

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: P647609

Luminaire Tested: **GALN-SA8D-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647609
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-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 27040.1 lumens
Efficiency: N/A
Efficacy: 54.8 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

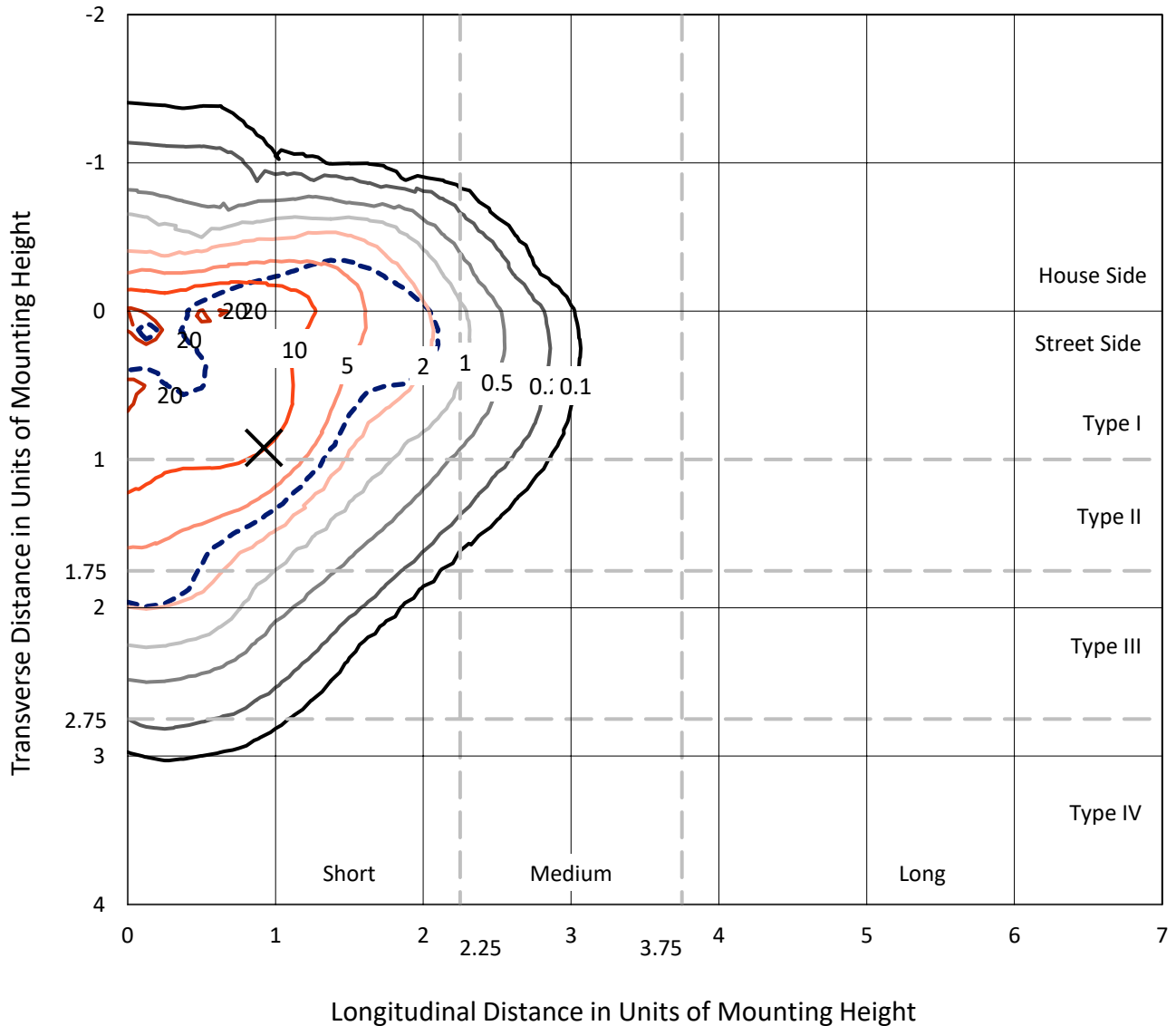
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

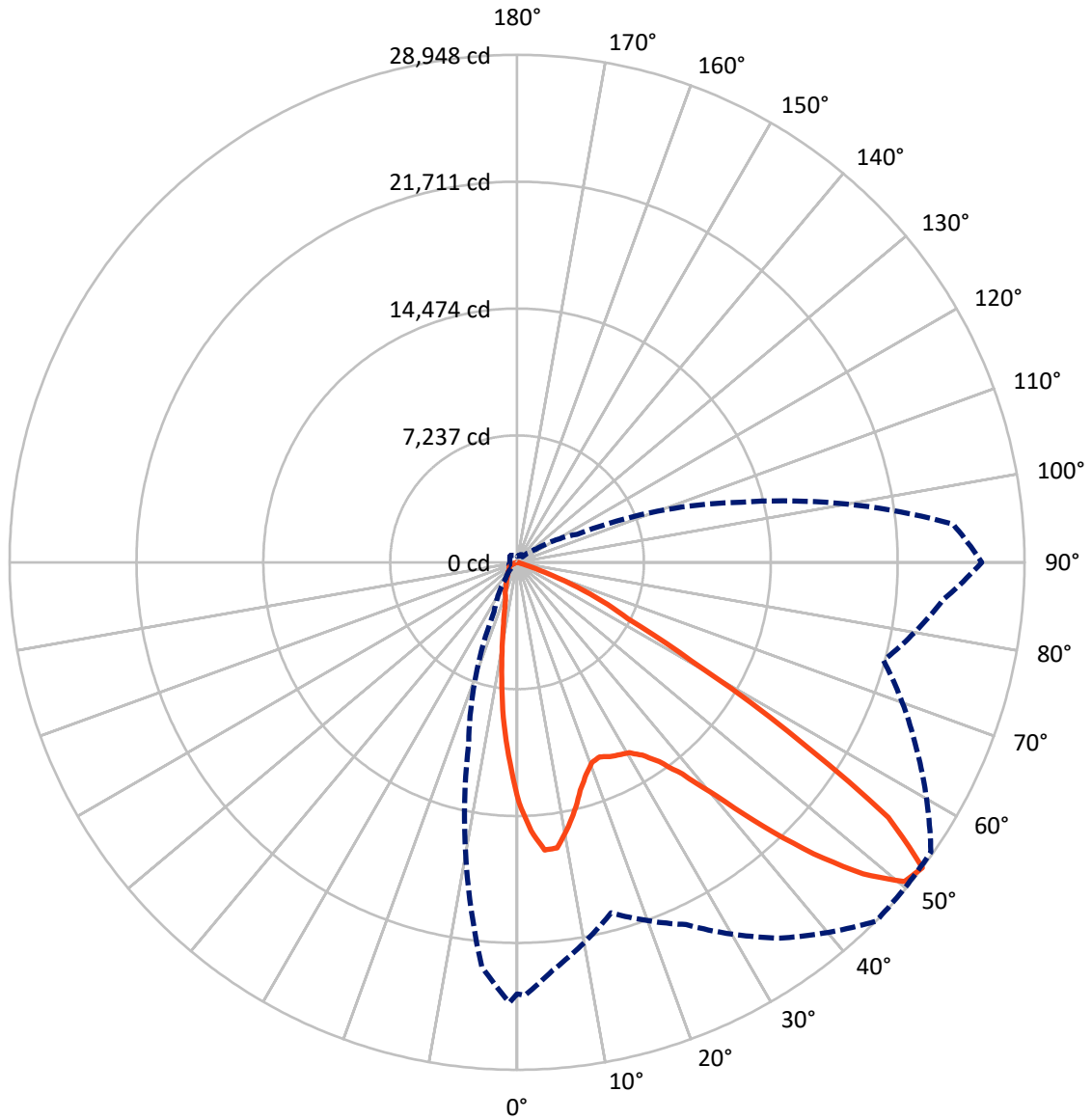
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 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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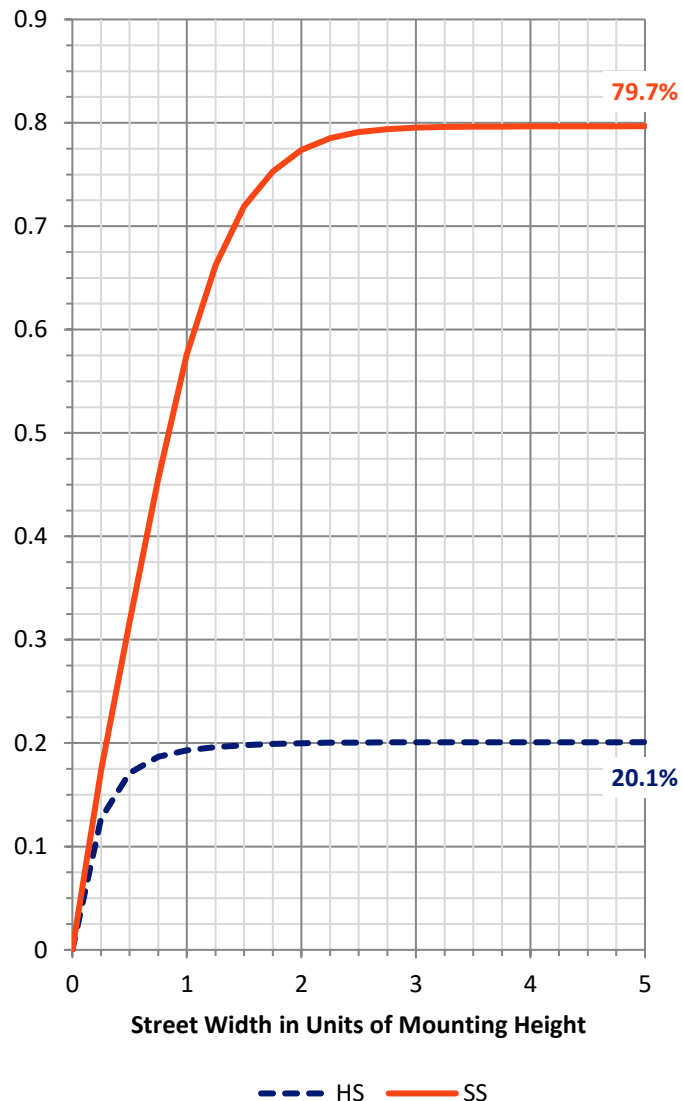
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5487.8	0.0	5487.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	21552.3	0.0	21552.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	27040.1	0.0	27040.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.9	3.7
10°-20°	1972.8	7.3
20°-30°	3002.2	11.1
30°-40°	4487.1	16.6
40°-50°	6390.1	23.6
50°-60°	6869.2	25.4
60°-70°	3043.9	11.3
70°-80°	246.3	0.9
80°-90°	28.7	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°	27040.1	100.0
0°-180°	27040.1	100.0

Coefficient of Utilization



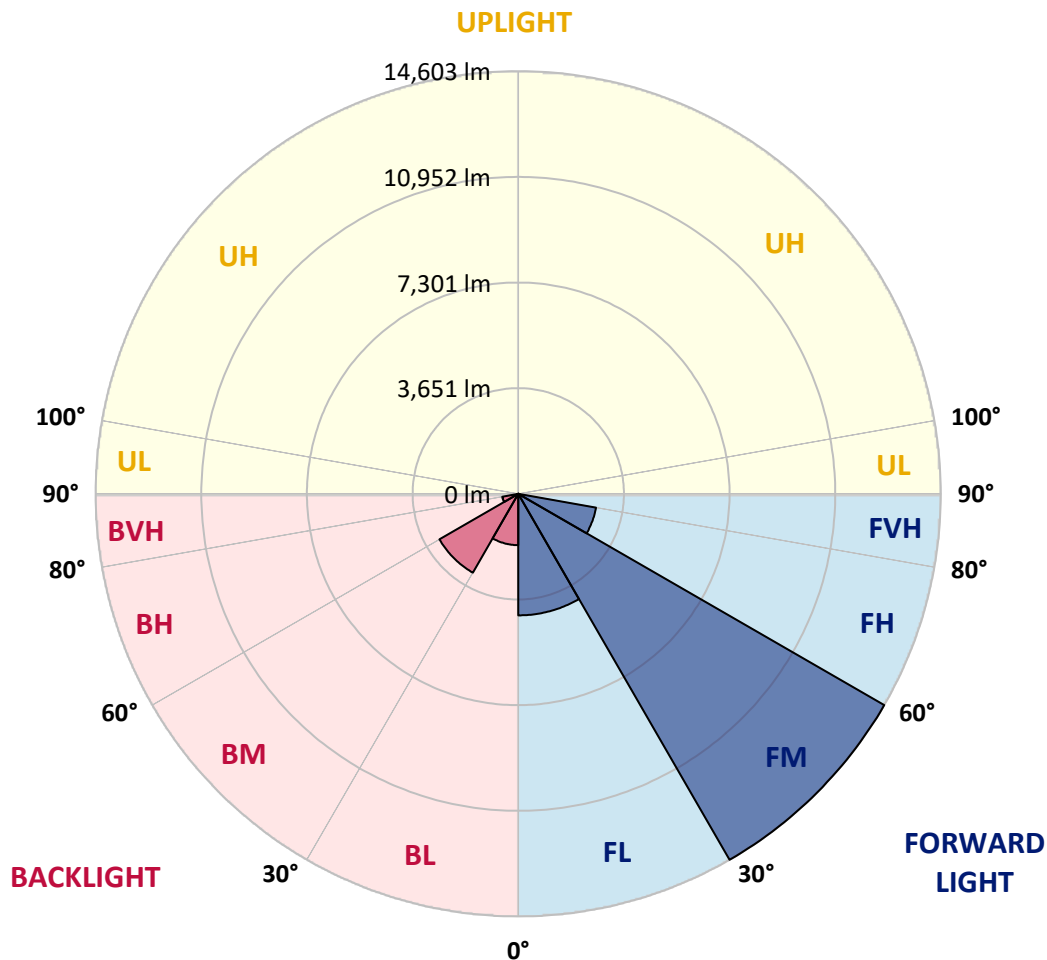
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4199.9	15.5			
FM (30°-60°)	14602.5	54.0			
FH (60°-80°)	2728.7	10.1			G2/5000
FVH (80°-90°)	21.3	0.1			G1/100
BL (0°-30°)	1775.0	6.6	B3/2500		
BM (30°-60°)	3143.9	11.6	B3/5000		
BH (60°-80°)	561.5	2.1	B2/1000		G2/1000
