

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: P651737

Luminaire Tested: **GALN-SA2A-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651737  
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-SA2A-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 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: 6666.6 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

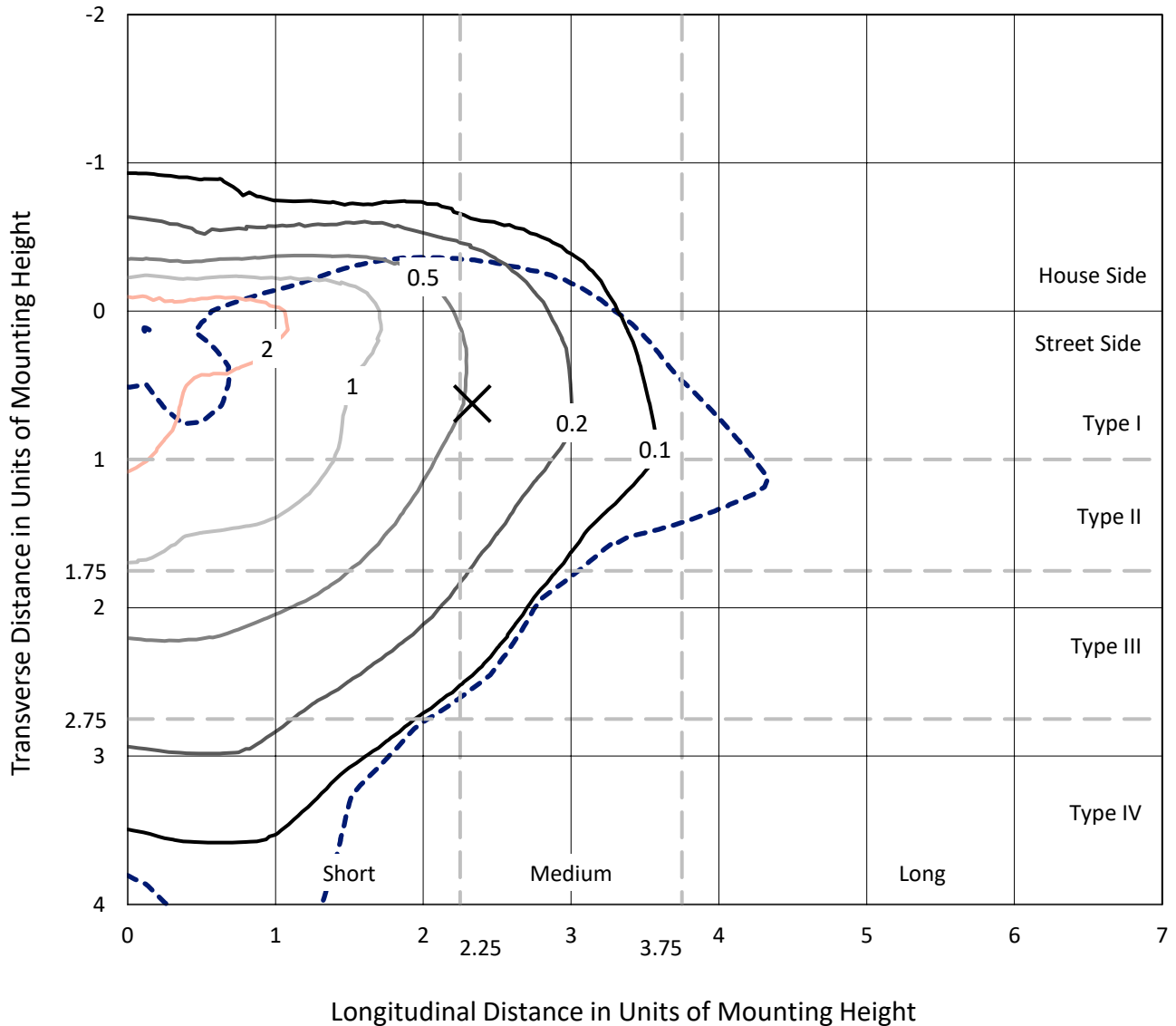
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

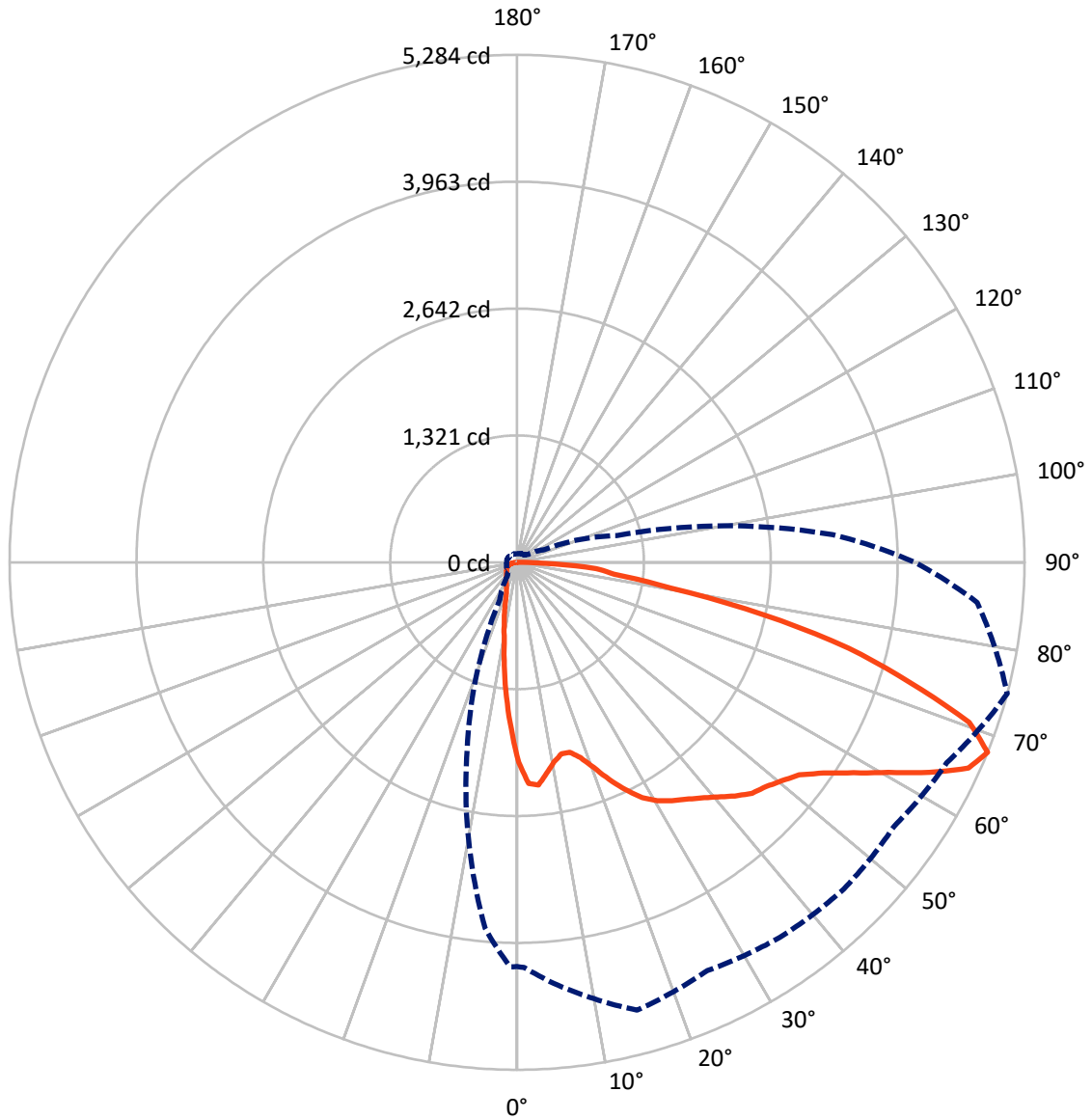
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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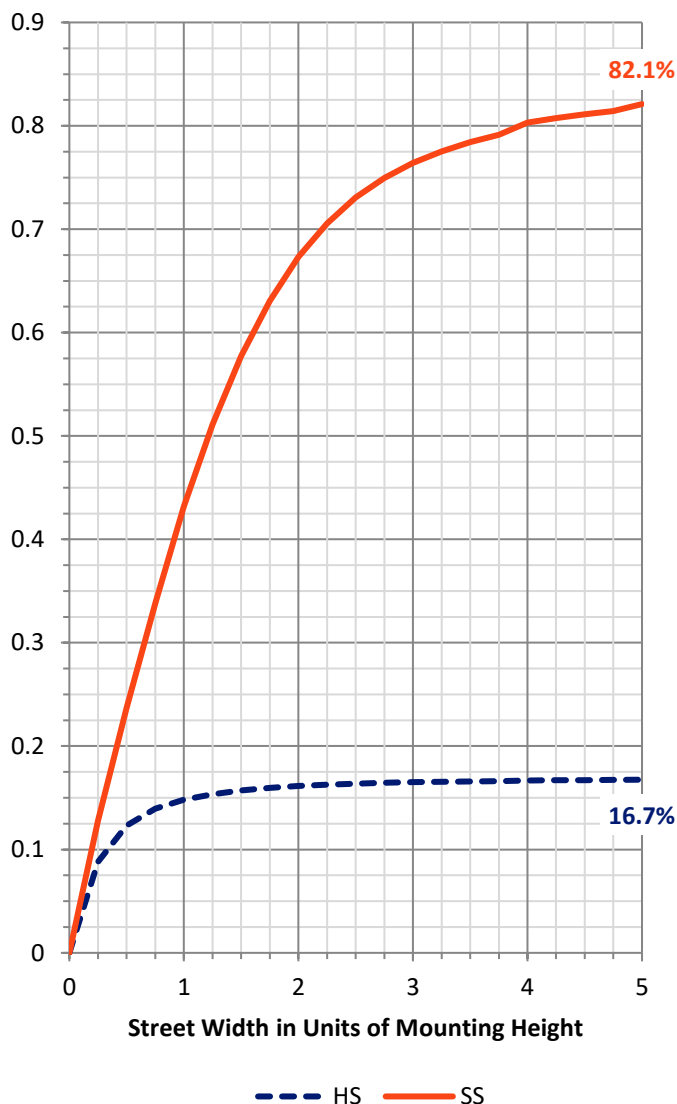
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1126.8	0.0	1126.8
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	5539.8	0.0	5539.8
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	6666.6	0.0	6666.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.0	2.4
10°-20°	329.5	4.9
20°-30°	474.1	7.1
30°-40°	682.8	10.2
40°-50°	959.2	14.4
50°-60°	1337.7	20.1
60°-70°	1590.5	23.9
70°-80°	936.7	14.1
80°-90°	198.1	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°	6666.6	100.0
0°-180°	6666.6	100.0

**Coefficient of Utilization**

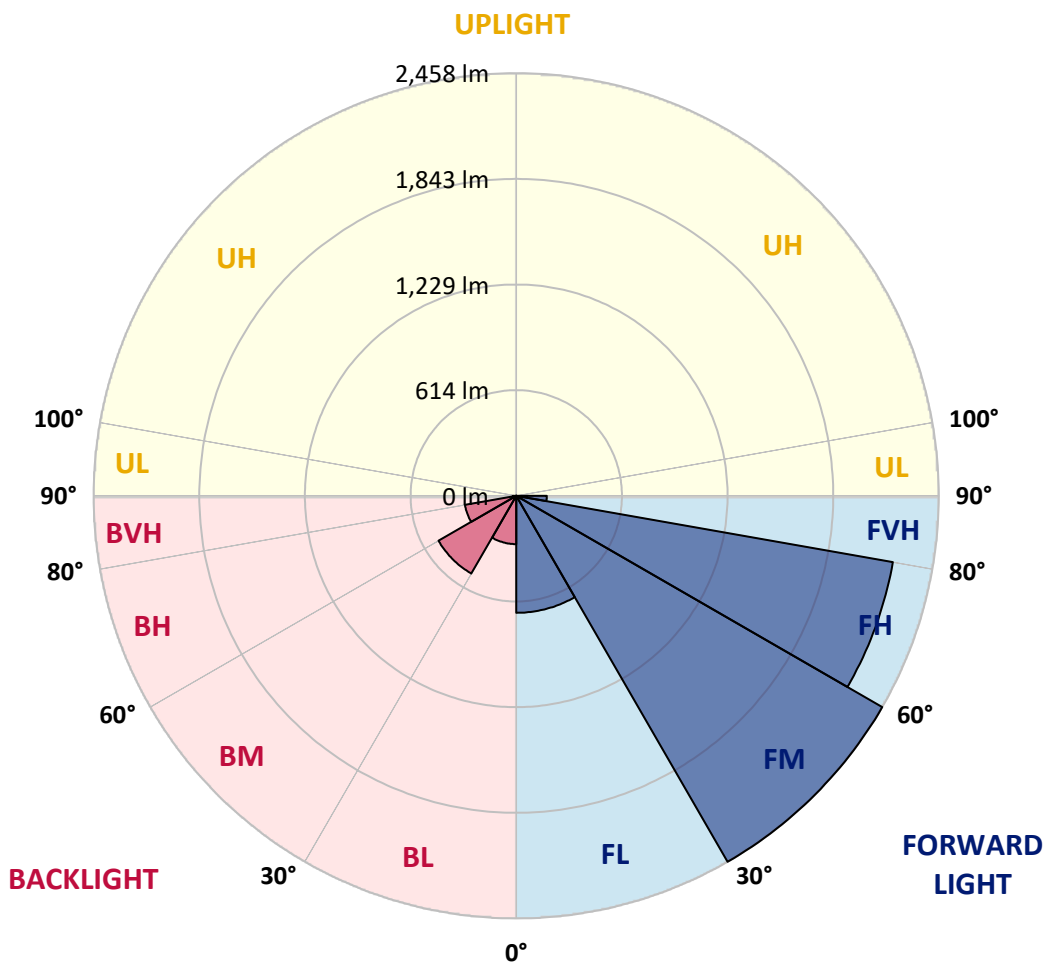


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.5	10.2			
FM (30°-60°)	2457.7	36.9			
FH (60°-80°)	2224.0	33.4			G2/5000
FVH (80°-90°)	177.6	2.7			G2/225
BL (0°-30°)	281.1	4.2	B1/500		
BM (30°-60°)	522.1	7.8	B1/1000		
BH (60°-80°)	303.2	4.5	B1/500		G1/500
