

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: P533542

Luminaire Tested: **GALN-SA9A-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533542
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-SA9A-727-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 25822 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

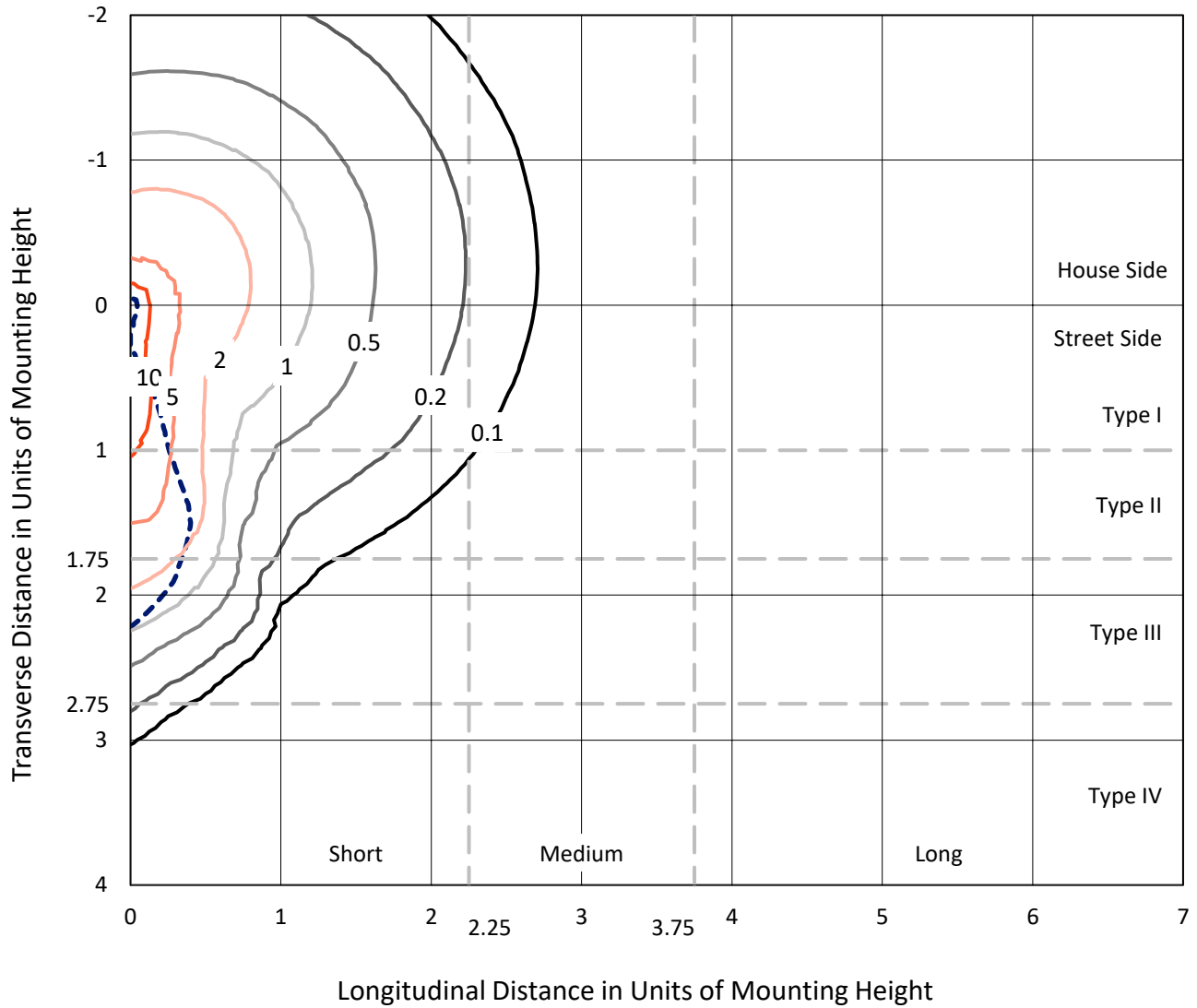
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533542
 CATALOG NUMBER: GALN-SA9A-727-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

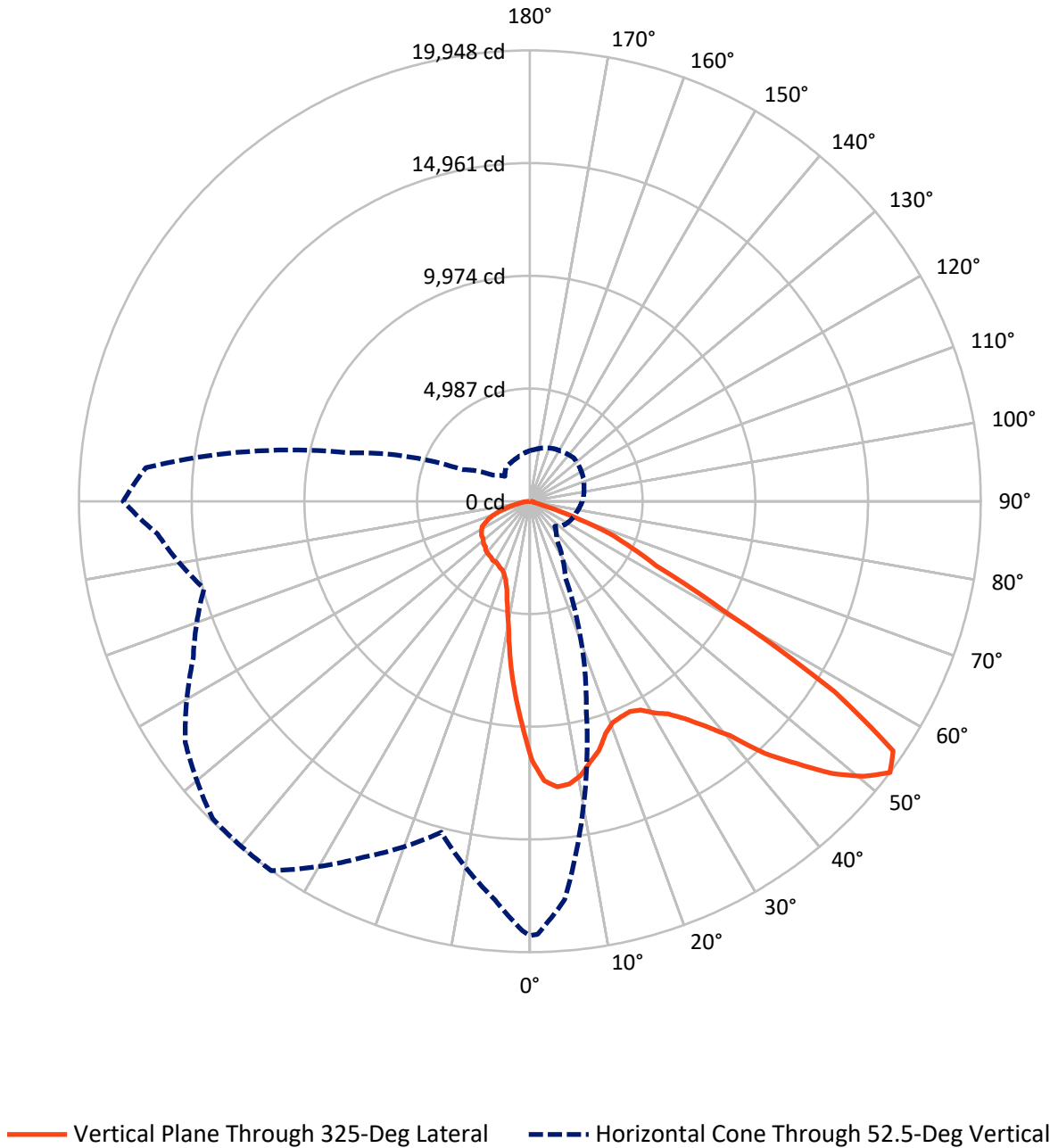
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type III - Short - N/A

REPORT NUMBER: P533542
CATALOG NUMBER: GALN-SA9A-727-U-SLR-GRSWH

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7784.3	0.0	7784.3
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	18037.8	0.0	18037.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	25822.0	0.0	25822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.3	3.4
10°-20°	1895.3	7.3
20°-30°	2863.7	11.1
30°-40°	4138.2	16.0
40°-50°	5507.2	21.3
50°-60°	6159.9	23.9
60°-70°	3471.7	13.4
70°-80°	773.9	3.0
80°-90°	137.8	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°	25822.0	100.0
0°-180°	25822.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533542

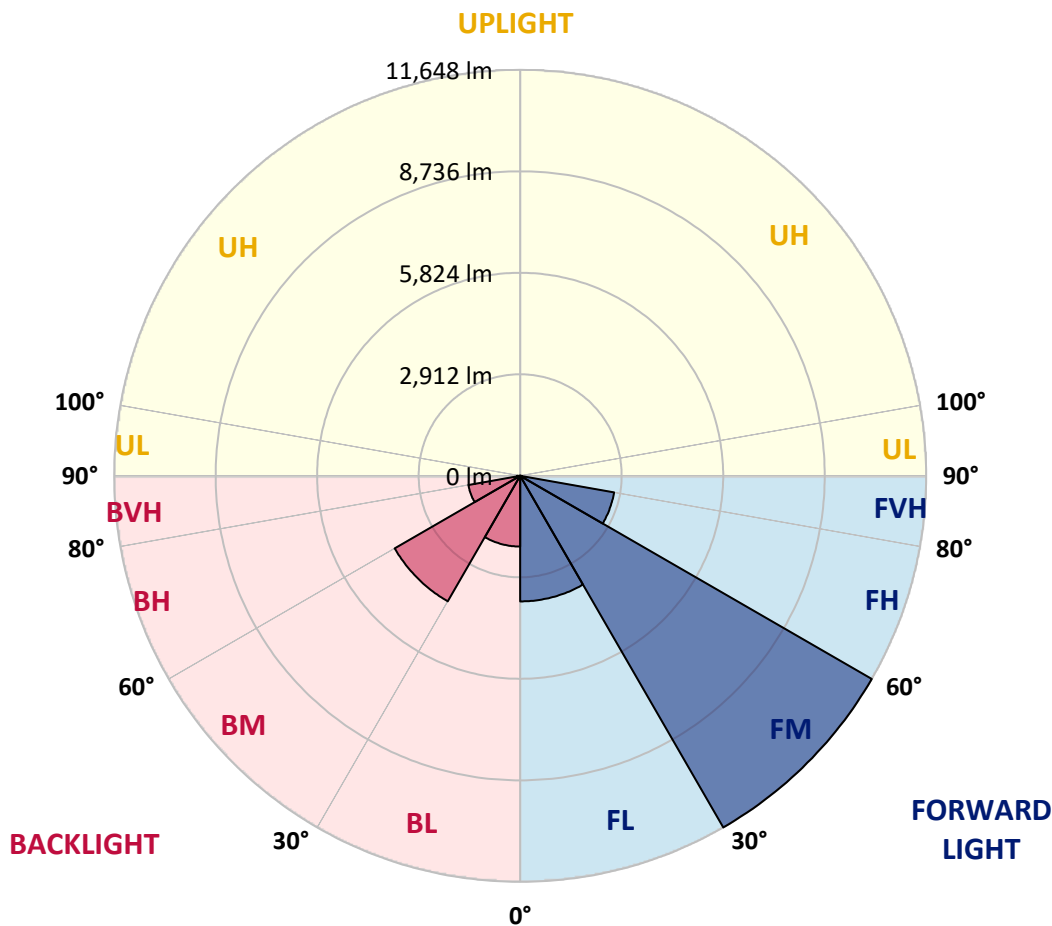
CATALOG NUMBER: GALN-SA9A-727-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3603.4	14.0			
FM (30°-60°)	11647.7	45.1			
FH (60°-80°)	2736.7	10.6			G2/5000
FVH (80°-90°)	49.9	0.2			G1/100
BL (0°-30°)	2029.9	7.9	B3/2500		
BM (30°-60°)	4157.6	16.1	B3/5000		
BH (60°-80°)	1508.8	5.8	B3/2500		G3/2500
BVH (80°-90°)	87.9	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