BVH (80°-90°)	7.4	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°	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6
2.5°	14508.4	14550.9	14784.9	15077.4	15231.6	15582.6	15338.0	15401.8	15268.9	14800.8	14433.9
5°	14066.9	14061.6	14359.4	15082.7	15768.8	16465.5	16486.8	16114.5	15460.3	14742.3	13715.9
7.5°	12737.4	12944.8	13253.2	14407.3	15678.4	16199.6	16449.5	16013.4	15008.2	13981.8	12870.3
10°	11732.2	11838.6	12359.7	13753.2	14683.8	15380.5	15534.8	15284.8	14513.7	13231.9	11987.5
12.5°	11152.5	11205.7	11817.3	12987.3	13971.2	14487.1	14561.5	14678.5	14125.4	12923.5	11429.1
15°	11157.8	11200.3	12024.7	13003.3	13391.5	13253.2	13497.9	13492.6	13731.9	12865.0	11897.1
17.5°	11960.9	12008.7	12753.3	13237.2	13067.1	12742.7	12726.7	12971.3	13476.6	13593.6	12604.4
20°	13343.7	13455.3	14003.1	13976.6	13019.3	12365.1	12184.3	12370.4	13545.7	14210.5	14029.7
22.5°	15205.1	15359.2	15742.2	15008.2	13237.2	12109.8	12051.3	12412.9	14003.1	15588.0	15646.5
25°	17364.3	17624.9	17811.0	16869.7	14013.7	12551.2	12274.6	12896.9	14620.0	17082.4	17704.6
27.5°	18794.9	19066.1	19023.6	17678.0	14534.9	12668.2	12434.2	13013.9	15157.2	17438.7	18778.9
30°	19911.8	20076.6	20374.4	18114.2	15056.2	12998.0	12599.1	13508.5	15332.7	18055.7	20076.6
32.5°	21214.8	21326.4	21347.7	18885.3	15859.2	13412.8	13109.6	14125.4	16109.1	18646.0	21225.4
35°	22528.3	22693.2	22347.5	19837.3	16353.8	14184.0	13960.6	15194.4	16731.4	19257.6	22491.1
37.5°	23953.7	24038.7	23241.0	20230.8	17061.1	15439.0	15316.7	16348.5	17811.0	20363.8	23895.1
40°	25150.3	25230.1	24193.0	20714.8	17805.7	17194.1	17507.9	18550.3	19278.9	21081.8	24597.2
