

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: P646955

Luminaire Tested: **GALN-SA5C-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19797.4 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 269
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

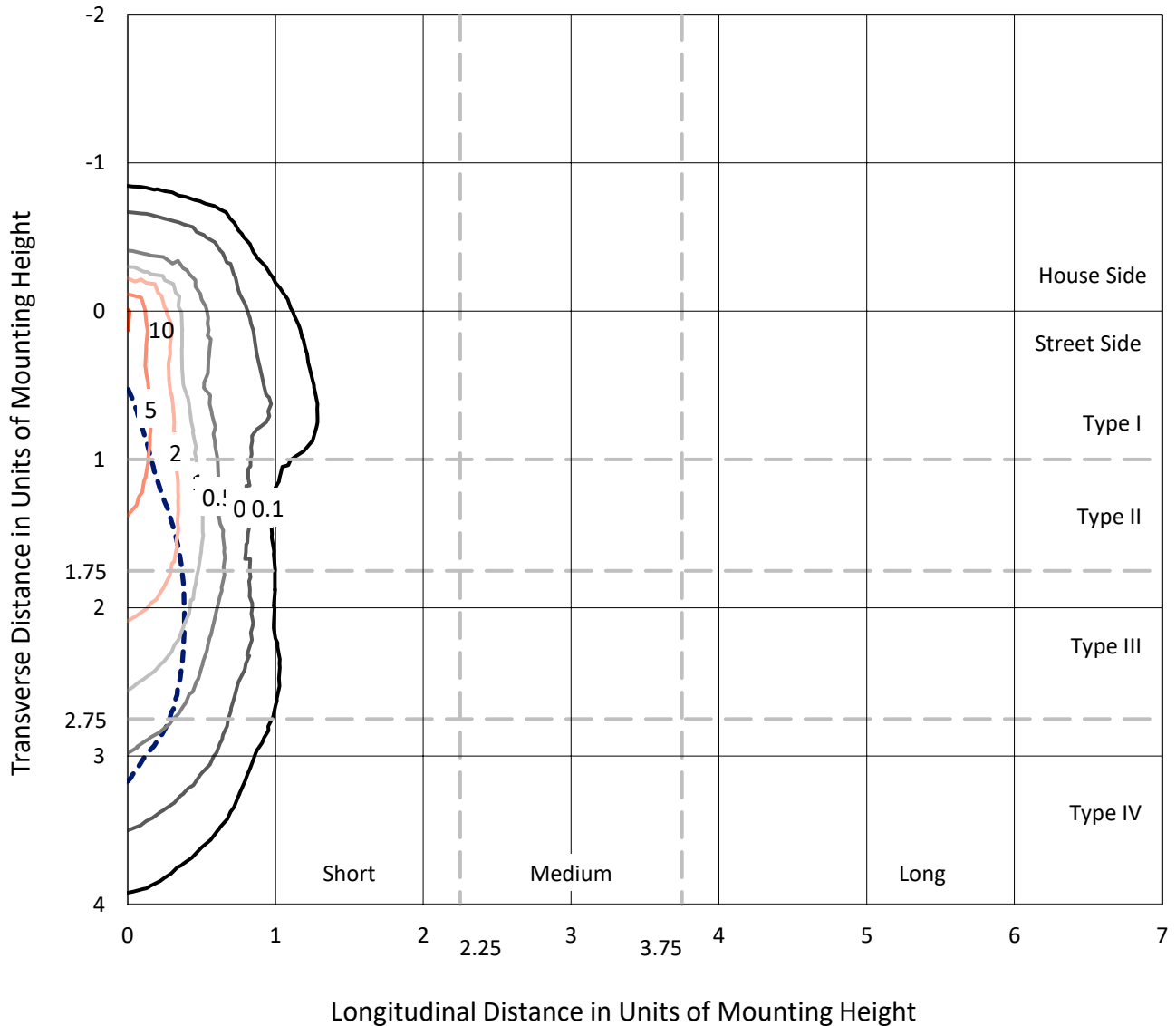




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Iso-Footcandle Lines of Horizontal Illumination

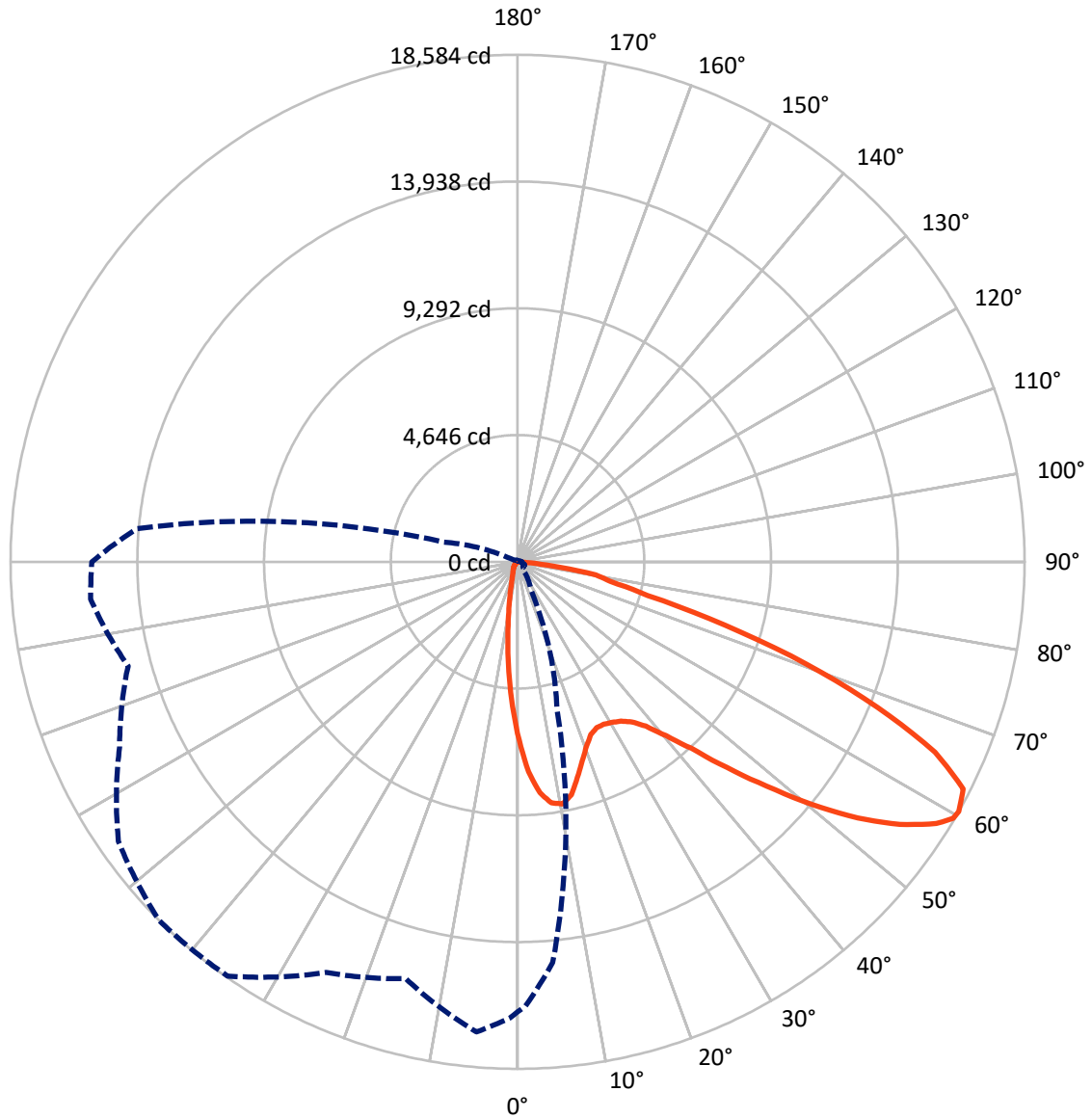
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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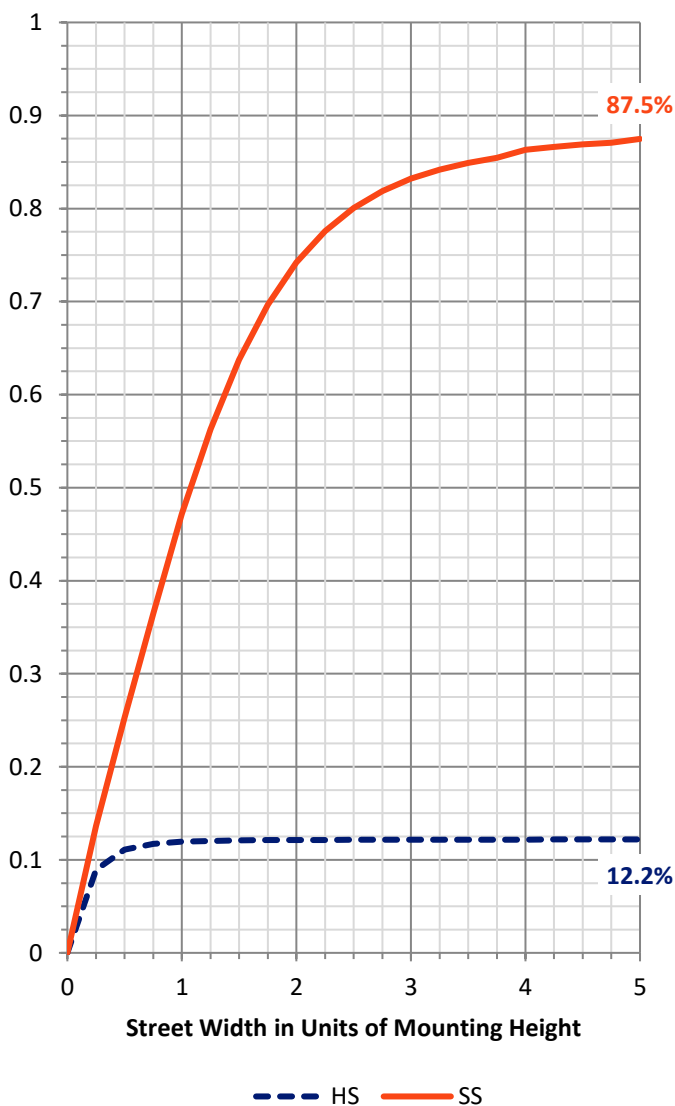
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2441.8	0.0	2441.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	17355.6	0.0	17355.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	19797.4	0.0	19797.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.7	2.5
10°-20°	966.5	4.9
20°-30°	1417.2	7.2
30°-40°	2107.6	10.6
40°-50°	3067.2	15.5
50°-60°	4423.2	22.3
60°-70°	4865.0	24.6
70°-80°	2179.1	11.0
80°-90°	284.7	1.4
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°	19797.4	100.0
0°-180°	19797.4	100.0

Coefficient of Utilization



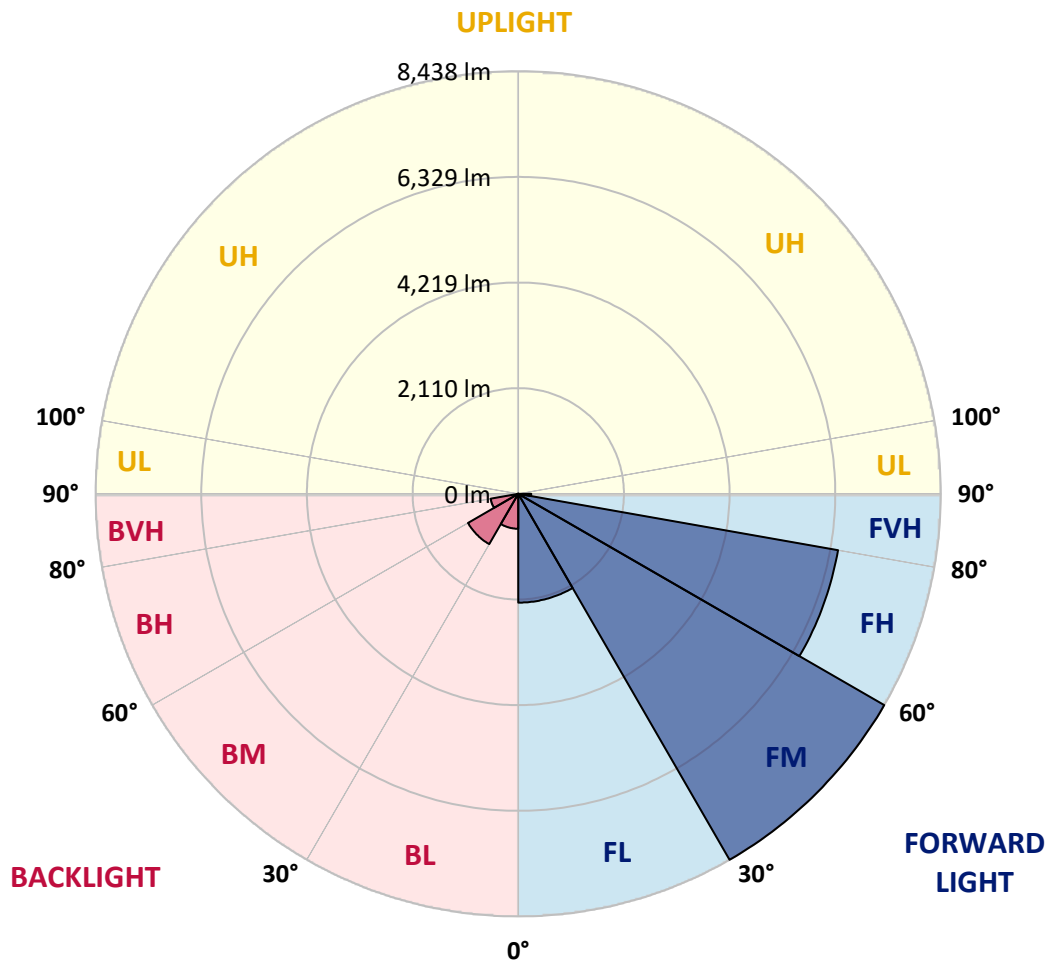
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2172.7	11.0			
FM (30°-60°)	8438.2	42.6			
FH (60°-80°)	6484.2	32.8			G3/7500
FVH (80°-90°)	260.4	1.3			G3/500
BL (0°-30°)	697.7	3.5	B2/1000		
BM (30°-60°)	1159.8	5.9	B2/2500		
BH (60°-80°)	560.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	24.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3
