

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: P652234

Luminaire Tested: **GALN-SA2B-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652234  
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-SA2B-840-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA 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: 7167 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

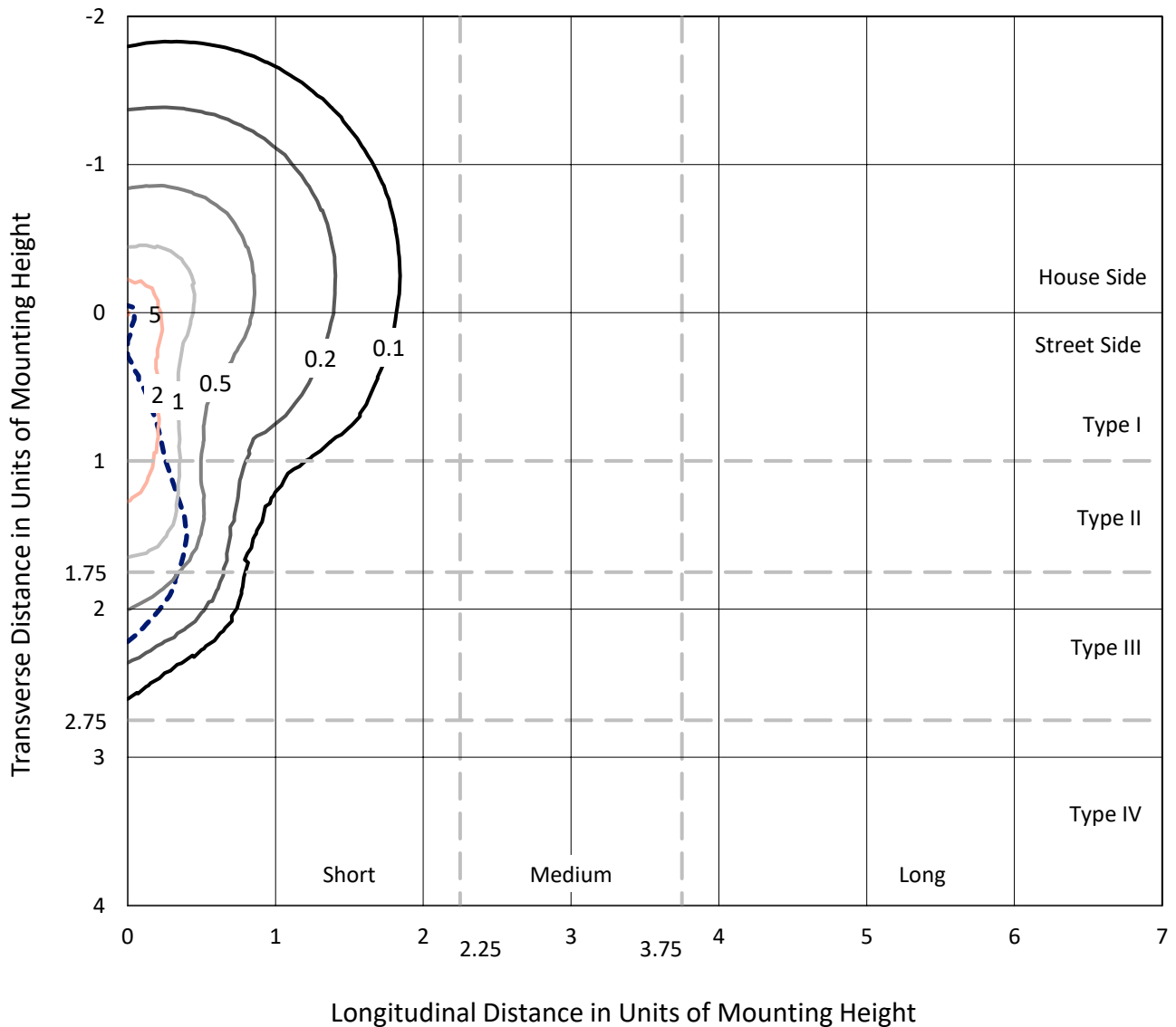
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

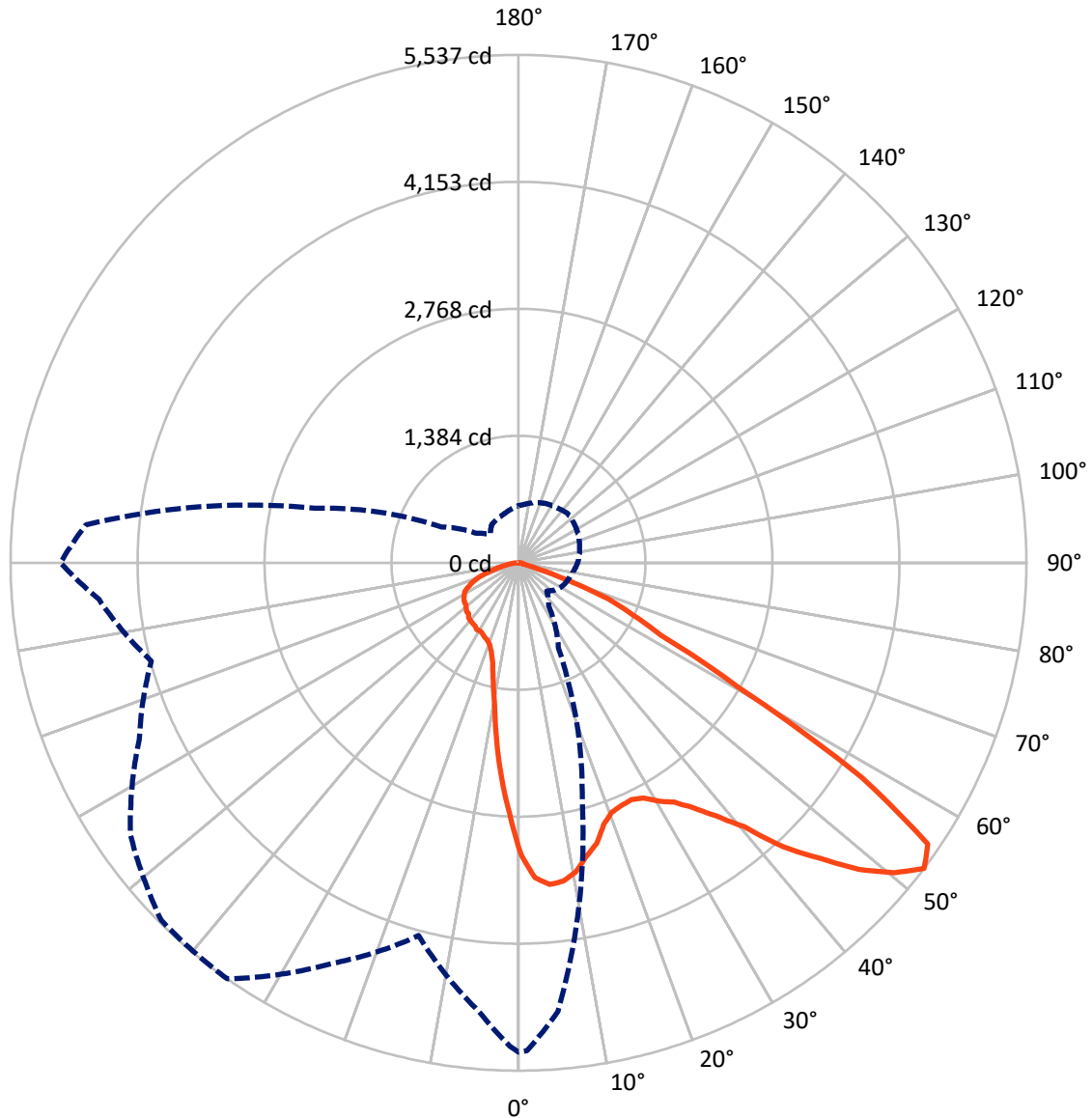
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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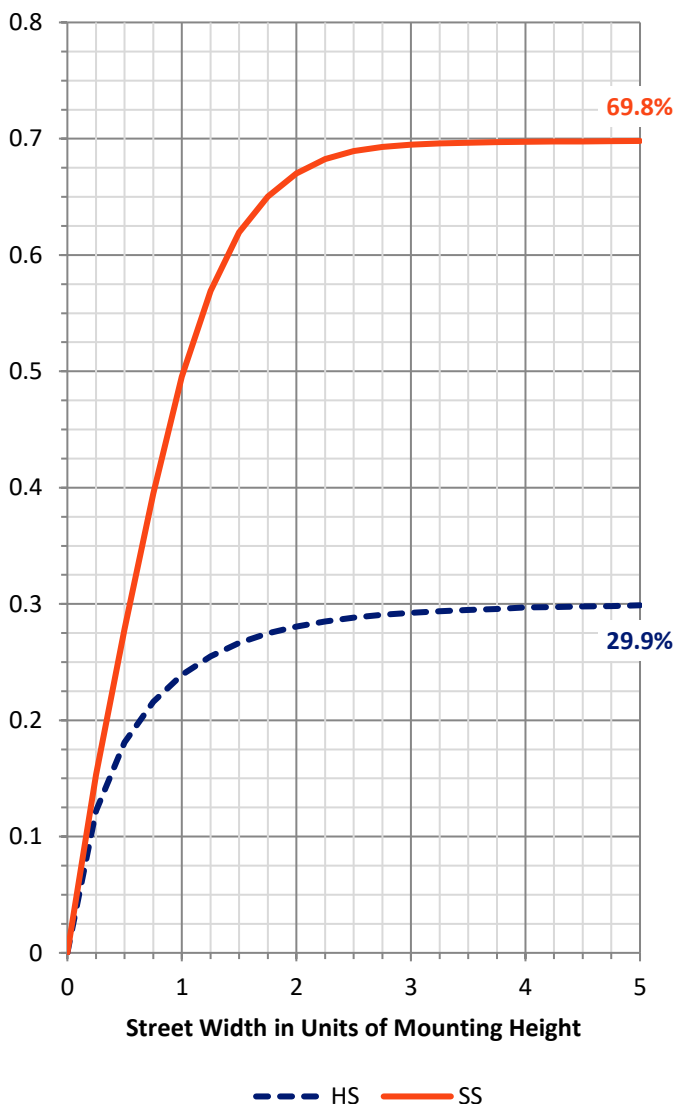
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2160.6	0.0	2160.6
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	5006.5	0.0	5006.5
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	7167.0	0.0	7167.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.7	3.4
10°-20°	526.1	7.3
20°-30°	794.8	11.1
30°-40°	1148.6	16.0
40°-50°	1528.5	21.3
50°-60°	1709.7	23.9
60°-70°	963.6	13.4
70°-80°	214.8	3.0
80°-90°	38.2	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°	7167.0	100.0
0°-180°	7167.0	100.0

**Coefficient of Utilization**



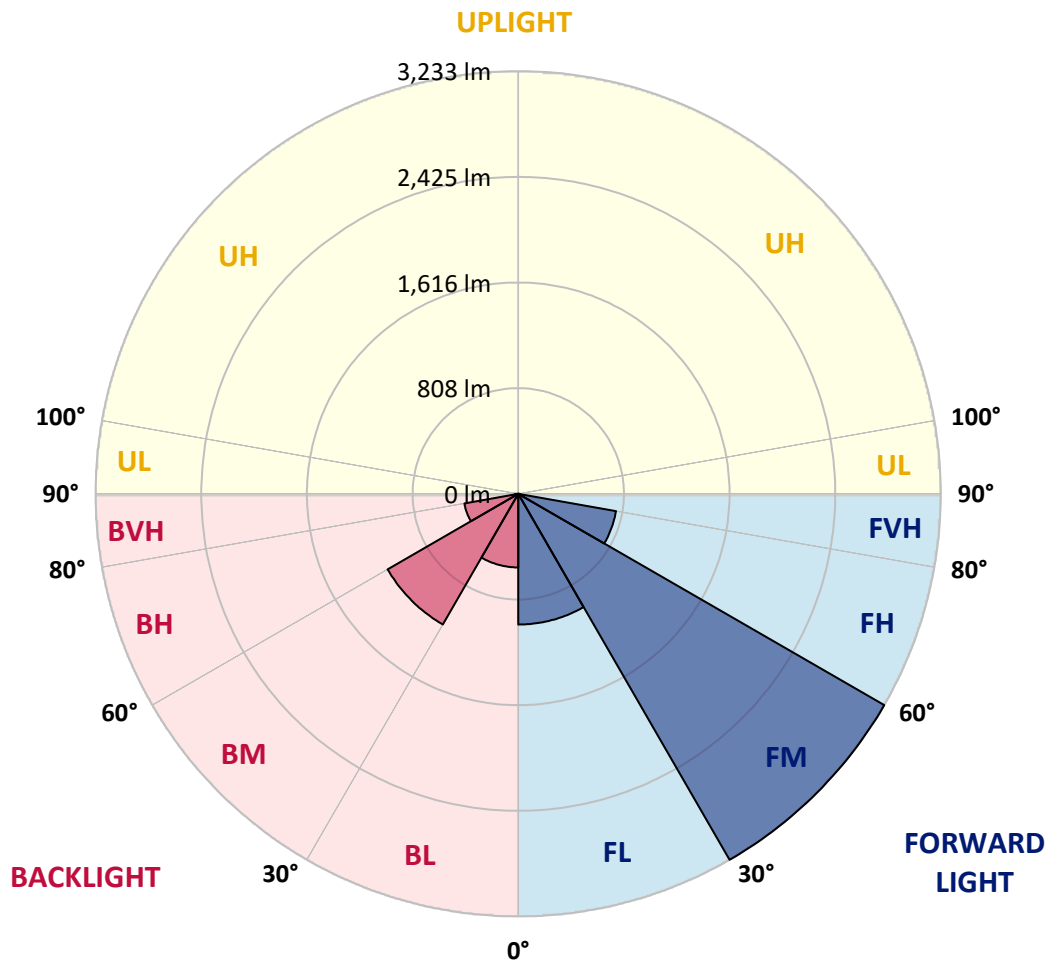
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.1	14.0			
FM (30°-60°)	3232.9	45.1			
FH (60°-80°)	759.6	10.6			G1/1800
FVH (80°-90°)	13.8	0.2			G1/100
BL (0°-30°)	563.4	7.9	B2/1000		
BM (30°-60°)	1154.0	16.1	B2/2500		
BH (60°-80°)	418.8	5.8	B1/500		G1/500
