

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: P648049

Luminaire Tested: **GALN-SA7A-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648049
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-SA7A-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA 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: 13787.8 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

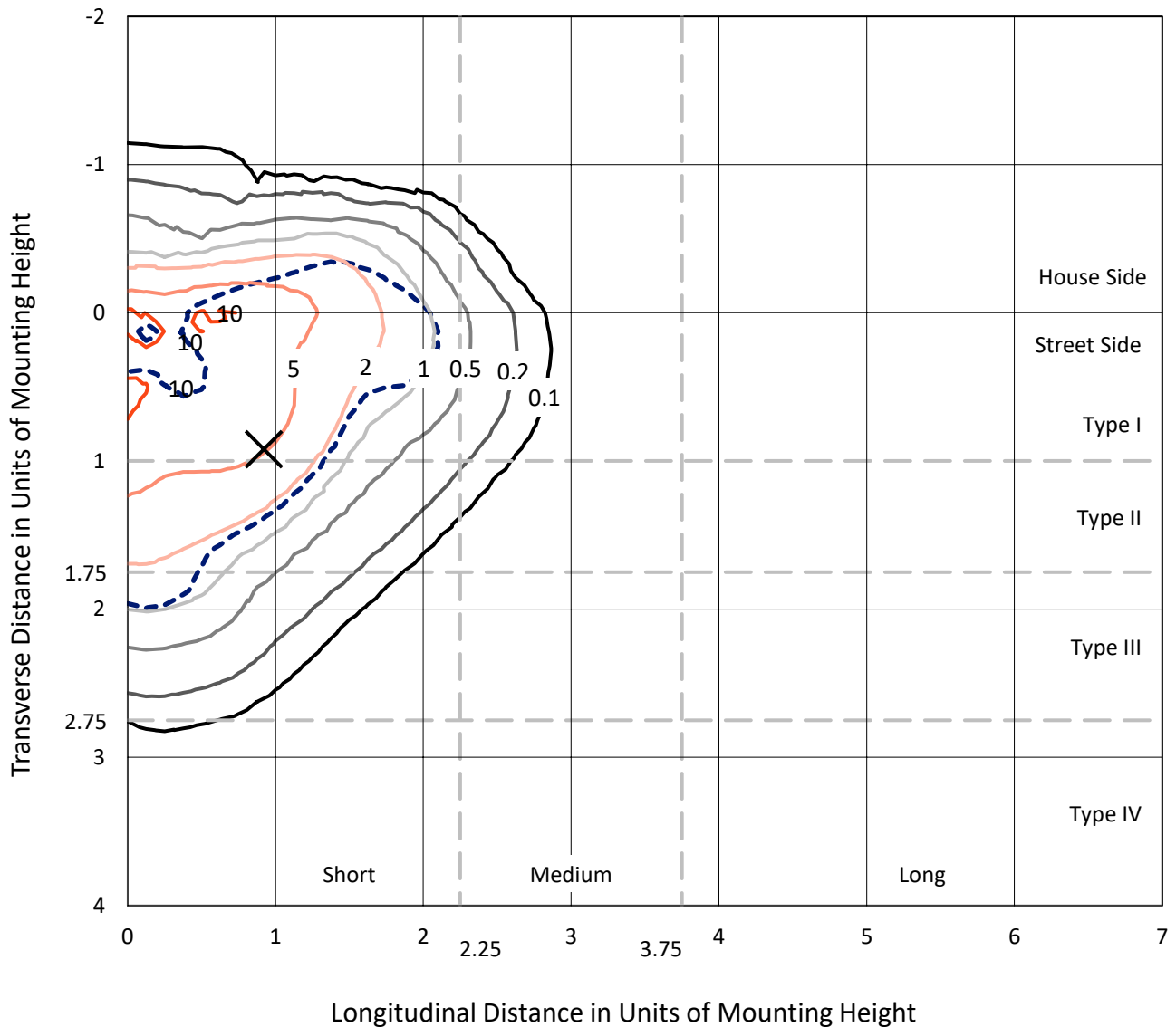
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

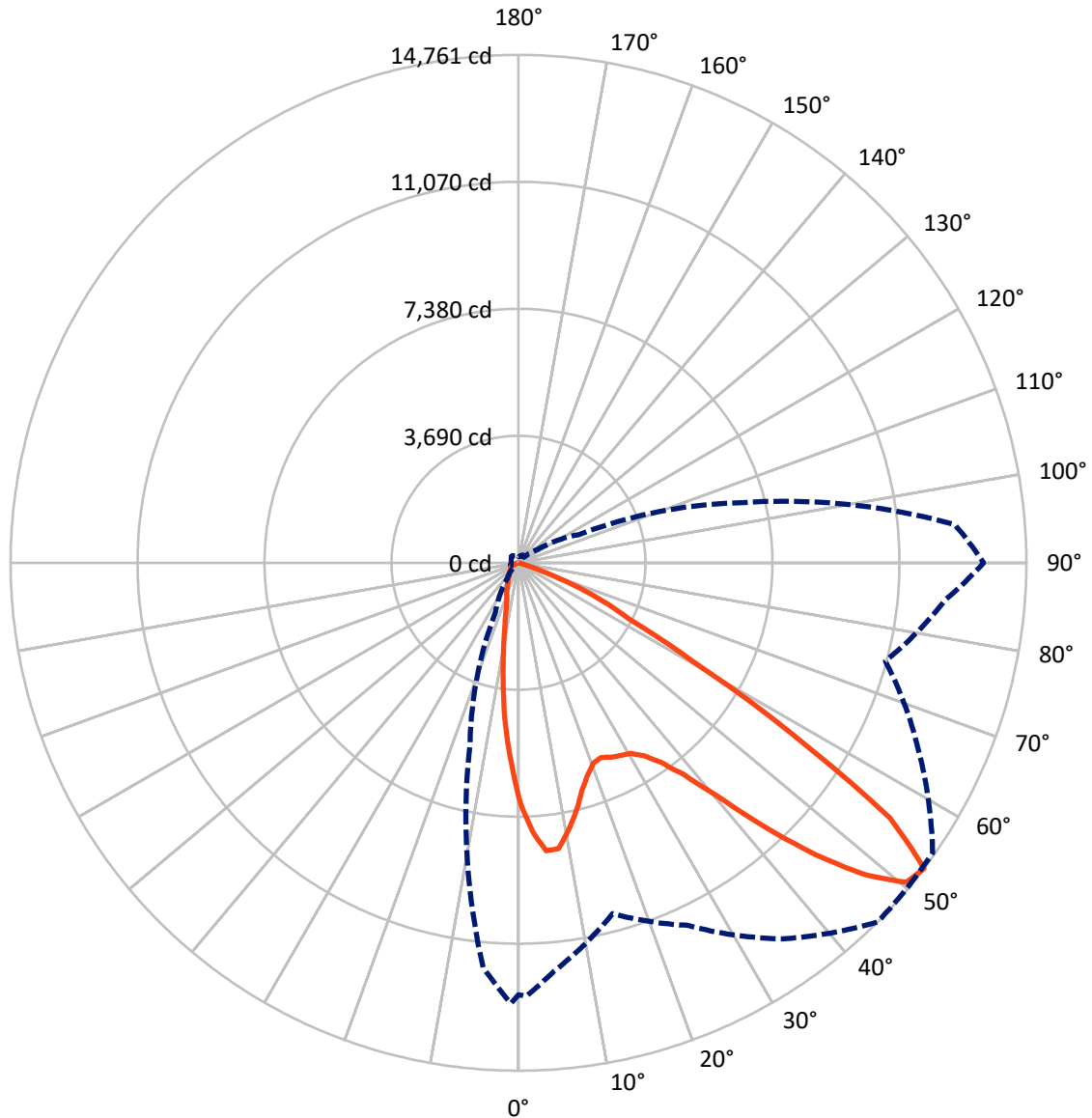
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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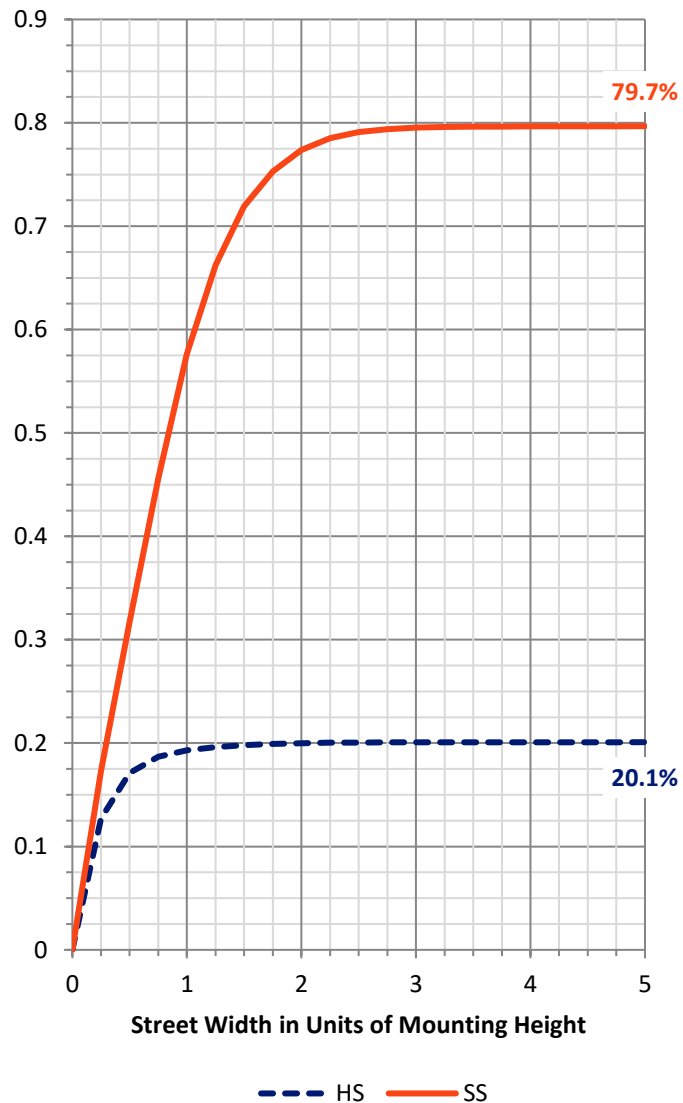
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2798.2	0.0	2798.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	10989.6	0.0	10989.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	13787.8	0.0	13787.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.9	3.7
10°-20°	1005.9	7.3
20°-30°	1530.8	11.1
30°-40°	2288.0	16.6
40°-50°	3258.3	23.6
50°-60°	3502.6	25.4
60°-70°	1552.1	11.3
70°-80°	125.6	0.9
80°-90°	14.6	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°	13787.8	100.0
0°-180°	13787.8	100.0

Coefficient of Utilization



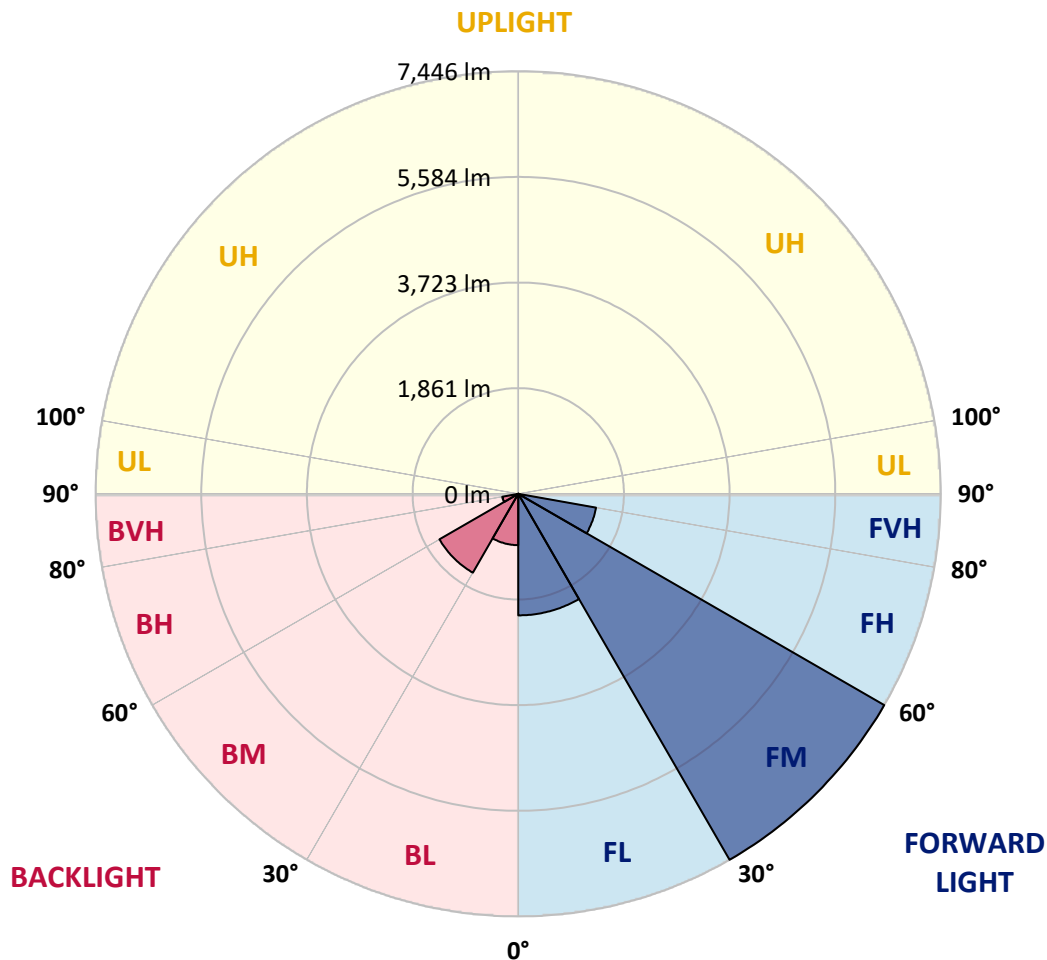
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2141.5	15.5			
FM (30°-60°)	7445.9	54.0			
FH (60°-80°)	1391.4	10.1			G1/1800
FVH (80°-90°)	10.8	0.1			G1/100
BL (0°-30°)	905.1	6.6	B2/1000		
BM (30°-60°)	1603.1	11.6	B2/2500		
