

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: P652394

Luminaire Tested: **GALN-SA5B-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652394  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-840-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13249.1 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

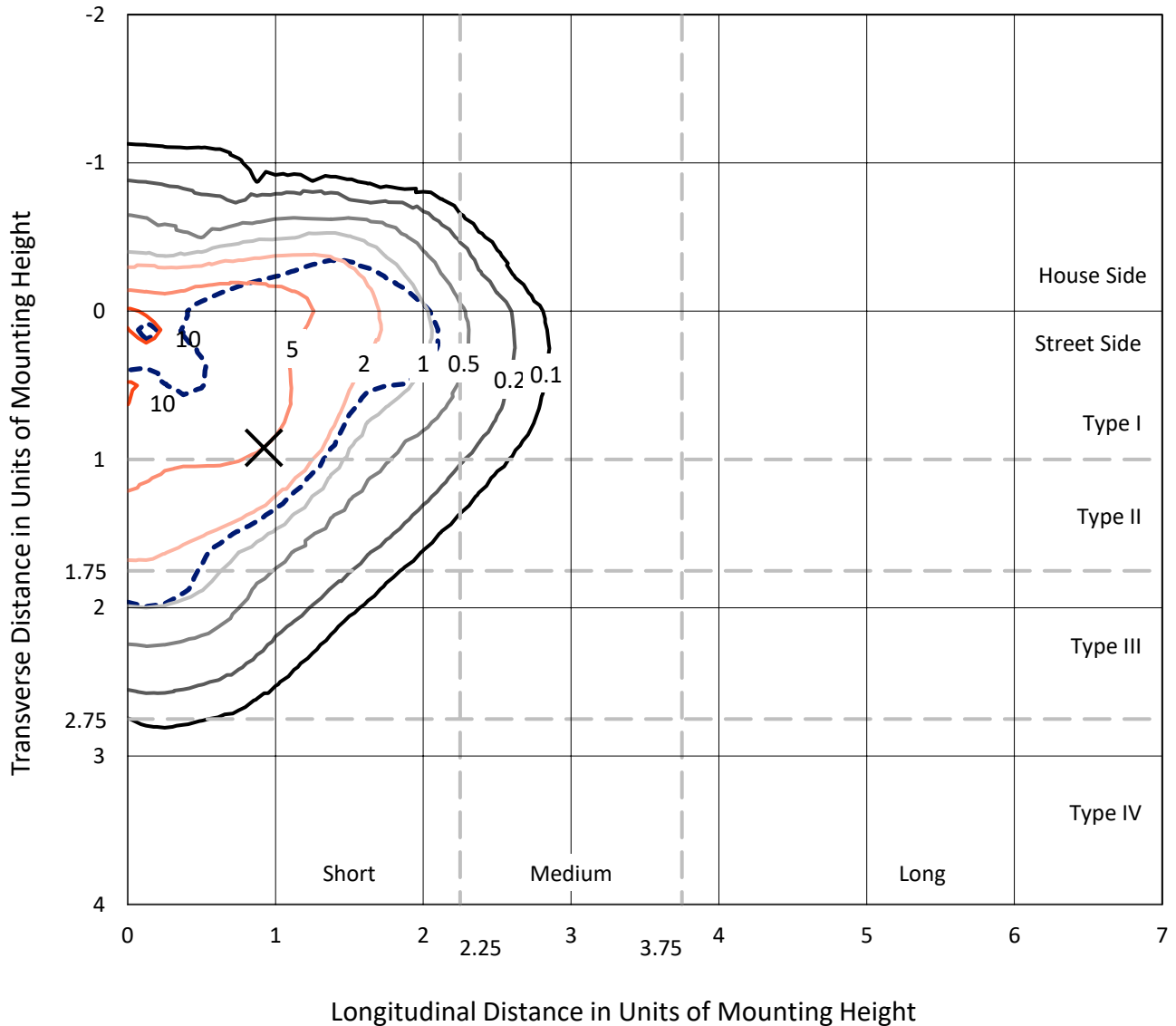
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

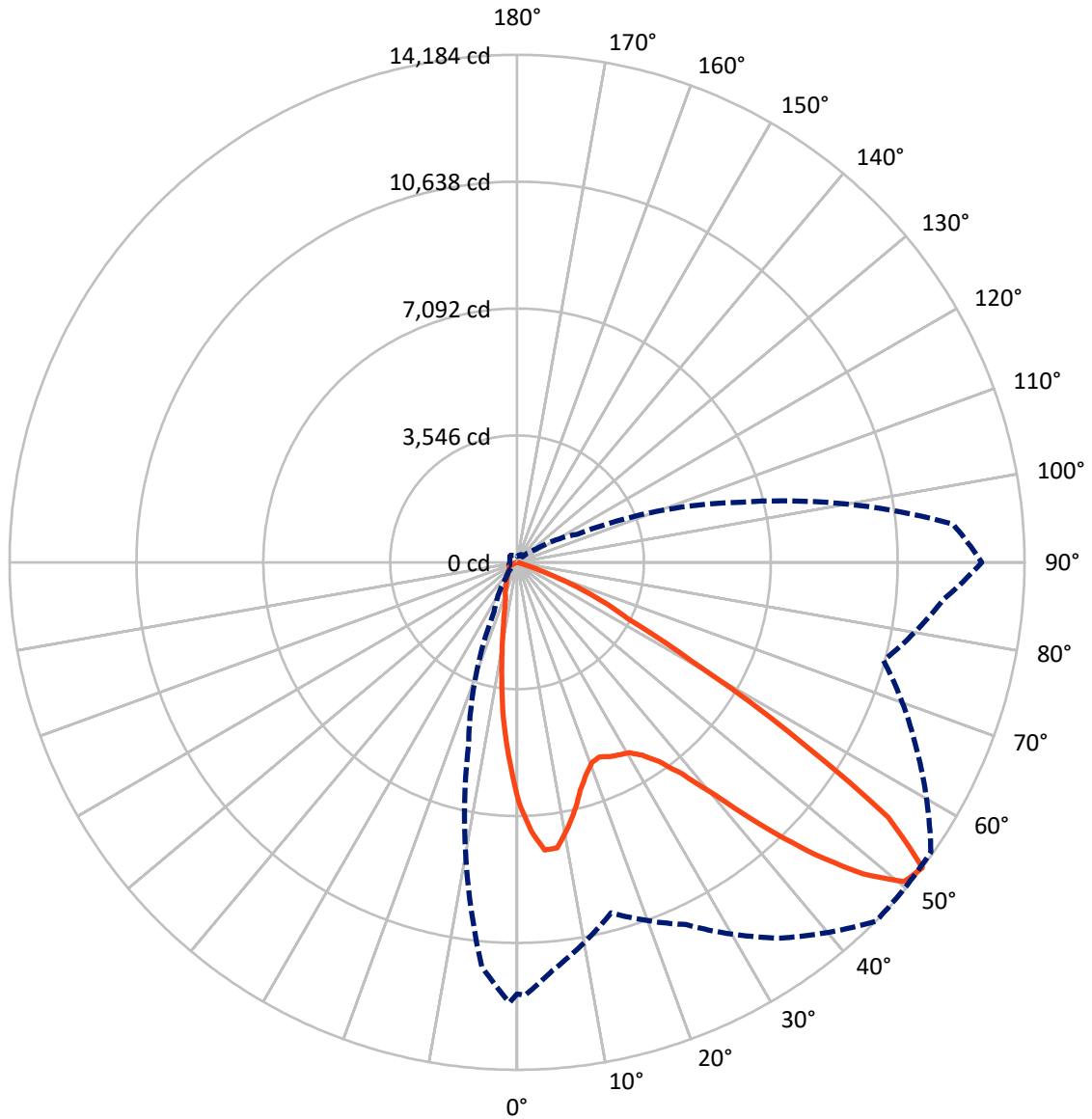
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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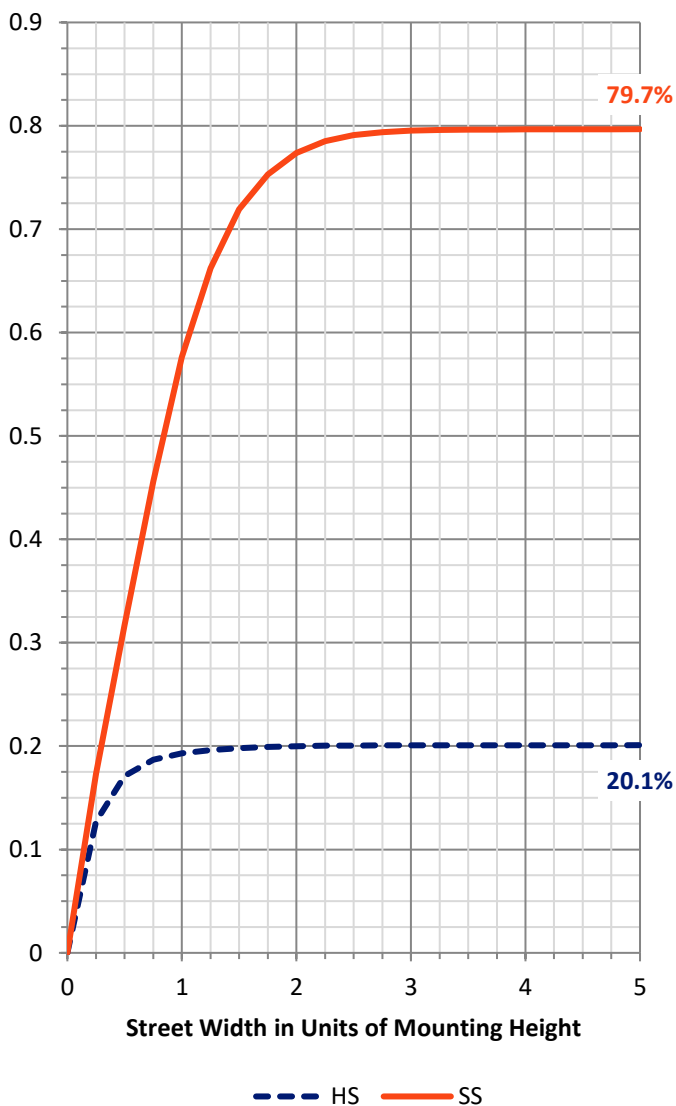
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2688.9	0.0	2688.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	10560.2	0.0	10560.2
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	13249.1	0.0	13249.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.9	3.7
10°-20°	966.6	7.3
20°-30°	1471.0	11.1
30°-40°	2198.6	16.6
40°-50°	3131.0	23.6
50°-60°	3365.8	25.4
60°-70°	1491.4	11.3
70°-80°	120.7	0.9
80°-90°	14.1	0.1
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°	13249.1	100.0
0°-180°	13249.1	100.0

**Coefficient of Utilization**

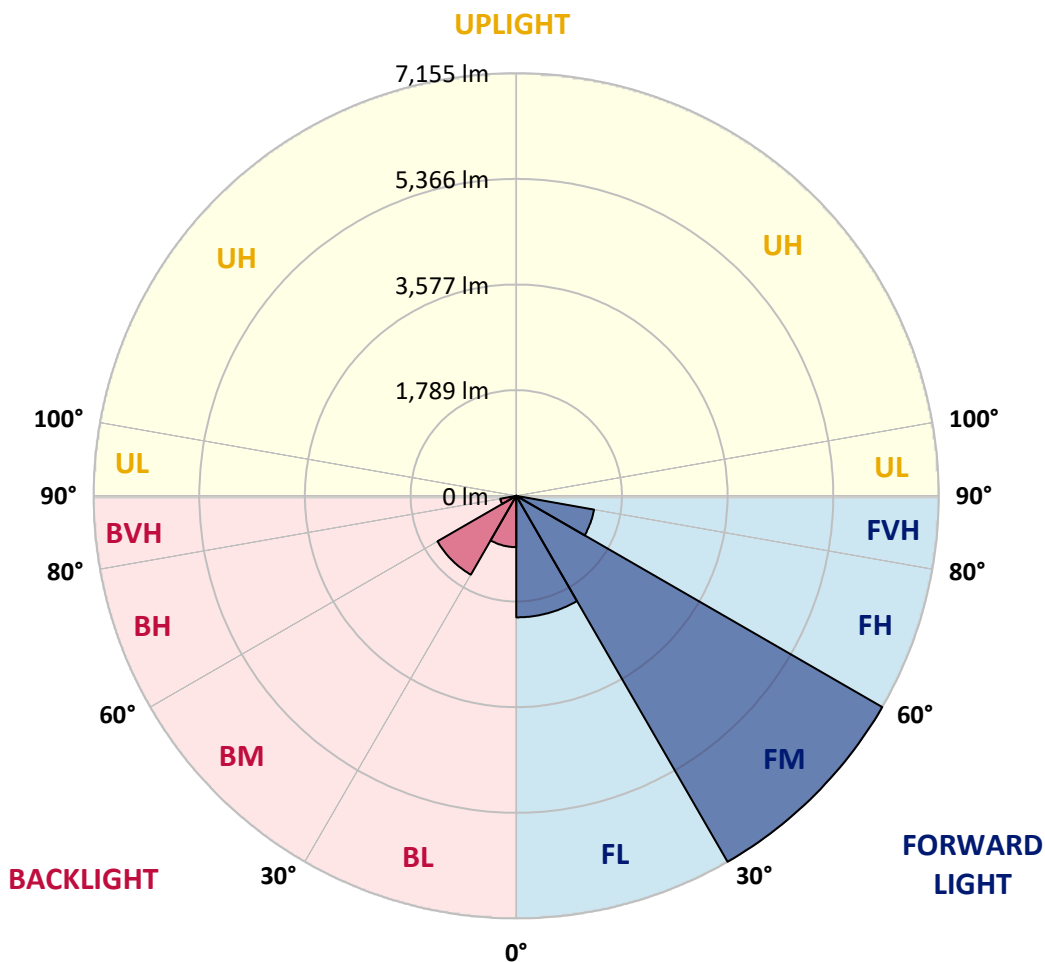


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2057.9	15.5			
FM (30°-60°)	7154.9	54.0			
FH (60°-80°)	1337.0	10.1			G1/1800
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	869.7	6.6	B2/1000		
BM (30°-60°)	1540.5	11.6	B2/2500		
BH (60°-80°)	275.1	2.1	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