2.5°	7193.4	7161.9	7089.6	6869.9	6678.8	6429.0	6176.1	5977.5	5855.6	5631.3	5529.0
5°	6969.2	6984.3	6775.1	6323.6	5821.0	5477.9	5103.1	4805.1	4477.1	4269.4	4051.2
7.5°	6383.8	6353.7	6126.4	5497.4	4886.4	4389.8	3915.8	3530.5	3288.2	3094.1	2931.6
10°	5882.7	5860.1	5569.6	4760.0	4103.9	3732.2	3411.6	3074.5	2814.2	2529.7	2302.5
12.5°	5568.1	5516.9	5182.9	4337.1	3802.9	3456.8	3107.6	2756.9	2397.3	2109.9	1834.5
15°	5462.8	5389.1	5017.3	4191.2	3610.3	3170.8	2732.9	2329.6	1915.8	1598.2	1390.5
17.5°	5653.9	5532.1	5136.2	4165.6	3380.0	2797.6	2258.9	1733.6	1303.2	1061.0	933.0
20°	6091.8	5951.9	5437.2	4140.0	3124.2	2379.2	1717.1	1225.0	901.5	769.0	698.3
22.5°	6741.9	6549.3	5882.7	4180.6	2887.9	1971.4	1240.0	865.3	716.4	633.5	583.9
25°	7523.0	7362.0	6447.0	4325.1	2701.3	1650.9	958.6	707.3	603.5	552.3	514.7
27.5°	8379.3	8122.0	7176.9	4498.2	2531.3	1402.6	841.3	632.0	537.2	490.6	471.1
30°	8988.8	8788.6	7787.9	4618.5	2319.1	1216.0	769.0	623.0	538.8	483.1	446.9
32.5°	9590.7	9334.9	8299.6	4674.2	2164.1	1086.6	665.2	543.2	472.5	444.0	407.9
35°	10234.8	9967.0	8809.7	4644.1	2048.2	1000.8	603.5	484.6	404.8	356.7	320.6
37.5°	10886.4	10603.5	9316.8	4535.8	1975.9	966.1	555.3	460.5	382.3	332.6	293.5
40°	11660.0	11282.2	9792.4	4447.0	1900.7	948.1	523.7	445.4	365.7	313.0	273.9
42.5°	12292.0	11932.4	10242.3	4400.3	1849.5	905.9	523.7	433.4	355.2	296.4	255.8
45°	12891.0	12517.7	10728.4	4438.0	1828.5	853.3	529.7	431.9	347.7	284.5	243.8
47.5°	13392.1	13068.6	11228.1	4579.5	1801.4	796.1	498.1	453.0	343.1	273.9	231.8
50°	13983.5	13670.6	11888.8	4865.3	1753.2	738.9	459.0	487.6	341.6	264.9	221.2
