

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: P647941

Luminaire Tested: **GALN-SA5A-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647941
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-SA5A-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA 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: 12878 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

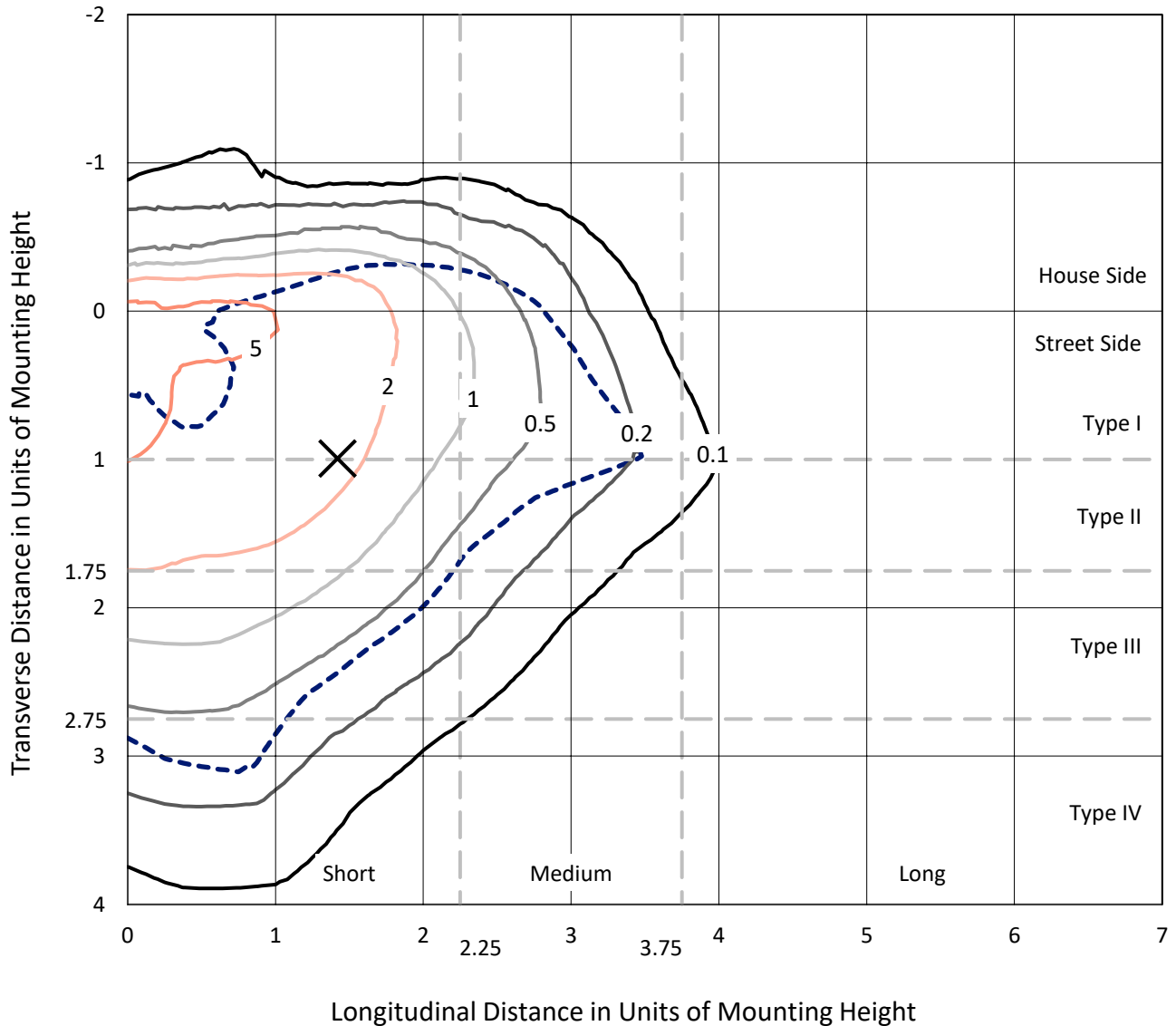
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

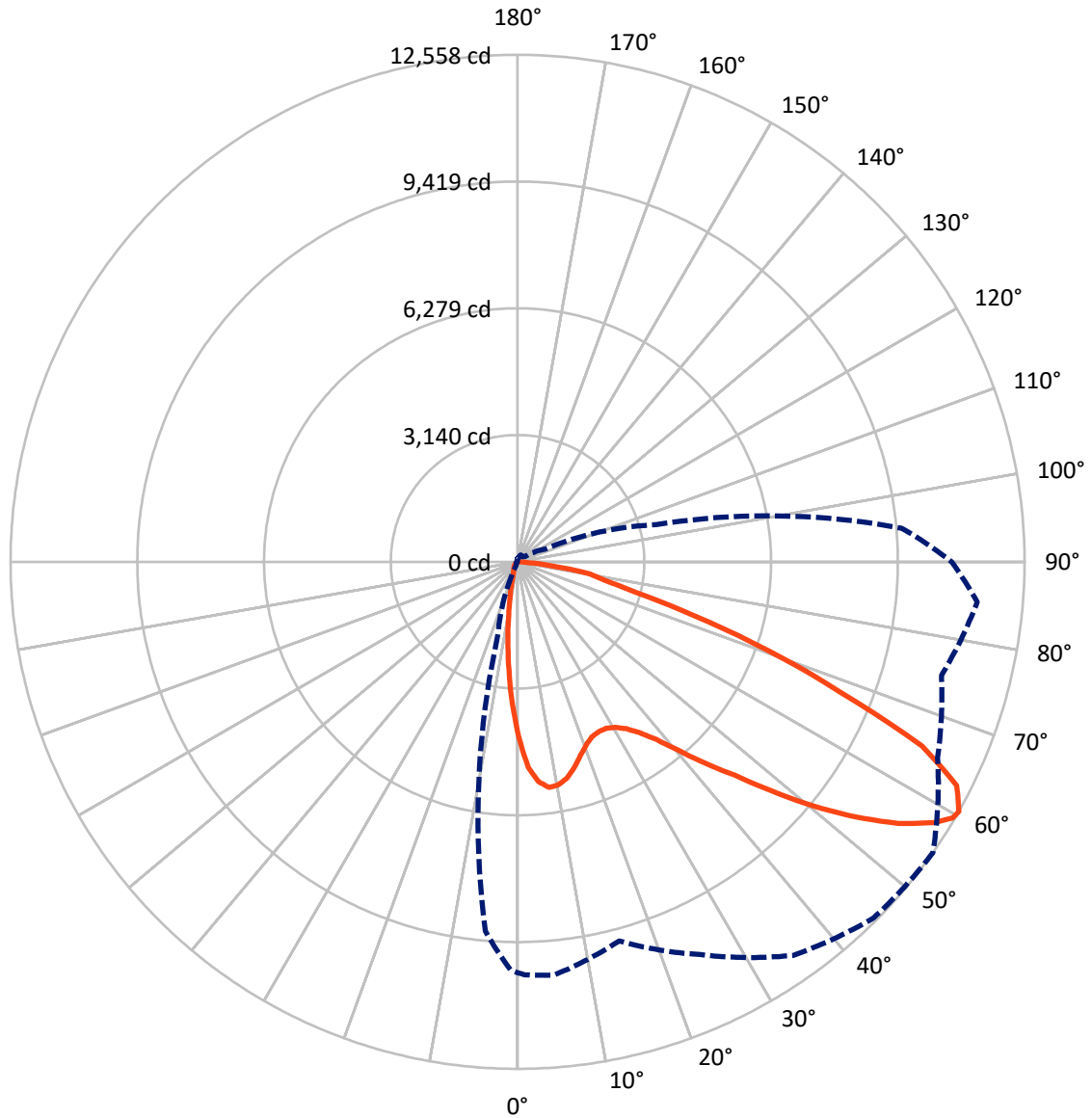
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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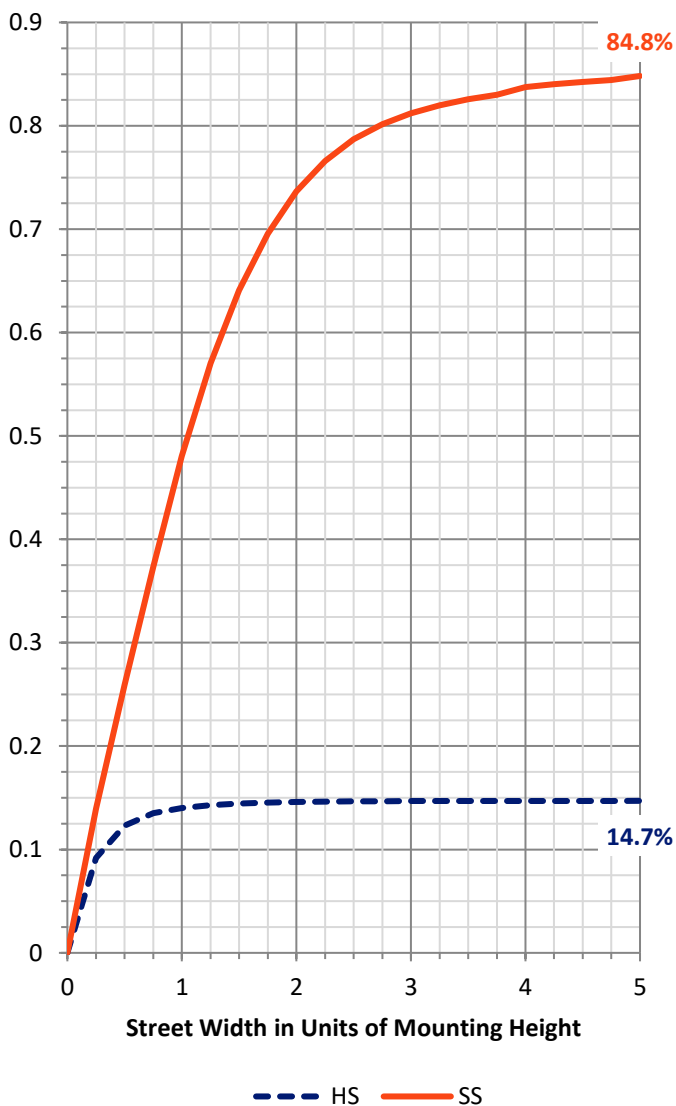
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1911.2	0.0	1911.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	10966.8	0.0	10966.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	12878.0	0.0	12878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.9	2.5
10°-20°	635.9	4.9
20°-30°	941.2	7.3
30°-40°	1402.9	10.9
40°-50°	2054.6	16.0
50°-60°	2966.2	23.0
60°-70°	3120.3	24.2
70°-80°	1283.6	10.0
80°-90°	150.3	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°	12878.0	100.0
0°-180°	12878.0	100.0

Coefficient of Utilization

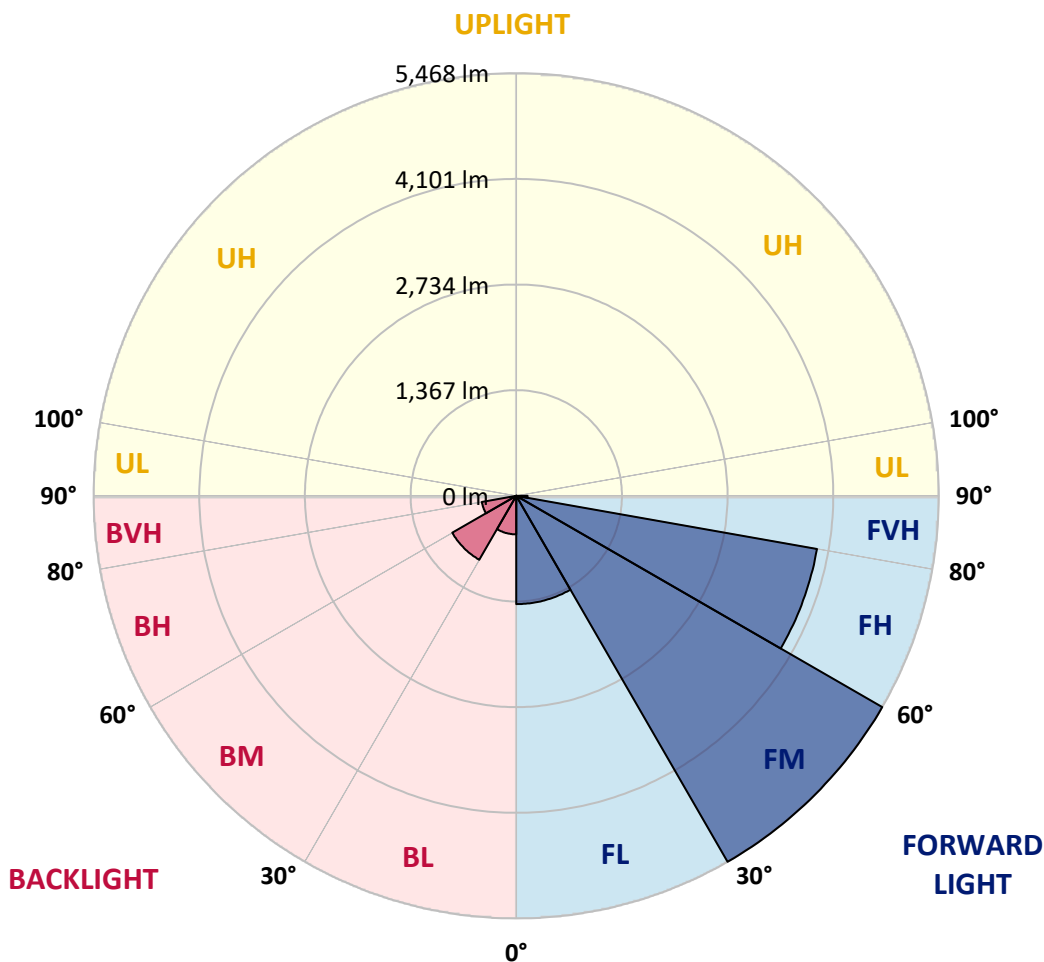


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1401.3	10.9			
FM (30°-60°)	5468.0	42.5			
FH (60°-80°)	3951.5	30.7			G2/5000
FVH (80°-90°)	145.9	1.1			G2/225
BL (0°-30°)	498.6	3.9	B1/500		
BM (30°-60°)	955.8	7.4	B1/1000		