42.5°	25815.0	26001.2	24512.0	20448.9	19300.2	19183.1	20576.5	20943.5	20980.7	21283.9	25224.7
45°	25995.9	25910.8	23985.6	20667.0	20608.5	22453.9	23719.7	24203.6	22671.9	21656.1	25384.3
47.5°	25160.9	25272.6	23209.1	20475.4	22326.2	24932.2	26570.2	27469.0	23932.4	21331.7	24990.7
50°	24485.5	24341.9	22959.1	20337.2	22789.0	26102.2	28628.4	28830.5	25091.8	21730.6	24560.0
52.5°	24618.5	24708.9	23358.0	20704.2	22799.6	26171.4	28947.6	28809.3	25129.0	21640.2	24405.7
55°	24900.3	24501.5	23187.8	19895.8	21273.2	24240.8	25692.7	25480.0	23193.2	20677.6	24028.2
57.5°	21486.0	22102.9	21321.1	17763.1	17460.0	18263.1	18236.5	18890.7	17300.5	17795.1	21874.2
60°	17438.7	17545.1	17837.6	15194.4	12083.2	11806.6	11423.7	11008.9	11641.8	15215.6	19895.8
62.5°	15338.0	15210.3	16252.7	13822.3	8530.6	7142.5	7078.6	7334.0	8982.7	14513.7	18661.9
65°	11147.2	11306.8	12062.0	10727.0	6403.2	5451.2	5355.6	6110.8	7270.2	11631.2	14242.5
67.5°	6807.4	7115.9	7185.0	6616.0	4345.0	3451.6	3313.3	3999.3	5249.2	7525.4	8349.8
70°	3143.1	3515.4	3866.4	3611.1	2515.5	1420.0	1340.2	1680.6	2648.5	4329.1	4430.1
72.5°	952.0	957.3	1340.2	1398.8	813.7	319.1	281.9	372.3	898.8	1430.6	1505.1
75°	69.1	74.5	180.8	207.4	154.3	79.8	85.1	101.1	191.4	319.1	239.3
77.5°	5.3	5.3	5.3	26.6	47.8	53.2	69.1	79.8	101.1	117.0	106.3
80°	5.3	0.0	5.3	21.3	37.2	53.2	63.8	74.5	79.8	90.4	79.8
82.5°	0.0	0.0	0.0	16.0	37.2	53.2	58.5	79.8	90.4	106.3	90.4
85°	0.0	0.0	0.0	16.0	37.2	58.5	53.2	26.6	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°	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6
