

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: P648327

Luminaire Tested: **GALN-SA3B-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11464.7 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

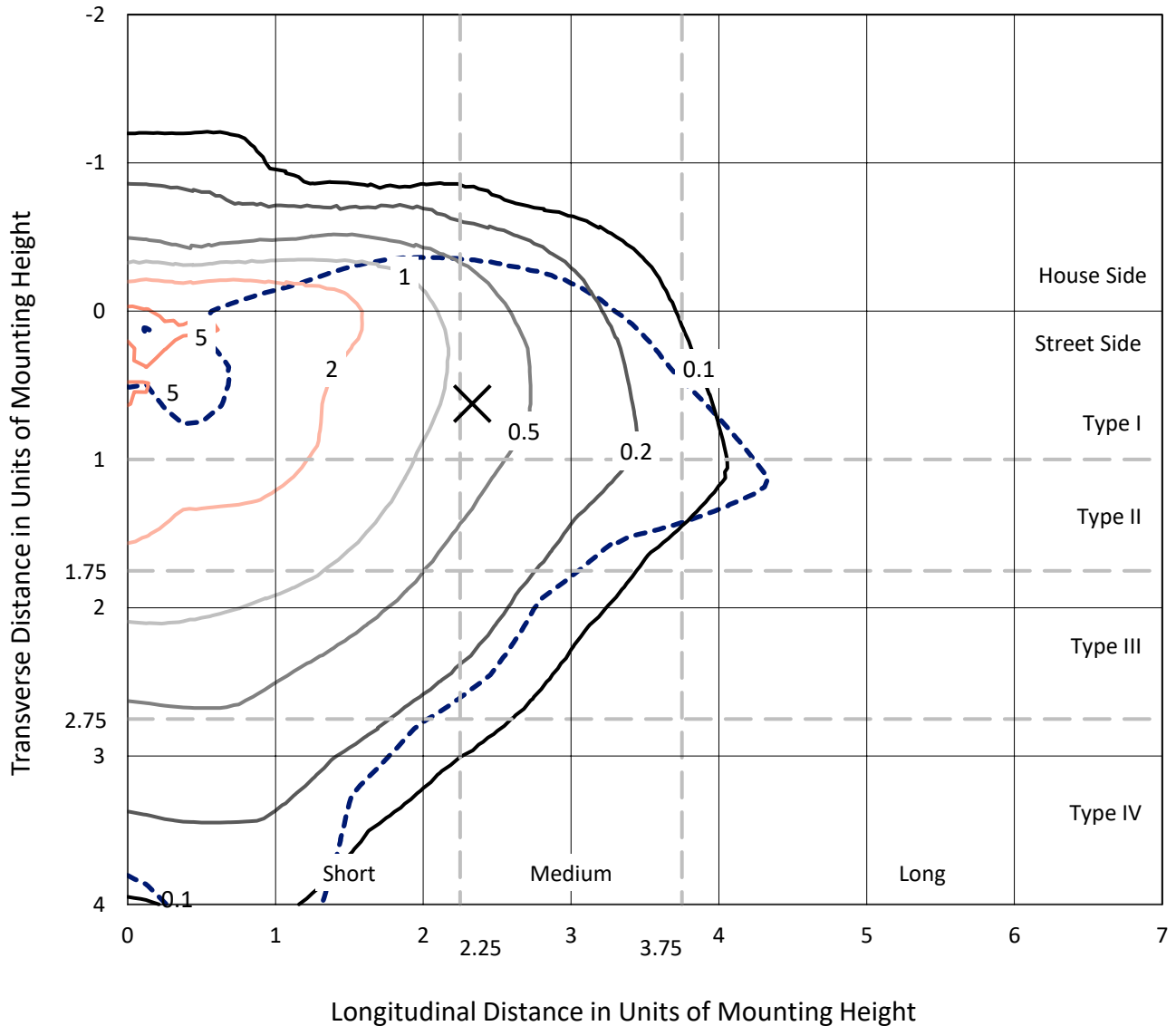
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

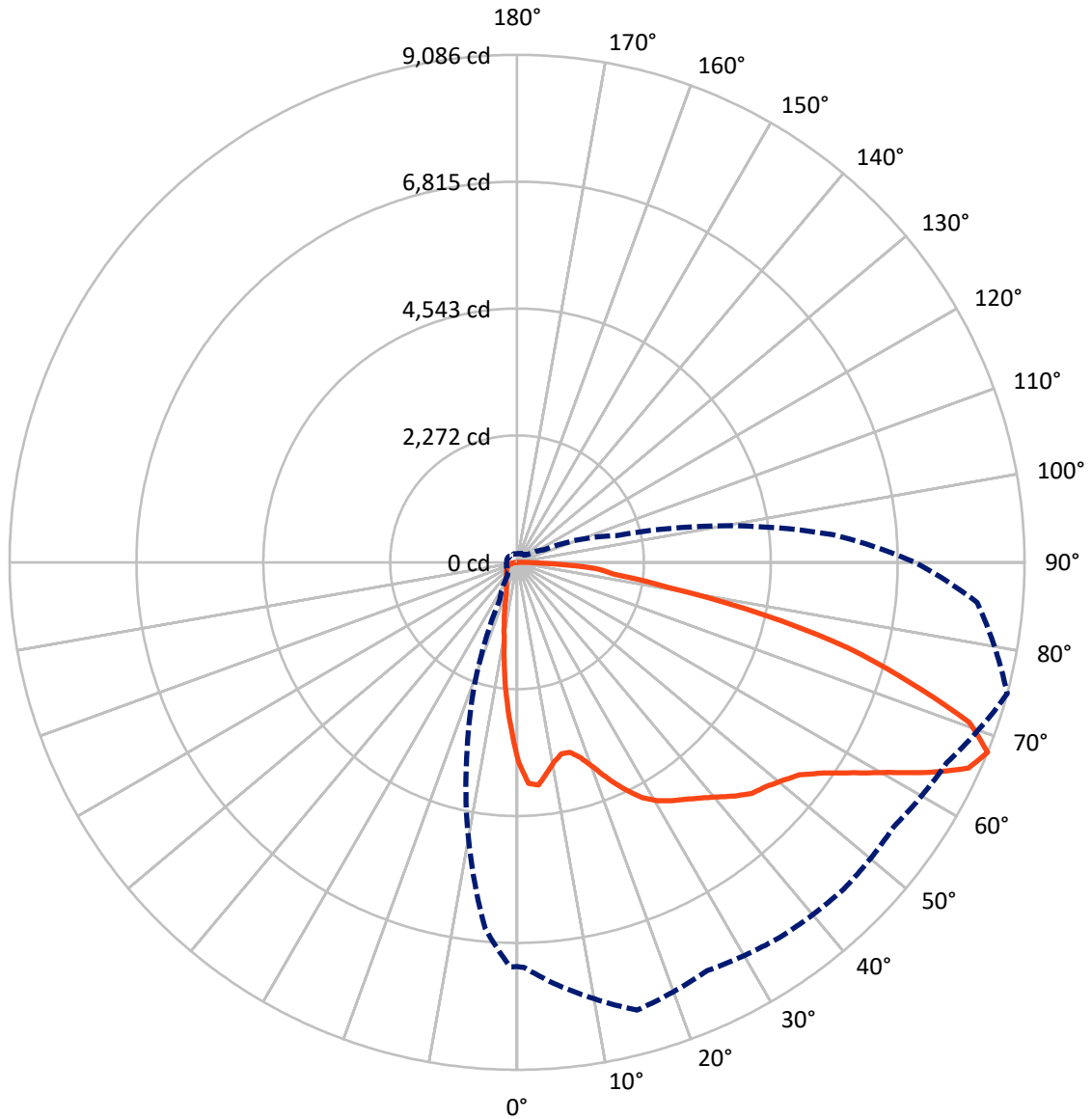
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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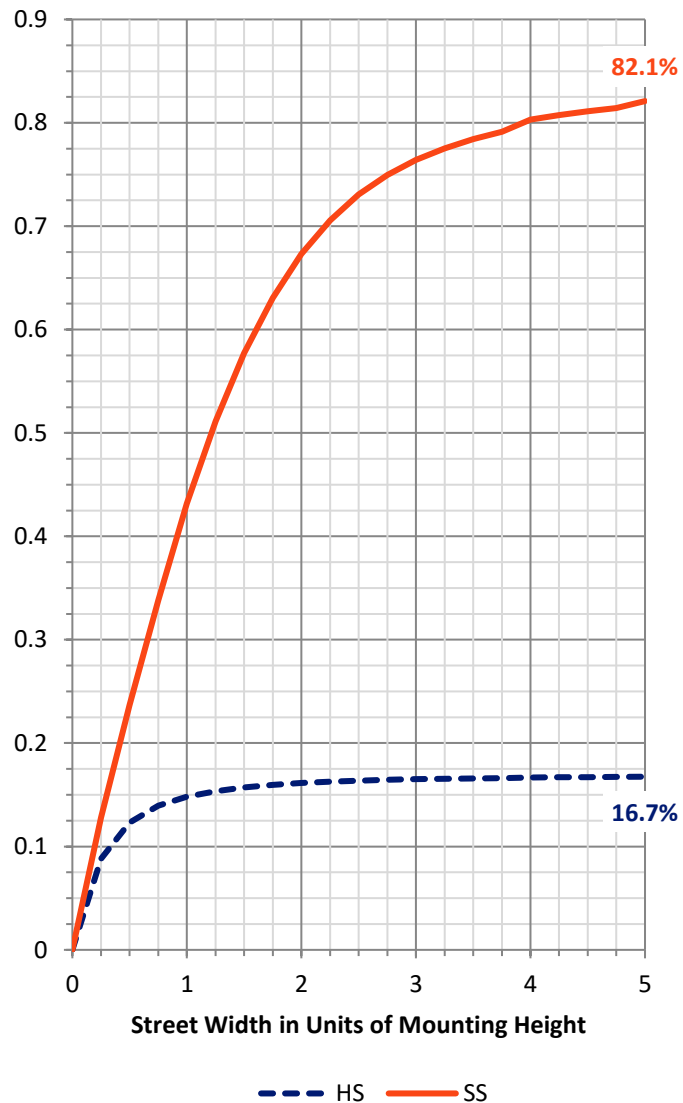
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1937.8	0.0	1937.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	9526.9	0.0	9526.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	11464.7	0.0	11464.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	2.4
10°-20°	566.6	4.9
20°-30°	815.3	7.1
30°-40°	1174.3	10.2
40°-50°	1649.6	14.4
50°-60°	2300.5	20.1
60°-70°	2735.2	23.9
70°-80°	1610.9	14.1
80°-90°	340.6	3.0
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°	11464.7	100.0
0°-180°	11464.7	100.0

Coefficient of Utilization

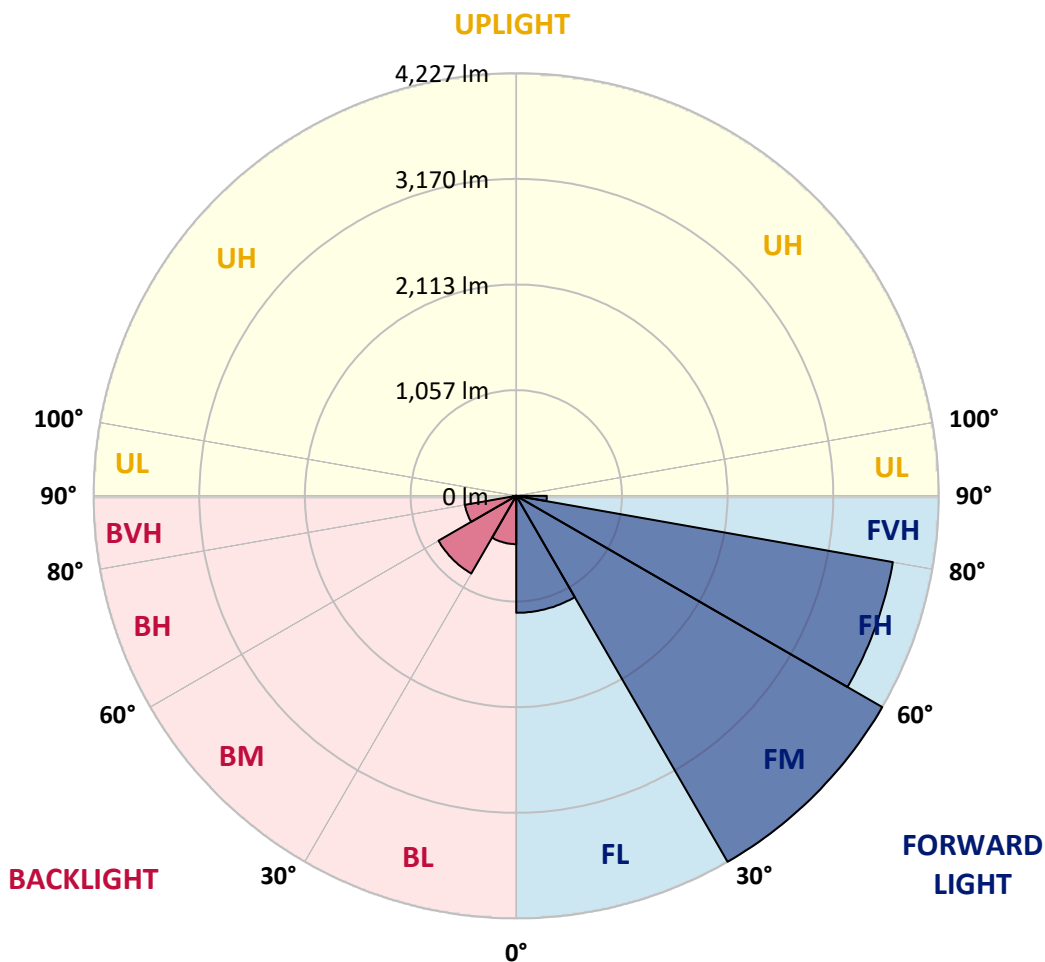


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.2	10.2			
FM (30°-60°)	4226.6	36.9			
FH (60°-80°)	3824.7	33.4			G2/5000
FVH (80°-90°)	305.4	2.7			G3/500
BL (0°-30°)	483.3	4.2	B1/500		
BM (30°-60°)	897.8	7.8	B1/1000		
BH (60°-80°)	521.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	35.2	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8
2.5°	3861.9	3867.1	3900.2	3996.5	4062.7	4086.9	4103.9	4072.2	4041.3	3966.4	3853.1