BH (60°-80°)	452.4	3.5	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: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4
2.5°	4763.9	4755.9	4826.3	4941.4	5057.3	5117.8	5105.9	5100.9	5004.8	4934.4	4786.7
5°	4754.0	4794.6	4920.5	5231.8	5467.7	5581.7	5615.4	5473.6	5286.3	5014.6	4679.6
7.5°	4469.5	4520.0	4725.2	5212.0	5631.3	5879.0	5870.1	5643.1	5256.5	4836.3	4358.5
10°	4116.6	4176.1	4417.0	5007.8	5551.9	5879.0	5896.9	5609.4	5128.7	4589.4	4086.9
12.5°	3867.8	3938.2	4204.9	4817.4	5347.7	5669.9	5690.7	5482.6	5032.5	4494.3	3939.2
15°	3783.5	3849.9	4120.5	4721.3	5130.7	5304.1	5299.2	5277.3	4994.8	4517.0	3947.1
17.5°	3928.3	3982.8	4288.1	4764.9	4927.4	4909.6	4935.4	5040.4	5002.7	4708.4	4196.9
20°	4302.0	4357.5	4685.6	4898.7	4771.8	4658.8	4670.8	4846.1	5076.1	5068.2	4587.4
22.5°	4816.4	4910.6	5208.0	5158.4	4751.0	4503.2	4478.4	4706.4	5201.0	5482.6	5114.8
25°	5467.7	5562.8	5794.7	5572.8	4853.1	4466.5	4443.7	4663.8	5352.7	5887.0	5708.5
27.5°	6014.8	6087.2	6318.2	5976.2	5003.8	4482.4	4444.7	4669.7	5475.6	6231.0	6209.1
30°	6452.9	6506.5	6642.3	6164.5	5133.6	4551.7	4508.1	4757.0	5530.1	6398.4	6614.5
32.5°	6805.8	6896.0	6938.6	6365.7	5319.9	4682.6	4608.3	4924.4	5663.0	6605.6	7039.8
35°	7209.2	7313.4	7258.8	6558.0	5565.8	4886.8	4795.6	5196.1	5864.2	6796.9	7533.4
37.5°	7720.8	7840.7	7627.6	6760.3	5825.5	5194.1	5151.4	5577.7	6169.5	7070.5	8062.7
40°	8250.1	8319.5	7985.4	7006.0	6144.7	5641.1	5681.8	6144.7	6568.9	7398.6	8625.8