2.5°	14497.7	14290.3	13817.0	13577.6	13013.9	12934.1	12381.0	12290.6	12104.5	12003.4	11758.8
5°	13263.9	13013.9	12242.8	11593.9	10838.7	10312.2	9908.0	9541.0	9328.3	9131.5	9221.9
7.5°	12258.7	11530.1	10673.9	9588.9	8716.7	8153.0	7536.1	7030.8	6733.0	6530.8	6578.8
10°	11205.7	10732.3	9541.0	8323.1	7270.2	6871.2	6387.3	5999.0	5578.9	5217.3	5047.1
12.5°	10875.9	10173.9	8679.5	7440.3	6642.6	6254.4	5701.3	5254.5	4717.3	4275.9	4121.7
15°	10934.4	10259.0	8445.4	7121.2	6179.9	5509.7	4850.3	4297.2	3706.9	3398.4	3238.9
17.5°	11886.4	10716.4	8599.7	6786.2	5536.4	4605.7	3792.0	3090.0	2648.5	2329.4	2260.3
20°	13056.4	11705.6	8929.4	6541.5	5009.9	3664.3	2770.8	2164.5	1797.6	1744.4	1728.5
22.5°	14768.9	13322.4	9636.8	6376.7	4366.3	2855.9	1898.6	1574.2	1473.1	1462.6	1467.9
25°	17162.2	15348.6	10407.9	6238.4	3882.3	2201.8	1552.9	1334.9	1303.0	1287.0	1313.6
27.5°	18199.3	16571.9	10817.5	5940.5	3441.0	1983.7	1531.7	1324.3	1233.9	1207.2	1223.2
30°	19481.0	17385.6	11460.9	5430.0	2792.1	1632.7	1430.6	1441.3	1398.8	1265.7	1223.2
32.5°	21182.8	18401.4	11785.4	5068.4	2494.3	1350.8	1047.7	962.6	1074.3	1095.6	1132.8
35°	22273.1	19433.1	11950.2	4855.6	2340.1	1154.1	888.2	808.4	781.8	787.1	808.4
37.5°	24299.4	20826.5	12157.6	4632.2	2223.0	1005.1	803.0	728.6	691.4	691.4	712.7
40°	25511.9	21932.7	12439.5	4509.9	2106.0	914.8	728.6	664.8	632.9	632.9	643.5
42.5°	25815.0	22480.5	12343.8	4467.4	1973.1	893.5	664.8	616.9	579.7	574.4	569.1
45°	26357.5	23315.5	12359.7	4419.5	1834.8	813.7	627.6	574.4	521.2	515.8	510.6
47.5°	26953.2	23916.4	12391.7	4233.4	1701.9	680.7	654.1	531.8	468.0	457.4	457.4
