°	4745.5	4661.6	4454.3	1185.7	579.7	220.4	128.5	110.2	89.2	81.3	68.2
80°	2439.7	2006.8	1954.3	430.2	207.2	139.0	89.2	63.0	57.7	52.5	47.2
82.5°	721.4	724.0	645.3	173.1	115.4	91.8	44.6	34.1	31.5	28.9	28.9
85°	49.8	31.5	36.7	52.5	70.8	36.7	2.6	7.9	7.9	10.5	13.1
87.5°	5.2	2.6	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°	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0
2.5°	9441.2	9556.6	9341.5	9346.8	9168.4	9226.1	9016.2	9084.4	8961.1	9055.6	9333.7
5°	7103.9	7130.1	6957.0	6901.9	6928.1	7035.7	7077.6	6886.1	6967.4	6807.4	6796.9
7.5°	5005.2	5036.7	4937.0	4923.9	5112.8	5068.2	5149.5	4952.8	4766.5	4847.8	4698.3
10°	3887.7	3756.5	3551.9	3494.2	3457.5	3481.1	3481.1	3302.7	3276.5	3205.7	3313.2
12.5°	3069.2	2909.2	2715.1	2452.8	2387.2	2381.9	2284.9	2127.5	2077.6	2017.3	2106.5
15°	2229.8	2164.2	2001.6	1854.7	1705.1	1676.3	1518.9	1390.3	1219.8	1196.2	1188.3
17.5°	1568.7	1471.7	1469.0	1385.1	1298.5	1240.8	1093.9	947.0	881.4	873.6	873.6
20°	1175.2	1141.1	1086.0	1075.5	1049.3	983.7	852.6	773.9	742.4	745.0	755.5
22.5°	989.0	965.4	915.5	891.9	881.4	823.7	726.7	674.2	658.4	658.4	661.1
25°	884.0	863.1	808.0	771.2	758.1	716.2	640.1	600.7	587.6	587.6	587.6
27.5°	805.3	779.1	721.4	689.9	666.3	619.1	571.9	532.5	519.4	519.4	522.0
30°	750.3	721.4	668.9	627.0	590.2	548.3	508.9	474.8	459.1	456.5	459.1
32.5°	676.8	650.6	598.1	571.9	529.9	480.1	448.6	417.1	401.4	404.0	401.4
35°	527.3	519.4	482.7	490.6	466.9	425.0	396.1	362.0	343.7	341.0	346.3
37.5°	480.1	448.6	406.6	409.2	401.4	385.6	338.4	301.7	288.6	288.6	291.2
40°	443.3	411.9	364.6	341.0	343.7	343.7	293.8	254.5	241.3	238.7	244.0
42.5°	411.9	380.4	327.9	288.6	278.1	291.2	249.2	209.9	196.7	191.5	196.7
45°	390.9	356.8	296.4	251.8	220.4	236.1	204.6	173.1	157.4	157.4	154.8
47.5°	369.9	338.4	272.8	217.7	183.6	175.8	167.9	139.0	123.3	120.7	123.3
50°	351.5	320.0	246.6	188.9	154.8	136.4	136.4	110.2	99.7	94.4	97.1
52.5°	333.2	299.1	223.0	167.9	133.8	110.2	97.1	89.2	81.3	78.7	81.3
55°	306.9	272.8	199.4	144.3	115.4	91.8	76.1	73.5	68.2	63.0	68.2
57.5°	275.4	244.0	175.8	123.3	91.8	70.8	63.0	60.3	55.1	52.5	52.5
59°	257.1	228.2	162.6	107.6	81.3	63.0	57.7	55.1	49.8	44.6	47.2
60°	246.6	223.0	154.8	99.7	73.5	57.7	52.5	49.8	44.6	42.0	44.6
62.5°	217.7	199.4	136.4	81.3	57.7	42.0	36.7	39.3	36.7	34.1	36.7
65°	191.5	175.8	115.4	63.0	44.6	28.9	26.2	34.1	31.5	28.9	31.5
67.5°	170.5	152.2	97.1	47.2	31.5	15.7	18.4	28.9	28.9	26.2	28.9
70°	146.9	131.2	78.7	34.1	15.7	7.9	13.1	21.0	26.2	23.6	26.2
72.5°	120.7	102.3	60.3	23.6	7.9	0.0	7.9	18.4	26.2	23.6	26.2
75°	94.4	76.1	44.6	13.1	0.0	0.0	2.6	15.7	26.2	23.6	26.2
77.5°	68.2	55.1	26.2	2.6	0.0	0.0	2.6	15.7	26.2	23.6	26.2
80°	44.6	39.3	10.5	0.0	0.0	0.0	2.6	15.7	26.2	26.2	28.9
82.5°	28.9	21.0	0.0	0.0	0.0	0.0	5.2	21.0	28.9	31.5	31.5
85°	13.1	0.0	0.0	0.0	0.0	0.0	10.5	26.2	34.1	34.1	34.1
87.5°	0.0	0.0	0.0	0.0	0.0	5.2	18.4	31.5	39.3	39.3	39.3
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°	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0