42.5°	8663.4	8728.8	8353.2	7212.2	6470.8	6171.4	6341.0	6828.6	7026.9	7734.6	9046.0
45°	8979.6	9035.1	8607.9	7437.2	6910.9	6939.7	7259.8	7533.4	7485.8	7939.8	9370.2
47.5°	9225.5	9273.1	8804.2	7679.1	7570.1	7879.3	8369.0	8485.0	7961.6	8161.8	9663.6
50°	9326.5	9340.4	8865.6	7987.4	8318.4	9076.8	9587.3	9516.9	8506.8	8408.6	9975.8
52.5°	9458.4	9455.4	9041.1	8280.8	9022.3	10147.3	10656.8	10497.2	9123.4	8778.4	10326.8
55°	9804.3	9808.3	9416.7	8697.1	9622.0	11011.6	11556.8	11440.9	9773.6	9402.9	10736.1
57.5°	10224.6	10239.5	9951.1	9183.8	10194.9	11638.1	12228.9	12184.3	10652.9	10097.7	11122.7
59°	10279.1	10308.9	10203.8	9526.8	10534.9	11830.4	12458.9	12502.5	11123.7	10555.7	11331.8
60°	10180.0	10229.6	10277.2	9721.1	10734.1	11899.8	12472.7	12558.0	11477.5	10866.9	11427.0
62.5°	9747.8	9826.2	10065.0	10318.8	10982.9	11683.7	12029.7	12208.1	11915.7	11684.7	11435.9
65°	9181.8	9222.5	9567.4	10424.9	10500.2	10674.6	10781.7	11010.7	11389.4	11999.9	11026.5
67.5°	8254.1	8374.0	8796.2	9809.3	9075.8	8869.6	8842.8	8614.9	9598.2	11248.6	10017.5
70°	6818.8	6872.2	7392.6	8041.9	6849.4	6532.3	6659.1	6573.9	7440.2	9683.4	8062.7
72.5°	5156.4	5277.3	5785.8	6410.3	4660.8	4249.4	4599.3	4567.6	5588.6	7782.2	5539.0
75°	3668.6	3746.9	4395.1	5016.7	3264.2	2765.6	2891.5	3009.4	3901.5	6144.7	3273.1
77.5°	2520.7	2588.1	3074.8	3317.6	2380.9	2280.8	2086.5	2200.5	2556.4	3645.8	1781.2
80°	1520.6	1517.6	1837.8	1897.2	1658.3	1925.9	1615.7	1814.0	1545.3	1560.2	689.9
82.5°	987.3	977.3	1124.1	1225.2	922.8	970.5	651.2	938.7	1007.1	435.2	218.1
