

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: P650910

Luminaire Tested: **GALN-SA5C-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650910
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-SA5C-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA 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: 22051.9 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

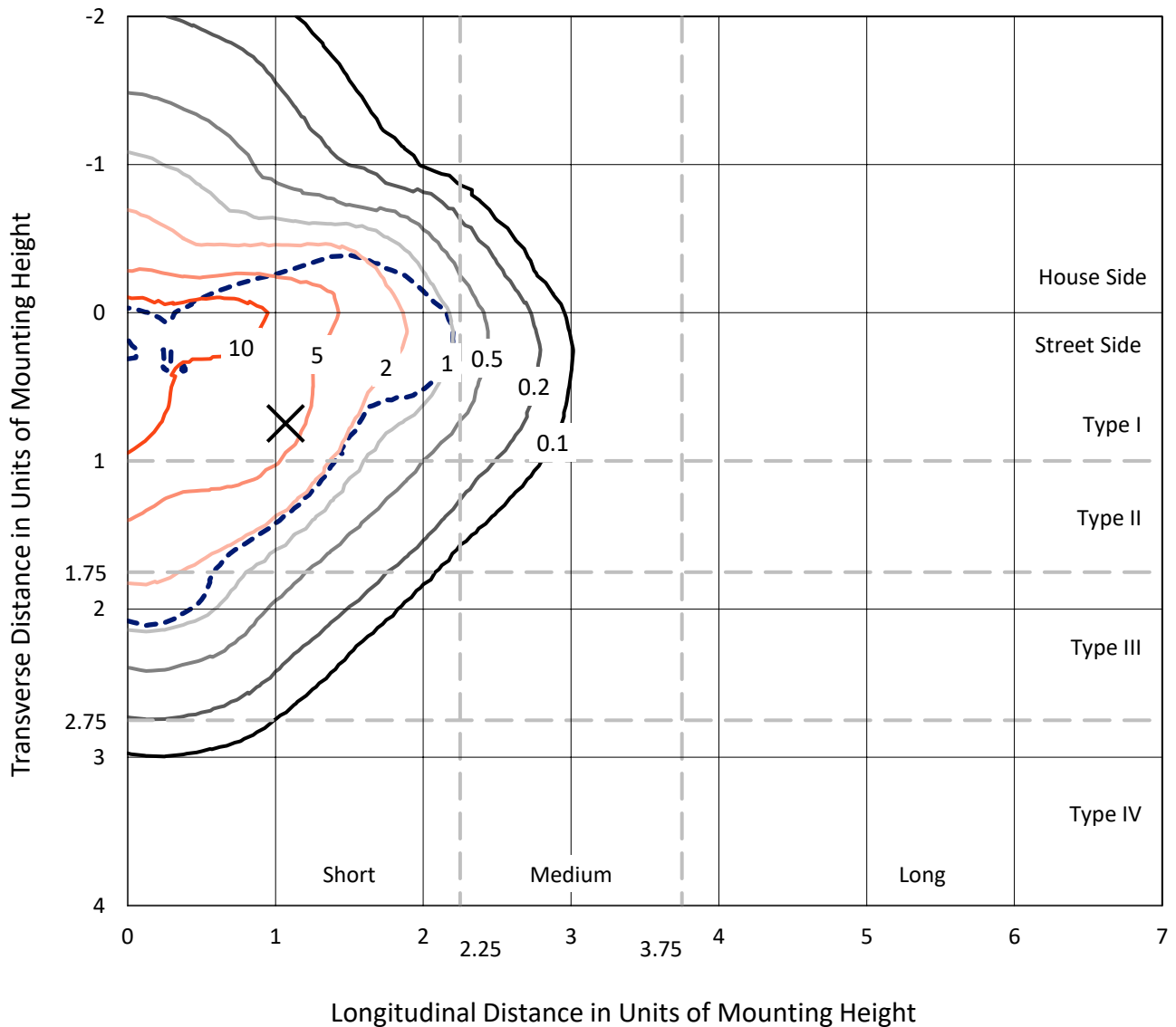
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

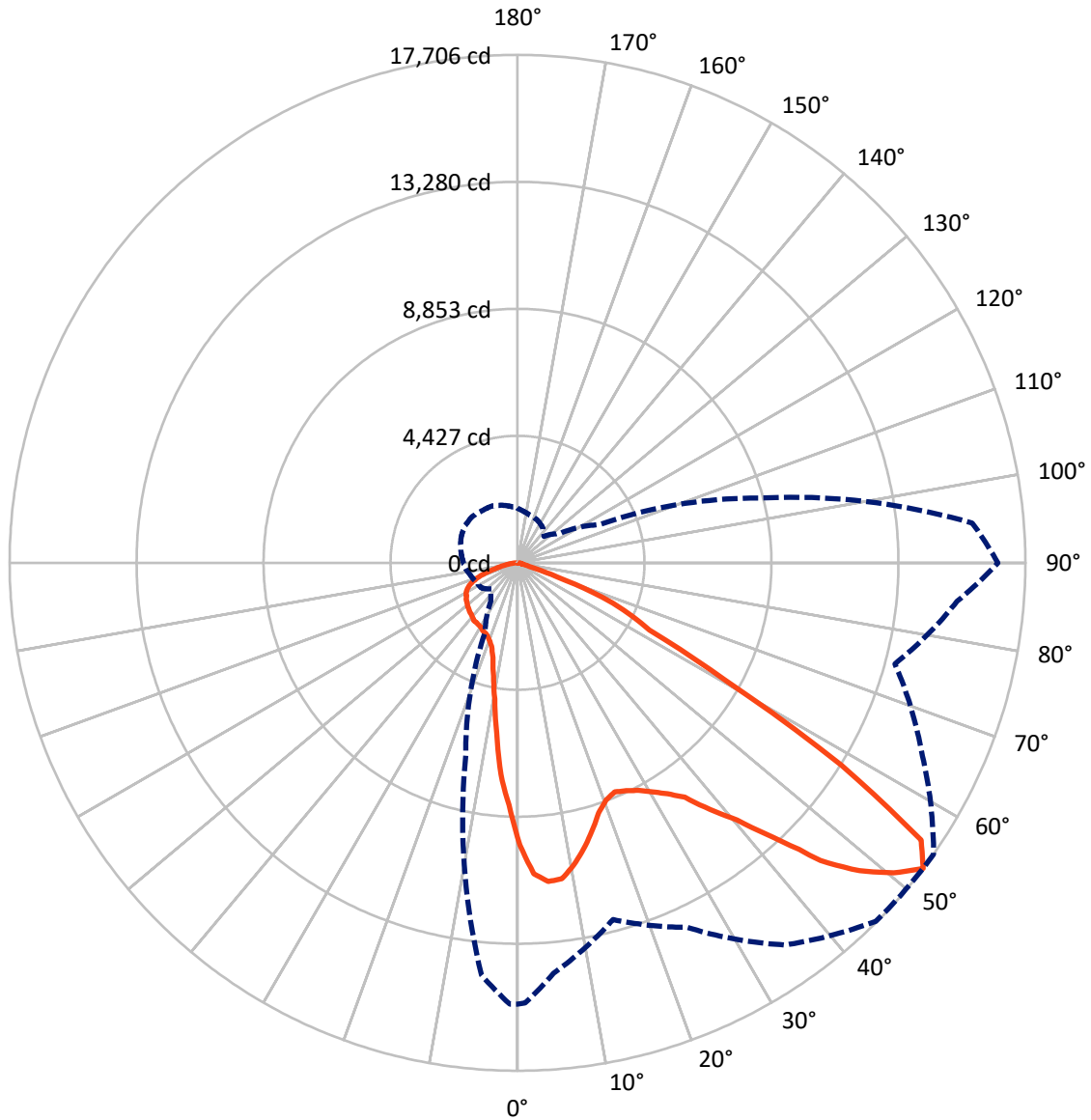
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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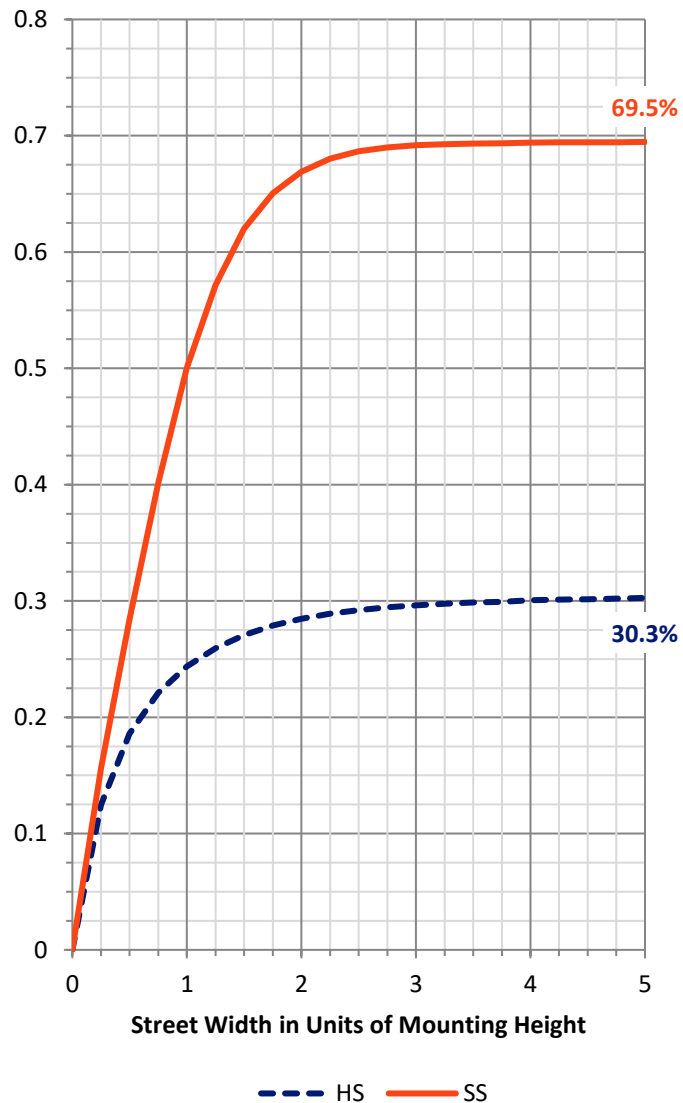
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6727.0	0.0	6727.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	15324.8	0.0	15324.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	22051.9	0.0	22051.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.5	3.4
10°-20°	1620.4	7.3
20°-30°	2457.0	11.1
30°-40°	3550.0	16.1
40°-50°	4743.8	21.5
50°-60°	5295.1	24.0
60°-70°	2904.6	13.2
70°-80°	628.0	2.8
80°-90°	101.6	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°	22051.9	100.0
0°-180°	22051.9	100.0

Coefficient of Utilization

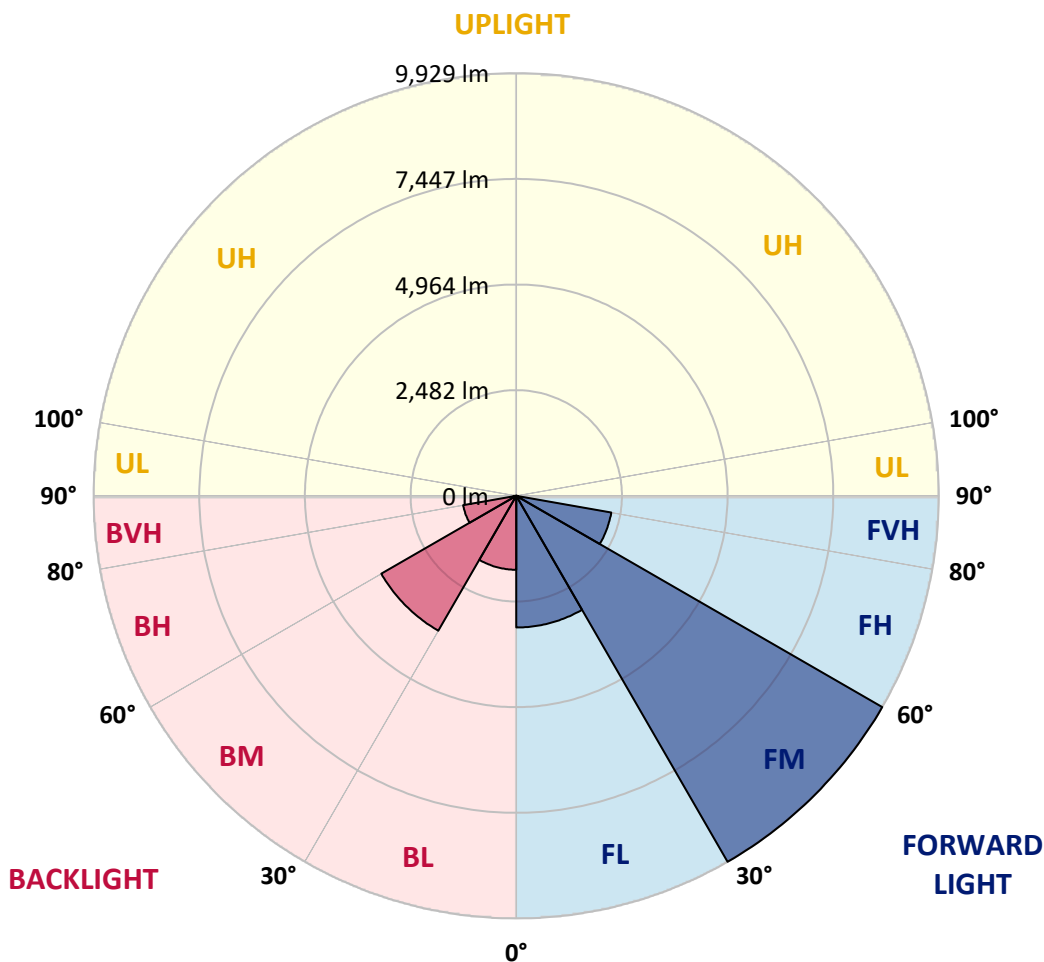


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3092.1	14.0			
FM (30°-60°)	9928.8	45.0			
FH (60°-80°)	2266.4	10.3			G2/5000
FVH (80°-90°)	37.6	0.2			G1/100
BL (0°-30°)	1736.8	7.9	B3/2500		
BM (30°-60°)	3660.0	16.6	B3/5000		
BH (60°-80°)	1266.2	5.7	B3/2500		G3/2500
BVH (80°-90°)	64.0	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°	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8