BH (60°-80°)	286.3	2.1	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1
2.5°	7397.9	7419.6	7538.9	7688.0	7766.7	7945.6	7820.9	7853.4	7785.7	7547.0	7359.9
5°	7172.7	7170.1	7321.9	7690.7	8040.5	8395.8	8406.7	8216.8	7883.2	7517.2	6993.8
7.5°	6494.8	6600.6	6757.8	7346.3	7994.4	8260.2	8387.7	8165.3	7652.7	7129.4	6562.6
10°	5982.3	6036.5	6302.3	7012.8	7487.4	7842.6	7921.2	7793.7	7400.6	6747.0	6112.4
12.5°	5686.7	5713.8	6025.7	6622.3	7124.0	7387.0	7425.0	7484.6	7202.6	6589.7	5827.7
15°	5689.4	5711.1	6131.4	6630.4	6828.4	6757.8	6882.6	6879.9	7001.9	6559.9	6066.4
17.5°	6098.9	6123.3	6503.0	6749.7	6662.9	6497.5	6489.4	6614.2	6871.8	6931.4	6427.0
20°	6804.0	6860.9	7140.3	7126.7	6638.5	6305.0	6212.8	6307.7	6907.0	7246.0	7153.8
22.5°	7753.1	7831.7	8027.0	7652.7	6749.7	6174.8	6145.0	6329.4	7140.3	7948.4	7978.2
25°	8854.1	8987.0	9081.9	8601.9	7145.7	6399.9	6258.9	6576.2	7454.8	8710.4	9027.7
27.5°	9583.6	9721.9	9700.2	9014.1	7411.4	6459.6	6340.3	6635.8	7728.7	8892.1	9575.5
30°	10153.1	10237.1	10389.0	9236.5	7677.2	6627.7	6424.3	6888.1	7818.2	9206.7	10237.1
32.5°	10817.5	10874.4	10885.3	9629.6	8086.7	6839.2	6684.6	7202.6	8214.1	9507.7	10822.9
35°	11487.3	11571.3	11395.1	10115.1	8338.9	7232.4	7118.6	7747.7	8531.4	9819.5	11468.3
37.5°	12214.0	12257.5	11850.7	10315.8	8699.5	7872.4	7810.0	8336.1	9081.9	10383.6	12184.2
40°	12824.2	12864.9	12336.1	10562.5	9079.2	8767.3	8927.3	9458.9	9830.3	10749.7	12542.2
42.5°	13163.2	13258.1	12498.8	10427.0	9841.2	9781.5	10492.0	10679.2	10698.1	10852.7	12862.2
