

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: P647395

Luminaire Tested: **GALN-SA4D-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647395
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-SA4D-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA 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: 17208 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

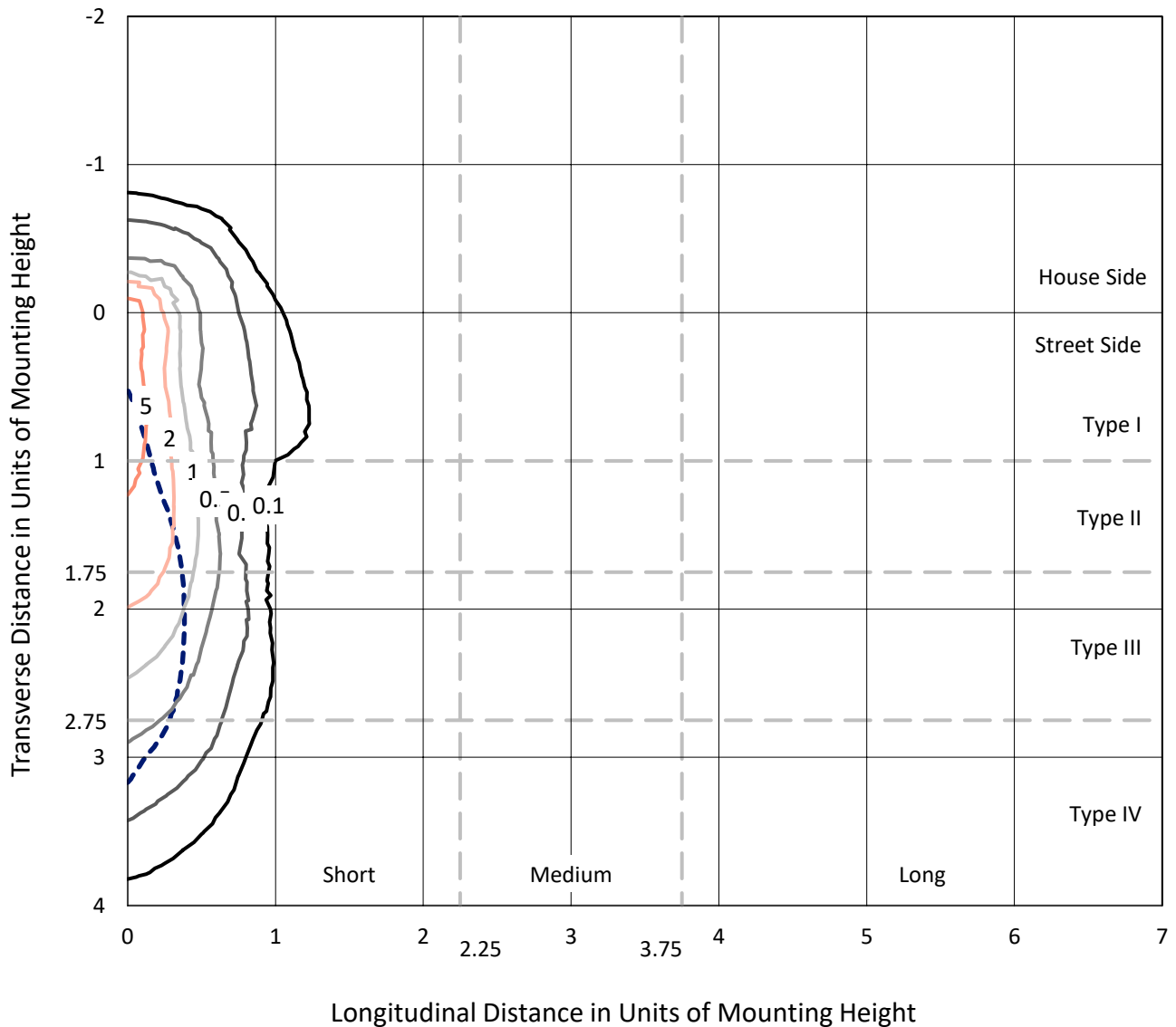
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

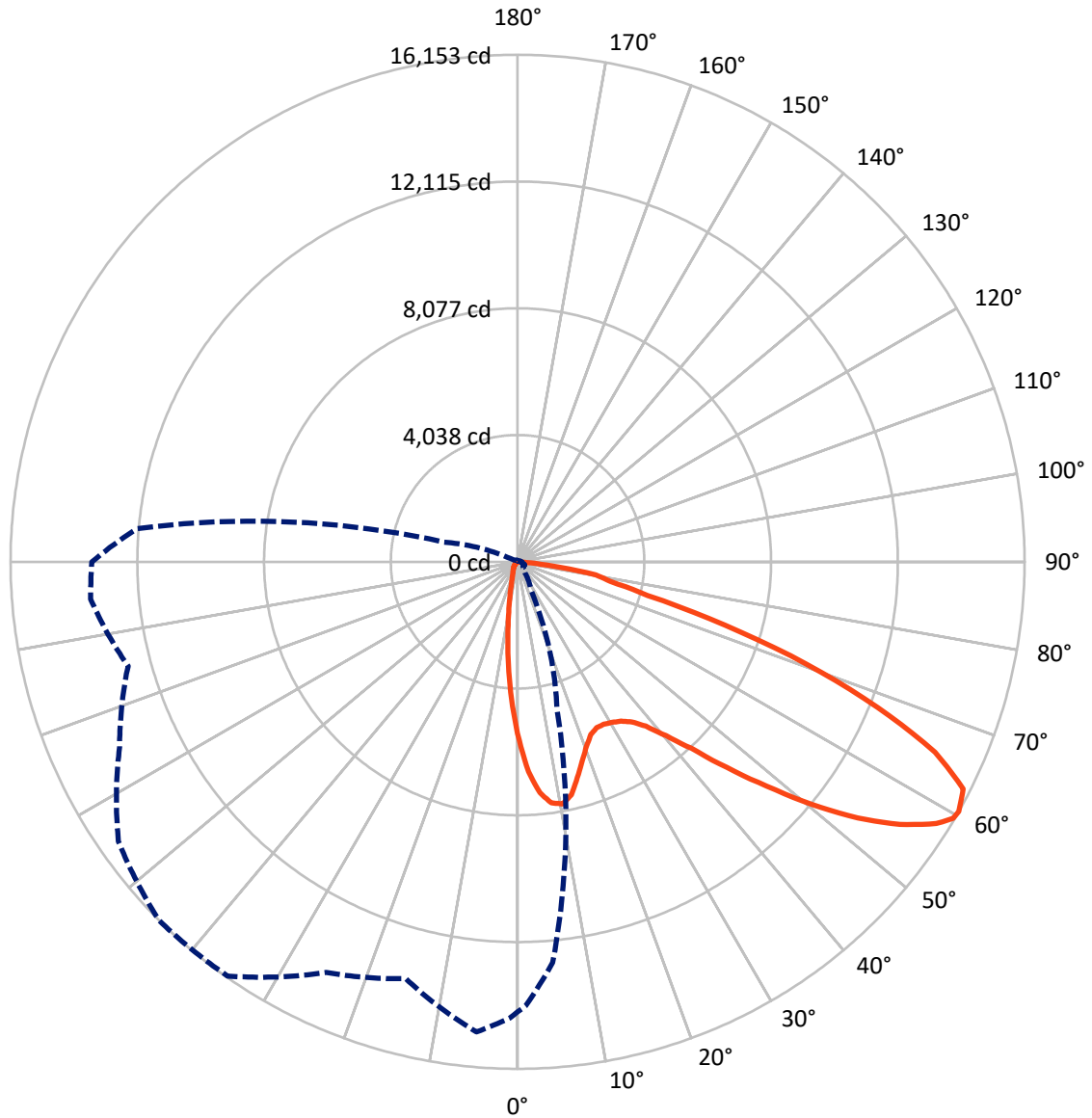
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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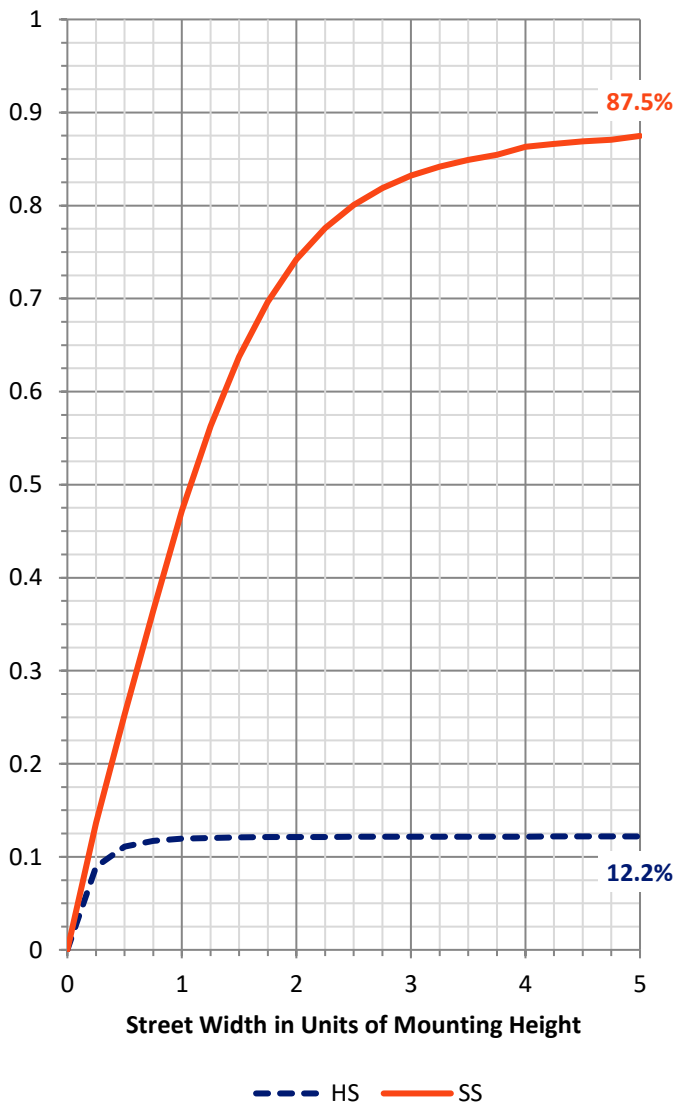
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2122.4	0.0	2122.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	15085.6	0.0	15085.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	17208.0	0.0	17208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.0	2.5
10°-20°	840.1	4.9
20°-30°	1231.8	7.2
30°-40°	1831.9	10.6
40°-50°	2666.1	15.5
50°-60°	3844.7	22.3
60°-70°	4228.7	24.6
70°-80°	1894.1	11.0
80°-90°	247.5	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°	17208.0	100.0
0°-180°	17208.0	100.0

Coefficient of Utilization

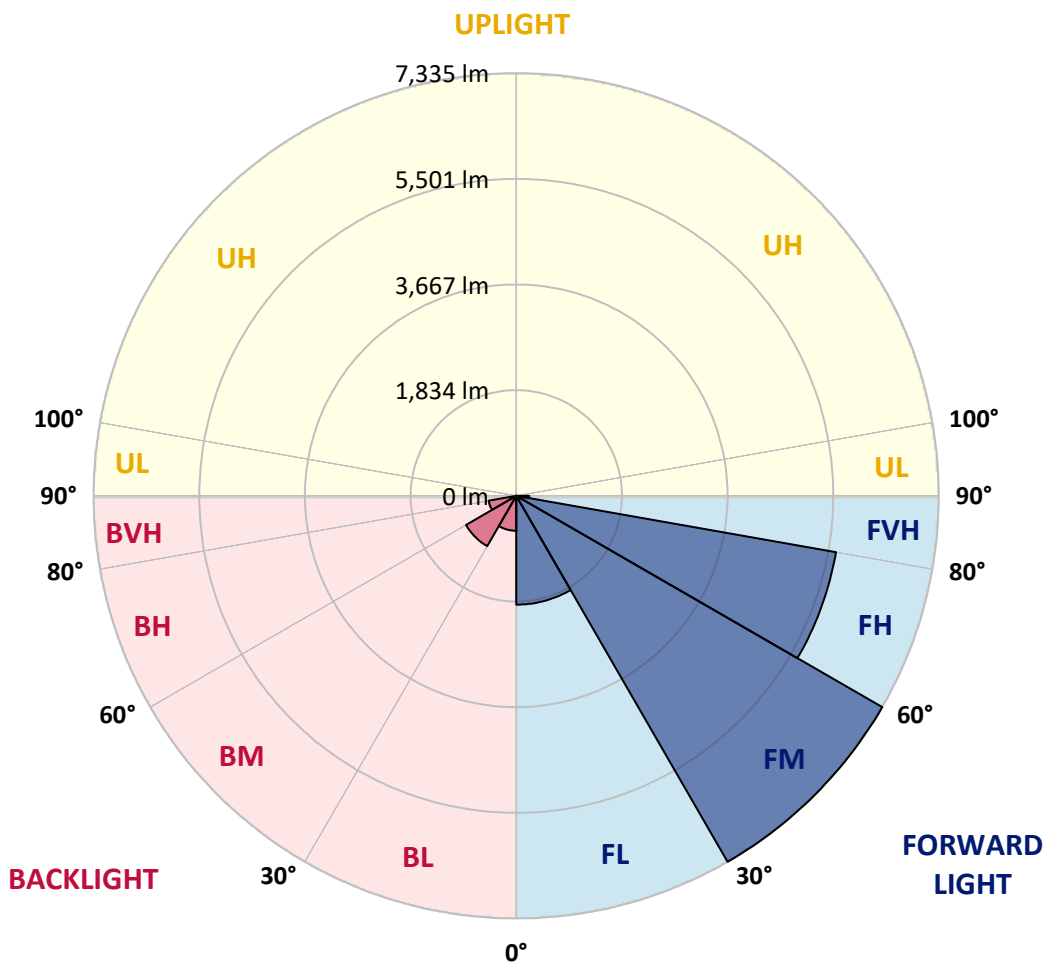


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1888.5	11.0			
FM (30°-60°)	7334.6	42.6			
FH (60°-80°)	5636.1	32.8			G3/7500
FVH (80°-90°)	226.3	1.3			G3/500
BL (0°-30°)	606.5	3.5	B2/1000		
BM (30°-60°)	1008.1	5.9	B2/2500		
BH (60°-80°)	486.7	2.8	B1/500		G1/500