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°	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9
2.5°	7108.8	7129.7	7244.3	7387.6	7463.2	7635.2	7515.3	7546.5	7481.5	7252.1	7072.3
5°	6892.5	6889.9	7035.8	7390.2	7726.4	8067.7	8078.1	7895.7	7575.2	7223.4	6720.5
7.5°	6241.1	6342.7	6493.8	7059.3	7682.1	7937.4	8060.0	7846.3	7353.8	6850.8	6306.2
10°	5748.6	5800.6	6056.0	6738.8	7194.8	7536.1	7611.7	7489.3	7111.4	6483.4	5873.6
12.5°	5464.5	5490.6	5790.2	6363.5	6845.6	7098.4	7134.9	7192.1	6921.2	6332.2	5600.0
15°	5467.1	5487.9	5891.9	6371.3	6561.6	6493.8	6613.7	6611.1	6728.3	6303.5	5829.3
17.5°	5860.6	5884.1	6248.9	6486.0	6402.6	6243.7	6235.8	6355.7	6603.3	6660.6	6175.9
20°	6538.1	6592.9	6861.2	6848.2	6379.2	6058.6	5970.0	6061.3	6637.2	6962.9	6874.2
22.5°	7450.2	7525.8	7713.3	7353.8	6486.0	5933.6	5904.9	6082.1	6861.2	7637.8	7666.5
25°	8508.1	8635.8	8727.1	8265.8	6866.4	6149.8	6014.3	6319.2	7163.6	8370.1	8674.9
27.5°	9209.1	9342.0	9321.1	8661.9	7121.8	6207.2	6092.5	6376.5	7426.7	8544.6	9201.3
30°	9756.4	9837.2	9983.1	8875.6	7377.2	6368.7	6173.3	6618.9	7512.7	8846.9	9837.2
32.5°	10394.8	10449.5	10459.9	9253.4	7770.7	6572.0	6423.5	6921.2	7893.1	9136.1	10400.0
35°	11038.5	11119.2	10949.8	9719.9	8013.0	6949.9	6840.4	7445.0	8198.1	9435.9	11020.2
37.5°	11736.8	11778.5	11387.6	9912.7	8359.6	7564.8	7504.9	8010.4	8727.1	9977.9	11708.1
40°	12323.1	12362.2	11854.1	10149.9	8724.4	8424.7	8578.5	9089.3	9446.3	10329.7	12052.1