BVH (80°-90°)	24.4	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7
2.5°	3233.7	3285.7	3229.6	3129.9	3059.2	2994.8	2927.3	2913.8	2825.5	2809.9	2745.5
5°	3049.9	3038.4	2969.9	2839.0	2694.6	2563.7	2467.1	2373.6	2310.2	2236.5	2231.3
7.5°	2826.5	2760.1	2720.6	2522.2	2343.5	2137.8	2049.5	1907.2	1862.6	1796.0	1761.8
10°	2627.1	2578.3	2485.8	2287.4	2038.1	1902.0	1807.5	1730.6	1678.6	1610.1	1523.9
12.5°	2528.4	2508.7	2404.8	2097.3	1912.4	1766.9	1700.5	1625.7	1537.4	1427.3	1384.7
15°	2546.0	2479.6	2400.6	2061.0	1805.4	1665.2	1559.2	1465.7	1352.5	1247.5	1186.3
17.5°	2678.0	2627.1	2469.2	2083.8	1764.9	1562.3	1370.2	1232.0	1130.2	1035.7	993.1
20°	2937.7	2863.9	2686.3	2112.9	1677.6	1419.0	1198.8	1028.4	919.3	869.4	855.0
22.5°	3225.4	3181.8	2898.2	2178.4	1608.1	1286.1	1016.9	846.6	806.1	792.6	819.6
25°	3575.5	3462.2	3227.5	2285.3	1554.0	1172.8	863.2	768.7	747.9	761.4	792.6
27.5°	3841.4	3811.3	3458.1	2386.1	1480.2	1036.7	777.0	714.7	720.9	734.4	763.5
30°	4157.2	4004.5	3681.5	2455.7	1413.8	943.2	716.8	700.1	706.4	729.2	743.8
32.5°	4347.3	4290.2	3821.7	2560.6	1336.9	862.2	670.0	654.5	663.8	698.0	732.3
35°	4589.3	4476.1	3995.2	2587.6	1282.9	830.0	636.8	625.4	647.1	671.0	709.5
37.5°	4871.9	4794.0	4235.1	2568.9	1253.8	796.8	608.7	603.5	619.1	652.4	697.0
40°	5039.1	5015.2	4360.8	2580.4	1208.1	767.7	576.5	582.7	614.9	640.9	684.6
42.5°	5200.2	5044.3	4546.8	2576.2	1179.0	728.2	579.6	572.4	597.3	627.4	669.0
45°	5235.5	5080.7	4590.4	2547.1	1143.7	689.8	555.7	558.8	589.0	626.4	653.4
