

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: P646787

Luminaire Tested: **GALN-SA2C-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646787
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-SA2C-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA 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: 9542.4 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

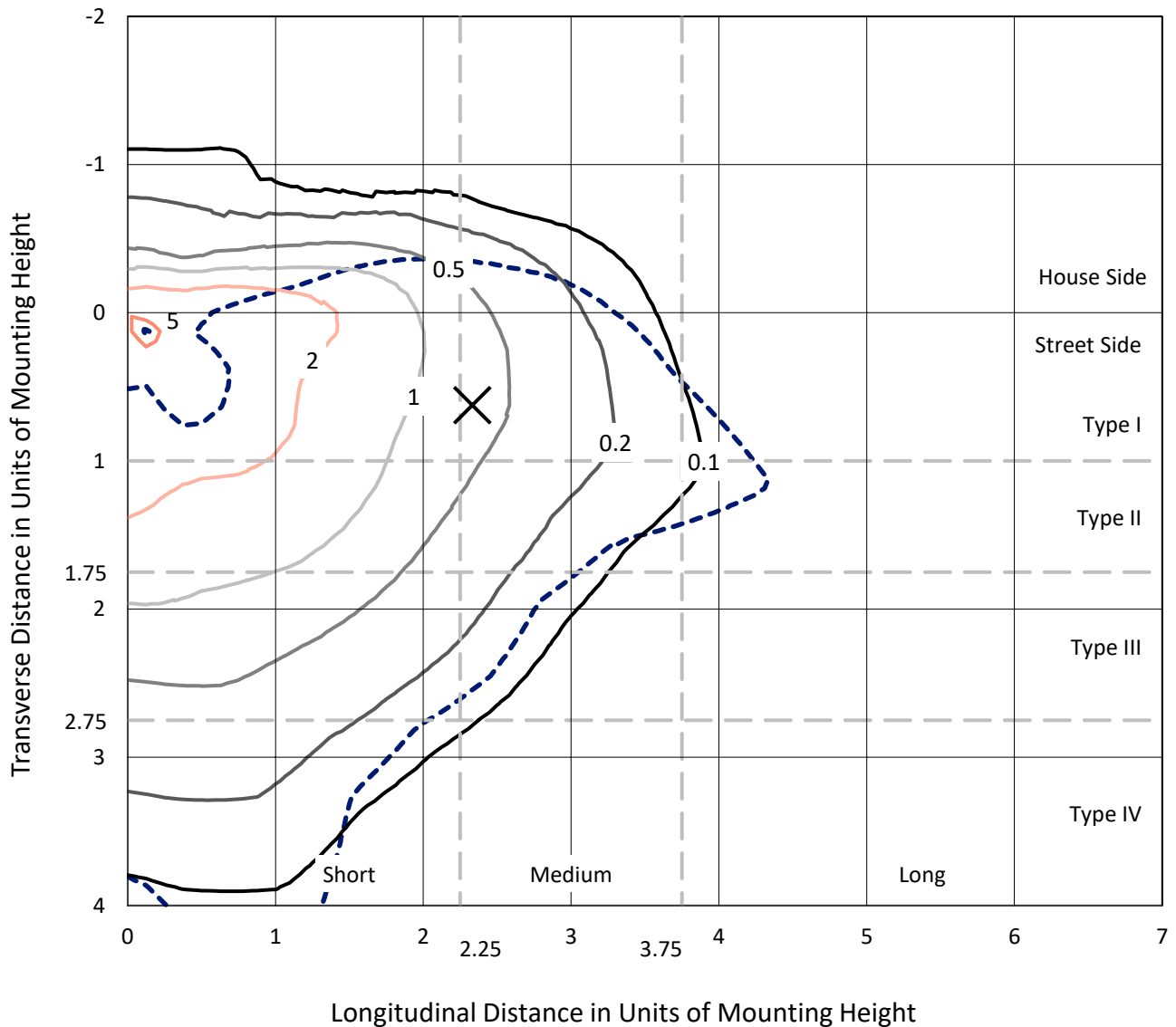
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

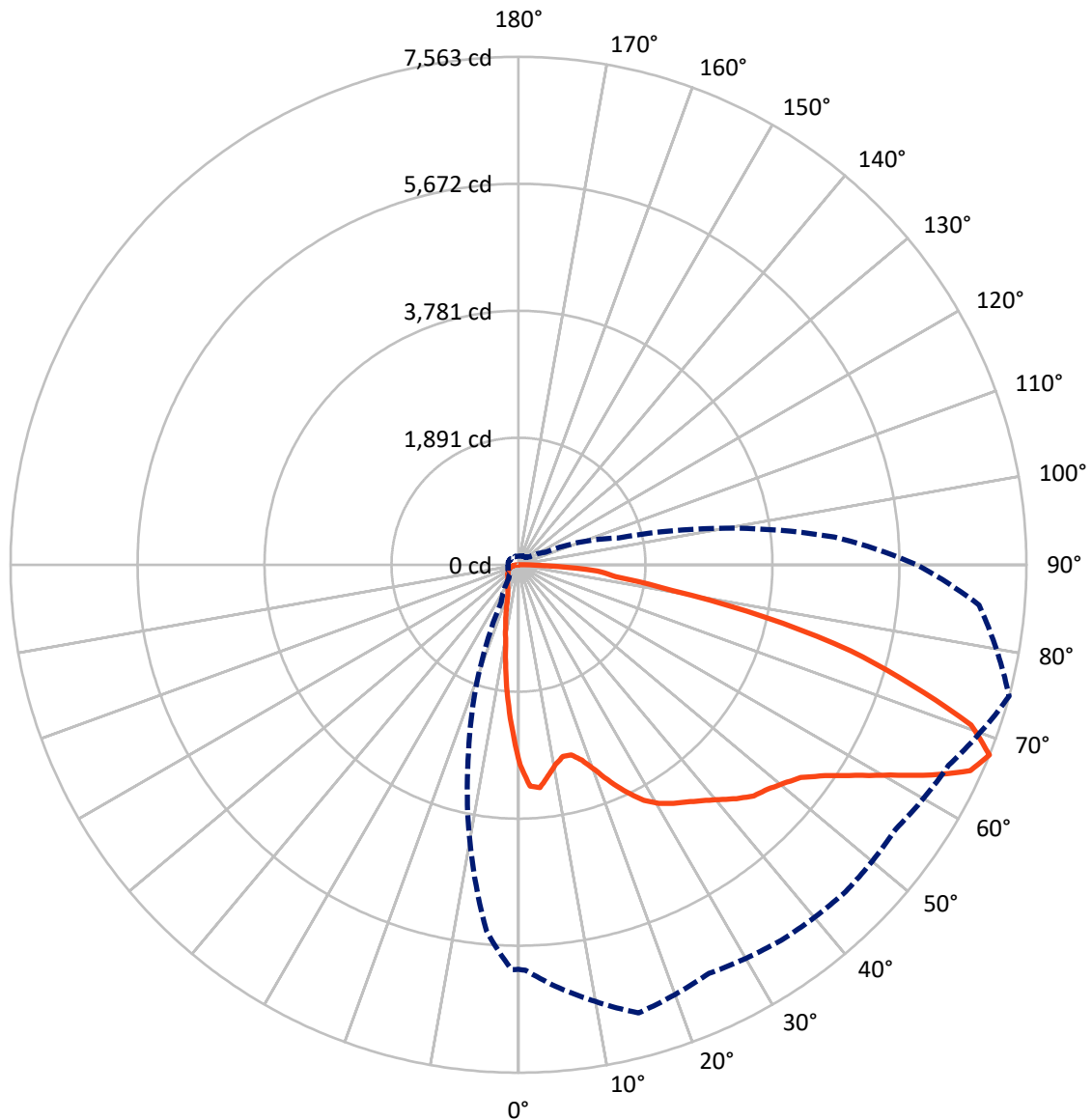
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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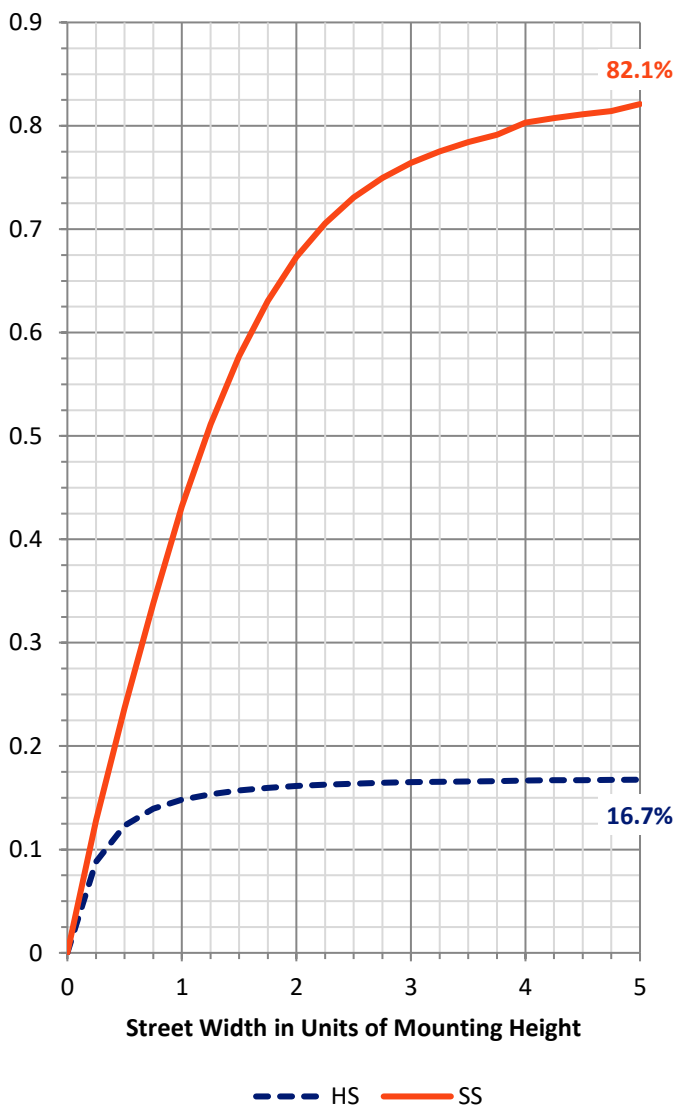
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1612.9	0.0	1612.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	7929.6	0.0	7929.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	9542.4	0.0	9542.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	2.4
10°-20°	471.6	4.9
20°-30°	678.6	7.1
30°-40°	977.4	10.2
40°-50°	1373.0	14.4
50°-60°	1914.8	20.1
60°-70°	2276.6	23.9
70°-80°	1340.8	14.1
80°-90°	283.5	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°	9542.4	100.0
0°-180°	9542.4	100.0

Coefficient of Utilization

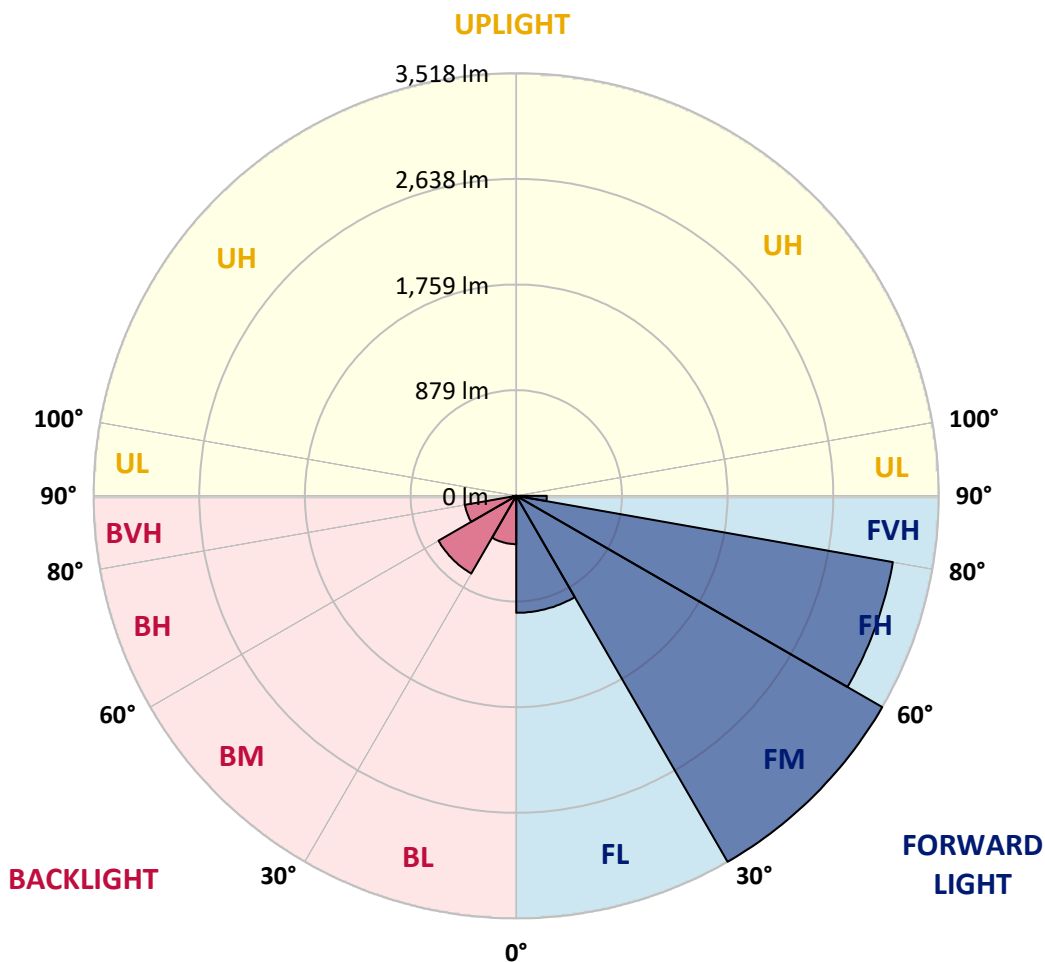


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	974.0	10.2			
FM (30°-60°)	3517.9	36.9			
FH (60°-80°)	3183.4	33.4			G2/5000
FVH (80°-90°)	254.2	2.7			G3/500
BL (0°-30°)	402.3	4.2	B1/500		
BM (30°-60°)	747.2	7.8	B1/1000		
BH (60°-80°)	434.0	4.5	B1/500		G1/500