2.5°	10323.0	10265.1	10316.6	10561.3	10703.0	10799.6	10860.8	10851.1	10619.3	10393.9	10393.9
5°	10020.3	9946.3	10052.6	10606.4	11163.4	11211.7	11292.3	11160.2	10818.9	10406.8	9891.6
7.5°	9144.5	9199.3	9376.4	10104.1	10828.5	11192.4	11289.0	11121.6	10567.8	9798.2	9041.5
10°	8387.9	8516.6	8925.6	9711.3	10377.8	10851.1	10957.4	10722.3	10284.4	9341.0	8664.8
12.5°	8127.1	8046.6	8500.6	9286.2	9923.8	10178.1	10226.5	10242.5	9946.3	9109.1	8284.9
15°	8094.9	8146.3	8500.6	9096.3	9489.1	9502.0	9582.4	9708.0	9746.7	9266.9	8462.0
17.5°	8558.5	8497.4	8861.2	9334.5	9147.8	8961.0	8980.4	9160.7	9479.4	9402.1	9019.0
20°	9244.4	9382.9	9669.4	9621.1	9118.8	8645.5	8648.7	8819.3	9447.2	9962.4	9795.0
22.5°	10384.2	10519.5	10732.0	10149.2	9118.8	8552.1	8442.6	8674.4	9653.3	10628.9	10670.8
25°	11424.2	11672.2	11730.2	11044.3	9576.0	8639.0	8568.2	8796.8	9859.4	11279.3	11675.4
27.5°	12370.9	12461.1	12715.4	11620.7	9830.4	8696.9	8690.6	8983.6	10120.2	11604.5	12573.8
30°	13117.9	13108.2	13253.2	11984.5	10236.1	9022.2	8709.9	9263.7	10461.5	12142.3	13404.5
32.5°	13626.6	13736.1	14042.0	12490.0	10406.8	9331.3	9086.6	9592.1	10876.9	12396.7	13990.5
35°	14521.8	14711.8	14325.4	12770.2	10947.7	9637.2	9350.7	10039.7	11083.0	12673.6	14708.6
37.5°	15365.4	15220.5	14827.7	12921.5	11298.7	10203.9	9936.7	10905.8	11723.7	13275.7	15185.1
40°	15906.3	15903.1	15204.4	13043.9	11546.6	11070.1	11053.9	11784.8	12509.4	13655.7	15719.6
42.5°	16141.4	16366.8	15359.0	13031.0	12068.3	12119.7	12444.9	13098.6	13066.4	13732.9	15706.8
44°	16463.4	16598.6	15626.2	13060.0	12416.0	12828.1	13594.5	14009.9	13552.6	13691.1	15690.6
45°	16450.5	16460.2	15246.3	13098.6	12712.2	13420.6	14106.4	14808.4	13980.9	13600.9	15903.1