BVH (80°-90°)	21.2	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°	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5
2.5°	6252.6	6225.1	6162.3	5971.3	5805.2	5588.0	5368.3	5195.7	5089.7	4894.8	4805.8
5°	6057.7	6070.8	5888.9	5496.5	5059.6	4761.3	4435.7	4176.7	3891.5	3711.0	3521.3
7.5°	5548.8	5522.7	5325.2	4778.4	4247.3	3815.6	3403.6	3068.7	2858.1	2689.4	2548.1
10°	5113.2	5093.6	4841.1	4137.5	3567.1	3244.0	2965.4	2672.4	2446.1	2198.9	2001.3
12.5°	4839.9	4795.4	4505.0	3769.8	3305.5	3004.6	2701.2	2396.4	2083.7	1833.9	1594.5
15°	4748.3	4684.2	4361.1	3643.0	3138.0	2756.1	2375.5	2024.9	1665.2	1389.2	1208.6
17.5°	4914.4	4808.5	4464.4	3620.7	2937.9	2431.7	1963.5	1506.9	1132.8	922.2	811.0
20°	5295.0	5173.4	4726.0	3598.5	2715.5	2068.1	1492.5	1064.8	783.5	668.4	607.0
22.5°	5860.1	5692.7	5113.2	3633.8	2510.2	1713.6	1077.9	752.1	622.6	550.7	507.5
25°	6539.1	6399.1	5603.8	3759.4	2348.0	1434.9	833.3	614.8	524.5	480.1	447.3
27.5°	7283.3	7059.7	6238.2	3909.8	2200.2	1219.1	731.2	549.4	467.0	426.4	409.4
30°	7813.1	7639.1	6769.3	4014.4	2015.8	1056.9	668.4	541.5	468.3	419.9	388.5
32.5°	8336.4	8114.0	7214.0	4062.8	1881.0	944.5	578.2	472.2	410.8	385.9	354.5
35°	8896.2	8663.3	7657.4	4036.7	1780.3	869.8	524.5	421.2	351.9	310.0	278.6
37.5°	9462.6	9216.7	8098.3	3942.5	1717.5	839.8	482.6	400.3	332.2	289.1	255.1
40°	10134.9	9806.6	8511.6	3865.4	1652.1	824.1	455.2	387.2	317.9	272.1	238.0
42.5°	10684.3	10371.7	8902.7	3824.8	1607.7	787.5	455.2	376.7	308.7	257.7	222.4
45°	11204.9	10880.5	9325.2	3857.5	1589.3	741.7	460.4	375.4	302.2	247.2	211.9
47.5°	11640.5	11359.3	9759.5	3980.5	1565.8	691.9	433.0	393.7	298.2	238.0	201.5