5°	3850.2	3880.3	3966.4	4182.5	4353.1	4426.5	4448.6	4353.8	4197.2	4004.6	3773.0
7.5°	3625.2	3665.6	3798.0	4160.5	4461.1	4633.2	4610.4	4439.1	4156.8	3813.4	3489.9
10°	3358.4	3403.2	3562.7	4000.9	4388.3	4625.1	4625.1	4416.3	4041.3	3633.3	3260.6
12.5°	3146.6	3193.6	3376.0	3836.9	4236.9	4461.1	4498.6	4319.3	3958.2	3519.4	3109.8
15°	3076.8	3122.4	3318.7	3737.7	4076.6	4213.4	4225.9	4167.0	3917.8	3527.4	3103.3
17.5°	3163.6	3222.4	3420.8	3767.1	3929.6	3937.7	3947.3	3993.5	3922.2	3675.2	3237.0
20°	3414.2	3477.5	3684.8	3861.9	3800.9	3717.1	3722.2	3841.4	3974.4	3919.3	3556.9
22.5°	3775.9	3831.1	4043.6	4028.8	3746.5	3573.8	3537.8	3703.9	4051.6	4223.7	3897.2
25°	4166.3	4231.0	4475.1	4276.6	3761.9	3488.5	3465.7	3623.0	4131.7	4508.2	4290.5
27.5°	4613.3	4676.5	4869.2	4526.5	3842.8	3481.8	3454.7	3615.7	4203.8	4771.4	4666.2
30°	4945.6	5003.7	5134.5	4736.8	3942.1	3525.9	3492.2	3673.8	4265.5	4951.5	5032.3
32.5°	5206.6	5266.9	5338.2	4867.7	4072.9	3606.1	3543.6	3779.6	4346.4	5089.0	5303.7
35°	5478.7	5549.9	5544.8	4983.9	4195.0	3698.7	3637.7	3932.5	4473.6	5208.8	5647.7
37.5°	5823.4	5852.1	5815.3	5088.2	4341.3	3865.6	3831.8	4159.7	4654.5	5353.6	6049.8
40°	6173.4	6230.7	6041.8	5214.7	4519.2	4179.6	4175.9	4495.7	4869.2	5523.4	6439.5
42.5°	6473.4	6521.8	6253.5	5324.9	4734.6	4562.6	4590.5	4946.4	5150.7	5720.5	6752.7
45°	6699.0	6742.4	6449.1	5431.6	5018.4	5005.2	5169.8	5429.4	5505.8	5897.7	6936.5
47.5°	6890.9	6932.8	6585.1	5593.3	5369.1	5533.8	5820.5	5932.9	5809.5	5999.1	7142.4
50°	7052.6	7065.2	6678.4	5785.9	5804.3	6181.5	6459.4	6532.2	6109.4	6144.7	7321.0