50°	26442.6	24395.1	12668.2	4047.2	1531.7	553.1	643.5	499.9	414.8	398.9	404.2
52.5°	26506.4	24958.8	13253.2	3786.7	1319.0	441.5	521.2	473.3	377.6	351.0	356.3
55°	25485.3	24363.2	13333.0	3510.1	1031.8	340.4	398.9	414.8	319.1	308.4	308.4
57.5°	21938.0	20629.7	11764.1	2845.3	680.7	281.9	287.2	361.7	276.6	265.9	271.2
60°	18773.6	16561.2	9466.6	1877.4	425.5	223.4	207.4	367.0	244.6	239.3	255.3
62.5°	17114.3	13609.6	7179.7	1164.7	292.5	170.2	143.6	297.9	212.7	212.7	234.0
65°	12365.1	9142.2	4174.9	611.6	207.4	133.0	106.3	170.2	175.5	180.8	191.4
67.5°	7658.4	4616.3	1760.3	297.9	138.3	90.4	69.1	106.3	117.0	117.0	127.6
70°	3781.3	1840.1	585.0	170.2	106.3	74.5	47.8	58.5	58.5	53.2	58.5
72.5°	1170.0	553.1	148.9	106.3	74.5	47.8	26.6	21.3	10.6	0.0	5.3
75°	133.0	106.3	95.8	74.5	47.8	21.3	5.3	0.0	0.0	0.0	0.0
77.5°	79.8	90.4	90.4	74.5	47.8	16.0	0.0	0.0	0.0	0.0	0.0
80°	63.8	69.1	74.5	69.1	42.5	21.3	0.0	0.0	0.0	0.0	0.0
82.5°	79.8	90.4	101.1	90.4	58.5	26.6	10.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	16.0	5.3	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°	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6
2.5°	11657.7	11540.7	11705.6	11460.9	11455.6	11460.9	11391.8	11328.0	11429.1	11700.3	11726.8
5°	8897.5	9147.5	9227.3	9487.8	9344.2	9131.5	9174.1	9030.5	9381.5	9535.8	9413.4
7.5°	6477.7	6461.7	6998.9	7030.8	7099.9	7105.3	7094.6	6812.7	6525.6	6589.4	6780.9
10°	5025.8	4754.5	5015.2	4988.6	5158.8	5110.9	5180.0	4876.9	4977.9	4977.9	5100.2
12.5°	4095.1	3807.9	3760.0	3690.9	3760.0	3786.7	3813.2	3754.7	3924.9	4004.7	4089.8
15°	3127.1	2967.6	2925.1	2792.1	2813.4	2887.9	2951.7	2978.2	2925.1	3047.4	3058.0