45°	13255.4	13212.0	12230.3	10538.2	10508.3	11449.3	12094.8	12341.5	11560.5	11042.6	12943.5
47.5°	12829.6	12886.6	11834.4	10440.5	11384.2	12713.0	13548.2	14006.5	12203.2	10877.1	12742.9
50°	12485.2	12412.0	11706.9	10370.0	11620.2	13309.6	14597.7	14700.8	12794.4	11080.5	12523.2
52.5°	12553.1	12599.1	11910.3	10557.1	11625.6	13344.9	14760.5	14689.9	12813.3	11034.4	12444.5
55°	12696.7	12493.4	11823.5	10144.9	10847.3	12360.5	13100.8	12992.3	11826.3	10543.6	12252.0
57.5°	10955.7	11270.3	10871.7	9057.5	8902.9	9312.4	9298.8	9632.4	8821.6	9073.8	11153.8
60°	8892.1	8946.3	9095.5	7747.7	6161.3	6020.3	5825.0	5613.5	5936.2	7758.5	10144.9
62.5°	7820.9	7755.8	8287.4	7048.0	4349.8	3642.0	3609.5	3739.6	4580.2	7400.6	9515.8
65°	5684.0	5765.3	6150.4	5469.7	3265.0	2779.6	2730.8	3115.9	3707.0	5930.8	7262.2
67.5°	3471.1	3628.4	3663.7	3373.5	2215.6	1759.9	1689.5	2039.3	2676.6	3837.2	4257.6
70°	1602.7	1792.5	1971.5	1841.3	1282.7	724.0	683.4	856.9	1350.5	2207.4	2259.0
72.5°	485.4	488.1	683.4	713.2	414.9	162.7	143.8	189.8	458.3	729.4	767.4
75°	35.2	38.0	92.2	105.8	78.6	40.7	43.4	51.5	97.6	162.7	122.1
77.5°	2.7	2.7	2.7	13.5	24.4	27.1	35.2	40.7	51.5	59.7	54.3
80°	2.7	0.0	2.7	10.9	18.9	27.1	32.6	38.0	40.7	46.1	40.7
82.5°	0.0	0.0	0.0	8.1	18.9	27.1	29.8	40.7	46.1	54.3	46.1
85°	0.0	0.0	0.0	8.1	18.9	29.8	27.1	13.5	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°	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1
2.5°	7392.5	7286.7	7045.3	6923.3	6635.8	6595.1	6313.1	6267.1	6172.1	6120.6	5995.8
