

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: P534241

Luminaire Tested: **GALN-SA9D-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32424 lumens
Efficiency: N/A
Efficacy: 58.7 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

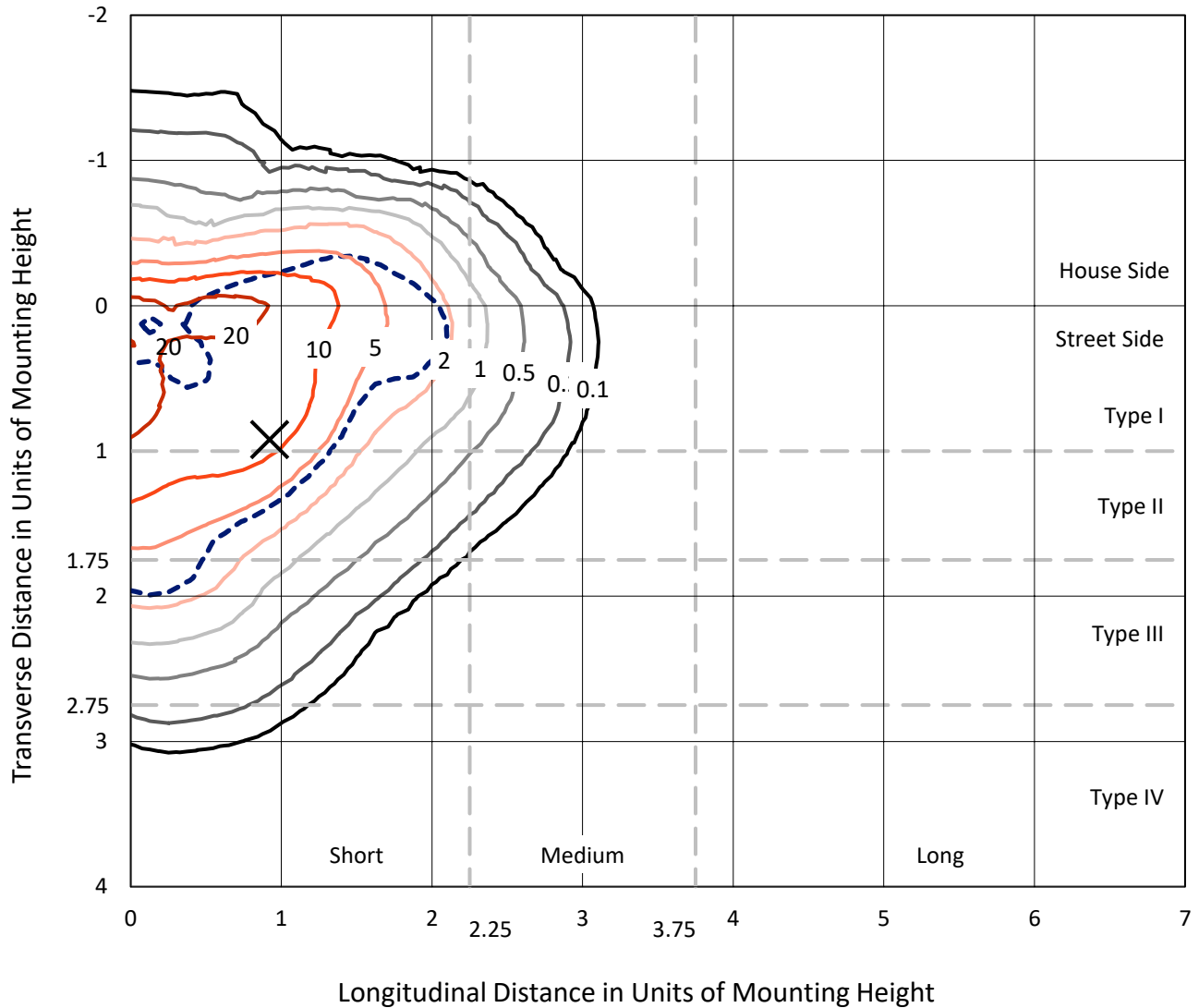
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

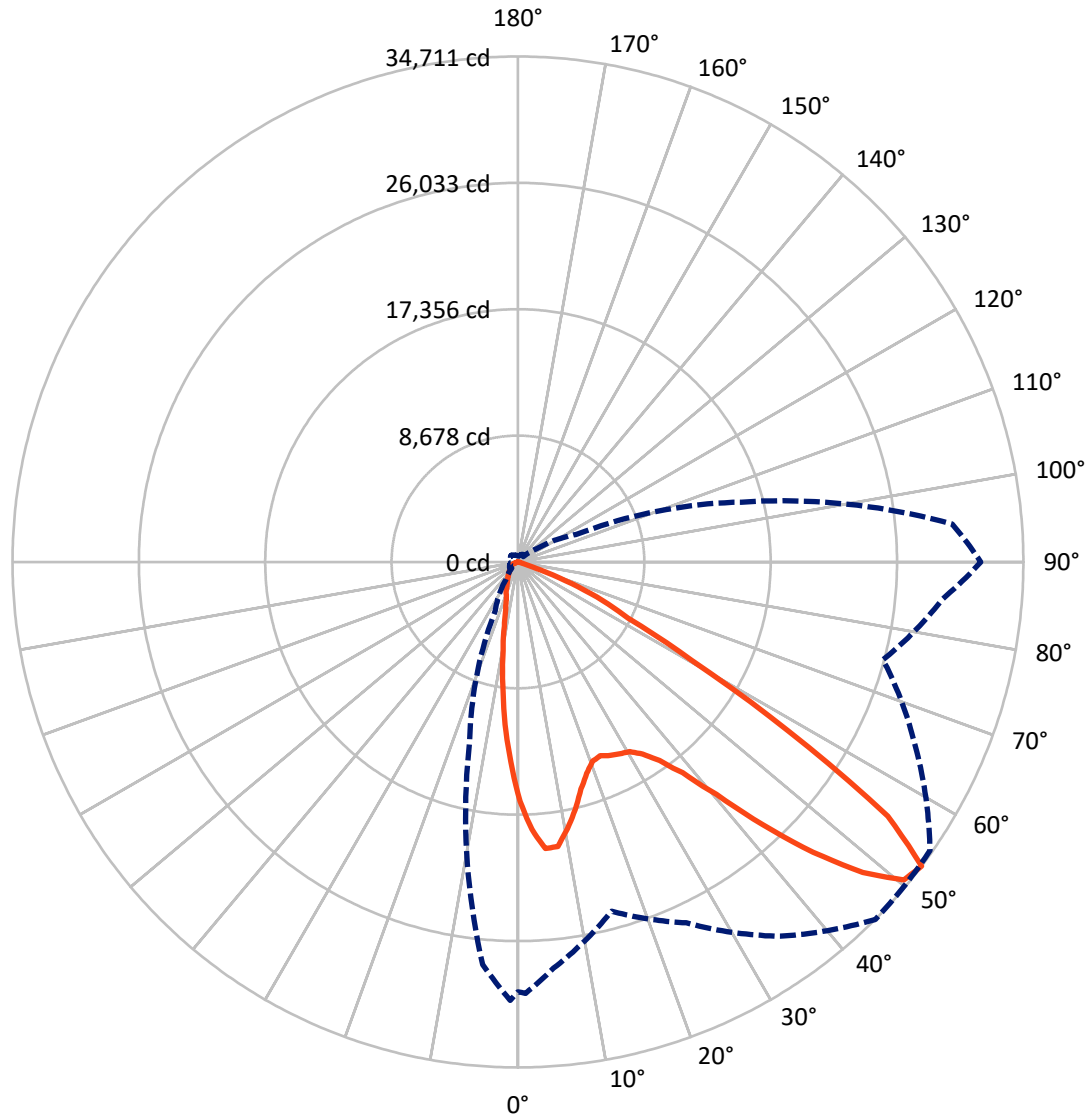
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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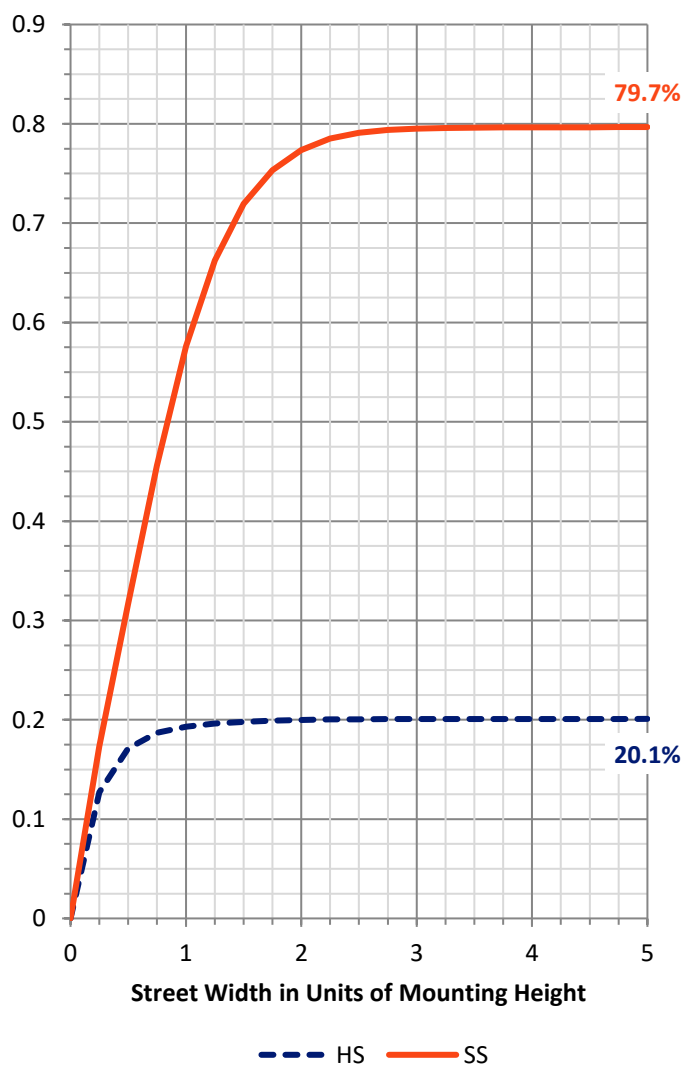
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6580.5	0.0	6580.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	25843.5	0.0	25843.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	32424.0	0.0	32424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1199.0	3.7
10°-20°	2365.5	7.3
20°-30°	3600.0	11.1
30°-40°	5380.6	16.6
40°-50°	7662.4	23.6
50°-60°	8236.9	25.4
60°-70°	3649.9	11.3
70°-80°	295.3	0.9
80°-90°	34.4	0.1
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°	32424.0	100.0
0°-180°	32424.0	100.0

Coefficient of Utilization



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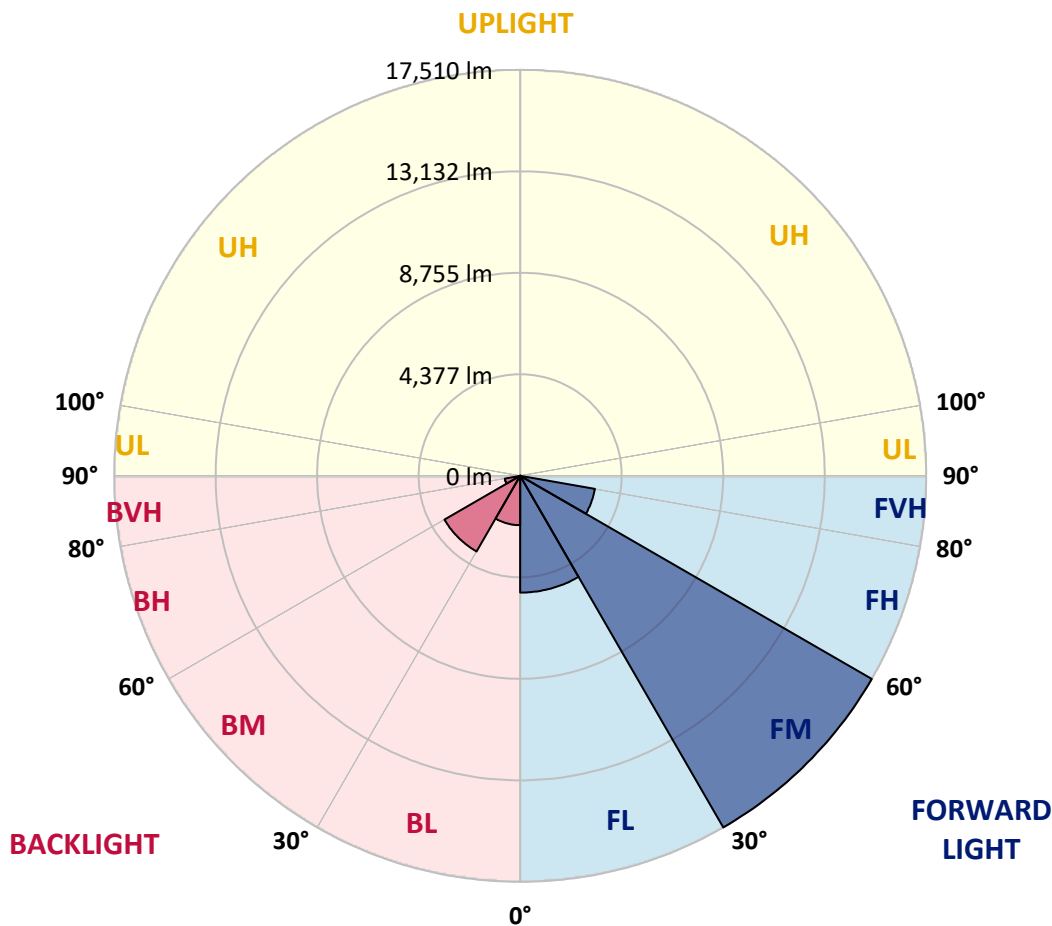
CATALOG NUMBER: GALN-SA9D-727-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5036.1	15.5			
FM (30°-60°)	17510.0	54.0			
FH (60°-80°)	3272.0	10.1			G2/5000
FVH (80°-90°)	25.5	0.1			G1/100
BL (0°-30°)	2128.4	6.6	B3/2500		
BM (30°-60°)	3769.9	11.6	B3/5000		
BH (60°-80°)	673.3	2.1	B2/1000		G2/1000
BVH (80°-90°)	8.9	0.0			G0/10
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°	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5
