

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: P534295

Luminaire Tested: **GALN-SA9D-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534295
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-SA9D-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA 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: 36116 lumens
Efficiency: N/A
Efficacy: 65.4 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

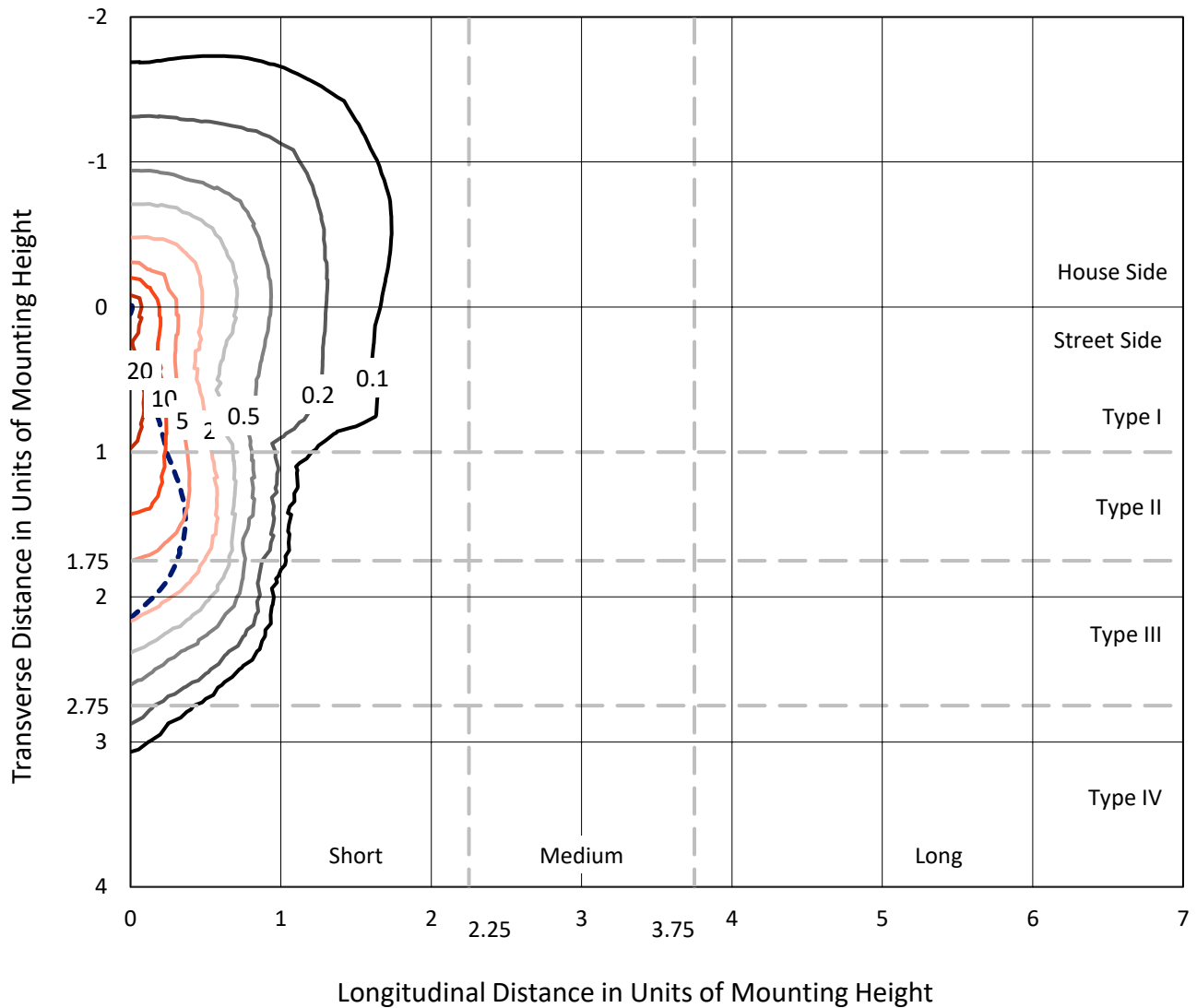
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

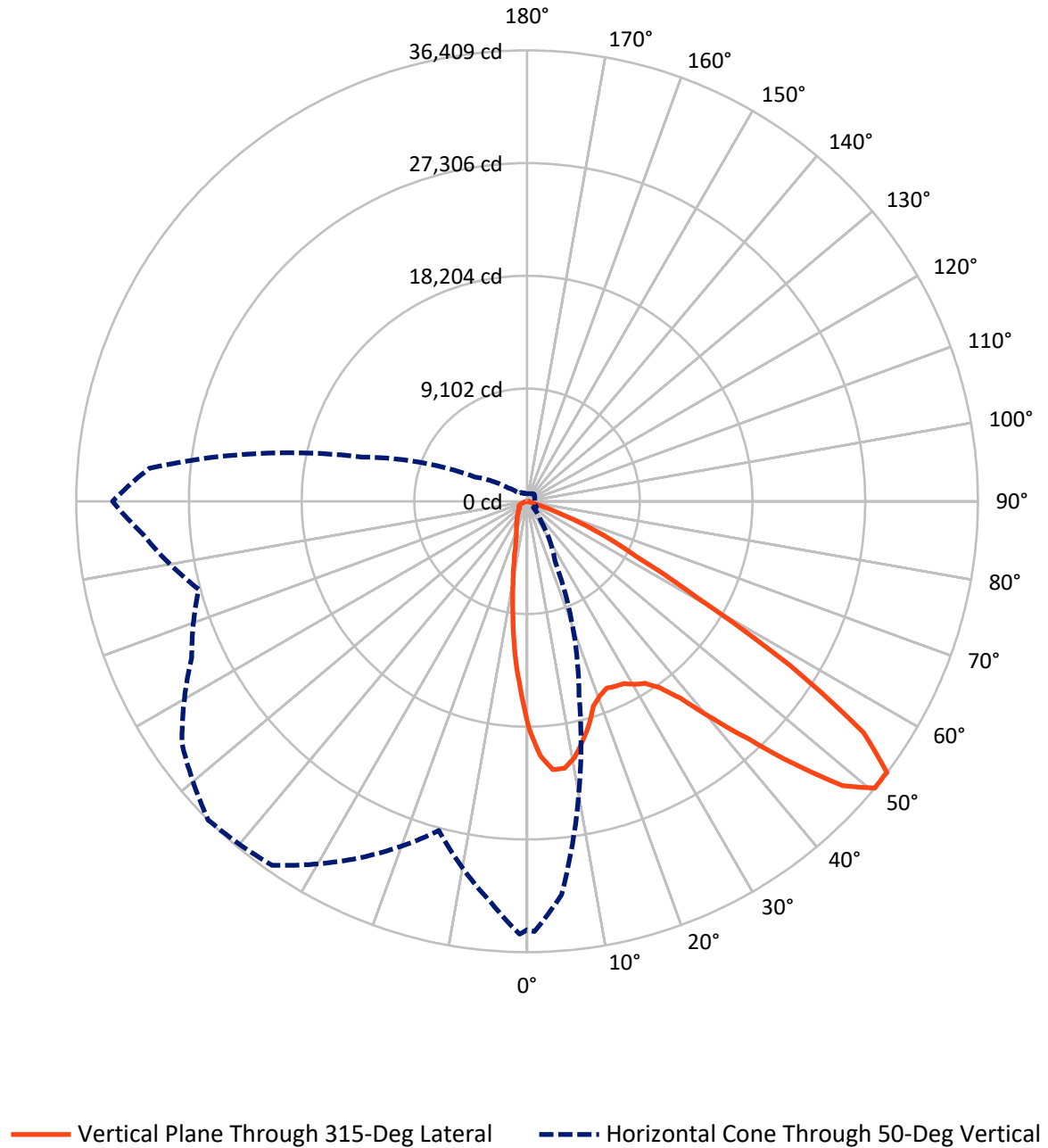
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7234.0	0.0	7234.0
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	28882.0	0.0	28882.0
	% Fixture	80.0	0.0	80.0
Total	Lumens	36116.0	0.0	36116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1335.0	3.7
10°-20°	2653.3	7.3
20°-30°	3986.0	11.0
30°-40°	5982.9	16.6
40°-50°	8408.5	23.3
50°-60°	9070.0	25.1
60°-70°	4211.2	11.7
70°-80°	396.2	1.1
80°-90°	73.0	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°	36116.0	100.0
0°-180°	36116.0	100.0

Coefficient of Utilization



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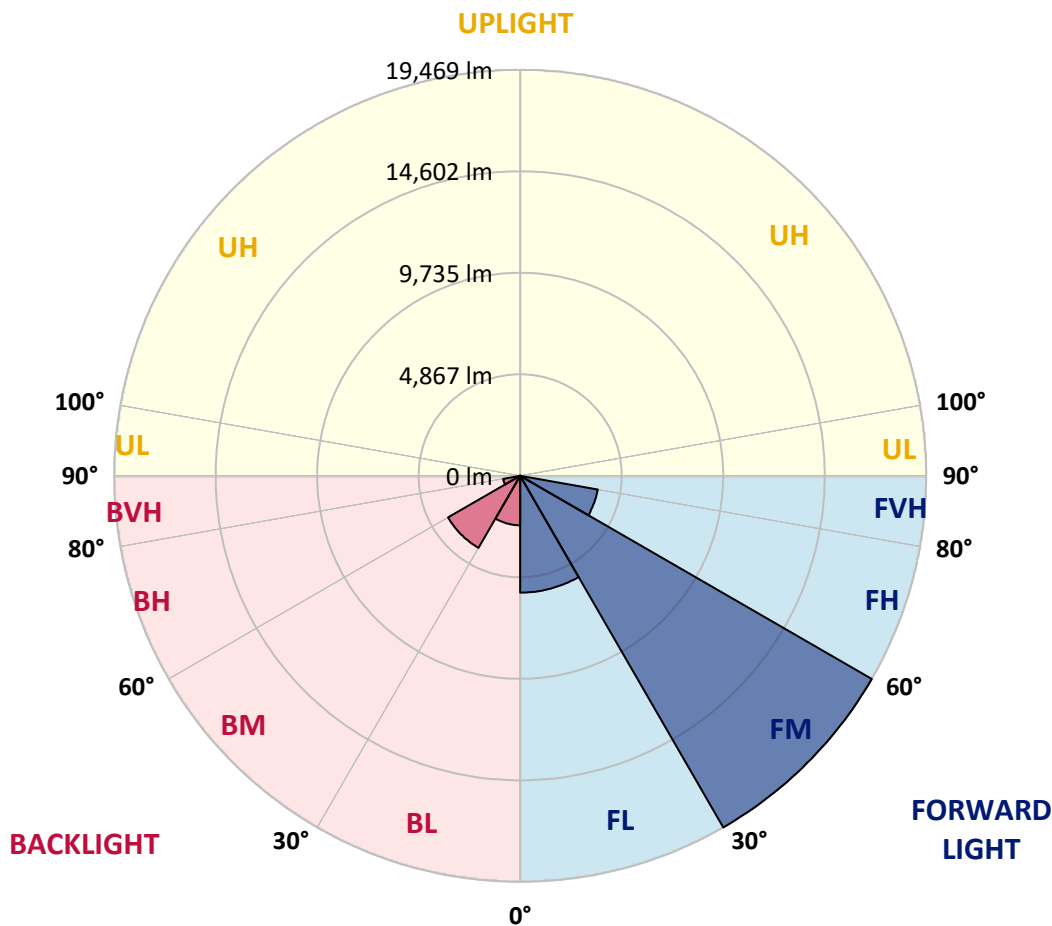
CATALOG NUMBER: GALN-SA9D-735-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5603.1	15.5			
FM (30°-60°)	19469.2	53.9			
FH (60°-80°)	3776.8	10.5			G2/5000
FVH (80°-90°)	32.9	0.1			G1/100
BL (0°-30°)	2371.1	6.6	B3/2500		
BM (30°-60°)	3992.1	11.1	B3/5000		
BH (60°-80°)	830.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	40.1	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°	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4
