

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: P652290

Luminaire Tested: **GALN-SA3B-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652290
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-SA3B-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA 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: 10259.4 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

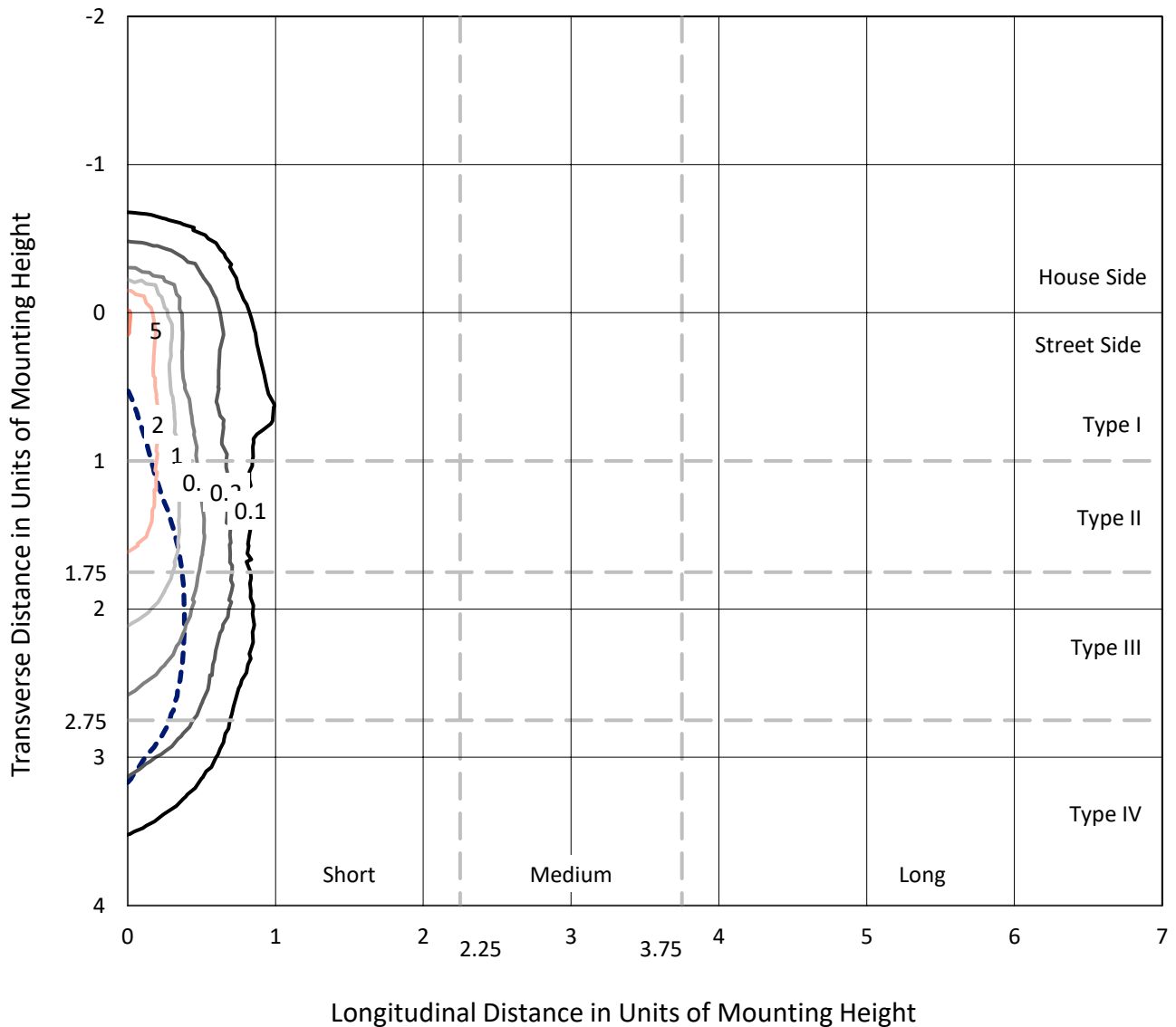
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

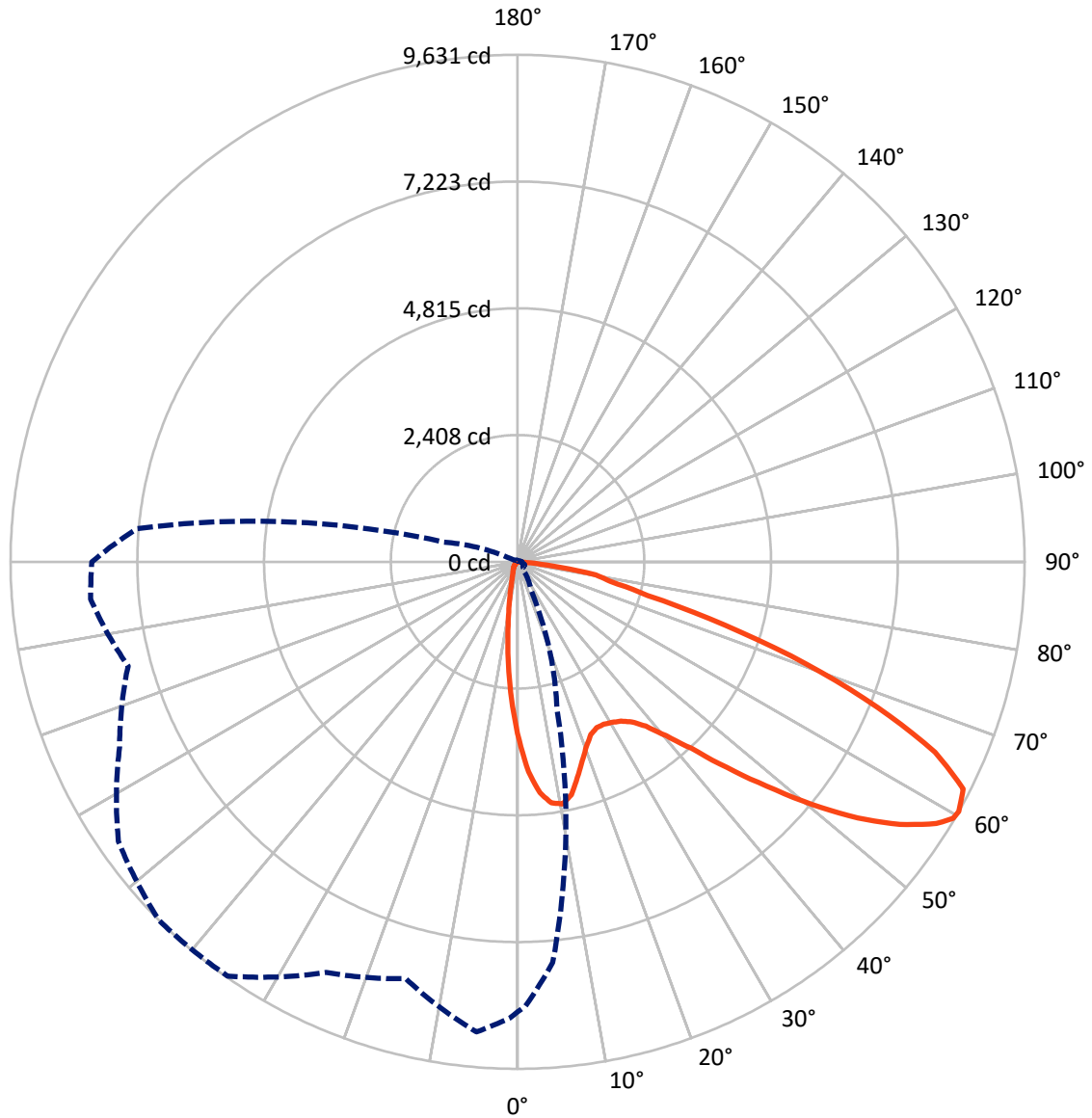
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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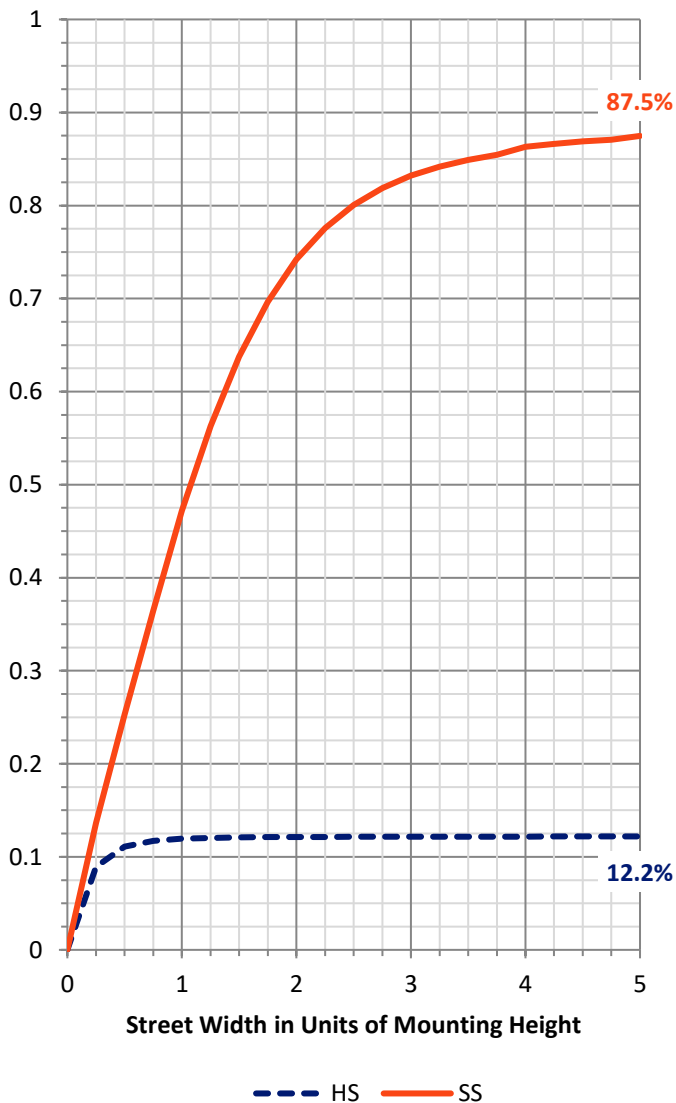
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1265.4	0.0	1265.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	8994.0	0.0	8994.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	10259.4	0.0	10259.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	2.5
10°-20°	500.9	4.9
20°-30°	734.4	7.2
30°-40°	1092.2	10.6
40°-50°	1589.5	15.5
50°-60°	2292.2	22.3
60°-70°	2521.2	24.6
70°-80°	1129.3	11.0
80°-90°	147.6	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°	10259.4	100.0
0°-180°	10259.4	100.0

Coefficient of Utilization



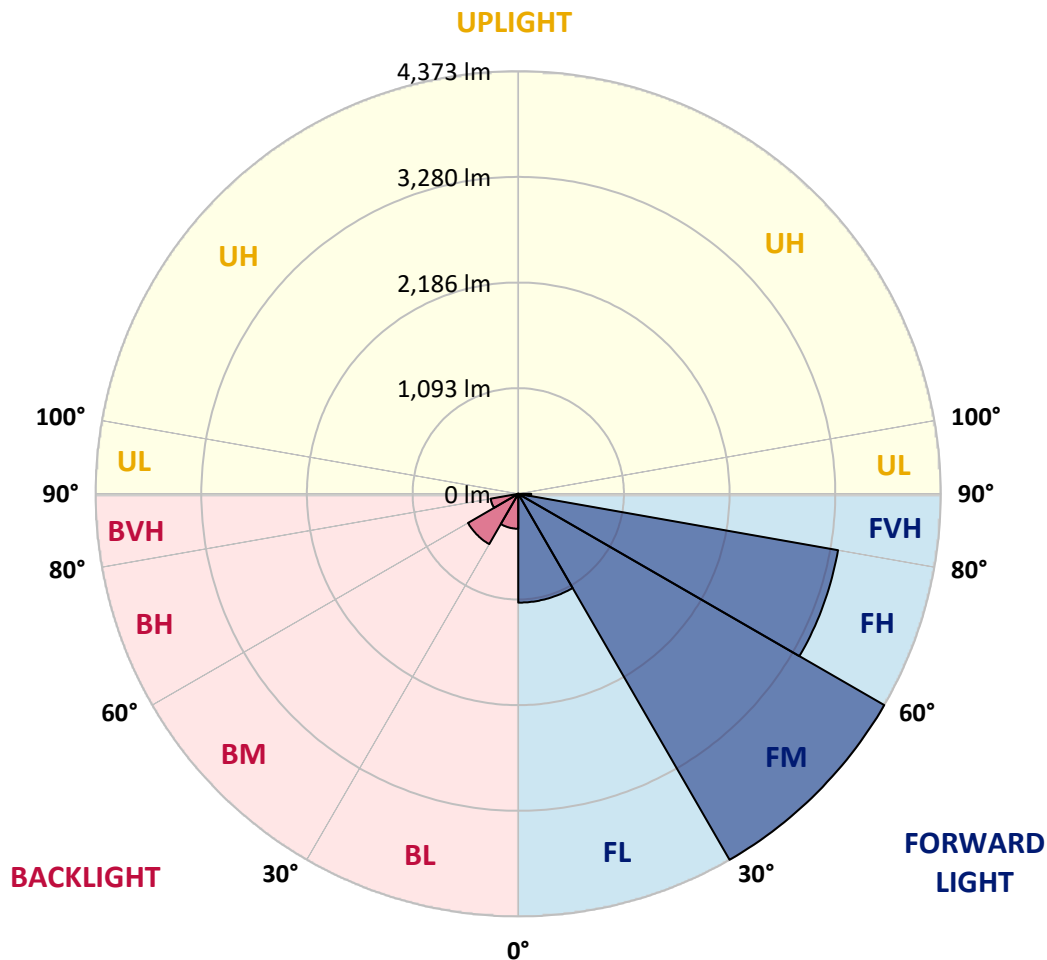
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.9	11.0			
FM (30°-60°)	4372.9	42.6			
FH (60°-80°)	3360.2	32.8			G2/5000
FVH (80°-90°)	134.9	1.3			G2/225
BL (0°-30°)	361.6	3.5	B1/500		
BM (30°-60°)	601.0	5.9	B1/1000		
BH (60°-80°)	290.2	2.8	B1/500		G1/500
