

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: P531358

Luminaire Tested: **GALN-SA6C-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22825 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

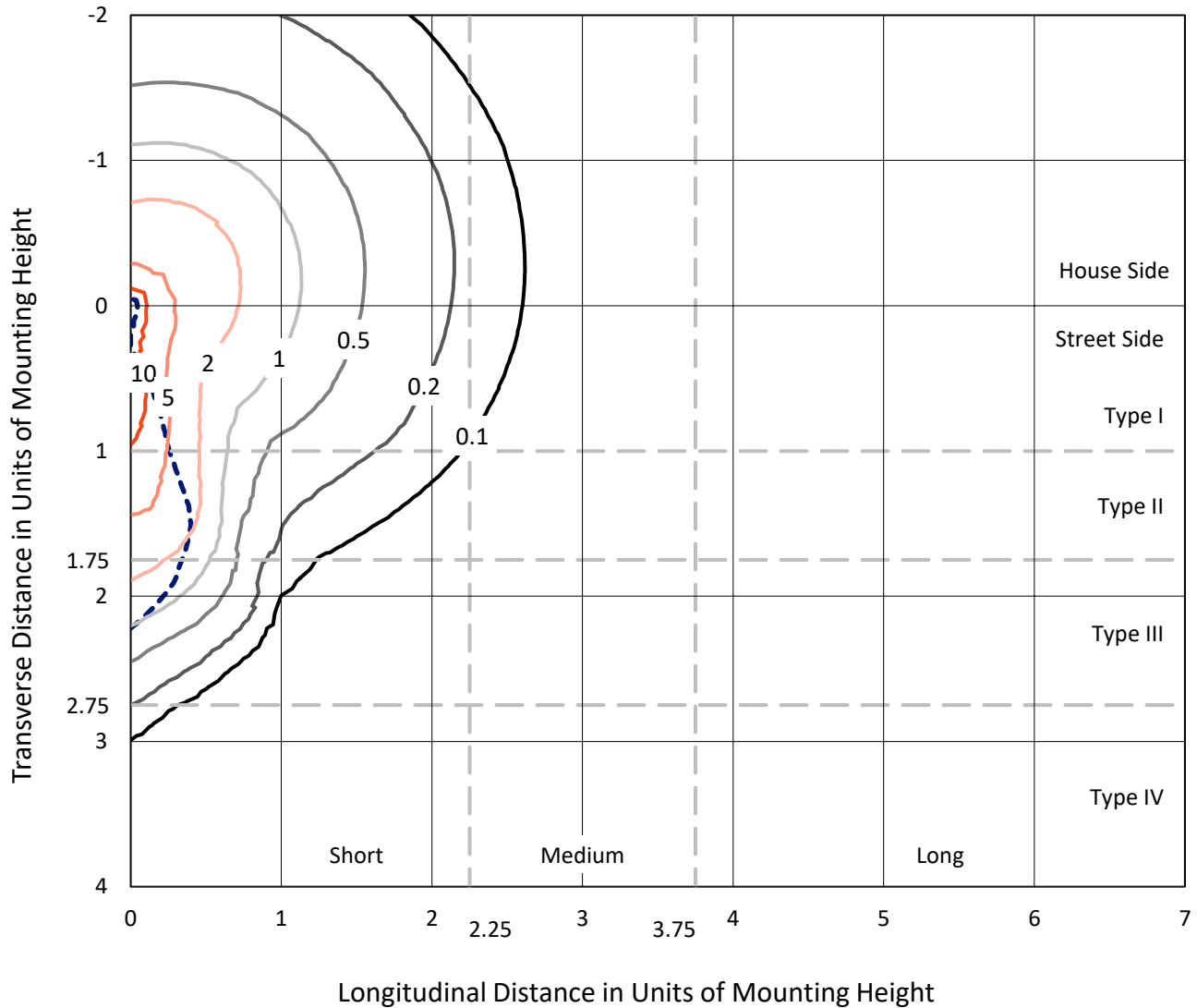
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

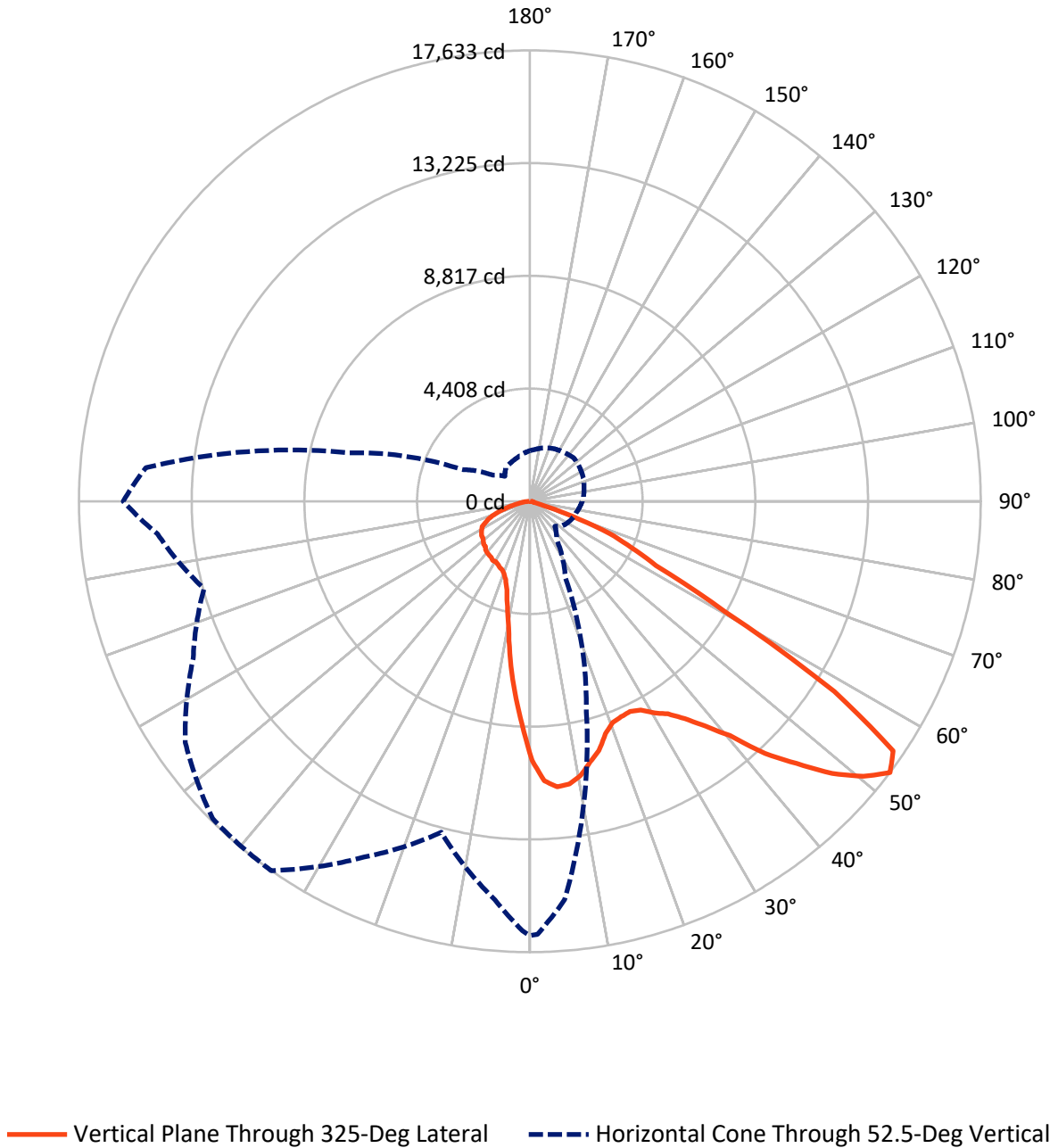
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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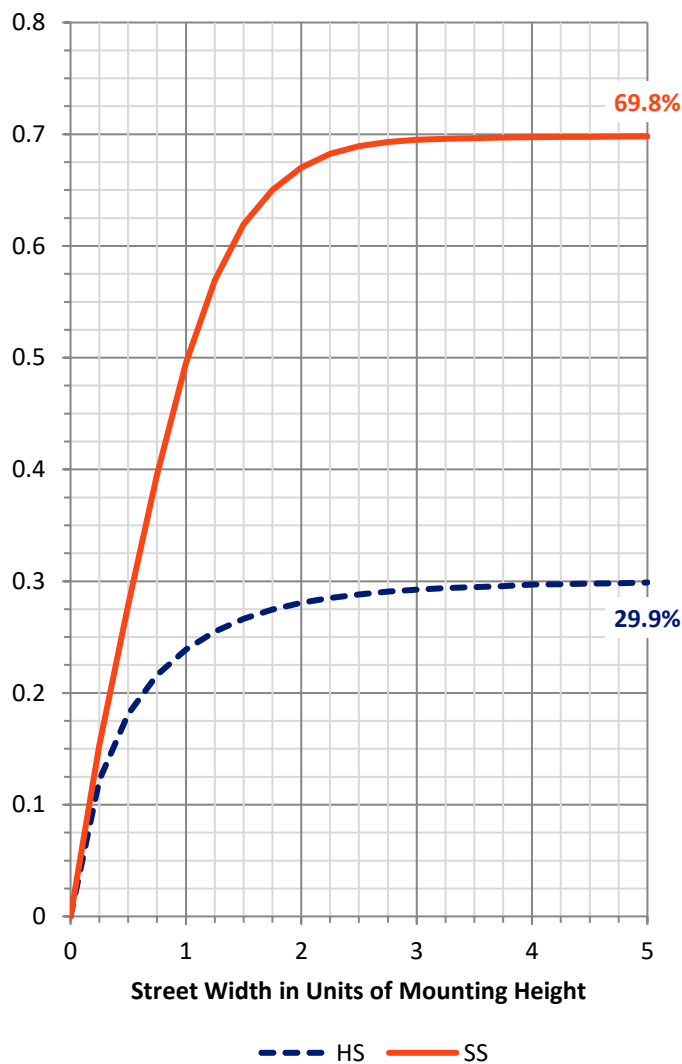
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6880.8	0.0	6880.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	15944.2	0.0	15944.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	22825.0	0.0	22825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.8	3.4
10°-20°	1675.4	7.3
20°-30°	2531.3	11.1
30°-40°	3657.9	16.0
40°-50°	4868.0	21.3
50°-60°	5445.0	23.9
60°-70°	3068.8	13.4
70°-80°	684.1	3.0
80°-90°	121.8	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°	22825.0	100.0
0°-180°	22825.0	100.0

Coefficient of Utilization



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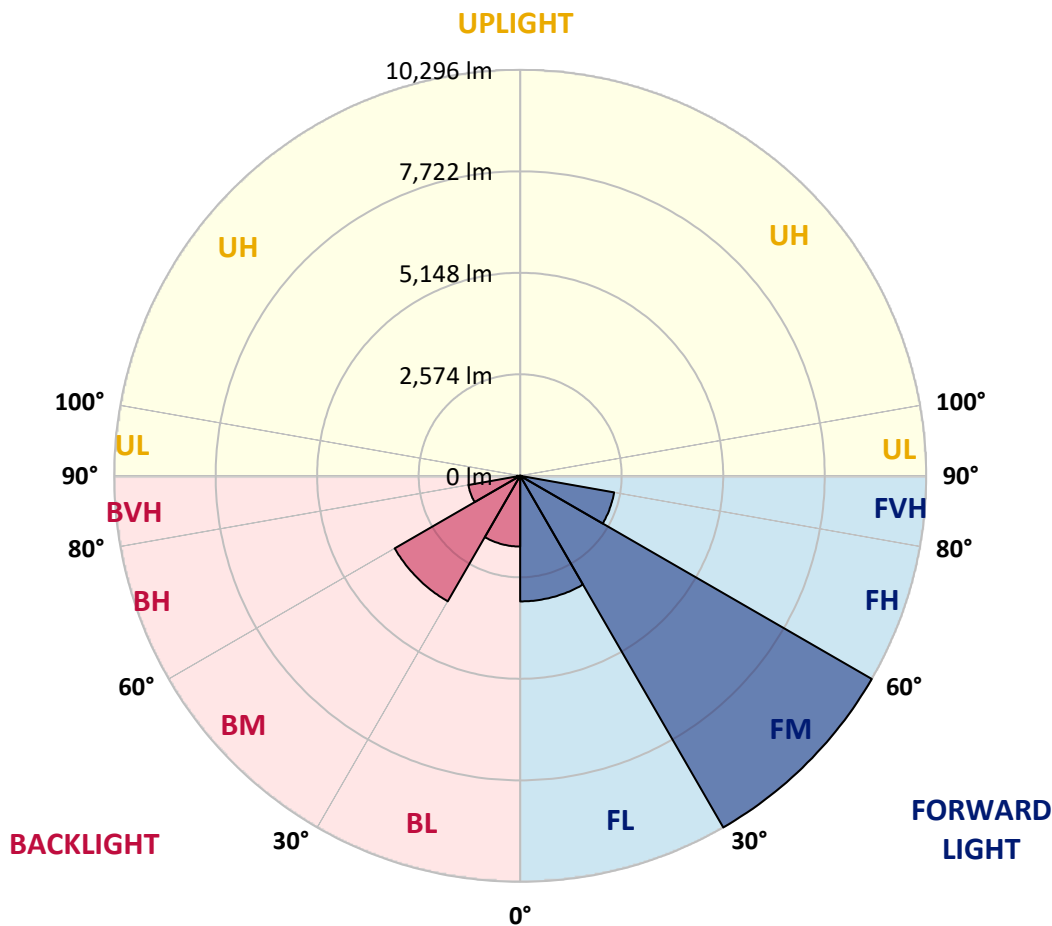
CATALOG NUMBER: GALN-SA6C-827-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3185.2	14.0			
FM (30°-60°)	10295.8	45.1			
FH (60°-80°)	2419.1	10.6			G2/5000
FVH (80°-90°)	44.1	0.2			G1/100
BL (0°-30°)	1794.3	7.9	B3/2500		
BM (30°-60°)	3675.0	16.1	B3/5000		
BH (60°-80°)	1333.7	5.8	B3/2500		G3/2500
BVH (80°-90°)	77.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9
2.5°	10298.6	10464.0	10285.4	9967.8	9742.8	9537.7	9322.7	9279.7	8998.5	8948.8	8743.7