2.5°	9380.9	9546.1	9779.6	10139.0	10430.2	10889.3	11240.8	11720.8	12206.2	12353.1	12581.3
5°	6904.5	7117.0	7646.9	8129.6	8433.9	9404.5	10018.3	10986.3	11854.6	12271.7	12725.6
7.5°	4795.4	5047.2	5451.2	6125.4	6765.5	7555.1	8546.7	9653.7	10926.0	11521.5	12161.6
10°	3365.7	3680.5	4249.7	4803.2	5608.6	6358.8	7337.3	8559.8	9963.2	10666.3	11469.0
12.5°	2124.9	2405.6	3158.4	3780.2	4784.9	5655.8	6558.2	7665.2	9291.7	10013.1	10855.2
15°	1214.6	1450.7	1802.2	2599.7	3714.6	4866.2	5991.6	7277.0	8948.0	9837.3	10747.6
17.5°	905.0	968.0	1125.4	1576.6	2591.8	3937.6	5469.6	7158.9	9181.5	10225.6	11264.4
20°	760.8	802.7	876.2	1054.6	1652.7	3032.5	4960.6	7179.9	9937.0	11248.7	12235.0
22.5°	682.1	708.3	768.6	884.0	1128.0	2208.8	4365.1	7303.2	10852.5	12505.2	13643.7
25°	598.1	632.2	684.7	784.4	939.1	1532.0	3777.5	7578.7	12135.3	14100.2	15170.5
27.5°	532.5	564.0	616.5	708.3	823.7	1170.0	3092.9	7814.8	13488.9	15705.6	16581.8
30°	466.9	498.4	550.9	624.3	729.3	947.0	2355.7	7953.8	14803.2	16909.7	17583.9
32.5°	411.9	438.1	487.9	553.5	640.1	802.7	1857.3	7809.5	15807.9	18003.6	18454.8
35°	356.8	388.2	430.2	490.6	566.6	684.7	1545.1	7311.1	16671.0	19129.0	19291.6
37.5°	299.1	335.8	380.4	435.5	495.8	629.6	1240.8	6760.2	17594.4	20532.5	20264.9
40°	251.8	285.9	327.9	388.2	443.3	577.1	954.9	6172.6	18591.2	21849.4	21327.3
42.5°	204.6	241.3	291.2	346.3	438.1	503.7	739.8	5564.0	19485.8	22995.7	22287.4
45°	162.6	194.1	246.6	317.4	435.5	432.8	571.9	4963.3	20160.0	23814.2	23003.6
47.5°	128.5	154.8	207.2	309.5	401.4	367.3	459.1	4590.8	20868.2	24551.3	23551.9
50°	102.3	128.5	178.4	322.7	351.5	314.8	385.6	4651.1	21552.9	24926.5	23777.5
52.5°	86.6	112.8	154.8	254.5	270.2	275.4	338.4	4929.2	22437.0	25327.8	24226.0
55°	76.1	99.7	131.2	178.4	209.9	246.6	309.5	5131.1	23620.1	26188.3	25215.0
57.5°	60.3	86.6	118.0	152.2	173.1	215.1	285.9	5146.9	24690.4	27292.7	26529.3
59°	55.1	78.7	110.2	144.3	154.8	194.1	270.2	5013.1	24729.7	27457.9	27132.6
60°	49.8	76.1	104.9	133.8	146.9	183.6	257.1	4858.3	24373.0	27195.6	27381.9
62.5°	42.0	65.6	91.8	107.6	125.9	152.2	223.0	4296.9	22644.2	26007.3	26920.2
65°	36.7	57.7	78.7	89.2	104.9	131.2	196.7	3439.1	20734.5	24396.6	25598.0
67.5°	34.1	52.5	68.2	76.1	91.8	120.7	175.8	2429.2	18260.7	22353.0	23612.2
70°	31.5	49.8	60.3	70.8	81.3	102.3	149.5	1416.6	14066.1	18769.6	20099.6
72.5°	31.5	47.2	52.5	60.3	70.8	91.8	139.0	766.0	9617.0	14317.9	16036.1
75°	31.5	44.6	47.2	52.5	63.0	83.9	123.3	401.4	6217.2	9947.5	12277.0
77.5°	31.5	42.0	47.2	49.8	60.3	73.5	107.6	251.8	4142.2	6967.4	8297.5
80°	34.1	42.0	44.6	49.8	57.7	68.2	89.2	167.9	2434.4	4192.0	5049.8
82.5°	36.7	42.0	47.2	52.5	60.3	65.6	78.7	104.9	1122.8	2772.8	3137.5
85°	39.3	44.6	49.8	55.1	63.0	65.6	73.5	76.1	183.6	1251.3	1692.0
87.5°	42.0	47.2	52.5	57.7	68.2	68.2	68.2	68.2	63.0	133.8	341.0
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: P459484

CATALOG NUMBER: GALN-SA9B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0	11406.0
2.5°	12869.8	13166.3	13373.5	13426.0	13276.5	13208.2	13019.4	12725.6	12547.2	12539.3
