

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: P648104

Luminaire Tested: **GALN-SA8A-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648104
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-SA8A-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 15984.9 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

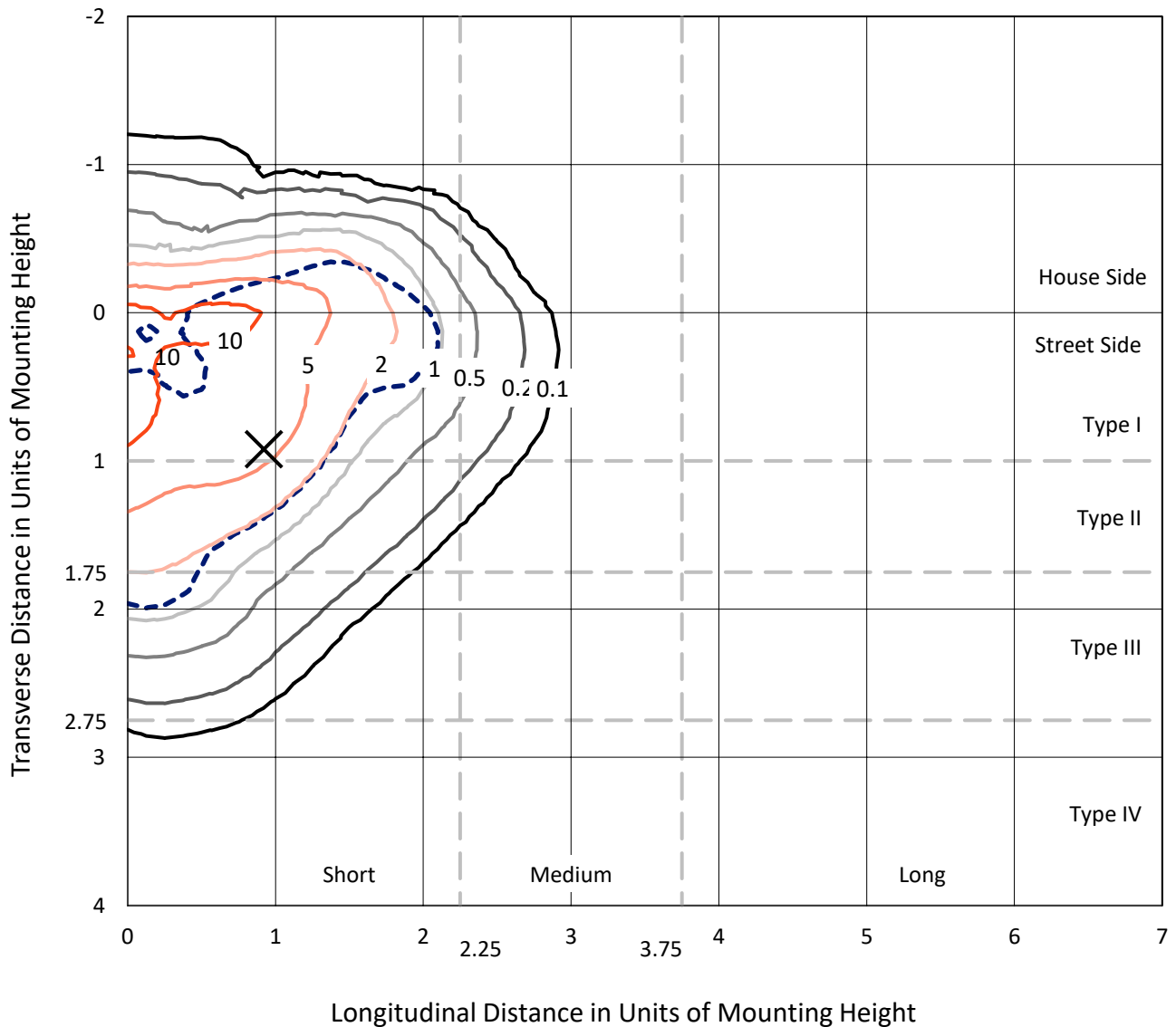
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

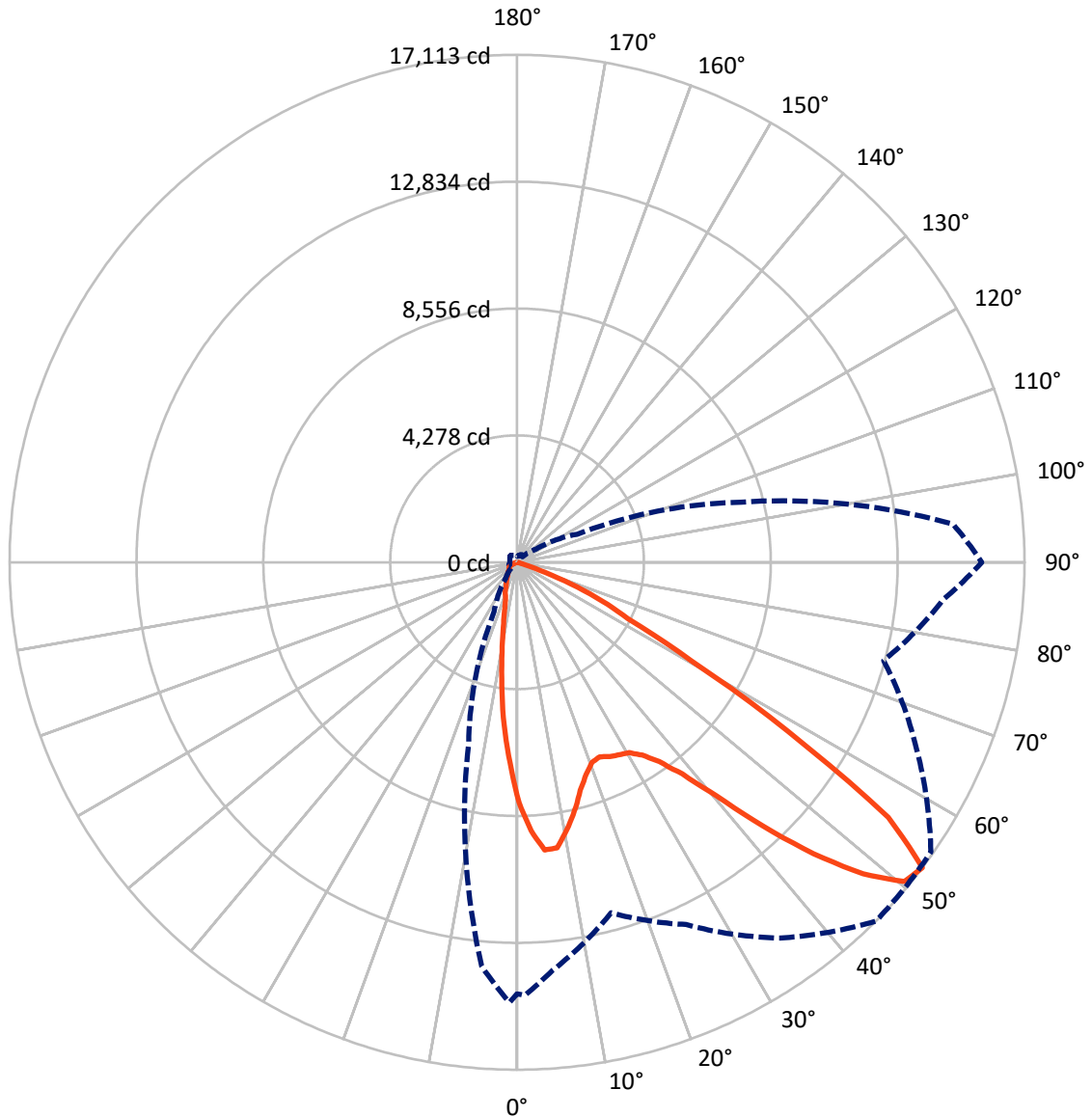
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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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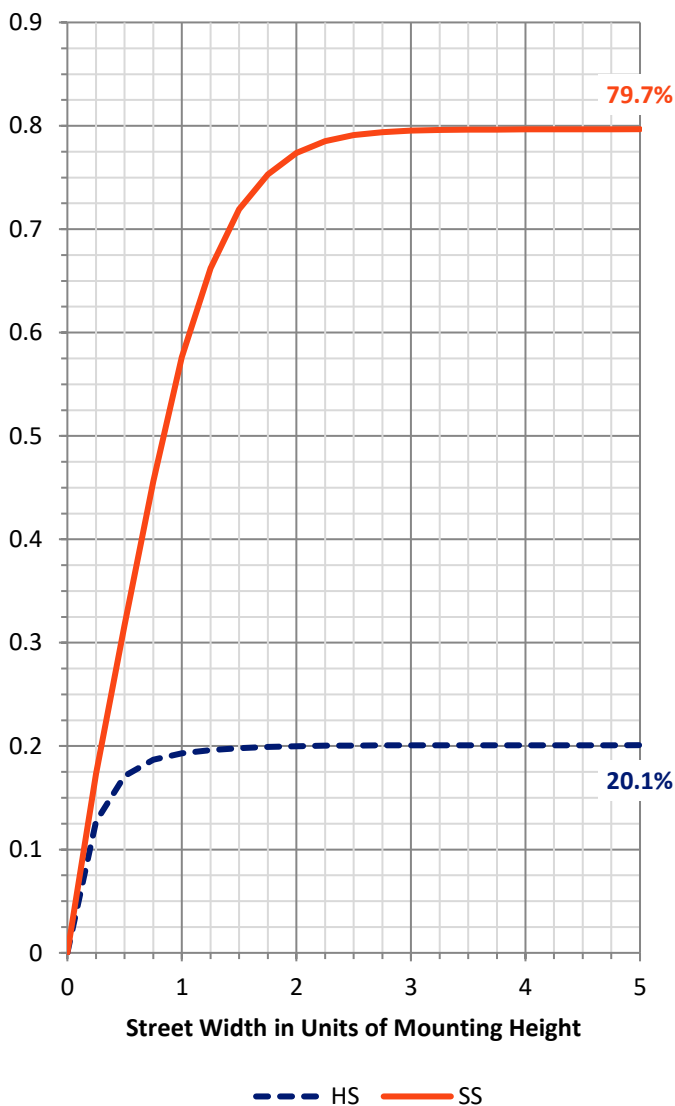
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3244.1	0.0	3244.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12740.8	0.0	12740.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	15984.9	0.0	15984.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.1	3.7
10°-20°	1166.2	7.3
20°-30°	1774.8	11.1
30°-40°	2652.6	16.6
40°-50°	3777.6	23.6
50°-60°	4060.7	25.4
60°-70°	1799.4	11.3
70°-80°	145.6	0.9
80°-90°	17.0	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°	15984.9	100.0
0°-180°	15984.9	100.0

Coefficient of Utilization

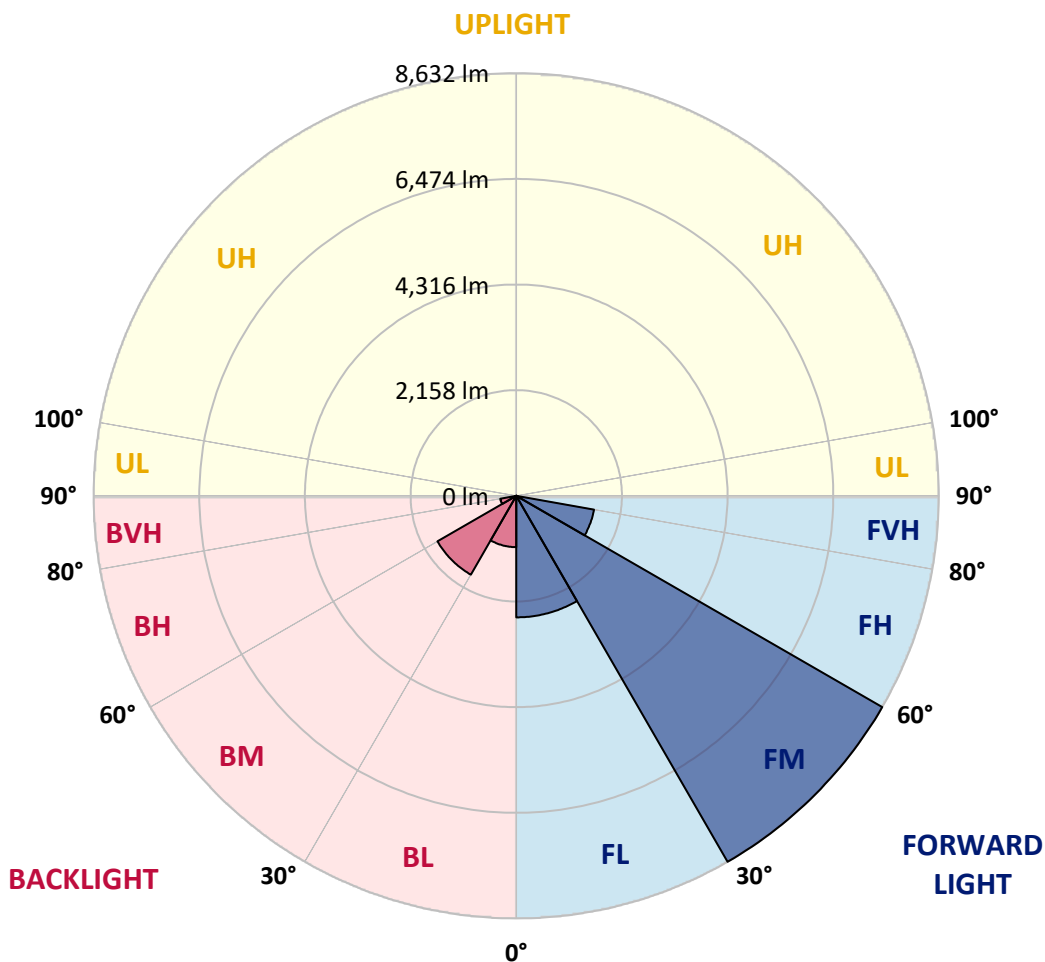


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2482.8	15.5			
FM (30°-60°)	8632.4	54.0			
FH (60°-80°)	1613.1	10.1			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	1049.3	6.6	B3/2500		
BM (30°-60°)	1858.5	11.6	B2/2500		
BH (60°-80°)	331.9	2.1	B1/500		G1/500
