

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: P528108

Luminaire Tested: **GALN-SA3A-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8079 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

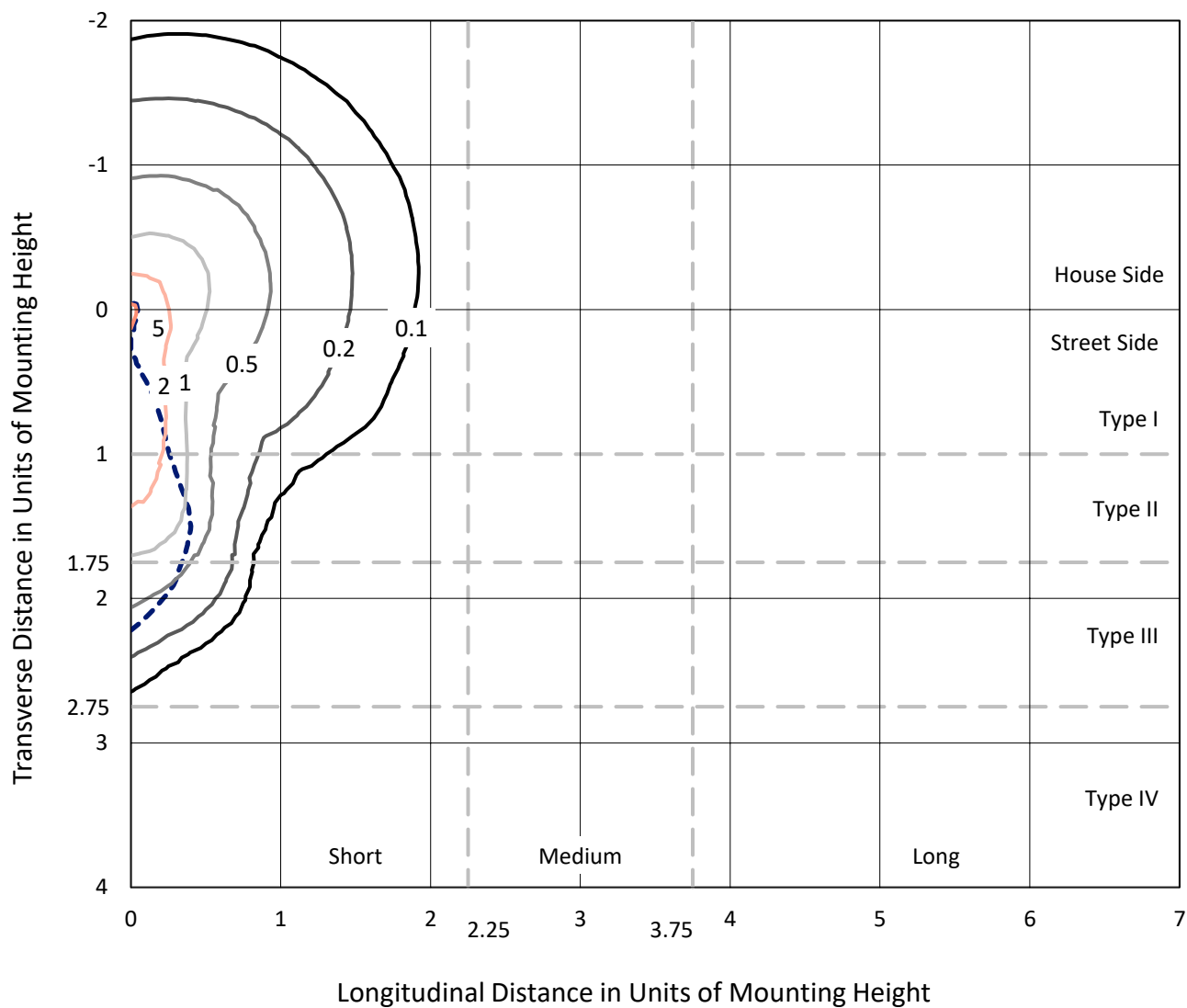
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

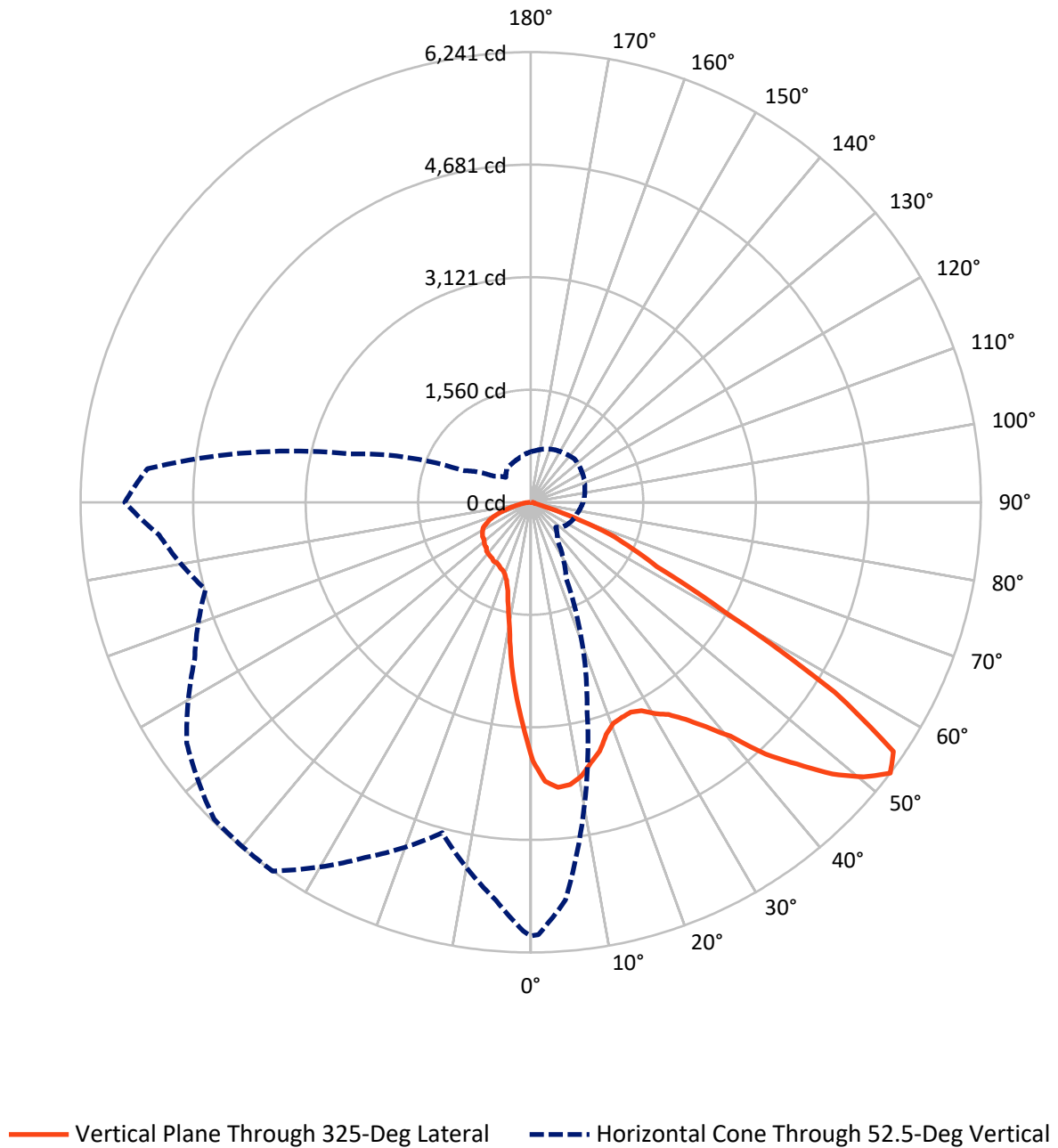
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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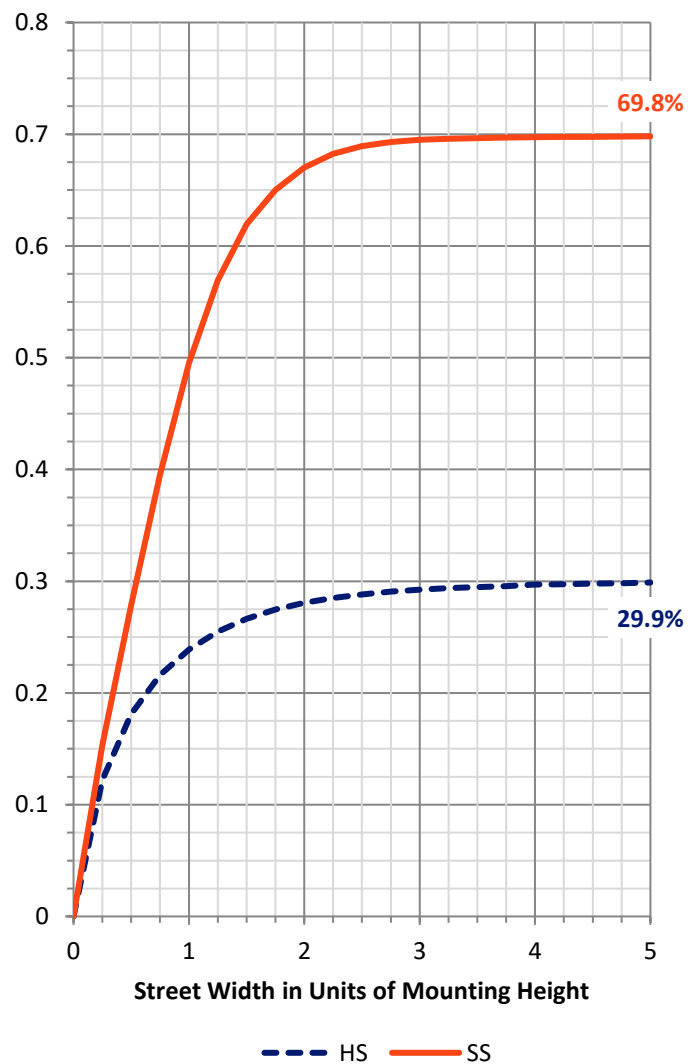
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2435.5	0.0	2435.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	5643.5	0.0	5643.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	8079.0	0.0	8079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	3.4
10°-20°	593.0	7.3
20°-30°	896.0	11.1
30°-40°	1294.7	16.0
40°-50°	1723.0	21.3
50°-60°	1927.3	23.9
60°-70°	1086.2	13.4
70°-80°	242.1	3.0
80°-90°	43.1	0.5
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°	8079.0	100.0
0°-180°	8079.0	100.0

Coefficient of Utilization



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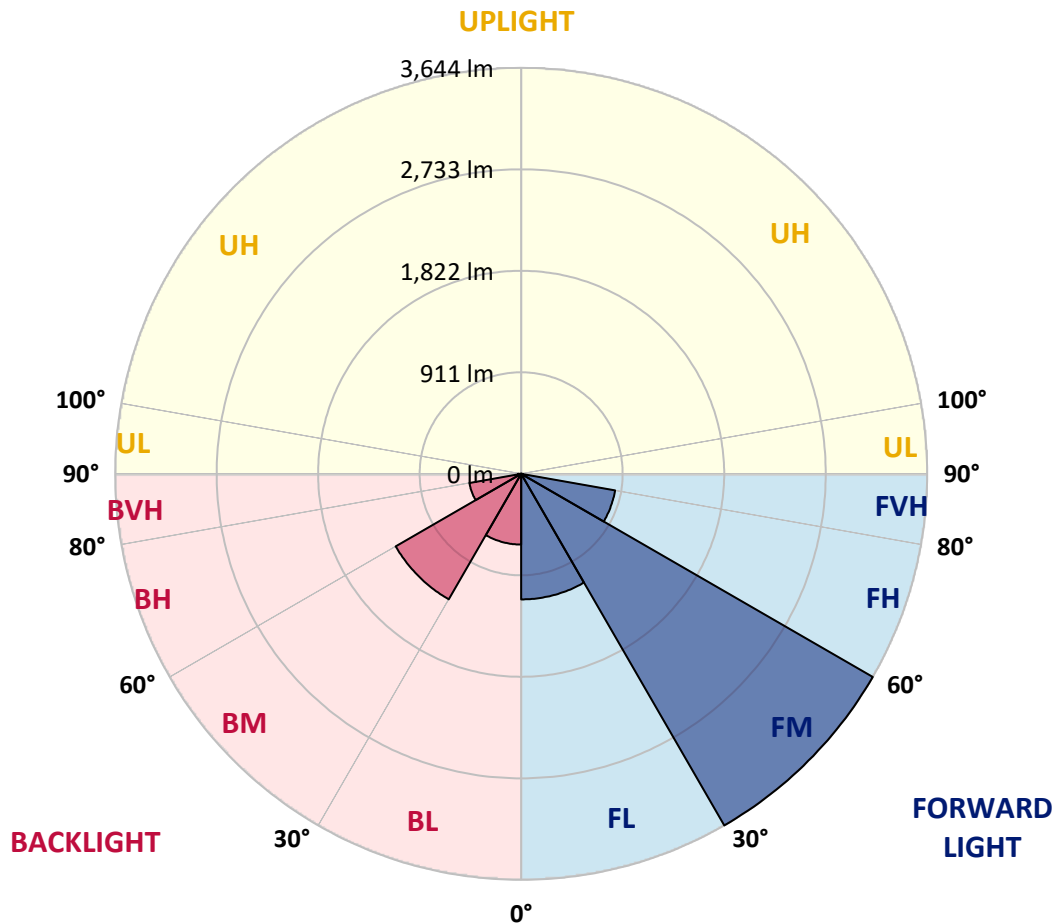
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1127.4	14.0			
FM	(30°-60°)	3644.2	45.1			
FH	(60°-80°)	856.3	10.6			G1/1800
FVH	(80°-90°)	15.6	0.2			G1/100
BL	(0°-30°)	635.1	7.9	B2/1000		
BM	(30°-60°)	1300.8	16.1	B2/2500		
BH	(60°-80°)	472.1	5.8	B1/500		G1/500
BVH	(80°-90°)	27.5	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5