BVH (80°-90°)	29.3	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°	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3
2.5°	3214.4	3218.7	3246.2	3326.4	3381.5	3401.7	3415.8	3389.5	3363.7	3301.3	3207.1
5°	3204.7	3229.7	3301.3	3481.2	3623.2	3684.4	3702.7	3623.8	3493.4	3333.2	3140.4
7.5°	3017.4	3051.0	3161.2	3462.9	3713.1	3856.4	3837.3	3694.7	3459.8	3174.0	2904.8
10°	2795.2	2832.6	2965.4	3330.1	3652.5	3849.6	3849.6	3675.8	3363.7	3024.1	2713.9
12.5°	2619.1	2658.2	2810.0	3193.6	3526.5	3713.1	3744.3	3595.1	3294.6	2929.3	2588.4
15°	2560.9	2598.9	2762.2	3111.0	3393.1	3506.9	3517.3	3468.4	3261.0	2936.0	2582.9
17.5°	2633.1	2682.0	2847.3	3135.4	3270.7	3277.5	3285.4	3324.0	3264.6	3059.0	2694.3
20°	2841.7	2894.4	3066.9	3214.4	3163.6	3093.9	3098.2	3197.3	3308.0	3262.1	2960.4
22.5°	3142.8	3188.7	3365.6	3353.4	3118.4	2974.5	2944.5	3082.8	3372.3	3515.5	3243.8
25°	3467.8	3521.6	3724.7	3559.5	3131.2	2903.6	2884.6	3015.6	3439.0	3752.3	3571.2
27.5°	3839.8	3892.4	4052.7	3767.6	3198.5	2898.0	2875.4	3009.5	3499.0	3971.4	3883.8
30°	4116.4	4164.7	4273.7	3942.6	3281.1	2934.8	2906.7	3057.8	3550.4	4121.3	4188.6
32.5°	4333.6	4383.8	4443.1	4051.6	3390.1	3001.5	2949.5	3145.9	3617.7	4235.7	4414.4
35°	4560.0	4619.4	4615.1	4148.2	3491.6	3078.6	3027.8	3273.2	3723.6	4335.5	4700.7
37.5°	4847.0	4870.9	4840.3	4235.1	3613.4	3217.5	3189.3	3462.3	3874.0	4456.0	5035.5
40°	5138.3	5186.0	5028.7	4340.3	3761.5	3478.8	3475.7	3741.9	4052.7	4597.4	5359.8
42.5°	5388.0	5428.4	5205.0	4432.2	3940.8	3797.6	3820.8	4117.0	4287.1	4761.3	5620.5