REPORT NUMBER: P533542

CATALOG NUMBER: GALN-SA9A-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0
2.5°	11650.8	11838.0	11635.9	11276.6	11022.1	10790.0	10546.8	10498.1	10180.0	10123.8	9891.8
5°	10988.4	10947.2	10700.2	10228.6	9708.4	9236.8	8888.8	8551.9	8323.6	8057.9	8039.2
7.5°	10183.7	9944.2	9802.0	9087.1	8443.4	7702.4	7384.2	6871.5	6710.6	6471.0	6347.5
10°	9465.1	9289.2	8956.1	8241.3	7343.1	6852.8	6512.2	6235.2	6048.1	5801.1	5490.5
12.5°	9109.6	9038.5	8664.2	7556.4	6890.2	6366.2	6126.7	5857.2	5539.1	5142.4	4988.9
15°	9173.2	8933.7	8649.2	7425.4	6504.7	5999.5	5617.7	5280.9	4872.9	4494.9	4274.1
17.5°	9648.5	9465.1	8896.3	7507.7	6358.7	5628.9	4936.5	4438.8	4072.0	3731.4	3578.0
20°	10584.2	10318.5	9678.5	7612.5	6044.4	5112.4	4319.0	3705.2	3312.2	3132.6	3080.2
22.5°	11620.9	11463.7	10442.0	7848.3	5793.6	4633.4	3664.0	3050.3	2904.3	2855.6	2952.9
25°	12882.2	12474.2	11628.4	8233.8	5599.0	4225.4	3110.1	2769.6	2694.7	2743.4	2855.6
27.5°	13840.3	13731.7	12459.2	8596.8	5333.3	3735.2	2799.5	2574.9	2597.4	2646.0	2750.8
30°	14978.0	14427.9	13263.9	8847.6	5093.7	3398.3	2582.4	2522.5	2545.0	2627.3	2679.7
32.5°	15662.9	15457.1	13769.2	9225.6	4816.8	3106.4	2414.0	2357.9	2391.5	2515.1	2638.6
35°	16535.0	16127.0	14394.2	9322.9	4622.2	2990.4	2294.2	2253.1	2331.7	2417.7	2556.2
37.5°	17553.0	17272.3	15258.7	9255.5	4517.4	2870.6	2193.2	2174.5	2230.6	2350.4	2511.3
40°	18155.5	18069.5	15711.6	9296.7	4352.7	2765.8	2077.2	2099.6	2215.6	2309.2	2466.4
42.5°	18735.7	18174.3	16381.5	9281.7	4247.9	2623.6	2088.4	2062.2	2152.0	2260.6	2410.3
45°	18862.9	18305.3	16538.7	9177.0	4120.6	2485.1	2002.3	2013.5	2122.1	2256.8	2354.1
47.5°	18780.6	18368.9	16830.7	9147.0	4000.9	2387.8	1875.1	2009.8	2073.4	2182.0	2320.4