BVH (80°-90°)	20.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8
2.5°	2245.7	2248.7	2267.9	2323.9	2362.4	2376.5	2386.3	2367.9	2350.0	2306.4	2240.6
5°	2238.8	2256.4	2306.4	2432.1	2531.2	2574.0	2586.8	2531.7	2440.7	2328.6	2193.9
7.5°	2108.1	2131.5	2208.5	2419.2	2594.1	2694.1	2680.9	2581.3	2417.1	2217.5	2029.3
10°	1952.9	1979.0	2071.7	2326.5	2551.8	2689.4	2689.4	2568.0	2350.0	2112.8	1896.0
12.5°	1829.8	1857.1	1963.1	2231.2	2463.7	2594.1	2615.9	2511.6	2301.6	2046.5	1808.3
15°	1789.1	1815.6	1929.8	2173.4	2370.5	2450.0	2457.3	2423.1	2278.2	2051.2	1804.5
17.5°	1839.5	1873.7	1989.2	2190.6	2285.0	2289.7	2295.3	2322.2	2280.7	2137.1	1882.3
20°	1985.3	2022.1	2142.6	2245.7	2210.2	2161.5	2164.5	2233.7	2311.1	2279.0	2068.3
22.5°	2195.7	2227.7	2351.3	2342.7	2178.5	2078.1	2057.2	2153.8	2356.0	2456.1	2266.2
25°	2422.7	2460.3	2602.2	2486.8	2187.5	2028.5	2015.3	2106.7	2402.6	2621.5	2494.9
27.5°	2682.6	2719.4	2831.4	2632.2	2234.5	2024.6	2008.8	2102.5	2444.5	2774.5	2713.4
30°	2875.8	2909.6	2985.7	2754.4	2292.3	2050.3	2030.7	2136.2	2480.4	2879.2	2926.3
32.5°	3027.6	3062.7	3104.1	2830.6	2368.3	2096.9	2060.5	2197.8	2527.4	2959.2	3084.0
35°	3185.8	3227.3	3224.2	2898.1	2439.3	2150.8	2115.3	2286.8	2601.4	3028.9	3284.1
37.5°	3386.3	3402.9	3381.6	2958.7	2524.4	2247.8	2228.1	2418.8	2706.5	3113.1	3517.9
40°	3589.7	3623.1	3513.3	3032.3	2627.9	2430.4	2428.2	2614.2	2831.4	3211.9	3744.6
42.5°	3764.1	3792.4	3636.4	3096.4	2753.1	2653.1	2669.3	2876.2	2995.1	3326.4	3926.6
45°	3895.4	3920.7	3750.1	3158.4	2918.2	2910.4	3006.2	3157.1	3201.6	3429.4	4033.5