52.5°	14817.3	14478.7	12800.7	5190.4	1676.5	651.6	422.9	483.1	335.6	249.8	210.7
55°	15836.1	15562.2	13857.1	5580.2	1571.1	553.8	365.7	428.9	317.5	224.3	192.6
57.5°	16489.2	16255.9	14648.8	5748.7	1410.1	453.0	322.0	359.7	290.4	200.1	171.6
59°	16565.9	16355.3	14814.3	5693.0	1304.7	413.8	301.0	308.5	282.9	186.6	159.5
60°	16501.3	16283.0	14748.0	5584.7	1206.9	386.7	282.9	273.9	284.5	179.1	150.5
62.5°	16085.9	15712.7	14105.4	5035.4	1054.9	355.2	251.3	224.3	251.3	161.1	134.0
65°	15283.8	14723.9	12833.8	4261.9	994.7	337.1	213.7	188.1	191.1	141.5	115.9
67.5°	13882.7	13177.0	11140.8	3462.8	969.1	338.6	180.6	168.6	147.5	120.4	102.3
70°	11667.5	10963.2	8939.1	2848.8	957.1	338.6	153.5	144.5	123.4	100.9	88.8
72.5°	8267.9	7509.4	6030.1	2237.8	862.3	337.1	130.9	130.9	100.9	84.3	72.3
75°	4671.2	4677.3	3790.8	1583.1	716.4	278.4	105.3	103.8	73.8	64.7	54.2
77.5°	2722.3	2674.2	2555.3	680.2	332.6	126.4	73.8	63.2	51.1	46.7	39.2
80°	1399.5	1151.2	1121.2	246.8	118.9	79.8	51.1	36.1	33.1	30.1	27.1
82.5°	413.8	415.4	370.2	99.3	66.2	52.7	25.6	19.6	18.1	16.5	16.5
85°	28.6	18.1	21.1	30.1	40.6	21.1	1.5	4.5	4.5	6.0	7.5
87.5°	3.0	1.5	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°	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3
2.5°	5416.2	5482.3	5358.9	5362.0	5259.6	5292.8	5172.3	5211.5	5140.7	5194.9	5354.5
5°	4075.3	4090.3	3991.0	3959.4	3974.4	4036.1	4060.2	3950.4	3997.1	3905.2	3899.2
7.5°	2871.3	2889.4	2832.2	2824.7	2933.0	2907.4	2954.1	2841.3	2734.4	2781.1	2695.2
10°	2230.3	2155.1	2037.6	2004.6	1983.5	1997.0	1997.0	1894.7	1879.6	1839.0	1900.7