50°	18724.4	18702.0	17077.7	9289.2	3839.9	2234.4	1721.6	1961.1	2024.8	2133.3	2283.0
52.5°	19218.5	19169.8	17695.2	9663.5	3712.7	2069.7	1564.4	1837.6	1991.1	2095.9	2241.8
55°	19517.9	19304.5	18754.4	10123.8	3499.4	1852.6	1455.9	1684.2	1908.7	2002.3	2152.0
57.5°	17556.7	17410.8	16965.4	9450.2	3140.1	1568.2	1321.2	1527.0	1796.5	1942.4	2095.9
60°	14607.5	14379.2	13237.7	8031.7	2316.7	1220.1	1238.8	1403.5	1766.5	1822.7	2002.3
62.5°	13772.9	13207.8	11654.6	6463.5	1777.8	1047.9	1111.6	1291.2	1609.3	1702.9	1882.5
65°	10928.5	10509.3	8338.6	4667.1	1190.2	909.5	1014.3	1164.0	1388.5	1571.9	1736.6
67.5°	6841.5	6441.1	4450.0	2208.2	830.9	778.5	905.7	1062.9	1246.3	1411.0	1594.4
70°	3574.2	3136.3	2054.7	797.2	572.6	636.2	756.0	905.7	1085.4	1220.1	1362.3
72.5°	1332.4	1081.6	669.9	344.3	396.7	486.5	613.8	722.3	849.6	1014.3	1092.9
75°	205.8	175.9	172.2	209.6	269.5	351.8	437.9	546.4	658.7	763.5	815.9
77.5°	97.3	93.6	104.8	138.5	179.6	250.8	318.1	422.9	512.7	580.1	610.1
80°	63.6	59.9	67.4	93.6	134.7	187.1	254.5	325.6	407.9	464.1	456.6
82.5°	37.4	41.2	41.2	63.6	93.6	134.7	183.4	247.0	303.2	351.8	321.9
85°	22.5	18.7	18.7	37.4	63.6	108.5	153.4	104.8	108.5	108.5	123.5
87.5°	7.5	7.5	7.5	3.7	7.5	7.5	11.2	18.7	22.5	26.2	33.7
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: P533542

CATALOG NUMBER: GALN-SA9A-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0
2.5°	9884.3	10000.3	9959.2	9813.2	9925.5	9944.2	9869.3	10127.6	10176.2	10097.6	10120.1
5°	8013.0	8042.9	8110.3	8252.5	8353.6	8473.3	8473.3	8480.8	8379.8	8634.3	8559.4
7.5°	6242.7	6261.4	6340.0	6643.2	6729.3	6957.6	7054.9	6987.5	6785.4	6699.3	6770.4
10°	5389.4	5280.9	5254.7	5292.1	5486.7	5584.0	5666.4	5643.9	5610.2	5542.8	5468.0
