

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: P528106

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528106  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)  
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-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT 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 II - Short  
BUG Rating: B2 - U0 - G1

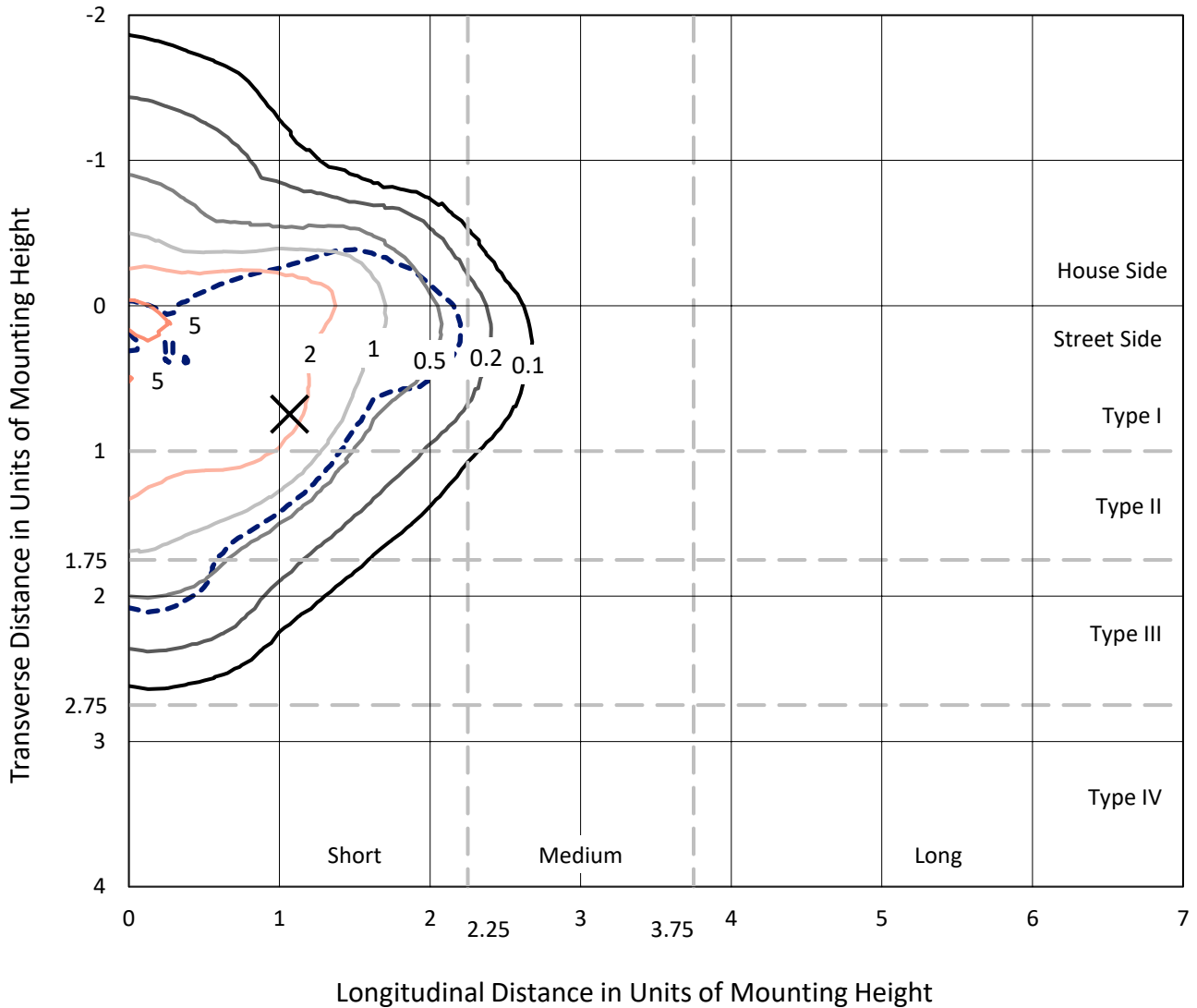
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

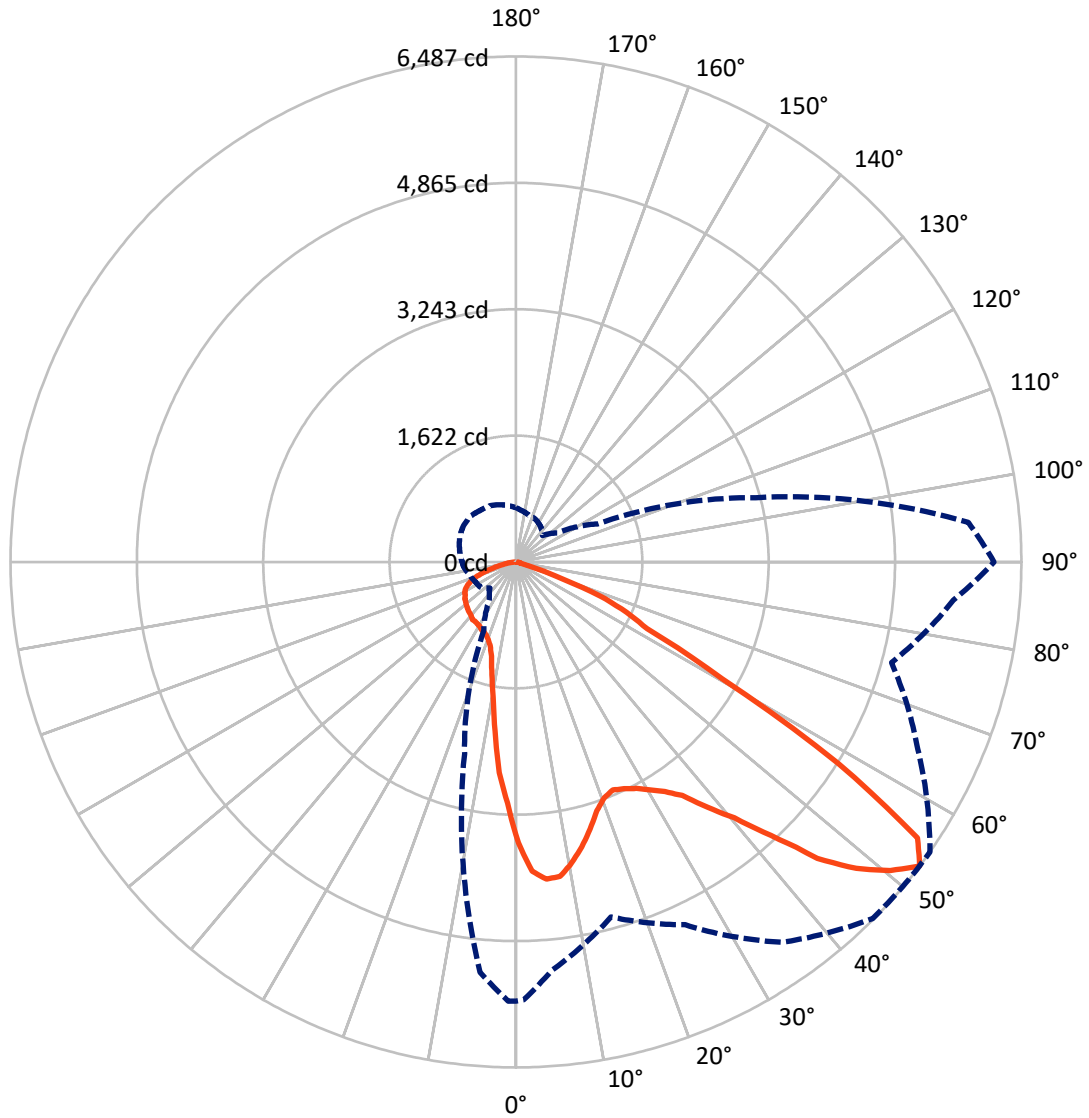
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2464.5	0.0	2464.5
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	5614.5	0.0	5614.5
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	8079.0	0.0	8079.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.3	3.4
10°-20°	593.6	7.3
20°-30°	900.2	11.1
30°-40°	1300.6	16.1
40°-50°	1737.9	21.5
50°-60°	1939.9	24.0
60°-70°	1064.1	13.2
70°-80°	230.1	2.8
80°-90°	37.2	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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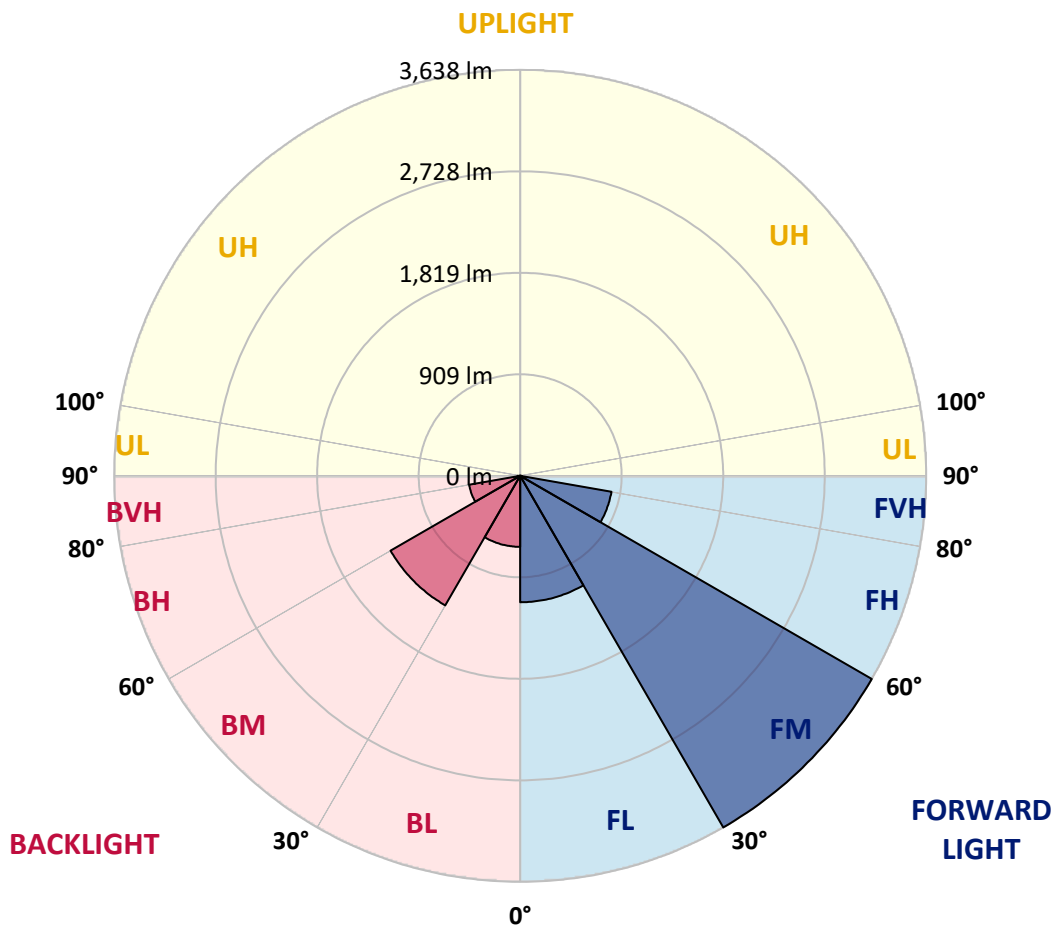
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.8	14.0			
FM (30°-60°)	3637.5	45.0			
FH (60°-80°)	830.3	10.3			G1/1800
FVH (80°-90°)	13.8	0.2			G1/100
BL (0°-30°)	636.3	7.9	B2/1000		
BM (30°-60°)	1340.9	16.6	B2/2500		
BH (60°-80°)	463.9	5.7	B1/500		G1/500
BVH (80°-90°)	23.4	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9
2.5°	3782.0	3760.8	3779.6	3869.3	3921.2	3956.6	3979.0	3975.5	3890.5	3807.9	3807.9
5°	3671.1	3644.0	3682.9	3885.8	4089.9	4107.6	4137.1	4088.7	3963.7	3812.7	3623.9
7.5°	3350.2	3370.3	3435.2	3701.8	3967.2	4100.5	4135.9	4074.5	3871.6	3589.7	3312.5
10°	3073.0	3120.2	3270.0	3557.9	3802.0	3975.5	4014.4	3928.3	3767.8	3422.2	3174.5
