

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: P652231

Luminaire Tested: **GALN-SA2B-840-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6911.4 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

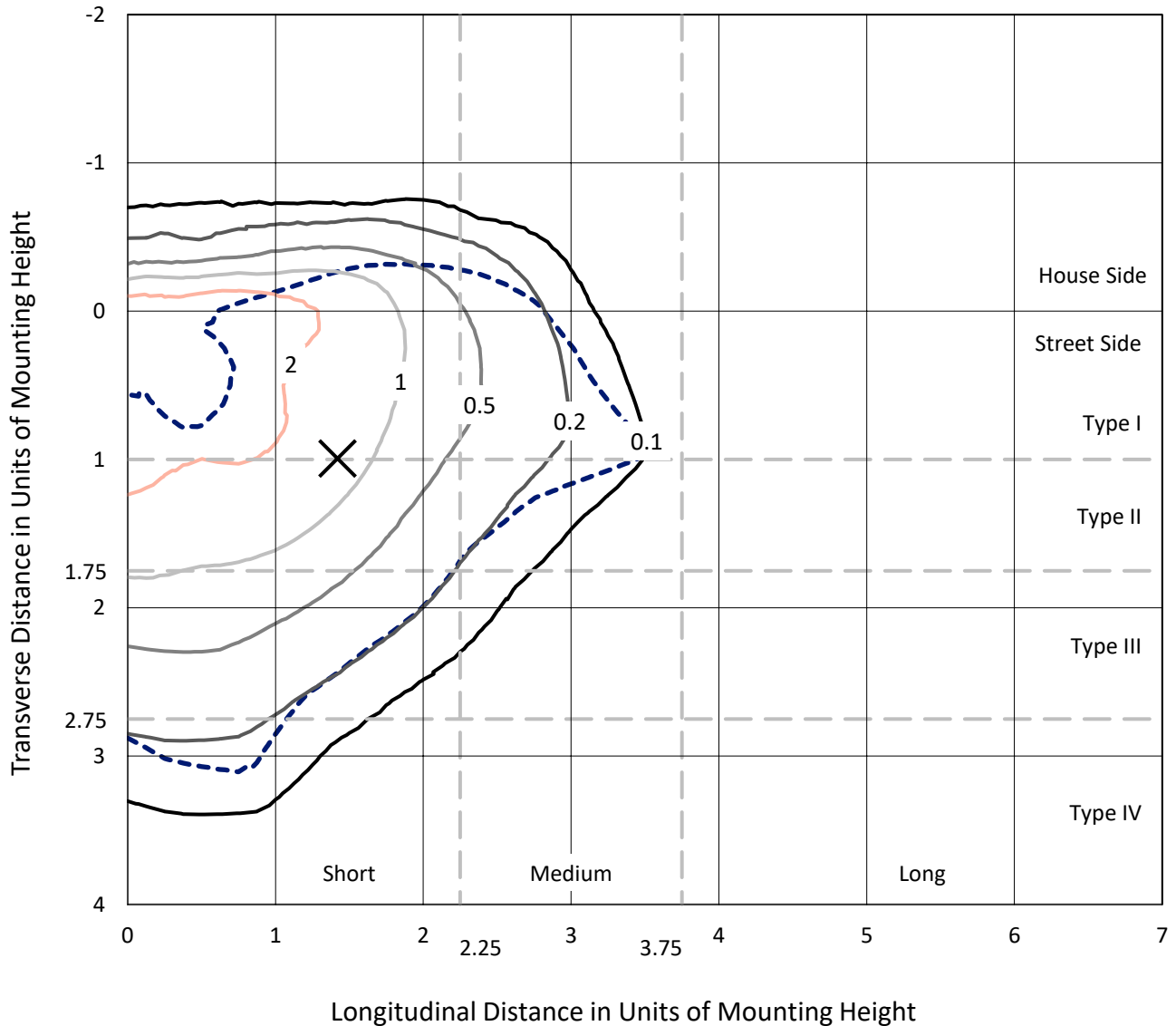
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

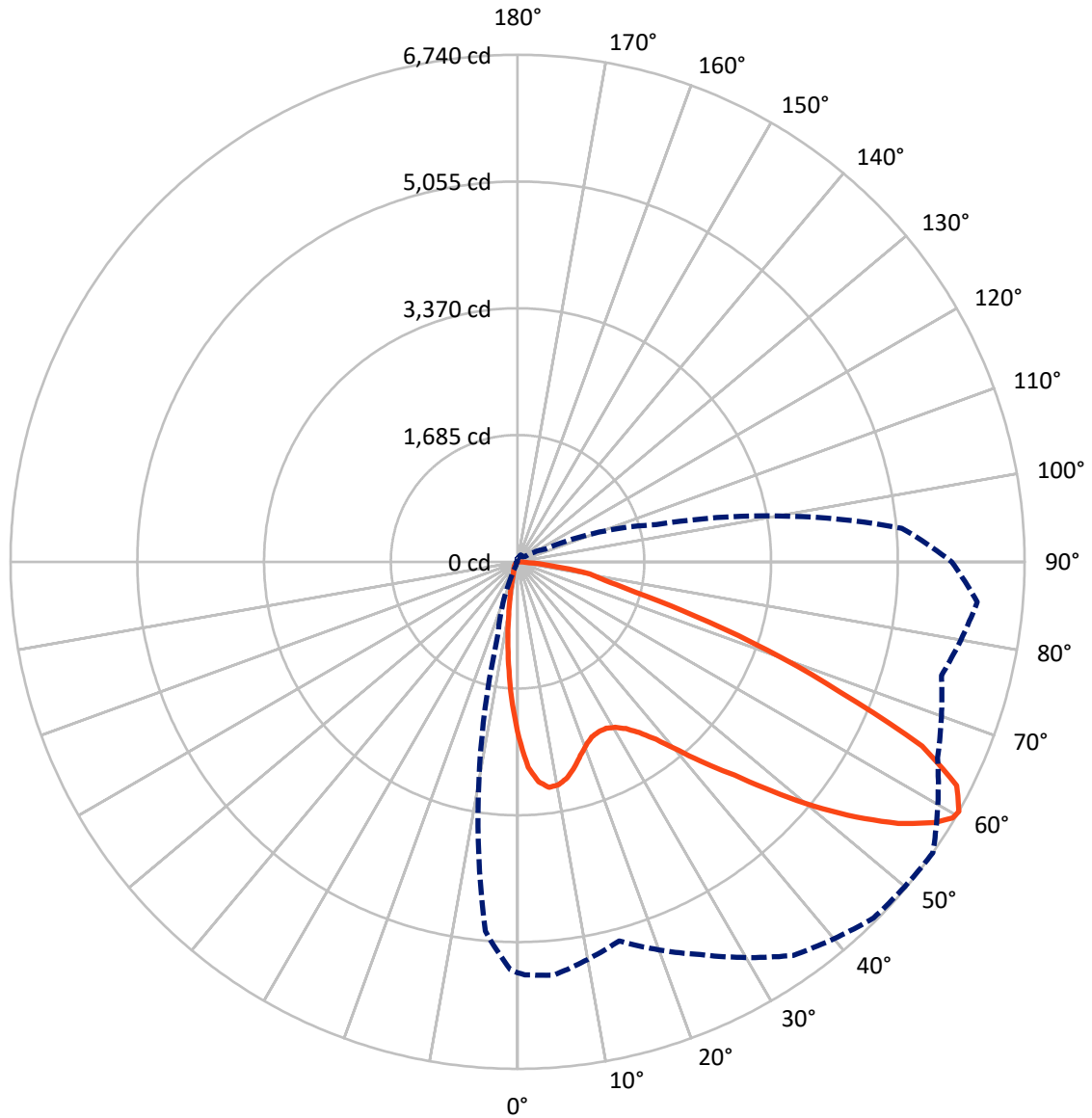
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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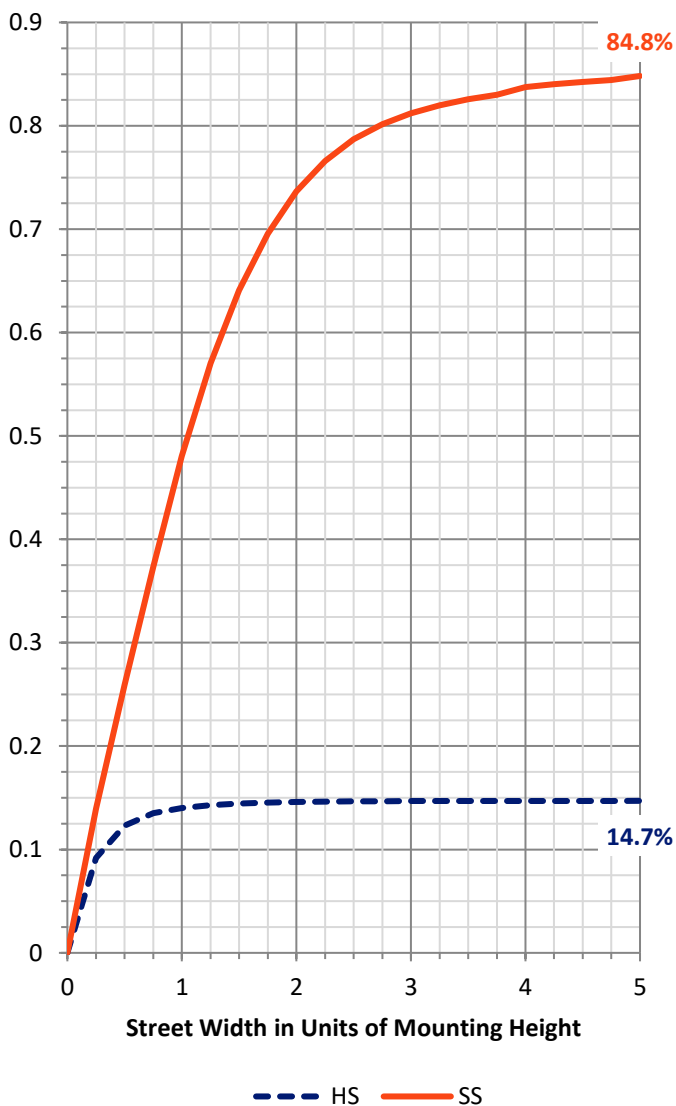
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1025.7	0.0	1025.7
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	5885.6	0.0	5885.6
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	6911.4	0.0	6911.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	2.5
10°-20°	341.3	4.9
20°-30°	505.1	7.3
30°-40°	752.9	10.9
40°-50°	1102.7	16.0
50°-60°	1591.9	23.0
60°-70°	1674.6	24.2
70°-80°	688.9	10.0
80°-90°	80.7	1.2
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°	6911.4	100.0
0°-180°	6911.4	100.0

**Coefficient of Utilization**



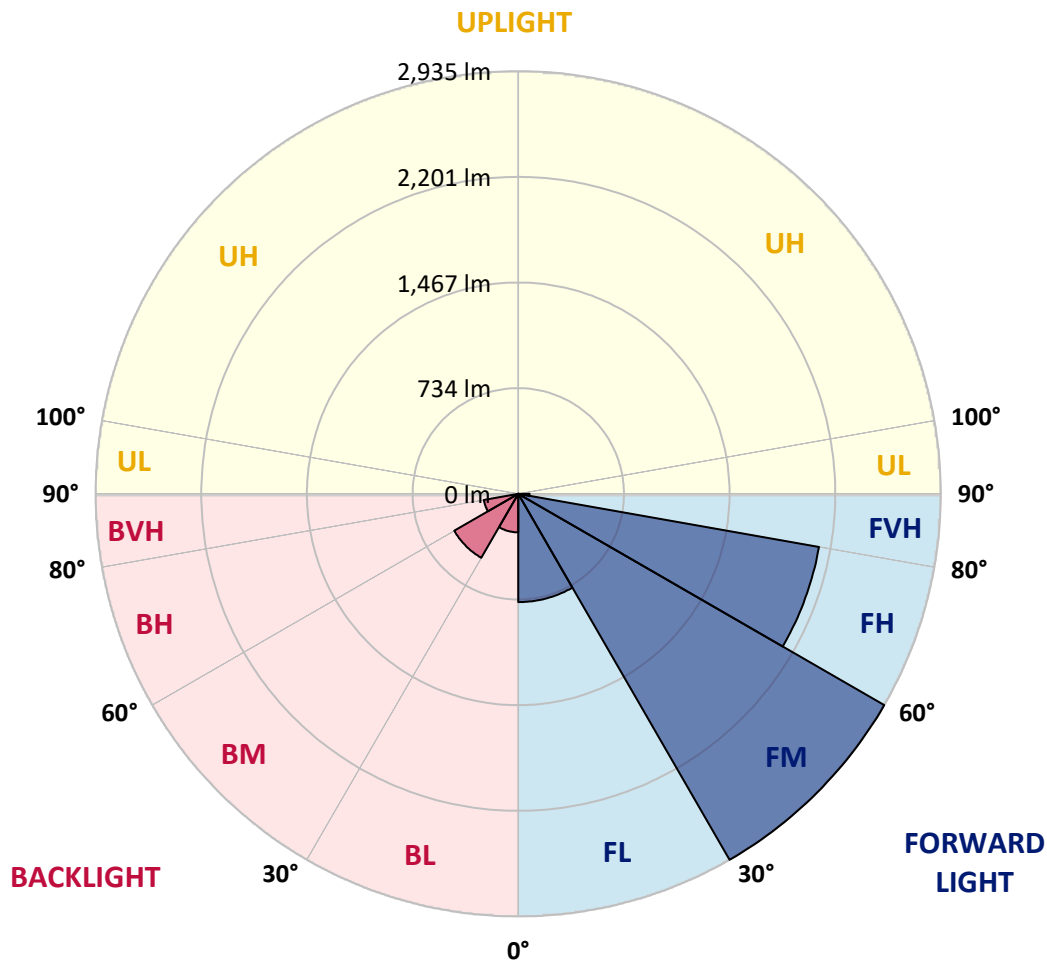
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.1	10.9			
FM (30°-60°)	2934.6	42.5			
FH (60°-80°)	2120.7	30.7			G2/5000
FVH (80°-90°)	78.3	1.1			G1/100
BL (0°-30°)	267.6	3.9	B1/500		
BM (30°-60°)	512.9	7.4	B1/1000		
BH (60°-80°)	242.8	3.5	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2