BVH (80°-90°)	12.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8
2.5°	3727.7	3711.4	3674.0	3560.1	3461.1	3331.6	3200.6	3097.7	3034.5	2918.3	2865.2
5°	3611.6	3619.3	3510.9	3277.0	3016.5	2838.7	2644.5	2490.1	2320.1	2212.5	2099.4
7.5°	3308.2	3292.6	3174.9	2848.9	2532.3	2274.9	2029.2	1829.6	1704.0	1603.4	1519.2
10°	3048.5	3036.8	2886.3	2466.7	2126.7	1934.0	1768.0	1593.3	1458.4	1311.0	1193.2
12.5°	2885.5	2859.0	2685.9	2247.6	1970.7	1791.3	1610.4	1428.7	1242.3	1093.4	950.7
15°	2830.9	2792.7	2600.1	2172.0	1870.9	1643.1	1416.2	1207.3	992.8	828.2	720.6
17.5°	2930.0	2866.8	2661.7	2158.7	1751.6	1449.8	1170.6	898.4	675.4	549.8	483.5
20°	3156.9	3084.4	2817.7	2145.4	1619.0	1233.0	889.9	634.8	467.2	398.5	361.9
22.5°	3493.8	3394.0	3048.5	2166.5	1496.6	1021.6	642.6	448.4	371.2	328.3	302.6
25°	3898.5	3815.1	3341.0	2241.3	1399.8	855.5	496.8	366.5	312.8	286.2	266.7
27.5°	4342.3	4209.0	3719.2	2331.0	1311.7	726.9	436.0	327.6	278.4	254.2	244.1
30°	4658.1	4554.4	4035.8	2393.4	1201.8	630.2	398.5	322.9	279.2	250.4	231.6
32.5°	4970.1	4837.5	4301.0	2422.2	1121.5	563.0	344.7	281.6	244.9	230.1	211.3
35°	5303.9	5165.1	4565.4	2406.7	1061.4	518.6	312.8	251.1	209.7	184.9	166.1
37.5°	5641.6	5494.9	4828.2	2350.5	1024.0	500.6	287.8	238.7	198.1	172.3	152.1
40°	6042.4	5846.6	5074.6	2304.5	985.0	491.3	271.4	230.9	189.5	162.2	142.0
42.5°	6370.0	6183.5	5307.8	2280.4	958.5	469.4	271.4	224.6	184.0	153.7	132.5
45°	6680.3	6487.0	5559.7	2299.8	947.6	442.2	274.5	223.8	180.1	147.4	126.3