5°	6763.3	6635.8	6242.6	5911.8	5526.7	5258.2	5052.2	4865.0	4756.6	4656.2	4702.3
7.5°	6250.8	5879.2	5442.6	4889.4	4444.7	4157.3	3842.7	3585.0	3433.1	3330.1	3354.5
10°	5713.8	5472.5	4865.0	4244.0	3707.0	3503.7	3256.9	3058.9	2844.7	2660.3	2573.5
12.5°	5545.7	5187.7	4425.7	3793.9	3387.1	3189.1	2907.0	2679.3	2405.4	2180.3	2101.7
15°	5575.5	5231.1	4306.3	3631.2	3151.1	2809.5	2473.2	2191.1	1890.2	1732.9	1651.5
17.5°	6060.9	5464.3	4385.0	3460.3	2823.0	2348.5	1933.5	1575.6	1350.5	1187.8	1152.5
20°	6657.5	5968.7	4553.1	3335.6	2554.5	1868.5	1412.8	1103.7	916.6	889.5	881.3
22.5°	7530.7	6793.2	4913.8	3251.5	2226.4	1456.2	968.1	802.7	751.2	745.7	748.5
25°	8751.0	7826.3	5307.0	3180.9	1979.7	1122.7	791.8	680.7	664.4	656.2	669.9
27.5°	9279.9	8450.1	5515.8	3029.1	1754.5	1011.5	781.0	675.3	629.1	615.6	623.7
30°	9933.4	8865.0	5844.0	2768.8	1423.7	832.6	729.4	734.9	713.2	645.4	623.7
32.5°	10801.2	9382.9	6009.4	2584.4	1271.8	688.8	534.2	490.9	547.8	558.7	577.6
35°	11357.1	9909.0	6093.5	2475.9	1193.2	588.5	452.9	412.2	398.6	401.4	412.2
37.5°	12390.3	10619.5	6199.2	2362.0	1133.5	512.6	409.5	371.5	352.5	352.5	363.4
40°	13008.6	11183.6	6342.9	2299.6	1073.9	466.4	371.5	339.0	322.7	322.7	328.2
42.5°	13163.2	11462.9	6294.1	2277.9	1006.1	455.5	339.0	314.6	295.6	292.8	290.2
45°	13439.8	11888.6	6302.3	2253.6	935.6	414.9	320.0	292.8	265.8	263.0	260.3
47.5°	13743.5	12195.1	6318.6	2158.6	867.8	347.1	333.6	271.2	238.7	233.3	233.3
50°	13483.2	12439.1	6459.6	2063.7	781.0	282.0	328.2	254.9	211.5	203.4	206.1