2.5°	2556.6	2552.4	2590.2	2651.9	2714.2	2746.6	2740.2	2737.5	2686.0	2648.1	2568.9
5°	2551.3	2573.1	2640.7	2807.8	2934.4	2995.6	3013.6	2937.5	2837.0	2691.3	2511.5
7.5°	2398.7	2425.8	2536.0	2797.2	3022.1	3155.2	3150.4	3028.5	2821.1	2595.5	2339.1
10°	2209.3	2241.2	2370.4	2687.5	2979.6	3155.2	3164.7	3010.4	2752.4	2463.0	2193.3
12.5°	2075.8	2113.5	2256.7	2585.4	2870.0	3042.9	3054.1	2942.3	2700.9	2412.0	2114.1
15°	2030.5	2066.2	2211.4	2533.8	2753.5	2846.6	2843.9	2832.2	2680.6	2424.2	2118.3
17.5°	2108.2	2137.5	2301.3	2557.2	2644.4	2634.9	2648.7	2705.1	2684.9	2526.9	2252.4
20°	2308.8	2338.6	2514.7	2629.1	2560.9	2500.3	2506.7	2600.8	2724.3	2720.0	2461.9
22.5°	2584.9	2635.4	2795.0	2768.4	2549.7	2416.8	2403.5	2525.9	2791.3	2942.3	2745.0
25°	2934.4	2985.5	3109.9	2990.8	2604.6	2397.1	2384.8	2503.0	2872.7	3159.4	3063.7
27.5°	3228.0	3266.9	3390.8	3207.3	2685.4	2405.6	2385.4	2506.1	2938.6	3344.0	3332.3
30°	3463.2	3491.9	3564.7	3308.3	2755.1	2442.9	2419.4	2552.9	2967.9	3433.9	3549.9
32.5°	3652.5	3701.0	3723.9	3416.3	2855.1	2513.1	2473.1	2642.8	3039.2	3545.1	3778.1
35°	3869.0	3924.9	3895.7	3519.6	2987.1	2622.7	2573.7	2788.6	3147.2	3647.8	4043.0
37.5°	4143.5	4207.9	4093.6	3628.1	3126.4	2787.6	2764.7	2993.5	3311.0	3794.6	4327.1
40°	4427.6	4464.9	4285.6	3760.0	3297.7	3027.4	3049.3	3297.7	3525.4	3970.7	4629.3
42.5°	4649.5	4684.5	4483.0	3870.6	3472.7	3312.1	3403.0	3664.7	3771.2	4151.0	4854.8