2.5°	17397.1	17448.1	17728.7	18079.4	18264.4	18685.3	18391.9	18468.4	18309.0	17747.8	17307.8
5°	16867.7	16861.4	17218.5	18085.8	18908.5	19743.9	19769.4	19323.0	18538.6	17677.7	16446.9
7.5°	15273.4	15522.2	15892.0	17275.9	18800.0	19425.0	19724.7	19201.8	17996.5	16765.7	15432.9
10°	14068.1	14195.7	14820.7	16491.5	17607.5	18442.9	18627.9	18328.1	17403.4	15866.5	14374.3
12.5°	13373.0	13436.8	14170.2	15573.2	16753.0	17371.5	17460.8	17601.1	16937.9	15496.6	13704.6
15°	13379.4	13430.4	14418.9	15592.3	16057.8	15892.0	16185.4	16179.0	16466.0	15426.5	14265.8
17.5°	14342.4	14399.8	15292.6	15872.9	15668.8	15279.8	15260.7	15554.0	16159.9	16300.2	15114.0
20°	16000.4	16134.4	16791.2	16759.3	15611.4	14827.0	14610.2	14833.4	16242.8	17039.9	16823.1
22.5°	18232.5	18417.4	18876.6	17996.5	15872.9	14520.9	14450.8	14884.4	16791.2	18691.6	18761.8
25°	20821.6	21134.1	21357.3	20228.5	16804.0	15050.2	14718.6	15464.8	17531.0	20483.6	21229.8
27.5°	22537.1	22862.3	22811.3	21197.9	17428.9	15190.5	14909.9	15605.1	18175.1	20910.9	22518.0
30°	23876.3	24074.0	24431.1	21720.8	18053.9	15585.9	15107.6	16198.1	18385.5	21650.7	24074.0
32.5°	25438.7	25572.7	25598.2	22645.5	19016.9	16083.4	15719.8	16937.9	19316.6	22358.5	25451.5
35°	27013.9	27211.6	26797.1	23787.0	19610.0	17008.0	16740.2	18219.7	20062.7	23091.9	26969.3
37.5°	28723.0	28825.0	27868.5	24258.9	20458.1	18513.1	18366.4	19603.6	21357.3	24418.4	28652.9
40°	30157.9	30253.5	29010.0	24839.3	21350.9	20617.6	20993.8	22243.7	23117.4	25279.3	29494.6
