

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: P530578

Luminaire Tested: **GALN-SA5D-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530578
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-SA5D-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 28853 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

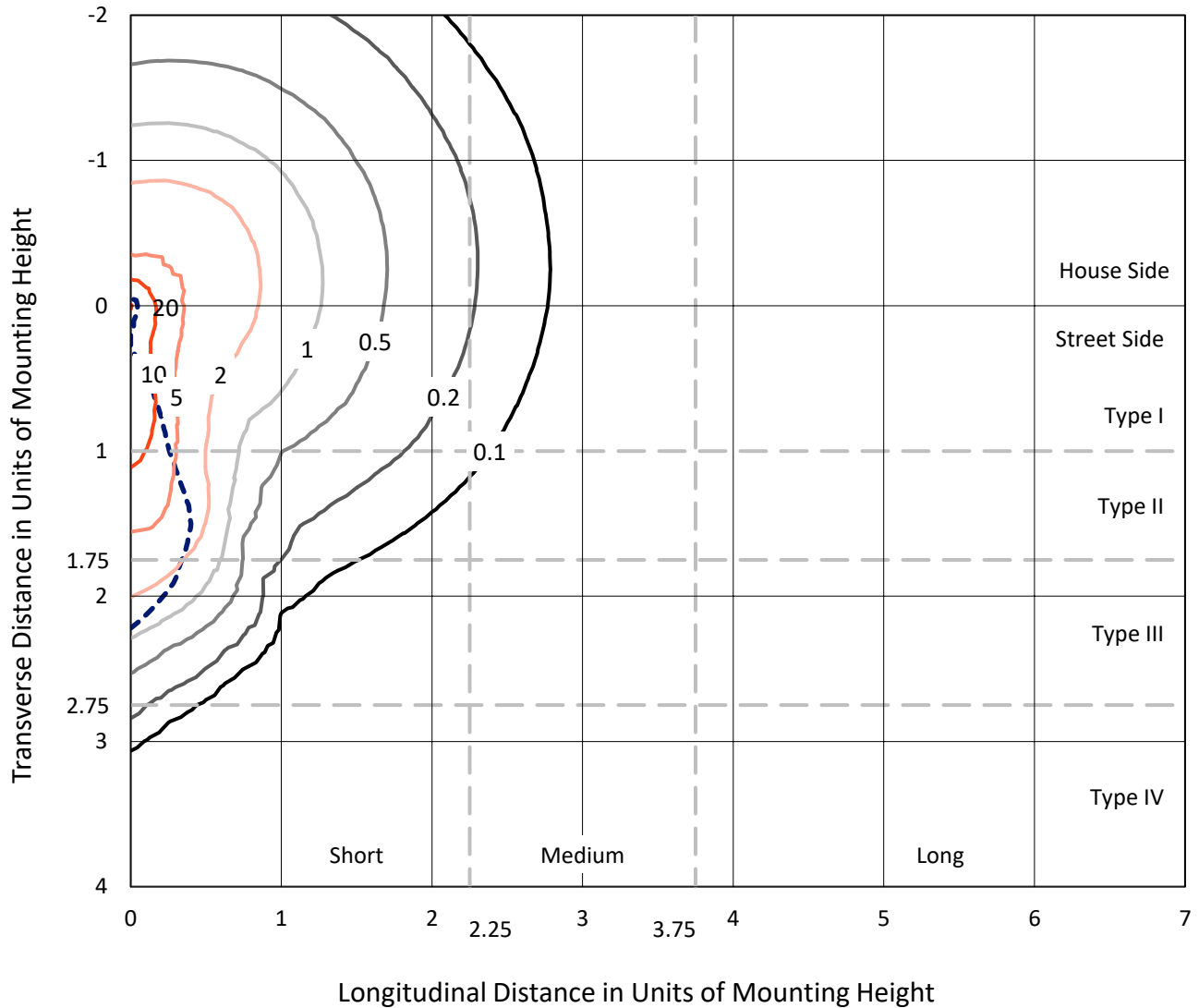
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

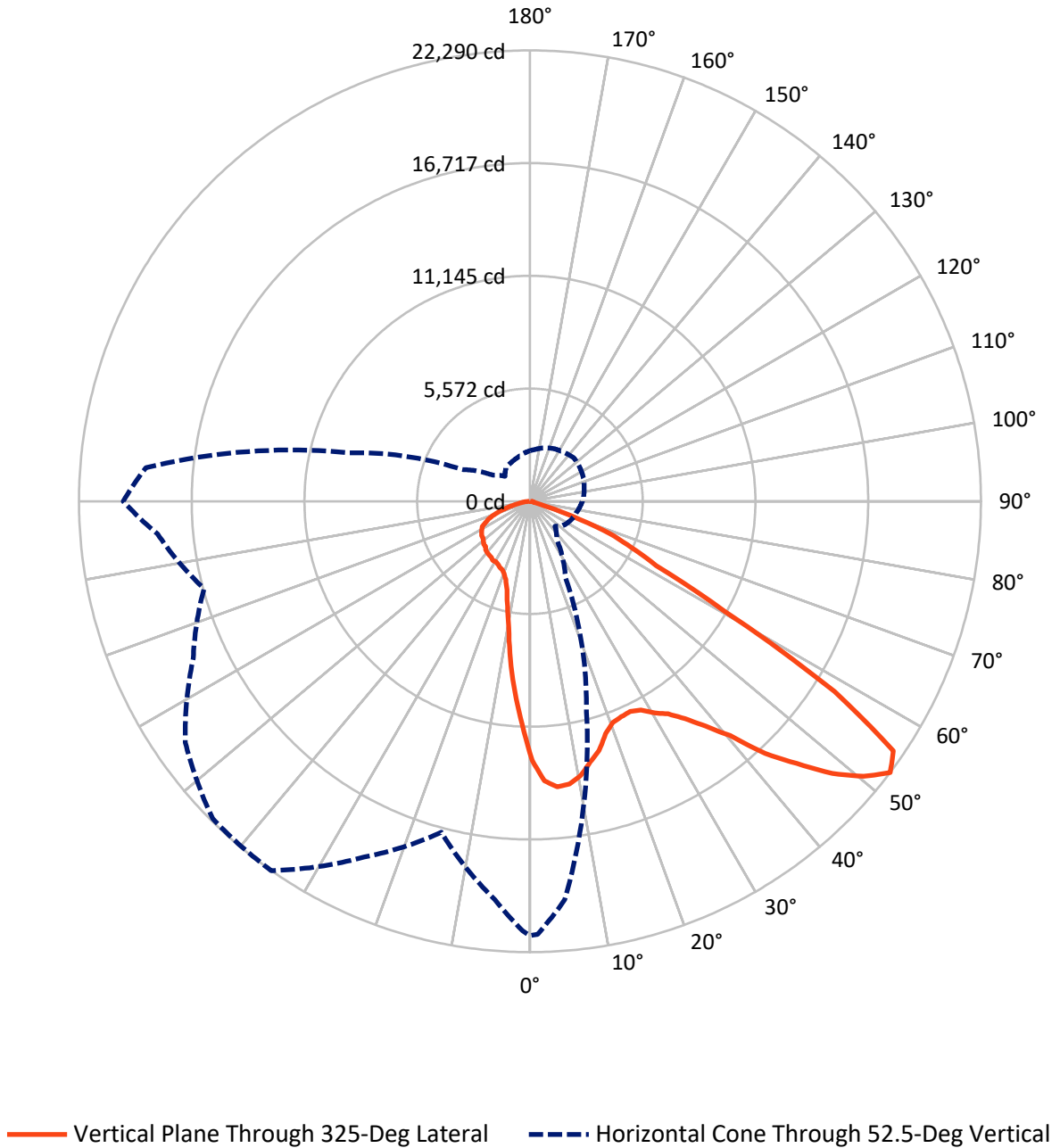
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 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	8698.0	0.0	8698.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	20155.0	0.0	20155.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	28853.0	0.0	28853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	976.9	3.4
10°-20°	2117.8	7.3
20°-30°	3199.8	11.1
30°-40°	4623.9	16.0
40°-50°	6153.6	21.3
50°-60°	6883.0	23.9
60°-70°	3879.2	13.4
70°-80°	864.7	3.0
80°-90°	154.0	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°	28853.0	100.0
0°-180°	28853.0	100.0

Coefficient of Utilization



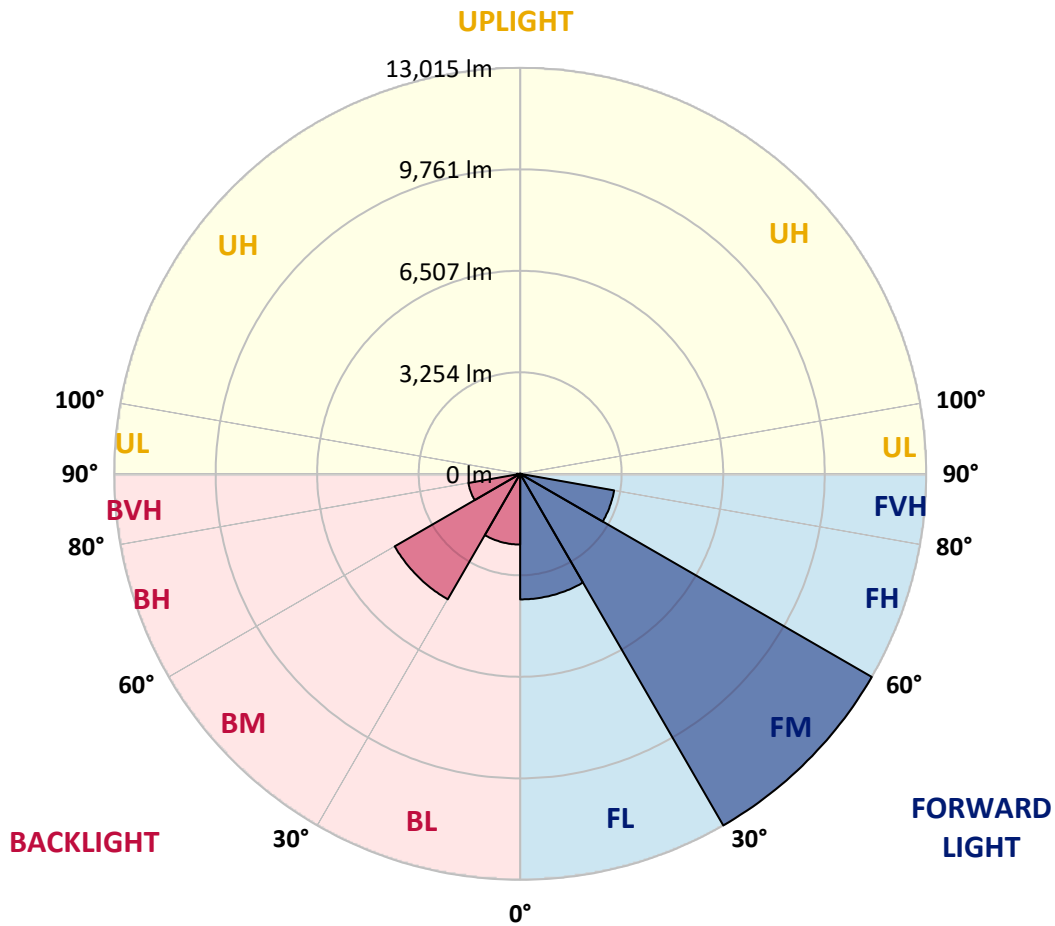
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4026.4	14.0			
FM (30°-60°)	13014.9	45.1			
FH (60°-80°)	3058.0	10.6			G2/5000
FVH (80°-90°)	55.8	0.2			G1/100
BL (0°-30°)	2268.2	7.9	B3/2500		
BM (30°-60°)	4645.6	16.1	B3/5000		
BH (60°-80°)	1685.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	98.2	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°	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1