17.5°	2270.9	2265.6	2292.2	2286.9	2265.6	2249.6	2244.3	2175.2	2153.9	2164.5	2207.1
20°	1723.1	1765.7	1856.1	1946.5	1994.4	1935.9	1856.1	1739.1	1691.2	1701.9	1707.2
22.5°	1473.1	1537.0	1659.3	1760.3	1808.3	1701.9	1558.2	1457.2	1435.9	1430.6	1425.3
25°	1334.9	1409.3	1499.8	1531.7	1526.4	1462.6	1356.2	1313.6	1303.0	1292.3	1244.5
27.5°	1260.5	1287.0	1303.0	1340.2	1356.2	1313.6	1287.0	1223.2	1212.6	1212.6	1180.7
30°	1217.9	1201.9	1223.2	1196.6	1217.9	1186.0	1191.3	1191.3	1164.7	1175.4	1175.4
32.5°	1132.8	1138.1	1138.1	1084.9	1100.9	1063.6	1100.9	1132.8	1138.1	1143.4	1186.0
35°	829.7	925.3	973.3	973.3	989.2	962.6	957.3	920.1	872.2	824.3	803.0
37.5°	728.6	765.9	829.7	866.9	893.5	872.2	824.3	765.9	739.2	717.9	696.7
40°	648.9	680.7	723.3	765.9	819.0	792.4	717.9	691.4	659.4	659.4	638.2
42.5°	585.0	601.0	627.6	691.4	749.9	696.7	643.5	622.3	606.3	601.0	595.6
45°	526.5	531.8	558.4	611.6	680.7	627.6	574.4	547.8	553.1	558.4	553.1
47.5°	473.3	484.0	499.9	563.8	606.3	579.7	521.2	505.3	505.3	505.3	510.6
50°	409.5	436.1	468.0	521.2	553.1	537.1	489.3	468.0	457.4	457.4	462.7
52.5°	367.0	388.2	430.8	494.6	537.1	510.6	462.7	430.8	409.5	404.2	414.8
55°	319.1	356.3	425.5	473.3	531.8	505.3	452.0	414.8	377.6	372.3	372.3
57.5°	287.2	345.7	409.5	468.0	515.8	494.6	452.0	404.2	356.3	351.0	351.0
60°	271.2	335.0	398.9	452.0	515.8	484.0	446.7	393.5	340.4	340.4	335.0
62.5°	255.3	313.7	377.6	430.8	494.6	468.0	430.8	377.6	324.4	324.4	313.7
65°	212.7	271.2	313.7	361.7	430.8	404.2	367.0	329.7	287.2	276.6	281.9
67.5°	148.9	186.1	228.7	276.6	319.1	308.4	292.5	265.9	228.7	223.4	218.1