47.5°	6940.0	6772.4	5818.6	2373.1	933.5	412.5	258.1	234.7	177.8	142.0	120.1
50°	7246.6	7084.3	6160.9	2521.3	908.5	382.9	237.8	252.6	177.0	137.3	114.6
52.5°	7678.6	7503.1	6633.6	2689.8	868.8	337.7	219.2	250.4	173.9	129.4	109.2
55°	8206.6	8064.6	7181.0	2891.8	814.2	287.0	189.5	222.3	164.6	116.2	99.8
57.5°	8545.0	8424.1	7591.2	2979.1	730.7	234.7	166.9	186.4	150.5	103.7	88.9
59°	8584.8	8475.6	7677.0	2950.2	676.2	214.5	156.0	159.9	146.6	96.7	82.7
60°	8551.3	8438.2	7642.7	2894.0	625.5	200.4	146.6	142.0	147.4	92.8	78.0
62.5°	8336.0	8142.6	7309.7	2609.5	546.6	184.0	130.3	116.2	130.3	83.4	69.4
65°	7920.4	7630.2	6650.7	2208.6	515.5	174.7	110.8	97.5	99.1	73.3	60.0
67.5°	7194.3	6828.5	5773.4	1794.4	502.2	175.4	93.6	87.4	76.4	62.4	53.1
70°	6046.3	5681.4	4632.4	1476.3	496.0	175.4	79.6	74.8	63.9	52.2	46.0
72.5°	4284.6	3891.6	3124.9	1159.7	446.8	174.7	67.9	67.9	52.2	43.6	37.4
75°	2420.7	2423.8	1964.5	820.4	371.2	144.3	54.6	53.8	38.2	33.6	28.1
77.5°	1410.8	1385.8	1324.2	352.5	172.3	65.5	38.2	32.7	26.5	24.1	20.3
80°	725.3	596.6	581.0	127.9	61.6	41.3	26.5	18.8	17.2	15.6	14.0
82.5°	214.5	215.2	191.8	51.5	34.3	27.3	13.3	10.2	9.3	8.6	8.6
85°	14.8	9.3	10.9	15.6	21.0	10.9	0.8	2.4	2.4	3.1	3.9
87.5°	1.6	0.8	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°	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8
2.5°	2806.8	2841.1	2777.2	2778.7	2725.6	2742.8	2680.4	2700.7	2664.0	2692.1	2774.8
5°	2111.9	2119.7	2068.2	2051.9	2059.6	2091.6	2104.1	2047.2	2071.3	2023.8	2020.7
7.5°	1488.0	1497.3	1467.7	1463.8	1519.9	1506.7	1530.9	1472.4	1417.0	1441.2	1396.7