2.5°	19039.1	18745.3	18372.7	18064.6	17606.0	16681.6	16430.8	16129.8	15879.0	15542.3	15069.3
5°	17312.2	17219.0	17047.0	15886.2	15047.8	13930.0	13012.8	12625.8	12117.1	11701.5	11400.5
7.5°	15993.7	15621.1	15076.5	13908.5	12568.5	11371.9	10354.3	9759.6	9086.0	8856.7	8448.3
10°	14582.1	14668.1	13865.5	12224.6	10605.1	9637.8	9007.2	8434.0	7824.9	7423.6	6843.2
12.5°	14130.6	13851.2	13234.9	11207.1	9824.1	8921.2	8154.5	7445.1	6800.2	6155.3	5596.4
15°	14424.4	13994.5	13134.6	10992.1	9222.2	8097.2	7137.0	6176.8	5582.0	4758.0	4177.6
17.5°	15477.8	15133.8	13980.2	11221.4	8914.1	7308.9	5883.0	4894.1	3984.1	3238.9	2945.1
20°	17233.4	16746.1	15298.6	11515.2	8455.4	6355.9	4772.3	3554.2	2694.3	2379.0	2214.2
22.5°	18953.1	18688.0	16860.7	12081.3	8047.0	5510.4	3582.8	2393.3	2013.5	1956.2	1848.7
25°	22227.8	21432.4	19246.9	13105.9	7731.7	4715.0	2701.4	1927.6	1705.4	1662.4	1676.8
27.5°	24176.9	23510.5	21453.9	13786.7	7380.6	4105.9	2285.8	1769.9	1619.4	1526.3	1490.5
30°	26047.1	25273.2	22550.3	14188.0	6628.2	3461.0	2027.9	1698.3	1662.4	1526.3	1483.3
32.5°	27487.4	26727.8	24133.9	14789.9	6320.1	3045.4	1669.6	1325.6	1232.5	1218.2	1347.1
35°	29694.4	28884.7	25488.2	15119.5	6083.6	2830.4	1447.5	1182.3	1074.8	1031.9	1039.0
37.5°	31750.9	31199.2	26742.2	15248.5	5832.8	2765.9	1297.0	1060.5	967.4	938.7	931.5
40°	33470.7	32238.2	27931.6	15384.6	5725.3	2644.1	1203.8	967.4	902.9	859.9	859.9
42.5°	34258.9	33004.9	29264.5	15305.8	5696.7	2450.6	1203.8	888.5	838.4	795.4	788.2
45°	34086.9	33578.2	29859.2	15270.0	5696.7	2257.2	1096.3	867.0	795.4	738.1	723.7
47.5°	34531.2	33864.8	30604.4	15420.4	5582.0	2121.0	924.4	910.0	752.4	680.7	666.4
50°	34610.0	34739.0	31901.4	16201.5	5331.2	1949.1	723.7	895.7	723.7	616.2	601.9
