

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: P531772

Luminaire Tested: **GALN-SA7A-750-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531772  
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-SA7A-750-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 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: 23722 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

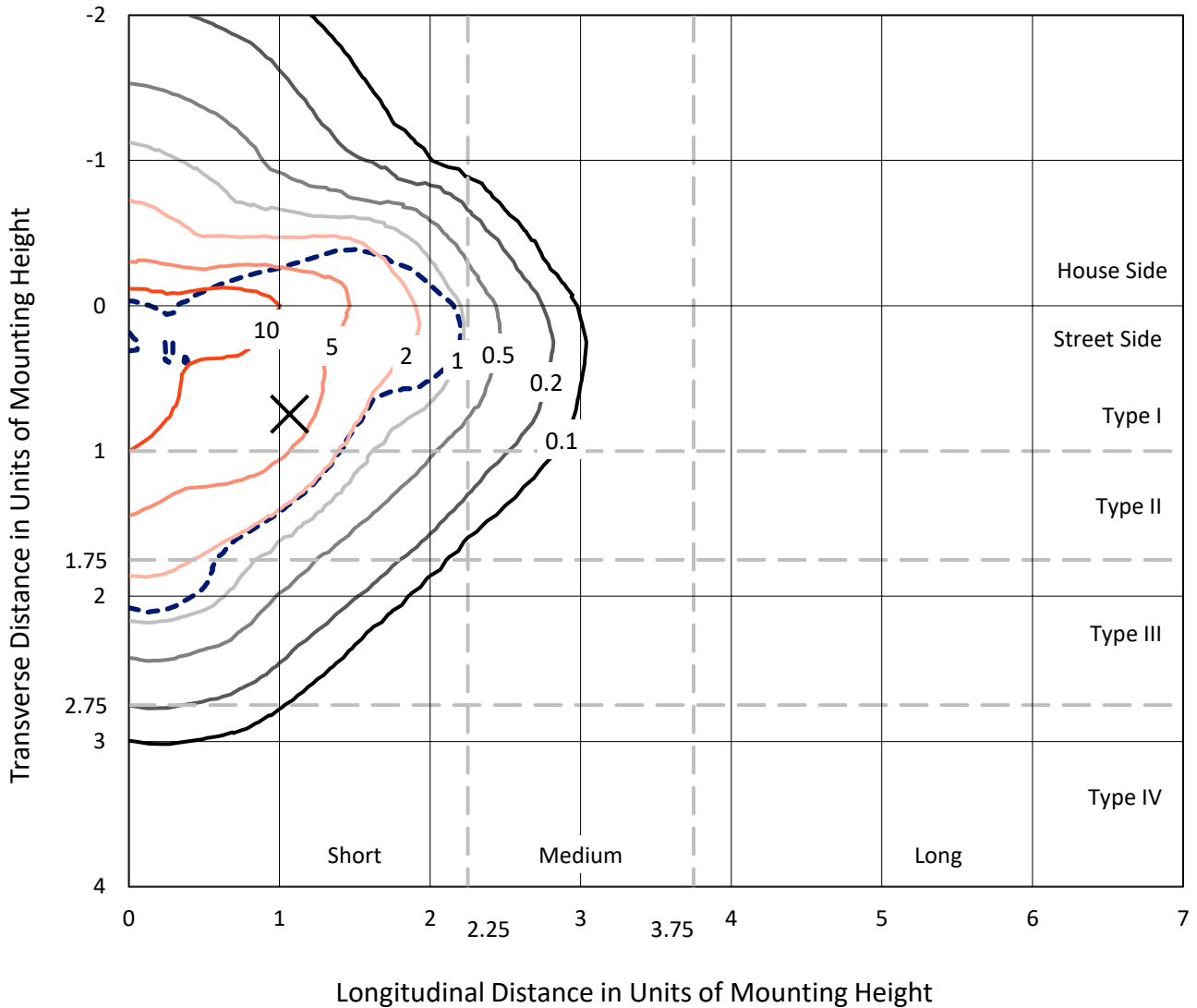
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

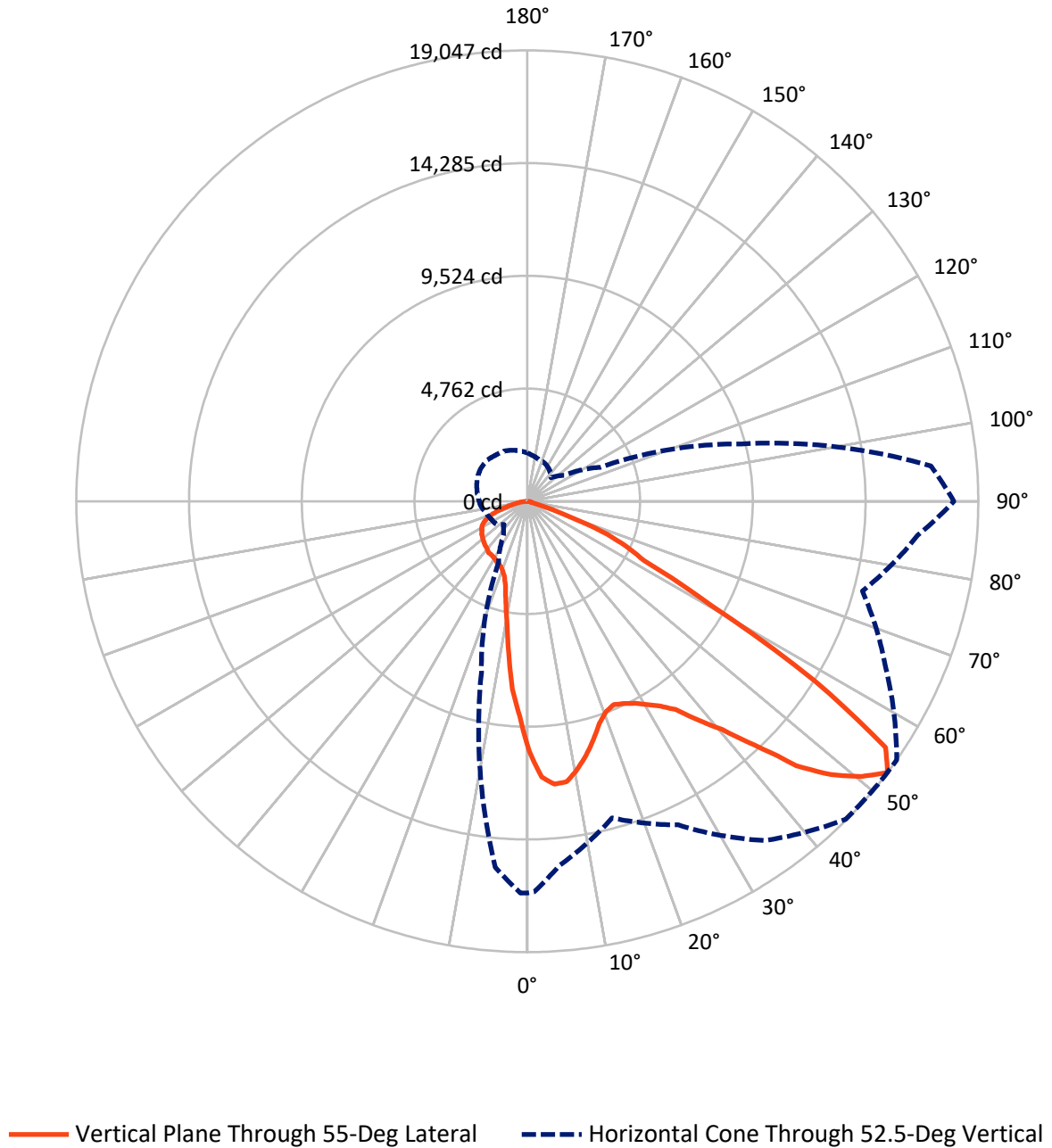
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7236.5	0.0	7236.5
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	16485.5	0.0	16485.5
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	23722.0	0.0	23722.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	808.4	3.4
10°-20°	1743.1	7.3
20°-30°	2643.1	11.1
30°-40°	3818.9	16.1
40°-50°	5103.0	21.5
50°-60°	5696.1	24.0
60°-70°	3124.6	13.2
70°-80°	675.5	2.8
80°-90°	109.3	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°	23722.0	100.0
0°-180°	23722.0	100.0

**Coefficient of Utilization**



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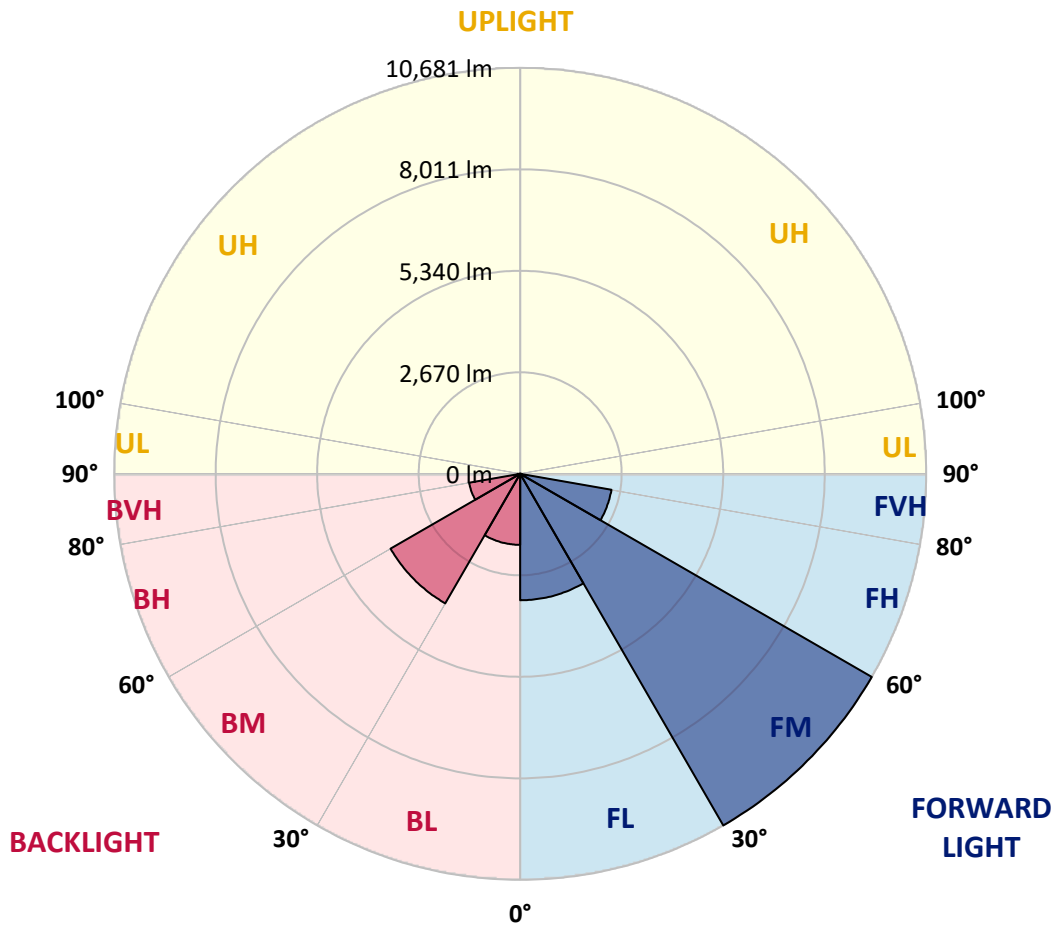
CATALOG NUMBER: GALN-SA7A-750-U-SLL-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3326.3	14.0			
FM (30°-60°)	10680.8	45.0			
FH (60°-80°)	2438.0	10.3			G2/5000
FVH (80°-90°)	40.5	0.2			G1/100
BL (0°-30°)	1868.4	7.9	B3/2500		
BM (30°-60°)	3937.2	16.6	B3/5000		
BH (60°-80°)	1362.1	5.7	B3/2500		G3/2500
BVH (80°-90°)	68.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8
2.5°	11104.9	11042.5	11098.0	11361.2	11513.6	11617.5	11683.3	11672.9	11423.5	11181.1	11181.1
