

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: P458758

Luminaire Tested: **GALN-SA3A-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458758
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-SA3A-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 10962 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

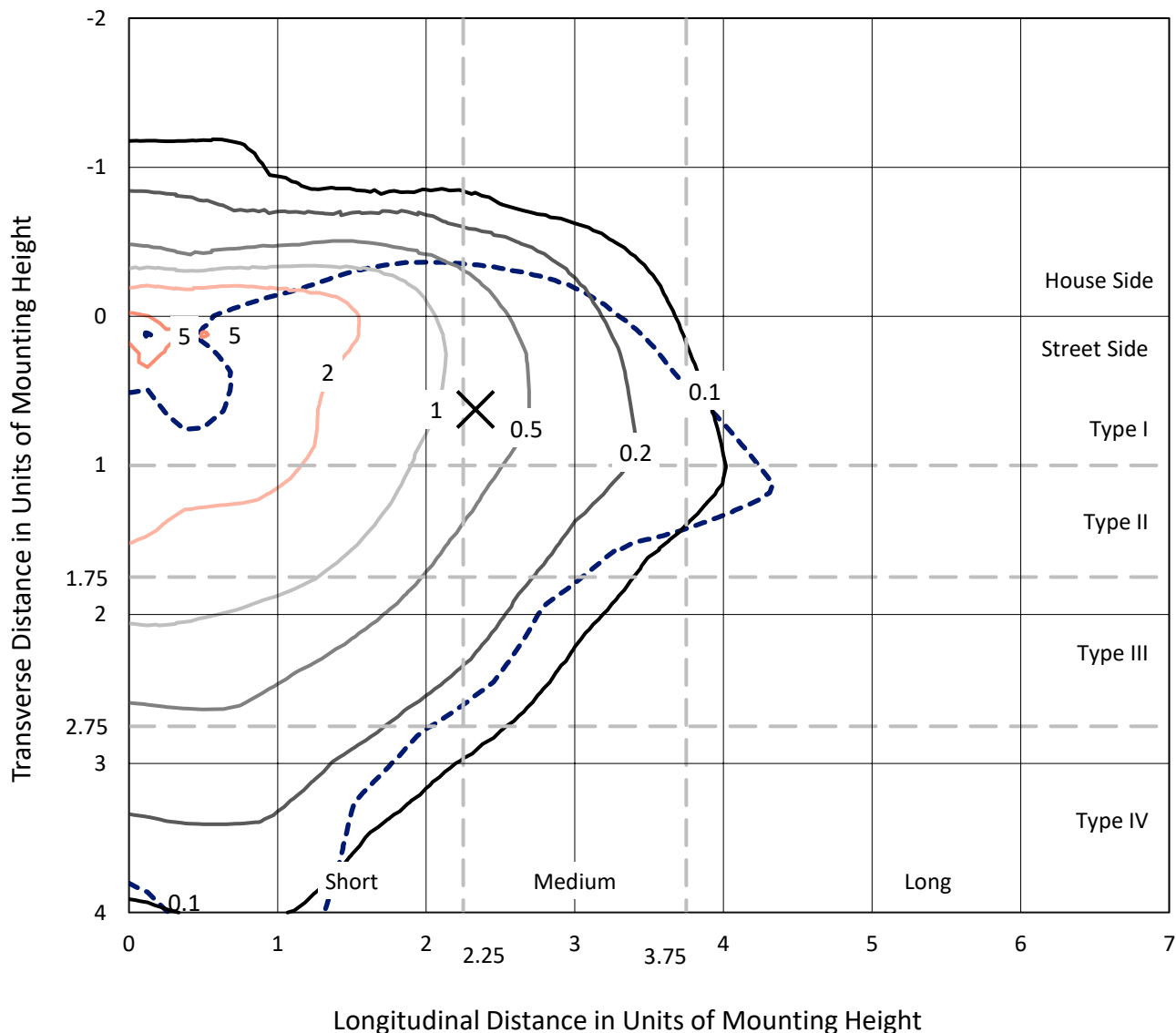
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

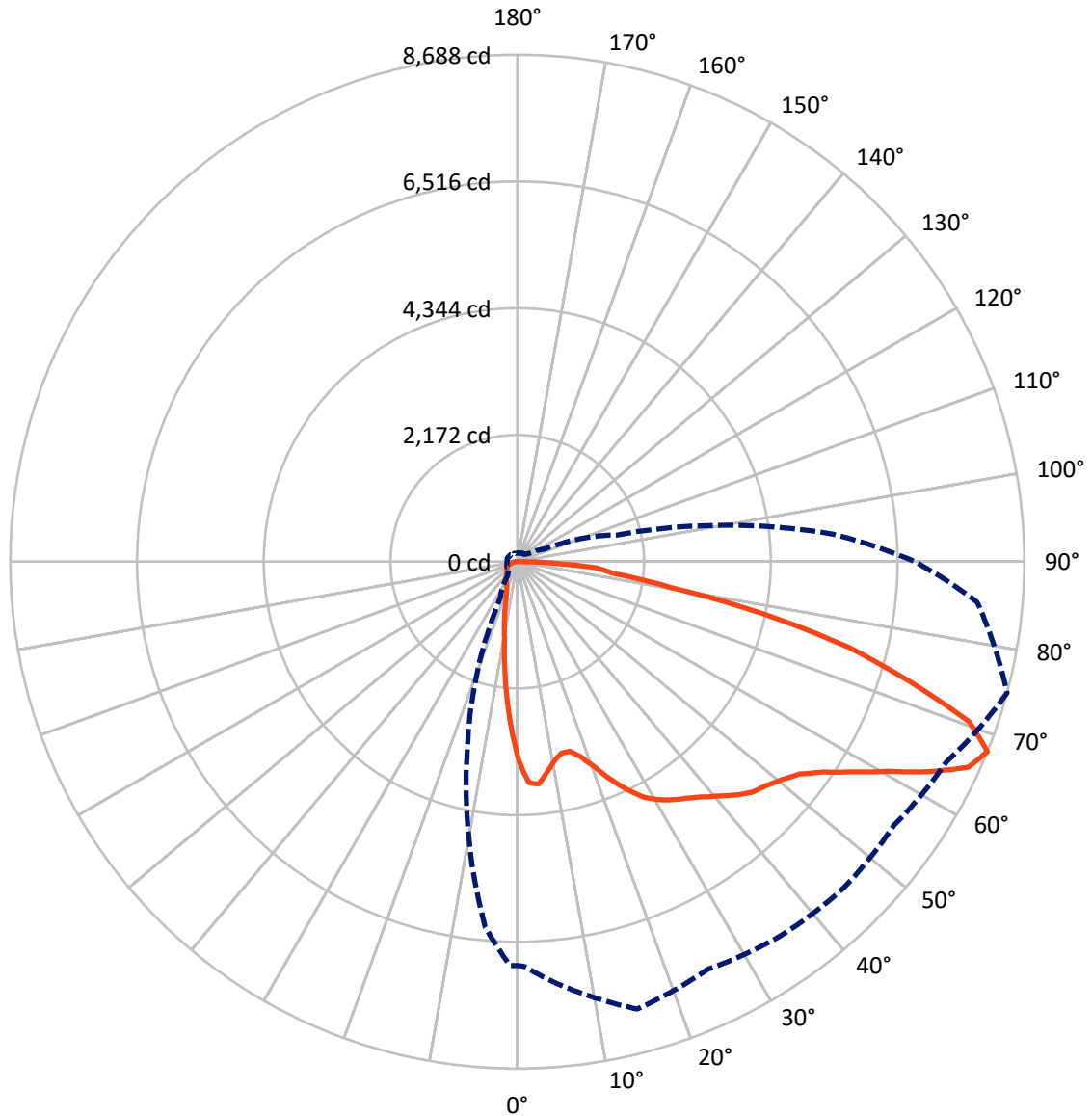
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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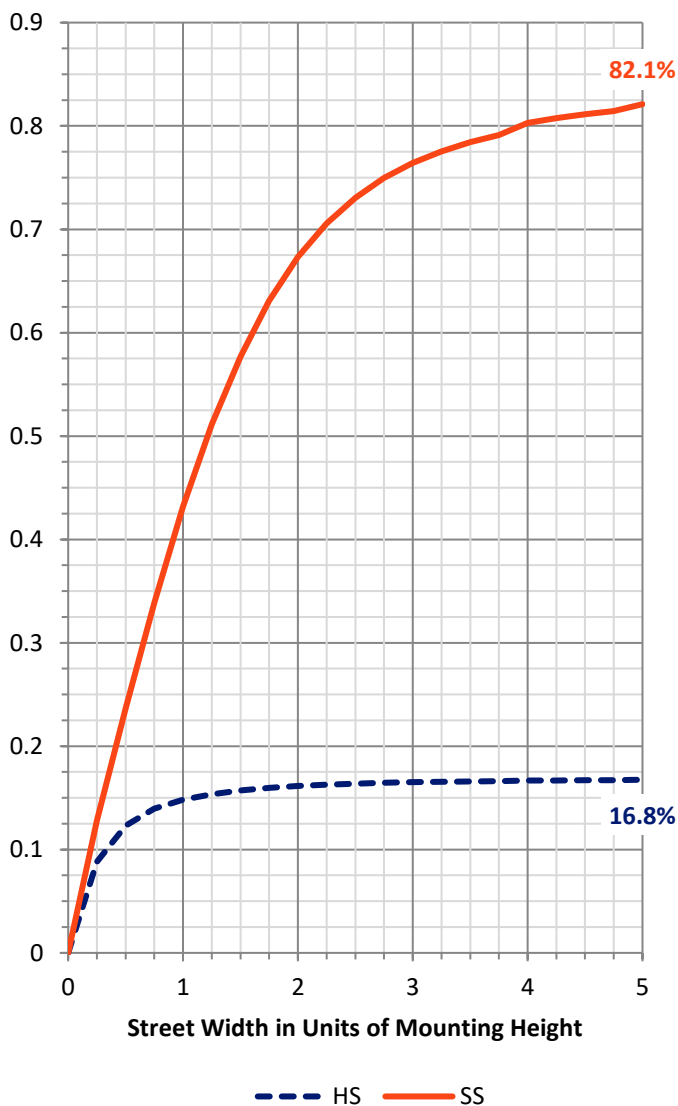
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1852.8	0.0	1852.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	9109.2	0.0	9109.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	10962.0	0.0	10962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	2.4
10°-20°	541.7	4.9
20°-30°	779.6	7.1
30°-40°	1122.8	10.2
40°-50°	1577.2	14.4
50°-60°	2199.7	20.1
60°-70°	2615.3	23.9
70°-80°	1540.3	14.1
80°-90°	325.7	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°	10962.0	100.0
0°-180°	10962.0	100.0

Coefficient of Utilization



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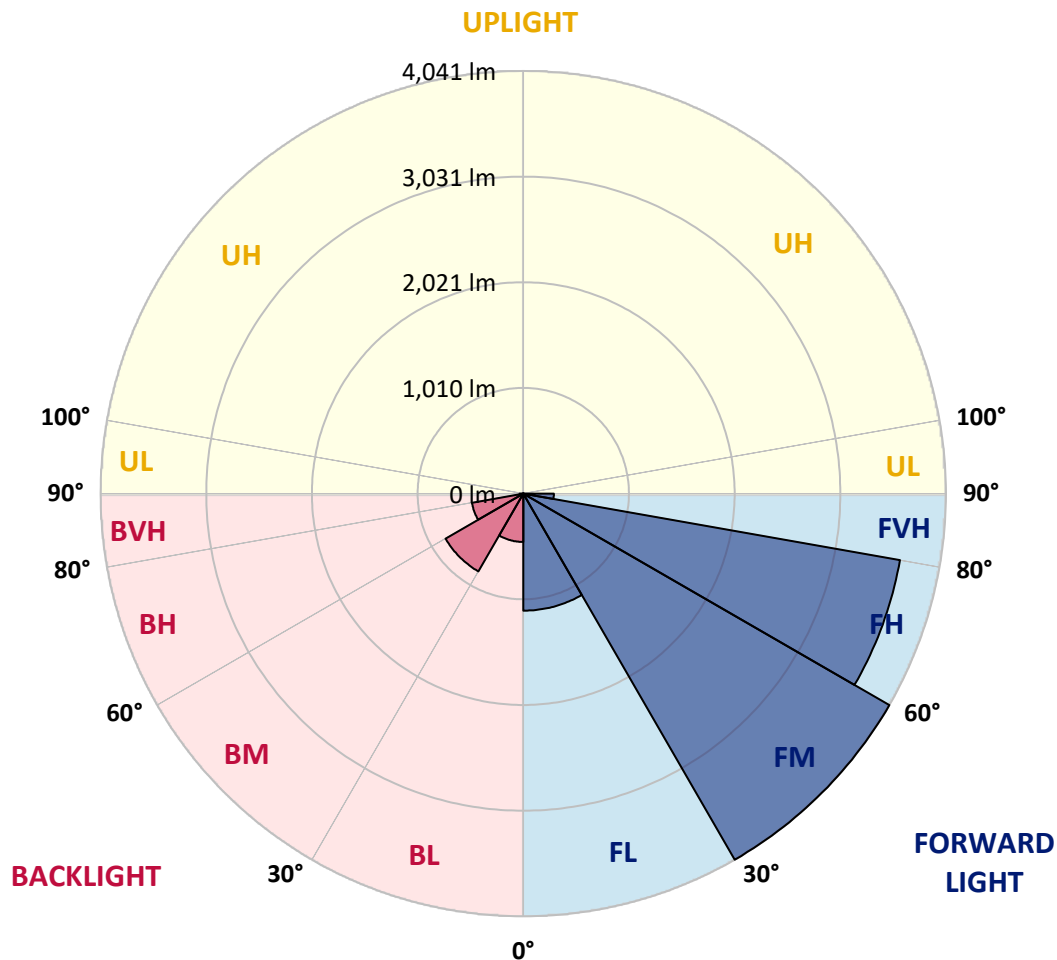
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.9	10.2			
FM (30°-60°)	4041.3	36.9			
FH (60°-80°)	3657.0	33.4			G2/5000
FVH (80°-90°)	292.0	2.7			G3/500
BL (0°-30°)	462.2	4.2	B1/500		
BM (30°-60°)	858.4	7.8	B1/1000		
BH (60°-80°)	498.6	4.5	B1/500		G1/500