52.5°	7221.1	7204.9	6839.4	6028.6	6274.8	6796.0	6998.3	7074.0	6396.9	6324.1	7581.2
55°	7598.2	7613.6	7200.5	6334.4	6750.5	7399.7	7665.8	7593.1	6715.2	6654.2	7912.1
57.5°	8054.0	8040.8	7708.5	6813.0	7235.0	7961.4	8159.9	8043.0	7140.2	7107.8	8247.3
60°	8231.2	8248.8	8133.4	7327.6	7712.9	8453.2	8656.1	8474.5	7649.7	7635.0	8500.2
62.5°	8053.2	8152.5	8230.4	7785.7	8120.2	8814.9	9016.3	8809.1	8181.2	8287.8	8677.4
65°	7698.9	7720.2	7985.6	8173.8	8316.5	8874.4	8979.6	8869.4	8625.2	8882.6	8669.4
67.5°	7238.7	7257.1	7568.0	8301.1	8063.6	8198.1	8271.6	8239.3	8487.7	9086.2	8270.1
70°	6800.5	6785.8	7114.4	7976.8	7019.6	6815.2	6876.2	6774.8	7323.9	8588.5	7487.1
72.5°	5947.7	6000.6	6353.5	7075.4	5558.0	5225.7	5358.8	5096.3	5633.0	7355.6	6077.1
75°	4658.9	4671.4	5260.3	5938.1	4192.8	3668.6	3848.7	3739.1	4314.8	6135.9	4196.5
77.5°	3226.0	3198.1	3831.1	4535.4	2990.0	2685.6	2688.6	2636.4	3012.8	4517.8	2851.1
80°	2049.0	2006.4	2398.2	2801.8	2054.8	2198.2	2126.2	2124.0	1961.5	2787.1	1724.0
82.5°	1107.2	1154.2	1515.3	1756.3	1474.1	1699.0	1557.2	1511.6	1346.1	1744.6	1102.8
85°	504.3	548.4	808.0	1194.7	1119.7	1132.2	756.5	892.5	1113.8	1416.7	588.9
87.5°	49.3	63.2	166.9	563.9	382.3	301.5	112.5	216.9	280.1	503.6	47.1
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8
2.5°	3806.8	3768.6	3638.4	3531.1	3417.2	3330.4	3217.2	3141.5	3089.2	3010.6	3001.0
5°	3631.9	3538.5	3312.0	3081.2	2881.9	2732.0	2579.8	2440.1	2357.8	2332.0	2299.0
7.5°	3337.0	3179.7	2888.6	2623.9	2395.3	2171.7	1999.7	1877.6	1796.0	1748.3	1691.0