2.5°	13018.4	13227.5	13001.7	12600.2	12315.9	12056.6	11784.7	11730.4	11374.9	11312.2	11052.9
5°	12278.2	12232.2	11956.2	11429.3	10848.0	10321.1	9932.1	9555.8	9300.7	9003.7	8982.8
7.5°	11379.1	11111.4	10952.5	10153.8	9434.5	8606.5	8251.0	7678.1	7498.2	7230.6	7092.6
10°	10576.2	10379.6	10007.4	9208.7	8205.0	7657.2	7276.6	6967.1	6758.0	6482.0	6134.9
12.5°	10178.9	10099.4	9681.2	8443.4	7699.0	7113.5	6845.9	6544.8	6189.3	5746.0	5574.5
15°	10250.0	9982.3	9664.5	8297.0	7268.2	6703.7	6277.1	5900.7	5444.9	5022.5	4775.8
17.5°	10781.1	10576.2	9940.5	8389.0	7105.1	6289.7	5516.0	4959.8	4550.0	4169.4	3997.9
20°	11826.6	11529.6	10814.5	8506.1	6753.9	5712.5	4826.0	4140.1	3701.0	3500.3	3441.7
22.5°	12985.0	12809.3	11667.6	8769.6	6473.7	5177.3	4094.1	3408.3	3245.2	3190.8	3299.6
25°	14394.3	13938.4	12993.3	9200.3	6256.2	4721.4	3475.2	3094.6	3011.0	3065.4	3190.8
27.5°	15464.9	15343.6	13921.7	9605.9	5959.3	4173.6	3128.1	2877.2	2902.3	2956.6	3073.7
30°	16736.2	16121.4	14820.8	9886.1	5691.6	3797.2	2885.5	2818.6	2843.7	2935.7	2994.3
32.5°	17501.5	17271.5	15385.4	10308.5	5382.2	3471.0	2697.4	2634.6	2672.3	2810.3	2948.3
35°	18475.9	18020.0	16083.8	10417.2	5164.7	3341.4	2563.5	2517.5	2605.4	2701.5	2856.3
37.5°	19613.4	19299.7	17049.8	10342.0	5047.6	3207.6	2450.6	2429.7	2492.4	2626.3	2806.1
40°	20286.7	20190.5	17555.8	10388.0	4863.6	3090.5	2321.0	2346.1	2475.7	2580.3	2755.9
42.5°	20934.9	20307.6	18304.4	10371.2	4746.5	2931.5	2333.5	2304.3	2404.6	2525.9	2693.2
45°	21077.0	20453.9	18480.0	10254.1	4604.3	2776.8	2237.3	2249.9	2371.2	2521.7	2630.4