5°	9713.0	9676.6	9458.3	9041.5	8581.6	8164.8	7857.1	7559.4	7357.6	7122.7	7106.1
7.5°	9001.8	8790.0	8664.3	8032.4	7463.4	6808.4	6527.2	6074.0	5931.7	5720.0	5610.8
10°	8366.6	8211.1	7916.7	7284.8	6490.8	6057.4	5756.4	5511.6	5346.1	5127.8	4853.2
12.5°	8052.3	7989.4	7658.6	6679.4	6090.5	5627.3	5415.6	5177.4	4896.2	4545.5	4409.9
15°	8108.5	7896.8	7645.4	6563.6	5749.7	5303.1	4965.7	4667.9	4307.3	3973.2	3778.0
17.5°	8528.7	8366.6	7863.7	6636.4	5620.7	4975.6	4363.6	3923.6	3599.4	3298.3	3162.7
20°	9355.7	9120.9	8555.1	6729.0	5342.8	4519.1	3817.7	3275.2	2927.8	2769.0	2722.7
22.5°	10272.1	10133.2	9230.0	6937.4	5121.2	4095.6	3238.8	2696.2	2567.2	2524.2	2610.2
25°	11387.0	11026.4	10278.7	7278.2	4949.1	3735.0	2749.2	2448.1	2381.9	2425.0	2524.2
27.5°	12233.9	12138.0	11013.2	7599.1	4714.3	3301.6	2474.6	2276.1	2295.9	2338.9	2431.6
30°	13239.6	12753.3	11724.5	7820.7	4502.5	3003.9	2282.7	2229.8	2249.6	2322.4	2368.7
32.5°	13845.0	13663.1	12171.1	8154.8	4257.7	2745.9	2133.8	2084.2	2114.0	2223.1	2332.3
35°	14615.9	14255.3	12723.5	8240.9	4085.7	2643.3	2028.0	1991.6	2061.0	2137.1	2259.5
37.5°	15515.7	15267.6	13487.8	8181.3	3993.1	2537.4	1938.6	1922.1	1971.7	2077.6	2219.8
40°	16048.3	15972.3	13888.1	8217.7	3847.5	2444.8	1836.1	1855.9	1958.5	2041.2	2180.1
42.5°	16561.1	16064.9	14480.2	8204.5	3754.9	2319.1	1846.0	1822.8	1902.2	1998.2	2130.5
45°	16673.6	16180.7	14619.2	8111.8	3642.4	2196.7	1769.9	1779.8	1875.8	1994.9	2080.9
47.5°	16600.8	16236.9	14877.2	8085.4	3536.5	2110.7	1657.4	1776.5	1832.8	1928.7	2051.1
50°	16551.2	16531.3	15095.6	8211.1	3394.3	1975.0	1521.8	1733.5	1789.8	1885.7	2018.0
52.5°	16987.9	16944.9	15641.4	8541.9	3281.8	1829.5	1382.9	1624.4	1760.0	1852.6	1981.6