42.5°	30955.0	31178.2	29392.6	24520.4	23142.9	23002.6	24673.5	25113.5	25158.1	25521.6	30247.2
45°	31171.9	31069.8	28761.3	24781.9	24711.7	26924.6	28442.4	29022.7	27186.1	25968.0	30438.5
47.5°	30170.6	30304.6	27830.2	24552.3	26771.6	29896.4	31860.6	32938.3	28697.5	25579.0	29966.6
50°	29360.7	29188.5	27530.5	24386.5	27326.4	31299.4	34328.6	34570.9	30087.7	26057.3	29450.0
52.5°	29520.2	29628.6	28008.8	24826.5	27339.1	31382.3	34711.2	34545.4	30132.4	25948.9	29265.1
55°	29858.1	29379.9	27804.7	23857.2	25508.9	29067.4	30808.4	30553.3	27811.1	24794.6	28812.3
57.5°	25764.0	26503.7	25566.3	21299.9	20936.4	21899.4	21867.5	22651.9	20745.1	21338.2	26229.5
60°	20910.9	21038.5	21389.2	18219.7	14489.0	14157.4	13698.3	13200.8	13959.7	18245.2	23857.2
62.5°	18391.9	18238.9	19488.8	16574.4	10229.1	8564.6	8488.1	8794.2	10771.1	17403.4	22377.7
65°	13366.7	13558.0	14463.5	12862.9	7678.2	6536.7	6421.9	7327.4	8717.7	13947.0	17078.2
67.5°	8162.8	8532.7	8615.6	7933.3	5210.2	4138.8	3973.0	4795.7	6294.3	9023.8	10012.2
70°	3768.9	4215.3	4636.2	4330.1	3016.4	1702.7	1607.1	2015.2	3175.9	5191.1	5312.2
72.5°	1141.5	1147.9	1607.1	1677.2	975.7	382.6	338.0	446.4	1077.8	1715.5	1804.8
75°	82.9	89.3	216.8	248.7	184.9	95.7	102.0	121.2	229.6	382.6	287.0
77.5°	6.4	6.4	6.4	31.9	57.4	63.8	82.9	95.7	121.2	140.3	127.5
80°	6.4	0.0	6.4	25.5	44.6	63.8	76.5	89.3	95.7	108.4	95.7
82.5°	0.0	0.0	0.0	19.1	44.6	63.8	70.1	95.7	108.4	127.5	108.4
85°	0.0	0.0	0.0	19.1	44.6	70.1	63.8	31.9	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5
2.5°	17384.3	17135.6	16568.0	16281.0	15605.1	15509.4	14846.2	14737.8	14514.6	14393.4	14100.0