47.5°	16073.8	15964.4	14924.3	12812.0	13636.3	14985.4	15619.8	16044.9	14508.9	13407.7	15639.2
50°	15330.0	15204.4	14141.8	12689.7	13829.5	15957.9	16833.7	16988.3	14988.7	13217.7	15378.3
52.5°	15381.6	15346.1	14364.0	12873.2	14022.7	16263.8	17667.6	17706.3	15532.8	13617.1	15381.6
55°	16302.4	16180.1	15001.6	13101.9	13881.0	15906.3	17136.4	17068.8	15349.3	13375.5	15664.9
57.5°	14917.8	14998.4	14119.3	12197.0	12148.7	12931.1	13472.1	13304.7	12808.9	12071.5	14573.4
60°	12036.1	12264.6	12348.4	10200.7	9167.1	8764.6	8603.6	8307.4	8391.1	9917.3	12802.4
62.5°	10323.0	10310.2	10835.0	9247.6	6005.2	5164.7	5087.5	5155.1	6121.1	9762.7	12538.4
65°	8185.0	8403.9	8565.0	7837.3	4752.6	3834.9	3831.7	4259.9	5296.8	8159.3	10123.4
67.5°	5197.0	5483.5	5683.1	5013.4	3178.1	2730.5	2656.5	3171.6	3670.7	5351.5	6095.3
70°	2930.1	3065.4	3155.5	2891.4	2022.1	1416.7	1333.1	1455.4	2218.6	3464.7	3612.8
72.5°	1130.2	1191.4	1313.7	1323.4	763.1	457.3	370.3	444.4	933.8	1371.7	1307.3
75°	173.8	186.8	264.1	315.5	218.9	167.4	177.1	183.5	260.8	354.2	296.2
77.5°	83.7	83.7	80.5	93.4	109.5	119.2	128.8	141.7	154.6	170.6	164.2
80°	54.7	54.7	54.7	64.4	80.5	96.6	109.5	115.9	122.4	135.2	128.8
82.5°	35.4	35.4	35.4	48.3	64.4	80.5	87.0	103.0	115.9	135.2	125.6
85°	19.3	19.3	19.3	32.2	48.3	67.6	64.4	51.6	29.0	3.2	6.5
87.5°	6.5	6.5	6.5	6.5	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°	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8
2.5°	10123.4	9975.3	9962.4	9659.7	9389.3	9257.2	9151.0	8854.7	8919.1	8748.5	8745.3
5°	9634.0	9331.3	8841.9	8439.4	8036.9	7956.4	7605.4	7299.5	7309.2	7090.2	7128.9
7.5°	8755.0	8545.7	7950.0	7318.9	6784.3	6404.4	6072.8	5873.1	5618.7	5531.8	5486.8