50°	12154.6	11882.5	10333.7	4229.0	1523.9	642.3	398.9	423.8	296.9	230.2	192.3
52.5°	12879.3	12584.9	11126.4	4511.6	1457.2	566.4	367.5	419.9	291.7	217.1	183.1
55°	13764.8	13526.7	12044.7	4850.3	1365.6	481.4	317.9	372.8	276.0	194.9	167.4
57.5°	14332.5	14129.8	12732.8	4996.8	1225.6	393.7	279.9	312.7	252.4	174.0	149.1
59°	14399.2	14216.1	12876.7	4948.4	1134.1	359.7	261.6	268.2	245.9	162.2	138.7
60°	14343.0	14153.4	12819.1	4854.2	1049.1	336.1	245.9	238.0	247.2	155.7	130.8
62.5°	13982.0	13657.6	12260.5	4376.8	917.0	308.7	218.5	194.9	218.5	140.0	116.4
65°	13284.8	12798.1	11155.2	3704.5	864.7	293.0	185.7	163.5	166.2	122.9	100.7
67.5°	12067.0	11453.5	9683.7	3009.9	842.4	294.3	157.0	146.5	128.2	104.6	88.9
70°	10141.5	9529.3	7769.9	2476.2	831.9	294.3	133.4	125.6	107.3	87.6	77.2
72.5°	7186.5	6527.2	5241.4	1945.1	749.5	293.0	113.8	113.8	87.6	73.3	62.8
75°	4060.2	4065.5	3295.0	1376.1	622.6	242.0	91.5	90.3	64.1	56.2	47.1
77.5°	2366.3	2324.4	2221.1	591.2	289.1	109.9	64.1	55.0	44.5	40.6	34.0
80°	1216.5	1000.7	974.5	214.5	103.4	69.3	44.5	31.4	28.8	26.2	23.6
82.5°	359.7	361.0	321.8	86.4	57.6	45.8	22.2	17.0	15.7	14.4	14.4
85°	24.8	15.7	18.3	26.2	35.3	18.3	1.3	3.9	3.9	5.2	6.6
87.5°	2.6	1.3	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°	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5
2.5°	4707.7	4765.3	4658.1	4660.7	4571.7	4600.5	4495.8	4529.8	4468.3	4515.5	4654.1
5°	3542.2	3555.4	3469.0	3441.5	3454.6	3508.2	3529.1	3433.7	3474.2	3394.5	3389.2
7.5°	2495.8	2511.5	2461.8	2455.3	2549.4	2527.2	2567.8	2469.7	2376.8	2417.3	2342.7
10°	1938.6	1873.2	1771.1	1742.3	1724.0	1735.8	1735.8	1646.9	1633.8	1598.5	1652.1