85°	442.1	461.0	540.2	712.7	404.4	215.1	132.8	288.5	429.2	219.1	0.0
87.5°	45.6	35.7	95.1	173.4	55.5	6.0	19.8	9.9	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°	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4
2.5°	4718.3	4660.8	4489.3	4328.7	4190.9	4022.4	3913.4	3742.0	3637.8	3606.1	3611.1
5°	4529.0	4363.4	4037.3	3776.6	3486.2	3320.6	3068.9	2827.0	2696.2	2647.6	2625.8
7.5°	4132.4	3955.0	3561.6	3152.1	2840.9	2550.5	2363.1	2150.0	2004.2	1884.4	1863.5
10°	3838.1	3605.2	3117.4	2677.3	2431.5	2213.5	2026.1	1813.0	1641.5	1504.7	1467.0
12.5°	3661.6	3401.0	2856.8	2488.0	2255.0	2031.0	1787.2	1540.4	1364.9	1217.3	1148.8
15°	3629.9	3327.6	2783.4	2352.2	2064.8	1794.2	1470.0	1203.4	1023.0	883.2	840.6
17.5°	3821.2	3459.5	2772.5	2210.5	1815.9	1432.3	1095.3	874.3	671.0	592.7	562.0
20°	4162.2	3692.4	2771.5	2045.9	1560.2	1103.2	769.2	569.9	487.7	450.0	432.2
22.5°	4627.1	4009.6	2824.0	1904.2	1294.5	813.8	549.1	454.0	406.4	375.7	368.7
25°	5195.0	4479.4	2952.9	1808.0	1091.3	638.4	453.0	388.6	348.9	335.0	329.1
27.5°	5699.6	4929.5	3094.7	1708.9	945.6	565.0	420.3	355.9	324.2	313.2	304.3
30°	6134.8	5337.8	3163.0	1578.1	828.6	517.4	426.3	380.6	339.0	306.3	291.4
32.5°	6497.6	5651.1	3207.6	1459.1	729.5	423.3	337.0	294.4	275.5	263.6	253.8
35°	6951.6	5990.0	3180.9	1391.7	679.0	385.6	307.2	253.8	222.1	198.3	188.3
37.5°	7427.4	6329.1	3134.3	1336.2	656.2	357.8	292.5	240.9	206.2	181.4	168.5
40°	7920.0	6643.3	3079.8	1284.7	635.4	340.0	283.5	230.0	195.3	168.5	154.6