52.5°	13515.8	12726.6	6757.8	1930.8	672.5	225.1	265.8	241.3	192.5	179.0	181.7
55°	12995.1	12422.8	6798.6	1789.8	526.1	173.6	203.4	211.5	162.7	157.3	157.3
57.5°	11186.3	10519.1	5998.6	1450.8	347.1	143.8	146.4	184.4	141.0	135.6	138.3
60°	9572.7	8444.7	4827.0	957.3	217.0	113.9	105.8	187.1	124.7	122.1	130.1
62.5°	8726.6	6939.6	3661.0	593.9	149.2	86.8	73.2	151.8	108.4	108.4	119.3
65°	6305.0	4661.6	2128.7	311.9	105.8	67.8	54.3	86.8	89.5	92.2	97.6
67.5°	3905.1	2353.9	897.6	151.8	70.5	46.1	35.2	54.3	59.7	59.7	65.1
70°	1928.1	938.3	298.3	86.8	54.3	38.0	24.4	29.8	29.8	27.1	29.8
72.5°	596.6	282.0	76.0	54.3	38.0	24.4	13.5	10.9	5.4	0.0	2.7
75°	67.8	54.3	48.8	38.0	24.4	10.9	2.7	0.0	0.0	0.0	0.0
77.5°	40.7	46.1	46.1	38.0	24.4	8.1	0.0	0.0	0.0	0.0	0.0
80°	32.6	35.2	38.0	35.2	21.7	10.9	0.0	0.0	0.0	0.0	0.0
82.5°	40.7	46.1	51.5	46.1	29.8	13.5	5.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	8.1	2.7	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°	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1
2.5°	5944.3	5884.6	5968.7	5844.0	5841.3	5844.0	5808.7	5776.2	5827.7	5966.0	5979.5
5°	4536.9	4664.3	4705.0	4837.9	4764.7	4656.2	4677.9	4604.7	4783.7	4862.3	4799.9
7.5°	3303.0	3294.9	3568.8	3585.0	3620.3	3623.0	3617.5	3473.9	3327.4	3359.9	3457.6
10°	2562.7	2424.4	2557.3	2543.7	2630.5	2606.1	2641.3	2486.7	2538.3	2538.3	2600.7
12.5°	2088.1	1941.7	1917.3	1882.0	1917.3	1930.8	1944.3	1914.5	2001.3	2042.0	2085.4
15°	1594.6	1513.2	1491.5	1423.7	1434.5	1472.5	1505.1	1518.6	1491.5	1553.9	1559.3