45°	4819.2	4849.0	4619.7	3991.4	3708.9	3724.4	3896.2	4043.0	4017.5	4261.1	5028.8
47.5°	4951.1	4976.6	4725.0	4121.2	4062.7	4228.6	4491.4	4553.7	4272.9	4380.3	5186.2
50°	5005.4	5012.8	4758.0	4286.7	4464.4	4871.3	5145.2	5107.5	4565.5	4512.7	5353.8
52.5°	5076.1	5074.5	4852.1	4444.1	4842.1	5445.8	5719.3	5633.6	4896.3	4711.2	5542.1
55°	5261.8	5263.9	5053.7	4667.6	5163.9	5909.7	6202.3	6140.1	5245.3	5046.3	5761.9
57.5°	5487.4	5495.3	5340.5	4928.8	5471.4	6245.9	6563.0	6539.0	5717.1	5419.2	5969.3
59°	5516.6	5532.5	5476.2	5112.8	5653.9	6349.1	6686.4	6709.8	5969.8	5665.0	6081.5
60°	5463.4	5490.0	5515.5	5217.1	5760.8	6386.4	6693.9	6739.6	6159.7	5832.1	6132.6
62.5°	5231.4	5273.5	5401.7	5537.9	5894.3	6270.4	6456.0	6551.8	6394.9	6270.9	6137.4
65°	4927.7	4949.5	5134.6	5594.8	5635.2	5728.8	5786.3	5909.2	6112.4	6440.1	5917.7
67.5°	4429.8	4494.1	4720.8	5264.4	4870.7	4760.1	4745.8	4623.4	5151.1	6036.9	5376.2
70°	3659.4	3688.2	3967.5	4315.9	3675.9	3505.7	3573.8	3528.1	3993.0	5196.9	4327.1
72.5°	2767.3	2832.2	3105.1	3440.3	2501.4	2280.5	2468.3	2451.3	2999.3	4176.6	2972.7
75°	1968.9	2010.8	2358.8	2692.3	1751.8	1484.2	1551.8	1615.1	2093.8	3297.7	1756.6
77.5°	1352.8	1389.0	1650.2	1780.5	1277.8	1224.1	1119.8	1181.0	1371.9	1956.6	956.0
80°	816.0	814.4	986.2	1018.2	890.0	1033.6	867.2	973.5	829.3	837.3	370.3
82.5°	529.8	524.5	603.2	657.5	495.3	520.8	349.5	503.8	540.5	233.5	117.1