52°	35125.9	34323.4	32295.5	16617.1	5066.1	1820.1	609.1	766.7	695.1	573.3	558.9
52.5°	34416.5	34939.6	32388.7	16767.6	5094.8	1734.1	587.6	752.4	680.7	573.3	537.4
55°	33621.2	34122.8	32008.9	17090.0	4672.0	1361.5	458.6	544.6	616.2	501.6	480.1
57.5°	29221.5	29730.2	27817.0	15649.7	3805.0	960.2	379.8	408.4	544.6	465.8	444.3
60°	25975.4	25610.0	23345.6	13055.8	2701.4	537.4	301.0	315.3	594.7	429.9	422.8
62.5°	23739.8	22958.7	19512.0	10082.0	1648.1	358.3	236.5	243.6	458.6	401.3	401.3
65°	17563.0	16688.8	12962.6	6098.0	809.7	250.8	179.1	193.5	286.6	344.0	344.0
67.5°	10024.7	9687.9	6262.8	2751.6	336.8	157.6	136.1	150.5	222.1	279.5	265.1
70°	4607.5	4134.6	2407.7	580.4	157.6	107.5	107.5	121.8	179.1	207.8	193.5
72.5°	1347.1	1275.5	587.6	93.2	64.5	64.5	71.7	93.2	136.1	157.6	143.3
75°	100.3	64.5	43.0	28.7	28.7	43.0	57.3	93.2	136.1	150.5	121.8
77.5°	7.2	14.3	7.2	7.2	21.5	43.0	64.5	114.7	179.1	186.3	136.1
80°	7.2	7.2	0.0	7.2	21.5	43.0	71.7	129.0	200.6	215.0	114.7
82.5°	0.0	0.0	0.0	7.2	28.7	57.3	86.0	136.1	186.3	229.3	121.8
85°	0.0	0.0	0.0	7.2	43.0	78.8	100.3	35.8	21.5	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°	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4
2.5°	15406.1	15219.8	15148.2	15212.6	15191.1	15169.7	15563.8	15477.8	15463.4	15592.4	15563.8
5°	11565.3	11235.7	12138.6	11773.1	12152.9	12382.2	12425.2	12446.7	12711.8	12432.4	12797.8
7.5°	8240.5	8326.5	8319.3	8562.9	9000.0	9387.0	9616.3	9437.1	9422.8	9387.0	9229.3
10°	6585.2	6434.7	6406.1	6348.8	6484.9	6814.5	7094.0	6871.8	6714.2	6929.2	6864.7
12.5°	5381.4	5173.6	5058.9	4829.6	4836.8	5058.9	5058.9	5058.9	5216.6	5338.4	5431.6