12.5°	1760.7	1669.0	1557.5	1407.1	1369.5	1366.4	1310.7	1220.5	1191.9	1157.3	1208.4
15°	1279.2	1241.5	1148.3	1063.9	978.2	961.6	871.3	797.6	699.8	686.2	681.8
17.5°	899.9	844.2	842.7	794.6	744.9	711.8	627.6	543.2	505.7	501.1	501.1
20°	674.2	654.7	623.0	617.0	602.0	564.3	489.1	444.0	425.9	427.4	433.4
22.5°	567.4	553.8	525.2	511.7	505.7	472.5	416.9	386.7	377.7	377.7	379.2
25°	507.1	495.1	463.5	442.5	434.9	410.8	367.2	344.6	337.1	337.1	337.1
27.5°	462.0	446.9	413.8	395.8	382.3	355.2	328.1	305.5	297.9	297.9	299.5
30°	430.4	413.8	383.7	359.7	338.6	314.5	292.0	272.4	263.3	261.8	263.3
32.5°	388.3	373.2	343.1	328.1	304.0	275.4	257.4	239.3	230.3	231.8	230.3
35°	302.5	297.9	276.9	281.4	267.9	243.8	227.2	207.7	197.2	195.7	198.6
37.5°	275.4	257.4	233.3	234.7	230.3	221.2	194.1	173.0	165.5	165.5	167.0
40°	254.3	236.2	209.2	195.7	197.2	197.2	168.6	146.0	138.4	136.9	139.9
42.5°	236.2	218.2	188.1	165.5	159.5	167.0	143.0	120.4	112.8	109.9	112.8
45°	224.3	204.7	170.1	144.5	126.4	135.5	117.4	99.3	90.3	90.3	88.8
47.5°	212.2	194.1	156.5	124.9	105.3	100.9	96.3	79.8	70.7	69.2	70.7
50°	201.6	183.6	141.5	108.4	88.8	78.2	78.2	63.2	57.2	54.2	55.7
52.5°	191.1	171.6	127.9	96.3	76.7	63.2	55.7	51.1	46.7	45.2	46.7
55°	176.1	156.5	114.4	82.8	66.2	52.7	43.6	42.1	39.2	36.1	39.2
57.5°	158.0	139.9	100.9	70.7	52.7	40.6	36.1	34.6	31.6	30.1	30.1
59°	147.5	130.9	93.3	61.7	46.7	36.1	33.1	31.6	28.6	25.6	27.1
60°	141.5	127.9	88.8	57.2	42.1	33.1	30.1	28.6	25.6	24.1	25.6
62.5°	124.9	114.4	78.2	46.7	33.1	24.1	21.1	22.6	21.1	19.6	21.1
65°	109.9	100.9	66.2	36.1	25.6	16.5	15.0	19.6	18.1	16.5	18.1