5°	15904.8	15605.1	14680.4	13902.3	12996.8	12365.4	11880.8	11440.7	11185.6	10949.7	11058.1
7.5°	14699.5	13825.8	12799.1	11498.1	10452.3	9776.3	9036.5	8430.7	8073.6	7831.2	7888.6
10°	13436.8	12869.2	11440.7	9980.4	8717.7	8239.4	7659.0	7193.5	6689.7	6256.1	6052.0
12.5°	13041.4	12199.6	10407.6	8921.7	7965.1	7499.6	6836.4	6300.7	5656.6	5127.3	4942.3
15°	13111.6	12301.7	10127.0	8539.1	7410.3	6606.8	5816.0	5152.8	4444.9	4075.0	3883.7
17.5°	14253.1	12850.1	10312.0	8137.3	6638.7	5522.7	4547.0	3705.2	3175.9	2793.2	2710.3
20°	15656.1	14036.3	10707.4	7844.0	6007.3	4393.9	3322.5	2595.5	2155.5	2091.7	2072.6
22.5°	17709.5	15974.9	11555.5	7646.3	5235.7	3424.6	2276.7	1887.7	1766.5	1753.7	1760.1
25°	20579.3	18404.7	12480.2	7480.5	4655.4	2640.2	1862.1	1600.7	1562.4	1543.3	1575.2
27.5°	21822.8	19871.4	12971.3	7123.4	4126.1	2378.7	1836.6	1587.9	1479.5	1447.6	1466.8
30°	23359.8	20847.1	13742.9	6511.1	3348.0	1957.8	1715.5	1728.2	1677.2	1517.8	1466.8
32.5°	25400.5	22065.2	14131.9	6077.5	2990.9	1619.8	1256.3	1154.3	1288.2	1313.7	1358.3
35°	26707.8	23302.4	14329.6	5822.4	2806.0	1383.9	1065.0	969.3	937.5	943.8	969.3
37.5°	29137.5	24973.2	14578.3	5554.6	2665.7	1205.3	963.0	873.7	829.0	829.0	854.5
40°	30591.5	26299.7	14916.3	5407.9	2525.4	1096.9	873.7	797.2	758.9	758.9	771.6
42.5°	30955.0	26956.5	14801.5	5356.9	2365.9	1071.4	797.2	739.8	695.1	688.7	682.4
45°	31605.5	27957.7	14820.7	5299.5	2200.1	975.7	752.5	688.7	625.0	618.6	612.2
47.5°	32319.8	28678.4	14858.9	5076.3	2040.7	816.3	784.4	637.7	561.2	548.4	548.4
50°	31707.5	29252.3	15190.5	4853.1	1836.6	663.2	771.6	599.5	497.4	478.3	484.7