10°	3094.4	2912.1	2557.7	2233.5	2045.3	1906.4	1754.9	1624.0	1523.3	1437.3	1390.2
12.5°	2931.2	2725.3	2326.8	2063.7	1918.1	1770.4	1593.2	1446.1	1297.6	1199.8	1157.9
15°	2881.9	2664.3	2255.6	1979.1	1770.4	1577.0	1378.5	1186.6	1039.6	947.0	916.0
17.5°	3002.5	2739.3	2254.8	1866.7	1596.9	1365.9	1111.6	931.5	780.8	711.7	689.6
20°	3227.4	2883.4	2261.5	1755.6	1408.6	1083.7	808.7	660.9	588.9	559.5	548.4
22.5°	3541.4	3103.3	2281.3	1646.1	1202.8	832.3	605.8	530.8	505.1	499.9	497.8
25°	3928.1	3375.3	2348.2	1547.6	1029.3	635.2	506.5	472.7	458.1	452.9	452.1
27.5°	4283.9	3726.7	2429.1	1463.0	861.6	547.7	458.1	429.3	414.7	413.9	415.4
30°	4605.2	4020.8	2496.7	1368.2	734.5	486.7	426.4	397.8	383.7	383.0	387.4
32.5°	4883.1	4262.7	2546.7	1274.8	663.9	449.2	397.8	366.8	355.1	352.9	355.1
35°	5180.2	4503.7	2523.9	1202.1	623.4	418.4	376.4	346.2	332.3	325.6	325.6
37.5°	5519.1	4752.3	2484.9	1141.8	605.0	392.6	358.1	328.6	314.7	308.0	307.3
40°	5888.9	5000.8	2431.3	1088.1	586.7	377.2	345.5	314.7	297.8	291.1	289.6
42.5°	6215.3	5213.2	2387.1	1052.8	556.6	380.1	334.5	304.4	283.1	274.2	273.5
45°	6499.1	5427.1	2379.1	1032.2	531.6	375.7	331.6	296.3	271.3	261.8	260.3
47.5°	6721.1	5649.9	2425.4	1020.4	504.3	352.2	350.7	291.1	261.0	250.7	249.2
50°	6991.6	5966.1	2531.3	996.2	479.4	330.1	370.5	290.4	252.9	239.7	236.0
52.5°	7351.9	6377.8	2674.6	952.8	443.3	309.5	353.6	290.4	243.4	230.1	225.7
55°	7896.6	6902.7	2815.0	891.8	392.6	282.3	319.1	281.6	229.3	217.6	214.7
57.5°	8257.7	7286.4	2904.7	807.3	329.3	262.5	275.0	267.6	215.4	202.9	202.9