85°	237.2	247.3	289.9	382.5	217.1	115.5	71.3	154.8	230.3	117.6	0.0
87.5°	24.5	19.2	51.0	93.1	29.8	3.2	10.7	5.3	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°	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2
2.5°	2532.2	2501.4	2409.3	2323.2	2249.2	2158.8	2100.2	2008.2	1952.4	1935.3	1938.0
5°	2430.6	2341.8	2166.8	2026.8	1871.0	1782.1	1647.0	1517.2	1446.9	1420.9	1409.2
7.5°	2217.8	2122.6	1911.4	1691.7	1524.6	1368.8	1268.2	1153.9	1075.6	1011.3	1000.1
10°	2059.8	1934.8	1673.1	1436.8	1304.9	1187.9	1087.3	973.0	880.9	807.5	787.3
12.5°	1965.1	1825.2	1533.1	1335.3	1210.3	1090.0	959.2	826.7	732.5	653.3	616.5
15°	1948.1	1785.9	1493.8	1262.3	1108.1	962.9	788.9	645.8	549.0	474.0	451.1
17.5°	2050.8	1856.6	1487.9	1186.3	974.6	768.7	587.9	469.2	360.1	318.2	301.7
20°	2233.8	1981.6	1487.4	1098.0	837.3	592.1	412.8	305.9	261.7	241.5	231.9
22.5°	2483.2	2151.9	1515.6	1021.9	694.8	436.7	294.7	243.6	218.1	201.6	197.9
25°	2788.1	2404.0	1584.8	970.3	585.7	342.6	243.1	208.6	187.3	179.8	176.6
27.5°	3058.9	2645.5	1660.8	917.1	507.5	303.3	225.6	191.0	173.9	168.1	163.3
30°	3292.4	2864.7	1697.6	846.9	444.7	277.7	228.8	204.3	181.9	164.4	156.4
32.5°	3487.1	3032.8	1721.4	783.1	391.6	227.2	180.9	158.0	147.8	141.5	136.2
35°	3730.8	3214.7	1707.1	746.9	364.4	207.0	164.9	136.2	119.2	106.4	101.1
37.5°	3986.1	3396.6	1682.1	717.1	352.1	192.1	156.9	129.3	110.7	97.4	90.4
40°	4250.5	3565.3	1652.8	689.5	341.0	182.5	152.1	123.5	104.8	90.4	83.0