15°	4127.4	3955.4	3955.4	3726.1	3676.0	3683.1	3797.8	3812.1	4062.9	4134.6	4170.4
17.5°	2887.8	2794.6	2902.1	2995.2	2937.9	2952.2	2995.2	3009.6	3045.4	3016.7	3088.4
20°	2221.3	2207.0	2235.7	2400.5	2522.3	2594.0	2543.8	2472.1	2429.2	2328.8	2328.8
22.5°	1884.6	1913.2	1963.4	2099.5	2257.2	2300.2	2242.8	2078.0	1949.1	1934.7	1941.9
25°	1676.8	1705.4	1784.2	1870.2	1956.2	2027.9	1970.5	1848.7	1777.1	1712.6	1712.6
27.5°	1547.8	1562.1	1605.1	1669.6	1741.2	1798.6	1777.1	1712.6	1633.8	1605.1	1540.6
30°	1447.5	1469.0	1519.1	1533.4	1597.9	1626.6	1590.8	1576.4	1526.3	1490.5	1469.0
32.5°	1397.3	1390.1	1426.0	1440.3	1447.5	1469.0	1426.0	1447.5	1440.3	1383.0	1361.5
35°	1053.3	1110.7	1203.8	1282.6	1304.1	1332.8	1325.6	1297.0	1218.2	1153.7	1074.8
37.5°	945.9	981.7	1031.9	1096.3	1182.3	1218.2	1203.8	1132.2	1039.0	996.0	981.7
40°	874.2	895.7	938.7	981.7	1067.7	1132.2	1082.0	1017.5	945.9	910.0	888.5
42.5°	809.7	816.9	838.4	881.4	945.9	1046.2	960.2	874.2	845.5	824.0	809.7
45°	738.1	738.1	766.7	788.2	859.9	953.0	867.0	788.2	773.9	759.6	752.4
47.5°	680.7	687.9	702.2	730.9	788.2	852.7	795.4	730.9	695.1	687.9	673.6
50°	609.1	616.2	644.9	673.6	745.2	781.1	745.2	673.6	637.7	616.2	616.2
52°	551.8	573.3	601.9	659.2	709.4	766.7	723.7	644.9	601.9	580.4	566.1
52.5°	544.6	558.9	587.6	652.1	709.4	759.6	716.6	637.7	587.6	573.3	558.9
55°	487.3	508.8	558.9	637.7	702.2	759.6	702.2	630.6	558.9	523.1	508.8
57.5°	465.8	480.1	544.6	644.9	695.1	759.6	702.2	630.6	558.9	494.4	480.1
60°	444.3	472.9	544.6	623.4	687.9	766.7	709.4	623.4	544.6	465.8	465.8
62.5°	422.8	444.3	537.4	609.1	659.2	738.1	680.7	609.1	523.1	444.3	437.1
65°	365.4	401.3	472.9	508.8	566.1	637.7	580.4	530.3	458.6	394.1	386.9