60°	8276.0	7389.4	2862.1	700.6	289.6	244.1	239.0	269.8	202.9	189.6	188.2
62.5°	8064.3	7137.2	2640.0	605.0	268.3	224.3	216.1	236.7	190.4	177.2	175.0
65°	7733.5	6493.9	2254.8	559.5	256.6	206.6	194.8	194.1	177.2	164.7	161.8
67.5°	7125.5	5674.9	1852.7	533.0	250.7	186.7	175.7	172.0	161.8	151.4	149.9
70°	6229.2	4753.0	1485.8	521.9	247.7	166.2	157.3	152.9	144.1	136.0	135.3
72.5°	4846.4	3855.3	1226.3	514.7	246.3	147.0	137.5	131.6	126.5	119.1	119.1
75°	3481.1	2836.3	935.9	463.9	227.9	126.5	116.2	112.5	105.2	99.3	100.7
77.5°	2194.5	1910.1	616.1	341.2	176.4	101.5	92.6	90.4	84.6	76.4	81.6
80°	1482.1	1343.2	359.5	214.7	111.0	74.2	71.3	70.5	64.0	55.1	55.9
82.5°	1008.7	989.6	186.7	122.1	64.0	43.4	41.9	43.4	36.0	29.4	29.4
85°	394.1	538.2	88.2	47.8	20.6	6.7	9.6	10.3	5.9	3.0	3.7
87.5°	7.4	55.1	2.2	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°	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8
2.5°	2986.4	2979.7	2990.7	2943.7	2953.2	2970.9	2979.7	2984.9	3057.6	3040.7	3087.1
5°	2329.8	2323.2	2365.8	2371.7	2393.8	2389.3	2410.7	2415.9	2442.3	2451.9	2516.6
7.5°	1694.6	1723.3	1771.8	1796.8	1834.3	1846.1	1835.0	1862.2	1807.1	1846.8	1858.5
10°	1361.6	1327.0	1306.4	1363.8	1371.1	1425.5	1403.4	1385.8	1418.2	1419.7	1450.5
12.5°	1133.6	1059.4	1010.1	1026.4	1044.0	1067.5	1071.1	1106.5	1129.9	1152.0	1170.4
15°	888.9	863.1	818.2	796.2	821.2	830.8	853.5	883.0	908.0	914.5	939.6
17.5°	682.2	686.7	679.3	666.1	681.5	688.9	690.4	691.1	697.7	693.3	730.1
20°	549.2	564.6	583.0	585.9	591.1	594.8	588.2	563.1	563.9	579.3	591.1