42.5°	4492.5	3729.7	1641.1	671.4	322.9	184.1	148.4	120.8	99.0	84.0	77.7
45°	4688.3	3885.6	1657.1	661.8	303.3	181.4	149.4	117.6	94.2	79.8	73.4
47.5°	4897.4	4105.8	1708.7	652.2	284.1	168.6	157.4	117.1	92.0	77.1	70.2
50°	5140.4	4387.7	1826.8	628.8	260.7	154.8	167.6	116.5	89.4	73.9	67.0
52.5°	5464.5	4708.0	1948.6	587.9	226.6	141.5	160.1	114.9	84.0	70.2	63.3
55°	5755.5	5045.2	2051.8	539.4	183.5	122.4	144.1	108.0	75.0	63.8	57.4
57.5°	5875.6	5235.7	2048.7	472.4	146.8	107.5	118.7	99.0	65.4	56.4	51.0
59°	5831.5	5211.8	1980.1	422.9	134.1	99.5	98.4	97.9	61.1	51.0	46.8
60°	5769.3	5124.5	1906.0	398.5	126.1	94.2	90.4	96.8	57.4	47.9	43.6
62.5°	5530.9	4762.8	1660.8	356.9	115.5	79.8	72.3	81.9	51.0	41.5	37.8
65°	5185.7	4206.9	1406.0	345.2	112.3	65.9	60.1	58.5	43.6	35.1	32.0
67.5°	4512.2	3560.0	1139.0	337.2	113.3	55.3	52.6	44.2	36.2	29.3	27.2
70°	3612.7	2775.9	932.6	328.2	114.4	45.2	44.2	35.1	29.3	24.5	22.4
72.5°	2194.9	1645.4	734.1	285.1	111.2	36.2	39.4	26.6	21.3	17.6	16.5
75°	1357.0	1126.2	455.4	221.9	73.4	26.6	27.7	16.5	14.4	11.2	11.2
77.5°	786.3	711.2	162.8	79.8	32.5	16.0	12.2	8.5	8.0	4.8	4.8
80°	326.1	261.2	56.4	27.2	17.6	7.5	2.7	0.5	0.0	0.0	0.0
82.5°	95.2	84.6	15.4	12.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2
2.5°	1892.8	1875.2	1867.3	1894.4	1869.4	1901.2	1876.8	1887.5	1918.8	1932.7	1968.3
5°	1416.7	1398.6	1390.1	1431.0	1428.9	1449.1	1446.9	1465.6	1481.6	1445.9	1482.6