55°	17252.5	17064.0	16577.7	8948.8	3093.2	1637.6	1286.9	1488.7	1687.2	1769.9	1902.2
57.5°	15519.0	15390.0	14996.3	8353.3	2775.6	1386.2	1167.8	1349.8	1588.0	1717.0	1852.6
60°	12912.1	12710.3	11701.3	7099.5	2047.8	1078.5	1095.0	1240.6	1561.5	1611.1	1769.9
62.5°	12174.4	11674.8	10301.9	5713.4	1571.4	926.3	982.6	1141.3	1422.5	1505.3	1664.1
65°	9660.1	9289.6	7370.8	4125.4	1052.0	803.9	896.5	1028.9	1227.4	1389.5	1535.0
67.5°	6047.5	5693.5	3933.5	1951.9	734.4	688.1	800.6	939.5	1101.6	1247.2	1409.3
70°	3159.4	2772.3	1816.2	704.7	506.2	562.4	668.3	800.6	959.4	1078.5	1204.2
72.5°	1177.7	956.1	592.2	304.4	350.7	430.1	542.6	638.5	751.0	896.5	966.0
75°	182.0	155.5	152.2	185.3	238.2	311.0	387.1	483.0	582.3	674.9	721.2
77.5°	86.0	82.7	92.6	122.4	158.8	221.7	281.2	373.8	453.2	512.8	539.2
80°	56.2	52.9	59.5	82.7	119.1	165.4	225.0	287.8	360.6	410.2	403.6
82.5°	33.1	36.4	36.4	56.2	82.7	119.1	162.1	218.3	268.0	311.0	284.5
85°	19.8	16.5	16.5	33.1	56.2	95.9	135.6	92.6	95.9	95.9	109.2
87.5°	6.6	6.6	6.6	3.3	6.6	6.6	9.9	16.5	19.8	23.2	29.8
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9
2.5°	8737.1	8839.7	8803.3	8674.2	8773.5	8790.0	8723.9	8952.1	8995.1	8925.7	8945.5
5°	7083.0	7109.4	7169.0	7294.7	7384.0	7489.9	7489.9	7496.5	7407.2	7632.1	7566.0
7.5°	5518.2	5534.7	5604.2	5872.2	5948.2	6150.0	6236.1	6176.5	5997.9	5921.8	5984.6
10°	4763.9	4667.9	4644.8	4677.9	4849.9	4935.9	5008.7	4988.8	4959.1	4899.5	4833.4
12.5°	4261.0	4191.6	4135.3	4055.9	4065.8	4148.6	4204.8	4158.5	4171.7	4184.9	4204.8
15°	3715.2	3665.5	3635.8	3516.7	3503.4	3559.7	3579.5	3606.0	3655.6	3658.9	3635.8