5°	10779.3	10699.6	10813.9	11409.7	12008.9	12060.9	12147.5	12005.5	11638.3	11194.9	10640.7
7.5°	9837.1	9896.0	10086.5	10869.3	11648.7	12040.1	12144.0	11963.9	11368.1	10540.3	9726.3
10°	9023.1	9161.7	9601.6	10446.8	11163.8	11672.9	11787.2	11534.4	11063.3	10048.4	9321.0
12.5°	8742.6	8656.0	9144.4	9989.5	10675.4	10949.0	11001.0	11018.3	10699.6	9799.0	8912.3
15°	8707.9	8763.4	9144.4	9785.2	10207.8	10221.6	10308.2	10443.3	10484.9	9968.8	9102.8
17.5°	9206.7	9140.9	9532.3	10041.5	9840.6	9639.7	9660.5	9854.5	10197.4	10114.2	9702.0
20°	9944.5	10093.5	10401.7	10349.8	9809.4	9300.2	9303.7	9487.3	10162.7	10716.9	10536.8
22.5°	11170.7	11316.2	11544.8	10917.8	9809.4	9199.8	9082.0	9331.4	10384.4	11433.9	11479.0
25°	12289.5	12556.2	12618.5	11880.8	10301.3	9293.3	9217.1	9463.0	10606.1	12133.6	12559.7
27.5°	13307.8	13404.8	13678.5	12500.8	10574.9	9355.7	9348.7	9663.9	10886.7	12483.5	13526.1
30°	14111.4	14101.0	14256.9	12892.2	11011.4	9705.5	9369.5	9965.3	11253.8	13061.9	14419.7
32.5°	14658.7	14776.5	15105.5	13436.0	11194.9	10038.0	9774.8	10318.6	11700.6	13335.6	15050.1
35°	15621.6	15826.0	15410.4	13737.4	11776.9	10367.1	10058.8	10800.1	11922.3	13633.4	15822.5
37.5°	16529.2	16373.3	15950.7	13900.1	12154.4	10976.7	10689.2	11731.8	12611.6	14281.2	16335.2
40°	17111.1	17107.6	16356.0	14031.8	12421.1	11908.5	11891.2	12677.4	13456.8	14689.9	16910.2
42.5°	17363.9	17606.4	16522.2	14017.9	12982.2	13037.7	13387.5	14090.7	14056.0	14773.0	16896.3
44°	17710.3	17855.8	16809.7	14049.1	13356.3	13799.7	14624.1	15070.9	14579.0	14728.0	16879.0
45°	17696.5	17706.8	16401.0	14090.7	13675.0	14437.0	15174.8	15929.9	15039.7	14631.0	17107.6
47.5°	17291.2	17173.4	16054.6	13782.4	14669.1	16120.4	16802.8	17260.0	15607.8	14423.2	16823.6