47.5°	4007.0	4031.3	3829.2	3252.5	3122.0	3217.8	3384.5	3450.0	3378.1	3488.5	4153.2
50°	4101.1	4108.3	3883.5	3364.5	3375.2	3594.4	3756.1	3798.4	3552.6	3573.1	4257.1
52.5°	4198.9	4189.5	3977.1	3505.5	3648.8	3951.9	4069.4	4113.4	3719.7	3677.4	4408.4
55°	4418.3	4427.3	4187.0	3683.4	3925.4	4302.8	4457.6	4415.2	3904.8	3869.4	4600.8
57.5°	4683.4	4675.6	4482.4	3961.7	4207.1	4629.5	4744.9	4676.9	4151.9	4133.1	4795.7
60°	4786.4	4796.6	4729.5	4260.9	4485.0	4915.5	5033.5	4927.8	4448.2	4439.6	4942.8
62.5°	4682.9	4740.6	4786.0	4527.3	4721.8	5125.8	5243.0	5122.4	4757.3	4819.3	5045.8
65°	4476.8	4489.3	4643.6	4753.0	4835.9	5160.4	5221.5	5157.4	5015.5	5165.1	5041.1
67.5°	4209.2	4219.9	4400.7	4827.0	4688.9	4767.1	4809.8	4791.1	4935.6	5283.5	4809.0
70°	3954.4	3945.9	4137.0	4638.5	4081.8	3963.0	3998.5	3939.5	4258.8	4994.1	4353.7
72.5°	3458.5	3489.3	3694.5	4114.3	3232.0	3038.7	3116.1	2963.4	3275.5	4277.2	3533.8
75°	2709.1	2716.3	3058.8	3453.0	2438.1	2133.3	2238.0	2174.3	2509.0	3567.9	2440.2
77.5°	1875.9	1859.6	2227.7	2637.3	1738.7	1561.7	1563.4	1533.1	1751.9	2627.0	1657.9
80°	1191.4	1166.6	1394.5	1629.2	1194.9	1278.2	1236.4	1235.1	1140.6	1620.7	1002.5
82.5°	643.8	671.2	881.1	1021.3	857.1	987.9	905.4	878.9	782.8	1014.5	641.3
85°	293.3	318.9	469.9	694.7	651.1	658.3	439.9	519.0	647.7	823.8	342.5
87.5°	28.7	36.8	97.1	327.9	222.3	175.3	65.4	126.2	162.9	292.8	27.3
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°	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8