67.5°	97.8	87.3	55.7	27.1	18.1	9.0	10.6	16.5	16.5	15.0	16.5
70°	84.3	75.2	45.2	19.6	9.0	4.5	7.5	12.1	15.0	13.5	15.0
72.5°	69.2	58.7	34.6	13.5	4.5	0.0	4.5	10.6	15.0	13.5	15.0
75°	54.2	43.6	25.6	7.5	0.0	0.0	1.5	9.0	15.0	13.5	15.0
77.5°	39.2	31.6	15.0	1.5	0.0	0.0	1.5	9.0	15.0	13.5	15.0
80°	25.6	22.6	6.0	0.0	0.0	0.0	1.5	9.0	15.0	15.0	16.5
82.5°	16.5	12.1	0.0	0.0	0.0	0.0	3.0	12.1	16.5	18.1	18.1
85°	7.5	0.0	0.0	0.0	0.0	0.0	6.0	15.0	19.6	19.6	19.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	10.6	18.1	22.6	22.6	22.6
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°	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3
2.5°	5381.6	5476.3	5610.3	5816.4	5983.5	6246.9	6448.5	6723.9	7002.3	7086.6	7217.5
5°	3960.9	4082.8	4386.8	4663.7	4838.2	5395.1	5747.2	6302.5	6800.7	7040.0	7300.3
7.5°	2751.0	2895.5	3127.2	3513.9	3881.2	4334.1	4903.0	5538.0	6267.9	6609.5	6976.8
10°	1930.8	2111.4	2437.9	2755.5	3217.5	3647.9	4209.2	4910.5	5715.6	6118.9	6579.5
12.5°	1219.0	1380.0	1811.9	2168.6	2745.0	3244.6	3762.2	4397.3	5330.4	5744.2	6227.3
15°	696.8	832.2	1033.9	1491.4	2130.9	2791.6	3437.2	4174.6	5133.2	5643.4	6165.6
17.5°	519.2	555.3	645.6	904.4	1486.8	2258.9	3137.7	4106.9	5267.2	5866.1	6462.0
20°	436.4	460.5	502.6	604.9	948.1	1739.7	2845.7	4118.9	5700.6	6453.0	7018.9
22.5°	391.3	406.3	440.9	507.1	647.1	1267.1	2504.2	4189.7	6225.8	7173.8	7827.0
25°	343.1	362.7	392.8	450.0	538.8	878.8	2167.0	4347.7	6961.7	8088.9	8702.8
27.5°	305.5	323.5	353.7	406.3	472.5	671.2	1774.3	4483.1	7738.2	9009.8	9512.5
30°	267.9	286.0	316.0	358.1	418.4	543.2	1351.4	4562.9	8492.2	9700.6	10087.4