52.5°	31784.1	29928.3	15892.0	4540.6	1581.6	529.3	625.0	567.6	452.8	420.9	427.3
55°	30559.6	29214.0	15987.7	4209.0	1237.2	408.1	478.3	497.4	382.6	369.9	369.9
57.5°	26306.0	24737.2	14106.4	3411.8	816.3	338.0	344.4	433.7	331.6	318.9	325.2
60°	22511.6	19858.7	11351.5	2251.2	510.2	267.8	248.7	440.0	293.4	287.0	306.1
62.5°	20521.9	16319.3	8609.2	1396.6	350.7	204.1	172.2	357.1	255.1	255.1	280.6
65°	14827.0	10962.4	5006.1	733.4	248.7	159.4	127.5	204.1	210.4	216.8	229.6
67.5°	9183.2	5535.4	2110.9	357.1	165.8	108.4	82.9	127.5	140.3	140.3	153.1
70°	4534.2	2206.5	701.5	204.1	127.5	89.3	57.4	70.1	70.1	63.8	70.1
72.5°	1403.0	663.2	178.6	127.5	89.3	57.4	31.9	25.5	12.8	0.0	6.4
75°	159.4	127.5	114.8	89.3	57.4	25.5	6.4	0.0	0.0	0.0	0.0
77.5°	95.7	108.4	108.4	89.3	57.4	19.1	0.0	0.0	0.0	0.0	0.0
80°	76.5	82.9	89.3	82.9	51.0	25.5	0.0	0.0	0.0	0.0	0.0
82.5°	95.7	108.4	121.2	108.4	70.1	31.9	12.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	19.1	6.4	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°	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5
2.5°	13978.9	13838.6	14036.3	13742.9	13736.5	13742.9	13660.0	13583.5	13704.6	14029.9	14061.8
5°	10669.1	10968.8	11064.5	11377.0	11204.8	10949.7	11000.7	10828.5	11249.4	11434.4	11287.7
7.5°	7767.5	7748.3	8392.4	8430.7	8513.6	8520.0	8507.2	8169.2	7824.8	7901.4	8131.0
10°	6026.5	5701.2	6013.7	5981.8	6185.9	6128.5	6211.4	5847.9	5969.1	5969.1	6115.8
12.5°	4910.5	4566.1	4508.7	4425.8	4508.7	4540.6	4572.5	4502.3	4706.4	4802.0	4904.1
15°	3749.8	3558.5	3507.5	3348.0	3373.5	3462.8	3539.4	3571.2	3507.5	3654.1	3666.9