BVH (80°-90°)	33.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8
2.5°	3692.6	3697.5	3729.2	3821.3	3884.5	3907.7	3923.9	3893.7	3864.1	3792.4	3684.2
5°	3681.4	3710.2	3792.4	3999.1	4162.2	4232.5	4253.6	4162.9	4013.2	3829.0	3607.6
7.5°	3466.3	3504.9	3631.5	3978.0	4265.5	4430.0	4408.2	4244.4	3974.5	3646.2	3336.9
10°	3211.1	3254.0	3406.5	3825.5	4195.9	4422.3	4422.3	4222.6	3864.1	3474.0	3117.6
12.5°	3008.6	3053.6	3228.0	3668.7	4051.1	4265.5	4301.4	4129.9	3784.7	3365.0	2973.5
15°	2941.9	2985.4	3173.1	3573.8	3897.9	4028.6	4040.6	3984.3	3746.0	3372.8	2967.2
17.5°	3024.8	3081.0	3270.8	3601.9	3757.3	3765.0	3774.2	3818.4	3750.3	3514.1	3095.1
20°	3264.5	3325.0	3523.2	3692.6	3634.3	3554.1	3559.1	3672.9	3800.2	3747.4	3400.9
22.5°	3610.4	3663.1	3866.2	3852.2	3582.2	3417.1	3382.6	3541.5	3874.0	4038.5	3726.4
25°	3983.6	4045.5	4278.9	4089.1	3597.0	3335.5	3313.7	3464.2	3950.6	4310.5	4102.4
27.5°	4411.0	4471.5	4655.7	4328.1	3674.3	3329.2	3303.2	3457.1	4019.5	4562.2	4461.6
30°	4728.8	4784.3	4909.4	4529.1	3769.2	3371.4	3339.0	3512.7	4078.5	4734.4	4811.7
32.5°	4978.3	5036.0	5104.1	4654.3	3894.4	3448.0	3388.2	3613.9	4155.9	4865.8	5071.1
35°	5238.4	5306.6	5301.7	4765.3	4011.1	3536.6	3478.2	3760.1	4277.5	4980.4	5400.1
37.5°	5568.1	5595.5	5560.4	4865.1	4150.9	3696.1	3663.8	3977.3	4450.4	5118.9	5784.6
40°	5902.7	5957.5	5776.9	4986.0	4321.1	3996.3	3992.8	4298.6	4655.7	5281.3	6157.2
42.5°	6189.5	6235.9	5979.3	5091.5	4527.0	4362.5	4389.2	4729.5	4924.9	5469.7	6456.6
45°	6405.3	6446.8	6166.3	5193.4	4798.4	4785.7	4943.2	5191.3	5264.4	5639.1	6632.4