47.5°	20985.0	20525.0	18806.2	10220.7	4470.5	2668.1	2095.2	2245.7	2316.8	2438.1	2592.8
50°	20922.3	20897.2	19082.2	10379.6	4290.7	2496.6	1923.7	2191.3	2262.4	2383.7	2551.0
52.5°	21474.3	21420.0	19772.3	10797.8	4148.5	2312.6	1748.1	2053.3	2224.8	2341.9	2505.0
55°	21808.9	21570.5	20955.8	11312.2	3910.1	2070.1	1626.8	1881.9	2132.8	2237.3	2404.6
57.5°	19617.5	19454.4	18956.8	10559.4	3508.7	1752.2	1476.2	1706.2	2007.3	2170.4	2341.9
60°	16322.2	16067.1	14791.6	8974.5	2588.6	1363.3	1384.2	1568.2	1973.9	2036.6	2237.3
62.5°	15389.6	14758.1	13022.6	7222.2	1986.4	1170.9	1242.0	1442.8	1798.2	1902.8	2103.5
65°	12211.3	11742.9	9317.4	5214.9	1329.9	1016.2	1133.3	1300.6	1551.5	1756.4	1940.4
67.5°	7644.6	7197.1	4972.3	2467.4	928.4	869.8	1012.0	1187.7	1392.6	1576.6	1781.5
70°	3993.8	3504.5	2295.9	890.8	639.8	710.9	844.8	1012.0	1212.8	1363.3	1522.2
72.5°	1488.8	1208.6	748.6	384.7	443.3	543.7	685.8	807.1	949.3	1133.3	1221.1
75°	230.0	196.6	192.4	234.2	301.1	393.1	489.3	610.6	736.0	853.1	911.7
77.5°	108.7	104.5	117.1	154.7	200.7	280.2	355.5	472.6	572.9	648.2	681.7
80°	71.1	66.9	75.3	104.5	150.6	209.1	284.4	363.8	455.8	518.6	510.2
82.5°	41.8	46.0	46.0	71.1	104.5	150.6	204.9	276.0	338.7	393.1	359.6
85°	25.1	20.9	20.9	41.8	71.1	121.3	171.5	117.1	121.3	121.3	138.0
87.5°	8.4	8.4	8.4	4.2	8.4	8.4	12.5	20.9	25.1	29.3	37.6
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°	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1
2.5°	11044.5	11174.2	11128.2	10965.1	11090.5	11111.4	11027.8	11316.4	11370.7	11282.9	11308.0