2.5°	3645.2	3703.8	3640.5	3528.1	3448.5	3375.9	3299.8	3284.6	3185.0	3167.5	3094.9
5°	3438.0	3425.1	3347.8	3200.3	3037.5	2890.0	2781.1	2675.7	2604.2	2521.1	2515.2
7.5°	3186.2	3111.3	3066.8	2843.1	2641.7	2409.9	2310.3	2149.9	2099.5	2024.6	1986.0
10°	2961.4	2906.3	2802.1	2578.5	2297.4	2144.0	2037.5	1950.8	1892.3	1815.0	1717.8
12.5°	2850.1	2827.9	2710.8	2364.2	2155.8	1991.8	1916.9	1832.6	1733.0	1608.9	1560.9
15°	2870.0	2795.1	2706.1	2323.2	2035.1	1877.1	1757.6	1652.2	1524.6	1406.3	1337.2
17.5°	3018.8	2961.4	2783.4	2349.0	1989.5	1761.1	1544.5	1388.8	1274.0	1167.5	1119.4
20°	3311.5	3228.4	3028.1	2381.8	1891.1	1599.5	1351.3	1159.3	1036.3	980.1	963.7
22.5°	3635.9	3586.7	3267.0	2455.5	1812.7	1449.7	1146.4	954.3	908.7	893.5	923.9
25°	4030.5	3902.8	3638.2	2576.1	1751.8	1322.0	973.1	866.5	843.1	858.3	893.5
27.5°	4330.2	4296.3	3898.2	2689.7	1668.6	1168.6	875.9	805.6	812.7	827.9	860.7
30°	4686.2	4514.1	4149.9	2768.2	1593.7	1063.2	808.0	789.2	796.3	822.0	838.4
32.5°	4900.5	4836.1	4308.0	2886.4	1507.0	971.9	755.3	737.7	748.2	786.9	825.5
35°	5173.3	5045.7	4503.6	2916.9	1446.1	935.6	717.8	704.9	729.5	756.4	799.8
37.5°	5491.8	5404.0	4774.0	2895.8	1413.4	898.1	686.2	680.3	697.9	735.4	785.7
40°	5680.4	5653.4	4915.7	2908.7	1361.8	865.3	649.9	656.9	693.2	722.5	771.7
42.5°	5861.9	5686.2	5125.3	2904.0	1329.1	820.8	653.4	645.2	673.3	707.3	754.1
45°	5901.7	5727.2	5174.5	2871.2	1289.2	777.5	626.5	630.0	663.9	706.1	736.5
47.5°	5875.9	5747.1	5265.9	2861.9	1251.8	747.1	586.7	628.8	648.7	682.7	726.0
50°	5858.4	5851.3	5343.1	2906.3	1201.4	699.1	538.6	613.6	633.5	667.5	714.3