42.5°	12648.9	12740.1	12010.4	10019.5	9456.7	9399.4	10082.1	10261.9	10280.1	10428.7	12359.6
45°	12737.4	12695.7	11752.5	10126.4	10097.7	11002.0	11622.1	11859.3	11108.8	10611.1	12437.8
47.5°	12328.3	12383.1	11372.0	10032.5	10939.4	12216.3	13018.9	13459.3	11726.4	10452.1	12245.0
50°	11997.4	11927.1	11249.6	9964.8	11166.1	12789.6	14027.4	14126.4	12294.5	10647.6	12033.9
52.5°	12062.5	12106.9	11444.9	10144.6	11171.3	12823.5	14183.7	14115.9	12312.7	10603.2	11958.3
55°	12200.6	12005.2	11361.6	9748.5	10423.4	11877.5	12588.9	12484.7	11364.2	10131.6	11773.3
57.5°	10527.7	10830.0	10446.9	8703.6	8555.1	8948.6	8935.5	9256.0	8476.9	8719.2	10718.0
60°	8544.6	8596.8	8740.1	7445.0	5920.6	5785.0	5597.4	5394.2	5704.3	7455.4	9748.5
62.5°	7515.3	7452.8	7963.5	6772.7	4179.8	3499.7	3468.4	3593.5	4401.3	7111.4	9143.9
65°	5461.9	5540.1	5910.1	5256.0	3137.4	2671.0	2624.1	2994.1	3562.2	5699.0	6978.5
67.5°	3335.5	3486.6	3520.5	3241.7	2129.0	1691.2	1623.5	1959.6	2571.9	3687.3	4091.2
70°	1540.0	1722.5	1894.4	1769.4	1232.6	695.8	656.7	823.4	1297.7	2121.2	2170.7
72.5°	466.4	469.0	656.7	685.3	398.7	156.3	138.1	182.4	440.4	701.0	737.5
75°	33.9	36.5	88.6	101.6	75.6	39.1	41.7	49.5	93.8	156.3	117.2
77.5°	2.6	2.6	2.6	13.0	23.5	26.1	33.9	39.1	49.5	57.4	52.1
80°	2.6	0.0	2.6	10.4	18.2	26.1	31.3	36.5	39.1	44.3	39.1
82.5°	0.0	0.0	0.0	7.8	18.2	26.1	28.7	39.1	44.3	52.1	44.3
85°	0.0	0.0	0.0	7.8	18.2	28.7	26.1	13.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9
2.5°	7103.6	7002.0	6770.0	6652.7	6376.5	6337.4	6066.5	6022.1	5931.0	5881.4	5761.5
