

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: P652284

Luminaire Tested: **GALN-SA3B-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7897.8 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

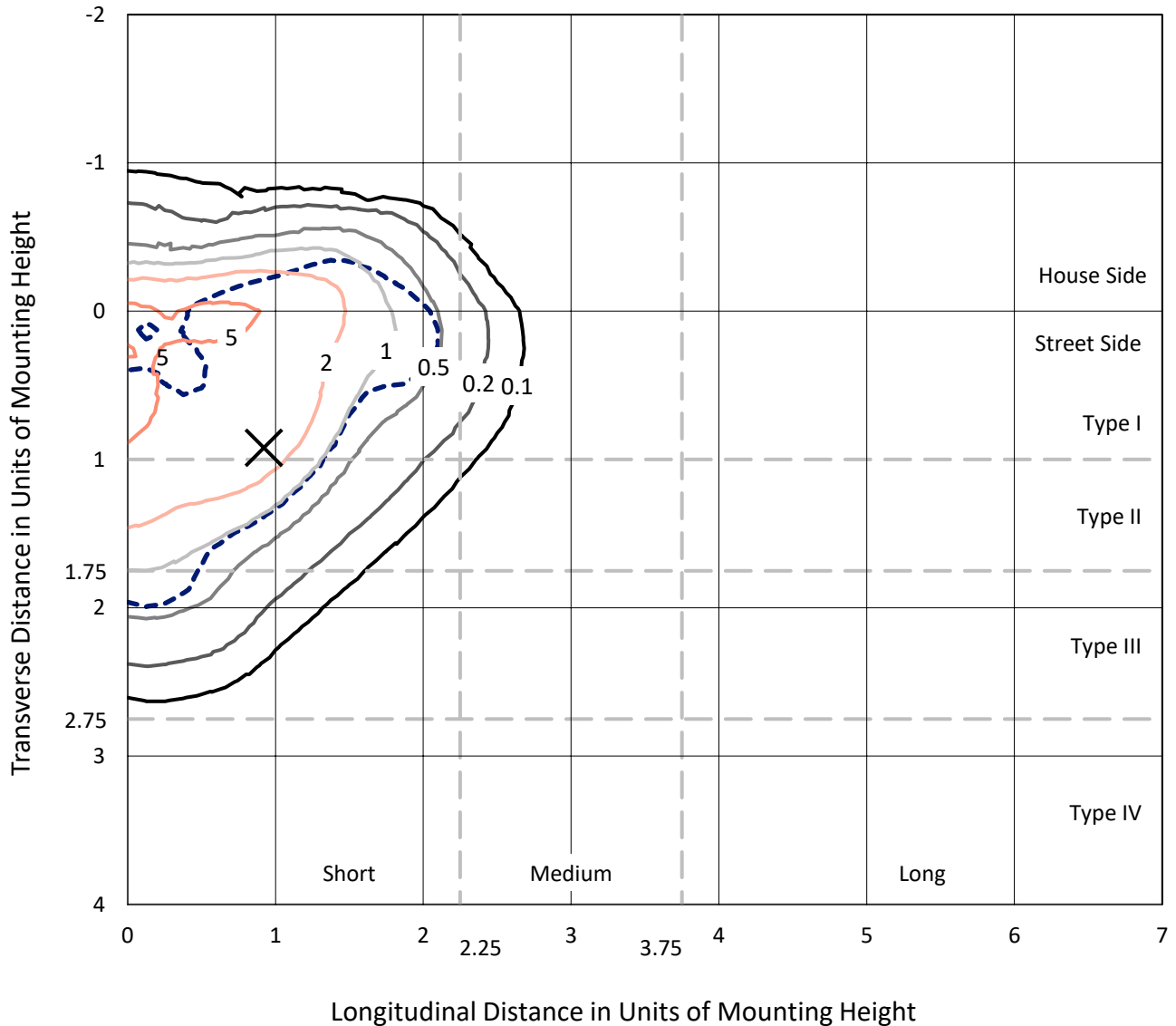
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

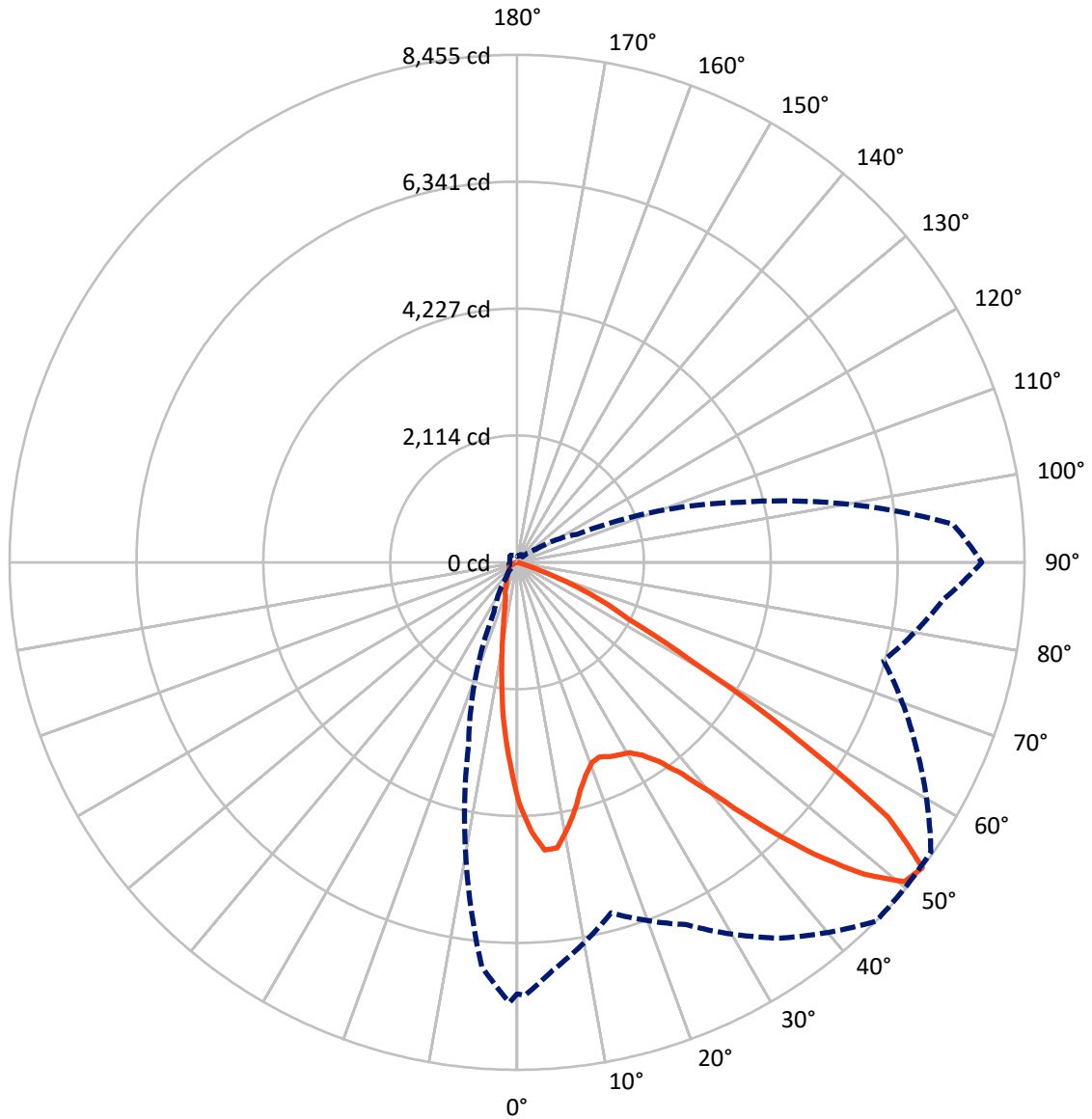
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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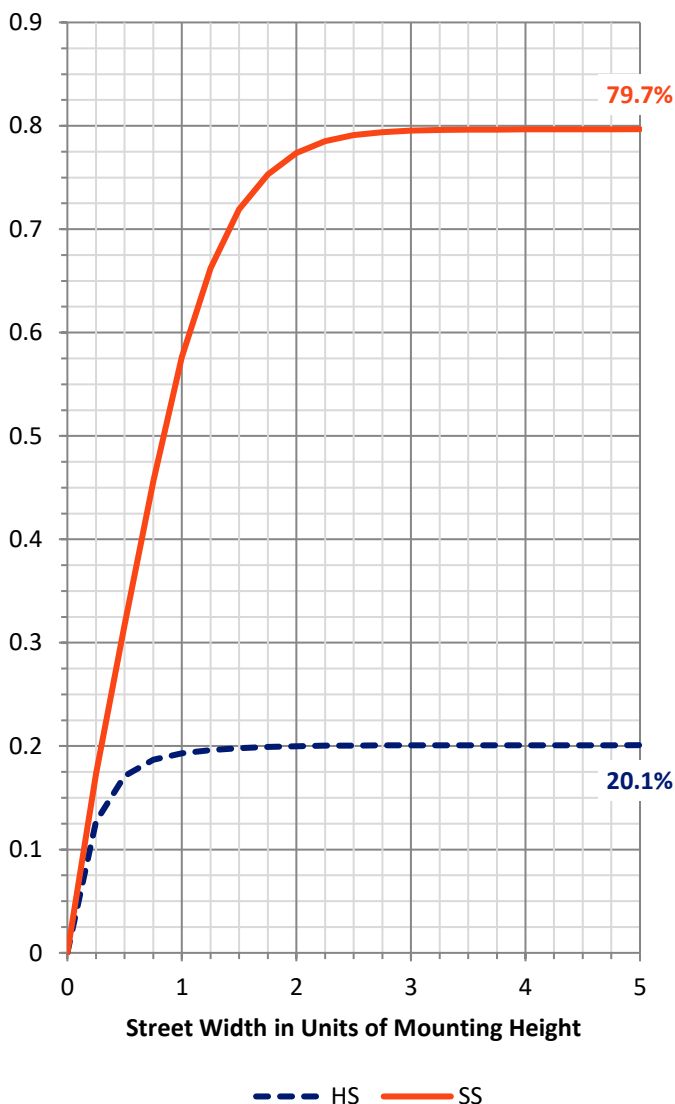
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1602.9	0.0	1602.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	6295.0	0.0	6295.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	7897.8	0.0	7897.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.0	3.7
10°-20°	576.2	7.3
20°-30°	876.9	11.1
30°-40°	1310.6	16.6
40°-50°	1866.4	23.6
50°-60°	2006.3	25.4
60°-70°	889.1	11.3
70°-80°	71.9	0.9
80°-90°	8.4	0.1
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°	7897.8	100.0
0°-180°	7897.8	100.0

Coefficient of Utilization



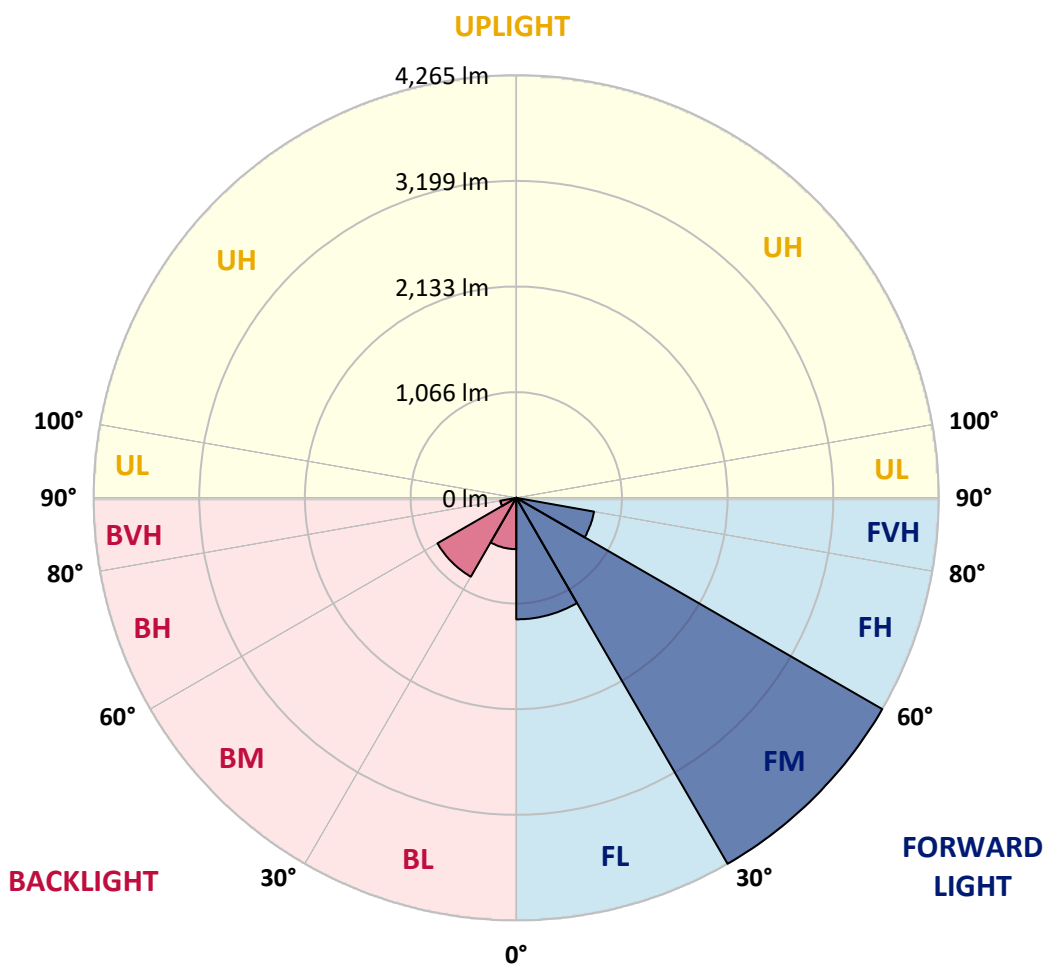
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.7	15.5			
FM (30°-60°)	4265.1	54.0			
FH (60°-80°)	797.0	10.1			G1/1800
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	518.4	6.6	B2/1000		
BM (30°-60°)	918.3	11.6	B1/1000		
BH (60°-80°)	164.0	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6
2.5°	4237.5	4250.0	4318.4	4403.8	4448.8	4551.3	4479.9	4498.5	4459.7	4323.0	4215.8