12.5°	1530.5	1450.7	1353.9	1223.0	1190.3	1187.7	1139.3	1060.8	1036.0	1005.9	1050.4
15°	1111.9	1079.1	998.1	924.8	850.3	835.9	757.4	693.3	608.2	596.5	592.6
17.5°	782.2	733.8	732.5	690.7	647.5	618.7	545.4	472.2	439.5	435.6	435.6
20°	586.0	569.0	541.5	536.3	523.2	490.5	425.1	385.9	370.2	371.5	376.7
22.5°	493.1	481.4	456.5	444.7	439.5	410.8	362.4	336.1	328.3	328.3	329.6
25°	440.8	430.3	402.9	384.6	378.0	357.1	319.2	299.6	293.0	293.0	293.0
27.5°	401.6	388.5	359.7	344.1	332.2	308.7	285.2	265.5	259.0	259.0	260.3
30°	374.1	359.7	333.6	312.7	294.3	273.4	253.8	236.8	228.9	227.6	228.9
32.5°	337.5	324.4	298.2	285.2	264.3	239.4	223.7	208.0	200.1	201.5	200.1
35°	262.9	259.0	240.7	244.6	232.9	211.9	197.6	180.5	171.3	170.1	172.7
37.5°	239.4	223.7	202.7	204.0	200.1	192.3	168.7	150.4	143.9	143.9	145.2
40°	221.0	205.4	181.8	170.1	171.3	171.3	146.5	126.8	120.3	119.0	121.7
42.5°	205.4	189.6	163.5	143.9	138.7	145.2	124.3	104.6	98.1	95.5	98.1
45°	194.9	177.9	147.8	125.6	109.9	117.8	102.0	86.4	78.5	78.5	77.2
47.5°	184.5	168.7	136.0	108.6	91.5	87.6	83.7	69.3	61.5	60.1	61.5
50°	175.3	159.6	122.9	94.2	77.2	68.0	68.0	55.0	49.7	47.1	48.4
52.5°	166.2	149.1	111.2	83.7	66.7	55.0	48.4	44.5	40.6	39.2	40.6
55°	153.1	136.0	99.4	72.0	57.6	45.8	37.9	36.6	34.0	31.4	34.0
57.5°	137.3	121.7	87.6	61.5	45.8	35.3	31.4	30.1	27.5	26.2	26.2
59°	128.2	113.8	81.1	53.6	40.6	31.4	28.8	27.5	24.8	22.2	23.6
60°	122.9	111.2	77.2	49.7	36.6	28.8	26.2	24.8	22.2	20.9	22.2
62.5°	108.6	99.4	68.0	40.6	28.8	20.9	18.3	19.7	18.3	17.0	18.3
65°	95.5	87.6	57.6	31.4	22.2	14.4	13.1	17.0	15.7	14.4	15.7