10°	8197.9	7940.3	7270.5	6478.5	5879.6	5676.7	5357.9	5180.8	4920.0	4791.3	4701.1
12.5°	7953.2	7576.5	6739.3	5934.3	5535.0	5325.7	5055.3	4733.2	4424.2	4305.0	4140.8
15°	7979.0	7528.1	6584.7	5715.4	5235.6	4829.9	4588.4	4231.0	3915.4	3706.1	3586.9
17.5°	8368.5	7821.1	6655.6	5547.9	4858.9	4350.1	3876.8	3490.4	3239.2	3081.4	3042.8
20°	9289.4	8545.7	6774.7	5277.4	4482.1	3847.8	3265.0	2862.5	2669.3	2666.1	2669.3
22.5°	10055.8	9318.4	7016.2	5116.5	4105.4	3203.8	2624.3	2495.4	2456.8	2537.3	2547.0
25°	11089.3	10187.8	7431.6	5032.7	3757.7	2730.5	2373.0	2324.8	2321.6	2424.6	2427.8
27.5°	12148.7	10947.7	7679.5	4788.0	3403.4	2485.7	2221.8	2212.1	2263.6	2373.0	2363.4
30°	12870.0	11585.3	8127.1	4495.0	2984.9	2270.0	2160.5	2173.5	2244.3	2328.0	2340.8
32.5°	13710.4	12213.2	8243.0	4334.0	2727.3	2089.7	2012.4	2041.4	2131.6	2263.6	2334.4
35°	14673.2	12657.5	8420.1	4115.0	2630.6	1951.3	1912.6	1944.8	2054.3	2141.3	2218.6
37.5°	15384.7	13443.1	8452.3	3944.4	2524.4	1874.0	1812.8	1919.1	1983.5	2105.9	2144.5
40°	15912.8	14013.1	8536.0	3838.2	2440.7	1774.2	1774.2	1845.0	1931.9	2044.6	2121.9
42.5°	16250.9	14428.4	8597.2	3741.5	2279.7	1745.2	1729.1	1799.9	1915.9	2025.3	2060.8
44°	16456.9	14605.6	8536.0	3651.4	2234.6	1709.8	1709.8	1771.0	1861.1	1989.9	2031.8
45°	16508.5	14827.7	8400.7	3648.2	2179.9	1668.0	1661.5	1777.4	1838.6	1996.4	2022.1
47.5°	16708.1	15101.4	8416.8	3545.2	2047.8	1568.1	1680.8	1732.3	1787.0	1925.5	2012.4
50°	16701.7	15272.1	8381.4	3393.8	1951.3	1455.4	1642.1	1700.1	1754.8	1896.5	1931.9
52.5°	16746.7	15909.6	8706.6	3152.3	1777.4	1310.5	1513.4	1642.1	1709.8	1828.9	1902.9
55°	16724.2	16273.4	9028.6	2972.0	1532.6	1223.6	1403.9	1555.2	1651.8	1777.4	1812.8
57.5°	15275.3	14383.4	8355.7	2633.9	1268.6	1120.5	1249.3	1465.0	1587.4	1716.2	1761.3