7.5°	986.8	974.6	994.8	1026.7	1060.8	1049.6	1049.6	1024.6	1033.1	1027.8	1026.2
10°	750.6	708.6	697.9	696.9	709.6	712.3	697.9	663.4	676.2	679.9	702.2
12.5°	590.5	558.0	508.6	486.3	480.4	485.2	437.8	407.5	421.8	413.4	435.1
15°	423.4	396.9	367.6	342.6	335.6	326.1	274.5	238.3	234.1	235.6	239.3
17.5°	302.2	284.1	284.1	257.5	243.1	214.4	188.3	172.3	170.7	172.3	175.0
20°	222.9	213.4	212.3	205.4	189.4	170.2	152.1	148.9	147.8	150.5	151.6
22.5°	192.1	181.9	173.4	172.9	158.0	142.0	133.6	129.3	129.8	130.9	133.6
25°	171.8	161.2	152.1	146.8	136.2	125.0	117.1	114.9	114.9	116.5	117.1
27.5°	157.4	144.1	136.2	128.8	119.2	109.6	102.7	101.1	100.0	101.1	103.7
30°	147.3	134.1	124.0	112.8	105.3	96.3	90.4	88.3	87.8	88.3	90.4
32.5°	126.1	118.1	110.1	100.0	91.0	85.1	78.7	75.0	75.0	76.1	78.2
35°	95.2	91.0	90.4	87.8	80.3	73.9	66.5	62.7	62.7	64.9	65.9
37.5°	84.0	76.1	75.0	73.9	70.7	62.2	55.3	52.1	51.6	53.2	55.3
40°	76.6	67.5	62.7	61.7	62.2	52.6	45.2	42.0	42.0	42.6	44.7
42.5°	70.7	60.1	51.6	50.5	52.6	44.2	36.7	33.6	33.6	33.6	36.2
45°	65.9	53.7	43.6	38.3	41.5	36.2	29.8	26.6	25.6	26.6	27.7
47.5°	62.7	48.9	38.3	30.9	30.9	28.8	24.0	20.2	19.2	19.7	21.3
50°	60.1	44.7	32.5	25.0	22.4	22.9	18.1	15.4	14.4	14.4	16.0
52.5°	55.8	40.5	28.2	21.3	17.0	15.4	13.3	11.2	10.7	11.2	12.2
55°	50.5	36.7	24.5	17.6	13.3	10.7	9.6	8.0	7.5	8.0	9.6
57.5°	44.7	30.9	19.7	13.8	9.1	6.9	6.4	5.3	4.3	4.8	5.9
59°	41.0	27.7	17.0	11.2	6.9	4.8	4.8	3.7	2.7	3.2	4.8