5°	4108.6	4107.1	4194.1	4405.3	4605.7	4809.2	4815.4	4706.7	4515.7	4305.9	4006.1
7.5°	3720.3	3780.9	3871.0	4208.0	4579.3	4731.6	4804.5	4677.1	4383.6	4083.8	3759.1
10°	3426.7	3457.8	3610.0	4017.0	4288.8	4492.3	4537.4	4464.4	4239.1	3864.7	3501.3
12.5°	3257.4	3272.9	3451.5	3793.3	4080.7	4231.3	4253.1	4287.2	4125.7	3774.7	3338.2
15°	3259.0	3271.4	3512.2	3798.0	3911.4	3871.0	3942.4	3940.8	4010.8	3757.6	3474.8
17.5°	3493.5	3507.5	3725.0	3866.3	3816.6	3721.8	3717.2	3788.6	3936.2	3970.4	3681.5
20°	3897.4	3930.0	4090.0	4082.2	3802.7	3611.6	3558.8	3613.1	3956.4	4150.6	4097.8
22.5°	4441.1	4486.1	4597.9	4383.6	3866.3	3537.0	3519.9	3625.6	4090.0	4552.9	4570.0
25°	5071.7	5147.8	5202.2	4927.3	4093.1	3665.9	3585.2	3766.9	4270.2	4989.4	5171.1
27.5°	5489.5	5568.8	5556.4	5163.4	4245.4	3700.1	3631.8	3801.1	4427.1	5093.4	5484.9
30°	5815.8	5864.0	5950.9	5290.7	4397.6	3796.4	3679.9	3945.6	4478.3	5273.7	5864.0
32.5°	6196.3	6229.0	6235.2	5516.0	4632.1	3917.5	3829.1	4125.7	4705.1	5446.1	6199.4
35°	6580.1	6628.2	6527.3	5794.1	4776.6	4142.9	4077.6	4438.0	4886.9	5624.7	6569.1
37.5°	6996.4	7021.2	6788.2	5909.0	4983.2	4509.4	4473.7	4775.0	5202.2	5947.8	6979.3
40°	7345.9	7369.2	7066.3	6050.3	5200.7	5022.0	5113.7	5418.1	5630.9	6157.5	7184.3
42.5°	7540.0	7594.4	7159.4	5972.7	5637.1	5603.0	6010.0	6117.2	6128.0	6216.6	7367.6
45°	7592.8	7568.0	7005.7	6036.4	6019.3	6558.3	6928.0	7069.4	6621.9	6325.3	7414.2