52.5°	6012.9	5997.7	5536.3	3023.4	1161.6	647.5	489.5	574.9	623.0	655.7	701.4
55°	6106.6	6039.9	5867.7	3167.5	1094.9	579.6	455.5	526.9	597.2	626.5	673.3
57.5°	5493.0	5447.4	5308.0	2956.7	982.4	490.6	413.4	477.8	562.1	607.7	655.7
60°	4570.3	4498.9	4141.7	2512.9	724.8	381.7	387.6	439.1	552.7	570.3	626.5
62.5°	4309.2	4132.4	3646.4	2022.3	556.2	327.9	347.8	404.0	503.5	532.8	589.0
65°	3419.2	3288.1	2608.9	1460.2	372.4	284.5	317.3	364.2	434.4	491.8	543.3
67.5°	2140.5	2015.2	1392.3	690.9	260.0	243.6	283.4	332.6	389.9	441.5	498.8
70°	1118.3	981.3	642.9	249.4	179.2	199.1	236.5	283.4	339.6	381.7	426.2
72.5°	416.9	338.4	209.6	107.7	124.1	152.2	192.0	226.0	265.8	317.3	341.9
75°	64.4	55.0	53.9	65.6	84.3	110.1	137.0	171.0	206.1	238.9	255.3
77.5°	30.4	29.3	32.8	43.3	56.2	78.5	99.5	132.3	160.4	181.5	190.9
80°	19.9	18.7	21.1	29.3	42.2	58.5	79.6	101.9	127.6	145.2	142.9
82.5°	11.7	12.9	12.9	19.9	29.3	42.2	57.4	77.3	94.8	110.1	100.7
85°	7.0	5.9	5.9	11.7	19.9	34.0	48.0	32.8	34.0	34.0	38.6
87.5°	2.3	2.3	2.3	1.2	2.3	2.3	3.5	5.9	7.0	8.2	10.5
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°	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5
2.5°	3092.5	3128.8	3116.0	3070.3	3105.4	3111.3	3087.8	3168.6	3183.9	3159.3	3166.3
5°	2507.0	2516.4	2537.5	2582.0	2613.6	2651.1	2651.1	2653.4	2621.8	2701.4	2678.0
7.5°	1953.2	1959.0	1983.6	2078.5	2105.4	2176.8	2207.3	2186.2	2123.0	2096.0	2118.3
10°	1686.2	1652.2	1644.0	1655.8	1716.6	1747.1	1772.8	1765.8	1755.3	1734.2	1710.8