12.5°	4820.5	4741.9	4678.3	4588.5	4599.7	4693.3	4756.9	4704.5	4719.5	4734.4	4756.9
15°	4203.0	4146.8	4113.2	3978.4	3963.5	4027.1	4049.5	4079.5	4135.6	4139.4	4113.2
17.5°	3548.0	3499.4	3574.2	3649.1	3596.7	3600.4	3641.6	3667.8	3652.8	3585.4	3551.8
20°	3098.9	3151.3	3226.2	3297.3	3353.4	3387.1	3402.1	3360.9	3312.2	3173.8	3170.0
22.5°	2967.9	3035.3	3098.9	3207.4	3259.8	3345.9	3267.3	3173.8	3106.4	3039.0	2960.4
25°	2870.6	2926.7	3054.0	3095.2	3196.2	3267.3	3211.2	3117.6	3001.6	2904.3	2844.4
27.5°	2799.5	2863.1	2945.5	3057.7	3136.3	3177.5	3121.4	3083.9	2964.2	2848.1	2762.1
30°	2754.6	2822.0	2971.7	3065.2	3132.6	3166.3	3069.0	3024.1	2938.0	2840.7	2765.8
32.5°	2724.6	2784.5	2911.8	3031.5	3076.4	3076.4	3091.4	3039.0	2919.3	2754.6	2691.0
35°	2627.3	2709.7	2814.5	2952.9	3035.3	3083.9	3009.1	2949.2	2870.6	2702.2	2586.2
37.5°	2571.2	2627.3	2762.1	2893.1	2964.2	3016.6	2986.6	2881.8	2777.0	2638.6	2545.0
40°	2511.3	2601.1	2720.9	2844.4	2923.0	2975.4	2952.9	2829.4	2702.2	2571.2	2507.6
42.5°	2470.1	2530.0	2653.5	2792.0	2885.6	2986.6	2919.3	2765.8	2676.0	2496.3	2425.2
45°	2436.5	2533.8	2664.8	2720.9	2818.2	2923.0	2803.2	2709.7	2604.9	2473.9	2414.0
47.5°	2395.3	2485.1	2571.2	2720.9	2765.8	2814.5	2792.0	2642.3	2552.5	2410.3	2369.1
50°	2380.3	2414.0	2571.2	2653.5	2717.2	2765.8	2705.9	2593.6	2507.6	2361.6	2271.8
52.5°	2320.4	2384.1	2485.1	2593.6	2672.2	2732.1	2634.8	2563.7	2447.7	2294.2	2238.1
55°	2245.6	2283.0	2462.7	2574.9	2616.1	2657.3	2619.8	2503.8	2384.1	2226.9	2170.7
57.5°	2148.3	2234.4	2380.3	2537.5	2589.9	2612.4	2552.5	2458.9	2309.2	2170.7	2080.9
60°	2047.2	2137.0	2298.0	2425.2	2477.6	2560.0	2470.1	2414.0	2241.8	2088.4	1991.1
62.5°	1946.2	2047.2	2167.0	2327.9	2372.8	2406.5	2384.1	2305.5	2167.0	1994.8	1875.1