60°	12480.4	11086.1	6890.6	1938.4	1043.3	1030.4	1162.4	1436.1	1487.6	1600.3	1677.5
62.5°	11533.7	9724.1	5464.2	1481.2	891.9	943.4	1072.2	1297.7	1378.1	1516.6	1587.4
65°	9025.4	6459.1	3384.1	1001.4	785.7	846.8	969.2	1136.6	1268.6	1397.4	1481.2
67.5°	5345.1	3529.0	1674.3	702.0	685.8	750.3	875.8	1001.4	1152.8	1294.4	1336.3
70°	2910.8	1735.6	714.8	534.5	582.8	640.8	763.1	850.1	995.0	1104.4	1175.3
72.5°	933.8	528.1	357.4	396.0	444.4	512.0	586.0	692.3	795.3	859.8	917.7
75°	225.4	222.2	254.4	276.9	322.0	373.5	434.7	489.5	569.9	631.1	682.6
77.5°	157.8	170.6	196.4	228.6	244.7	264.1	302.7	344.6	380.0	425.0	457.3
80°	122.4	132.0	151.3	167.4	183.5	199.7	218.9	235.1	257.6	286.6	302.7
82.5°	115.9	122.4	141.7	151.3	144.9	141.7	154.6	161.0	164.2	173.8	183.5
85°	9.7	0.0	6.5	22.5	54.7	80.5	87.0	87.0	83.7	90.2	90.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	12.9	9.7
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°	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8
2.5°	8706.6	8597.2	8639.0	8690.6	8616.5	8445.8	8490.9	8471.6	8645.5	8632.6	8806.4
5°	7299.5	7128.9	7148.2	7399.4	7318.9	7405.8	7231.9	7209.4	7241.6	7257.7	7286.7
7.5°	5586.5	5564.0	5757.2	5969.8	6069.5	5966.5	5795.8	5757.2	5721.8	5650.9	5812.0
10°	4559.4	4565.9	4552.9	4714.0	4826.7	4804.1	4701.1	4688.2	4620.5	4594.8	4685.0
12.5°	4069.9	3983.1	3941.2	3889.6	3976.6	4034.5	3989.5	3957.2	3960.5	3992.7	4005.6
15°	3596.6	3541.9	3451.7	3393.8	3435.7	3406.6	3390.6	3455.0	3438.8	3432.5	3509.7
17.5°	3065.4	3110.4	3104.0	3039.6	3094.4	3071.8	3068.6	3023.5	2962.3	2917.3	2943.0
20°	2714.4	2798.1	2862.5	2865.7	2894.7	2891.4	2843.2	2704.7	2659.7	2650.0	2656.5