2.5°	2213.6	2191.4	2115.7	2053.3	1987.0	1936.6	1870.8	1826.7	1796.4	1750.6	1745.1
5°	2111.8	2057.6	1925.9	1791.7	1675.9	1588.6	1500.1	1418.9	1371.0	1356.0	1336.8
7.5°	1940.4	1848.9	1679.6	1525.7	1392.8	1262.8	1162.9	1091.9	1044.4	1016.6	983.3
10°	1799.4	1693.4	1487.3	1298.8	1189.3	1108.5	1020.5	944.4	885.8	835.8	808.5
12.5°	1704.5	1584.8	1353.1	1200.0	1115.3	1029.5	926.4	840.9	754.5	697.7	673.3
15°	1675.9	1549.3	1311.6	1150.8	1029.5	917.0	801.6	690.0	604.5	550.6	532.7
17.5°	1745.9	1592.9	1311.1	1085.4	928.5	794.3	646.4	541.7	454.0	413.9	401.0
20°	1876.8	1676.7	1315.0	1020.9	819.1	630.2	470.3	384.3	342.5	325.3	318.9
22.5°	2059.3	1804.5	1326.5	957.2	699.4	483.9	352.3	308.6	293.7	290.7	289.4
25°	2284.2	1962.6	1365.4	899.9	598.5	369.4	294.5	274.9	266.3	263.3	262.9
27.5°	2491.0	2167.0	1412.5	850.8	501.1	318.5	266.3	249.7	241.1	240.7	241.5
30°	2677.9	2338.1	1451.8	795.6	427.1	283.0	247.9	231.3	223.1	222.7	225.3
32.5°	2839.5	2478.7	1480.9	741.3	386.0	261.2	231.3	213.4	206.5	205.2	206.5
35°	3012.2	2618.9	1467.6	699.0	362.6	243.2	218.9	201.3	193.3	189.4	189.4
37.5°	3209.3	2763.4	1445.0	663.9	351.9	228.2	208.2	191.1	183.0	179.1	178.7
40°	3424.3	2907.9	1413.7	632.7	341.1	219.3	200.9	183.0	173.2	169.3	168.5
42.5°	3614.1	3031.5	1388.1	612.2	323.6	221.0	194.5	176.9	164.6	159.5	159.0
45°	3779.1	3155.9	1383.4	600.2	309.1	218.5	192.8	172.3	157.8	152.2	151.3
47.5°	3908.3	3285.4	1410.4	593.4	293.3	204.8	203.9	169.3	151.8	145.7	144.9
50°	4065.6	3469.2	1471.9	579.3	278.7	191.9	215.5	168.9	147.1	139.4	137.3