47.5°	5212.6	5098.4	4671.4	2538.8	1110.5	662.7	520.4	557.8	575.5	605.6	644.0
50°	5197.0	5190.8	4740.0	2578.3	1065.8	620.2	477.9	544.3	562.0	592.1	633.7
52.5°	5334.1	5320.7	4911.4	2682.1	1030.5	574.5	434.2	510.1	552.6	581.7	622.3
55°	5417.3	5358.0	5205.4	2809.9	971.3	514.2	404.1	467.4	529.7	555.7	597.3
57.5°	4872.9	4832.4	4708.8	2622.9	871.5	435.2	366.7	423.9	498.6	539.2	581.7
60°	4054.4	3991.0	3674.2	2229.2	643.0	338.7	343.8	389.6	490.3	505.9	555.7
62.5°	3822.8	3665.8	3234.7	1794.0	493.4	290.8	308.5	358.4	446.7	472.6	522.5
65°	3033.2	2916.9	2314.4	1295.4	330.3	252.4	281.5	323.0	385.4	436.3	482.0
67.5°	1898.9	1787.7	1235.1	612.9	230.6	216.1	251.4	295.0	345.9	391.7	442.5
70°	992.0	870.5	570.3	221.3	158.9	176.6	209.8	251.4	301.2	338.7	378.1
72.5°	369.8	300.2	185.9	95.5	110.1	135.1	170.4	200.5	235.8	281.5	303.3
75°	57.1	48.9	47.8	58.2	74.8	97.6	121.5	151.6	182.8	211.9	226.5
77.5°	27.0	26.0	29.1	38.4	49.9	69.6	88.3	117.4	142.3	161.1	169.3
80°	17.7	16.7	18.7	26.0	37.4	52.0	70.6	90.4	113.2	128.8	126.7
82.5°	10.4	11.4	11.4	17.7	26.0	37.4	50.9	68.5	84.1	97.6	89.3
85°	6.2	5.2	5.2	10.4	17.7	30.1	42.6	29.1	30.1	30.1	34.3
87.5°	2.1	2.1	2.1	1.0	2.1	2.1	3.1	5.2	6.2	7.2	9.3
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°	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7
2.5°	2743.4	2775.6	2764.2	2723.7	2754.9	2760.1	2739.3	2811.0	2824.4	2802.6	2808.9
5°	2224.0	2232.4	2251.0	2290.5	2318.6	2351.8	2351.8	2353.9	2325.9	2396.5	2375.7
7.5°	1732.7	1737.9	1759.7	1843.8	1867.8	1931.1	1958.1	1939.4	1883.3	1859.5	1879.1