67.5°	85.0	75.9	48.4	23.6	15.7	7.8	9.2	14.4	14.4	13.1	14.4
70°	73.3	65.4	39.2	17.0	7.8	3.9	6.6	10.5	13.1	11.7	13.1
72.5°	60.1	51.1	30.1	11.7	3.9	0.0	3.9	9.2	13.1	11.7	13.1
75°	47.1	37.9	22.2	6.6	0.0	0.0	1.3	7.8	13.1	11.7	13.1
77.5°	34.0	27.5	13.1	1.3	0.0	0.0	1.3	7.8	13.1	11.7	13.1
80°	22.2	19.7	5.2	0.0	0.0	0.0	1.3	7.8	13.1	13.1	14.4
82.5°	14.4	10.5	0.0	0.0	0.0	0.0	2.6	10.5	14.4	15.7	15.7
85°	6.6	0.0	0.0	0.0	0.0	0.0	5.2	13.1	17.0	17.0	17.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	9.2	15.7	19.7	19.7	19.7
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°	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5
2.5°	4677.6	4760.1	4876.4	5055.7	5200.9	5429.8	5605.1	5844.5	6086.4	6159.7	6273.5
5°	3442.9	3548.8	3813.1	4053.7	4205.4	4689.5	4995.5	5478.2	5911.2	6119.1	6345.4
7.5°	2391.1	2516.7	2718.2	3054.3	3373.5	3767.2	4261.7	4813.7	5448.1	5745.0	6064.2
10°	1678.3	1835.2	2119.1	2395.0	2796.6	3170.8	3658.6	4268.2	4968.1	5318.6	5718.9
12.5°	1059.6	1199.5	1574.9	1884.9	2386.0	2820.2	3270.2	3822.2	4633.2	4992.9	5412.8
15°	605.7	723.3	898.6	1296.3	1852.3	2426.4	2987.6	3628.6	4461.8	4905.3	5359.2
17.5°	451.3	482.6	561.2	786.1	1292.3	1963.5	2727.3	3569.7	4578.3	5098.8	5616.9
20°	379.4	400.3	436.9	525.9	824.1	1512.1	2473.6	3580.2	4955.0	5609.0	6100.8
22.5°	340.1	353.2	383.3	440.8	562.5	1101.4	2176.7	3641.7	5411.5	6235.6	6803.3
25°	298.2	315.2	341.4	391.1	468.3	763.9	1883.6	3779.0	6051.1	7030.9	7564.6
27.5°	265.5	281.3	307.4	353.2	410.8	583.4	1542.2	3896.8	6726.1	7831.4	8268.3
30°	232.9	248.5	274.7	311.3	363.6	472.2	1174.7	3966.1	7381.4	8431.8	8768.0