70°	74.5	101.1	138.3	186.1	223.4	212.7	202.1	180.8	159.6	154.3	154.3
72.5°	10.6	31.9	58.5	85.1	117.0	122.3	117.0	111.7	106.3	101.1	106.3
75°	0.0	0.0	0.0	21.3	47.8	58.5	69.1	79.8	79.8	69.1	85.1
77.5°	0.0	0.0	0.0	0.0	5.3	26.6	53.2	69.1	85.1	74.5	101.1
80°	0.0	0.0	0.0	0.0	5.3	31.9	53.2	74.5	85.1	74.5	106.3
82.5°	0.0	0.0	0.0	0.0	5.3	37.2	53.2	69.1	79.8	74.5	95.8
85°	0.0	0.0	0.0	0.0	16.0	31.9	21.3	10.6	5.3	5.3	16.0
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: P647609

CATALOG NUMBER: GALN-SA8D-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6	13710.6
2.5°	11875.8	12253.4	12657.6	12811.8	13290.5	13652.1	13896.8	14423.3	14503.0	14508.4
5°	9541.0	9732.5	10423.9	10748.3	11460.9	12014.0	12604.4	13455.3	14024.4	14066.9
7.5°	6780.9	7312.7	7605.2	8450.8	9328.3	10195.2	11072.7	12062.0	12721.4	12737.4
10°	5456.6	5802.3	6323.4	6956.3	7695.6	8578.5	9748.4	10897.2	11567.3	11732.2
12.5°	4392.9	4999.2	5594.8	6249.0	6812.7	7477.6	8738.0	10269.7	10822.8	11152.5
15°	3382.5	3935.5	4637.6	5403.4	6041.6	6929.8	8365.7	10115.4	11046.1	11157.8
17.5°	2494.3	2988.9	3637.7	4361.0	5318.3	6578.8	8429.5	10897.2	11774.8	11960.9
20°	1792.3	2079.5	2590.0	3430.3	4648.2	6169.3	8493.4	11689.6	13024.5	13343.7
22.5°	1420.0	1537.0	1872.1	2616.6	3898.3	5738.5	8945.4	13205.4	14742.3	15205.1
25°	1233.9	1297.7	1457.2	2063.5	3425.0	5695.9	9668.7	15024.2	17029.2	17364.3
27.5°	1191.3	1201.9	1340.2	1893.3	3169.7	5414.1	9945.3	16316.5	18454.5	18794.9
30°	1255.1	1425.3	1435.9	1600.8	2696.4	4855.6	10088.8	17566.4	19661.8	19911.8
32.5°	1084.9	1031.8	1069.0	1239.2	2371.9	4531.2	10360.0	18656.6	21039.2	21214.8