17.5°	2723.1	2716.7	2748.6	2742.2	2716.7	2697.6	2691.2	2608.3	2582.8	2595.5	2646.5
20°	2066.2	2117.2	2225.7	2334.1	2391.5	2321.3	2225.7	2085.4	2028.0	2040.7	2047.1
22.5°	1766.5	1843.0	1989.7	2110.9	2168.3	2040.7	1868.5	1747.4	1721.8	1715.5	1709.1
25°	1600.7	1690.0	1798.4	1836.6	1830.3	1753.7	1626.2	1575.2	1562.4	1549.7	1492.3
27.5°	1511.4	1543.3	1562.4	1607.1	1626.2	1575.2	1543.3	1466.8	1454.0	1454.0	1415.7
30°	1460.4	1441.3	1466.8	1434.9	1460.4	1422.1	1428.5	1428.5	1396.6	1409.4	1409.4
32.5°	1358.3	1364.7	1364.7	1301.0	1320.1	1275.4	1320.1	1358.3	1364.7	1371.1	1422.1
35°	994.8	1109.6	1167.0	1167.0	1186.2	1154.3	1147.9	1103.3	1045.9	988.5	963.0
37.5°	873.7	918.3	994.8	1039.5	1071.4	1045.9	988.5	918.3	886.4	860.9	835.4
40°	778.0	816.3	867.3	918.3	982.1	950.2	860.9	829.0	790.8	790.8	765.3
42.5°	701.5	720.6	752.5	829.0	899.2	835.4	771.6	746.1	727.0	720.6	714.2
45°	631.3	637.7	669.6	733.4	816.3	752.5	688.7	656.9	663.2	669.6	663.2
47.5°	567.6	580.3	599.5	676.0	727.0	695.1	625.0	605.8	605.8	605.8	612.2
50°	491.0	522.9	561.2	625.0	663.2	644.1	586.7	561.2	548.4	548.4	554.8
52.5°	440.0	465.5	516.6	593.1	644.1	612.2	554.8	516.6	491.0	484.7	497.4
55°	382.6	427.3	510.2	567.6	637.7	605.8	542.1	497.4	452.8	446.4	446.4
57.5°	344.4	414.5	491.0	561.2	618.6	593.1	542.1	484.7	427.3	420.9	420.9
60°	325.2	401.8	478.3	542.1	618.6	580.3	535.7	471.9	408.1	408.1	401.8
62.5°	306.1	376.3	452.8	516.6	593.1	561.2	516.6	452.8	389.0	389.0	376.3
65°	255.1	325.2	376.3	433.7	516.6	484.7	440.0	395.4	344.4	331.6	338.0
67.5°	178.6	223.2	274.2	331.6	382.6	369.9	350.7	318.9	274.2	267.8	261.5