52.5°	4275.1	3708.6	1555.3	554.1	257.8	180.0	205.6	168.9	141.5	133.8	131.3
55°	4591.9	4013.8	1636.9	518.6	228.2	164.2	185.5	163.7	133.4	126.6	124.8
57.5°	4801.8	4237.0	1689.1	469.4	191.5	152.6	159.9	155.6	125.2	118.0	118.0
60°	4812.5	4296.8	1664.3	407.4	168.5	142.0	138.9	156.9	118.0	110.3	109.4
62.5°	4689.3	4150.3	1535.2	351.9	156.0	130.4	125.6	137.7	110.8	103.0	101.8
65°	4496.9	3776.2	1311.1	325.3	149.2	120.1	113.3	112.9	103.0	95.8	94.0
67.5°	4143.4	3299.9	1077.3	309.9	145.7	108.6	102.2	100.0	94.0	88.1	87.2
70°	3622.3	2763.9	864.0	303.5	144.1	96.6	91.5	88.9	83.8	79.1	78.6
72.5°	2818.1	2241.9	713.1	299.2	143.2	85.5	80.0	76.5	73.5	69.2	69.2
75°	2024.2	1649.3	544.2	269.8	132.5	73.5	67.5	65.4	61.1	57.7	58.5
77.5°	1276.1	1110.6	358.3	198.4	102.6	59.0	53.8	52.6	49.2	44.5	47.4
80°	861.9	781.0	209.1	124.8	64.6	43.1	41.5	41.0	37.2	32.0	32.5
82.5°	586.5	575.4	108.6	71.0	37.2	25.2	24.4	25.2	20.9	17.1	17.1
85°	229.2	312.9	51.3	27.8	11.9	3.9	5.6	6.0	3.4	1.7	2.1
87.5°	4.3	32.0	1.3	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°	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8
2.5°	1736.5	1732.7	1739.1	1711.8	1717.3	1727.6	1732.7	1735.7	1778.0	1768.2	1795.1
5°	1354.8	1350.9	1375.7	1379.2	1391.9	1389.4	1401.8	1404.8	1420.2	1425.7	1463.3
7.5°	985.4	1002.1	1030.3	1044.9	1066.6	1073.5	1067.1	1082.9	1050.8	1073.9	1080.8
10°	791.7	771.6	759.7	793.1	797.3	829.0	816.1	805.8	824.7	825.5	843.4
12.5°	659.2	616.0	587.4	596.8	607.0	620.7	622.8	643.4	657.1	669.9	680.6
15°	516.9	501.9	475.8	463.0	477.5	483.1	496.4	513.4	528.0	531.8	546.3