12.5°	2977.5	2948.0	3114.3	3402.1	3635.7	3728.9	3746.6	3752.5	3644.0	3337.3	3035.3
15°	2965.7	2984.5	3114.3	3332.5	3476.5	3481.2	3510.7	3556.7	3570.8	3395.1	3100.1
17.5°	3135.5	3113.1	3246.4	3419.8	3351.4	3283.0	3290.1	3356.1	3472.9	3444.6	3304.2
20°	3386.8	3437.5	3542.5	3524.8	3340.8	3167.4	3168.6	3231.1	3461.1	3649.9	3588.5
22.5°	3804.4	3853.9	3931.8	3718.3	3340.8	3133.2	3093.1	3178.0	3536.6	3894.1	3909.4
25°	4185.4	4276.3	4297.5	4046.2	3508.3	3165.0	3139.1	3222.8	3612.1	4132.3	4277.4
27.5°	4532.3	4565.3	4658.5	4257.4	3601.5	3186.3	3183.9	3291.2	3707.7	4251.5	4606.6
30°	4805.9	4802.4	4855.5	4390.7	3750.1	3305.4	3191.0	3393.9	3832.7	4448.5	4910.9
32.5°	4992.3	5032.4	5144.5	4575.9	3812.7	3418.7	3329.0	3514.2	3984.9	4541.7	5125.6
35°	5320.3	5389.9	5248.3	4678.5	4010.8	3530.7	3425.7	3678.2	4060.4	4643.1	5388.7
37.5°	5629.3	5576.2	5432.3	4734.0	4139.4	3738.3	3640.4	3995.5	4295.1	4863.7	5563.3
40°	5827.5	5826.3	5570.4	4778.8	4230.3	4055.7	4049.8	4317.6	4583.0	5002.9	5759.1
42.5°	5913.6	5996.2	5627.0	4774.1	4421.4	4440.2	4559.4	4798.9	4787.1	5031.2	5754.4
44°	6031.6	6081.1	5724.9	4784.7	4548.8	4699.8	4980.5	5132.7	4965.2	5015.9	5748.5
45°	6026.9	6030.4	5585.7	4798.9	4657.3	4916.8	5168.1	5425.3	5122.1	4982.9	5826.3
47.5°	5888.9	5848.8	5467.7	4693.9	4995.9	5490.1	5722.5	5878.2	5315.5	4912.1	5729.6
50°	5616.4	5570.4	5181.1	4649.0	5066.6	5846.4	6167.3	6223.9	5491.3	4842.5	5634.1
52.5°	5635.2	5622.3	5262.5	4716.3	5137.4	5958.5	6472.8	6486.9	5690.7	4988.8	5635.2
55°	5972.6	5927.8	5496.0	4800.0	5085.5	5827.5	6278.1	6253.4	5623.4	4900.3	5739.0
57.5°	5465.4	5494.9	5172.8	4468.5	4450.9	4737.5	4935.7	4874.4	4692.7	4422.5	5339.1
60°	4409.6	4493.3	4524.0	3737.2	3358.5	3211.0	3152.0	3043.5	3074.2	3633.4	4690.3