32.5°	205.4	218.5	243.3	276.0	319.2	400.3	926.1	3894.1	7882.5	8977.3	9202.3
35°	177.9	193.6	214.5	244.6	282.5	341.4	770.5	3645.6	8312.8	9538.4	9619.5
37.5°	149.1	167.4	189.6	217.1	247.2	313.9	618.7	3370.9	8773.2	10238.3	10104.8
40°	125.6	142.6	163.5	193.6	221.0	287.8	476.1	3077.9	9270.3	10894.9	10634.6
42.5°	102.0	120.3	145.2	172.7	218.5	251.2	368.9	2774.4	9716.3	11466.6	11113.4
45°	81.1	96.8	122.9	158.2	217.1	215.8	285.2	2474.9	10052.5	11874.7	11470.5
47.5°	64.1	77.2	103.4	154.3	200.1	183.1	228.9	2289.1	10405.7	12242.2	11743.8
50°	51.1	64.1	88.9	160.9	175.3	157.0	192.3	2319.2	10747.1	12429.3	11856.3
52.5°	43.1	56.2	77.2	126.8	134.8	137.3	168.7	2457.8	11187.9	12629.4	12080.0
55°	37.9	49.7	65.4	88.9	104.6	122.9	154.3	2558.6	11777.9	13058.5	12573.2
57.5°	30.1	43.1	58.9	75.9	86.4	107.3	142.6	2566.4	12311.6	13609.2	13228.5
59°	27.5	39.2	55.0	72.0	77.2	96.8	134.8	2499.7	12331.2	13691.5	13529.4
60°	24.8	37.9	52.3	66.7	73.3	91.5	128.2	2422.5	12153.3	13560.8	13653.6
62.5°	20.9	32.7	45.8	53.6	62.8	75.9	111.2	2142.6	11291.3	12968.2	13423.4
65°	18.3	28.8	39.2	44.5	52.3	65.4	98.1	1714.8	10339.0	12165.1	12764.2
67.5°	17.0	26.2	34.0	37.9	45.8	60.1	87.6	1211.3	9105.5	11146.1	11774.0
70°	15.7	24.8	30.1	35.3	40.6	51.1	74.5	706.3	7013.9	9359.3	10022.4
72.5°	15.7	23.6	26.2	30.1	35.3	45.8	69.3	381.9	4795.4	7139.5	7996.2
75°	15.7	22.2	23.6	26.2	31.4	41.9	61.5	200.1	3100.1	4960.2	6121.7
77.5°	15.7	20.9	23.6	24.8	30.1	36.6	53.6	125.6	2065.5	3474.2	4137.5
80°	17.0	20.9	22.2	24.8	28.8	34.0	44.5	83.7	1213.9	2090.3	2518.0
82.5°	18.3	20.9	23.6	26.2	30.1	32.7	39.2	52.3	559.8	1382.6	1564.4