47.5°	6588.8	6628.8	6296.4	5348.1	5133.7	5291.1	5565.3	5672.8	5554.7	5736.1	6829.2
50°	6743.4	6755.4	6385.6	5532.2	5549.8	5910.4	6176.1	6245.7	5841.5	5875.3	7000.0
52.5°	6904.4	6888.9	6539.6	5764.2	5999.7	6498.1	6691.4	6763.8	6116.4	6046.8	7248.9
55°	7265.0	7279.8	6884.7	6056.6	6454.5	7075.2	7329.7	7260.1	6420.8	6362.4	7565.2
57.5°	7700.9	7688.2	7370.5	6514.3	6917.8	7612.3	7802.1	7690.3	6827.1	6796.2	7885.7
60°	7870.3	7887.1	7776.8	7006.3	7374.7	8082.6	8276.6	8102.9	7314.2	7300.2	8127.5
62.5°	7700.1	7795.0	7869.6	7444.3	7764.1	8428.4	8621.0	8422.8	7822.5	7924.4	8297.0
65°	7361.3	7381.7	7635.5	7815.4	7951.8	8485.3	8585.9	8480.4	8247.0	8493.1	8289.2
67.5°	6921.3	6938.9	7236.2	7937.0	7710.0	7838.6	7908.9	7878.0	8115.6	8687.8	7907.5
70°	6502.3	6488.3	6802.5	7627.0	6711.8	6516.4	6574.7	6477.7	7002.8	8211.9	7158.9
72.5°	5686.9	5737.5	6074.9	6765.2	5314.3	4996.6	5123.8	4872.9	5386.0	7033.0	5810.6
75°	4454.6	4466.6	5029.6	5677.8	4008.9	3507.7	3680.0	3575.2	4125.6	5866.8	4012.5
77.5°	3084.6	3057.8	3663.1	4336.5	2858.9	2567.9	2570.7	2520.8	2880.7	4319.6	2726.1
80°	1959.1	1918.4	2293.0	2679.0	1964.8	2101.8	2032.9	2030.8	1875.5	2664.9	1648.4
82.5°	1058.6	1103.6	1448.8	1679.4	1409.4	1624.5	1488.9	1445.3	1287.1	1668.1	1054.4
85°	482.2	524.4	772.5	1142.3	1070.6	1082.5	723.3	853.4	1065.0	1354.6	563.1
87.5°	47.1	60.5	159.6	539.2	365.5	288.2	107.6	207.4	267.8	481.5	45.0
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°	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8
2.5°	3639.9	3603.3	3478.9	3376.3	3267.3	3184.4	3076.1	3003.7	2953.8	2878.6	2869.5
