

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: P646951

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
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-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT 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 III - Short
BUG Rating: B2 - U0 - G3

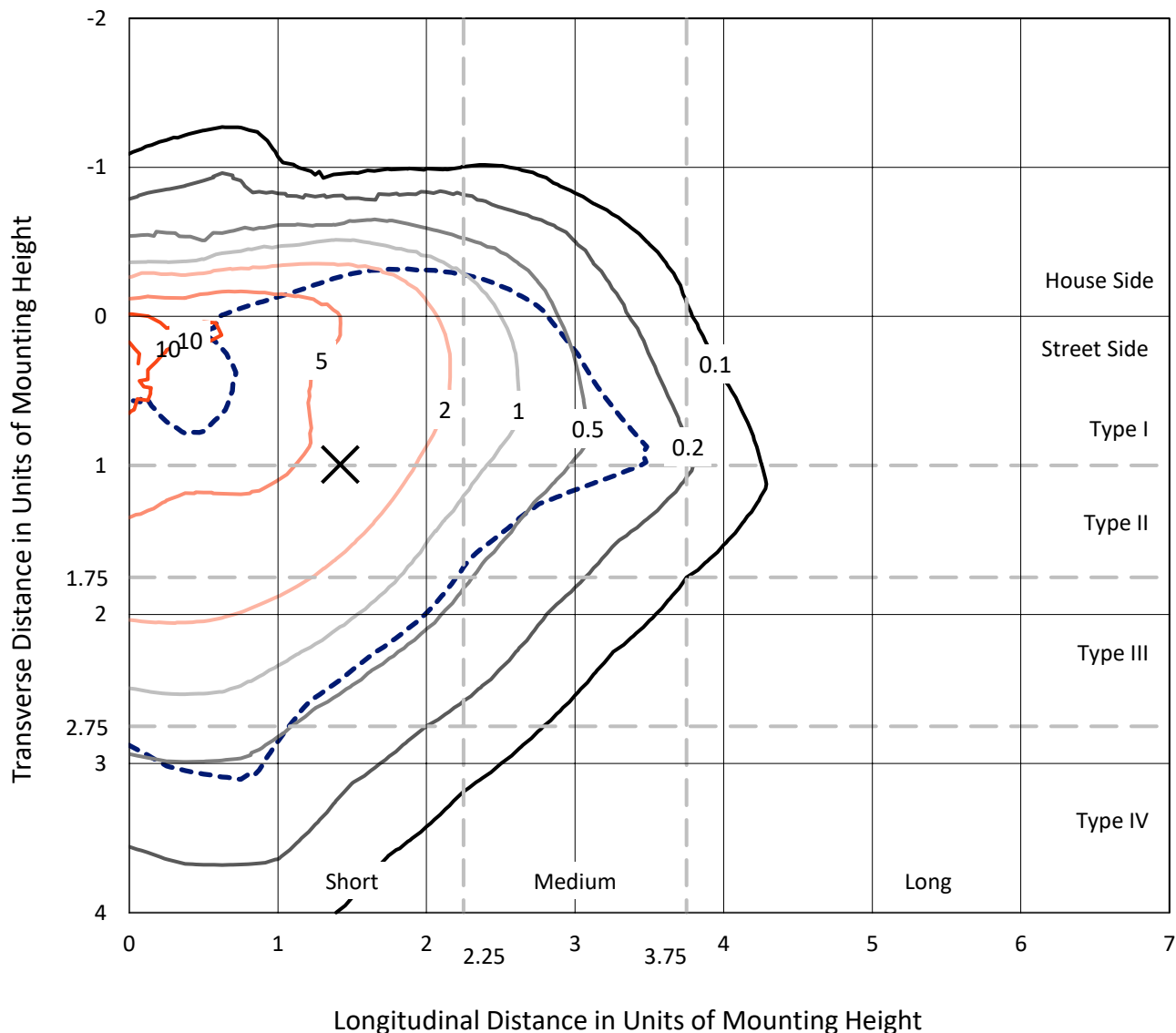
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646951
 CATALOG NUMBER: GALN-SA5C-835-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

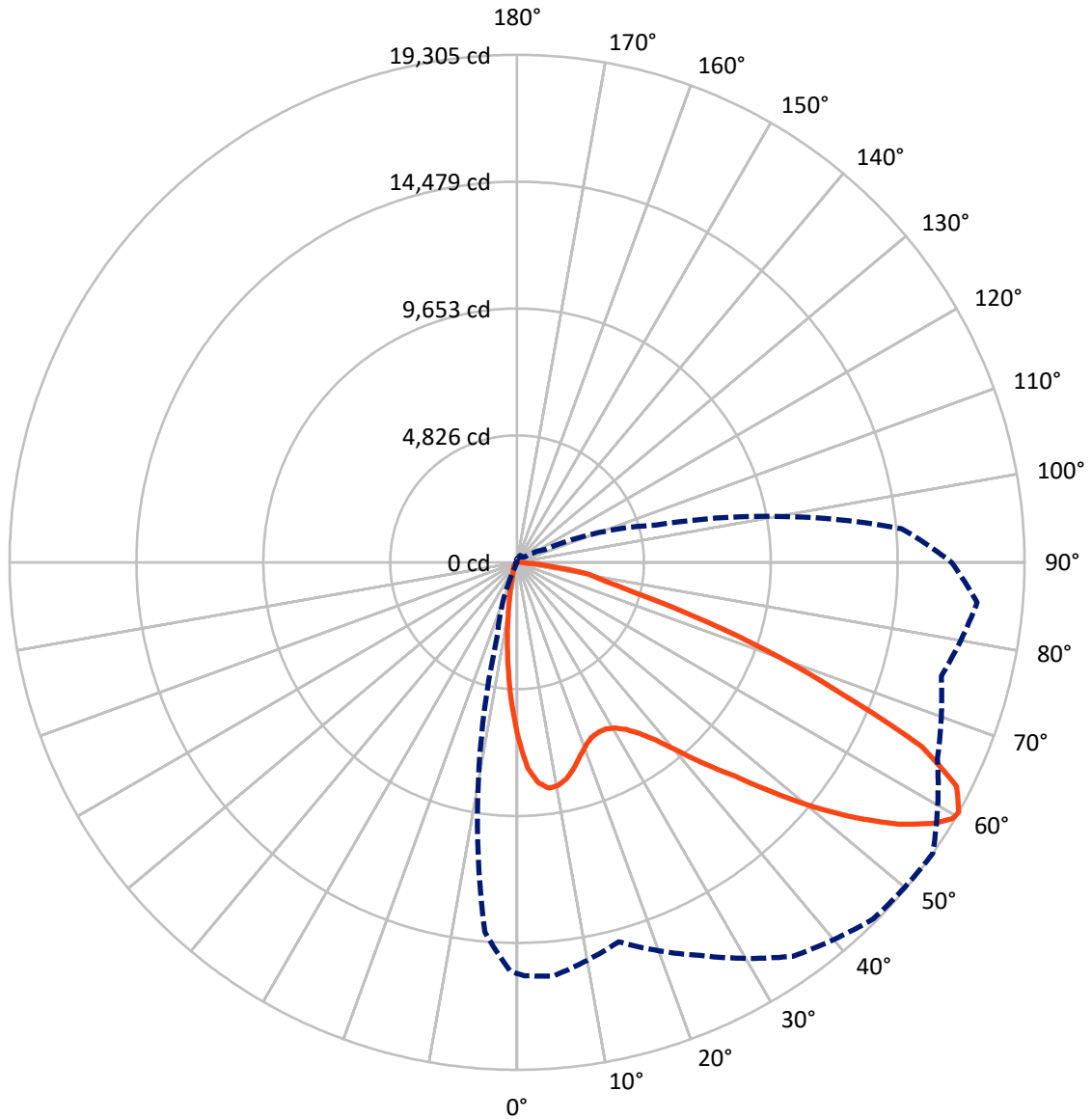
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Short - N/A

REPORT NUMBER: P646951
CATALOG NUMBER: GALN-SA5C-835-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P646951
 CATALOG NUMBER: GALN-SA5C-835-U-SLL-HSS

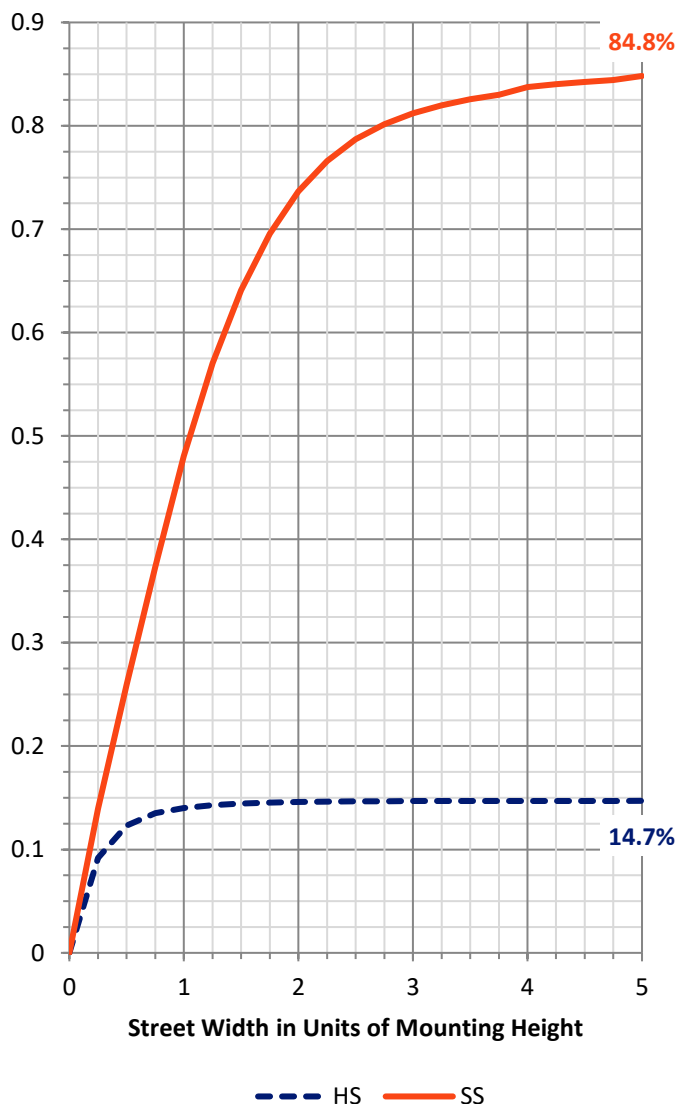
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2938.1	0.0	2938.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	16859.3	0.0	16859.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	19797.4	0.0	19797.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.4	2.5
10°-20°	977.5	4.9
20°-30°	1446.9	7.3
30°-40°	2156.7	10.9
40°-50°	3158.6	16.0
50°-60°	4560.0	23.0
60°-70°	4796.9	24.2
70°-80°	1973.3	10.0
80°-90°	231.1	1.2
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



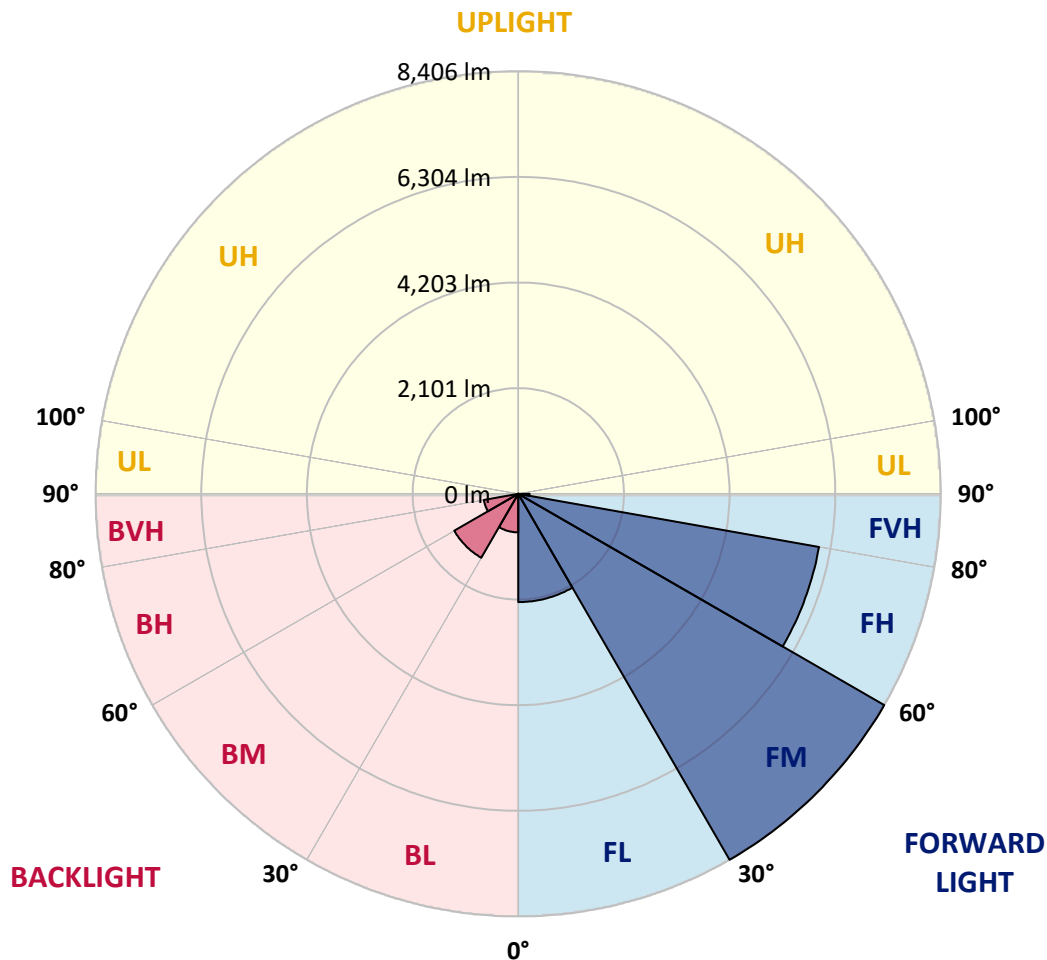
REPORT NUMBER: P646951
 CATALOG NUMBER: GALN-SA5C-835-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2154.2	10.9			
FM (30°-60°)	8406.0	42.5			
FH (60°-80°)	6074.7	30.7			G3/7500
FVH (80°-90°)	224.3	1.1			G2/225