10°	1495.9	1465.7	1458.5	1468.8	1522.9	1549.9	1572.8	1566.4	1557.1	1538.4	1517.7
12.5°	1337.9	1316.2	1298.5	1273.5	1276.6	1302.6	1320.3	1305.7	1309.9	1314.1	1320.3
15°	1166.6	1151.0	1141.7	1104.2	1100.1	1117.8	1124.0	1132.2	1147.9	1148.9	1141.7
17.5°	984.7	971.3	992.0	1012.8	998.3	999.3	1010.7	1018.0	1013.8	995.2	985.8
20°	860.1	874.6	895.4	915.2	930.7	940.1	944.3	932.8	919.3	880.9	879.9
22.5°	823.8	842.4	860.1	890.2	904.7	928.6	906.9	880.9	862.2	843.5	821.7
25°	796.8	812.3	847.6	859.1	887.1	906.9	891.3	865.3	833.1	806.1	789.4
27.5°	777.0	794.7	817.5	848.7	870.5	882.0	866.3	856.0	822.8	790.5	766.7
30°	764.6	783.2	824.8	850.8	869.4	878.8	851.8	839.3	815.4	788.4	767.7
32.5°	756.2	772.9	808.2	841.4	853.9	853.9	858.1	843.5	810.2	764.6	746.9
35°	729.2	752.1	781.2	819.6	842.4	856.0	835.2	818.5	796.8	750.0	717.8
37.5°	713.7	729.2	766.7	803.0	822.8	837.3	829.0	799.9	770.8	732.3	706.4
40°	697.0	721.9	755.2	789.4	811.3	825.9	819.6	785.3	750.0	713.7	696.0
42.5°	685.6	702.2	736.5	774.9	800.9	829.0	810.2	767.7	742.8	692.9	673.1
45°	676.2	703.2	739.6	755.2	782.2	811.3	778.0	752.1	723.0	686.7	670.0
47.5°	664.8	689.8	713.7	755.2	767.7	781.2	774.9	733.4	708.5	669.0	657.6
50°	660.7	670.0	713.7	736.5	754.1	767.7	751.0	719.9	696.0	655.5	630.6
52.5°	644.0	661.7	689.8	719.9	741.7	758.3	731.3	711.6	679.4	636.8	621.2
55°	623.3	633.7	683.5	714.7	726.1	737.6	727.1	694.9	661.7	618.1	602.5
57.5°	596.3	620.2	660.7	704.3	718.8	725.1	708.5	682.5	640.9	602.5	577.6
60°	568.2	593.2	637.8	673.1	687.7	710.6	685.6	670.0	622.3	579.6	552.6