5°	3472.6	3383.3	3166.8	2946.1	2755.6	2612.2	2466.7	2333.1	2254.4	2229.8	2198.1
7.5°	3190.7	3040.3	2761.9	2508.8	2290.2	2076.5	1912.0	1795.3	1717.3	1671.6	1616.8
10°	2958.7	2784.4	2445.6	2135.6	1955.6	1822.8	1677.9	1552.8	1456.5	1374.3	1329.3
12.5°	2802.7	2605.8	2224.8	1973.2	1834.0	1692.7	1523.3	1382.7	1240.7	1147.2	1107.2
15°	2755.6	2547.5	2156.7	1892.4	1692.7	1507.8	1318.0	1134.6	994.0	905.4	875.9
17.5°	2870.9	2619.2	2156.0	1784.8	1526.8	1306.1	1062.9	890.6	746.5	680.5	659.4
20°	3086.0	2757.0	2162.3	1678.7	1346.9	1036.2	773.2	632.0	563.1	534.9	524.4
22.5°	3386.1	2967.2	2181.3	1573.9	1150.0	795.7	579.2	507.5	482.9	478.0	475.9
25°	3755.9	3227.3	2245.2	1479.7	984.1	607.4	484.3	452.0	437.9	433.0	432.3
27.5°	4096.1	3563.3	2322.6	1398.9	823.9	523.7	437.9	410.5	396.5	395.8	397.2
30°	4403.3	3844.5	2387.2	1308.2	702.3	465.4	407.7	380.3	366.9	366.2	370.5
32.5°	4669.0	4075.7	2435.0	1218.9	634.8	429.5	380.3	350.8	339.5	337.4	339.5
35°	4953.0	4306.3	2413.2	1149.3	596.1	400.0	359.9	331.1	317.7	311.4	311.4
37.5°	5277.1	4543.9	2376.0	1091.7	578.5	375.4	342.3	314.2	300.9	294.5	293.8
40°	5630.7	4781.5	2324.7	1040.4	561.0	360.6	330.4	300.9	284.7	278.4	277.0
42.5°	5942.8	4984.6	2282.5	1006.6	532.1	363.4	319.8	291.0	270.6	262.2	261.5
45°	6214.1	5189.2	2274.8	986.9	508.2	359.2	317.0	283.3	259.4	250.3	248.8
47.5°	6426.4	5402.2	2319.0	975.7	482.2	336.7	335.3	278.4	249.5	239.7	238.3
50°	6685.1	5704.5	2420.3	952.5	458.3	315.6	354.3	277.7	241.8	229.2	225.6
52.5°	7029.5	6098.1	2557.3	911.0	423.9	295.9	338.1	277.7	232.7	220.0	215.8