47.5°	7349.0	7381.5	6778.9	5980.4	6521.0	7282.1	7760.6	8023.1	6990.1	6230.5	7299.2
50°	7151.7	7109.7	6705.9	5940.1	6656.2	7623.9	8361.7	8420.8	7328.7	6347.0	7173.4
52.5°	7190.6	7217.0	6822.4	6047.2	6659.3	7644.1	8454.9	8414.5	7339.7	6320.6	7128.4
55°	7272.8	7156.3	6772.7	5811.1	6213.5	7080.2	7504.3	7442.2	6774.2	6039.5	7018.1
57.5°	6275.5	6455.8	6227.4	5188.2	5099.7	5334.2	5326.5	5517.5	5053.1	5197.5	6389.0
60°	5093.4	5124.5	5210.0	4438.0	3529.3	3448.4	3336.6	3215.5	3400.3	4444.2	5811.1
62.5°	4479.9	4442.6	4747.1	4037.2	2491.6	2086.2	2067.5	2142.1	2623.7	4239.1	5450.8
65°	3255.8	3302.4	3523.0	3133.1	1870.2	1592.2	1564.3	1784.9	2123.4	3397.2	4159.9
67.5°	1988.3	2078.4	2098.6	1932.4	1269.1	1008.1	967.7	1168.1	1533.1	2198.0	2438.8
70°	918.0	1026.8	1129.3	1054.7	734.8	414.8	391.5	490.9	773.6	1264.4	1294.0
72.5°	278.0	279.6	391.5	408.6	237.7	93.2	82.3	108.7	262.6	417.9	439.6
75°	20.2	21.8	52.8	60.6	45.1	23.3	24.9	29.5	55.9	93.2	69.9
77.5°	1.5	1.5	1.5	7.7	14.0	15.6	20.2	23.3	29.5	34.1	31.0
80°	1.5	0.0	1.5	6.2	10.8	15.6	18.7	21.8	23.3	26.4	23.3
82.5°	0.0	0.0	0.0	4.6	10.8	15.6	17.1	23.3	26.4	31.0	26.4
85°	0.0	0.0	0.0	4.6	10.8	17.1	15.6	7.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6
2.5°	4234.4	4173.9	4035.6	3965.7	3801.1	3777.8	3616.2	3589.8	3535.5	3506.0	3434.5
5°	3874.1	3801.1	3575.8	3386.4	3165.8	3012.0	2893.9	2786.7	2724.6	2667.1	2693.6
7.5°	3580.5	3367.7	3117.6	2800.7	2546.0	2381.3	2201.1	2053.6	1966.6	1907.6	1921.5