BL (0°-30°)	766.6	3.9	B2/1000		
BM (30°-60°)	1469.3	7.4	B2/2500		
BH (60°-80°)	695.4	3.5	B2/1000		G2/1000
BVH (80°-90°)	6.8	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-G3

Type III Short





REPORT NUMBER: P646951

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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3
2.5°	7323.6	7311.3	7419.6	7596.3	7774.6	7867.5	7849.3	7841.7	7693.8	7585.6	7358.6
5°	7308.3	7370.8	7564.3	8042.8	8405.4	8580.7	8632.5	8414.6	8126.6	7709.0	7194.0
7.5°	6871.0	6948.7	7264.1	8012.3	8656.9	9037.9	9024.2	8675.2	8080.9	7434.7	6700.3
10°	6328.4	6419.9	6790.2	7698.4	8535.0	9037.9	9065.3	8623.3	7884.3	7055.4	6282.8
12.5°	5946.0	6054.2	6464.1	7405.8	8221.1	8716.4	8748.3	8428.3	7736.5	6909.0	6055.7
15°	5816.4	5918.5	6334.5	7258.0	7887.3	8154.0	8146.4	8112.9	7678.6	6944.1	6067.9
17.5°	6039.0	6122.7	6592.1	7325.0	7575.0	7547.6	7587.2	7748.6	7690.8	7238.2	6451.9
20°	6613.5	6698.8	7203.1	7530.7	7335.7	7162.0	7180.3	7450.0	7803.5	7791.3	7052.3
22.5°	7404.3	7549.1	8006.2	7930.0	7303.7	6922.7	6884.7	7235.2	7995.5	8428.3	7863.0
25°	8405.4	8551.8	8908.3	8567.0	7460.7	6866.4	6831.4	7169.6	8228.7	9050.1	8775.7
27.5°	9246.6	9357.9	9712.9	9187.2	7692.3	6890.8	6832.8	7178.8	8417.6	9578.8	9545.3
30°	9920.1	10002.4	10211.2	9476.7	7891.9	6997.4	6930.4	7312.9	8501.4	9836.4	10168.5
32.5°	10462.6	10601.3	10666.8	9786.0	8178.4	7198.6	7084.3	7570.4	8705.6	10154.8	10822.2
35°	11082.8	11242.9	11159.0	10081.7	8556.3	7512.5	7372.3	7987.9	9015.0	10448.9	11581.1