55°	7550.4	6600.0	2691.6	852.7	375.4	269.9	305.1	269.2	219.3	208.1	205.3
57.5°	7895.6	6967.0	2777.4	771.8	314.9	251.0	262.9	255.9	206.0	194.0	194.0
60°	7913.1	7065.4	2736.6	669.9	277.0	233.4	228.5	258.0	194.0	181.4	180.0
62.5°	7710.7	6824.3	2524.3	578.5	256.6	214.4	206.7	226.4	182.1	169.4	167.3
65°	7394.4	6209.2	2156.0	534.9	245.3	197.5	186.3	185.6	169.4	157.5	154.6
67.5°	6813.0	5426.1	1771.4	509.6	239.7	178.6	168.0	164.5	154.6	144.8	143.4
70°	5956.1	4544.6	1420.7	499.1	236.9	158.9	150.4	146.2	137.8	130.0	129.3
72.5°	4633.9	3686.3	1172.5	492.1	235.5	140.6	131.5	125.8	120.9	113.9	113.9
75°	3328.5	2712.0	894.9	443.6	217.9	120.9	111.1	107.6	100.5	94.9	96.3
77.5°	2098.3	1826.3	589.1	326.2	168.7	97.0	88.6	86.5	80.8	73.1	78.0
80°	1417.2	1284.3	343.7	205.3	106.1	71.0	68.2	67.5	61.2	52.7	53.4
82.5°	964.5	946.2	178.6	116.7	61.2	41.5	40.1	41.5	34.4	28.1	28.1
85°	376.8	514.6	84.4	45.7	19.7	6.3	9.1	9.8	5.6	2.8	3.5
87.5°	7.0	52.7	2.1	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°	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8
2.5°	2855.4	2849.1	2859.6	2814.6	2823.8	2840.6	2849.1	2854.0	2923.6	2907.4	2951.7
5°	2227.7	2221.3	2262.1	2267.7	2288.8	2284.6	2305.0	2309.9	2335.2	2344.3	2406.2
7.5°	1620.3	1647.7	1694.1	1718.0	1753.9	1765.1	1754.6	1780.6	1727.9	1765.8	1777.1
10°	1301.9	1268.8	1249.1	1304.0	1311.0	1363.0	1341.9	1325.1	1356.0	1357.4	1386.9
12.5°	1084.0	1013.0	965.9	981.3	998.2	1020.7	1024.2	1057.9	1080.4	1101.5	1119.1
15°	849.9	825.3	782.4	761.3	785.2	794.3	816.1	844.2	868.1	874.5	898.4