5°	6499.0	6376.5	5998.7	5680.8	5310.7	5052.7	4854.8	4675.0	4570.7	4474.3	4518.6
7.5°	6006.5	5649.5	5229.9	4698.3	4271.0	3994.8	3692.5	3445.0	3299.0	3200.0	3223.5
10°	5490.6	5258.6	4675.0	4078.2	3562.2	3366.8	3129.6	2939.4	2733.6	2556.4	2473.0
12.5°	5329.0	4985.0	4252.8	3645.6	3254.8	3064.5	2793.5	2574.6	2311.4	2095.1	2019.6
15°	5357.7	5026.7	4138.1	3489.2	3028.0	2699.7	2376.6	2105.5	1816.3	1665.2	1587.0
17.5°	5824.1	5250.8	4213.7	3325.1	2712.7	2256.7	1858.0	1514.0	1297.7	1141.4	1107.5
20°	6397.4	5735.5	4375.2	3205.2	2454.7	1795.5	1357.6	1060.6	880.8	854.7	846.9
22.5°	7236.5	6527.7	4721.8	3124.4	2139.4	1399.3	930.3	771.4	721.8	716.6	719.2
25°	8409.2	7520.6	5099.7	3056.7	1902.3	1078.8	760.9	654.0	638.4	630.6	643.6
27.5°	8917.3	8119.9	5300.3	2910.8	1686.0	972.0	750.5	648.8	604.6	591.6	599.4
30°	9545.3	8518.6	5615.6	2660.6	1368.1	800.0	701.0	706.2	685.3	620.2	599.4
32.5°	10379.1	9016.3	5774.6	2483.4	1222.1	661.9	513.3	471.6	526.4	536.8	555.1
35°	10913.3	9521.8	5855.4	2379.2	1146.6	565.5	435.2	396.1	383.1	385.7	396.1
37.5°	11906.2	10204.5	5957.0	2269.7	1089.3	492.5	393.5	357.0	338.8	338.8	349.2
40°	12500.3	10746.6	6095.1	2209.8	1031.9	448.2	357.0	325.7	310.1	310.1	315.3
42.5°	12648.9	11015.0	6048.2	2189.0	966.8	437.8	325.7	302.3	284.0	281.4	278.8
45°	12914.6	11424.1	6056.0	2165.5	899.0	398.7	307.5	281.4	255.4	252.8	250.2
47.5°	13206.5	11718.6	6071.7	2074.2	833.9	333.5	320.5	260.6	229.3	224.1	224.1
50°	12956.4	11953.1	6207.2	1983.1	750.5	271.0	315.3	245.0	203.3	195.4	198.1