12.5°	1508.2	1483.6	1463.7	1435.6	1439.1	1468.4	1488.3	1471.9	1476.6	1481.3	1488.3
15°	1315.0	1297.4	1286.9	1244.7	1240.1	1260.0	1267.0	1276.4	1293.9	1295.1	1286.9
17.5°	1110.1	1094.9	1118.3	1141.7	1125.3	1126.5	1139.4	1147.6	1142.9	1121.8	1111.3
20°	969.6	986.0	1009.4	1031.6	1049.2	1059.7	1064.4	1051.5	1036.3	993.0	991.8
22.5°	928.6	949.7	969.6	1003.5	1019.9	1046.8	1022.3	993.0	971.9	950.8	926.2
25°	898.1	915.7	955.5	968.4	1000.0	1022.3	1004.7	975.4	939.1	908.7	889.9
27.5°	875.9	895.8	921.6	956.7	981.3	994.2	976.6	964.9	927.4	891.1	864.2
30°	861.8	882.9	929.8	959.0	980.1	990.6	960.2	946.1	919.2	888.8	865.3
32.5°	852.5	871.2	911.0	948.5	962.5	962.5	967.2	950.8	913.4	861.8	841.9
35°	822.0	847.8	880.6	923.9	949.7	964.9	941.5	922.7	898.1	845.4	809.1
37.5°	804.5	822.0	864.2	905.2	927.4	943.8	934.4	901.6	868.9	825.5	796.3
40°	785.7	813.8	851.3	889.9	914.5	930.9	923.9	885.3	845.4	804.5	784.5
42.5°	772.8	791.6	830.2	873.5	902.8	934.4	913.4	865.3	837.2	781.0	758.8
45°	762.3	792.7	833.7	851.3	881.7	914.5	877.1	847.8	815.0	774.0	755.3
47.5°	749.4	777.5	804.5	851.3	865.3	880.6	873.5	826.7	798.6	754.1	741.2
50°	744.7	755.3	804.5	830.2	850.1	865.3	846.6	811.5	784.5	738.9	710.8
52.5°	726.0	745.9	777.5	811.5	836.1	854.8	824.4	802.1	765.8	717.8	700.2
55°	702.6	714.3	770.5	805.6	818.5	831.4	819.7	783.4	745.9	696.7	679.2
57.5°	672.1	699.1	744.7	793.9	810.3	817.3	798.6	769.3	722.5	679.2	651.1
60°	640.5	668.6	719.0	758.8	775.2	800.9	772.8	755.3	701.4	653.4	623.0
62.5°	608.9	640.5	678.0	728.3	742.4	752.9	745.9	721.3	678.0	624.1	586.7