10°	1155.8	1116.8	1056.0	1038.8	1027.9	1034.9	1034.9	981.9	974.0	953.0	985.0
12.5°	912.5	864.9	807.2	729.1	709.7	708.1	679.3	632.4	617.6	599.7	626.2
15°	662.9	643.4	595.0	551.4	507.0	498.4	451.5	413.4	362.6	355.7	353.3
17.5°	466.3	437.5	436.7	411.8	386.0	368.9	325.2	281.6	262.1	259.7	259.7
20°	349.4	339.3	322.9	319.7	311.9	292.4	253.5	230.1	220.7	221.5	224.6
22.5°	294.0	287.0	272.1	265.2	262.1	244.9	216.1	200.4	195.8	195.8	196.5
25°	262.8	256.6	240.2	229.3	225.4	212.9	190.3	178.6	174.7	174.7	174.7
27.5°	239.4	231.6	214.5	205.1	198.1	184.0	170.1	158.3	154.4	154.4	155.2
30°	223.0	214.5	198.9	186.4	175.4	163.0	151.3	141.1	136.5	135.7	136.5
32.5°	201.2	193.4	177.8	170.1	157.5	142.7	133.4	124.0	119.3	120.1	119.3
35°	156.8	154.4	143.5	145.8	138.8	126.3	117.7	107.6	102.2	101.4	102.9
37.5°	142.7	133.4	120.9	121.7	119.3	114.6	100.6	89.7	85.8	85.8	86.5
40°	131.8	122.4	108.4	101.4	102.2	102.2	87.4	75.6	71.7	71.0	72.5
42.5°	122.4	113.1	97.5	85.8	82.7	86.5	74.1	62.4	58.4	56.9	58.4
45°	116.2	106.1	88.1	74.8	65.5	70.2	60.8	51.5	46.8	46.8	46.0
47.5°	110.0	100.6	81.1	64.8	54.6	52.2	49.9	41.3	36.7	35.9	36.7
50°	104.5	95.1	73.3	56.2	46.0	40.5	40.5	32.7	29.6	28.1	28.8
52.5°	99.1	88.9	66.3	49.9	39.8	32.7	28.8	26.5	24.1	23.4	24.1
55°	91.2	81.1	59.3	42.9	34.3	27.3	22.6	21.9	20.3	18.8	20.3
57.5°	81.9	72.5	52.2	36.7	27.3	21.0	18.8	17.9	16.4	15.6	15.6
59°	76.4	67.9	48.4	32.0	24.1	18.8	17.2	16.4	14.8	13.3	14.0
60°	73.3	66.3	46.0	29.6	21.9	17.2	15.6	14.8	13.3	12.4	13.3