BVH (80°-90°)	4.4	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1
2.5°	8576.7	8601.9	8740.2	8913.1	9004.3	9211.8	9067.1	9104.9	9026.3	8749.6	8532.7
5°	8315.8	8312.6	8488.7	8916.3	9321.8	9733.7	9746.2	9526.2	9139.5	8715.0	8108.3
7.5°	7529.8	7652.4	7834.7	8517.0	9268.4	9576.5	9724.2	9466.5	8872.3	8265.4	7608.3
10°	6935.6	6998.5	7306.6	8130.3	8680.4	9092.3	9183.5	9035.7	8579.9	7822.2	7086.5
12.5°	6592.9	6624.3	6985.8	7677.5	8259.2	8564.1	8608.1	8677.3	8350.3	7639.8	6756.4
15°	6596.0	6621.1	7108.5	7686.9	7916.4	7834.7	7979.3	7976.2	8117.7	7605.2	7033.0
17.5°	7070.7	7099.1	7539.2	7825.3	7724.7	7532.9	7523.5	7668.1	7966.8	8035.9	7451.2
20°	7888.2	7954.2	8278.0	8262.3	7696.4	7309.7	7202.8	7312.8	8007.7	8400.7	8293.8
22.5°	8988.5	9079.7	9306.1	8872.3	7825.3	7158.8	7124.2	7338.0	8278.0	9214.9	9249.5
25°	10265.0	10419.1	10529.1	9972.6	8284.3	7419.7	7256.2	7624.1	8642.8	10098.4	10466.2
27.5°	11110.7	11271.1	11245.9	10450.5	8592.4	7488.9	7350.6	7693.3	8960.3	10309.1	11101.3
30°	11771.0	11868.4	12044.5	10708.3	8900.5	7683.8	7448.1	7985.7	9064.0	10673.7	11868.4
32.5°	12541.2	12607.2	12619.8	11164.2	9375.3	7929.0	7749.8	8350.3	9523.0	11022.7	12547.5
35°	13317.8	13415.2	13210.9	11726.9	9667.6	8384.9	8252.9	8982.3	9890.9	11384.3	13295.8
37.5°	14160.4	14210.7	13739.1	11959.6	10085.8	9126.9	9054.6	9664.5	10529.1	12038.2	14125.8
40°	14867.8	14914.9	14301.8	12245.7	10525.9	10164.4	10349.9	10966.1	11396.8	12462.6	14540.8
42.5°	15260.7	15370.8	14490.5	12088.5	11409.4	11340.3	12164.0	12380.9	12402.9	12582.1	14911.8