45°	5575.8	5611.9	5367.8	4520.9	4177.0	4166.0	4303.1	4519.0	4582.7	4908.9	5773.5
47.5°	5735.6	5770.4	5481.0	4655.5	4468.9	4605.9	4844.6	4938.2	4835.4	4993.3	5944.8
50°	5870.2	5880.6	5558.7	4815.8	4831.1	5145.0	5376.3	5436.9	5085.0	5114.4	6093.5
52.5°	6010.3	5996.8	5692.7	5017.8	5222.8	5656.6	5824.9	5887.9	5324.3	5263.7	6310.1
55°	6324.2	6337.1	5993.2	5272.3	5618.7	6159.0	6380.5	6319.9	5589.3	5538.5	6585.5
57.5°	6703.6	6692.6	6416.0	5670.6	6021.9	6626.5	6791.7	6694.4	5943.0	5916.0	6864.6
60°	6851.1	6865.7	6769.7	6099.0	6419.7	7035.9	7204.8	7053.6	6367.0	6354.8	7075.0
62.5°	6702.9	6785.6	6850.5	6480.3	6758.7	7336.9	7504.6	7332.0	6809.4	6898.2	7222.5
65°	6408.1	6425.8	6646.7	6803.3	6922.0	7386.5	7474.0	7382.2	7179.1	7393.2	7215.7
67.5°	6025.0	6040.3	6299.1	6909.2	6711.6	6823.5	6884.7	6857.8	7064.6	7562.8	6883.5
70°	5660.2	5648.0	5921.6	6639.4	5842.6	5672.5	5723.3	5638.9	6096.0	7148.5	6231.8
72.5°	4950.4	4994.5	5288.2	5889.1	4626.1	4349.6	4460.3	4241.8	4688.5	6122.3	5058.1
75°	3877.7	3888.1	4378.3	4942.5	3489.8	3053.5	3203.4	3112.2	3591.4	5107.1	3492.8
77.5°	2685.1	2661.9	3188.7	3774.9	2488.7	2235.3	2237.8	2194.4	2507.6	3760.3	2373.0
80°	1705.5	1669.9	1996.1	2332.0	1710.3	1829.6	1769.7	1767.9	1632.6	2319.8	1434.9
82.5°	921.6	960.7	1261.2	1461.9	1226.9	1414.2	1296.0	1258.1	1120.4	1452.1	917.9
85°	419.8	456.5	672.5	994.4	931.9	942.3	629.7	742.9	927.1	1179.2	490.2
87.5°	41.0	52.6	138.9	469.3	318.2	250.9	93.6	180.5	233.2	419.1	39.2
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3
2.5°	3168.5	3136.7	3028.4	2939.1	2844.2	2772.0	2677.8	2614.8	2571.3	2505.8	2497.8