62.5°	64.8	59.3	40.5	24.1	17.2	12.4	10.9	11.7	10.9	10.2	10.9
65°	56.9	52.2	34.3	18.8	13.3	8.6	7.8	10.2	9.3	8.6	9.3
67.5°	50.7	45.2	28.8	14.0	9.3	4.7	5.5	8.6	8.6	7.8	8.6
70°	43.6	39.0	23.4	10.2	4.7	2.4	3.9	6.2	7.8	7.0	7.8
72.5°	35.9	30.4	17.9	7.0	2.4	0.0	2.4	5.5	7.8	7.0	7.8
75°	28.1	22.6	13.3	3.9	0.0	0.0	0.8	4.7	7.8	7.0	7.8
77.5°	20.3	16.4	7.8	0.8	0.0	0.0	0.8	4.7	7.8	7.0	7.8
80°	13.3	11.7	3.1	0.0	0.0	0.0	0.8	4.7	7.8	7.8	8.6
82.5°	8.6	6.2	0.0	0.0	0.0	0.0	1.6	6.2	8.6	9.3	9.3
85°	3.9	0.0	0.0	0.0	0.0	0.0	3.1	7.8	10.2	10.2	10.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	5.5	9.3	11.7	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8
2.5°	2788.8	2838.0	2907.3	3014.2	3100.8	3237.3	3341.7	3484.4	3628.7	3672.4	3740.3
5°	2052.6	2115.8	2273.3	2416.8	2507.3	2795.8	2978.3	3266.1	3524.2	3648.3	3783.2
7.5°	1425.6	1500.4	1620.6	1821.0	2011.3	2246.1	2540.8	2869.9	3248.1	3425.1	3615.5
10°	1000.5	1094.1	1263.4	1427.9	1667.4	1890.4	2181.3	2544.7	2961.9	3170.9	3409.6
12.5°	631.7	715.1	939.0	1123.8	1422.5	1681.4	1949.7	2278.8	2762.3	2976.7	3227.1
15°	361.0	431.3	535.8	772.9	1104.3	1446.7	1781.2	2163.4	2660.2	2924.5	3195.1
17.5°	269.0	287.8	334.5	468.7	770.5	1170.6	1626.0	2128.2	2729.5	3040.0	3348.8
20°	226.1	238.7	260.5	313.5	491.3	901.6	1474.7	2134.5	2954.2	3344.1	3637.3
22.5°	202.8	210.6	228.5	262.8	335.3	656.7	1297.7	2171.1	3226.3	3717.6	4056.1
25°	177.8	188.0	203.5	233.2	279.2	455.4	1123.0	2253.0	3607.6	4191.8	4509.9
27.5°	158.3	167.7	183.3	210.6	244.9	347.8	919.5	2323.3	4010.1	4669.1	4929.5