62.5°	3782.0	3777.3	3969.6	3388.0	2200.1	1892.2	1863.9	1888.6	2242.5	3576.7	4593.6
65°	2998.7	3078.9	3137.9	2871.3	1741.2	1405.0	1403.8	1560.7	1940.5	2989.3	3708.8
67.5°	1904.0	2009.0	2082.1	1836.7	1164.3	1000.4	973.2	1162.0	1344.8	1960.6	2233.1
70°	1073.5	1123.0	1156.1	1059.3	740.8	519.1	488.4	533.2	812.8	1269.3	1323.6
72.5°	414.1	436.5	481.3	484.8	279.6	167.5	135.7	162.8	342.1	502.5	478.9
75°	63.7	68.4	96.7	115.6	80.2	61.3	64.9	67.2	95.6	129.8	108.5
77.5°	30.7	30.7	29.5	34.2	40.1	43.6	47.2	51.9	56.6	62.5	60.2
80°	20.1	20.1	20.1	23.6	29.5	35.4	40.1	42.5	44.8	49.5	47.2
82.5°	13.0	13.0	13.0	17.7	23.6	29.5	31.9	37.7	42.5	49.5	46.0
85°	7.1	7.1	7.1	11.8	17.7	24.8	23.6	18.9	10.6	1.2	2.4
87.5°	2.4	2.4	2.4	2.4	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°	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9
2.5°	3708.8	3654.6	3649.9	3539.0	3439.9	3391.5	3352.6	3244.1	3267.7	3205.1	3204.0
5°	3529.5	3418.7	3239.3	3091.9	2944.4	2914.9	2786.4	2674.3	2677.8	2597.6	2611.8
7.5°	3207.5	3130.8	2912.6	2681.4	2485.5	2346.3	2224.8	2151.7	2058.5	2026.7	2010.1
10°	3003.4	2909.0	2663.7	2373.5	2154.1	2079.7	1963.0	1898.1	1802.5	1755.3	1722.3
12.5°	2913.8	2775.7	2469.0	2174.1	2027.8	1951.2	1852.1	1734.1	1620.9	1577.2	1517.0
15°	2923.2	2758.0	2412.4	2093.9	1918.1	1769.5	1681.0	1550.1	1434.5	1357.8	1314.1
17.5°	3065.9	2865.4	2438.4	2032.6	1780.1	1593.7	1420.3	1278.8	1186.7	1128.9	1114.8
20°	3403.3	3130.8	2482.0	1933.5	1642.1	1409.7	1196.2	1048.7	977.9	976.8	977.9
22.5°	3684.1	3413.9	2570.5	1874.5	1504.1	1173.8	961.4	914.2	900.1	929.6	933.1
25°	4062.7	3732.4	2722.7	1843.8	1376.7	1000.4	869.4	851.7	850.5	888.3	889.5
27.5°	4450.9	4010.8	2813.5	1754.2	1246.9	910.7	814.0	810.4	829.3	869.4	865.9
30°	4715.1	4244.4	2977.5	1646.8	1093.5	831.7	791.6	796.3	822.2	852.9	857.6