5°	3022.8	2945.2	2756.7	2564.6	2398.7	2273.9	2147.2	2030.9	1962.4	1941.0	1913.5
7.5°	2777.5	2646.5	2404.2	2183.9	1993.7	1807.6	1664.4	1562.9	1494.9	1455.1	1407.4
10°	2575.6	2423.9	2128.9	1859.0	1702.4	1586.7	1460.7	1351.8	1267.9	1196.3	1157.1
12.5°	2439.7	2268.4	1936.8	1717.7	1596.5	1473.5	1326.0	1203.6	1080.1	998.6	963.8
15°	2398.7	2217.6	1877.4	1647.3	1473.5	1312.5	1147.3	987.7	865.3	788.2	762.5
17.5°	2499.1	2280.0	1876.8	1553.6	1329.1	1136.9	925.2	775.3	649.9	592.3	574.0
20°	2686.3	2400.0	1882.3	1461.2	1172.5	901.9	673.1	550.1	490.2	465.7	456.5
22.5°	2947.6	2582.9	1898.8	1370.1	1001.1	692.7	504.3	441.8	420.4	416.1	414.3
25°	3269.5	2809.3	1954.4	1288.1	856.7	528.7	421.6	393.5	381.2	376.9	376.3
27.5°	3565.6	3101.9	2021.8	1217.7	717.1	455.9	381.2	357.4	345.1	344.5	345.8
30°	3833.1	3346.6	2078.1	1138.8	611.3	405.1	354.9	331.1	319.4	318.8	322.5
32.5°	4064.4	3547.9	2119.7	1061.0	552.6	373.9	331.1	305.4	295.6	293.7	295.6
35°	4311.6	3748.6	2100.7	1000.5	518.9	348.2	313.3	288.2	276.6	271.1	271.1
37.5°	4593.7	3955.5	2068.3	950.3	503.6	326.7	298.0	273.5	261.9	256.4	255.8
40°	4901.5	4162.3	2023.6	905.6	488.3	313.9	287.6	261.9	247.8	242.3	241.1
42.5°	5173.2	4339.2	1986.9	876.3	463.2	316.3	278.4	253.3	235.6	228.2	227.6
45°	5409.4	4517.2	1980.2	859.1	442.4	312.7	276.0	246.6	225.8	217.8	216.7
47.5°	5594.1	4702.6	2018.7	849.3	419.8	293.1	291.9	242.3	217.2	208.7	207.4
50°	5819.3	4965.7	2106.8	829.1	398.9	274.8	308.4	241.7	210.5	199.5	196.5
52.5°	6119.2	5308.4	2226.1	793.0	368.9	257.6	294.3	241.7	202.6	191.5	187.8