22.5°	497.0	499.9	520.5	527.1	543.3	536.7	517.6	505.8	504.3	508.0	513.9
25°	455.8	460.2	475.0	485.2	497.8	485.9	472.0	461.0	459.5	463.1	469.0
27.5°	419.1	425.6	438.9	449.2	461.0	449.9	436.7	427.1	426.4	425.6	429.3
30°	389.6	397.0	406.5	418.4	426.4	416.9	404.3	399.2	398.5	397.0	398.5
32.5°	360.3	372.0	381.6	387.4	395.5	388.2	378.7	375.7	370.5	366.1	363.9
35°	327.1	339.7	354.4	361.7	369.8	362.5	355.8	343.3	334.5	333.8	335.3
37.5°	308.0	313.2	324.9	337.5	345.5	341.9	329.3	316.9	314.7	314.7	316.1
40°	291.1	293.3	298.5	314.7	329.3	318.4	302.9	299.2	299.2	298.5	299.2
42.5°	274.2	276.4	276.4	288.9	312.4	294.8	283.1	283.1	283.1	283.8	286.0
45°	258.8	259.5	258.8	267.6	289.6	275.0	266.8	269.1	270.5	272.0	273.5
47.5°	245.5	246.3	245.5	252.9	263.9	258.1	253.6	256.6	259.5	261.8	263.2
50°	233.8	233.0	234.5	239.0	244.1	245.5	242.6	247.0	248.5	251.4	255.1
52.5°	223.5	222.8	224.3	226.4	233.8	233.8	233.8	237.5	240.4	243.4	248.5
55°	211.7	212.5	214.7	217.6	227.1	225.7	226.4	229.3	232.3	236.7	239.7
57.5°	200.7	202.2	205.1	209.5	219.1	218.4	219.1	220.6	224.3	226.4	229.3
60°	188.2	191.1	194.8	197.8	207.3	206.6	210.2	213.2	215.4	215.4	216.9
62.5°	175.7	180.1	183.8	186.0	196.3	197.0	202.2	204.4	205.9	204.4	206.6
65°	163.2	169.8	171.3	174.2	184.6	185.3	191.1	196.3	194.8	193.3	197.0
67.5°	150.7	158.8	158.1	161.8	172.0	173.5	178.7	187.5	184.6	183.1	186.0
70°	136.7	142.7	143.4	145.6	159.5	157.3	165.4	173.5	171.3	172.0	172.0
72.5°	121.3	126.5	126.5	130.8	145.6	141.9	148.5	157.3	157.3	156.6	156.6