10°	3272.9	3134.7	2786.7	2431.0	2123.4	2007.0	1865.6	1752.2	1629.4	1523.8	1474.1
12.5°	3176.6	2971.6	2535.1	2173.1	1940.2	1826.7	1665.2	1534.7	1377.8	1248.9	1203.9
15°	3193.7	2996.4	2466.7	2080.0	1805.0	1609.3	1416.7	1255.1	1082.7	992.6	946.0
17.5°	3471.7	3130.0	2511.8	1982.1	1617.1	1345.2	1107.5	902.5	773.6	680.4	660.2
20°	3813.5	3418.9	2608.1	1910.7	1463.3	1070.3	809.3	632.2	525.0	509.5	504.9
22.5°	4313.7	3891.1	2814.7	1862.5	1275.3	834.2	554.6	459.8	430.3	427.1	428.7
25°	5012.7	4483.0	3040.0	1822.1	1133.9	643.1	453.6	389.9	380.6	375.9	383.7
27.5°	5315.6	4840.3	3159.6	1735.1	1005.0	579.4	447.3	386.8	360.4	352.6	357.3
30°	5690.0	5078.0	3347.5	1586.0	815.5	476.8	417.9	420.9	408.6	369.7	357.3
32.5°	6187.1	5374.7	3442.2	1480.3	728.6	394.5	306.0	281.1	313.8	320.0	330.8
35°	6505.5	5676.0	3490.4	1418.2	683.5	337.1	259.4	236.2	228.3	229.9	236.2
37.5°	7097.3	6083.0	3551.0	1353.0	649.3	293.6	234.6	212.8	201.9	201.9	208.1
40°	7451.5	6406.1	3633.3	1317.3	615.1	267.2	212.8	194.2	184.9	184.9	188.0
42.5°	7540.0	6566.0	3605.4	1304.8	576.3	261.0	194.2	180.2	169.3	167.8	166.2
45°	7698.4	6809.9	3610.0	1290.9	535.9	237.7	183.3	167.8	152.2	150.7	149.1
47.5°	7872.4	6985.4	3619.3	1236.4	497.1	198.8	191.1	155.3	136.7	133.6	133.6
50°	7723.3	7125.3	3700.1	1182.1	447.3	161.6	188.0	146.0	121.2	116.5	118.1
52.5°	7742.0	7290.0	3871.0	1106.0	385.3	128.9	152.2	138.3	110.3	102.5	104.1
55°	7443.7	7116.0	3894.3	1025.2	301.3	99.4	116.5	121.2	93.2	90.1	90.1