55°	6572.7	5745.3	2343.0	742.3	326.7	235.0	265.6	234.4	190.9	181.1	178.7
57.5°	6873.1	6064.7	2417.7	671.9	274.1	218.5	228.9	222.8	179.3	168.9	168.9
60°	6888.4	6150.4	2382.2	583.2	241.1	203.2	198.9	224.6	168.9	157.9	156.7
62.5°	6712.2	5940.5	2197.4	503.6	223.4	186.7	179.9	197.0	158.5	147.4	145.6
65°	6436.8	5405.1	1876.8	465.7	213.5	171.9	162.2	161.5	147.4	137.1	134.6
67.5°	5930.8	4723.4	1542.0	443.6	208.7	155.4	146.3	143.2	134.6	126.1	124.8
70°	5184.8	3956.0	1236.7	434.5	206.2	138.3	130.9	127.3	120.0	113.2	112.6
72.5°	4033.8	3208.9	1020.7	428.4	205.0	122.4	114.4	109.5	105.2	99.1	99.1
75°	2897.4	2360.8	779.0	386.1	189.7	105.2	96.7	93.6	87.5	82.6	83.9
77.5°	1826.6	1589.8	512.8	283.9	146.9	84.4	77.1	75.2	70.4	63.7	67.9
80°	1233.6	1118.0	299.3	178.7	92.4	61.8	59.4	58.7	53.2	45.9	46.5
82.5°	839.5	823.6	155.4	101.6	53.2	36.1	34.8	36.1	30.0	24.5	24.5
85°	328.0	448.0	73.4	39.8	17.1	5.5	8.0	8.5	4.9	2.4	3.1
87.5°	6.1	45.9	1.8	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°	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3
2.5°	2485.6	2480.2	2489.3	2450.2	2458.1	2472.8	2480.2	2484.4	2545.0	2530.9	2569.5
5°	1939.2	1933.7	1969.2	1974.0	1992.4	1988.7	2006.5	2010.7	2032.8	2040.7	2094.6
7.5°	1410.5	1434.4	1474.7	1495.5	1526.8	1536.6	1527.3	1550.0	1504.1	1537.1	1547.0
10°	1133.3	1104.5	1087.4	1135.1	1141.2	1186.5	1168.2	1153.4	1180.4	1181.6	1207.3
12.5°	943.6	881.8	840.8	854.3	868.9	888.5	891.6	921.0	940.5	958.9	974.2
15°	739.8	718.4	681.1	662.7	683.5	691.5	710.4	734.9	755.8	761.2	782.1