42.5°	8371.0	6949.6	3058.0	1250.9	601.7	343.0	276.6	225.0	184.4	156.6	144.7
45°	8735.8	7240.0	3087.7	1233.1	565.0	338.0	278.5	219.1	175.5	148.7	136.8
47.5°	9125.3	7650.4	3183.8	1215.3	529.3	314.2	293.4	218.1	171.5	143.8	130.8
50°	9578.4	8175.7	3403.9	1171.7	485.7	288.5	312.3	217.0	166.5	137.8	124.9
52.5°	10182.0	8772.4	3630.9	1095.3	422.3	263.6	298.4	214.1	156.6	130.8	117.9
55°	10724.2	9400.9	3823.2	1005.1	342.0	228.0	268.6	201.2	139.8	118.9	107.0
57.5°	10948.2	9755.8	3817.3	880.2	273.6	200.2	221.0	184.4	121.9	105.1	95.1
59°	10865.9	9711.2	3689.4	788.0	249.8	185.3	183.4	182.4	114.0	95.1	87.2
60°	10750.0	9548.6	3551.6	742.4	234.9	175.5	168.5	180.4	107.0	89.2	81.3
62.5°	10305.9	8874.5	3094.7	665.2	215.1	148.7	134.8	152.7	95.1	77.3	70.4
65°	9662.6	7838.7	2619.8	643.3	209.1	122.9	112.0	109.1	81.3	65.5	59.5
67.5°	8407.7	6633.3	2122.2	628.4	211.1	103.1	98.1	82.3	67.4	54.5	50.6
70°	6731.5	5172.3	1737.6	611.6	213.1	84.3	82.3	65.5	54.5	45.6	41.7
72.5°	4089.8	3065.9	1367.9	531.3	207.2	67.4	73.4	49.6	39.6	32.7	30.7
75°	2528.6	2098.4	848.5	413.3	136.8	49.6	51.5	30.7	26.8	20.8	20.8
77.5°	1465.1	1325.3	303.3	148.7	60.4	29.8	22.8	15.9	14.9	8.9	8.9
80°	607.6	486.7	105.1	50.6	32.7	13.9	4.9	1.0	0.0	0.0	0.0
82.5°	177.4	157.6	28.7	22.8	9.9	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°	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4
2.5°	3526.8	3494.1	3479.3	3529.8	3483.2	3542.7	3497.1	3516.9	3575.4	3601.2	3667.6
5°	2639.6	2606.0	2590.1	2666.4	2662.4	2700.1	2696.2	2730.9	2760.6	2694.1	2762.6