17.5°	652.3	656.6	649.5	636.9	651.6	658.7	660.1	660.8	667.1	662.9	698.0
20°	525.1	539.9	557.4	560.3	565.2	568.7	562.4	538.5	539.2	553.9	565.2
22.5°	475.2	478.0	497.7	504.0	519.5	513.2	494.9	483.6	482.2	485.7	491.4
25°	435.8	440.0	454.1	463.9	475.9	464.7	451.3	440.8	439.3	442.9	448.5
27.5°	400.7	407.0	419.7	429.5	440.8	430.2	417.6	408.4	407.7	407.0	410.5
30°	372.6	379.6	388.7	400.0	407.7	398.6	386.6	381.7	381.0	379.6	381.0
32.5°	344.4	355.7	364.8	370.5	378.2	371.2	362.0	359.2	354.3	350.1	348.0
35°	312.8	324.8	338.8	345.9	353.6	346.6	340.2	328.3	319.8	319.1	320.5
37.5°	294.5	299.5	310.7	322.7	330.4	326.9	314.9	303.0	300.9	300.9	302.3
40°	278.4	280.5	285.4	300.9	314.9	304.4	289.6	286.1	286.1	285.4	286.1
42.5°	262.2	264.3	264.3	276.3	298.8	281.9	270.6	270.6	270.6	271.3	273.4
45°	247.4	248.1	247.4	255.9	277.0	262.9	255.2	257.3	258.7	260.1	261.5
47.5°	234.8	235.5	234.8	241.8	252.4	246.7	242.5	245.3	248.1	250.3	251.7
50°	223.5	222.8	224.2	228.5	233.4	234.8	232.0	236.2	237.6	240.4	243.9
52.5°	213.7	213.0	214.4	216.5	223.5	223.5	223.5	227.1	229.9	232.7	237.6
55°	202.5	203.2	205.3	208.1	217.2	215.8	216.5	219.3	222.1	226.4	229.2
57.5°	191.9	193.3	196.1	200.3	209.5	208.8	209.5	210.9	214.4	216.5	219.3
60°	180.0	182.8	186.3	189.1	198.2	197.5	201.0	203.9	206.0	206.0	207.4
62.5°	168.0	172.2	175.7	177.8	187.7	188.4	193.3	195.4	196.8	195.4	197.5
65°	156.1	162.4	163.8	166.6	176.4	177.1	182.8	187.7	186.3	184.9	188.4
67.5°	144.1	151.8	151.1	154.6	164.5	165.9	170.8	179.3	176.4	175.0	177.8
70°	130.7	136.4	137.1	139.2	152.5	150.4	158.2	165.9	163.8	164.5	164.5
