

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: P533357

Luminaire Tested: **GALN-SA8D-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533357
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-SA8D-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 32170 lumens
Efficiency: N/A
Efficacy: 65.3 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

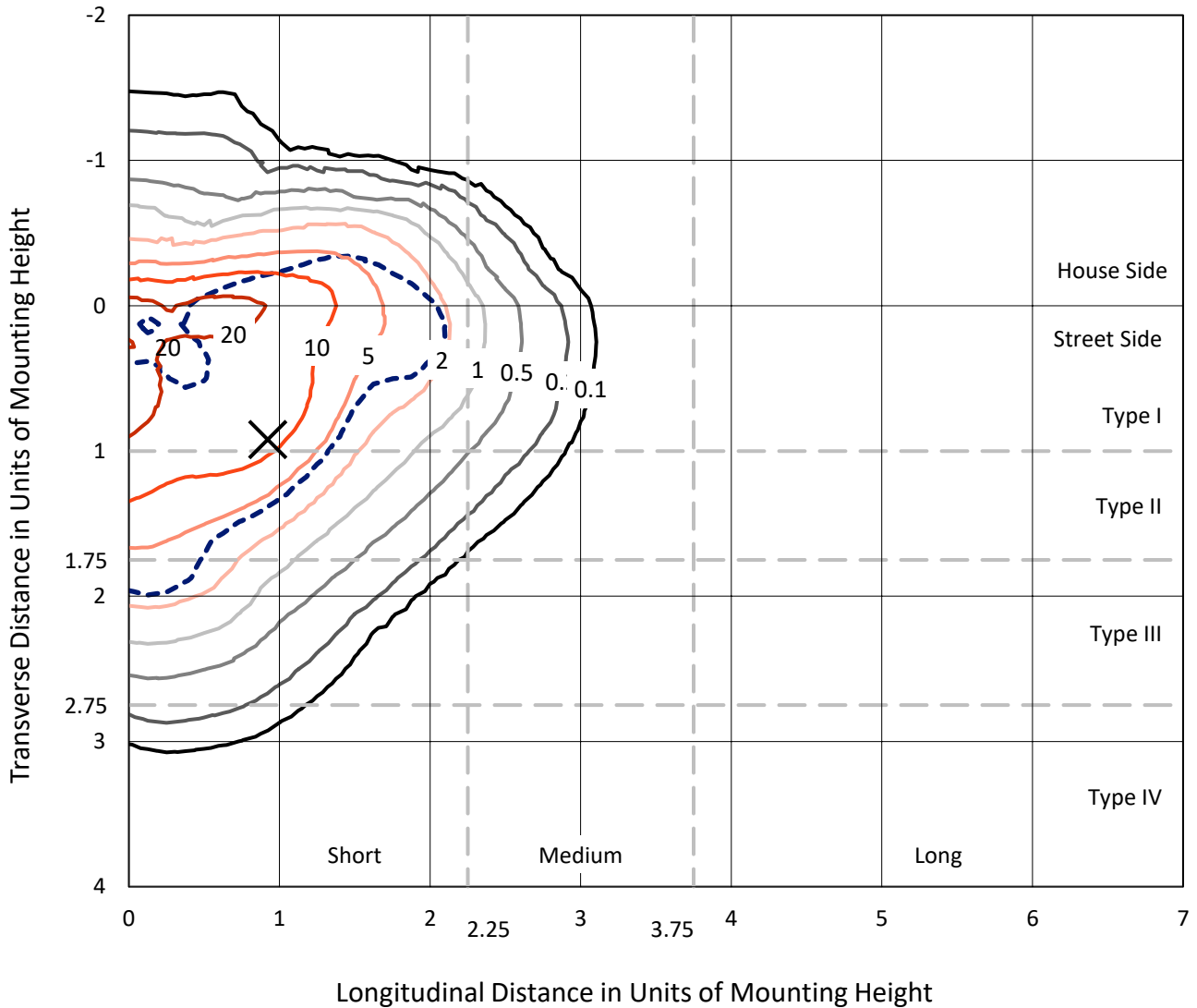
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

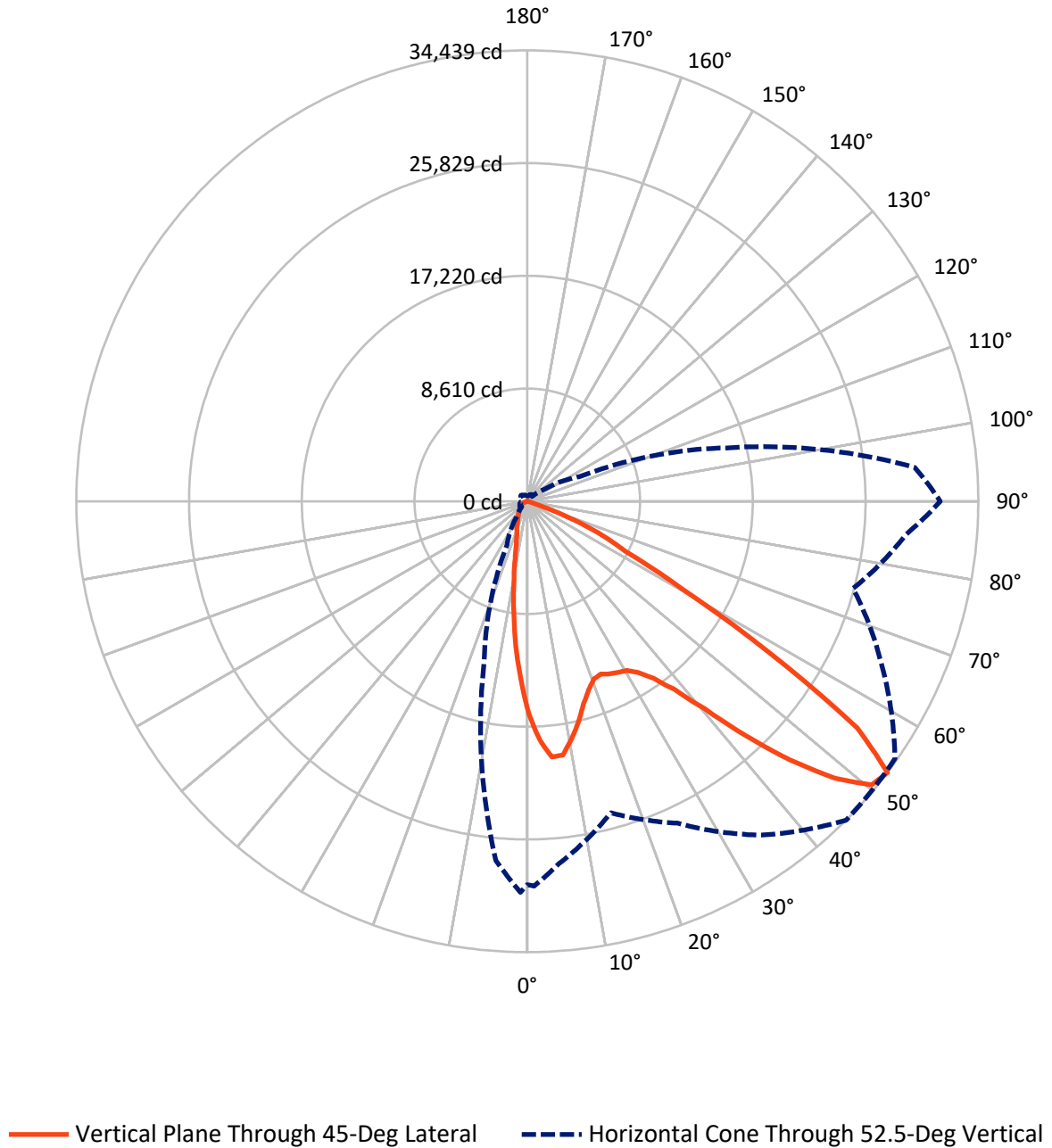
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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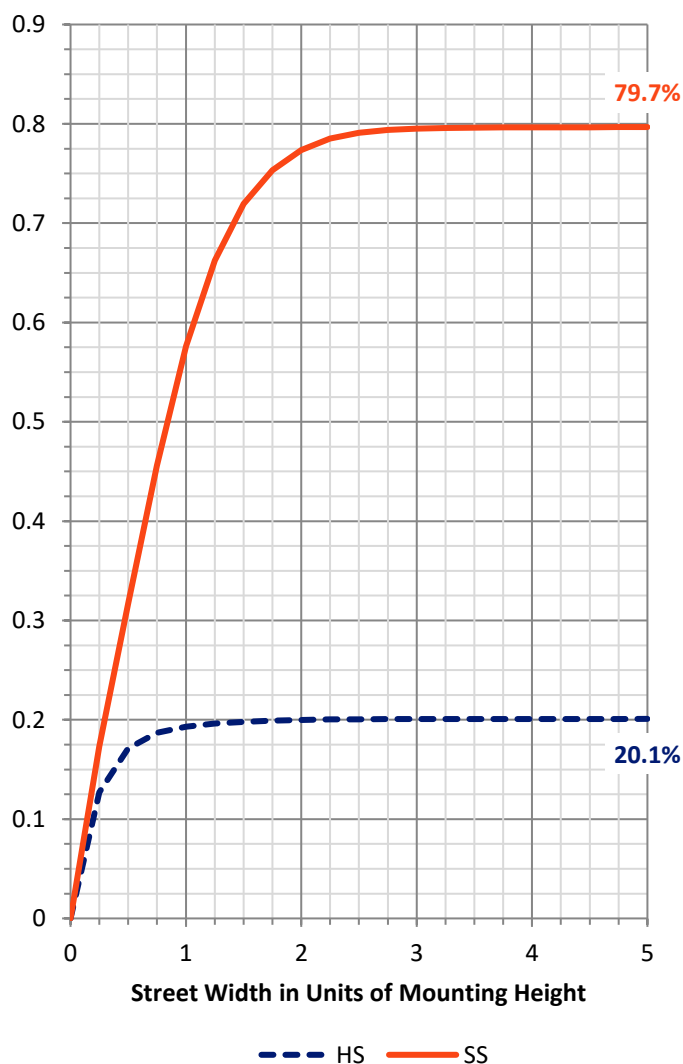
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6528.9	0.0	6528.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	25641.1	0.0	25641.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	32170.0	0.0	32170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1189.6	3.7
10°-20°	2347.0	7.3
20°-30°	3571.8	11.1
30°-40°	5338.4	16.6
40°-50°	7602.4	23.6
50°-60°	8172.3	25.4
60°-70°	3621.3	11.3
70°-80°	293.0	0.9
80°-90°	34.1	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°	32170.0	100.0
0°-180°	32170.0	100.0

Coefficient of Utilization



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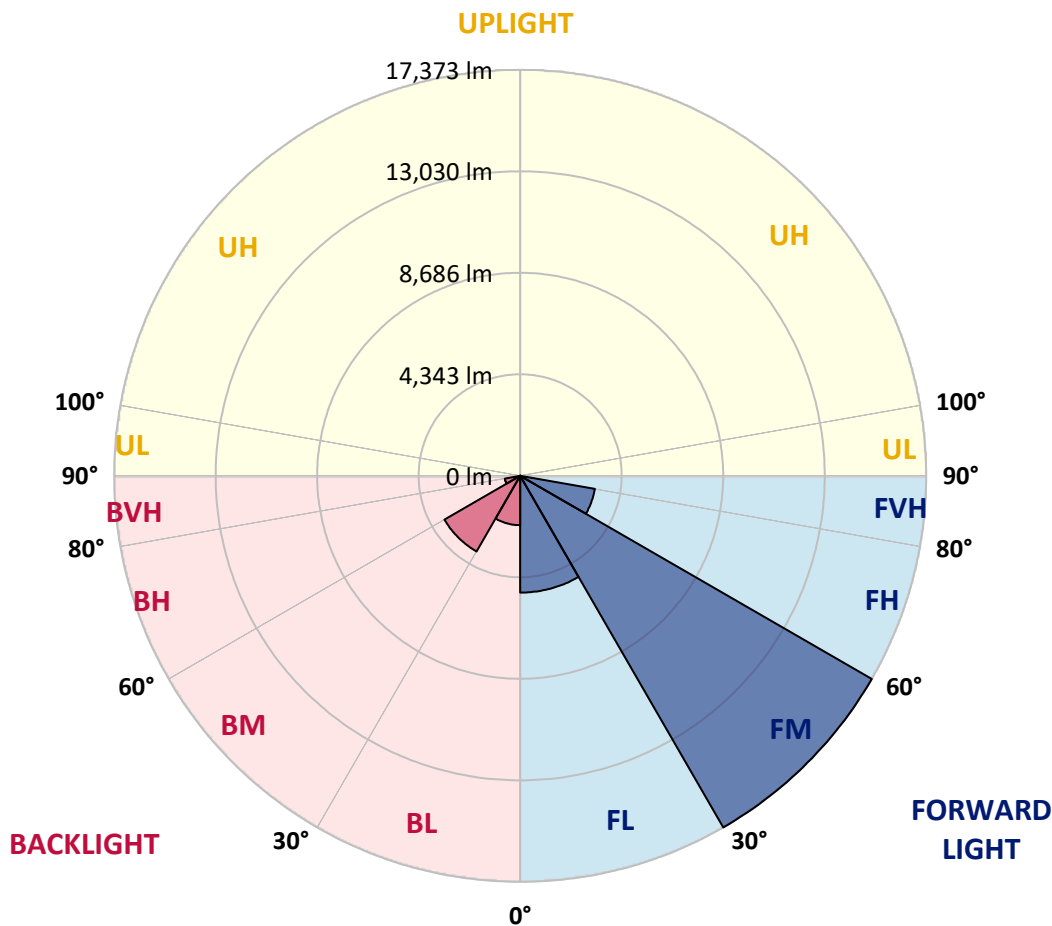
CATALOG NUMBER: GALN-SA8D-735-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4996.7	15.5			
FM (30°-60°)	17372.8	54.0			
FH (60°-80°)	3246.3	10.1			G2/5000
FVH (80°-90°)	25.3	0.1			G1/100
BL (0°-30°)	2111.7	6.6	B3/2500		
BM (30°-60°)	3740.3	11.6	B3/5000		