7.5°	1838.7	1815.9	1853.6	1913.1	1976.5	1955.7	1955.7	1909.1	1925.0	1915.1	1912.1
10°	1398.7	1320.3	1300.5	1298.5	1322.3	1327.3	1300.5	1236.0	1259.8	1266.8	1308.5
12.5°	1100.3	1039.8	947.6	906.0	895.1	904.0	815.8	759.3	786.1	770.2	810.8
15°	789.0	739.5	685.0	638.4	625.5	607.6	511.5	444.0	436.1	439.1	446.1
17.5°	563.1	529.3	529.3	479.7	453.0	399.5	350.9	321.2	318.2	321.2	326.1
20°	415.3	397.5	395.5	382.7	352.9	317.2	283.5	277.6	275.5	280.5	282.5
22.5°	357.8	339.0	323.1	322.1	294.4	264.7	248.8	240.9	241.9	243.8	248.8
25°	320.2	300.4	283.5	273.6	253.8	232.9	218.1	214.1	214.1	217.0	218.1
27.5°	293.4	268.6	253.8	239.9	222.1	204.2	191.3	188.3	186.4	188.3	193.3
30°	274.6	249.8	231.0	210.2	196.3	179.4	168.5	164.5	163.6	164.5	168.5
32.5°	234.9	220.0	205.2	186.4	169.5	158.6	146.7	139.8	139.8	141.7	145.7
35°	177.4	169.5	168.5	163.6	149.7	137.8	123.9	117.0	117.0	120.9	122.9
37.5°	156.6	141.7	139.8	137.8	131.9	116.0	103.1	97.2	96.2	99.1	103.1
40°	142.7	125.9	117.0	115.0	116.0	98.1	84.3	78.3	78.3	79.3	83.2
42.5°	131.9	112.0	96.2	94.2	98.1	82.3	68.4	62.5	62.5	62.5	67.4
45°	122.9	100.1	81.3	71.3	77.3	67.4	55.5	49.6	47.6	49.6	51.5
47.5°	117.0	91.2	71.3	57.5	57.5	53.6	44.6	37.7	35.7	36.6	39.6
50°	112.0	83.2	60.4	46.6	41.7	42.6	33.7	28.7	26.8	26.8	29.8
52.5°	104.1	75.3	52.5	39.6	31.7	28.7	24.7	20.8	19.8	20.8	22.8
55°	94.2	68.4	45.6	32.7	24.7	19.8	17.9	14.9	13.9	14.9	17.9
57.5°	83.2	57.5	36.6	25.8	16.8	12.9	11.9	9.9	7.9	8.9	10.9