72.5°	116.0	120.9	120.9	125.1	139.2	135.7	142.0	150.4	150.4	149.7	149.7
75°	98.4	101.2	104.0	110.4	125.1	120.9	125.1	132.9	134.3	132.9	132.9
77.5°	79.4	83.7	85.1	93.5	104.0	103.3	107.6	111.1	113.9	112.5	112.5
80°	56.2	60.5	66.1	75.2	81.5	83.7	85.8	88.6	90.0	90.0	91.4
82.5°	31.6	38.0	42.9	52.0	54.8	65.4	64.7	66.8	64.7	56.9	63.3
85°	7.0	13.4	19.0	23.9	27.4	38.0	40.1	45.0	37.3	34.4	34.4
87.5°	0.0	0.0	0.0	0.0	0.0	5.6	11.2	15.5	13.4	11.2	11.2
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-SA3A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8	3424.8
2.5°	2989.0	3050.1	3123.9	3251.2	3340.4	3436.7	3533.7	3637.1	3664.5	3692.6
5°	2423.1	2543.3	2608.7	2779.5	2958.7	3186.5	3372.8	3576.6	3661.7	3681.4
7.5°	1835.4	1917.0	2088.5	2261.4	2483.5	2722.5	3007.9	3325.7	3424.8	3466.3
10°	1455.1	1566.2	1716.6	1902.2	2096.9	2354.2	2676.1	3047.3	3187.9	3211.1
12.5°	1238.6	1362.3	1526.1	1722.2	1906.4	2100.4	2425.2	2808.3	2958.7	3008.6
15°	990.5	1140.2	1329.3	1536.0	1736.3	1948.6	2277.6	2709.9	2883.5	2941.9
17.5°	778.2	899.1	1103.6	1327.9	1565.5	1834.0	2246.6	2757.0	2970.7	3024.8
20°	595.4	681.9	854.1	1091.0	1369.4	1720.8	2254.4	2934.8	3190.7	3264.5
22.5°	514.6	558.8	663.6	889.2	1200.6	1622.4	2286.0	3178.8	3487.4	3610.4
25°	466.1	489.3	548.3	695.9	1039.7	1526.8	2358.4	3507.0	3902.1	3983.6
27.5°	424.6	441.5	478.0	584.2	893.5	1438.2	2442.8	3871.2	4289.4	4411.0
30°	385.2	407.7	442.2	518.8	800.0	1357.4	2548.9	4166.4	4615.6	4728.8
32.5°	355.0	377.5	409.1	473.1	720.5	1272.3	2612.2	4425.8	4882.0	4978.3