30°	138.8	148.2	163.7	185.6	216.8	281.6	700.3	2364.6	4400.8	5027.0	5227.5
32.5°	122.4	130.3	145.1	164.6	190.3	238.7	552.1	2321.7	4699.5	5352.2	5486.3
35°	106.1	115.4	127.9	145.8	168.5	203.5	459.4	2173.5	4956.1	5686.8	5735.1
37.5°	88.9	99.8	113.1	129.4	147.4	187.2	368.9	2009.7	5230.6	6104.1	6024.5
40°	74.8	85.0	97.5	115.4	131.8	171.6	283.8	1835.1	5526.9	6495.5	6340.3
42.5°	60.8	71.7	86.5	102.9	130.3	149.7	219.9	1654.1	5792.9	6836.3	6625.7
45°	48.4	57.7	73.3	94.4	129.4	128.7	170.1	1475.5	5993.3	7079.6	6838.7
47.5°	38.2	46.0	61.6	92.0	119.3	109.2	136.5	1364.8	6203.9	7298.8	7001.7
50°	30.4	38.2	53.1	96.0	104.5	93.6	114.6	1382.7	6407.4	7410.3	7068.7
52.5°	25.7	33.6	46.0	75.6	80.3	81.9	100.6	1465.4	6670.2	7529.6	7202.1
55°	22.6	29.6	39.0	53.1	62.4	73.3	92.0	1525.4	7021.9	7785.4	7496.1
57.5°	17.9	25.7	35.1	45.2	51.5	63.9	85.0	1530.1	7340.1	8113.7	7886.8
59°	16.4	23.4	32.7	42.9	46.0	57.7	80.3	1490.3	7351.9	8162.9	8066.2
60°	14.8	22.6	31.2	39.8	43.6	54.6	76.4	1444.3	7245.7	8084.9	8140.3
62.5°	12.4	19.5	27.3	32.0	37.4	45.2	66.3	1277.4	6731.8	7731.6	8003.0
65°	10.9	17.2	23.4	26.5	31.2	39.0	58.4	1022.4	6164.1	7252.8	7610.0
67.5°	10.2	15.6	20.3	22.6	27.3	35.9	52.2	722.2	5428.7	6645.2	7019.6
70°	9.3	14.8	17.9	21.0	24.1	30.4	44.5	421.1	4181.6	5580.0	5975.3
72.5°	9.3	14.0	15.6	17.9	21.0	27.3	41.3	227.7	2859.0	4256.6	4767.3
75°	9.3	13.3	14.0	15.6	18.8	25.0	36.7	119.3	1848.3	2957.3	3649.8
77.5°	9.3	12.4	14.0	14.8	17.9	21.9	32.0	74.8	1231.4	2071.3	2466.7
80°	10.2	12.4	13.3	14.8	17.2	20.3	26.5	49.9	723.7	1246.2	1501.3