32.5°	236.2	251.3	279.9	317.5	367.2	460.5	1065.5	4480.1	9068.5	10328.2	10587.0
35°	204.7	222.8	246.8	281.4	325.0	392.8	886.4	4194.1	9563.6	10973.7	11067.1
37.5°	171.6	192.6	218.2	249.8	284.5	361.2	711.8	3878.1	10093.3	11778.9	11625.4
40°	144.5	164.0	188.1	222.8	254.3	331.1	547.8	3541.0	10665.2	12534.3	12234.8
42.5°	117.4	138.4	167.0	198.6	251.3	288.9	424.4	3191.9	11178.4	13192.0	12785.7
45°	93.3	111.3	141.5	182.1	249.8	248.3	328.1	2847.3	11565.1	13661.5	13196.5
47.5°	73.8	88.8	118.9	177.6	230.3	210.7	263.3	2633.5	11971.5	14084.4	13511.0
50°	58.7	73.8	102.3	185.1	201.6	180.6	221.2	2668.2	12364.3	14299.6	13640.4
52.5°	49.6	64.7	88.8	146.0	155.0	158.0	194.1	2827.7	12871.4	14529.8	13897.8
55°	43.6	57.2	75.2	102.3	120.4	141.5	177.6	2943.6	13550.1	15023.4	14465.1
57.5°	34.6	49.6	67.7	87.3	99.3	123.4	164.0	2952.6	14164.2	15657.0	15219.1
59°	31.6	45.2	63.2	82.8	88.8	111.3	155.0	2875.9	14186.7	15751.8	15565.2
60°	28.6	43.6	60.2	76.7	84.3	105.3	147.5	2787.1	13982.0	15601.4	15708.2
62.5°	24.1	37.6	52.7	61.7	72.3	87.3	127.9	2465.0	12990.3	14919.6	15443.3
65°	21.1	33.1	45.2	51.1	60.2	75.2	112.8	1972.9	11894.7	13995.6	14684.9
67.5°	19.6	30.1	39.2	43.6	52.7	69.2	100.9	1393.5	10475.6	12823.3	13545.6
70°	18.1	28.6	34.6	40.6	46.7	58.7	85.8	812.7	8069.3	10767.6	11530.5
72.5°	18.1	27.1	30.1	34.6	40.6	52.7	79.8	439.4	5516.9	8213.7	9199.5
75°	18.1	25.6	27.1	30.1	36.1	48.2	70.7	230.3	3566.6	5706.6	7042.9
77.5°	18.1	24.1	27.1	28.6	34.6	42.1	61.7	144.5	2376.2	3997.1	4760.0
80°	19.6	24.1	25.6	28.6	33.1	39.2	51.1	96.3	1396.6	2404.8	2896.9
82.5°	21.1	24.1	27.1	30.1	34.6	37.6	45.2	60.2	644.1	1590.7	1799.9