50°	16491.1	16356.0	15212.9	13650.8	14876.9	17166.5	18108.6	18274.9	16123.9	14218.8	16543.0
52.5°	16546.5	16508.4	15451.9	13848.2	15084.8	17495.6	19005.8	19047.3	16709.3	14648.3	16546.5
55°	17537.1	17405.5	16137.7	14094.1	14932.4	17111.1	18434.2	18361.5	16511.8	14388.5	16851.3
57.5°	16047.7	16134.3	15188.7	13120.8	13068.8	13910.5	14492.5	14312.3	13778.9	12985.7	15677.1
60°	12947.6	13193.5	13283.6	10973.3	9861.4	9428.4	9255.2	8936.6	9026.6	10668.4	13772.0
62.5°	11104.9	11091.0	11655.6	9948.0	6459.9	5555.9	5472.8	5545.5	6584.6	10502.2	13488.0
65°	8804.9	9040.5	9213.7	8430.8	5112.5	4125.4	4121.9	4582.6	5697.9	8777.2	10890.1
67.5°	5590.5	5898.8	6113.6	5393.1	3418.8	2937.3	2857.6	3411.8	3948.7	5756.8	6556.9
70°	3152.0	3297.5	3394.5	3110.5	2175.3	1524.1	1434.0	1565.6	2386.5	3727.0	3886.4
72.5°	1215.8	1281.6	1413.2	1423.6	820.9	491.9	398.3	478.0	1004.5	1475.6	1406.3
75°	187.0	200.9	284.0	339.5	235.5	180.1	190.5	197.4	280.6	381.0	318.7
77.5°	90.1	90.1	86.6	100.4	117.8	128.2	138.6	152.4	166.3	183.6	176.7
80°	58.9	58.9	58.9	69.3	86.6	103.9	117.8	124.7	131.6	145.5	138.6
82.5°	38.1	38.1	38.1	52.0	69.3	86.6	93.5	110.8	124.7	145.5	135.1
85°	20.8	20.8	20.8	34.6	52.0	72.7	69.3	55.4	31.2	3.5	6.9
87.5°	6.9	6.9	6.9	6.9	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°	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8
2.5°	10890.1	10730.8	10716.9	10391.3	10100.4	9958.4	9844.1	9525.4	9594.7	9411.1	9407.6
5°	10363.6	10038.0	9511.5	9078.6	8645.6	8559.0	8181.4	7852.4	7862.8	7627.2	7668.8
7.5°	9418.0	9192.9	8552.1	7873.2	7298.2	6889.5	6532.7	6317.9	6044.3	5950.8	5902.3
10°	8818.8	8541.7	7821.2	6969.1	6324.9	6106.6	5763.7	5573.2	5292.7	5154.1	5057.1