22.5°	2588.9	2633.9	2711.1	2820.6	2820.6	2769.2	2711.1	2550.2	2508.3	2463.2	2443.9
25°	2489.0	2575.9	2675.7	2688.6	2740.1	2691.9	2598.4	2518.0	2431.0	2369.9	2369.9
27.5°	2437.5	2534.1	2608.1	2630.6	2701.5	2662.9	2566.3	2463.2	2360.2	2357.0	2302.2
30°	2414.9	2505.1	2553.4	2608.1	2640.3	2579.2	2550.2	2440.7	2337.6	2311.9	2221.8
32.5°	2347.3	2476.1	2566.3	2553.4	2579.2	2553.4	2511.6	2421.4	2305.4	2247.5	2237.8
35°	2270.0	2398.9	2495.4	2563.0	2579.2	2524.4	2498.6	2376.3	2218.6	2189.5	2089.7
37.5°	2228.1	2305.4	2424.6	2534.1	2556.6	2527.6	2440.7	2315.1	2157.3	2125.1	2038.2
40°	2176.7	2276.5	2369.9	2460.0	2527.6	2456.8	2357.0	2234.6	2163.8	2067.2	2041.4
42.5°	2138.0	2250.7	2328.0	2427.8	2505.1	2411.7	2295.8	2212.1	2112.3	2047.8	1973.8
44°	2125.1	2228.1	2279.7	2402.1	2466.5	2395.6	2299.0	2212.1	2096.2	2038.2	1973.8
45°	2080.0	2221.8	2276.5	2385.9	2440.7	2382.7	2260.4	2173.5	2089.7	2018.9	1951.3
47.5°	2035.0	2131.6	2224.9	2311.9	2350.5	2331.3	2228.1	2121.9	2022.1	1980.2	1915.9
50°	2022.1	2118.7	2205.6	2286.2	2331.3	2292.6	2199.2	2096.2	1980.2	1912.6	1857.9
52.5°	1957.7	2076.8	2173.5	2199.2	2257.2	2234.6	2163.8	2051.1	1941.6	1883.7	1838.6
55°	1864.3	1989.9	2121.9	2154.1	2237.8	2202.4	2096.2	1989.9	1896.5	1809.6	1751.6
57.5°	1828.9	1951.3	2080.0	2121.9	2173.5	2115.5	2089.7	1977.0	1828.9	1783.8	1693.7
60°	1738.8	1893.3	1999.6	2096.2	2099.4	2083.3	2038.2	1909.4	1787.0	1703.4	1638.9
62.5°	1668.0	1812.8	1896.5	1986.7	2041.4	1996.4	1951.3	1832.1	1700.1	1606.7	1532.6
65°	1564.8	1696.9	1767.7	1822.4	1883.7	1877.2	1799.9	1713.0	1574.5	1500.5	1429.6
67.5°	1407.1	1523.1	1619.6	1671.2	1709.8	1700.1	1642.1	1581.0	1439.3	1365.3	1313.7
70°	1217.1	1336.3	1397.4	1426.4	1465.0	1484.4	1439.3	1410.4	1284.7	1188.2	1139.9