17.5°	3136.2	3093.2	3159.4	3225.5	3179.2	3182.5	3218.9	3242.1	3228.9	3169.3	3139.5
20°	2739.2	2785.6	2851.7	2914.6	2964.2	2994.0	3007.2	2970.8	2927.8	2805.4	2802.1
22.5°	2623.4	2683.0	2739.2	2835.2	2881.5	2957.6	2888.1	2805.4	2745.9	2686.3	2616.8
25°	2537.4	2587.1	2699.5	2735.9	2825.2	2888.1	2838.5	2755.8	2653.2	2567.2	2514.3
27.5°	2474.6	2530.8	2603.6	2702.8	2772.3	2808.7	2759.1	2726.0	2620.1	2517.6	2441.5
30°	2434.9	2494.4	2626.8	2709.5	2769.0	2798.8	2712.8	2673.1	2597.0	2511.0	2444.8
32.5°	2408.4	2461.3	2573.8	2679.7	2719.4	2719.4	2732.6	2686.3	2580.4	2434.9	2378.6
35°	2322.4	2395.2	2487.8	2610.2	2683.0	2726.0	2659.8	2606.9	2537.4	2388.6	2286.0
37.5°	2272.8	2322.4	2441.5	2557.3	2620.1	2666.5	2640.0	2547.4	2454.7	2332.3	2249.6
40°	2219.8	2299.2	2405.1	2514.3	2583.7	2630.1	2610.2	2501.0	2388.6	2272.8	2216.5
42.5°	2183.4	2236.4	2345.6	2468.0	2550.7	2640.0	2580.4	2444.8	2365.4	2206.6	2143.7
45°	2153.7	2239.7	2355.5	2405.1	2491.1	2583.7	2477.9	2395.2	2302.5	2186.8	2133.8
47.5°	2117.3	2196.7	2272.8	2405.1	2444.8	2487.8	2468.0	2335.6	2256.2	2130.5	2094.1
50°	2104.0	2133.8	2272.8	2345.6	2401.8	2444.8	2391.9	2292.6	2216.5	2087.5	2008.1
52.5°	2051.1	2107.4	2196.7	2292.6	2362.1	2415.0	2329.0	2266.2	2163.6	2028.0	1978.3
55°	1985.0	2018.0	2176.8	2276.1	2312.5	2348.9	2315.8	2213.2	2107.4	1968.4	1918.8
57.5°	1898.9	1975.0	2104.0	2243.0	2289.3	2309.2	2256.2	2173.5	2041.2	1918.8	1839.4
60°	1809.6	1889.0	2031.3	2143.7	2190.1	2262.8	2183.4	2133.8	1981.6	1846.0	1760.0
62.5°	1720.3	1809.6	1915.5	2057.7	2097.4	2127.2	2107.4	2037.9	1915.5	1763.3	1657.4
65°	1614.4	1680.6	1812.9	1885.7	1912.2	1981.6	1912.2	1885.7	1776.5	1631.0	1541.6