45°	15367.6	15317.4	14179.2	12217.4	12182.9	13273.8	14022.0	14308.2	13402.7	12802.2	15006.1
47.5°	14874.0	14940.0	13720.2	12104.2	13198.3	14738.9	15707.2	16238.5	14147.8	12610.4	14773.4
50°	14474.8	14389.9	13572.4	12022.5	13471.8	15430.5	16923.9	17043.4	14833.2	12846.2	14518.8
52.5°	14553.4	14606.8	13808.2	12239.4	13478.1	15471.4	17112.5	17030.8	14855.2	12792.7	14427.6
55°	14720.0	14484.2	13707.7	11761.5	12575.8	14330.2	15188.4	15062.6	13710.8	12223.7	14204.4
57.5°	12701.6	13066.2	12604.1	10500.8	10321.6	10796.3	10780.6	11167.3	10227.3	10519.7	12931.1
60°	10309.1	10371.9	10544.8	8982.3	7143.1	6979.6	6753.2	6508.0	6882.1	8994.9	11761.5
62.5°	9067.1	8991.7	9608.0	8171.2	5042.9	4222.3	4184.6	4335.5	5310.1	8579.9	11032.2
65°	6589.7	6684.1	7130.5	6341.4	3785.3	3222.5	3166.0	3612.4	4297.8	6875.8	8419.5
67.5°	4024.2	4206.6	4247.5	3911.1	2568.6	2040.4	1958.7	2364.3	3103.1	4448.7	4936.0
70°	1858.1	2078.2	2285.7	2134.8	1487.1	839.5	792.2	993.5	1565.7	2559.2	2618.9
72.5°	562.7	565.9	792.2	826.8	481.0	188.6	166.6	220.1	531.3	845.7	889.7
75°	40.9	44.0	106.9	122.6	91.1	47.1	50.3	59.7	113.1	188.6	141.5
77.5°	3.1	3.1	3.1	15.7	28.3	31.5	40.9	47.1	59.7	69.1	62.9
80°	3.1	0.0	3.1	12.6	22.0	31.5	37.7	44.0	47.1	53.5	47.1
82.5°	0.0	0.0	0.0	9.4	22.0	31.5	34.6	47.1	53.5	62.9	53.5
85°	0.0	0.0	0.0	9.4	22.0	34.6	31.5	15.7	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°	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1
2.5°	8570.4	8447.8	8168.0	8026.5	7693.3	7646.1	7319.1	7265.7	7155.6	7095.9	6951.3