65°	1826.4	1901.3	2051.0	2133.3	2163.2	2241.8	2163.2	2133.3	2009.8	1845.1	1744.1
67.5°	1646.8	1710.4	1841.4	1920.0	1942.4	1976.1	1972.4	1938.7	1800.2	1687.9	1598.1
70°	1440.9	1497.1	1579.4	1673.0	1684.2	1725.4	1687.9	1680.4	1590.6	1437.2	1388.5
72.5°	1156.5	1208.9	1317.4	1358.6	1362.3	1377.3	1358.6	1332.4	1309.9	1149.0	1100.3
75°	887.0	916.9	969.3	1006.8	1006.8	1025.5	1014.3	988.1	928.2	827.1	778.5
77.5°	617.5	647.5	714.8	737.3	733.6	741.0	707.4	681.2	591.3	538.9	497.8
80°	449.1	467.8	501.5	516.5	520.2	531.5	490.3	467.8	415.4	355.6	336.8
82.5°	325.6	336.8	340.6	359.3	359.3	340.6	329.4	306.9	269.5	232.0	217.1
85°	134.7	138.5	142.2	164.7	168.4	202.1	187.1	175.9	153.4	131.0	119.8
87.5°	33.7	37.4	48.7	41.2	48.7	48.7	52.4	59.9	59.9	48.7	48.7
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: P533542

CATALOG NUMBER: GALN-SA9A-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0
2.5°	10206.2	10236.1	10617.9	10666.5	10853.7	11044.5	11430.0	11707.0	11931.5	12077.5	12118.7
5°	8638.0	8828.9	9004.8	9289.2	9547.5	9914.3	10337.2	10861.1	11519.8	11856.7	11991.4
7.5°	6762.9	6987.5	7242.0	7519.0	7897.0	8555.7	9120.8	9727.1	10569.2	10917.3	11445.0
10°	5520.4	5771.2	6108.0	6321.3	6777.9	7406.7	8065.4	8765.3	9569.9	10071.4	10681.5
12.5°	4880.4	5086.2	5396.9	5846.0	6186.6	6594.5	7084.8	7968.1	9120.8	9596.1	10015.3
15°	4173.0	4401.3	4760.6	5258.4	5666.4	6152.9	6703.1	7664.9	8892.5	9626.1	9981.6
17.5°	3589.2	3753.9	4131.9	4562.3	5030.1	5561.6	6351.3	7650.0	9132.0	10071.4	10651.6
20°	3185.0	3207.4	3413.3	3780.1	4416.3	5108.7	6134.2	7575.1	9899.3	10838.7	11572.2
22.5°	2930.5	2908.0	2911.8	3222.4	3667.8	4663.3	5793.6	7829.6	10771.3	12058.8	12552.8