67.5°	1455.6	1511.9	1627.7	1697.1	1717.0	1746.8	1743.5	1713.7	1591.3	1492.0	1412.6
70°	1273.7	1323.3	1396.1	1478.8	1488.7	1525.1	1492.0	1485.4	1406.0	1270.4	1227.4
72.5°	1022.3	1068.6	1164.5	1200.9	1204.2	1217.4	1200.9	1177.7	1157.9	1015.6	972.6
75°	784.1	810.5	856.8	889.9	889.9	906.5	896.5	873.4	820.4	731.1	688.1
77.5°	545.9	572.3	631.9	651.7	648.4	655.0	625.3	602.1	522.7	476.4	440.0
80°	397.0	413.5	443.3	456.5	459.8	469.8	433.4	413.5	367.2	314.3	297.7
82.5°	287.8	297.7	301.1	317.6	317.6	301.1	291.1	271.3	238.2	205.1	191.9
85°	119.1	122.4	125.7	145.6	148.9	178.6	165.4	155.5	135.6	115.8	105.9
87.5°	29.8	33.1	43.0	36.4	43.0	43.0	46.3	52.9	52.9	43.0	43.0
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°	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9
2.5°	9021.6	9048.1	9385.5	9428.5	9593.9	9762.7	10103.4	10348.2	10546.7	10675.7	10712.1
5°	7635.5	7804.2	7959.7	8211.1	8439.4	8763.6	9137.4	9600.6	10182.8	10480.6	10599.6
7.5°	5978.0	6176.5	6401.5	6646.3	6980.4	7562.7	8062.2	8598.2	9342.5	9650.2	10116.6
10°	4879.7	5101.3	5399.1	5587.6	5991.2	6547.0	7129.3	7747.9	8459.2	8902.5	9441.8
12.5°	4314.0	4495.9	4770.5	5167.5	5468.5	5829.1	6262.5	7043.3	8062.2	8482.4	8852.9
15°	3688.7	3890.5	4208.1	4648.1	5008.7	5438.8	5925.1	6775.3	7860.4	8508.8	8823.1
17.5°	3172.6	3318.2	3652.3	4032.8	4446.3	4916.1	5614.1	6762.1	8072.1	8902.5	9415.3
20°	2815.3	2835.2	3017.1	3341.3	3903.7	4515.8	5422.2	6695.9	8750.3	9580.7	10229.1
22.5°	2590.4	2570.5	2573.8	2848.4	3242.1	4122.1	5121.2	6920.9	9521.2	10659.2	11095.9
25°	2477.9	2425.0	2391.9	2451.4	2808.7	3655.6	4892.9	7218.6	10351.5	11549.1	12085.1