17.5°	396.7	399.3	395.0	387.3	396.3	400.6	401.4	401.8	405.7	403.2	424.5
20°	319.3	328.3	339.0	340.7	343.7	345.8	342.0	327.5	327.9	336.9	343.7
22.5°	289.0	290.7	302.7	306.5	316.0	312.1	301.0	294.1	293.3	295.4	298.8
25°	265.1	267.6	276.2	282.2	289.4	282.6	274.4	268.0	267.2	269.3	272.7
27.5°	243.6	247.5	255.2	261.2	268.0	261.6	253.9	248.3	247.9	247.5	249.7
30°	226.6	230.9	236.4	243.2	247.9	242.4	235.1	232.1	231.7	230.9	231.7
32.5°	209.5	216.3	221.9	225.3	230.0	225.7	220.2	218.5	215.5	212.9	211.6
35°	190.2	197.5	206.0	210.3	215.0	210.8	206.9	199.7	194.5	194.1	194.9
37.5°	179.1	182.1	189.0	196.2	200.9	198.8	191.5	184.3	183.0	183.0	183.8
40°	169.3	170.6	173.6	183.0	191.5	185.1	176.1	174.0	174.0	173.6	174.0
42.5°	159.5	160.7	160.7	168.0	181.7	171.4	164.6	164.6	164.6	165.0	166.3
45°	150.5	150.9	150.5	155.6	168.5	159.9	155.2	156.4	157.4	158.2	159.0
47.5°	142.8	143.2	142.8	147.1	153.5	150.0	147.5	149.2	150.9	152.2	153.1
50°	135.9	135.5	136.4	138.9	142.0	142.8	141.0	143.6	144.5	146.2	148.4
52.5°	129.9	129.5	130.4	131.7	135.9	135.9	135.9	138.1	139.8	141.5	144.5
55°	123.1	123.5	124.8	126.6	132.1	131.3	131.7	133.4	135.1	137.7	139.4
57.5°	116.7	117.6	119.3	121.9	127.4	127.0	127.4	128.3	130.4	131.7	133.4
60°	109.4	111.2	113.3	115.0	120.5	120.1	122.3	124.0	125.2	125.2	126.2
62.5°	102.2	104.7	106.9	108.2	114.1	114.5	117.6	118.8	119.7	118.8	120.1
65°	94.9	98.7	99.6	101.3	107.3	107.7	111.2	114.1	113.3	112.4	114.5
67.5°	87.6	92.3	91.9	94.0	100.0	100.9	103.9	109.0	107.3	106.5	108.2