12.5°	8555.5	8150.3	7249.7	6383.7	5954.2	5729.1	5438.1	5091.8	4759.2	4631.1	4454.4
15°	8583.2	8098.3	7083.4	6148.2	5632.1	5195.7	4935.9	4551.4	4212.0	3986.8	3858.7
17.5°	9002.4	8413.5	7159.6	5968.1	5226.8	4679.6	4170.4	3754.7	3484.6	3314.8	3273.3
20°	9993.0	9192.9	7287.8	5677.1	4821.6	4139.2	3512.3	3079.3	2871.5	2868.0	2871.5
22.5°	10817.4	10024.2	7547.6	5503.9	4416.3	3446.5	2823.0	2684.4	2642.9	2729.5	2739.8
25°	11929.3	10959.4	7994.4	5413.9	4042.2	2937.3	2552.8	2500.8	2497.4	2608.2	2611.7
27.5°	13068.8	11776.9	8261.1	5150.6	3661.2	2674.0	2390.0	2379.6	2435.0	2552.8	2542.4
30°	13844.7	12462.7	8742.6	4835.4	3210.9	2442.0	2324.2	2338.1	2414.3	2504.3	2518.2
32.5°	14748.8	13138.1	8867.3	4662.2	2933.8	2248.0	2164.9	2196.0	2293.0	2435.0	2511.2
35°	15784.4	13616.1	9057.8	4426.7	2829.9	2099.1	2057.5	2092.1	2209.9	2303.4	2386.5
37.5°	16549.9	14461.3	9092.4	4243.1	2715.6	2015.9	1950.1	2064.4	2133.7	2265.3	2306.9
40°	17118.0	15074.4	9182.5	4128.8	2625.5	1908.5	1908.5	1984.7	2078.3	2199.5	2282.6
42.5°	17481.7	15521.2	9248.3	4024.9	2452.4	1877.4	1860.0	1936.3	2060.9	2178.7	2216.8
44°	17703.4	15711.7	9182.5	3927.9	2403.9	1839.3	1839.3	1905.1	2002.1	2140.6	2185.6
45°	17758.8	15950.7	9037.0	3924.5	2345.0	1794.2	1787.3	1912.0	1977.8	2147.5	2175.3
47.5°	17973.6	16245.1	9054.3	3813.6	2203.0	1686.9	1808.1	1863.5	1922.4	2071.3	2164.9
50°	17966.6	16428.7	9016.2	3650.8	2099.1	1565.6	1766.5	1828.9	1887.8	2040.2	2078.3
52.5°	18015.1	17114.5	9366.1	3391.0	1912.0	1409.8	1628.0	1766.5	1839.3	1967.4	2047.1
55°	17990.9	17505.9	9712.4	3197.1	1648.8	1316.2	1510.2	1673.0	1776.9	1912.0	1950.1
57.5°	16432.2	15472.7	8988.5	2833.4	1364.7	1205.4	1343.9	1576.0	1707.6	1846.2	1894.7