72.5°	978.8	1056.1	1146.3	1172.0	1188.2	1201.0	1201.0	1175.3	1046.5	1007.9	924.1
75°	721.2	782.5	850.1	850.1	879.0	882.3	888.7	872.6	776.0	724.5	705.2
77.5°	489.5	534.5	589.2	611.7	631.1	627.9	624.7	579.6	528.1	505.5	486.2
80°	318.7	363.8	389.6	418.6	437.9	434.7	441.1	408.9	386.4	347.8	354.2
82.5°	190.0	225.4	251.1	286.6	286.6	296.2	296.2	286.6	264.1	244.7	244.7
85°	90.2	119.2	135.2	157.8	170.6	173.8	154.6	132.0	109.5	99.8	109.5
87.5°	16.1	22.5	32.2	29.0	35.4	32.2	32.2	32.2	32.2	25.7	29.0
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: P650910

CATALOG NUMBER: GALN-SA5C-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8	9836.8
2.5°	8742.0	8903.1	9015.8	9202.5	9524.5	9782.1	10046.2	10242.5	10265.1	10323.0
5°	7392.9	7479.9	7766.5	8140.0	8403.9	8838.7	9118.8	9627.5	9817.5	10020.3
7.5°	5773.3	5915.0	6298.2	6549.3	7128.9	7673.0	8236.5	8864.4	9115.6	9144.5
10°	4868.5	5074.6	5335.4	5737.9	6053.4	6658.8	7360.7	8059.5	8339.6	8387.9
12.5°	4276.1	4540.1	4887.8	5177.6	5480.3	6008.4	6681.3	7544.3	7908.1	8127.1
15°	3706.1	3979.8	4363.0	4765.4	5032.7	5663.8	6455.9	7428.3	7901.7	8094.9
17.5°	3120.1	3374.4	3690.1	4124.7	4662.4	5370.8	6420.5	7814.7	8333.1	8558.5
20°	2617.8	2759.5	3126.5	3574.1	4247.0	5071.4	6433.4	8384.7	9144.5	9244.4
22.5°	2421.4	2453.5	2598.4	3010.6	3748.0	4765.4	6662.0	9192.9	10055.8	10384.2
25°	2270.0	2263.6	2302.2	2579.2	3384.1	4646.4	6887.4	9936.7	11066.8	11424.2
27.5°	2186.3	2121.9	2125.1	2385.9	3126.5	4453.2	7177.2	10789.9	12213.2	12370.9
30°	2144.5	2131.6	2092.9	2199.2	2846.4	4163.4	7225.5	11630.4	12889.3	13117.9
32.5°	2118.7	1993.1	1944.8	1983.5	2582.4	3847.8	7405.8	12184.2	13726.5	13626.6