17.5°	567.8	571.5	565.4	554.4	567.3	573.4	574.6	575.2	580.8	577.1	607.6
20°	457.1	470.0	485.2	487.7	492.0	495.0	489.5	468.7	469.3	482.2	492.0
22.5°	413.7	416.1	433.2	438.7	452.2	446.7	430.8	421.0	419.8	422.8	427.8
25°	379.4	383.0	395.3	403.9	414.3	404.5	392.8	383.7	382.4	385.5	390.4
27.5°	348.8	354.3	365.3	373.9	383.7	374.5	363.5	355.6	354.9	354.3	357.4
30°	324.3	330.4	338.4	348.2	354.9	346.9	336.5	332.3	331.7	330.4	331.7
32.5°	299.8	309.6	317.6	322.5	329.3	323.1	315.2	312.7	308.4	304.7	302.9
35°	272.3	282.7	295.0	301.1	307.8	301.7	296.1	285.8	278.4	277.8	279.1
37.5°	256.4	260.7	270.4	280.9	287.6	284.5	274.1	263.7	261.9	261.9	263.1
40°	242.3	244.1	248.4	261.9	274.1	265.0	252.1	249.1	249.1	248.4	249.1
42.5°	228.2	230.0	230.0	240.5	260.0	245.4	235.6	235.6	235.6	236.2	238.0
45°	215.4	216.0	215.4	222.8	241.1	228.9	222.1	223.9	225.2	226.4	227.6
47.5°	204.4	205.0	204.4	210.5	219.7	214.8	211.1	213.5	216.0	217.8	219.1
50°	194.6	193.9	195.2	198.9	203.2	204.4	201.9	205.6	206.8	209.3	212.3
52.5°	186.0	185.4	186.7	188.5	194.6	194.6	194.6	197.6	200.1	202.6	206.8
55°	176.3	176.9	178.7	181.1	189.1	187.8	188.5	190.9	193.4	197.0	199.5
57.5°	167.1	168.3	170.7	174.4	182.4	181.7	182.4	183.6	186.7	188.5	190.9
60°	156.7	159.1	162.2	164.6	172.6	171.9	175.0	177.4	179.3	179.3	180.5
62.5°	146.3	149.9	153.0	154.8	163.4	164.0	168.3	170.1	171.3	170.1	171.9
65°	135.9	141.3	142.6	145.0	153.6	154.2	159.1	163.4	162.2	160.9	164.0
67.5°	125.4	132.2	131.5	134.6	143.2	144.4	148.7	156.1	153.6	152.4	154.8