62.5°	540.2	568.2	601.5	646.1	658.6	667.9	661.7	639.9	601.5	553.7	520.4
65°	507.0	527.7	569.3	592.1	600.4	622.3	600.4	592.1	557.8	512.1	484.1
67.5°	457.1	474.7	511.1	532.9	539.2	548.5	547.4	538.1	499.6	468.5	443.5
70°	399.9	415.5	438.3	464.3	467.4	478.9	468.5	466.4	441.5	398.9	385.4
72.5°	321.0	335.6	365.7	377.1	378.1	382.2	377.1	369.8	363.6	318.9	305.4
75°	246.2	254.5	269.0	279.5	279.5	284.6	281.5	274.3	257.6	229.6	216.1
77.5°	171.4	179.7	198.4	204.6	203.6	205.7	196.3	189.1	164.2	149.6	138.2
80°	124.6	129.9	139.2	143.4	144.4	147.5	136.1	129.9	115.3	98.6	93.5
82.5°	90.4	93.5	94.5	99.7	99.7	94.5	91.4	85.2	74.8	64.4	60.2
85°	37.4	38.4	39.4	45.7	46.8	56.1	52.0	48.9	42.6	36.3	33.2
87.5°	9.3	10.4	13.5	11.4	13.5	13.5	14.5	16.7	16.7	13.5	13.5
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°	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7
2.5°	2832.7	2841.1	2947.0	2960.6	3012.5	3065.4	3172.4	3249.3	3311.6	3352.1	3363.6
5°	2397.5	2450.5	2499.3	2578.3	2649.9	2751.8	2869.2	3014.6	3197.4	3290.8	3328.3
7.5°	1877.1	1939.4	2010.1	2086.9	2191.8	2374.6	2531.5	2699.8	2933.5	3030.1	3176.6
10°	1532.2	1601.8	1695.3	1754.5	1881.2	2055.7	2238.6	2432.8	2656.2	2795.4	2964.7
12.5°	1354.6	1411.7	1497.9	1622.5	1717.1	1830.4	1966.4	2211.6	2531.5	2663.4	2779.8
15°	1158.2	1221.6	1321.3	1459.5	1572.8	1707.7	1860.5	2127.4	2468.2	2671.8	2770.4
17.5°	996.2	1041.9	1146.8	1266.3	1396.1	1543.7	1762.8	2123.3	2534.6	2795.4	2956.4
20°	884.0	890.2	947.4	1049.1	1225.8	1417.9	1702.6	2102.5	2747.5	3008.3	3211.9