27.5°	2418.3	2325.7	2259.5	2269.5	2530.8	3420.7	4750.7	7347.6	11175.3	12789.7	12978.3
30°	2395.2	2279.4	2183.4	2150.4	2322.4	3093.2	4446.3	7569.3	11913.0	13471.2	13633.3
32.5°	2312.5	2170.2	2077.6	2047.8	2117.3	2805.4	4227.9	7728.1	12564.8	14212.3	14156.0
35°	2216.5	2097.4	1981.6	1925.4	1975.0	2620.1	4052.6	7652.0	13332.3	14787.9	14758.1
37.5°	2206.6	2051.1	1955.2	1862.5	1859.2	2391.9	3814.4	7724.8	13821.9	15820.1	15413.2
40°	2120.6	2021.3	1895.6	1819.5	1776.5	2276.1	3582.8	7552.7	14539.8	16236.9	15836.6
42.5°	2123.9	1975.0	1865.9	1776.5	1733.5	2107.4	3424.0	7506.4	14791.2	16915.1	16035.1
45°	2071.0	1925.4	1832.8	1726.9	1703.8	1978.3	3271.9	7291.4	15234.5	16948.2	15787.0
47.5°	2018.0	1889.0	1789.8	1664.1	1611.1	1932.0	3152.8	7112.7	15002.9	16637.2	15442.9
50°	1981.6	1832.8	1740.1	1650.8	1501.9	1852.6	2997.3	7069.7	14678.7	16217.1	14804.4
52.5°	1918.8	1786.5	1690.5	1621.0	1382.9	1779.8	2937.7	7321.2	15075.7	15902.8	14619.2
55°	1859.2	1723.6	1601.2	1465.6	1283.6	1588.0	2772.3	7556.1	15654.7	16627.3	15459.5
57.5°	1796.4	1667.4	1535.0	1372.9	1187.7	1389.5	2600.3	7599.1	14569.6	15366.8	14675.4
60°	1713.7	1548.3	1449.0	1237.3	1085.1	1151.3	2061.0	6699.2	11301.0	12832.7	12855.9
62.5°	1621.0	1442.4	1356.4	1108.3	979.2	992.5	1680.6	5630.6	9167.2	10622.8	11254.7
65°	1498.6	1326.6	1224.1	1025.6	903.2	860.1	1230.7	4125.4	6963.9	8618.0	9335.9
67.5°	1339.8	1177.7	1048.7	893.2	807.2	737.7	840.3	2322.4	4112.2	5786.1	6004.5
70°	1171.1	1032.2	896.5	767.5	671.6	622.0	615.3	1028.9	1965.1	3113.1	3543.1
72.5°	923.0	823.8	714.6	618.6	555.8	483.0	440.0	426.8	665.0	1267.1	1750.1
75°	661.7	578.9	516.1	453.2	406.9	367.2	334.1	304.4	277.9	317.6	436.7