60°	13425.6	11925.8	7412.5	2085.2	1122.3	1108.4	1250.4	1544.8	1600.3	1721.5	1804.6
62.5°	12407.3	10460.6	5878.0	1593.3	959.5	1014.9	1153.4	1395.9	1482.5	1631.4	1707.6
65°	9709.0	6948.3	3640.4	1077.2	845.2	911.0	1042.6	1222.7	1364.7	1503.3	1593.3
67.5°	5749.9	3796.3	1801.2	755.1	737.8	807.1	942.1	1077.2	1240.0	1392.4	1437.5
70°	3131.3	1867.0	769.0	575.0	626.9	689.3	820.9	914.4	1070.3	1188.1	1264.3
72.5°	1004.5	568.1	384.5	426.0	478.0	550.7	630.4	744.7	855.6	924.8	987.2
75°	242.5	239.0	273.6	297.9	346.4	401.8	467.6	526.5	613.1	678.9	734.3
77.5°	169.7	183.6	211.3	245.9	263.2	284.0	325.6	370.6	408.7	457.2	491.9
80°	131.6	142.0	162.8	180.1	197.4	214.8	235.5	252.9	277.1	308.3	325.6
82.5°	124.7	131.6	152.4	162.8	155.9	152.4	166.3	173.2	176.7	187.0	197.4
85°	10.4	0.0	6.9	24.2	58.9	86.6	93.5	93.5	90.1	97.0	97.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	13.9	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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8
2.5°	9366.1	9248.3	9293.3	9348.7	9269.1	9085.5	9134.0	9113.2	9300.2	9286.4	9473.4
5°	7852.4	7668.8	7689.6	7959.8	7873.2	7966.7	7779.6	7755.4	7790.0	7807.4	7838.5
7.5°	6009.7	5985.4	6193.2	6421.8	6529.2	6418.4	6234.8	6193.2	6155.1	6078.9	6252.1
10°	4904.7	4911.6	4897.8	5071.0	5192.2	5168.0	5057.1	5043.3	4970.5	4942.8	5039.8
12.5°	4378.2	4284.7	4239.7	4184.2	4277.8	4340.1	4291.6	4257.0	4260.4	4295.1	4308.9
15°	3869.0	3810.2	3713.2	3650.8	3695.9	3664.7	3647.4	3716.6	3699.3	3692.4	3775.5
17.5°	3297.5	3346.0	3339.1	3269.8	3328.7	3304.4	3301.0	3252.5	3186.7	3138.2	3165.9
20°	2920.0	3010.0	3079.3	3082.8	3113.9	3110.5	3058.5	2909.6	2861.1	2850.7	2857.6