57.5°	6407.6	6025.5	3436.1	831.1	198.8	82.3	83.8	105.6	80.7	77.7	79.2
60°	5483.4	4837.2	2765.0	548.3	124.3	65.3	60.6	107.1	71.5	69.9	74.6
62.5°	4998.7	3975.1	2097.0	340.2	85.4	49.7	42.0	87.0	62.1	62.1	68.4
65°	3611.6	2670.3	1219.4	178.6	60.6	38.9	31.0	49.7	51.3	52.8	55.9
67.5°	2236.8	1348.3	514.2	87.0	40.4	26.4	20.2	31.0	34.1	34.1	37.3
70°	1104.4	537.5	170.9	49.7	31.0	21.8	14.0	17.1	17.1	15.6	17.1
72.5°	341.7	161.6	43.5	31.0	21.8	14.0	7.7	6.2	3.1	0.0	1.5
75°	38.9	31.0	27.9	21.8	14.0	6.2	1.5	0.0	0.0	0.0	0.0
77.5°	23.3	26.4	26.4	21.8	14.0	4.6	0.0	0.0	0.0	0.0	0.0
80°	18.7	20.2	21.8	20.2	12.4	6.2	0.0	0.0	0.0	0.0	0.0
82.5°	23.3	26.4	29.5	26.4	17.1	7.7	3.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.6	1.5	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°	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6
2.5°	3405.0	3370.8	3418.9	3347.5	3345.9	3347.5	3327.3	3308.7	3338.2	3417.4	3425.1
5°	2598.8	2671.8	2695.1	2771.2	2729.3	2667.1	2679.5	2637.6	2740.1	2785.1	2749.5
7.5°	1892.0	1887.4	2044.2	2053.6	2073.7	2075.3	2072.2	1989.9	1906.0	1924.6	1980.6
10°	1468.0	1388.7	1464.9	1457.0	1506.7	1492.8	1513.0	1424.4	1453.9	1453.9	1489.7
12.5°	1196.1	1112.2	1098.3	1078.0	1098.3	1106.0	1113.7	1096.7	1146.4	1169.7	1194.6
15°	913.4	866.7	854.4	815.5	821.7	843.4	862.1	869.8	854.4	890.1	893.1
17.5°	663.3	661.7	669.5	667.9	661.7	657.1	655.6	635.3	629.2	632.2	644.6
20°	503.3	515.7	542.1	568.5	582.5	565.4	542.1	508.0	494.0	497.1	498.6