67.5°	279.5	293.8	351.1	394.1	429.9	494.4	465.8	401.3	351.1	301.0	301.0
70°	193.5	207.8	250.8	272.3	308.1	344.0	322.5	272.3	236.5	207.8	200.6
72.5°	136.1	143.3	157.6	172.0	186.3	200.6	193.5	157.6	136.1	129.0	121.8
75°	107.5	121.8	129.0	121.8	114.7	107.5	107.5	93.2	78.8	71.7	71.7
77.5°	107.5	114.7	107.5	93.2	78.8	71.7	64.5	57.3	43.0	35.8	43.0
80°	93.2	93.2	93.2	78.8	71.7	64.5	57.3	50.2	43.0	35.8	35.8
82.5°	100.3	100.3	93.2	78.8	78.8	64.5	64.5	57.3	50.2	35.8	35.8
85°	0.0	0.0	0.0	14.3	35.8	64.5	64.5	57.3	50.2	43.0	43.0
87.5°	0.0	0.0	0.0	0.0	7.2	14.3	28.7	35.8	43.0	43.0	43.0
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°	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4
2.5°	15821.7	16094.0	16609.9	17125.9	17441.2	17813.8	18487.3	18845.6	19311.4	19540.7	19992.1
5°	12747.7	13392.6	13621.9	14209.5	14840.0	15470.6	16473.8	17577.3	18494.5	19125.1	19942.0
7.5°	9301.0	9451.5	10340.0	10734.1	11766.0	12912.5	14281.1	15671.2	16832.1	17863.9	18487.3
10°	6972.2	7523.9	8082.8	8835.2	9666.4	10848.8	12160.1	13693.5	15198.3	16230.2	17018.4
12.5°	5603.5	6040.6	6785.9	7595.6	8620.3	9401.3	10719.8	12238.9	14188.0	15198.3	16237.3
15°	4242.1	4801.0	5646.5	6484.9	7566.9	8391.0	9723.8	11637.0	14145.0	15535.1	16430.8
17.5°	3145.7	3525.5	4285.1	5223.7	6327.3	7488.1	9286.7	11572.5	14625.1	16280.3	17204.7
20°	2407.7	2536.6	3016.7	3855.1	5051.8	6570.9	8577.3	11852.0	16043.9	18093.2	19031.9
22.5°	1949.1	2006.4	2192.7	2773.1	3933.9	5768.3	8240.5	12045.4	17641.8	20264.4	21518.4
25°	1698.3	1683.9	1805.7	2056.5	3074.1	5015.9	7810.5	12776.3	19598.0	22815.4	23940.4
27.5°	1547.8	1547.8	1605.1	1784.2	2551.0	4528.7	7538.2	13299.4	21568.6	25058.2	25667.3