65°	571.4	594.9	641.7	667.5	676.8	701.4	676.8	667.5	628.8	577.3	545.7
67.5°	515.2	535.1	576.1	600.7	607.7	618.3	617.1	606.6	563.2	528.1	500.0
70°	450.8	468.4	494.1	523.4	526.9	539.8	528.1	525.8	497.7	449.7	434.4
72.5°	361.8	378.2	412.2	425.1	426.2	430.9	425.1	416.9	409.8	359.5	344.3
75°	277.5	286.9	303.3	315.0	315.0	320.8	317.3	309.1	290.4	258.8	243.6
77.5°	193.2	202.6	223.7	230.7	229.5	231.9	221.3	213.1	185.0	168.6	155.7
80°	140.5	146.4	156.9	161.6	162.8	166.3	153.4	146.4	130.0	111.2	105.4
82.5°	101.9	105.4	106.6	112.4	112.4	106.6	103.0	96.0	84.3	72.6	67.9
85°	42.2	43.3	44.5	51.5	52.7	63.2	58.5	55.0	48.0	41.0	37.5
87.5°	10.5	11.7	15.2	12.9	15.2	15.2	16.4	18.7	18.7	15.2	15.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5
2.5°	3193.2	3202.6	3322.0	3337.3	3395.8	3455.5	3576.1	3662.8	3733.1	3778.7	3791.6
5°	2702.6	2762.3	2817.4	2906.3	2987.1	3101.9	3234.2	3398.2	3604.2	3709.6	3751.8
7.5°	2115.9	2186.2	2265.8	2352.5	2470.7	2676.8	2853.7	3043.4	3306.8	3415.7	3580.8
10°	1727.2	1805.6	1911.0	1977.8	2120.6	2317.3	2523.4	2742.4	2994.2	3151.1	3341.9
12.5°	1526.9	1591.3	1688.5	1829.1	1935.6	2063.2	2216.6	2493.0	2853.7	3002.4	3133.5
15°	1305.6	1377.1	1489.5	1645.2	1772.8	1925.1	2097.2	2398.1	2782.2	3011.7	3123.0
17.5°	1123.0	1174.5	1292.8	1427.4	1573.8	1740.1	1987.1	2393.5	2857.2	3151.1	3332.6
20°	996.5	1003.5	1067.9	1182.7	1381.7	1598.4	1919.2	2370.0	3097.2	3391.1	3620.6
22.5°	916.9	909.8	911.0	1008.2	1147.6	1459.0	1812.7	2449.7	3370.1	3772.9	3927.4