22.5°	2784.9	2833.4	2916.5	3034.3	3034.3	2978.9	2916.5	2743.3	2698.3	2649.8	2629.0
25°	2677.5	2771.0	2878.4	2892.3	2947.7	2895.7	2795.3	2708.7	2615.2	2549.3	2549.3
27.5°	2622.1	2726.0	2805.7	2829.9	2906.1	2864.5	2760.6	2649.8	2539.0	2535.5	2476.6
30°	2597.8	2694.8	2746.8	2805.7	2840.3	2774.5	2743.3	2625.5	2514.7	2487.0	2390.0
32.5°	2525.1	2663.6	2760.6	2746.8	2774.5	2746.8	2701.7	2604.8	2480.1	2417.7	2407.3
35°	2442.0	2580.5	2684.4	2757.2	2774.5	2715.6	2687.9	2556.3	2386.5	2355.4	2248.0
37.5°	2396.9	2480.1	2608.2	2726.0	2750.2	2719.1	2625.5	2490.5	2320.7	2286.1	2192.6
40°	2341.5	2448.9	2549.3	2646.3	2719.1	2642.9	2535.5	2403.9	2327.7	2223.7	2196.0
42.5°	2299.9	2421.2	2504.3	2611.7	2694.8	2594.4	2469.7	2379.6	2272.2	2203.0	2123.3
44°	2286.1	2396.9	2452.4	2584.0	2653.3	2577.1	2473.1	2379.6	2254.9	2192.6	2123.3
45°	2237.6	2390.0	2448.9	2566.7	2625.5	2563.2	2431.6	2338.1	2248.0	2171.8	2099.1
47.5°	2189.1	2293.0	2393.5	2487.0	2528.6	2507.8	2396.9	2282.6	2175.3	2130.2	2060.9
50°	2175.3	2279.2	2372.7	2459.3	2507.8	2466.2	2365.8	2254.9	2130.2	2057.5	1998.6
52.5°	2106.0	2234.1	2338.1	2365.8	2428.1	2403.9	2327.7	2206.4	2088.7	2026.3	1977.8
55°	2005.5	2140.6	2282.6	2317.3	2407.3	2369.2	2254.9	2140.6	2040.2	1946.6	1884.3
57.5°	1967.4	2099.1	2237.6	2282.6	2338.1	2275.7	2248.0	2126.8	1967.4	1918.9	1821.9
60°	1870.4	2036.7	2151.0	2254.9	2258.4	2241.1	2192.6	2054.0	1922.4	1832.3	1763.1
62.5°	1794.2	1950.1	2040.2	2137.2	2196.0	2147.5	2099.1	1970.9	1828.9	1728.4	1648.8
65°	1683.4	1825.4	1901.6	1960.5	2026.3	2019.4	1936.3	1842.7	1693.8	1614.1	1537.9
67.5°	1513.7	1638.4	1742.3	1797.7	1839.3	1828.9	1766.5	1700.7	1548.3	1468.6	1413.2
70°	1309.3	1437.5	1503.3	1534.5	1576.0	1596.8	1548.3	1517.1	1382.0	1278.1	1226.2