5°	7841.0	7693.3	7237.3	6853.8	6407.4	6096.1	5857.2	5640.3	5514.5	5398.2	5451.6
7.5°	7246.8	6816.1	6309.9	5668.5	5152.9	4819.7	4455.0	4156.3	3980.2	3860.7	3889.1
10°	6624.3	6344.5	5640.3	4920.3	4297.8	4062.0	3775.9	3546.4	3298.0	3084.2	2983.6
12.5°	6429.4	6014.4	5130.9	4398.4	3926.8	3697.3	3370.3	3106.2	2788.7	2527.8	2436.5
15°	6464.0	6064.6	4992.6	4209.7	3653.2	3257.1	2867.3	2540.3	2191.3	2009.0	1914.7
17.5°	7026.7	6335.1	5083.8	4011.7	3272.9	2722.6	2241.7	1826.7	1565.7	1377.1	1336.2
20°	7718.4	6919.8	5278.7	3867.1	2961.6	2166.2	1638.0	1279.6	1062.7	1031.2	1021.8
22.5°	8730.8	7875.6	5696.9	3769.6	2581.2	1688.3	1122.4	930.6	870.9	864.6	867.7
25°	10145.6	9073.5	6152.7	3687.9	2295.1	1301.6	918.1	789.1	770.2	760.8	776.6
27.5°	10758.6	9796.6	6394.8	3511.8	2034.2	1172.7	905.5	782.8	729.4	713.7	723.1
30°	11516.3	10277.6	6775.2	3210.0	1650.6	965.2	845.7	852.0	826.8	748.2	723.1
32.5°	12522.4	10878.1	6967.0	2996.1	1474.5	798.6	619.4	569.1	635.1	647.6	669.7
35°	13166.8	11488.0	7064.5	2870.4	1383.3	682.2	525.0	477.9	462.1	465.3	477.9
37.5°	14364.7	12311.7	7187.1	2738.4	1314.2	594.2	474.7	430.7	408.7	408.7	421.3
40°	15081.5	12965.7	7353.7	2666.0	1245.0	540.7	430.7	393.0	374.1	374.1	380.4
42.5°	15260.7	13289.5	7297.1	2640.9	1166.4	528.2	393.0	364.7	342.7	339.5	336.4
45°	15581.5	13783.1	7306.6	2612.6	1084.7	481.0	371.0	339.5	308.1	305.0	301.8
47.5°	15933.6	14138.3	7325.4	2502.6	1006.1	402.5	386.7	314.4	276.6	270.4	270.4
50°	15631.7	14421.3	7488.9	2392.5	905.5	327.0	380.4	295.5	245.2	235.8	239.0