17.5°	1158.0	1155.2	1168.8	1166.1	1155.2	1147.1	1144.4	1109.1	1098.3	1103.7	1125.4
20°	878.6	900.3	946.4	992.5	1017.0	987.1	946.4	886.7	862.4	867.8	870.5
22.5°	751.2	783.7	846.1	897.6	922.0	867.8	794.6	743.1	732.2	729.4	726.8
25°	680.7	718.6	764.8	781.0	778.3	745.7	691.5	669.9	664.4	659.0	634.5
27.5°	642.7	656.2	664.4	683.4	691.5	669.9	656.2	623.7	618.3	618.3	602.0
30°	621.0	612.9	623.7	610.2	621.0	604.7	607.5	607.5	593.9	599.3	599.3
32.5°	577.6	580.4	580.4	553.2	561.3	542.4	561.3	577.6	580.4	583.0	604.7
35°	423.1	471.8	496.3	496.3	504.4	490.9	488.1	469.2	444.7	420.3	409.5
37.5°	371.5	390.5	423.1	442.0	455.5	444.7	420.3	390.5	376.9	366.1	355.2
40°	330.8	347.1	368.8	390.5	417.7	404.0	366.1	352.5	336.3	336.3	325.4
42.5°	298.3	306.5	320.0	352.5	382.3	355.2	328.2	317.3	309.1	306.5	303.7
45°	268.5	271.2	284.8	311.9	347.1	320.0	292.8	279.3	282.0	284.8	282.0
47.5°	241.3	246.8	254.9	287.4	309.1	295.6	265.8	257.6	257.6	257.6	260.3
50°	208.8	222.4	238.7	265.8	282.0	273.9	249.5	238.7	233.3	233.3	235.9
52.5°	187.1	197.9	219.6	252.2	273.9	260.3	235.9	219.6	208.8	206.1	211.5
55°	162.7	181.7	217.0	241.3	271.2	257.6	230.5	211.5	192.5	189.8	189.8
57.5°	146.4	176.3	208.8	238.7	263.0	252.2	230.5	206.1	181.7	179.0	179.0
60°	138.3	170.9	203.4	230.5	263.0	246.8	227.8	200.7	173.6	173.6	170.9
62.5°	130.1	160.0	192.5	219.6	252.2	238.7	219.6	192.5	165.4	165.4	160.0
65°	108.4	138.3	160.0	184.4	219.6	206.1	187.1	168.1	146.4	141.0	143.8
67.5°	76.0	94.9	116.6	141.0	162.7	157.3	149.2	135.6	116.6	113.9	111.2