37.5°	11869.1	12053.5	11725.9	10392.5	8955.6	7984.9	7919.3	8574.6	9484.3	10869.5	12394.8
40°	12682.9	12789.5	12276.0	10770.5	9446.3	8672.1	8734.6	9446.3	10098.4	11373.9	13260.4
42.5°	13318.3	13418.9	12841.4	11087.4	9947.5	9487.4	9748.0	10497.7	10802.4	11890.5	13906.5
45°	13804.4	13889.7	13232.9	11433.3	10624.1	10668.4	11160.6	11581.1	11508.0	12205.9	14404.8
47.5°	14182.3	14255.5	13534.7	11805.1	11637.5	12112.9	12865.7	13044.0	12239.4	12547.3	14855.9
50°	14337.7	14359.0	13629.1	12279.0	12788.0	13953.8	14738.5	14630.3	13077.5	12926.6	15335.8
52.5°	14540.4	14535.8	13898.9	12730.1	13869.9	15599.5	16382.7	16137.4	14025.3	13495.1	15875.2
55°	15072.2	15078.3	14476.4	13370.1	14791.8	16928.2	17766.3	17588.1	15025.0	14455.0	16504.6
57.5°	15718.3	15741.2	15297.8	14118.3	15672.6	17891.3	18799.5	18730.9	16376.6	15523.3	17098.9
59°	15802.1	15847.8	15686.3	14645.5	16195.3	18186.9	19153.0	19220.1	17100.4	16227.3	17420.4
60°	15649.7	15725.9	15799.1	14944.2	16501.6	18293.6	19174.3	19305.4	17644.4	16705.8	17566.8
62.5°	14985.4	15105.7	15473.0	15863.1	16884.1	17961.4	18493.2	18767.5	18318.0	17963.0	17580.5
65°	14115.2	14177.7	14708.0	16026.1	16141.9	16410.1	16574.7	16926.7	17508.8	18447.5	16951.1
67.5°	12689.0	12873.3	13522.5	15079.9	13952.2	13635.2	13594.1	13243.6	14755.2	17292.5	15399.8
70°	10482.4	10564.7	11364.8	12362.9	10529.7	10042.1	10237.1	10106.0	11437.9	14886.3	12394.8
72.5°	7926.9	8112.9	8894.6	9854.6	7165.1	6532.6	7070.6	7021.8	8591.4	11963.6	8515.2
75°	5639.7	5760.1	6756.7	7712.1	5018.0	4251.5	4445.0	4626.4	5997.8	9446.3	5031.7