82.5°	10.9	12.4	14.0	15.6	17.9	19.5	23.4	31.2	333.8	824.3	932.8
85°	11.7	13.3	14.8	16.4	18.8	19.5	21.9	22.6	54.6	372.0	503.0
87.5°	12.4	14.0	15.6	17.2	20.3	20.3	20.3	20.3	18.8	39.8	101.4
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-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8
2.5°	3826.0	3914.2	3975.7	3991.4	3946.9	3926.6	3870.5	3783.2	3730.1	3727.7
5°	4031.9	4238.6	4382.1	4406.3	4320.5	4175.4	4003.1	3780.8	3650.5	3611.6
7.5°	3996.9	4358.7	4589.5	4623.1	4478.7	4201.9	3868.2	3510.2	3368.3	3308.2
10°	3852.5	4294.0	4623.8	4676.9	4484.2	4094.3	3670.0	3270.7	3094.5	3048.5
12.5°	3729.3	4175.4	4468.7	4542.0	4396.1	4006.9	3551.5	3117.2	2928.4	2885.5
15°	3675.5	4035.0	4214.4	4251.8	4227.6	3952.4	3539.0	3093.7	2877.7	2830.9
17.5°	3729.3	3915.7	3938.3	3976.6	4030.3	3946.9	3659.1	3220.9	2987.7	2930.0
20°	3870.5	3812.0	3718.4	3734.8	3858.0	3969.5	3872.8	3502.3	3218.5	3156.9
22.5°	4110.7	3786.3	3574.2	3560.1	3716.0	4045.2	4186.3	3883.7	3554.7	3493.8
25°	4405.5	3851.0	3521.1	3490.7	3660.7	4155.9	4527.1	4350.9	3991.4	3898.5
27.5°	4726.8	3985.2	3521.1	3491.5	3656.0	4254.2	4818.8	4764.2	4443.7	4342.3
30°	4903.0	4095.8	3571.8	3538.3	3713.8	4311.1	4974.8	5131.5	4783.7	4658.1
32.5°	5060.5	4249.5	3670.8	3607.6	3834.6	4395.3	5114.4	5443.5	5054.3	4970.1
35°	5205.6	4414.1	3807.3	3734.0	3993.7	4510.8	5268.8	5771.0	5431.0	5303.9
37.5°	5365.5	4605.1	4020.2	3957.8	4259.7	4735.3	5452.0	6201.5	5801.5	5641.6
40°	5539.4	4826.6	4370.3	4343.8	4682.4	4989.6	5683.6	6660.9	6224.2	6042.4