52.5°	12987.6	12229.3	6493.8	1855.4	646.2	216.3	255.4	231.9	185.0	172.0	174.6
55°	12487.3	11937.5	6532.9	1719.8	505.5	166.8	195.4	203.3	156.3	151.1	151.1
57.5°	10749.2	10108.1	5764.1	1394.1	333.5	138.1	140.7	177.2	135.5	130.3	132.9
60°	9198.7	8114.6	4638.5	919.9	208.5	109.4	101.6	179.8	119.8	117.2	125.1
62.5°	8385.7	6668.4	3517.9	570.7	143.3	83.4	70.4	145.9	104.2	104.2	114.6
65°	6058.6	4479.5	2045.6	299.6	101.6	65.2	52.1	83.4	86.0	88.6	93.8
67.5°	3752.5	2261.9	862.5	145.9	67.8	44.3	33.9	52.1	57.4	57.4	62.6
70°	1852.8	901.6	286.6	83.4	52.1	36.5	23.5	28.7	28.7	26.1	28.7
72.5°	573.3	271.0	73.0	52.1	36.5	23.5	13.0	10.4	5.2	0.0	2.6
75°	65.2	52.1	46.9	36.5	23.5	10.4	2.6	0.0	0.0	0.0	0.0
77.5°	39.1	44.3	44.3	36.5	23.5	7.8	0.0	0.0	0.0	0.0	0.0
80°	31.3	33.9	36.5	33.9	20.9	10.4	0.0	0.0	0.0	0.0	0.0
82.5°	39.1	44.3	49.5	44.3	28.7	13.0	5.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.8	2.6	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°	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9
2.5°	5712.1	5654.7	5735.5	5615.6	5613.0	5615.6	5581.8	5550.5	5600.0	5732.9	5746.0
5°	4359.6	4482.1	4521.1	4648.9	4578.5	4474.3	4495.1	4424.8	4596.7	4672.3	4612.4
7.5°	3173.9	3166.1	3429.3	3445.0	3478.8	3481.4	3476.2	3338.1	3197.4	3228.7	3322.5
10°	2462.5	2329.7	2457.3	2444.3	2527.7	2504.2	2538.1	2389.6	2439.1	2439.1	2499.0
12.5°	2006.5	1865.8	1842.4	1808.5	1842.4	1855.4	1868.4	1839.8	1923.1	1962.2	2003.9
15°	1532.2	1454.1	1433.2	1368.1	1378.5	1415.0	1446.3	1459.3	1433.2	1493.2	1498.4