25°	877.1	858.3	846.6	867.7	994.2	1293.9	1731.9	2555.1	3664.0	4087.9	4277.6
27.5°	856.0	823.2	799.8	803.3	895.8	1210.8	1681.5	2600.7	3955.5	4527.0	4593.7
30°	847.8	806.8	772.8	761.1	822.0	1094.9	1573.8	2679.2	4216.7	4768.2	4825.6
32.5°	818.5	768.2	735.4	724.8	749.4	993.0	1496.5	2735.4	4447.3	5030.5	5010.6
35°	784.5	742.4	701.4	681.5	699.1	927.4	1434.4	2708.5	4719.0	5234.2	5223.7
37.5°	781.0	726.0	692.0	659.3	658.1	846.6	1350.1	2734.2	4892.3	5599.6	5455.5
40°	750.6	715.5	671.0	644.0	628.8	805.6	1268.2	2673.3	5146.4	5747.1	5605.4
42.5°	751.8	699.1	660.4	628.8	613.6	745.9	1212.0	2656.9	5235.4	5987.2	5675.7
45°	733.0	681.5	648.7	611.2	603.0	700.2	1158.1	2580.8	5392.3	5998.9	5587.9
47.5°	714.3	668.6	633.5	589.0	570.3	683.8	1115.9	2517.6	5310.3	5888.8	5466.1
50°	701.4	648.7	615.9	584.3	531.6	655.7	1060.9	2502.4	5195.6	5740.1	5240.1
52.5°	679.2	632.3	598.4	573.8	489.5	630.0	1039.8	2591.4	5336.1	5628.9	5174.5
55°	658.1	610.1	566.7	518.7	454.3	562.1	981.3	2674.5	5541.0	5885.3	5471.9
57.5°	635.8	590.2	543.3	486.0	420.4	491.8	920.4	2689.7	5157.0	5439.2	5194.4
60°	606.6	548.0	512.9	437.9	384.1	407.5	729.5	2371.2	4000.0	4542.2	4550.4
62.5°	573.8	510.5	480.1	392.3	346.6	351.3	594.9	1993.0	3244.8	3760.0	3983.6
65°	530.4	469.6	433.3	363.0	319.7	304.5	435.6	1460.2	2464.9	3050.4	3304.5
67.5°	474.2	416.9	371.2	316.2	285.7	261.1	297.4	822.0	1455.5	2048.0	2125.3
70°	414.5	365.3	317.3	271.7	237.7	220.1	217.8	364.2	695.6	1101.9	1254.1
72.5°	326.7	291.6	252.9	219.0	196.7	171.0	155.7	151.1	235.4	448.5	619.4