22.5°	813.3	807.1	808.2	894.4	1018.0	1294.3	1608.1	2173.1	2989.6	3346.9	3484.1
25°	778.0	761.4	751.0	769.8	882.0	1147.9	1536.3	2266.7	3250.4	3626.4	3794.7
27.5°	759.3	730.2	709.5	712.6	794.7	1074.1	1491.7	2307.1	3509.0	4015.9	4075.1
30°	752.1	715.7	685.6	675.2	729.2	971.3	1396.1	2376.8	3740.7	4229.9	4280.9
32.5°	726.1	681.5	652.4	643.0	664.8	880.9	1327.6	2426.6	3945.3	4462.6	4444.9
35°	696.0	658.6	622.3	604.6	620.2	822.8	1272.5	2402.7	4186.3	4643.3	4634.0
37.5°	692.9	644.0	613.9	584.8	583.8	751.0	1197.8	2425.5	4340.1	4967.5	4839.7
40°	665.8	634.7	595.3	571.3	557.8	714.7	1125.0	2371.5	4565.5	5098.4	4972.7
42.5°	666.9	620.2	585.8	557.8	544.3	661.7	1075.1	2357.0	4644.4	5311.3	5035.0
45°	650.3	604.6	575.5	542.3	535.0	621.2	1027.4	2289.5	4783.6	5321.7	4957.1
47.5°	633.7	593.2	562.0	522.5	505.9	606.6	989.9	2233.4	4710.9	5224.0	4849.0
50°	622.3	575.5	546.4	518.4	471.6	581.7	941.2	2219.9	4609.1	5092.1	4648.5
52.5°	602.5	560.9	530.8	509.0	434.2	558.8	922.4	2298.8	4733.7	4993.4	4590.4
55°	583.8	541.2	502.7	460.2	403.0	498.6	870.5	2372.5	4915.6	5220.9	4854.3
57.5°	564.1	523.5	482.0	431.1	372.9	436.3	816.5	2386.1	4574.8	4825.2	4608.1
60°	538.1	486.2	455.0	388.5	340.7	361.5	647.1	2103.5	3548.5	4029.5	4036.7
62.5°	509.0	452.9	425.9	348.0	307.5	311.7	527.7	1768.0	2878.5	3335.6	3534.0
65°	470.5	416.5	384.3	322.0	283.6	270.0	386.4	1295.4	2186.7	2706.0	2931.5
67.5°	420.7	369.8	329.3	280.5	253.5	231.6	263.8	729.2	1291.2	1816.8	1885.4
70°	367.8	324.1	281.5	241.0	210.8	195.3	193.2	323.0	617.0	977.5	1112.6
72.5°	289.8	258.7	224.4	194.3	174.5	151.6	138.2	134.0	208.8	397.9	549.5