52.5°	15669.5	14754.5	7834.7	2238.5	779.7	261.0	308.1	279.8	223.2	207.5	210.6
55°	15065.9	14402.4	7881.9	2075.0	610.0	201.2	235.8	245.2	188.6	182.4	182.4
57.5°	12968.8	12195.4	6954.4	1682.0	402.5	166.6	169.8	213.8	163.5	157.2	160.4
60°	11098.2	9790.2	5596.3	1109.8	251.5	132.0	122.6	217.0	144.6	141.5	150.9
62.5°	10117.2	8045.4	4244.3	688.5	172.9	100.6	84.9	176.1	125.7	125.7	138.4
65°	7309.7	5404.4	2468.0	361.6	122.6	78.6	62.9	100.6	103.7	106.9	113.1
67.5°	4527.3	2729.0	1040.7	176.1	81.7	53.5	40.9	62.9	69.1	69.1	75.5
70°	2235.4	1087.8	345.9	100.6	62.9	44.0	28.3	34.6	34.6	31.5	34.6
72.5°	691.7	327.0	88.0	62.9	44.0	28.3	15.7	12.6	6.3	0.0	3.1
75°	78.6	62.9	56.6	44.0	28.3	12.6	3.1	0.0	0.0	0.0	0.0
77.5°	47.1	53.5	53.5	44.0	28.3	9.4	0.0	0.0	0.0	0.0	0.0
80°	37.7	40.9	44.0	40.9	25.1	12.6	0.0	0.0	0.0	0.0	0.0
82.5°	47.1	53.5	59.7	53.5	34.6	15.7	6.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.4	3.1	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°	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1
2.5°	6891.6	6822.4	6919.8	6775.2	6772.1	6775.2	6734.3	6696.6	6756.4	6916.7	6932.4
5°	5259.8	5407.6	5454.8	5608.8	5523.9	5398.2	5423.3	5338.4	5545.9	5637.1	5564.8
7.5°	3829.3	3819.9	4137.5	4156.3	4197.2	4200.3	4194.1	4027.4	3857.6	3895.3	4008.6
10°	2971.0	2810.7	2964.8	2949.0	3049.6	3021.4	3062.2	2883.0	2942.7	2942.7	3015.0
12.5°	2420.9	2251.0	2222.8	2181.9	2222.8	2238.5	2254.2	2219.6	2320.3	2367.4	2417.7
15°	1848.7	1754.3	1729.2	1650.6	1663.2	1707.2	1744.9	1760.6	1729.2	1801.4	1807.8