25°	2803.2	2743.4	2705.9	2773.3	3177.5	4135.6	5535.4	8166.4	11710.7	13065.6	13671.9
27.5°	2735.9	2631.1	2556.2	2567.5	2863.1	3869.9	5374.4	8312.4	12642.6	14469.0	14682.4
30°	2709.7	2578.7	2470.1	2432.7	2627.3	3499.4	5030.1	8563.2	13477.2	15240.0	15423.4
32.5°	2616.1	2455.2	2350.4	2316.7	2395.3	3173.8	4783.1	8742.8	14214.5	16078.4	16014.8
35°	2507.6	2372.8	2241.8	2178.2	2234.4	2964.2	4584.7	8656.7	15082.8	16729.6	16695.9
37.5°	2496.3	2320.4	2211.9	2107.1	2103.4	2705.9	4315.3	8739.1	15636.7	17897.3	17437.0
40°	2399.0	2286.8	2144.5	2058.5	2009.8	2574.9	4053.3	8544.4	16448.9	18368.9	17916.0
42.5°	2402.8	2234.4	2110.8	2009.8	1961.1	2384.1	3873.6	8492.0	16733.3	19136.1	18140.6
45°	2342.9	2178.2	2073.4	1953.7	1927.5	2238.1	3701.5	8248.8	17234.9	19173.5	17859.9
47.5°	2283.0	2137.0	2024.8	1882.5	1822.7	2185.7	3566.7	8046.7	16972.9	18821.7	17470.6
50°	2241.8	2073.4	1968.6	1867.6	1699.2	2095.9	3390.8	7998.0	16606.1	18346.4	16748.3
52.5°	2170.7	2021.0	1912.5	1833.9	1564.4	2013.5	3323.5	8282.5	17055.2	17990.9	16538.7
55°	2103.4	1949.9	1811.4	1658.0	1452.1	1796.5	3136.3	8548.2	17710.2	18810.5	17489.4
57.5°	2032.3	1886.3	1736.6	1553.2	1343.6	1571.9	2941.7	8596.8	16482.6	17384.6	16602.3
60°	1938.7	1751.6	1639.3	1399.7	1227.6	1302.4	2331.7	7578.8	12784.9	14517.7	14543.9
62.5°	1833.9	1631.8	1534.5	1253.8	1107.8	1122.8	1901.3	6370.0	10370.9	12017.6	12732.5
65°	1695.4	1500.8	1384.8	1160.2	1021.7	973.1	1392.3	4667.1	7878.3	9749.6	10561.7
67.5°	1515.8	1332.4	1186.4	1010.5	913.2	834.6	950.6	2627.3	4652.1	6545.9	6792.9
70°	1324.9	1167.7	1014.3	868.3	759.8	703.6	696.1	1164.0	2223.1	3521.8	4008.4
72.5°	1044.2	931.9	808.4	699.9	628.8	546.4	497.8	482.8	752.3	1433.4	1979.9