BH (60°-80°)	668.0	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°	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7
2.5°	17260.8	17311.4	17589.8	17937.8	18121.3	18538.9	18247.8	18323.8	18165.6	17608.8	17172.2
5°	16735.6	16729.3	17083.6	17944.1	18760.3	19589.2	19614.5	19171.6	18393.4	17539.2	16318.0
7.5°	15153.8	15400.6	15767.5	17140.6	18652.8	19272.8	19570.2	19051.4	17855.5	16634.4	15312.0
10°	13957.9	14084.5	14704.6	16362.3	17469.6	18298.4	18481.9	18184.6	17267.1	15742.2	14261.7
12.5°	13268.3	13331.5	14059.2	15451.2	16621.7	17235.5	17324.0	17463.2	16805.2	15375.3	13597.3
15°	13274.6	13325.2	14305.9	15470.2	15932.0	15767.5	16058.6	16052.3	16337.0	15305.7	14154.1
17.5°	14230.0	14287.0	15172.8	15748.6	15546.1	15160.1	15141.1	15432.2	16033.3	16172.5	14995.6
20°	15875.1	16008.0	16659.7	16628.0	15489.1	14710.9	14495.8	14717.2	16115.5	16906.4	16691.3
22.5°	18089.6	18273.1	18728.7	17855.5	15748.6	14407.2	14337.6	14767.8	16659.7	18545.2	18614.8
25°	20658.5	20968.6	21190.0	20070.1	16672.3	14932.3	14603.3	15343.6	17393.6	20323.2	21063.5
27.5°	22360.5	22683.2	22632.6	21031.8	17292.4	15071.5	14793.1	15482.8	18032.7	20747.1	22341.6
30°	23689.3	23885.4	24239.7	21550.7	17912.5	15463.8	14989.3	16071.2	18241.5	21481.1	23885.4
32.5°	25239.5	25372.3	25397.6	22468.1	18867.9	15957.4	15596.7	16805.2	19165.3	22183.4	25252.1
35°	26802.3	26998.4	26587.2	23600.7	19456.3	16874.8	16609.1	18077.0	19905.6	22911.0	26758.0
37.5°	28498.0	28599.2	27650.1	24068.9	20297.9	18368.0	18222.5	19450.0	21190.0	24227.1	28428.4
40°	29921.6	30016.5	28782.7	24644.7	21183.7	20456.0	20829.4	22069.5	22936.3	25081.3	29263.6