17.5°	1112.7	1110.1	1123.2	1120.5	1110.1	1102.3	1099.7	1065.8	1055.4	1060.6	1081.4
20°	844.3	865.1	909.5	953.8	977.2	948.6	909.5	852.1	828.6	833.9	836.5
22.5°	721.8	753.1	813.0	862.5	886.0	833.9	763.5	714.0	703.6	701.0	698.4
25°	654.0	690.5	734.9	750.5	747.9	716.6	664.5	643.6	638.4	633.2	609.8
27.5°	617.6	630.6	638.4	656.7	664.5	643.6	630.6	599.4	594.2	594.2	578.5
30°	596.8	589.0	599.4	586.3	596.8	581.1	583.7	583.7	570.7	575.9	575.9
32.5°	555.1	557.7	557.7	531.6	539.4	521.2	539.4	555.1	557.7	560.3	581.1
35°	406.5	453.4	476.8	476.8	484.7	471.6	469.0	450.8	427.4	403.9	393.5
37.5°	357.0	375.3	406.5	424.8	437.8	427.4	403.9	375.3	362.2	351.8	341.4
40°	317.9	333.5	354.4	375.3	401.3	388.3	351.8	338.8	323.1	323.1	312.7
42.5°	286.6	294.4	307.5	338.8	367.4	341.4	315.3	304.9	297.0	294.4	291.8
45°	258.0	260.6	273.6	299.6	333.5	307.5	281.4	268.4	271.0	273.6	271.0
47.5°	231.9	237.2	245.0	276.2	297.0	284.0	255.4	247.6	247.6	247.6	250.2
50°	200.7	213.7	229.3	255.4	271.0	263.2	239.8	229.3	224.1	224.1	226.7
52.5°	179.8	190.2	211.1	242.4	263.2	250.2	226.7	211.1	200.7	198.1	203.3
55°	156.3	174.6	208.5	231.9	260.6	247.6	221.5	203.3	185.0	182.4	182.4
57.5°	140.7	169.4	200.7	229.3	252.8	242.4	221.5	198.1	174.6	172.0	172.0
60°	132.9	164.2	195.4	221.5	252.8	237.2	218.9	192.8	166.8	166.8	164.2
62.5°	125.1	153.7	185.0	211.1	242.4	229.3	211.1	185.0	158.9	158.9	153.7
65°	104.2	132.9	153.7	177.2	211.1	198.1	179.8	161.6	140.7	135.5	138.1
67.5°	73.0	91.2	112.0	135.5	156.3	151.1	143.3	130.3	112.0	109.4	106.8