75°	234.2	204.9	182.7	160.4	144.0	130.0	118.3	107.7	98.4	112.4	154.6
77.5°	147.5	137.0	119.4	113.6	104.2	100.7	96.0	90.2	83.1	78.5	78.5
80°	99.5	92.5	86.7	85.5	82.0	80.8	82.0	76.1	69.1	63.2	65.6
82.5°	66.7	65.6	64.4	63.2	64.4	65.6	67.9	66.7	60.9	57.4	58.5
85°	39.8	42.2	44.5	46.8	51.5	45.7	37.5	31.6	28.1	25.8	24.6
87.5°	15.2	21.1	18.7	17.6	18.7	17.6	16.4	15.2	12.9	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-SA3A-830-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5	3585.5
2.5°	3877.1	3900.5	3920.4	3915.7	3874.7	3819.7	3797.5	3683.9	3660.5	3645.2
5°	3929.8	4065.6	4094.9	4077.3	3970.8	3836.1	3704.9	3538.7	3441.5	3438.0
7.5°	3832.6	4000.0	4052.7	4092.5	3950.9	3716.7	3491.8	3242.4	3181.5	3186.2
10°	3585.5	3852.5	3982.5	4023.5	3860.7	3658.1	3346.6	3093.7	2963.7	2961.4
12.5°	3448.5	3658.1	3694.4	3751.8	3703.8	3498.9	3262.3	2978.9	2852.5	2850.1
15°	3326.7	3464.9	3475.4	3556.2	3582.0	3443.8	3284.6	2982.5	2880.6	2870.0
17.5°	3433.3	3337.3	3297.5	3308.0	3384.1	3434.5	3413.4	3181.5	3077.3	3018.8
20°	3504.7	3290.4	3169.8	3181.5	3271.7	3455.5	3605.4	3469.6	3304.5	3311.5
22.5°	3695.6	3297.5	3108.9	3096.0	3238.9	3565.6	3822.0	3833.8	3674.5	3635.9
25°	3981.3	3378.2	3090.2	3086.7	3223.7	3683.9	4075.0	4264.7	4101.9	4030.5
27.5°	4210.8	3504.7	3148.7	3160.4	3271.7	3779.9	4290.4	4542.2	4418.1	4330.2
30°	4412.2	3635.9	3230.7	3176.8	3400.5	3830.2	4382.9	4858.4	4758.8	4686.2
32.5°	4495.4	3822.0	3360.7	3271.7	3507.1	3891.1	4575.0	5165.1	5079.7	4900.5
35°	4635.9	3926.3	3430.9	3423.9	3693.2	4037.5	4665.1	5367.7	5332.6	5173.3