22.5°	430.3	448.9	484.7	514.2	528.1	497.1	455.1	425.6	419.4	417.9	416.3
25°	389.9	411.7	438.1	447.3	445.8	427.1	396.1	383.7	380.6	377.4	363.5
27.5°	368.1	375.9	380.6	391.5	396.1	383.7	375.9	357.3	354.1	354.1	344.8
30°	355.7	351.0	357.3	349.5	355.7	346.4	347.9	347.9	340.2	343.3	343.3
32.5°	330.8	332.4	332.4	316.9	321.5	310.7	321.5	330.8	332.4	334.0	346.4
35°	242.3	270.3	284.3	284.3	288.9	281.1	279.6	268.7	254.7	240.8	234.6
37.5°	212.8	223.7	242.3	253.2	261.0	254.7	240.8	223.7	215.9	209.7	203.5
40°	189.5	198.8	211.3	223.7	239.2	231.4	209.7	201.9	192.6	192.6	186.4
42.5°	170.9	175.5	183.3	201.9	219.0	203.5	188.0	181.7	177.1	175.5	174.0
45°	153.8	155.3	163.1	178.6	198.8	183.3	167.8	160.0	161.6	163.1	161.6
47.5°	138.3	141.4	146.0	164.7	177.1	169.3	152.2	147.6	147.6	147.6	149.1
50°	119.6	127.4	136.7	152.2	161.6	156.9	142.9	136.7	133.6	133.6	135.1
52.5°	107.1	113.4	125.8	144.5	156.9	149.1	135.1	125.8	119.6	118.1	121.2
55°	93.2	104.1	124.3	138.3	155.3	147.6	132.0	121.2	110.3	108.7	108.7
57.5°	83.8	101.0	119.6	136.7	150.7	144.5	132.0	118.1	104.1	102.5	102.5
60°	79.2	97.9	116.5	132.0	150.7	141.4	130.5	115.0	99.4	99.4	97.9
62.5°	74.6	91.7	110.3	125.8	144.5	136.7	125.8	110.3	94.8	94.8	91.7
65°	62.1	79.2	91.7	105.6	125.8	118.1	107.1	96.3	83.8	80.7	82.3
67.5°	43.5	54.3	66.8	80.7	93.2	90.1	85.4	77.7	66.8	65.3	63.7
70°	21.8	29.5	40.4	54.3	65.3	62.1	59.0	52.8	46.6	45.1	45.1