30°	1469.0	1483.3	1648.1	1705.4	2121.0	3948.3	7086.8	13829.7	23453.1	26491.4	27329.7
32.5°	1361.5	1304.1	1268.3	1411.6	1784.2	3425.2	6635.4	14051.8	24979.4	28246.9	28963.5
35°	1046.2	1017.5	1060.5	1168.0	1533.4	2980.9	6133.8	14302.6	26735.0	30282.0	30425.3
37.5°	945.9	938.7	967.4	1060.5	1289.8	2594.0	5775.5	14238.1	28075.0	31965.9	31579.0
40°	874.2	874.2	895.7	974.5	1153.7	2321.7	5402.9	14180.8	29371.9	33857.6	32725.5
42.5°	816.9	816.9	852.7	902.9	1096.3	2142.5	5123.4	14102.0	30461.1	35018.5	33399.0
45°	738.1	759.6	816.9	867.0	1110.7	2020.7	4915.6	13801.0	30833.7	35004.1	33076.6
47.5°	680.7	709.4	766.7	838.4	1003.2	1984.9	4772.3	13535.9	30704.7	34144.3	32066.2
50°	616.2	652.1	730.9	852.7	852.7	1913.2	4621.8	13772.4	30611.6	33477.8	31098.9
52°	573.3	601.9	702.2	831.2	745.2	1762.7	4528.7	14231.0	30991.4	33391.9	30668.9
52.5°	566.1	587.6	680.7	816.9	709.4	1734.1	4464.2	14338.4	31113.2	33176.9	30962.7
55°	501.6	530.3	623.4	637.7	580.4	1426.0	4256.4	14582.1	30511.3	32754.1	30683.3
57.5°	472.9	487.3	551.8	523.1	501.6	1074.8	3661.6	14202.3	27100.4	29092.5	28547.9
60°	437.1	451.4	515.9	408.4	422.8	752.4	2751.6	12332.1	21762.0	24241.3	25223.0
62.5°	422.8	415.6	487.3	329.6	358.3	544.6	1941.9	10024.7	16767.6	19956.3	21654.6
65°	372.6	365.4	351.1	279.5	308.1	422.8	1160.8	6542.2	11816.1	15098.0	16029.5
67.5°	286.6	301.0	258.0	222.1	258.0	329.6	644.9	2930.7	6198.3	9057.4	9809.8
70°	200.6	215.0	207.8	193.5	229.3	272.3	372.6	1003.2	2565.3	4758.0	5245.2
72.5°	121.8	150.5	157.6	164.8	200.6	236.5	265.1	322.5	680.7	1683.9	2092.4
75°	71.7	100.3	121.8	143.3	164.8	200.6	222.1	229.3	236.5	315.3	508.8
77.5°	50.2	71.7	107.5	136.1	164.8	200.6	236.5	250.8	236.5	222.1	236.5