5°	13562.4	14257.6	14740.2	14821.6	14533.0	14045.1	13465.3	12717.7	12279.6	12148.4
7.5°	13444.3	14661.5	15438.0	15550.8	15065.5	14134.3	13011.5	11807.4	11330.0	11128.0
10°	12959.0	14443.8	15553.5	15731.8	15083.9	13772.3	12345.2	11002.1	10409.2	10254.4
12.5°	12544.6	14045.1	15031.4	15278.0	14787.5	13478.4	11946.4	10485.3	9850.4	9706.2
15°	12363.5	13572.9	14176.2	14302.2	14220.8	13294.8	11904.5	10406.6	9679.9	9522.5
17.5°	12544.6	13171.5	13247.6	13376.1	13557.1	13276.5	12308.5	10834.2	10049.8	9855.7
20°	13019.4	12822.6	12507.8	12562.9	12977.4	13352.5	13027.2	11781.2	10826.3	10619.1
22.5°	13827.3	12736.1	12022.5	11975.3	12500.0	13607.0	14081.8	13064.0	11956.9	11752.3
25°	14818.9	12953.8	11844.1	11741.8	12313.7	13979.5	15228.2	14635.3	13426.0	13113.8
27.5°	15899.7	13405.0	11844.1	11744.5	12298.0	14310.0	16209.3	16025.7	14947.5	14606.5
30°	16492.6	13777.5	12014.7	11901.8	12492.1	14501.5	16733.9	17261.2	16091.2	15668.9
32.5°	17022.5	14294.3	12347.8	12135.3	12898.7	14784.8	17203.5	18310.5	17001.5	16718.2
35°	17510.4	14847.8	12806.9	12560.3	13433.8	15173.1	17722.9	19412.3	18268.6	17841.0
37.5°	18048.2	15490.5	13523.0	13313.2	14328.4	15928.6	18339.4	20860.4	19514.6	18976.9
40°	18633.2	16235.5	14700.9	14611.7	15750.2	16783.8	19118.5	22405.5	20936.4	20325.2
42.5°	19228.7	17093.3	16143.7	16290.6	17360.9	17982.6	19918.6	23593.8	22101.2	21427.0
45°	19769.1	18189.9	18019.4	18746.0	19239.2	19152.6	20511.5	24430.7	23116.4	22471.1
47.5°	20451.1	19787.4	20288.5	21408.6	21421.8	20424.9	20960.1	25115.3	23990.0	23344.6
50°	21214.5	21673.6	23218.7	24359.8	24052.9	21676.2	21484.7	25925.9	24892.4	24375.6
52.5°	22098.6	23785.3	25925.9	27193.0	26476.8	23040.3	22358.3	26802.1	26324.7	25828.9
55°	23126.9	25225.5	28625.3	29635.3	28913.9	24735.0	23685.7	27990.5	27943.2	27604.8
57.5°	24289.0	26747.0	30188.8	31555.5	30912.8	26723.4	25540.3	29110.6	28932.2	28743.3
59°	25207.2	27528.8	30878.7	32295.3	31907.0	28116.4	26786.4	29808.4	29160.4	28877.1
60°	25763.3	28058.7	31133.2	32395.0	32305.8	28945.3	27576.0	30149.4	29157.8	28764.3
62.5°	27413.3	28984.7	31036.1	31951.6	32300.5	30535.1	29892.3	30524.6	28617.4	28040.3
65°	28001.0	28677.8	29428.0	29315.2	29614.3	30453.7	31371.9	30112.7	27463.2	26642.1
67.5°	26857.2	25312.1	25577.0	24824.2	24677.3	27074.9	30771.1	28098.0	25204.5	24199.8
70°	22639.0	19391.3	19257.5	19603.8	18654.2	21920.2	27631.1	24218.2	21476.8	20338.3
72.5°	17820.0	13704.0	12576.0	13851.0	13822.1	16723.4	22953.8	17185.1	14509.4	14412.3
75°	14013.6	9540.9	8373.5	8580.8	8979.5	12106.5	18281.7	10912.9	8934.9	8142.7
77.5°	9407.1	6760.2	6306.4	6051.9	6482.1	7772.8	11566.1	5918.1	5010.5	4745.5
80°	5422.3	4910.8	5577.1	5062.9	5293.8	4897.7	5752.9	2715.1	2253.4	2439.7
82.5°	3528.3	2796.4	2980.1	2214.1	3027.3	3053.5	1846.8	802.7	679.4	721.4
85°	2206.2	1311.6	737.1	524.7	1044.1	1920.2	577.1	49.8	57.7	49.8
87.5°	571.9	217.7	91.8	136.4	167.9	149.5	133.8	7.9	2.6	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)