85°	22.6	25.6	28.6	31.6	36.1	37.6	42.1	43.6	105.3	717.9	970.7
87.5°	24.1	27.1	30.1	33.1	39.2	39.2	39.2	39.2	36.1	76.7	195.7
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: P646955

CATALOG NUMBER: GALN-SA5C-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3
2.5°	7383.1	7553.1	7672.0	7702.1	7616.3	7577.2	7468.8	7300.3	7198.0	7193.4
5°	7780.4	8179.1	8456.0	8502.7	8337.1	8057.2	7724.7	7295.8	7044.4	6969.2
7.5°	7712.6	8410.9	8856.4	8921.0	8642.7	8108.4	7464.3	6773.6	6499.7	6383.8
10°	7434.2	8286.0	8922.6	9024.9	8653.2	7900.7	7082.1	6311.5	5971.5	5882.7
12.5°	7196.5	8057.2	8623.1	8764.6	8483.1	7732.2	6853.3	6015.1	5650.9	5568.1
15°	7092.6	7786.4	8132.5	8204.7	8158.1	7626.8	6829.2	5970.0	5553.1	5462.8
17.5°	7196.5	7556.1	7599.7	7673.5	7777.3	7616.3	7061.0	6215.2	5765.3	5653.9
20°	7468.8	7356.0	7175.4	7207.0	7444.8	7659.9	7473.3	6758.5	6210.8	6091.8
22.5°	7932.3	7306.3	6897.0	6869.9	7170.9	7806.0	8078.3	7494.4	6859.3	6741.9
25°	8501.2	7431.2	6794.6	6735.9	7064.0	8019.6	8735.9	8395.9	7702.1	7523.0
27.5°	9121.2	7690.1	6794.6	6737.5	7055.0	8209.2	9298.8	9193.4	8574.9	8379.3
30°	9461.3	7903.8	6892.4	6827.8	7166.3	8319.1	9599.7	9902.3	9231.1	8988.8
32.5°	9765.3	8200.2	7083.6	6961.7	7399.6	8481.6	9869.2	10504.2	9753.3	9590.7
35°	10045.2	8517.7	7347.0	7205.5	7706.6	8704.4	10167.1	11136.3	10480.1	10234.8
37.5°	10353.8	8886.4	7757.8	7637.4	8219.8	9137.8	10520.8	11967.0	11194.9	10886.4
40°	10689.3	9313.9	8433.5	8382.3	9035.4	9628.4	10967.7	12853.3	12010.6	11660.0
42.5°	11030.9	9806.0	9261.2	9345.4	9959.4	10316.1	11426.7	13535.1	12678.8	12292.0