80°	43.0	71.7	100.3	129.0	172.0	207.8	236.5	236.5	229.3	200.6	215.0
82.5°	43.0	71.7	107.5	136.1	164.8	200.6	229.3	236.5	215.0	200.6	207.8
85°	50.2	78.8	114.7	143.3	179.1	164.8	150.5	121.8	114.7	93.2	100.3
87.5°	50.2	71.7	71.7	78.8	86.0	86.0	86.0	78.8	64.5	57.3	57.3
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: P534295

CATALOG NUMBER: GALN-SA9D-735-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4	18315.4
2.5°	20013.6	20586.9	20565.4	20579.7	20493.7	19913.3	19633.8	18924.4	19125.1	19039.1
5°	20780.3	21346.4	21833.7	21776.4	21117.1	20328.9	19160.9	18057.4	17756.4	17312.2
7.5°	20013.6	21375.1	21826.5	21762.0	20787.5	19777.2	17914.1	16810.6	16287.5	15993.7
10°	18795.5	20371.9	20930.8	21045.5	20386.2	18852.8	17140.2	15370.3	15090.8	14582.1
12.5°	18100.4	19246.9	19590.8	19899.0	19669.7	18523.2	16552.6	14854.4	14467.4	14130.6
15°	17534.3	18215.0	18358.4	18709.5	18845.6	18229.4	16860.7	15413.3	14460.3	14424.4
17.5°	18057.4	17777.9	17254.9	17362.3	17792.3	18236.5	17656.1	16516.8	15592.4	15477.8
20°	18924.4	17692.0	16509.6	16774.8	17133.0	18494.5	18860.0	18057.4	17527.1	17233.4
22.5°	19920.5	17842.4	16273.2	16402.1	17082.9	19074.9	20809.0	20364.7	19375.9	18953.1
25°	21762.0	18258.0	16459.5	16545.5	17477.0	19884.6	22571.8	22901.4	22313.8	22227.8
27.5°	23560.6	19332.9	16867.9	16674.4	17677.6	20672.9	23639.4	25409.3	24377.5	24176.9
30°	24477.8	20207.1	17477.0	17147.4	18508.8	21153.0	24284.3	27043.1	26140.2	26047.1
32.5°	25882.3	21002.5	17949.9	17527.1	18974.6	21747.7	25488.2	28827.4	27953.1	27487.4
35°	26469.9	21869.5	18988.9	18494.5	20307.4	22578.9	26104.4	30418.1	30145.8	29694.4
37.5°	27602.0	22801.1	20214.3	20185.6	21919.7	23660.9	27215.1	32582.1	32532.0	31750.9