17.5°	1342.5	1339.3	1355.1	1351.9	1339.3	1329.9	1326.7	1285.8	1273.3	1279.6	1304.7
20°	1018.6	1043.8	1097.2	1150.7	1179.0	1144.4	1097.2	1028.1	999.8	1006.1	1009.2
22.5°	870.9	908.6	980.9	1040.7	1069.0	1006.1	921.2	861.5	848.9	845.7	842.6
25°	789.1	833.1	886.6	905.5	902.3	864.6	801.7	776.6	770.2	764.0	735.7
27.5°	745.1	760.8	770.2	792.2	801.7	776.6	760.8	723.1	716.8	716.8	698.0
30°	720.0	710.5	723.1	707.4	720.0	701.1	704.2	704.2	688.5	694.8	694.8
32.5°	669.7	672.8	672.8	641.4	650.8	628.8	650.8	669.7	672.8	676.0	701.1
35°	490.5	547.1	575.3	575.3	584.7	569.1	565.9	543.9	515.6	487.3	474.7
37.5°	430.7	452.7	490.5	512.5	528.2	515.6	487.3	452.7	437.0	424.5	411.9
40°	383.6	402.5	427.6	452.7	484.2	468.5	424.5	408.7	389.9	389.9	377.2
42.5°	345.9	355.2	371.0	408.7	443.3	411.9	380.4	367.9	358.4	355.2	352.1
45°	311.2	314.4	330.1	361.6	402.5	371.0	339.5	323.8	327.0	330.1	327.0
47.5°	279.8	286.1	295.5	333.2	358.4	342.7	308.1	298.7	298.7	298.7	301.8
50°	242.1	257.8	276.6	308.1	327.0	317.5	289.2	276.6	270.4	270.4	273.5
52.5°	217.0	229.5	254.6	292.4	317.5	301.8	273.5	254.6	242.1	239.0	245.2
55°	188.6	210.6	251.5	279.8	314.4	298.7	267.2	245.2	223.2	220.1	220.1
57.5°	169.8	204.4	242.1	276.6	305.0	292.4	267.2	239.0	210.6	207.5	207.5
60°	160.4	198.1	235.8	267.2	305.0	286.1	264.1	232.6	201.2	201.2	198.1
62.5°	150.9	185.5	223.2	254.6	292.4	276.6	254.6	223.2	191.8	191.8	185.5
65°	125.7	160.4	185.5	213.8	254.6	239.0	217.0	194.9	169.8	163.5	166.6
67.5°	88.0	110.0	135.2	163.5	188.6	182.4	172.9	157.2	135.2	132.0	128.9