85°	19.7	22.2	24.8	27.5	31.4	32.7	36.6	37.9	91.5	624.0	843.7
87.5°	20.9	23.6	26.2	28.8	34.0	34.0	34.0	34.0	31.4	66.7	170.1
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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CATALOG NUMBER: GALN-SA4D-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5
2.5°	6417.4	6565.2	6668.6	6694.7	6620.1	6586.1	6491.9	6345.4	6256.5	6252.6
5°	6762.7	7109.3	7350.0	7390.6	7246.7	7003.4	6714.3	6341.5	6123.1	6057.7
7.5°	6703.9	7310.8	7698.0	7754.2	7512.3	7047.9	6488.0	5887.6	5649.6	5548.8
10°	6461.9	7202.3	7755.5	7844.5	7521.4	6867.4	6155.8	5486.0	5190.4	5113.2
12.5°	6255.2	7003.4	7495.3	7618.2	7373.6	6720.9	5957.0	5228.3	4911.8	4839.9
15°	6165.0	6767.9	7068.8	7131.6	7091.1	6629.3	5936.0	5189.1	4826.8	4748.3
17.5°	6255.2	6567.8	6605.8	6669.8	6760.1	6620.1	6137.5	5402.3	5011.2	4914.4
20°	6491.9	6393.8	6236.9	6264.3	6471.0	6658.1	6495.8	5874.5	5398.4	5295.0
22.5°	6894.9	6350.7	5994.9	5971.3	6232.9	6784.9	7021.7	6514.2	5962.2	5860.1
25°	7389.2	6459.3	5905.9	5854.9	6140.1	6970.7	7593.4	7297.7	6694.7	6539.1
27.5°	7928.2	6684.2	5905.9	5856.2	6132.2	7135.6	8082.6	7991.0	7453.4	7283.3
30°	8223.8	6870.0	5991.0	5934.7	6229.0	7231.0	8344.2	8607.1	8023.7	7813.1
32.5°	8488.0	7127.6	6157.1	6051.1	6431.8	7372.3	8578.3	9130.3	8477.6	8336.4
35°	8731.4	7403.7	6386.0	6263.1	6698.6	7565.9	8837.3	9679.7	9109.4	8896.2
37.5°	8999.5	7724.1	6743.1	6638.4	7144.6	7942.6	9144.7	10401.8	9730.7	9462.6
40°	9291.2	8095.7	7330.4	7286.0	7853.6	8369.0	9533.2	11172.2	10439.7	10134.9
42.5°	9588.1	8523.3	8049.9	8123.1	8656.8	8966.8	9932.2	11764.8	11020.5	10684.3