42.5°	30712.5	30934.0	29162.4	24328.3	22961.6	22822.4	24480.2	24916.8	24961.1	25321.7	30010.2
45°	30927.7	30826.4	28536.0	24587.7	24518.1	26713.7	28219.6	28795.4	26973.1	25764.6	30200.0
47.5°	29934.3	30067.2	27612.2	24360.0	26561.9	29662.2	31611.0	32680.3	28472.7	25378.7	29731.8
50°	29130.7	28959.9	27314.8	24195.5	27112.3	31054.2	34059.7	34300.1	29852.0	25853.2	29219.3
52.5°	29288.9	29396.5	27789.3	24632.0	27125.0	31136.5	34439.3	34274.8	29896.3	25745.6	29035.8
55°	29624.2	29149.7	27586.9	23670.3	25309.1	28839.7	30567.0	30313.9	27593.2	24600.4	28586.6
57.5°	25562.1	26296.1	25366.0	21133.1	20772.4	21727.8	21696.2	22474.4	20582.6	21171.0	26024.0
60°	20747.1	20873.6	21221.6	18077.0	14375.5	14046.5	13591.0	13097.4	13850.4	18102.3	23670.3
62.5°	18247.8	18096.0	19336.1	16444.6	10148.9	8497.5	8421.6	8725.3	10686.7	17267.1	22202.4
65°	13261.9	13451.8	14350.2	12762.1	7618.0	6485.4	6371.6	7270.0	8649.4	13837.7	16944.4
67.5°	8098.9	8465.9	8548.1	7871.1	5169.4	4106.4	3941.9	4758.1	6245.0	8953.1	9933.8
70°	3739.4	4182.3	4599.9	4296.2	2992.8	1689.4	1594.5	1999.4	3151.0	5150.4	5270.6
72.5°	1132.6	1138.9	1594.5	1664.1	968.1	379.6	335.3	442.9	1069.3	1702.0	1790.6
75°	82.3	88.6	215.1	246.8	183.5	94.9	101.2	120.2	227.8	379.6	284.7
77.5°	6.3	6.3	6.3	31.6	56.9	63.3	82.3	94.9	120.2	139.2	126.5
80°	6.3	0.0	6.3	25.3	44.3	63.3	75.9	88.6	94.9	107.6	94.9
82.5°	0.0	0.0	0.0	19.0	44.3	63.3	69.6	94.9	107.6	126.5	107.6
85°	0.0	0.0	0.0	19.0	44.3	69.6	63.3	31.6	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°	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7