5°	8953.6	8987.0	9062.3	9221.2	9334.1	9467.9	9467.9	9476.3	9363.4	9647.8	9564.1
7.5°	6975.5	6996.4	7084.2	7423.0	7519.2	7774.2	7883.0	7807.7	7581.9	7485.7	7565.2
10°	6022.0	5900.7	5871.5	5913.3	6130.7	6239.5	6331.5	6306.4	6268.7	6193.5	6109.8
12.5°	5386.4	5298.5	5227.4	5127.1	5139.6	5244.2	5315.3	5256.7	5273.4	5290.2	5315.3
15°	4696.3	4633.6	4596.0	4445.4	4428.7	4499.8	4524.9	4558.3	4621.1	4625.2	4596.0
17.5°	3964.5	3910.1	3993.8	4077.4	4018.9	4023.0	4069.0	4098.3	4081.6	4006.3	3968.7
20°	3462.7	3521.2	3604.8	3684.3	3747.0	3784.7	3801.4	3755.4	3701.0	3546.3	3542.1
22.5°	3316.3	3391.6	3462.7	3583.9	3642.5	3738.7	3650.8	3546.3	3471.0	3395.7	3307.9
25°	3207.6	3270.3	3412.5	3458.5	3571.4	3650.8	3588.1	3483.6	3353.9	3245.2	3178.3
27.5°	3128.1	3199.2	3291.2	3416.7	3504.5	3550.5	3487.7	3445.9	3312.1	3182.5	3086.3
30°	3077.9	3153.2	3320.5	3425.0	3500.3	3537.9	3429.2	3379.0	3282.8	3174.1	3090.5
32.5°	3044.5	3111.4	3253.6	3387.4	3437.6	3437.6	3454.3	3395.7	3261.9	3077.9	3006.8
35°	2935.7	3027.7	3144.8	3299.6	3391.6	3445.9	3362.3	3295.4	3207.6	3019.4	2889.7
37.5°	2873.0	2935.7	3086.3	3232.6	3312.1	3370.7	3337.2	3220.1	3103.0	2948.3	2843.7
40°	2806.1	2906.5	3040.3	3178.3	3266.1	3324.7	3299.6	3161.6	3019.4	2873.0	2801.9
42.5°	2760.1	2827.0	2965.0	3119.7	3224.3	3337.2	3261.9	3090.5	2990.1	2789.4	2709.9
45°	2722.5	2831.2	2977.6	3040.3	3149.0	3266.1	3132.3	3027.7	2910.6	2764.3	2697.4
47.5°	2676.4	2776.8	2873.0	3040.3	3090.5	3144.8	3119.7	2952.5	2852.1	2693.2	2647.2
50°	2659.7	2697.4	2873.0	2965.0	3036.1	3090.5	3023.6	2898.1	2801.9	2638.8	2538.4