70°	36.5	49.5	67.8	91.2	109.4	104.2	99.0	88.6	78.2	75.6	75.6
72.5°	5.2	15.6	28.7	41.7	57.4	60.0	57.4	54.7	52.1	49.5	52.1
75°	0.0	0.0	0.0	10.4	23.5	28.7	33.9	39.1	39.1	33.9	41.7
77.5°	0.0	0.0	0.0	0.0	2.6	13.0	26.1	33.9	41.7	36.5	49.5
80°	0.0	0.0	0.0	0.0	2.6	15.6	26.1	36.5	41.7	36.5	52.1
82.5°	0.0	0.0	0.0	0.0	2.6	18.2	26.1	33.9	39.1	36.5	46.9
85°	0.0	0.0	0.0	0.0	7.8	15.6	10.4	5.2	2.6	2.6	7.8
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: P652394

CATALOG NUMBER: GALN-SA5B-840-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9	6717.9
2.5°	5818.9	6003.9	6202.0	6277.6	6512.0	6689.2	6809.2	7067.1	7106.2	7108.8
5°	4675.0	4768.7	5107.5	5266.4	5615.6	5886.7	6175.9	6592.9	6871.6	6892.5
7.5°	3322.5	3583.1	3726.4	4140.7	4570.7	4995.5	5425.4	5910.1	6233.2	6241.1
10°	2673.6	2843.0	3098.4	3408.5	3770.7	4203.2	4776.5	5339.4	5667.8	5748.6
12.5°	2152.5	2449.5	2741.4	3061.9	3338.1	3663.8	4281.4	5032.0	5302.9	5464.5
15°	1657.4	1928.3	2272.3	2647.6	2960.2	3395.5	4099.0	4956.3	5412.3	5467.1
17.5°	1222.1	1464.5	1782.4	2136.8	2605.8	3223.5	4130.3	5339.4	5769.3	5860.6
20°	878.2	1018.9	1269.1	1680.8	2277.5	3022.8	4161.6	5727.7	6381.8	6538.1
22.5°	695.8	753.1	917.3	1282.1	1910.1	2811.7	4383.0	6470.3	7223.4	7450.2
25°	604.6	635.8	714.0	1011.1	1678.2	2790.9	4737.4	7361.5	8344.0	8508.1
27.5°	583.7	589.0	656.7	927.7	1553.1	2652.8	4873.0	7994.8	9042.3	9209.1
30°	615.0	698.4	703.6	784.4	1321.2	2379.2	4943.3	8607.1	9633.9	9756.4
32.5°	531.6	505.5	523.8	607.2	1162.2	2220.2	5076.2	9141.3	10308.8	10394.8