2.5°	17248.1	17001.4	16438.2	16153.5	15482.8	15387.9	14729.9	14622.3	14400.9	14280.6	13989.6
5°	15780.2	15482.8	14565.4	13793.4	12895.0	12268.6	11787.7	11351.1	11098.0	10863.9	10971.5
7.5°	14584.3	13717.5	12698.8	11408.1	10370.4	9699.7	8965.7	8364.6	8010.3	7769.9	7826.8
10°	13331.5	12768.4	11351.1	9902.2	8649.4	8174.8	7599.0	7137.2	6637.3	6207.0	6004.6
12.5°	12939.3	12104.1	10326.1	8851.8	7902.8	7440.9	6782.8	6251.3	5612.3	5087.1	4903.6
15°	13008.9	12205.3	10047.7	8472.2	7352.3	6555.0	5770.5	5112.4	4410.1	4043.1	3853.3
17.5°	14141.4	12749.4	10231.2	8073.6	6586.7	5479.4	4511.3	3676.1	3151.0	2771.3	2689.1
20°	15533.4	13926.3	10623.5	7782.5	5960.3	4359.5	3296.5	2575.2	2138.6	2075.3	2056.4
22.5°	17570.8	15849.8	11465.0	7586.4	5194.7	3397.7	2258.8	1872.9	1752.7	1740.0	1746.3
25°	20418.1	18260.5	12382.5	7421.9	4618.9	2619.5	1847.6	1588.1	1550.2	1531.2	1562.8
27.5°	21651.9	19715.8	12869.7	7067.6	4093.7	2360.1	1822.3	1575.5	1467.9	1436.3	1455.3
30°	23176.8	20683.8	13635.3	6460.1	3321.8	1942.5	1702.0	1714.7	1664.1	1505.9	1455.3
32.5°	25201.5	21892.3	14021.2	6029.9	2967.5	1607.1	1246.5	1145.2	1278.1	1303.4	1347.7
35°	26498.6	23119.8	14217.4	5776.8	2784.0	1373.0	1056.7	961.7	930.1	936.4	961.7
37.5°	28909.3	24777.6	14464.1	5511.0	2644.8	1195.9	955.4	866.8	822.5	822.5	847.9
40°	30351.9	26093.6	14799.5	5365.5	2505.6	1088.3	866.8	790.9	752.9	752.9	765.6
42.5°	30712.5	26745.3	14685.6	5314.9	2347.4	1063.0	790.9	734.0	689.7	683.3	677.0
45°	31357.9	27738.7	14704.6	5258.0	2182.9	968.1	746.6	683.3	620.1	613.7	607.4
47.5°	32066.6	28453.7	14742.5	5036.5	2024.7	809.9	778.3	632.7	556.8	544.1	544.1