70°	44.0	59.7	81.7	110.0	132.0	125.7	119.5	106.9	94.4	91.1	91.1
72.5°	6.3	18.9	34.6	50.3	69.1	72.3	69.1	66.0	62.9	59.7	62.9
75°	0.0	0.0	0.0	12.6	28.3	34.6	40.9	47.1	47.1	40.9	50.3
77.5°	0.0	0.0	0.0	0.0	3.1	15.7	31.5	40.9	50.3	44.0	59.7
80°	0.0	0.0	0.0	0.0	3.1	18.9	31.5	44.0	50.3	44.0	62.9
82.5°	0.0	0.0	0.0	0.0	3.1	22.0	31.5	40.9	47.1	44.0	56.6
85°	0.0	0.0	0.0	0.0	9.4	18.9	12.6	6.3	3.1	3.1	9.4
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: P648104

CATALOG NUMBER: GALN-SA8A-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1
2.5°	7020.5	7243.7	7482.6	7573.8	7856.7	8070.5	8215.2	8526.4	8573.5	8576.7
5°	5640.3	5753.4	6162.1	6354.0	6775.2	7102.2	7451.2	7954.2	8290.6	8315.8
7.5°	4008.6	4322.9	4495.8	4995.8	5514.5	6027.0	6545.7	7130.5	7520.3	7529.8
10°	3225.7	3430.1	3738.2	4112.3	4549.3	5071.2	5762.9	6442.0	6838.1	6935.6
12.5°	2596.9	2955.3	3307.5	3694.1	4027.4	4420.4	5165.5	6071.0	6398.0	6592.9
15°	1999.5	2326.5	2741.5	3194.2	3571.5	4096.6	4945.4	5979.8	6530.0	6596.0
17.5°	1474.5	1766.9	2150.4	2578.0	3144.0	3889.1	4983.2	6442.0	6960.7	7070.7
20°	1059.5	1229.3	1531.1	2027.8	2747.8	3647.0	5020.9	6910.4	7699.6	7888.2
22.5°	839.5	908.6	1106.7	1546.8	2304.5	3392.3	5288.1	7806.4	8715.0	8988.5
25°	729.4	767.1	861.5	1219.8	2024.7	3367.1	5715.7	8881.6	10067.0	10265.0
27.5°	704.2	710.5	792.2	1119.2	1873.8	3200.5	5879.2	9645.6	10909.5	11110.7
30°	742.0	842.6	848.9	946.3	1594.0	2870.4	5964.1	10384.5	11623.2	11771.0
32.5°	641.4	610.0	632.0	732.6	1402.2	2678.6	6124.4	11029.0	12437.5	12541.2