77.5°	416.8	387.1	337.4	320.9	294.4	284.5	271.3	254.7	234.9	221.7	221.7
80°	281.2	261.4	244.8	241.5	231.6	228.3	231.6	215.0	195.2	178.6	185.3
82.5°	188.6	185.3	182.0	178.6	182.0	185.3	191.9	188.6	172.0	162.1	165.4
85°	112.5	119.1	125.7	132.3	145.6	129.0	105.9	89.3	79.4	72.8	69.5
87.5°	43.0	59.5	52.9	49.6	52.9	49.6	46.3	43.0	36.4	33.1	33.1
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: P531358

CATALOG NUMBER: GALN-SA6C-827-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9	10129.9
2.5°	10953.6	11019.8	11076.0	11062.8	10947.0	10791.5	10728.7	10407.8	10341.6	10298.6
5°	11102.5	11486.3	11569.0	11519.3	11218.3	10837.8	10467.3	9997.5	9723.0	9713.0
7.5°	10827.9	11301.0	11449.9	11562.3	11162.1	10500.4	9865.2	9160.6	8988.5	9001.8
10°	10129.9	10884.2	11251.4	11367.2	10907.3	10335.0	9455.0	8740.4	8373.2	8366.6
12.5°	9742.8	10335.0	10437.5	10599.6	10464.0	9885.1	9216.8	8416.2	8058.9	8052.3
15°	9398.8	9789.1	9818.9	10047.2	10120.0	9729.6	9279.7	8426.1	8138.3	8108.5
17.5°	9699.8	9428.5	9316.0	9345.8	9560.9	9703.1	9643.6	8988.5	8694.1	8528.7
20°	9901.6	9296.2	8955.4	8988.5	9243.3	9762.7	10186.1	9802.4	9335.9	9355.7
22.5°	10440.9	9316.0	8783.4	8747.0	9150.6	10073.6	10798.1	10831.2	10381.3	10272.1
25°	11248.1	9544.3	8730.5	8720.6	9107.6	10407.8	11512.7	12048.7	11588.8	11387.0
27.5°	11896.5	9901.6	8895.9	8929.0	9243.3	10679.0	12121.4	12832.7	12482.0	12233.9
30°	12465.5	10272.1	9127.5	8975.3	9607.2	10821.3	12382.8	13725.9	13444.7	13239.6
32.5°	12700.4	10798.1	9494.7	9243.3	9908.2	10993.3	12925.4	14592.7	14351.2	13845.0
35°	13097.4	11092.6	9693.2	9673.3	10434.2	11406.9	13180.1	15165.0	15065.8	14615.9