50°	31459.2	29023.2	15071.5	4815.0	1822.3	658.0	765.6	594.8	493.5	474.5	480.9
52.5°	31535.1	29693.8	15767.5	4505.0	1569.2	525.2	620.1	563.1	449.2	417.6	423.9
55°	30320.2	28985.2	15862.4	4176.0	1227.5	404.9	474.5	493.5	379.6	367.0	367.0
57.5°	26100.0	24543.5	13995.9	3385.1	809.9	335.3	341.7	430.3	329.0	316.4	322.7
60°	22335.2	19703.1	11262.5	2233.5	506.2	265.7	246.8	436.6	291.1	284.7	303.7
62.5°	20361.1	16191.5	8541.8	1385.7	348.0	202.5	170.8	354.3	253.1	253.1	278.4
65°	14710.9	10876.6	4966.9	727.6	246.8	158.2	126.5	202.5	208.8	215.1	227.8
67.5°	9111.3	5492.1	2094.3	354.3	164.5	107.6	82.3	126.5	139.2	139.2	151.9
70°	4498.7	2189.2	696.0	202.5	126.5	88.6	56.9	69.6	69.6	63.3	69.6
72.5°	1392.0	658.0	177.2	126.5	88.6	56.9	31.6	25.3	12.7	0.0	6.3
75°	158.2	126.5	113.9	88.6	56.9	25.3	6.3	0.0	0.0	0.0	0.0
77.5°	94.9	107.6	107.6	88.6	56.9	19.0	0.0	0.0	0.0	0.0	0.0
80°	75.9	82.3	88.6	82.3	50.6	25.3	0.0	0.0	0.0	0.0	0.0
82.5°	94.9	107.6	120.2	107.6	69.6	31.6	12.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	19.0	6.3	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°	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7
2.5°	13869.4	13730.2	13926.3	13635.3	13628.9	13635.3	13553.0	13477.1	13597.3	13920.0	13951.6
5°	10585.5	10882.9	10977.8	11287.8	11117.0	10863.9	10914.5	10743.7	11161.3	11344.8	11199.3
7.5°	7706.6	7687.6	8326.7	8364.6	8446.9	8453.2	8440.6	8105.2	7763.6	7839.5	8067.3
10°	5979.3	5656.6	5966.6	5935.0	6137.4	6080.5	6162.8	5802.1	5922.3	5922.3	6067.8
12.5°	4872.0	4530.3	4473.4	4391.1	4473.4	4505.0	4536.6	4467.0	4669.5	4764.4	4865.7
15°	3720.4	3530.6	3480.0	3321.8	3347.1	3435.7	3511.6	3543.3	3480.0	3625.5	3638.2