70°	79.5	82.9	83.3	84.6	92.8	91.5	96.2	100.9	99.6	100.0	100.0
72.5°	70.6	73.5	73.5	76.1	84.6	82.5	86.4	91.5	91.5	91.1	91.1
75°	59.9	61.6	63.2	67.1	76.1	73.5	76.1	80.8	81.7	80.8	80.8
77.5°	48.3	50.9	51.7	56.9	63.2	62.8	65.4	67.5	69.2	68.4	68.4
80°	34.2	36.8	40.2	45.8	49.6	50.9	52.1	53.8	54.7	54.7	55.6
82.5°	19.3	23.0	26.1	31.6	33.3	39.8	39.4	40.6	39.4	34.6	38.4
85°	4.3	8.2	11.5	14.5	16.7	23.0	24.4	27.3	22.6	20.9	20.9
87.5°	0.0	0.0	0.0	0.0	0.0	3.4	6.8	9.4	8.2	6.8	6.8
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-SA2A-840-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8	2082.8
2.5°	1817.7	1854.9	1899.8	1977.2	2031.5	2090.1	2149.1	2211.9	2228.6	2245.7
5°	1473.6	1546.7	1586.5	1690.3	1799.4	1937.9	2051.2	2175.2	2226.9	2238.8
7.5°	1116.2	1165.8	1270.1	1375.3	1510.4	1655.8	1829.3	2022.5	2082.8	2108.1
10°	884.9	952.5	1043.9	1156.8	1275.2	1431.7	1627.5	1853.2	1938.8	1952.9
12.5°	753.3	828.5	928.1	1047.4	1159.4	1277.4	1474.9	1707.9	1799.4	1829.8
15°	602.3	693.4	808.5	934.1	1056.0	1185.1	1385.1	1648.0	1753.7	1789.1
17.5°	473.2	546.8	671.2	807.5	952.1	1115.3	1366.3	1676.7	1806.6	1839.5
20°	362.1	414.7	519.4	663.5	832.8	1046.5	1371.0	1784.9	1940.4	1985.3
22.5°	312.9	339.8	403.6	540.8	730.2	986.7	1390.3	1933.2	2120.8	2195.7
25°	283.4	297.5	333.5	423.2	632.3	928.5	1434.2	2132.9	2373.0	2422.7
27.5°	258.2	268.4	290.7	355.2	543.4	874.6	1485.5	2354.3	2608.6	2682.6
30°	234.3	247.9	268.9	315.5	486.5	825.5	1550.1	2533.8	2807.0	2875.8
32.5°	215.9	229.6	248.8	287.7	438.2	773.8	1588.6	2691.5	2969.0	3027.6