70°	113.8	118.7	119.3	121.1	132.8	130.9	137.7	144.4	142.6	143.2	143.2
72.5°	100.9	105.2	105.2	108.9	121.1	118.1	123.6	130.9	130.9	130.4	130.4
75°	85.7	88.1	90.6	96.1	108.9	105.2	108.9	115.6	116.9	115.6	115.6
77.5°	69.1	72.8	74.1	81.4	90.6	90.0	93.6	96.7	99.1	97.9	97.9
80°	48.9	52.6	57.6	65.5	71.0	72.8	74.6	77.1	78.3	78.3	79.6
82.5°	27.6	33.0	37.3	45.3	47.8	56.9	56.3	58.1	56.3	49.6	55.0
85°	6.1	11.6	16.5	20.8	23.9	33.0	34.8	39.2	32.4	30.0	30.0
87.5°	0.0	0.0	0.0	0.0	0.0	4.9	9.8	13.5	11.6	9.8	9.8
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-SA2C-835-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3
2.5°	2601.9	2655.2	2719.4	2830.2	2907.8	2991.7	3076.1	3166.1	3189.9	3214.4
5°	2109.3	2213.9	2270.9	2419.5	2575.6	2773.9	2936.0	3113.4	3187.5	3204.7
7.5°	1597.7	1668.7	1818.0	1968.5	2161.9	2370.0	2618.4	2895.0	2981.3	3017.4
10°	1266.7	1363.4	1494.3	1655.9	1825.3	2049.3	2329.6	2652.6	2775.0	2795.2
12.5°	1078.2	1185.9	1328.5	1499.2	1659.5	1828.4	2111.1	2444.6	2575.6	2619.1
15°	862.2	992.5	1157.1	1337.1	1511.4	1696.2	1982.6	2358.9	2510.1	2560.9
17.5°	677.4	782.6	960.7	1155.9	1362.7	1596.5	1955.7	2400.0	2586.0	2633.1
20°	518.3	593.6	743.5	949.7	1192.0	1498.0	1962.4	2554.8	2777.5	2841.7
22.5°	448.0	486.5	577.6	774.1	1045.1	1412.3	1990.0	2767.1	3035.8	3142.8
25°	405.7	425.9	477.3	605.8	905.1	1329.1	2053.0	3052.8	3396.8	3467.8
27.5°	369.6	384.3	416.1	508.5	777.8	1252.0	2126.4	3369.9	3734.0	3839.8
30°	335.4	354.9	384.9	451.6	696.4	1181.6	2218.8	3626.9	4017.9	4116.4
32.5°	309.1	328.6	356.1	411.9	627.2	1107.6	2273.9	3852.7	4249.8	4333.6