75°	748.5	655.0	583.9	512.7	460.3	415.4	378.0	344.3	314.4	359.3	494.0
77.5°	471.6	437.9	381.7	363.0	333.1	321.9	306.9	288.2	265.7	250.8	250.8
80°	318.1	295.7	277.0	273.2	262.0	258.2	262.0	243.3	220.8	202.1	209.6
82.5°	213.3	209.6	205.8	202.1	205.8	209.6	217.1	213.3	194.6	183.4	187.1
85°	127.2	134.7	142.2	149.7	164.7	146.0	119.8	101.1	89.8	82.3	78.6
87.5°	48.7	67.4	59.9	56.1	59.9	56.1	52.4	48.7	41.2	37.4	37.4
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: P533542

CATALOG NUMBER: GALN-SA9A-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0	11460.0
2.5°	12391.9	12466.7	12530.4	12515.4	12384.4	12208.5	12137.4	11774.3	11699.5	11650.8
5°	12560.3	12994.4	13088.0	13031.9	12691.3	12260.9	11841.7	11310.3	10999.6	10988.4
7.5°	12249.7	12784.9	12953.3	13080.5	12627.7	11879.1	11160.6	10363.4	10168.8	10183.7
10°	11460.0	12313.3	12728.7	12859.7	12339.5	11692.0	10696.5	9888.1	9472.6	9465.1
12.5°	11022.1	11692.0	11808.0	11991.4	11838.0	11183.0	10427.0	9521.3	9117.1	9109.6
15°	10632.8	11074.5	11108.2	11366.4	11448.7	11007.1	10498.1	9532.5	9206.9	9173.2
17.5°	10973.4	10666.5	10539.3	10573.0	10816.2	10977.2	10909.8	10168.8	9835.7	9648.5
20°	11201.7	10516.8	10131.3	10168.8	10456.9	11044.5	11523.6	11089.4	10561.7	10584.2
22.5°	11811.8	10539.3	9936.7	9895.5	10352.1	11396.3	12216.0	12253.4	11744.4	11620.9
25°	12725.0	10797.5	9876.8	9865.6	10303.5	11774.3	13024.4	13630.7	13110.5	12882.2
27.5°	13458.5	11201.7	10064.0	10101.4	10456.9	12081.2	13713.0	14517.7	14121.0	13840.3
30°	14102.3	11620.9	10325.9	10153.8	10868.6	12242.2	14008.7	15528.2	15210.1	14978.0
32.5°	14368.0	12216.0	10741.4	10456.9	11209.2	12436.8	14622.5	16508.8	16235.6	15662.9
35°	14817.1	12549.1	10965.9	10943.5	11804.3	12904.6	14910.7	17156.3	17044.0	16535.0