35°	1989.9	1877.2	1845.0	1883.7	2395.6	3670.7	7286.7	12667.1	14354.4	14521.8
37.5°	1941.6	1841.8	1777.4	1745.2	2221.8	3522.6	7225.5	13410.9	14962.9	15365.4
40°	1896.5	1790.2	1713.0	1680.8	2086.5	3326.2	7206.2	13984.1	15664.9	15906.3
42.5°	1845.0	1777.4	1690.5	1632.5	1922.3	3129.8	6984.0	14161.2	15880.6	16141.4
44°	1828.9	1725.9	1635.7	1616.4	1857.9	3030.0	6938.9	14322.1	16067.4	16463.4
45°	1812.8	1716.2	1613.2	1587.4	1835.3	2975.2	6877.7	14360.8	16376.5	16450.5
47.5°	1767.7	1706.6	1606.7	1535.9	1787.0	2856.0	6694.2	14141.8	16060.9	16073.8
50°	1732.3	1661.5	1558.5	1419.9	1722.6	2756.2	6778.0	14061.4	15301.1	15330.0
52.5°	1693.7	1587.4	1529.4	1291.2	1616.4	2672.5	6955.0	14425.3	15387.9	15381.6
55°	1648.6	1532.6	1391.0	1181.7	1439.3	2566.3	7383.2	15143.2	16193.0	16302.4
57.5°	1577.7	1478.0	1275.1	1085.1	1236.4	2363.4	7244.8	13768.3	14898.6	14917.8
60°	1484.4	1391.0	1156.0	1011.1	1014.2	1864.3	6478.5	10728.7	11755.9	12036.1
62.5°	1394.2	1342.7	1056.1	904.8	863.0	1484.4	5477.1	8915.9	10091.2	10323.0
65°	1288.0	1162.4	969.2	824.3	740.6	1040.1	3880.0	6662.0	7872.7	8185.0
67.5°	1152.8	1017.5	853.3	724.5	634.3	695.5	2002.8	3786.6	5013.4	5197.0
70°	1007.9	882.3	718.0	611.7	512.0	479.8	882.3	1806.4	2740.1	2930.1
72.5°	827.5	711.6	573.1	483.0	383.2	331.7	296.2	483.0	972.4	1130.2
75°	598.9	518.4	431.4	344.6	270.5	212.5	173.8	144.9	161.0	173.8
77.5°	441.1	376.8	318.7	244.7	190.0	151.3	119.2	90.2	87.0	83.7
80°	344.6	305.9	254.4	196.4	148.1	112.7	83.7	61.1	54.7	54.7
82.5°	270.5	251.1	209.3	161.0	122.4	90.2	61.1	41.9	35.4	35.4
85°	103.0	103.0	151.3	132.0	93.4	64.4	41.9	22.5	19.3	19.3
87.5°	25.7	25.7	25.7	25.7	22.5	19.3	19.3	9.7	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)