77.5°	3875.1	3978.7	4726.9	5100.2	3660.2	3506.4	3207.6	3382.9	3930.0	5604.6	2738.3
80°	2337.6	2332.9	2825.2	2916.6	2549.4	2960.8	2483.8	2788.6	2375.6	2398.5	1060.6
82.5°	1517.8	1502.5	1728.0	1883.4	1418.7	1491.8	1001.1	1443.1	1548.2	669.0	335.3
85°	679.6	708.6	830.4	1095.7	621.7	330.7	204.2	443.4	659.8	336.8	0.0
87.5°	70.1	54.9	146.3	266.7	85.3	9.2	30.5	15.3	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: P646951

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3
2.5°	7253.5	7165.1	6901.4	6654.6	6442.8	6183.7	6016.1	5752.5	5592.5	5543.7	5551.3
5°	6962.4	6707.9	6206.5	5805.8	5359.3	5104.8	4717.8	4346.0	4144.8	4070.2	4036.6
7.5°	6352.9	6080.1	5475.1	4845.8	4367.3	3920.8	3632.8	3305.2	3081.2	2896.8	2864.8
10°	5900.3	5542.2	4792.4	4115.8	3738.0	3402.7	3114.7	2787.1	2523.5	2313.1	2255.3
12.5°	5629.1	5228.2	4391.7	3824.8	3466.7	3122.4	2747.5	2368.0	2098.3	1871.3	1766.1
15°	5580.3	5115.5	4278.9	3616.1	3174.1	2758.1	2259.8	1849.9	1572.6	1357.7	1292.2
17.5°	5874.4	5318.1	4262.2	3398.1	2791.6	2202.0	1683.8	1344.0	1031.6	911.3	864.0
20°	6398.6	5676.3	4260.6	3145.2	2398.5	1696.1	1182.5	876.2	749.7	691.8	664.4
22.5°	7113.2	6163.9	4341.4	2927.2	1990.2	1251.1	844.2	697.9	624.8	577.5	566.9
25°	7986.4	6886.2	4539.5	2779.5	1677.7	981.3	696.4	597.4	536.4	515.1	505.9
27.5°	8762.0	7578.0	4757.4	2627.1	1453.7	868.6	646.1	547.1	498.3	481.5	467.8
30°	9431.0	8205.8	4862.5	2426.0	1273.9	795.4	655.2	585.1	521.2	470.9	448.0
32.5°	9988.7	8687.4	4931.1	2243.1	1121.6	650.7	518.1	452.6	423.6	405.4	390.1
35°	10686.6	9208.5	4890.0	2139.5	1043.8	592.8	472.4	390.1	341.3	304.7	289.6