59°	76.3	51.5	31.7	20.8	12.9	8.9	8.9	7.0	4.9	6.0	8.9
60°	73.4	47.6	26.8	17.9	10.9	7.0	7.0	4.9	3.0	4.0	7.0
62.5°	62.5	39.6	20.8	10.9	4.9	1.0	3.0	1.0	0.0	1.0	3.0
65°	52.5	31.7	13.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0
67.5°	43.6	23.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	34.7	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	23.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.0	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: P647941

CATALOG NUMBER: GALN-SA5A-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4
2.5°	3671.6	3813.3	3900.5	4065.1	4233.6	4363.4	4526.0	4671.7	4732.1	4763.9
5°	2832.0	3029.2	3196.8	3447.5	3680.5	3963.9	4251.5	4590.4	4720.2	4754.0
7.5°	1987.4	2188.6	2364.1	2654.5	2986.6	3366.3	3796.5	4226.6	4416.0	4469.5
10°	1435.3	1650.4	1864.5	2155.0	2465.2	2876.6	3324.6	3856.9	4075.0	4116.6
12.5°	906.0	1136.9	1484.9	1843.7	2171.8	2502.9	2971.7	3550.6	3791.5	3867.8
15°	525.4	697.8	960.5	1428.3	1845.7	2283.8	2795.3	3435.6	3705.2	3783.5
17.5°	351.9	411.4	591.8	949.6	1500.7	2081.6	2750.7	3529.8	3828.2	3928.3
20°	296.4	323.1	386.6	578.9	1155.8	1901.2	2762.6	3785.6	4177.1	4302.0
22.5°	260.7	285.5	326.1	416.3	806.9	1677.2	2819.1	4151.3	4656.8	4816.4
25°	230.0	254.7	290.4	345.0	542.2	1418.5	2943.0	4686.6	5292.2	5467.7
27.5°	204.2	227.0	257.7	304.3	417.3	1130.0	3053.0	5208.0	5872.1	6014.8
30°	180.4	199.3	228.9	264.7	346.9	871.3	3108.5	5663.9	6294.4	6452.9
32.5°	156.6	174.5	203.2	231.9	285.5	664.1	3069.8	5999.0	6704.8	6805.8