37.5°	4748.3	4031.6	3680.4	3603.1	3948.5	4283.4	4810.3	5647.6	5566.8	5491.8
40°	4834.9	4220.2	3913.4	4015.3	4262.3	4507.1	4943.8	5665.2	5898.2	5680.4
42.5°	4755.3	4388.8	4296.3	4539.9	4774.0	4762.3	4959.1	5801.0	5975.5	5861.9
45°	4735.4	4674.5	4901.7	5123.0	5176.9	4974.3	4850.2	5651.1	5952.0	5901.7
47.5°	4687.4	4955.5	5351.3	5712.0	5630.0	5116.0	4720.2	5624.2	5966.1	5875.9
50°	4671.0	5016.4	5683.9	6035.2	5986.0	5238.9	4659.3	5450.9	5866.6	5858.4
52.5°	4669.8	5141.7	5822.1	6210.8	6241.3	5433.3	4742.4	5538.7	5943.8	6012.9
55°	4722.5	5101.9	5804.5	6113.6	6101.9	5346.6	4751.8	5597.2	6038.7	6106.6
57.5°	4454.4	4570.3	4790.4	5035.2	4971.9	4428.6	4243.6	5174.5	5542.2	5493.0
60°	3846.6	3483.6	3235.4	3223.7	3100.7	2930.9	3473.1	4618.3	4618.3	4570.3
62.5°	3368.9	2286.9	1964.9	1873.6	1961.4	2156.9	3350.1	4491.8	4364.2	4309.2
65°	2946.2	1745.9	1420.4	1394.6	1546.9	1841.9	3029.3	3826.7	3601.9	3419.2
67.5°	1895.8	1278.7	1056.2	1010.5	1194.4	1352.5	2016.4	2353.6	2212.0	2140.5
70°	1222.5	832.6	587.8	551.5	623.0	833.7	1288.1	1372.4	1166.3	1118.3
72.5°	578.5	359.5	206.1	169.8	190.9	318.5	509.4	548.0	455.5	416.9
75°	183.8	132.3	84.3	72.6	69.1	82.0	117.1	90.2	65.6	64.4
77.5°	82.0	78.5	66.7	56.2	49.2	41.0	34.0	28.1	29.3	30.4
80°	67.9	62.1	55.0	49.2	41.0	31.6	24.6	18.7	18.7	19.9
82.5°	59.7	53.9	48.0	41.0	35.1	25.8	18.7	12.9	11.7	11.7
85°	25.8	30.4	32.8	35.1	28.1	21.1	12.9	8.2	7.0	7.0
87.5°	10.5	9.4	8.2	7.0	5.9	5.9	4.7	3.5	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)