70°	89.3	121.2	165.8	223.2	267.8	255.1	242.3	216.8	191.3	184.9	184.9
72.5°	12.8	38.3	70.1	102.0	140.3	146.7	140.3	133.9	127.5	121.2	127.5
75°	0.0	0.0	0.0	25.5	57.4	70.1	82.9	95.7	95.7	82.9	102.0
77.5°	0.0	0.0	0.0	0.0	6.4	31.9	63.8	82.9	102.0	89.3	121.2
80°	0.0	0.0	0.0	0.0	6.4	38.3	63.8	89.3	102.0	89.3	127.5
82.5°	0.0	0.0	0.0	0.0	6.4	44.6	63.8	82.9	95.7	89.3	114.8
85°	0.0	0.0	0.0	0.0	19.1	38.3	25.5	12.8	6.4	6.4	19.1
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: P534241

CATALOG NUMBER: GALN-SA9D-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5	16440.5
2.5°	14240.3	14693.1	15177.8	15362.7	15936.7	16370.3	16663.7	17295.0	17390.7	17397.1
5°	11440.7	11670.3	12499.4	12888.4	13742.9	14406.1	15114.0	16134.4	16816.7	16867.7
7.5°	8131.0	8768.7	9119.4	10133.4	11185.6	12225.1	13277.4	14463.5	15254.3	15273.4
10°	6543.0	6957.5	7582.5	8341.4	9227.8	10286.5	11689.4	13066.9	13870.5	14068.1
12.5°	5267.6	5994.6	6708.8	7493.2	8169.2	8966.4	10477.8	12314.4	12977.6	13373.0
15°	4055.9	4719.1	5560.9	6479.3	7244.5	8309.5	10031.4	12129.5	13245.5	13379.4
17.5°	2990.9	3584.0	4362.0	5229.3	6377.2	7888.6	10107.9	13066.9	14119.2	14342.4
20°	2149.1	2493.5	3105.7	4113.3	5573.7	7397.6	10184.4	14017.1	15617.8	16000.4
22.5°	1702.7	1843.0	2244.8	3137.6	4674.5	6881.0	10726.5	15834.6	17677.7	18232.5
25°	1479.5	1556.0	1747.4	2474.4	4106.9	6830.0	11593.8	18015.6	20419.9	20821.6
27.5°	1428.5	1441.3	1607.1	2270.3	3800.8	6492.0	11925.4	19565.3	22129.0	22537.1
30°	1505.0	1709.1	1721.8	1919.5	3233.3	5822.4	12097.6	21064.0	23576.6	23876.3
32.5°	1301.0	1237.2	1281.8	1485.9	2844.2	5433.4	12422.8	22371.3	25228.3	25438.7