60°	39.4	25.6	14.4	9.6	5.9	3.7	3.7	2.7	1.6	2.1	3.7
62.5°	33.6	21.3	11.2	5.9	2.7	0.5	1.6	0.5	0.0	0.5	1.6
65°	28.2	17.0	7.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.5
67.5°	23.4	12.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	18.6	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



REPORT NUMBER: P652231  
 CATALOG NUMBER: GALN-SA2B-840-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2	2340.2
2.5°	1970.5	2046.5	2093.3	2181.6	2272.0	2341.8	2429.0	2507.2	2539.7	2556.6
5°	1519.9	1625.7	1715.6	1850.2	1975.3	2127.4	2281.6	2463.5	2533.3	2551.3
7.5°	1066.6	1174.6	1268.7	1424.7	1602.9	1806.6	2037.5	2268.3	2369.9	2398.7
10°	770.3	885.7	1000.6	1156.5	1323.1	1543.8	1784.3	2070.0	2186.9	2209.3
12.5°	486.3	610.1	796.9	989.4	1165.5	1343.2	1594.9	1905.5	2034.8	2075.8
15°	282.0	374.5	515.4	766.6	990.5	1225.7	1500.2	1843.8	1988.5	2030.5
17.5°	188.9	220.8	317.6	509.6	805.4	1117.2	1476.2	1894.4	2054.5	2108.2
20°	159.0	173.4	207.5	310.7	620.3	1020.3	1482.6	2031.6	2241.8	2308.8
22.5°	139.9	153.2	175.0	223.5	433.0	900.1	1513.0	2227.9	2499.2	2584.9
25°	123.5	136.7	155.8	185.1	291.0	761.3	1579.4	2515.2	2840.2	2934.4
27.5°	109.6	121.9	138.3	163.3	224.0	606.4	1638.5	2795.0	3151.4	3228.0
30°	96.8	106.9	122.9	142.0	186.2	467.6	1668.3	3039.7	3378.0	3463.2
32.5°	84.0	93.6	109.1	124.5	153.2	356.4	1647.5	3219.5	3598.3	3652.5