32.5°	5023.0	4474.4	3019.9	1587.8	999.2	765.6	737.3	747.9	780.9	829.3	855.3
35°	5375.7	4637.2	3084.8	1507.6	963.8	714.9	700.7	712.5	752.6	784.5	812.8
37.5°	5636.4	4925.1	3096.6	1445.1	924.9	686.6	664.1	703.1	726.7	771.5	785.7
40°	5829.9	5133.9	3127.3	1406.2	894.2	650.0	650.0	675.9	707.8	749.1	777.4
42.5°	5953.7	5286.1	3149.7	1370.8	835.2	639.4	633.5	659.4	701.9	742.0	755.0
44°	6029.2	5350.9	3127.3	1337.7	818.7	626.4	626.4	648.8	681.8	729.0	744.4
45°	6048.1	5432.3	3077.7	1336.6	798.6	611.1	608.7	651.2	673.6	731.4	740.8
47.5°	6121.3	5532.6	3083.6	1298.8	750.3	574.5	615.8	634.7	654.7	705.4	737.3
50°	6118.9	5595.1	3070.7	1243.4	714.9	533.2	601.6	622.9	642.9	694.8	707.8
52.5°	6135.4	5828.7	3189.8	1154.9	651.2	480.1	554.4	601.6	626.4	670.0	697.2
55°	6127.2	5962.0	3307.8	1088.8	561.5	448.3	514.3	569.8	605.2	651.2	664.1
57.5°	5596.3	5269.5	3061.2	965.0	464.8	410.5	457.7	536.7	581.6	628.8	645.3
60°	4572.4	4061.6	2524.5	710.2	382.2	377.5	425.9	526.1	545.0	586.3	614.6
62.5°	4225.5	3562.6	2001.9	542.6	326.8	345.6	392.8	475.4	504.9	555.6	581.6
65°	3306.6	2366.4	1239.8	366.9	287.8	310.3	355.1	416.4	464.8	512.0	542.6
67.5°	1958.2	1292.9	613.4	257.2	251.3	274.9	320.9	366.9	422.3	474.2	489.6
70°	1066.4	635.8	261.9	195.8	213.5	234.8	279.6	311.4	364.5	404.6	430.6
72.5°	342.1	193.5	130.9	145.1	162.8	187.6	214.7	253.6	291.4	315.0	336.2
75°	82.6	81.4	93.2	101.5	118.0	136.8	159.3	179.3	208.8	231.2	250.1
77.5°	57.8	62.5	72.0	83.8	89.7	96.7	110.9	126.2	139.2	155.7	167.5
80°	44.8	48.4	55.4	61.3	67.2	73.1	80.2	86.1	94.4	105.0	110.9
82.5°	42.5	44.8	51.9	55.4	53.1	51.9	56.6	59.0	60.2	63.7	67.2
85°	3.5	0.0	2.4	8.3	20.1	29.5	31.9	31.9	30.7	33.0	33.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.7	3.5
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9