35°	755.2	792.4	877.5	1074.3	2074.2	4190.9	10429.2	19858.5	22347.5	22528.3
37.5°	696.7	717.9	787.1	914.8	1824.2	3999.3	10333.5	20736.1	23703.7	23953.7
40°	648.9	675.4	712.7	829.7	1638.0	3786.7	10200.5	21528.5	24533.3	25150.3
42.5°	611.6	632.9	664.8	792.4	1478.5	3573.9	10014.4	22645.4	25277.9	25815.0
45°	569.1	601.0	638.2	771.2	1388.1	3430.3	9876.1	22576.2	25708.7	25995.9
47.5°	526.5	579.7	622.3	717.9	1361.5	3361.2	9934.6	22315.7	25357.7	25160.9
50°	484.0	553.1	627.6	595.6	1297.7	3222.9	10003.8	22671.9	24522.7	24485.5
52.5°	446.7	526.5	585.0	489.3	1154.1	3090.0	10673.9	23139.9	25113.1	24618.5
55°	393.5	473.3	468.0	393.5	936.0	2988.9	11200.3	23150.6	24714.1	24900.3
57.5°	356.3	420.2	367.0	329.7	691.4	2499.6	10344.1	19411.8	21156.3	21486.0
60°	329.7	409.5	276.6	260.6	452.0	1802.9	9030.5	15034.9	16816.5	17438.7
62.5°	303.2	388.2	218.1	212.7	313.7	1281.7	7424.3	12583.1	14492.4	15338.0
65°	265.9	276.6	175.5	164.9	223.4	691.4	4520.6	8663.5	10833.4	11147.2
67.5°	218.1	212.7	143.6	133.0	148.9	335.0	1994.4	4339.8	6280.9	6807.4
70°	175.5	175.5	122.3	106.3	106.3	154.3	521.2	1728.5	2839.9	3143.1
72.5°	127.6	133.0	95.8	85.1	79.8	74.5	85.1	345.7	744.6	952.0
75°	111.7	117.0	95.8	74.5	58.5	47.8	37.2	31.9	42.5	69.1
77.5°	122.3	122.3	101.1	69.1	53.2	37.2	21.3	10.6	10.6	5.3
80°	154.3	159.6	133.0	90.4	63.8	42.5	26.6	10.6	5.3	5.3
82.5°	164.9	180.8	148.9	111.7	79.8	47.8	26.6	5.3	0.0	0.0
85°	42.5	69.1	117.0	101.1	79.8	47.8	26.6	5.3	0.0	0.0
87.5°	0.0	5.3	16.0	16.0	21.3	21.3	16.0	5.3	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

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