35°	71.8	81.9	94.7	109.1	132.5	287.8	1543.8	3421.7	3826.5	3869.0
37.5°	61.7	70.2	83.5	94.7	119.7	230.3	1418.3	3603.6	4082.4	4143.5
40°	52.1	60.6	73.9	84.0	110.1	181.4	1304.9	3805.8	4352.1	4427.6
42.5°	42.6	52.6	64.3	80.8	94.7	138.3	1167.6	3969.6	4554.8	4649.5
45°	34.1	45.2	57.9	80.3	82.4	105.3	1035.2	4097.3	4734.1	4819.2
47.5°	27.2	38.3	55.8	75.0	67.5	83.5	959.7	4230.8	4883.0	4951.1
50°	21.8	32.0	58.5	65.9	56.4	70.7	957.6	4379.8	4960.1	5005.4
52.5°	17.6	26.1	49.5	50.5	47.9	62.2	1015.0	4547.3	5038.9	5076.1
55°	14.9	21.8	32.5	37.3	43.1	56.4	1058.1	4805.3	5226.6	5261.8
57.5°	11.7	18.6	25.0	29.8	38.3	51.6	1063.9	5004.3	5464.5	5487.4
59°	10.1	16.0	22.4	26.6	35.1	48.4	1040.0	5016.6	5479.9	5516.6
60°	8.5	14.4	19.7	25.0	32.5	45.8	1013.9	4927.7	5422.4	5463.4
62.5°	6.4	11.2	14.4	20.2	26.6	39.4	890.5	4617.5	5202.7	5231.4
65°	4.3	8.0	10.7	14.9	20.8	34.1	725.6	4215.3	4863.3	4927.7
67.5°	2.7	5.9	8.5	11.2	17.0	28.8	517.0	3614.8	4388.3	4429.8
70°	1.6	3.7	6.4	9.1	13.3	22.9	307.0	2857.2	3650.9	3659.4
72.5°	1.1	2.7	4.3	6.4	10.7	20.8	148.9	1862.5	2665.7	2767.3
75°	0.5	1.6	2.7	4.8	8.5	17.0	71.3	1244.3	1939.6	1968.9
77.5°	0.0	0.5	1.6	3.2	6.4	13.3	41.5	817.1	1322.5	1352.8
80°	0.0	0.0	1.1	2.7	4.8	8.5	25.0	482.0	801.1	816.0
82.5°	0.0	0.0	0.5	2.1	3.2	6.4	12.8	211.8	524.5	529.8
85°	0.0	0.0	0.5	2.1	2.7	4.3	4.8	28.8	233.0	237.2
87.5°	0.0	0.0	0.5	2.7	2.7	2.7	2.7	1.6	19.7	24.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)