37.5°	11418.1	9729.6	4818.3	2054.1	1008.7	550.1	449.5	370.3	317.0	278.8	259.0
40°	12175.4	10212.7	4734.6	1974.9	976.8	522.7	435.8	353.5	300.2	259.0	237.7
42.5°	12868.8	10683.6	4701.1	1923.0	925.0	527.3	425.2	345.9	283.4	240.8	222.5
45°	13429.5	11130.0	4746.7	1895.6	868.6	519.6	428.2	336.8	269.7	228.6	210.3
47.5°	14028.4	11760.9	4894.5	1868.2	813.7	483.0	451.1	335.3	263.6	221.0	201.2
50°	14724.8	12568.6	5232.9	1801.1	746.7	443.4	480.0	333.7	256.0	211.8	192.0
52.5°	15652.8	13485.9	5581.8	1683.8	649.2	405.4	458.7	329.2	240.8	201.2	181.3
55°	16486.3	14452.0	5877.4	1545.2	525.7	350.5	413.0	309.4	214.9	182.8	164.6
57.5°	16830.7	14997.6	5868.3	1353.2	420.5	307.8	339.8	283.4	187.5	161.5	146.3
59°	16704.2	14929.0	5671.7	1211.5	384.0	284.9	281.9	280.4	175.2	146.3	134.1
60°	16525.9	14679.1	5459.9	1141.4	361.1	269.7	259.0	277.3	164.6	137.2	125.0
62.5°	15843.3	13642.8	4757.4	1022.5	330.7	228.6	207.3	234.7	146.3	118.9	108.2
65°	14854.3	12050.4	4027.5	988.9	321.5	188.9	172.2	167.6	125.0	100.5	91.5
67.5°	12925.1	10197.5	3262.5	966.1	324.6	158.5	150.9	126.5	103.6	83.8	77.8
70°	10348.4	7951.4	2671.3	940.2	327.6	129.5	126.5	100.5	83.8	70.1	64.0
72.5°	6287.3	4713.2	2102.9	816.7	318.4	103.6	112.8	76.2	60.9	50.3	47.2
75°	3887.3	3226.0	1304.4	635.4	210.3	76.2	79.2	47.2	41.1	32.0	32.0
77.5°	2252.2	2037.4	466.3	228.6	92.9	45.7	35.1	24.4	22.9	13.7	13.7
80°	934.1	748.2	161.5	77.8	50.3	21.3	7.6	1.5	0.0	0.0	0.0
82.5°	272.8	242.3	44.2	35.1	15.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3