42.5°	5716.4	5081.7	4799.3	4843.0	5161.1	5346.0	5921.6	7014.1	6570.4	6370.0
45°	5877.1	5407.6	5356.9	5573.0	5719.6	5693.8	6097.8	7262.9	6872.2	6680.3
47.5°	6079.8	5882.5	6031.5	6364.5	6368.4	6072.0	6231.1	7466.5	7131.8	6940.0
50°	6306.8	6443.2	6902.6	7241.9	7150.6	6444.1	6387.1	7707.4	7400.1	7246.6
52.5°	6569.6	7071.0	7707.4	8084.1	7871.2	6849.6	6646.8	7967.9	7826.0	7678.6
55°	6875.3	7499.2	8509.9	8810.1	8595.7	7353.4	7041.4	8321.2	8307.1	8206.6
57.5°	7220.8	7951.6	8974.7	9381.0	9189.9	7944.5	7592.8	8654.2	8601.2	8545.0
59°	7493.7	8183.9	9179.9	9600.9	9485.6	8358.6	7963.3	8861.6	8669.0	8584.8
60°	7659.1	8341.5	9255.5	9630.6	9604.1	8605.0	8198.0	8963.0	8668.3	8551.3
62.5°	8149.6	8616.7	9226.6	9498.8	9602.5	9077.7	8886.6	9074.6	8507.6	8336.0
65°	8324.3	8525.6	8748.6	8715.0	8803.9	9053.4	9326.4	8952.1	8164.4	7920.4
67.5°	7984.3	7524.9	7603.7	7379.9	7336.2	8049.0	9147.8	8353.1	7493.0	7194.3
70°	6730.3	5764.8	5725.0	5828.0	5545.6	6516.6	8214.4	7199.7	6384.8	6046.3
72.5°	5297.6	4074.1	3738.7	4117.7	4109.1	4971.7	6823.9	5108.9	4313.5	4284.6
75°	4166.1	2836.4	2489.4	2550.9	2669.5	3599.1	5434.9	3244.2	2656.2	2420.7
77.5°	2796.6	2009.7	1874.8	1799.2	1927.1	2310.7	3438.4	1759.4	1489.6	1410.8
80°	1611.9	1459.9	1658.0	1505.1	1573.8	1456.0	1710.3	807.2	669.9	725.3
82.5°	1048.9	831.3	885.9	658.2	900.0	907.8	549.0	238.7	202.0	214.5
85°	655.9	390.0	219.2	156.0	310.4	570.9	171.6	14.8	17.2	14.8
87.5°	170.1	64.8	27.3	40.5	49.9	44.5	39.8	2.4	0.8	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)