72.5°	3.1	9.3	17.1	24.9	34.1	35.7	34.1	32.6	31.0	29.5	31.0
75°	0.0	0.0	0.0	6.2	14.0	17.1	20.2	23.3	23.3	20.2	24.9
77.5°	0.0	0.0	0.0	0.0	1.5	7.7	15.6	20.2	24.9	21.8	29.5
80°	0.0	0.0	0.0	0.0	1.5	9.3	15.6	21.8	24.9	21.8	31.0
82.5°	0.0	0.0	0.0	0.0	1.5	10.8	15.6	20.2	23.3	21.8	27.9
85°	0.0	0.0	0.0	0.0	4.6	9.3	6.2	3.1	1.5	1.5	4.6
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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CATALOG NUMBER: GALN-SA3B-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6
2.5°	3468.6	3579.0	3697.0	3742.0	3881.9	3987.5	4058.9	4212.7	4236.0	4237.5
5°	2786.7	2842.7	3044.6	3139.4	3347.5	3509.1	3681.5	3930.0	4096.2	4108.6
7.5°	1980.6	2135.9	2221.3	2468.3	2724.6	2977.8	3234.1	3523.0	3715.6	3720.3
10°	1593.8	1694.7	1846.9	2031.8	2247.7	2505.6	2847.3	3182.8	3378.5	3426.7
12.5°	1283.1	1460.1	1634.1	1825.2	1989.9	2184.0	2552.2	2999.5	3161.1	3257.4
15°	987.9	1149.5	1354.5	1578.2	1764.6	2024.0	2443.4	2954.5	3226.3	3259.0
17.5°	728.6	873.0	1062.5	1273.8	1553.3	1921.5	2462.1	3182.8	3439.2	3493.5
20°	523.5	607.4	756.5	1001.9	1357.6	1801.9	2480.7	3414.3	3804.2	3897.4
22.5°	414.8	448.9	546.8	764.2	1138.6	1676.1	2612.7	3857.0	4305.9	4441.1
25°	360.4	379.0	425.6	602.7	1000.4	1663.7	2824.0	4388.3	4973.8	5071.7
27.5°	347.9	351.0	391.5	553.0	925.8	1581.3	2904.8	4765.7	5390.1	5489.5
30°	366.6	416.3	419.4	467.6	787.6	1418.2	2946.7	5130.8	5742.8	5815.8
32.5°	316.9	301.3	312.3	362.0	692.8	1323.5	3025.9	5449.2	6145.1	6196.3