72.5°	1053.0	1136.1	1233.1	1260.8	1278.1	1292.0	1292.0	1264.3	1125.7	1084.2	994.1
75°	775.9	841.7	914.4	914.4	945.6	949.1	956.0	938.7	834.8	779.4	758.6
77.5°	526.5	575.0	633.9	658.1	678.9	675.4	672.0	623.5	568.1	543.8	523.0
80°	342.9	391.4	419.1	450.3	471.1	467.6	474.5	439.9	415.7	374.1	381.0
82.5°	204.4	242.5	270.2	308.3	308.3	318.7	318.7	308.3	284.0	263.2	263.2
85°	97.0	128.2	145.5	169.7	183.6	187.0	166.3	142.0	117.8	107.4	117.8
87.5°	17.3	24.2	34.6	31.2	38.1	34.6	34.6	34.6	34.6	27.7	31.2
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: P531772

CATALOG NUMBER: GALN-SA7A-750-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8	10581.8
2.5°	9404.2	9577.4	9698.6	9899.5	10245.9	10523.0	10807.0	11018.3	11042.5	11104.9
5°	7952.8	8046.4	8354.6	8756.4	9040.5	9508.1	9809.4	10356.7	10561.1	10779.3
7.5°	6210.6	6363.0	6775.2	7045.3	7668.8	8254.2	8860.3	9535.8	9806.0	9837.1
10°	5237.2	5458.9	5739.5	6172.5	6511.9	7163.1	7918.2	8669.8	8971.2	9023.1
12.5°	4599.9	4883.9	5258.0	5569.8	5895.4	6463.4	7187.3	8115.6	8507.0	8742.6
15°	3986.8	4281.2	4693.4	5126.4	5413.9	6092.8	6944.9	7990.9	8500.1	8707.9
17.5°	3356.4	3630.0	3969.5	4437.1	5015.6	5777.6	6906.8	8406.6	8964.3	9206.7
20°	2816.1	2968.5	3363.3	3844.8	4568.7	5455.5	6920.6	9019.7	9837.1	9944.5
22.5°	2604.8	2639.4	2795.3	3238.6	4031.8	5126.4	7166.6	9889.1	10817.4	11170.7
25°	2442.0	2435.0	2476.6	2774.5	3640.4	4998.2	7409.0	10689.2	11905.0	12289.5
27.5°	2351.9	2282.6	2286.1	2566.7	3363.3	4790.4	7720.8	11607.1	13138.1	13307.8
30°	2306.9	2293.0	2251.5	2365.8	3062.0	4478.7	7772.7	12511.2	13865.5	14111.4
32.5°	2279.2	2144.1	2092.1	2133.7	2778.0	4139.2	7966.7	13106.9	14766.1	14658.7