75°	103.0	105.9	108.8	115.4	130.8	126.5	130.8	139.0	140.4	139.0	139.0
77.5°	83.1	87.5	88.9	97.8	108.8	108.1	112.5	116.2	119.1	117.6	117.6
80°	58.8	63.2	69.1	78.7	85.3	87.5	89.7	92.6	94.1	94.1	95.6
82.5°	33.1	39.7	44.9	54.4	57.3	68.4	67.7	69.8	67.7	59.6	66.2
85°	7.4	13.9	19.9	25.0	28.7	39.7	41.9	47.1	39.0	36.0	36.0
87.5°	0.0	0.0	0.0	0.0	0.0	5.9	11.7	16.2	13.9	11.7	11.7
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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 CATALOG NUMBER: GALN-SA3B-835-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8
2.5°	3126.0	3190.0	3267.1	3400.3	3493.6	3594.4	3695.8	3803.9	3832.6	3861.9
5°	2534.2	2659.9	2728.3	2907.0	3094.4	3332.6	3527.4	3740.6	3829.6	3850.2
7.5°	1919.6	2004.9	2184.3	2365.1	2597.4	2847.4	3145.9	3478.2	3581.8	3625.2
10°	1521.8	1638.0	1795.3	1989.4	2193.1	2462.1	2798.8	3187.0	3334.1	3358.4
12.5°	1295.4	1424.8	1596.1	1801.2	1993.8	2196.7	2536.4	2937.1	3094.4	3146.6
15°	1035.9	1192.5	1390.2	1606.4	1815.9	2037.9	2382.0	2834.1	3015.7	3076.8
17.5°	813.9	940.3	1154.2	1388.8	1637.3	1918.1	2349.6	2883.4	3106.9	3163.6
20°	622.7	713.2	893.2	1141.0	1432.2	1799.7	2357.8	3069.4	3337.0	3414.2
22.5°	538.2	584.5	694.1	930.0	1255.7	1696.8	2390.8	3324.5	3647.3	3775.9
25°	487.4	511.7	573.5	727.8	1087.4	1596.9	2466.5	3667.9	4081.0	4166.3
27.5°	444.0	461.7	499.9	611.0	934.4	1504.2	2554.8	4048.7	4486.1	4613.3
30°	402.9	426.4	462.4	542.5	836.6	1419.7	2665.8	4357.5	4827.3	4945.6
32.5°	371.3	394.8	427.9	494.8	753.6	1330.7	2732.0	4628.8	5105.9	5206.6