2.5°	5421.8	5371.5	5348.7	5426.3	5354.8	5446.2	5376.1	5406.5	5496.4	5536.0	5638.1
5°	4058.0	4006.1	3981.8	4099.1	4093.0	4150.9	4144.8	4198.1	4243.9	4141.8	4246.9
7.5°	2826.7	2791.6	2849.6	2941.0	3038.5	3006.5	3006.5	2934.9	2959.3	2944.1	2939.5
10°	2150.1	2029.8	1999.2	1996.3	2032.8	2040.4	1999.2	1900.2	1936.8	1947.5	2011.4
12.5°	1691.4	1598.5	1456.8	1392.8	1376.0	1389.7	1254.1	1167.2	1208.4	1184.1	1246.5
15°	1212.9	1136.8	1053.0	981.3	961.5	934.1	786.3	682.7	670.5	675.0	685.8
17.5°	865.5	813.7	813.7	737.5	696.4	614.1	539.4	493.8	489.1	493.8	501.4
20°	638.5	611.1	608.0	588.2	542.5	487.7	435.8	426.7	423.6	431.3	434.3
22.5°	550.1	521.2	496.7	495.2	452.6	406.8	382.5	370.3	371.8	374.9	382.5
25°	492.2	461.7	435.8	420.5	390.1	358.1	335.3	329.2	329.2	333.7	335.3
27.5°	451.1	413.0	390.1	368.8	341.3	313.9	294.1	289.6	286.5	289.6	297.1
30°	422.1	384.0	355.1	323.1	301.7	275.9	259.0	253.0	251.4	253.0	259.0
32.5°	361.1	338.3	315.5	286.5	260.6	243.8	225.5	214.9	214.9	217.9	224.0
35°	272.8	260.6	259.0	251.4	230.1	211.8	190.5	179.8	179.8	185.9	188.9
37.5°	240.8	217.9	214.9	211.8	202.6	178.3	158.5	149.3	147.8	152.4	158.5
40°	219.4	193.6	179.8	176.8	178.3	150.9	129.5	120.3	120.3	121.9	128.0
42.5°	202.6	172.2	147.8	144.8	150.9	126.5	105.2	96.0	96.0	96.0	103.6
45°	188.9	153.9	125.0	109.7	118.9	103.6	85.3	76.2	73.1	76.2	79.2
47.5°	179.8	140.2	109.7	88.4	88.4	82.3	68.6	57.9	54.9	56.4	60.9
50°	172.2	128.0	92.9	71.6	64.0	65.5	51.8	44.2	41.1	41.1	45.7
52.5°	160.0	115.8	80.7	60.9	48.8	44.2	38.1	32.0	30.5	32.0	35.1
55°	144.8	105.2	70.1	50.3	38.1	30.5	27.4	22.9	21.3	22.9	27.4