35°	200.9	212.4	232.5	265.5	401.4	734.4	1580.9	2816.8	3125.9	3185.8
37.5°	190.2	200.1	220.2	244.6	373.7	693.4	1577.0	2982.3	3317.0	3386.3
40°	180.4	190.7	209.1	230.9	345.8	645.1	1579.2	3146.4	3520.5	3589.7
42.5°	172.7	184.3	199.2	227.0	317.2	606.2	1579.2	3289.2	3697.5	3764.1
45°	166.3	178.7	193.3	226.6	294.5	576.7	1568.5	3411.9	3838.6	3895.4
47.5°	160.7	174.4	195.4	218.9	289.0	555.3	1559.1	3510.2	3953.5	4007.0
50°	156.9	173.2	207.7	209.9	290.7	548.9	1604.5	3634.2	4054.9	4101.1
52.5°	153.9	173.6	207.3	196.6	287.7	553.2	1698.9	3827.9	4195.5	4198.9
55°	147.9	173.2	196.6	181.7	275.3	560.4	1820.3	4109.2	4415.7	4418.3
57.5°	142.0	168.5	182.6	168.9	250.1	560.4	1966.5	4375.6	4681.2	4683.4
60°	135.9	175.3	160.3	157.8	217.1	550.2	2120.8	4492.6	4764.5	4786.4
62.5°	129.9	176.5	143.2	147.9	193.3	525.4	2235.9	4363.1	4651.7	4682.9
65°	123.1	142.4	132.1	137.7	180.8	483.9	2199.6	4125.9	4439.6	4476.8
67.5°	115.0	120.5	120.1	127.0	176.5	422.8	2008.0	3825.7	4211.4	4209.2
70°	105.1	108.2	109.4	116.7	168.5	375.3	1673.3	3436.3	3906.5	3954.4
72.5°	94.9	97.5	98.7	105.1	160.3	348.4	1298.8	2899.8	3383.7	3458.5
75°	83.8	85.5	87.2	92.8	151.8	308.6	925.1	2213.6	2591.5	2709.1
77.5°	72.2	72.2	74.3	80.0	127.8	254.8	620.7	1552.7	1755.8	1875.9
80°	58.5	59.0	58.1	64.1	94.0	174.4	352.7	1037.1	1168.4	1191.4
82.5°	44.9	43.6	44.1	47.0	70.1	118.8	188.1	644.3	656.7	643.8
85°	28.2	28.2	27.3	30.8	44.9	62.0	102.6	394.6	308.2	293.3
87.5°	11.5	9.4	10.7	12.4	21.4	25.2	40.2	81.2	31.2	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)