2.5°	3189.8	3149.7	3165.0	3183.9	3156.8	3094.2	3110.8	3103.7	3167.4	3162.7	3226.4
5°	2674.3	2611.8	2618.8	2710.9	2681.4	2713.2	2649.5	2641.3	2653.1	2659.0	2669.6
7.5°	2046.7	2038.5	2109.2	2187.1	2223.7	2185.9	2123.4	2109.2	2096.3	2070.3	2129.3
10°	1670.4	1672.8	1668.0	1727.0	1768.3	1760.1	1722.3	1717.6	1692.8	1683.4	1716.4
12.5°	1491.1	1459.2	1443.9	1425.0	1456.9	1478.1	1461.6	1449.8	1451.0	1462.8	1467.5
15°	1317.7	1297.6	1264.6	1243.4	1258.7	1248.1	1242.2	1265.8	1259.9	1257.5	1285.8
17.5°	1123.0	1139.6	1137.2	1113.6	1133.7	1125.4	1124.2	1107.7	1085.3	1068.8	1078.2
20°	994.5	1025.1	1048.7	1049.9	1060.5	1059.3	1041.6	990.9	974.4	970.9	973.2
22.5°	948.4	965.0	993.3	1033.4	1033.4	1014.5	993.3	934.3	919.0	902.4	895.4
25°	911.9	943.7	980.3	985.0	1003.9	986.2	952.0	922.5	890.6	868.2	868.2
27.5°	893.0	928.4	955.5	963.8	989.7	975.6	940.2	902.4	864.7	863.5	843.5
30°	884.7	917.8	935.5	955.5	967.3	944.9	934.3	894.2	856.4	847.0	814.0
32.5°	860.0	907.2	940.2	935.5	944.9	935.5	920.1	887.1	844.6	823.4	819.9
35°	831.7	878.8	914.2	939.0	944.9	924.9	915.4	870.6	812.8	802.2	765.6
37.5°	816.3	844.6	888.3	928.4	936.6	926.0	894.2	848.2	790.4	778.6	746.7
40°	797.4	834.0	868.2	901.3	926.0	900.1	863.5	818.7	792.7	757.3	747.9
42.5°	783.3	824.6	852.9	889.5	917.8	883.6	841.1	810.4	773.9	750.3	723.1
44°	778.6	816.3	835.2	880.0	903.6	877.7	842.3	810.4	768.0	746.7	723.1
45°	762.1	814.0	834.0	874.1	894.2	872.9	828.1	796.3	765.6	739.6	714.9
47.5°	745.5	780.9	815.1	847.0	861.2	854.1	816.3	777.4	740.8	725.5	701.9
50°	740.8	776.2	808.1	837.6	854.1	839.9	805.7	768.0	725.5	700.7	680.7
52.5°	717.2	760.9	796.3	805.7	826.9	818.7	792.7	751.4	711.3	690.1	673.6
55°	683.0	729.0	777.4	789.2	819.9	806.9	768.0	729.0	694.8	663.0	641.7