57.5°	128.0	88.4	56.4	39.6	25.9	19.8	18.3	15.3	12.2	13.7	16.8
59°	117.4	79.2	48.8	32.0	19.8	13.7	13.7	10.6	7.6	9.2	13.7
60°	112.8	73.1	41.1	27.4	16.8	10.6	10.6	7.6	4.5	6.1	10.6
62.5°	96.0	60.9	32.0	16.8	7.6	1.5	4.5	1.5	0.0	1.5	4.5
65°	80.7	48.8	21.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	1.5
67.5°	67.0	36.6	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	53.3	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	36.6	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P646951
 CATALOG NUMBER: GALN-SA5C-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3	6703.3
2.5°	5644.3	5862.2	5996.3	6249.2	6508.3	6707.9	6957.8	7181.8	7274.8	7323.6
5°	4353.6	4656.8	4914.3	5299.9	5658.0	6093.8	6535.7	7056.9	7256.5	7308.3
7.5°	3055.3	3364.6	3634.4	4080.8	4591.3	5174.9	5836.2	6497.6	6788.7	6871.0
10°	2206.5	2537.2	2866.3	3312.8	3789.8	4422.1	5111.0	5929.3	6264.5	6328.4
12.5°	1392.8	1747.8	2282.7	2834.3	3338.7	3847.7	4568.4	5458.4	5828.7	5946.0
15°	807.7	1072.8	1476.6	2195.8	2837.4	3510.9	4297.2	5281.6	5696.1	5816.4
17.5°	541.0	632.4	909.7	1459.8	2307.1	3200.0	4228.7	5426.3	5885.0	6039.0
20°	455.6	496.7	594.3	889.9	1776.8	2922.7	4246.9	5819.5	6421.5	6613.5
22.5°	400.7	438.9	501.4	640.0	1240.4	2578.3	4333.7	6381.8	7159.0	7404.3
25°	353.5	391.7	446.5	530.3	833.5	2180.6	4524.3	7204.7	8135.8	8405.4
27.5°	313.9	349.0	396.2	467.8	641.5	1737.2	4693.4	8006.2	9027.2	9246.6
30°	277.3	306.3	352.0	406.8	533.4	1339.5	4778.7	8707.2	9676.3	9920.1
32.5°	240.8	268.2	312.4	356.6	438.9	1021.0	4719.3	9222.3	10307.2	10462.6