35°	133.8	152.7	176.4	203.2	246.8	536.3	2876.6	6375.7	7130.0	7209.2
37.5°	115.0	130.8	155.7	176.4	223.0	429.2	2642.6	6714.6	7606.8	7720.8
40°	97.2	113.0	137.8	156.6	205.2	338.0	2431.5	7091.3	8109.3	8250.1
42.5°	79.3	98.1	120.0	150.6	176.4	257.7	2175.8	7396.6	8487.0	8663.4
45°	63.4	84.3	108.1	149.7	153.6	196.3	1928.9	7634.5	8821.0	8979.6
47.5°	50.6	71.3	104.1	139.8	125.9	155.7	1788.2	7883.3	9098.5	9225.5
50°	40.6	59.5	109.1	122.9	105.1	131.9	1784.2	8160.9	9242.3	9326.5
52.5°	32.7	48.5	92.2	94.2	89.2	116.0	1891.3	8473.1	9389.0	9458.4
55°	27.7	40.6	60.4	69.4	80.3	105.1	1971.6	8953.8	9738.9	9804.3
57.5°	21.8	34.7	46.6	55.5	71.3	96.2	1982.5	9324.6	10182.0	10224.6
59°	18.9	29.8	41.7	49.6	65.5	90.2	1937.8	9347.4	10210.7	10279.1
60°	15.9	26.8	36.6	46.6	60.4	85.3	1889.3	9181.8	10103.7	10180.0
62.5°	11.9	20.8	26.8	37.7	49.6	73.4	1659.3	8603.9	9694.3	9747.8
65°	7.9	14.9	19.8	27.7	38.7	63.4	1352.1	7854.6	9061.9	9181.8
67.5°	4.9	10.9	15.9	20.8	31.7	53.6	963.5	6735.4	8176.7	8254.1
70°	3.0	7.0	11.9	16.8	24.7	42.6	572.0	5323.9	6802.9	6818.8
72.5°	2.0	4.9	7.9	11.9	19.8	38.7	277.6	3470.3	4967.1	5156.4
75°	1.0	3.0	4.9	8.9	15.9	31.7	132.8	2318.5	3614.0	3668.6
77.5°	0.0	1.0	3.0	6.0	11.9	24.7	77.3	1522.5	2464.2	2520.7
80°	0.0	0.0	2.0	4.9	8.9	15.9	46.6	898.0	1492.8	1520.6
82.5°	0.0	0.0	1.0	4.0	6.0	11.9	23.8	394.5	977.3	987.3
85°	0.0	0.0	1.0	4.0	4.9	7.9	8.9	53.6	434.2	442.1
87.5°	0.0	0.0	1.0	4.9	4.9	4.9	4.9	3.0	36.6	45.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)