75°	207.7	181.8	162.1	142.3	127.7	115.3	105.0	95.5	87.3	99.7	137.1
77.5°	130.9	121.5	106.0	100.8	92.4	89.3	85.2	80.0	73.8	69.6	69.6
80°	88.3	82.1	76.9	75.9	72.7	71.7	72.7	67.5	61.3	56.1	58.2
82.5°	59.2	58.2	57.1	56.1	57.1	58.2	60.2	59.2	54.0	50.9	52.0
85°	35.3	37.4	39.4	41.5	45.7	40.5	33.2	28.0	24.9	22.9	21.8
87.5°	13.5	18.7	16.7	15.6	16.7	15.6	14.5	13.5	11.4	10.4	10.4
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-SA2B-840-U-SLR-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7	3180.7
2.5°	3439.4	3460.2	3477.9	3473.7	3437.3	3388.6	3368.8	3268.0	3247.3	3233.7
5°	3486.2	3606.6	3632.6	3617.1	3522.5	3403.0	3286.7	3139.2	3053.0	3049.9
7.5°	3399.9	3548.5	3595.3	3630.5	3504.9	3297.1	3097.7	2876.4	2822.4	2826.5
10°	3180.7	3417.6	3532.9	3569.3	3424.9	3245.2	2968.8	2744.4	2629.1	2627.1
12.5°	3059.2	3245.2	3277.4	3328.3	3285.7	3103.9	2894.0	2642.7	2530.5	2528.4
15°	2951.2	3073.8	3083.1	3154.8	3177.6	3055.1	2913.8	2645.8	2555.4	2546.0
17.5°	3045.7	2960.6	2925.3	2934.6	3002.1	3046.8	3028.0	2822.4	2729.9	2678.0
20°	3109.1	2919.0	2812.0	2822.4	2902.4	3065.4	3198.4	3077.9	2931.5	2937.7
22.5°	3278.4	2925.3	2758.0	2746.5	2873.3	3163.1	3390.6	3401.0	3259.7	3225.4
25°	3531.9	2996.9	2741.3	2738.2	2859.7	3268.0	3615.0	3783.2	3638.8	3575.5
27.5°	3735.5	3109.1	2793.3	2803.6	2902.4	3353.2	3806.1	4029.5	3919.3	3841.4
30°	3914.2	3225.4	2866.0	2818.2	3016.7	3397.9	3888.2	4310.0	4221.7	4157.2
32.5°	3987.9	3390.6	2981.3	2902.4	3111.2	3451.9	4058.5	4582.1	4506.2	4347.3