35°	220.6	231.4	256.3	313.8	605.8	1224.1	3046.1	5800.3	6527.3	6580.1
37.5°	203.5	209.7	229.9	267.2	532.8	1168.1	3018.2	6056.5	6923.4	6996.4
40°	189.5	197.3	208.1	242.3	478.4	1106.0	2979.3	6288.0	7165.7	7345.9
42.5°	178.6	184.9	194.2	231.4	431.9	1043.8	2925.0	6614.2	7383.1	7540.0
45°	166.2	175.5	186.4	225.2	405.4	1001.9	2884.6	6594.0	7509.0	7592.8
47.5°	153.8	169.3	181.7	209.7	397.6	981.7	2901.7	6517.9	7406.4	7349.0
50°	141.4	161.6	183.3	174.0	379.0	941.3	2921.9	6621.9	7162.5	7151.7
52.5°	130.5	153.8	170.9	142.9	337.1	902.5	3117.6	6758.7	7334.9	7190.6
55°	115.0	138.3	136.7	115.0	273.4	873.0	3271.4	6761.8	7218.5	7272.8
57.5°	104.1	122.7	107.1	96.3	201.9	730.1	3021.3	5669.8	6179.2	6275.5
60°	96.3	119.6	80.7	76.1	132.0	526.6	2637.6	4391.4	4911.7	5093.4
62.5°	88.6	113.4	63.7	62.1	91.7	374.3	2168.5	3675.3	4232.9	4479.9
65°	77.7	80.7	51.3	48.2	65.3	201.9	1320.4	2530.4	3164.2	3255.8
67.5°	63.7	62.1	42.0	38.9	43.5	97.9	582.5	1267.6	1834.6	1988.3
70°	51.3	51.3	35.7	31.0	31.0	45.1	152.2	504.9	829.5	918.0
72.5°	37.3	38.9	27.9	24.9	23.3	21.8	24.9	101.0	217.5	278.0
75°	32.6	34.1	27.9	21.8	17.1	14.0	10.8	9.3	12.4	20.2
77.5°	35.7	35.7	29.5	20.2	15.6	10.8	6.2	3.1	3.1	1.5
80°	45.1	46.6	38.9	26.4	18.7	12.4	7.7	3.1	1.5	1.5
82.5°	48.2	52.8	43.5	32.6	23.3	14.0	7.7	1.5	0.0	0.0
85°	12.4	20.2	34.1	29.5	23.3	14.0	7.7	1.5	0.0	0.0
87.5°	0.0	1.5	4.6	4.6	6.2	6.2	4.6	1.5	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

(END OF REPORT)