17.5°	2701.7	2695.4	2727.1	2720.7	2695.4	2676.4	2670.1	2587.9	2562.5	2575.2	2625.8
20°	2050.0	2100.7	2208.2	2315.8	2372.7	2303.1	2208.2	2069.0	2012.1	2024.7	2031.1
22.5°	1752.7	1828.6	1974.1	2094.3	2151.3	2024.7	1853.9	1733.7	1708.4	1702.0	1695.7
25°	1588.1	1676.7	1784.3	1822.3	1815.9	1740.0	1613.5	1562.8	1550.2	1537.5	1480.6
27.5°	1499.6	1531.2	1550.2	1594.5	1613.5	1562.8	1531.2	1455.3	1442.6	1442.6	1404.7
30°	1448.9	1430.0	1455.3	1423.6	1448.9	1411.0	1417.3	1417.3	1385.7	1398.3	1398.3
32.5°	1347.7	1354.0	1354.0	1290.8	1309.7	1265.5	1309.7	1347.7	1354.0	1360.4	1411.0
35°	987.1	1100.9	1157.9	1157.9	1176.9	1145.2	1138.9	1094.6	1037.7	980.7	955.4
37.5°	866.8	911.1	987.1	1031.3	1063.0	1037.7	980.7	911.1	879.5	854.2	828.9
40°	771.9	809.9	860.5	911.1	974.4	942.8	854.2	822.5	784.6	784.6	759.3
42.5°	696.0	715.0	746.6	822.5	892.1	828.9	765.6	740.3	721.3	715.0	708.7
45°	626.4	632.7	664.4	727.6	809.9	746.6	683.3	651.7	658.0	664.4	658.0
47.5°	563.1	575.8	594.8	670.7	721.3	689.7	620.1	601.1	601.1	601.1	607.4
50°	487.2	518.8	556.8	620.1	658.0	639.1	582.1	556.8	544.1	544.1	550.5
52.5°	436.6	461.9	512.5	588.4	639.1	607.4	550.5	512.5	487.2	480.9	493.5
55°	379.6	423.9	506.2	563.1	632.7	601.1	537.8	493.5	449.2	442.9	442.9
57.5°	341.7	411.3	487.2	556.8	613.7	588.4	537.8	480.9	423.9	417.6	417.6
60°	322.7	398.6	474.5	537.8	613.7	575.8	531.5	468.2	404.9	404.9	398.6
62.5°	303.7	373.3	449.2	512.5	588.4	556.8	512.5	449.2	386.0	386.0	373.3
65°	253.1	322.7	373.3	430.3	512.5	480.9	436.6	392.3	341.7	329.0	335.3
67.5°	177.2	221.5	272.1	329.0	379.6	367.0	348.0	316.4	272.1	265.7	259.4