57.5°	670.0	714.9	762.1	777.4	796.3	775.0	765.6	724.3	670.0	653.5	620.5
60°	637.0	693.6	732.6	768.0	769.1	763.2	746.7	699.5	654.7	624.0	600.4
62.5°	611.1	664.1	694.8	727.8	747.9	731.4	714.9	671.2	622.9	588.6	561.5
65°	573.3	621.7	647.6	667.7	690.1	687.7	659.4	627.6	576.9	549.7	523.8
67.5°	515.5	558.0	593.4	612.2	626.4	622.9	601.6	579.2	527.3	500.2	481.3
70°	445.9	489.6	512.0	522.6	536.7	543.8	527.3	516.7	470.7	435.3	417.6
72.5°	358.6	386.9	420.0	429.4	435.3	440.0	440.0	430.6	383.4	369.2	338.6
75°	264.2	286.7	311.4	311.4	322.0	323.2	325.6	319.7	284.3	265.4	258.3
77.5°	179.3	195.8	215.9	224.1	231.2	230.0	228.9	212.3	193.5	185.2	178.1
80°	116.8	133.3	142.7	153.4	160.4	159.3	161.6	149.8	141.6	127.4	129.8
82.5°	69.6	82.6	92.0	105.0	105.0	108.5	108.5	105.0	96.7	89.7	89.7
85°	33.0	43.6	49.5	57.8	62.5	63.7	56.6	48.4	40.1	36.6	40.1
87.5°	5.9	8.3	11.8	10.6	13.0	11.8	11.8	11.8	11.8	9.4	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528106

CATALOG NUMBER: GALN-SA3A-830-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9
2.5°	3202.8	3261.8	3303.0	3371.5	3489.4	3583.8	3680.5	3752.5	3760.8	3782.0
5°	2708.5	2740.3	2845.3	2982.2	3078.9	3238.2	3340.8	3527.2	3596.8	3671.1
7.5°	2115.1	2167.0	2307.4	2399.4	2611.8	2811.1	3017.6	3247.6	3339.6	3350.2
10°	1783.6	1859.1	1954.7	2102.2	2217.8	2439.5	2696.7	2952.7	3055.3	3073.0
12.5°	1566.6	1663.3	1790.7	1896.9	2007.8	2201.2	2447.8	2763.9	2897.2	2977.5
15°	1357.8	1458.1	1598.4	1745.9	1843.8	2075.0	2365.2	2721.5	2894.9	2965.7
17.5°	1143.1	1236.3	1351.9	1511.1	1708.1	1967.7	2352.2	2863.0	3053.0	3135.5
20°	959.1	1011.0	1145.4	1309.4	1556.0	1858.0	2357.0	3071.8	3350.2	3386.8
22.5°	887.1	898.9	952.0	1103.0	1373.1	1745.9	2440.7	3367.9	3684.1	3804.4
25°	831.7	829.3	843.5	944.9	1239.8	1702.2	2523.3	3640.4	4054.5	4185.4