35°	345.5	365.4	400.0	456.6	690.4	1263.1	2718.7	4844.2	5375.7	5478.7
37.5°	327.1	344.1	378.7	420.5	642.5	1192.5	2712.1	5128.7	5704.3	5823.4
40°	310.2	327.9	359.5	397.0	594.8	1109.4	2715.8	5411.0	6054.3	6173.4
42.5°	297.0	316.9	342.6	390.4	545.5	1042.5	2715.8	5656.5	6358.7	6473.4
45°	286.0	307.3	332.3	389.6	506.5	991.7	2697.4	5867.6	6601.2	6699.0
47.5°	276.4	300.0	336.0	376.4	497.0	955.0	2681.2	6036.6	6799.0	6890.9
50°	269.8	297.8	357.3	361.0	499.9	944.0	2759.1	6249.8	6973.2	7052.6
52.5°	264.7	298.5	356.6	338.2	494.8	951.3	2921.6	6582.9	7215.1	7221.1
55°	254.4	297.8	338.2	312.4	473.5	963.8	3130.4	7066.7	7593.8	7598.2
57.5°	244.1	289.6	313.9	290.4	430.1	963.8	3381.9	7524.6	8050.3	8054.0
60°	233.8	301.5	275.7	271.3	373.5	946.2	3647.3	7726.1	8193.7	8231.2
62.5°	223.5	303.6	246.3	254.4	332.3	903.6	3845.0	7503.3	7999.6	8053.2
65°	211.7	244.8	227.1	236.7	311.0	832.3	3782.5	7095.3	7635.0	7698.9
67.5°	197.8	207.3	206.6	218.4	303.6	727.1	3453.2	6579.2	7242.4	7238.7
70°	180.9	186.0	188.2	200.7	289.6	645.5	2877.5	5909.5	6718.1	6800.5
72.5°	163.2	167.6	169.8	180.9	275.7	599.2	2233.5	4986.8	5819.0	5947.7
75°	144.1	147.0	149.9	159.5	261.0	530.8	1591.0	3806.8	4456.7	4658.9
77.5°	124.3	124.3	127.9	137.5	219.8	438.2	1067.5	2670.2	3019.4	3226.0
80°	100.7	101.5	100.0	110.2	161.8	300.0	606.5	1783.6	2009.3	2049.0
82.5°	77.2	75.0	75.7	80.9	120.6	204.4	323.5	1107.9	1129.2	1107.2
85°	48.5	48.5	47.1	52.9	77.2	106.6	176.4	678.5	530.1	504.3
87.5°	19.9	16.2	18.4	21.3	36.7	43.4	69.1	139.7	53.6	49.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)