70°	88.6	120.2	164.5	221.5	265.7	253.1	240.4	215.1	189.8	183.5	183.5
72.5°	12.7	38.0	69.6	101.2	139.2	145.5	139.2	132.9	126.5	120.2	126.5
75°	0.0	0.0	0.0	25.3	56.9	69.6	82.3	94.9	94.9	82.3	101.2
77.5°	0.0	0.0	0.0	0.0	6.3	31.6	63.3	82.3	101.2	88.6	120.2
80°	0.0	0.0	0.0	0.0	6.3	38.0	63.3	88.6	101.2	88.6	126.5
82.5°	0.0	0.0	0.0	0.0	6.3	44.3	63.3	82.3	94.9	88.6	113.9
85°	0.0	0.0	0.0	0.0	19.0	38.0	25.3	12.7	6.3	6.3	19.0
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: P533357

CATALOG NUMBER: GALN-SA8D-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7	16311.7
2.5°	14128.8	14578.0	15058.9	15242.4	15811.8	16242.1	16533.1	17159.5	17254.4	17260.8
5°	11351.1	11578.9	12401.4	12787.4	13635.3	14293.3	14995.6	16008.0	16685.0	16735.6
7.5°	8067.3	8700.0	9048.0	10054.0	11098.0	12129.4	13173.4	14350.2	15134.8	15153.8
10°	6491.8	6903.0	7523.1	8276.1	9155.6	10205.9	11597.9	12964.6	13761.8	13957.9
12.5°	5226.3	5947.6	6656.3	7434.5	8105.2	8896.1	10395.7	12217.9	12876.0	13268.3
15°	4024.1	4682.2	5517.4	6428.5	7187.8	8244.4	9952.8	12034.5	13141.7	13274.6
17.5°	2967.5	3555.9	4327.8	5188.4	6327.3	7826.8	10028.7	12964.6	14008.6	14230.0
20°	2132.3	2474.0	3081.4	4081.1	5530.0	7339.6	10104.6	13907.3	15495.5	15875.1
22.5°	1689.4	1828.6	2227.2	3113.0	4637.9	6827.1	10642.5	15710.6	17539.2	18089.6
25°	1467.9	1543.9	1733.7	2455.0	4074.8	6776.5	11503.0	17874.5	20259.9	20658.5
27.5°	1417.3	1430.0	1594.5	2252.5	3771.0	6441.2	11832.0	19412.0	21955.6	22360.5
30°	1493.2	1695.7	1708.4	1904.5	3207.9	5776.8	12002.8	20899.0	23391.9	23689.3
32.5°	1290.8	1227.5	1271.8	1474.3	2822.0	5390.8	12325.5	22196.0	25030.7	25239.5