35°	370.0	388.3	430.0	526.4	1016.3	2053.4	5110.1	9730.3	10949.8	11038.5
37.5°	341.4	351.8	385.7	448.2	893.8	1959.6	5063.2	10160.3	11614.3	11736.8
40°	317.9	330.9	349.2	406.5	802.6	1855.4	4998.1	10548.5	12020.8	12323.1
42.5°	299.6	310.1	325.7	388.3	724.4	1751.1	4906.8	11095.7	12385.7	12648.9
45°	278.8	294.4	312.7	377.9	680.1	1680.8	4839.1	11061.9	12596.8	12737.4
47.5°	258.0	284.0	304.9	351.8	667.1	1646.9	4867.8	10934.2	12424.8	12328.3
50°	237.2	271.0	307.5	291.8	635.8	1579.1	4901.6	11108.8	12015.6	11997.4
52.5°	218.9	258.0	286.6	239.8	565.5	1514.0	5229.9	11338.1	12304.9	12062.5
55°	192.8	231.9	229.3	192.8	458.6	1464.5	5487.9	11343.3	12109.5	12200.6
57.5°	174.6	205.9	179.8	161.6	338.8	1224.7	5068.4	9511.4	10366.2	10527.7
60°	161.6	200.7	135.5	127.7	221.5	883.4	4424.8	7366.7	8239.8	8544.6
62.5°	148.5	190.2	106.8	104.2	153.7	628.0	3637.7	6165.5	7101.0	7515.3
65°	130.3	135.5	86.0	80.8	109.4	338.8	2215.0	4244.9	5308.1	5461.9
67.5°	106.8	104.2	70.4	65.2	73.0	164.2	977.2	2126.4	3077.6	3335.5
70°	86.0	86.0	60.0	52.1	52.1	75.6	255.4	846.9	1391.5	1540.0
72.5°	62.6	65.2	46.9	41.7	39.1	36.5	41.7	169.4	364.8	466.4
75°	54.7	57.4	46.9	36.5	28.7	23.5	18.2	15.6	20.9	33.9
77.5°	60.0	60.0	49.5	33.9	26.1	18.2	10.4	5.2	5.2	2.6
80°	75.6	78.2	65.2	44.3	31.3	20.9	13.0	5.2	2.6	2.6
82.5°	80.8	88.6	73.0	54.7	39.1	23.5	13.0	2.6	0.0	0.0
85°	20.9	33.9	57.4	49.5	39.1	23.5	13.0	2.6	0.0	0.0
87.5°	0.0	2.6	7.8	7.8	10.4	10.4	7.8	2.6	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

(END OF REPORT)