27.5°	801.0	777.4	778.6	874.1	1145.4	1631.5	2629.5	3953.0	4474.4	4532.3
30°	785.7	780.9	766.8	805.7	1042.8	1525.3	2647.2	4260.9	4722.2	4805.9
32.5°	776.2	730.2	712.5	726.7	946.1	1409.7	2713.2	4463.8	5028.9	4992.3
35°	729.0	687.7	675.9	690.1	877.7	1344.8	2669.6	4640.8	5258.9	5320.3
37.5°	711.3	674.8	651.2	639.4	814.0	1290.5	2647.2	4913.3	5481.9	5629.3
40°	694.8	655.9	627.6	615.8	764.4	1218.6	2640.1	5123.3	5739.0	5827.5
42.5°	675.9	651.2	619.3	598.1	704.3	1146.6	2558.7	5188.1	5818.1	5913.6
44°	670.0	632.3	599.3	592.2	680.7	1110.1	2542.2	5247.1	5886.5	6031.6
45°	664.1	628.8	591.0	581.6	672.4	1090.0	2519.8	5261.3	5999.7	6026.9
47.5°	647.6	625.2	588.6	562.7	654.7	1046.4	2452.5	5181.1	5884.1	5888.9
50°	634.7	608.7	571.0	520.2	631.1	1009.8	2483.2	5151.6	5605.7	5616.4
52.5°	620.5	581.6	560.3	473.0	592.2	979.1	2548.1	5284.9	5637.6	5635.2
55°	604.0	561.5	509.6	432.9	527.3	940.2	2705.0	5547.9	5932.5	5972.6
57.5°	578.0	541.5	467.1	397.5	453.0	865.9	2654.2	5044.2	5458.3	5465.4
60°	543.8	509.6	423.5	370.4	371.6	683.0	2373.5	3930.6	4306.9	4409.6
62.5°	510.8	491.9	386.9	331.5	316.1	543.8	2006.6	3266.5	3697.1	3782.0
65°	471.9	425.9	355.1	302.0	271.3	381.0	1421.5	2440.7	2884.3	2998.7
67.5°	422.3	372.8	312.6	265.4	232.4	254.8	733.7	1387.3	1836.7	1904.0
70°	369.2	323.2	263.1	224.1	187.6	175.8	323.2	661.8	1003.9	1073.5
72.5°	303.2	260.7	210.0	176.9	140.4	121.5	108.5	176.9	356.3	414.1
75°	219.4	189.9	158.1	126.2	99.1	77.9	63.7	53.1	59.0	63.7
77.5°	161.6	138.0	116.8	89.7	69.6	55.4	43.6	33.0	31.9	30.7
80°	126.2	112.1	93.2	72.0	54.3	41.3	30.7	22.4	20.1	20.1
82.5°	99.1	92.0	76.7	59.0	44.8	33.0	22.4	15.3	13.0	13.0
85°	37.7	37.7	55.4	48.4	34.2	23.6	15.3	8.3	7.1	7.1
87.5°	9.4	9.4	9.4	9.4	8.3	7.1	7.1	3.5	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)