35°	2140.6	2019.4	1984.7	2026.3	2577.1	3948.7	7838.5	13626.5	15441.5	15621.6
37.5°	2088.7	1981.3	1912.0	1877.4	2390.0	3789.4	7772.7	14426.6	16096.2	16529.2
40°	2040.2	1925.9	1842.7	1808.1	2244.5	3578.1	7751.9	15043.2	16851.3	17111.1
42.5°	1984.7	1912.0	1818.5	1756.1	2067.9	3366.8	7512.9	15233.7	17083.4	17363.9
44°	1967.4	1856.6	1759.6	1738.8	1998.6	3259.4	7464.4	15406.9	17284.3	17710.3
45°	1950.1	1846.2	1735.4	1707.6	1974.4	3200.5	7398.6	15448.5	17616.8	17696.5
47.5°	1901.6	1835.8	1728.4	1652.2	1922.4	3072.4	7201.2	15212.9	17277.3	17291.2
50°	1863.5	1787.3	1676.5	1527.5	1853.1	2965.0	7291.3	15126.3	16459.9	16491.1
52.5°	1821.9	1707.6	1645.3	1389.0	1738.8	2874.9	7481.8	15517.7	16553.4	16546.5
55°	1773.5	1648.8	1496.4	1271.2	1548.3	2760.6	7942.4	16290.2	17419.3	17537.1
57.5°	1697.3	1589.9	1371.7	1167.3	1330.1	2542.4	7793.5	14811.1	16026.9	16047.7
60°	1596.8	1496.4	1243.5	1087.6	1091.1	2005.5	6969.1	11541.3	12646.3	12947.6
62.5°	1499.8	1444.4	1136.1	973.3	928.3	1596.8	5891.9	9591.2	10855.5	11104.9
65°	1385.5	1250.4	1042.6	886.7	796.7	1118.8	4173.9	7166.6	8468.9	8804.9
67.5°	1240.0	1094.6	917.9	779.4	682.4	748.2	2154.5	4073.4	5393.1	5590.5
70°	1084.2	949.1	772.4	658.1	550.7	516.1	949.1	1943.2	2947.7	3152.0
72.5°	890.2	765.5	616.6	519.6	412.2	356.8	318.7	519.6	1046.1	1215.8
75°	644.3	557.7	464.1	370.6	291.0	228.6	187.0	155.9	173.2	187.0
77.5°	474.5	405.3	342.9	263.2	204.4	162.8	128.2	97.0	93.5	90.1
80°	370.6	329.1	273.6	211.3	159.3	121.2	90.1	65.8	58.9	58.9
82.5°	291.0	270.2	225.1	173.2	131.6	97.0	65.8	45.0	38.1	38.1
85°	110.8	110.8	162.8	142.0	100.4	69.3	45.0	24.2	20.8	20.8
87.5°	27.7	27.7	27.7	27.7	24.2	20.8	20.8	10.4	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)