45°	9857.6	9070.2	8985.2	9347.5	9593.4	9550.3	10227.8	12182.1	11526.7	11204.9
47.5°	10197.7	9866.7	10116.6	10675.2	10681.7	10184.6	10451.5	12523.5	11962.3	11640.5
50°	10578.3	10807.3	11577.8	12146.8	11993.7	10808.6	10713.1	12927.6	12412.3	12154.6
52.5°	11019.2	11860.3	12927.6	13559.4	13202.3	11488.8	11148.7	13364.6	13126.4	12879.3
55°	11531.9	12578.4	14273.6	14777.2	14417.5	12333.8	11810.5	13957.1	13933.6	13764.8
57.5°	12111.4	13337.1	15053.3	15734.8	15414.3	13325.3	12735.3	14515.6	14426.7	14332.5
59°	12569.3	13726.9	15397.3	16103.6	15910.1	14019.9	13356.7	14863.6	14540.5	14399.2
60°	12846.5	13991.1	15524.1	16153.4	16108.9	14433.3	13750.4	15033.7	14539.2	14343.0
62.5°	13669.3	14452.8	15475.8	15932.3	16106.2	15225.9	14905.4	15220.7	14269.7	13982.0
65°	13962.3	14299.9	14673.9	14617.7	14766.8	15185.3	15643.2	15015.4	13694.2	13284.8
67.5°	13392.0	12621.6	12753.7	12378.3	12305.0	13500.6	15343.7	14010.8	12567.9	12067.0
70°	11288.7	9669.3	9602.6	9775.2	9301.6	10930.2	13777.9	12076.1	10709.2	10141.5
72.5°	8885.7	6833.3	6270.9	6906.6	6892.2	8339.0	11445.6	8569.2	7234.9	7186.5
75°	6987.7	4757.4	4175.3	4278.7	4477.5	6036.8	9115.9	5441.5	4455.3	4060.2
77.5°	4690.7	3370.9	3144.6	3017.7	3232.2	3875.8	5767.3	2951.0	2498.4	2366.3
80°	2703.8	2448.7	2781.0	2524.5	2639.6	2442.2	2868.6	1353.9	1123.6	1216.5
82.5°	1759.3	1394.4	1486.0	1104.0	1509.5	1522.6	920.9	400.3	338.8	359.7
85°	1100.1	654.0	367.5	261.6	520.6	957.5	287.8	24.8	28.8	24.8
87.5°	285.2	108.6	45.8	68.0	83.7	74.5	66.7	3.9	1.3	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)