70°	38.0	51.5	70.5	94.9	113.9	108.4	103.0	92.2	81.4	78.6	78.6
72.5°	5.4	16.3	29.8	43.4	59.7	62.4	59.7	56.9	54.3	51.5	54.3
75°	0.0	0.0	0.0	10.9	24.4	29.8	35.2	40.7	40.7	35.2	43.4
77.5°	0.0	0.0	0.0	0.0	2.7	13.5	27.1	35.2	43.4	38.0	51.5
80°	0.0	0.0	0.0	0.0	2.7	16.3	27.1	38.0	43.4	38.0	54.3
82.5°	0.0	0.0	0.0	0.0	2.7	18.9	27.1	35.2	40.7	38.0	48.8
85°	0.0	0.0	0.0	0.0	8.1	16.3	10.9	5.4	2.7	2.7	8.1
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: P648049

CATALOG NUMBER: GALN-SA7A-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1	6991.1
2.5°	6055.5	6248.0	6454.1	6532.8	6776.9	6961.3	7086.0	7354.5	7395.1	7397.9
5°	4865.0	4962.7	5315.2	5480.6	5844.0	6126.0	6427.0	6860.9	7151.1	7172.7
7.5°	3457.6	3728.7	3877.9	4309.1	4756.6	5198.6	5646.0	6150.4	6486.7	6494.8
10°	2782.3	2958.6	3224.4	3547.1	3924.0	4374.2	4970.8	5556.6	5898.2	5982.3
12.5°	2239.9	2549.1	2852.9	3186.4	3473.9	3812.8	4455.5	5236.5	5518.6	5686.7
15°	1724.7	2006.8	2364.7	2755.2	3080.6	3533.5	4265.7	5157.9	5632.4	5689.4
17.5°	1271.8	1524.0	1854.8	2223.7	2711.8	3354.5	4298.2	5556.6	6004.0	6098.9
20°	913.9	1060.3	1320.7	1749.1	2370.1	3145.7	4330.8	5960.6	6641.2	6804.0
22.5°	724.0	783.7	954.6	1334.2	1987.8	2926.1	4561.3	6733.5	7517.2	7753.1
25°	629.1	661.7	743.1	1052.2	1746.4	2904.4	4930.1	7660.9	8683.2	8854.1
27.5°	607.5	612.9	683.4	965.4	1616.3	2760.6	5071.1	8319.8	9410.0	9583.6
30°	640.0	726.8	732.2	816.3	1374.9	2475.9	5144.3	8957.1	10025.6	10153.1
32.5°	553.2	526.1	545.0	631.9	1209.5	2310.5	5282.7	9513.1	10728.0	10817.5