35°	287.6	304.1	332.9	380.0	574.6	1051.3	2262.9	4032.0	4474.4	4560.0
37.5°	272.3	286.3	315.2	350.0	534.8	992.5	2257.4	4268.8	4747.9	4847.0
40°	258.2	273.0	299.3	330.4	495.0	923.4	2260.4	4503.7	5039.2	5138.3
42.5°	247.2	263.7	285.2	324.9	454.1	867.7	2260.4	4708.1	5292.5	5388.0
45°	238.0	255.8	276.6	324.3	421.6	825.5	2245.2	4883.7	5494.5	5575.8
47.5°	230.0	249.7	279.6	313.3	413.7	794.9	2231.7	5024.5	5659.1	5735.6
50°	224.6	247.8	297.4	300.4	416.1	785.7	2296.5	5201.9	5804.1	5870.2
52.5°	220.3	248.4	296.8	281.5	411.9	791.8	2431.8	5479.1	6005.4	6010.3
55°	211.7	247.8	281.5	260.0	394.1	802.3	2605.6	5881.8	6320.5	6324.2
57.5°	203.2	241.1	261.3	241.7	358.0	802.3	2814.8	6263.0	6700.5	6703.6
60°	194.6	250.9	229.5	225.8	310.9	787.5	3035.8	6430.7	6819.9	6851.1
62.5°	186.0	252.8	205.0	211.7	276.6	752.1	3200.4	6245.3	6658.3	6702.9
65°	176.3	203.7	189.1	197.0	258.9	692.7	3148.4	5905.6	6354.8	6408.1
67.5°	164.6	172.6	171.9	181.7	252.8	605.2	2874.2	5476.1	6028.0	6025.0
70°	150.6	154.8	156.7	167.1	241.1	537.3	2395.0	4918.6	5591.7	5660.2
72.5°	135.9	139.5	141.3	150.6	229.5	498.7	1859.0	4150.7	4843.3	4950.4
75°	120.0	122.4	124.8	132.8	217.2	441.8	1324.2	3168.5	3709.5	3877.7
77.5°	103.4	103.4	106.5	114.4	183.0	364.7	888.5	2222.5	2513.2	2685.1
80°	83.9	84.4	83.2	91.8	134.6	249.7	504.8	1484.5	1672.4	1705.5
82.5°	64.3	62.4	63.0	67.3	100.4	170.1	269.3	922.1	939.9	921.6
85°	40.4	40.4	39.2	44.1	64.3	88.7	146.9	564.8	441.2	419.8
87.5°	16.5	13.5	15.3	17.8	30.6	36.1	57.6	116.3	44.7	41.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)