35°	898.5	942.8	1044.0	1278.1	2467.6	4985.9	12407.8	23626.0	26587.2	26802.3
37.5°	828.9	854.2	936.4	1088.3	2170.3	4758.1	12293.9	24670.0	28200.6	28498.0
40°	771.9	803.6	847.9	987.1	1948.8	4505.0	12135.7	25612.8	29187.7	29921.6
42.5°	727.6	752.9	790.9	942.8	1759.0	4251.9	11914.2	26941.5	30073.5	30712.5
45°	677.0	715.0	759.3	917.5	1651.4	4081.1	11749.7	26859.2	30586.0	30927.7
47.5°	626.4	689.7	740.3	854.2	1619.8	3998.8	11819.3	26549.2	30168.4	29934.3
50°	575.8	658.0	746.6	708.7	1543.9	3834.3	11901.6	26973.1	29175.0	29130.7
52.5°	531.5	626.4	696.0	582.1	1373.0	3676.1	12698.8	27529.9	29877.3	29288.9
55°	468.2	563.1	556.8	468.2	1113.6	3555.9	13325.2	27542.6	29402.8	29624.2
57.5°	423.9	499.9	436.6	392.3	822.5	2973.8	12306.5	23094.5	25169.9	25562.1
60°	392.3	487.2	329.0	310.0	537.8	2144.9	10743.7	17887.2	20006.8	20747.1
62.5°	360.7	461.9	259.4	253.1	373.3	1524.9	8832.9	14970.3	17241.8	18247.8
65°	316.4	329.0	208.8	196.1	265.7	822.5	5378.2	10307.1	12888.6	13261.9
67.5°	259.4	253.1	170.8	158.2	177.2	398.6	2372.7	5163.0	7472.5	8098.9
70°	208.8	208.8	145.5	126.5	126.5	183.5	620.1	2056.4	3378.8	3739.4
72.5°	151.9	158.2	113.9	101.2	94.9	88.6	101.2	411.3	885.8	1132.6
75°	132.9	139.2	113.9	88.6	69.6	56.9	44.3	38.0	50.6	82.3
77.5°	145.5	145.5	120.2	82.3	63.3	44.3	25.3	12.7	12.7	6.3
80°	183.5	189.8	158.2	107.6	75.9	50.6	31.6	12.7	6.3	6.3
82.5°	196.1	215.1	177.2	132.9	94.9	56.9	31.6	6.3	0.0	0.0
85°	50.6	82.3	139.2	120.2	94.9	56.9	31.6	6.3	0.0	0.0
87.5°	0.0	6.3	19.0	19.0	25.3	25.3	19.0	6.3	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)