35°	905.6	950.2	1052.2	1288.2	2487.1	5025.2	12505.7	23812.5	26797.1	27013.9
37.5°	835.4	860.9	943.8	1096.9	2187.4	4795.7	12390.9	24864.8	28423.3	28723.0
40°	778.0	809.9	854.5	994.8	1964.2	4540.6	12231.5	25815.0	29418.1	30157.9
42.5°	733.4	758.9	797.2	950.2	1772.9	4285.5	12008.3	27154.2	30310.9	30955.0
45°	682.4	720.6	765.3	924.7	1664.5	4113.3	11842.5	27071.3	30827.5	31171.9
47.5°	631.3	695.1	746.1	860.9	1632.6	4030.4	11912.6	26758.8	30406.6	30170.6
50°	580.3	663.2	752.5	714.2	1556.0	3864.6	11995.6	27186.1	29405.4	29360.7
52.5°	535.7	631.3	701.5	586.7	1383.9	3705.2	12799.1	27747.3	30113.2	29520.2
55°	471.9	567.6	561.2	471.9	1122.4	3584.0	13430.4	27760.0	29634.9	29858.1
57.5°	427.3	503.8	440.0	395.4	829.0	2997.3	12403.7	23276.9	25368.6	25764.0
60°	395.4	491.0	331.6	312.5	542.1	2161.9	10828.5	18028.4	20164.8	20910.9
62.5°	363.5	465.5	261.5	255.1	376.3	1536.9	8902.6	15088.5	17377.9	18391.9
65°	318.9	331.6	210.4	197.7	267.8	829.0	5420.6	10388.5	12990.4	13366.7
67.5°	261.5	255.1	172.2	159.4	178.6	401.8	2391.5	5203.8	7531.5	8162.8
70°	210.4	210.4	146.7	127.5	127.5	184.9	625.0	2072.6	3405.4	3768.9
72.5°	153.1	159.4	114.8	102.0	95.7	89.3	102.0	414.5	892.8	1141.5
75°	133.9	140.3	114.8	89.3	70.1	57.4	44.6	38.3	51.0	82.9
77.5°	146.7	146.7	121.2	82.9	63.8	44.6	25.5	12.8	12.8	6.4
80°	184.9	191.3	159.4	108.4	76.5	51.0	31.9	12.8	6.4	6.4
82.5°	197.7	216.8	178.6	133.9	95.7	57.4	31.9	6.4	0.0	0.0
85°	51.0	82.9	140.3	121.2	95.7	57.4	31.9	6.4	0.0	0.0
87.5°	0.0	6.4	19.1	19.1	25.5	25.5	19.1	6.4	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)