35°	330.4	349.4	382.4	436.5	660.1	1207.7	2599.5	4631.8	5140.0	5238.4
37.5°	312.8	329.0	362.0	402.1	614.4	1140.2	2593.2	4903.8	5454.2	5568.1
40°	296.6	313.5	343.7	379.6	568.7	1060.8	2596.7	5173.7	5788.8	5902.7
42.5°	284.0	303.0	327.6	373.3	521.6	996.8	2596.7	5408.5	6079.8	6189.5
45°	273.4	293.8	317.7	372.6	484.3	948.3	2579.1	5610.3	6311.8	6405.3
47.5°	264.3	286.8	321.2	359.9	475.2	913.1	2563.7	5771.9	6500.9	6588.8
50°	258.0	284.7	341.6	345.2	478.0	902.6	2638.2	5975.8	6667.5	6743.4
52.5°	253.1	285.4	340.9	323.4	473.1	909.6	2793.5	6294.2	6898.8	6904.4
55°	243.2	284.7	323.4	298.8	452.7	921.6	2993.2	6756.8	7260.8	7265.0
57.5°	233.4	277.0	300.2	277.7	411.2	921.6	3233.6	7194.7	7697.3	7700.9
60°	223.5	288.2	263.6	259.4	357.1	904.7	3487.4	7387.3	7834.4	7870.3
62.5°	213.7	290.3	235.5	243.2	317.7	863.9	3676.4	7174.3	7648.8	7700.1
65°	202.5	234.1	217.2	226.4	297.3	795.7	3616.7	6784.2	7300.2	7361.3
67.5°	189.1	198.2	197.5	208.8	290.3	695.2	3301.8	6290.7	6924.8	6921.3
70°	172.9	177.8	180.0	191.9	277.0	617.2	2751.4	5650.3	6423.6	6502.3
72.5°	156.1	160.3	162.4	172.9	263.6	572.9	2135.6	4768.1	5563.9	5686.9
75°	137.8	140.6	143.4	152.5	249.5	507.5	1521.2	3639.9	4261.3	4454.6
77.5°	118.8	118.8	122.3	131.5	210.2	419.0	1020.7	2553.1	2887.0	3084.6
80°	96.3	97.0	95.6	105.4	154.6	286.8	579.9	1705.4	1921.2	1959.1
82.5°	73.8	71.7	72.4	77.3	115.3	195.4	309.3	1059.4	1079.7	1058.6
85°	46.4	46.4	45.0	50.6	73.8	101.9	168.7	648.8	506.8	482.2
87.5°	19.0	15.5	17.6	20.4	35.1	41.5	66.1	133.6	51.3	47.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)