37.5°	13415.0	11390.3	10397.8	10179.5	11155.4	12101.6	13590.3	15955.7	15727.4	15515.7
40°	13659.8	11922.9	11056.2	11344.0	12042.0	12733.5	13967.5	16005.3	16663.7	16048.3
42.5°	13434.8	12399.3	12138.0	12826.1	13487.8	13454.7	14010.5	16389.1	16882.0	16561.1
45°	13378.6	13206.6	13848.4	14473.6	14625.8	14053.5	13702.8	15965.6	16815.9	16673.6
47.5°	13242.9	14000.5	15118.7	16137.7	15906.1	14453.8	13335.6	15889.5	16855.6	16600.8
50°	13196.6	14172.6	16058.3	17050.7	16911.8	14801.1	13163.5	15399.9	16574.4	16551.2
52.5°	13193.3	14526.5	16448.6	17547.0	17633.0	15350.3	13398.4	15648.0	16792.7	16987.9
55°	13342.2	14414.1	16399.0	17272.4	17239.3	15105.5	13424.9	15813.5	17060.7	17252.5
57.5°	12584.6	12912.1	13534.1	14225.5	14046.8	12511.8	11989.1	14619.2	15658.0	15519.0
60°	10867.6	9842.1	9140.7	9107.6	8760.3	8280.6	9812.3	13047.8	13047.8	12912.1
62.5°	9517.8	6461.0	5551.3	5293.2	5541.3	6093.8	9464.9	12690.5	12329.9	12174.4
65°	8323.6	4932.6	4012.9	3940.1	4370.2	5203.9	8558.5	10811.4	10176.2	9660.1
67.5°	5356.1	3612.6	2984.0	2855.0	3374.4	3821.0	5696.8	6649.6	6249.3	6047.5
70°	3453.8	2352.2	1660.7	1558.2	1760.0	2355.5	3639.1	3877.3	3295.0	3159.4
72.5°	1634.3	1015.6	582.3	479.7	539.2	899.8	1439.1	1548.3	1286.9	1177.7
75°	519.4	373.8	238.2	205.1	195.2	231.6	330.8	254.7	185.3	182.0
77.5°	231.6	221.7	188.6	158.8	138.9	115.8	95.9	79.4	82.7	86.0
80°	191.9	175.3	155.5	138.9	115.8	89.3	69.5	52.9	52.9	56.2
82.5°	168.7	152.2	135.6	115.8	99.2	72.8	52.9	36.4	33.1	33.1
85°	72.8	86.0	92.6	99.2	79.4	59.5	36.4	23.2	19.8	19.8
87.5°	29.8	26.5	23.2	19.8	16.5	16.5	13.2	9.9	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)