37.5°	15176.4	12885.9	11763.1	11516.1	12620.2	13690.6	15374.8	18050.8	17792.5	17553.0
40°	15453.4	13488.5	12507.9	12833.5	13623.2	14405.4	15801.4	18106.9	18851.7	18155.5
42.5°	15198.9	14027.4	13731.7	14510.2	15258.7	15221.3	15850.1	18541.0	19098.7	18735.7
45°	15135.2	14940.6	15666.7	16374.0	16546.2	15898.7	15502.0	18062.0	19023.8	18862.9
47.5°	14981.8	15838.9	17103.9	18256.6	17994.6	16351.6	15086.6	17975.9	19068.7	18780.6
50°	14929.4	16033.5	18166.8	19289.6	19132.4	16744.6	14892.0	17422.0	18750.6	18724.4
52.5°	14925.6	16433.9	18608.4	19851.0	19948.3	17365.8	15157.7	17702.7	18997.6	19218.5
55°	15094.1	16306.7	18552.3	19540.3	19502.9	17088.9	15187.6	17889.8	19300.8	19517.9
57.5°	14237.0	14607.5	15311.1	16093.4	15891.2	14154.7	13563.3	16538.7	17713.9	17556.7
60°	12294.6	11134.4	10340.9	10303.5	9910.5	9367.8	11100.7	14761.0	14761.0	14607.5
62.5°	10767.6	7309.4	6280.1	5988.2	6268.9	6893.9	10707.7	14356.8	13948.8	13772.9
65°	9416.5	5580.3	4539.8	4457.5	4944.0	5887.2	9682.2	12230.9	11512.4	10928.5
67.5°	6059.3	4087.0	3375.9	3229.9	3817.5	4322.7	6444.8	7522.7	7069.8	6841.5
70°	3907.3	2661.0	1878.8	1762.8	1991.1	2664.8	4116.9	4386.4	3727.7	3574.2
72.5°	1848.9	1149.0	658.7	542.7	610.1	1018.0	1628.0	1751.6	1455.9	1332.4
75°	587.6	422.9	269.5	232.0	220.8	262.0	374.3	288.2	209.6	205.8
77.5°	262.0	250.8	213.3	179.6	157.2	131.0	108.5	89.8	93.6	97.3
80°	217.1	198.4	175.9	157.2	131.0	101.1	78.6	59.9	59.9	63.6
82.5°	190.9	172.2	153.4	131.0	112.3	82.3	59.9	41.2	37.4	37.4
85°	82.3	97.3	104.8	112.3	89.8	67.4	41.2	26.2	22.5	22.5
87.5°	33.7	29.9	26.2	22.5	18.7	18.7	15.0	11.2	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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