35°	385.1	404.0	447.5	547.8	1057.6	2136.9	5317.9	10125.9	11395.1	11487.3
37.5°	355.2	366.1	401.4	466.4	930.1	2039.3	5269.0	10573.4	12086.6	12214.0
40°	330.8	344.4	363.4	423.1	835.2	1930.8	5201.3	10977.4	12509.7	12824.2
42.5°	311.9	322.7	339.0	404.0	753.9	1822.4	5106.3	11547.0	12889.3	13163.2
45°	290.2	306.5	325.4	393.2	707.8	1749.1	5035.9	11511.7	13109.0	13255.4
47.5°	268.5	295.6	317.3	366.1	694.2	1713.9	5065.7	11378.8	12930.0	12829.6
50°	246.8	282.0	320.0	303.7	661.7	1643.4	5100.9	11560.5	12504.2	12485.2
52.5°	227.8	268.5	298.3	249.5	588.5	1575.6	5442.6	11799.1	12805.3	12553.1
55°	200.7	241.3	238.7	200.7	477.3	1524.0	5711.1	11804.6	12601.8	12696.7
57.5°	181.7	214.2	187.1	168.1	352.5	1274.6	5274.5	9898.1	10787.6	10955.7
60°	168.1	208.8	141.0	132.9	230.5	919.3	4604.7	7666.4	8574.8	8892.1
62.5°	154.6	197.9	111.2	108.4	160.0	653.6	3785.7	6416.1	7389.7	7820.9
65°	135.6	141.0	89.5	84.1	113.9	352.5	2305.1	4417.5	5524.0	5684.0
67.5°	111.2	108.4	73.2	67.8	76.0	170.9	1017.0	2212.8	3202.6	3471.1
70°	89.5	89.5	62.4	54.3	54.3	78.6	265.8	881.3	1448.1	1602.7
72.5°	65.1	67.8	48.8	43.4	40.7	38.0	43.4	176.3	379.7	485.4
75°	56.9	59.7	48.8	38.0	29.8	24.4	18.9	16.3	21.7	35.2
77.5°	62.4	62.4	51.5	35.2	27.1	18.9	10.9	5.4	5.4	2.7
80°	78.6	81.4	67.8	46.1	32.6	21.7	13.5	5.4	2.7	2.7
82.5°	84.1	92.2	76.0	56.9	40.7	24.4	13.5	2.7	0.0	0.0
85°	21.7	35.2	59.7	51.5	40.7	24.4	13.5	2.7	0.0	0.0
87.5°	0.0	2.7	8.1	8.1	10.9	10.9	8.1	2.7	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)