35°	205.7	234.7	271.2	312.4	379.4	824.4	4422.1	9801.3	10960.9	11082.8
37.5°	176.8	201.2	239.2	271.2	342.9	659.8	4062.5	10322.4	11693.9	11869.1
40°	149.3	173.7	211.8	240.8	315.5	519.6	3738.0	10901.5	12466.5	12682.9
42.5°	121.9	150.9	184.4	231.6	271.2	396.2	3344.8	11370.8	13047.1	13318.3
45°	97.6	129.5	166.1	230.1	236.2	301.7	2965.4	11736.5	13560.5	13804.4
47.5°	77.8	109.7	160.0	214.9	193.6	239.2	2749.0	12119.0	13987.3	14182.3
50°	62.5	91.5	167.6	188.9	161.5	202.6	2742.9	12545.7	14208.2	14337.7
52.5°	50.3	74.7	141.7	144.8	137.2	178.3	2907.4	13025.7	14433.7	14540.4
55°	42.7	62.5	92.9	106.6	123.4	161.5	3030.9	13764.7	14971.7	15072.2
57.5°	33.5	53.3	71.6	85.3	109.7	147.8	3047.7	14334.7	15652.8	15718.3
59°	29.0	45.7	64.0	76.2	100.5	138.7	2979.1	14369.7	15697.0	15802.1
60°	24.4	41.1	56.4	71.6	92.9	131.1	2904.5	14115.2	15532.4	15649.7
62.5°	18.3	32.0	41.1	57.9	76.2	112.8	2550.9	13226.8	14903.1	14985.4
65°	12.2	22.9	30.5	42.7	59.4	97.6	2078.5	12074.9	13930.9	14115.2
67.5°	7.6	16.8	24.4	32.0	48.8	82.3	1481.2	10354.5	12570.1	12689.0
70°	4.5	10.6	18.3	25.9	38.1	65.5	879.2	8184.5	10458.1	10482.4
72.5°	3.1	7.6	12.2	18.3	30.5	59.4	426.7	5335.0	7635.9	7926.9
75°	1.5	4.5	7.6	13.7	24.4	48.8	204.2	3564.2	5555.9	5639.7
77.5°	0.0	1.5	4.5	9.2	18.3	38.1	118.9	2340.6	3788.2	3875.1
80°	0.0	0.0	3.1	7.6	13.7	24.4	71.6	1380.6	2294.9	2337.6
82.5°	0.0	0.0	1.5	6.1	9.2	18.3	36.6	606.5	1502.5	1517.8
85°	0.0	0.0	1.5	6.1	7.6	12.2	13.7	82.3	667.4	679.6
87.5°	0.0	0.0	1.5	7.6	7.6	7.6	7.6	4.5	56.4	70.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)