35°	446.5	468.5	518.7	635.1	1226.2	2477.4	6165.3	11739.5	13210.9	13317.8
37.5°	411.9	424.5	465.3	540.7	1078.3	2364.3	6108.7	12258.3	14012.6	14160.4
40°	383.6	399.3	421.3	490.5	968.3	2238.5	6030.1	12726.7	14503.0	14867.8
42.5°	361.6	374.1	393.0	468.5	874.0	2112.8	5920.0	13387.0	14943.2	15260.7
45°	336.4	355.2	377.2	455.9	820.6	2027.8	5838.3	13346.1	15197.9	15367.6
47.5°	311.2	342.7	367.9	424.5	804.8	1986.9	5872.9	13192.1	14990.4	14874.0
50°	286.1	327.0	371.0	352.1	767.1	1905.3	5913.8	13402.7	14496.8	14474.8
52.5°	264.1	311.2	345.9	289.2	682.2	1826.7	6309.9	13679.3	14845.8	14553.4
55°	232.6	279.8	276.6	232.6	553.3	1766.9	6621.1	13685.6	14609.9	14720.0
57.5°	210.6	248.4	217.0	194.9	408.7	1477.7	6115.0	11475.4	12506.6	12701.6
60°	194.9	242.1	163.5	154.0	267.2	1065.8	5338.4	8888.0	9941.2	10309.1
62.5°	179.2	229.5	128.9	125.7	185.5	757.7	4388.9	7438.6	8567.3	9067.1
65°	157.2	163.5	103.7	97.5	132.0	408.7	2672.4	5121.5	6404.2	6589.7
67.5°	128.9	125.7	84.9	78.6	88.0	198.1	1179.0	2565.5	3713.0	4024.2
70°	103.7	103.7	72.3	62.9	62.9	91.1	308.1	1021.8	1678.9	1858.1
72.5°	75.5	78.6	56.6	50.3	47.1	44.0	50.3	204.4	440.1	562.7
75°	66.0	69.1	56.6	44.0	34.6	28.3	22.0	18.9	25.1	40.9
77.5°	72.3	72.3	59.7	40.9	31.5	22.0	12.6	6.3	6.3	3.1
80°	91.1	94.4	78.6	53.5	37.7	25.1	15.7	6.3	3.1	3.1
82.5°	97.5	106.9	88.0	66.0	47.1	28.3	15.7	3.1	0.0	0.0
85°	25.1	40.9	69.1	59.7	47.1	28.3	15.7	3.1	0.0	0.0
87.5°	0.0	3.1	9.4	9.4	12.6	12.6	9.4	3.1	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)