40°	27695.2	23818.6	22149.0	23051.8	24413.3	25545.5	28189.6	33184.1	34000.9	33470.7
42.5°	27838.5	25602.8	25495.3	26240.6	27408.6	27164.9	28225.4	33327.4	34574.2	34258.9
45°	27903.0	27387.1	28899.0	30274.8	30762.1	29286.0	27888.7	33055.1	34875.1	34086.9
47.5°	27387.1	28920.5	31650.6	34309.1	34452.4	30590.1	27745.3	32775.6	35054.3	34531.2
50°	27458.7	29880.7	34029.6	36408.6	35885.5	31743.8	27523.2	32603.6	34961.1	34610.0
52°	27286.7	29902.2	34366.4	36365.6	36000.2	31106.0	27143.4	31944.4	34875.1	35125.9
52.5°	27480.2	29773.2	34015.3	36394.3	35921.3	31421.3	27093.3	32309.9	34925.3	34416.5
55°	26813.8	28239.8	31958.7	32969.1	32897.4	28519.2	25552.7	31098.9	33614.0	33621.2
57.5°	24234.2	24477.8	25065.4	25043.9	24714.3	22421.3	21855.2	28598.1	29966.7	29221.5
60°	21353.6	17921.3	16337.6	15692.7	15327.3	14954.7	19332.9	26161.7	26290.7	25975.4
62.5°	18451.5	12425.2	10318.5	10139.4	10225.4	11586.8	18688.0	25194.4	24420.5	23739.8
65°	14890.2	9057.4	7495.3	7258.8	8097.2	9566.1	15126.7	19318.6	18129.1	17563.0
67.5°	9351.2	6606.7	5066.1	4621.8	5632.2	6585.2	9938.7	12138.6	10805.8	10024.7
70°	5546.2	3690.3	2293.0	2056.5	2314.5	3511.2	5567.7	6055.0	5008.8	4607.5
72.5°	2185.5	1354.3	637.7	544.6	566.1	1232.5	2049.4	1999.2	1511.9	1347.1
75°	587.6	408.4	222.1	179.1	150.5	229.3	329.6	215.0	78.8	100.3
77.5°	272.3	243.6	193.5	150.5	114.7	86.0	43.0	14.3	14.3	7.2
80°	236.5	207.8	179.1	150.5	114.7	71.7	35.8	7.2	7.2	7.2
82.5°	222.1	193.5	164.8	136.1	107.5	71.7	35.8	7.2	0.0	0.0
85°	93.2	121.8	136.1	129.0	114.7	71.7	35.8	7.2	0.0	0.0
87.5°	50.2	43.0	35.8	28.7	21.5	14.3	14.3	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)