45°	11341.0	10435.0	10337.2	10754.0	11036.9	10987.3	11766.8	14015.2	13261.2	12891.0
47.5°	11732.2	11351.5	11638.9	12281.5	12289.0	11717.2	12024.1	14407.9	13762.3	13392.1
50°	12170.2	12433.5	13319.9	13974.5	13798.4	12435.0	12325.1	14872.9	14280.0	13983.5
52.5°	12677.3	13644.9	14872.9	15599.8	15188.9	13217.6	12826.2	15375.6	15101.7	14817.3
55°	13267.2	14471.2	16421.5	17000.9	16587.0	14189.8	13587.8	16057.3	16030.2	15836.1
57.5°	13933.9	15344.0	17318.4	18102.5	17733.8	15330.4	14651.7	16699.9	16597.6	16489.2
59°	14460.6	15792.4	17714.2	18526.9	18304.1	16129.6	15366.5	17100.2	16728.5	16565.9
60°	14779.7	16096.4	17860.2	18584.0	18532.9	16605.1	15819.5	17295.8	16727.0	16501.3
62.5°	15726.2	16627.6	17804.5	18329.7	18529.9	17517.0	17148.3	17511.0	16417.0	16085.9
65°	16063.3	16451.6	16882.0	16817.3	16988.8	17470.4	17997.1	17274.8	15754.8	15283.8
67.5°	15407.2	14520.8	14672.8	14240.9	14156.6	15532.1	17652.5	16119.0	14459.1	13882.7
70°	12987.3	11124.2	11047.5	11246.2	10701.3	12575.0	15851.1	13893.2	12320.7	11667.5
72.5°	10222.8	7861.6	7214.5	7945.9	7929.4	9593.8	13167.9	9858.6	8323.6	8267.9
75°	8039.2	5473.3	4803.6	4922.6	5151.3	6945.1	10487.7	6260.4	5125.7	4671.2
77.5°	5396.6	3878.1	3617.8	3471.8	3718.6	4459.0	6635.1	3395.1	2874.4	2722.3
80°	3110.6	2817.2	3199.4	2904.5	3036.9	2809.6	3300.3	1557.5	1292.7	1399.5
82.5°	2024.1	1604.2	1709.6	1270.1	1736.7	1751.7	1059.5	460.5	389.8	413.8
85°	1265.6	752.5	422.9	301.0	598.9	1101.6	331.1	28.6	33.1	28.6
87.5°	328.1	124.9	52.7	78.2	96.3	85.8	76.7	4.5	1.5	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)