35°	4112.6	3483.1	3043.7	3037.4	3276.4	3581.7	4138.6	4761.8	4730.6	4589.3
37.5°	4212.2	3576.5	3264.9	3196.3	3502.8	3799.9	4267.3	5010.1	4938.4	4871.9
40°	4289.2	3743.8	3471.6	3562.0	3781.1	3998.3	4385.7	5025.6	5232.4	5039.1
42.5°	4218.5	3893.3	3811.3	4027.4	4235.1	4224.8	4399.3	5146.2	5300.9	5200.2
45°	4200.9	4146.8	4348.4	4544.7	4592.4	4412.7	4302.6	5013.2	5280.1	5235.5
47.5°	4158.2	4396.2	4747.3	5067.2	4994.4	4538.5	4187.3	4989.3	5292.6	5212.6
50°	4143.7	4450.2	5042.3	5353.9	5310.2	4647.5	4133.3	4835.6	5204.3	5197.0
52.5°	4142.7	4561.3	5164.8	5509.7	5536.7	4819.9	4207.1	4913.5	5272.9	5334.1
55°	4189.4	4526.0	5149.3	5423.5	5413.1	4743.1	4215.4	4965.4	5357.0	5417.3
57.5°	3951.5	4054.4	4249.7	4466.8	4410.7	3928.6	3764.6	4590.4	4916.6	4872.9
60°	3412.4	3090.4	2870.2	2859.7	2750.7	2600.1	3081.0	4096.9	4096.9	4054.4
62.5°	2988.6	2028.7	1743.1	1662.1	1739.9	1913.4	2971.9	3984.7	3871.5	3822.8
65°	2613.6	1548.9	1260.1	1237.2	1372.3	1634.0	2687.3	3394.8	3195.3	3033.2
67.5°	1681.8	1134.3	937.0	896.5	1059.6	1199.8	1788.8	2088.0	1962.3	1898.9
70°	1084.5	738.6	521.5	489.3	552.6	739.6	1142.7	1217.4	1034.6	992.0
72.5°	513.2	318.9	182.8	150.6	169.3	282.6	451.9	486.2	404.1	369.8
75°	163.1	117.4	74.8	64.4	61.3	72.7	103.9	80.0	58.2	57.1
77.5°	72.7	69.6	59.2	49.9	43.6	36.3	30.1	24.9	26.0	27.0
80°	60.2	55.1	48.9	43.6	36.3	28.0	21.8	16.7	16.7	17.7
82.5°	53.0	47.8	42.6	36.3	31.2	22.9	16.7	11.4	10.4	10.4
85°	22.9	27.0	29.1	31.2	24.9	18.7	11.4	7.2	6.2	6.2
87.5°	9.3	8.3	7.2	6.2	5.2	5.2	4.1	3.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)