52.5°	2592.8	2663.9	2776.8	2898.1	2985.9	3052.8	2944.1	2864.6	2735.0	2563.5	2500.8
55°	2509.2	2551.0	2751.7	2877.2	2923.2	2969.2	2927.4	2797.7	2663.9	2488.3	2425.5
57.5°	2400.4	2496.6	2659.7	2835.4	2893.9	2919.0	2852.1	2747.5	2580.3	2425.5	2325.2
60°	2287.5	2387.9	2567.7	2709.9	2768.5	2860.5	2760.1	2697.4	2505.0	2333.5	2224.8
62.5°	2174.6	2287.5	2421.4	2601.2	2651.4	2689.0	2663.9	2576.1	2421.4	2229.0	2095.2
65°	2040.8	2124.4	2291.7	2383.7	2417.2	2505.0	2417.2	2383.7	2245.7	2061.7	1948.8
67.5°	1840.1	1911.2	2057.5	2145.3	2170.4	2208.1	2203.9	2166.3	2011.5	1886.1	1785.7
70°	1610.1	1672.8	1764.8	1869.3	1881.9	1927.9	1886.1	1877.7	1777.3	1605.9	1551.5
72.5°	1292.2	1350.8	1472.0	1518.0	1522.2	1539.0	1518.0	1488.8	1463.7	1283.9	1229.5
75°	991.1	1024.6	1083.1	1124.9	1124.9	1145.9	1133.3	1104.0	1037.1	924.2	869.8
77.5°	690.0	723.5	798.8	823.8	819.7	828.0	790.4	761.1	660.7	602.2	556.2
80°	501.8	522.7	560.4	577.1	581.3	593.8	547.8	522.7	464.2	397.3	376.4
82.5°	363.8	376.4	380.6	401.5	401.5	380.6	368.0	342.9	301.1	259.3	242.6
85°	150.6	154.7	158.9	184.0	188.2	225.8	209.1	196.6	171.5	146.4	133.8
87.5°	37.6	41.8	54.4	46.0	54.4	54.4	58.5	66.9	66.9	54.4	54.4
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°	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1
2.5°	11404.2	11437.6	11864.2	11918.6	12127.7	12340.9	12771.7	13081.1	13332.1	13495.2	13541.2
5°	9651.9	9865.2	10061.8	10379.6	10668.2	11078.0	11550.6	12136.0	12872.0	13248.4	13399.0
7.5°	7556.8	7807.7	8092.1	8401.5	8823.9	9559.9	10191.4	10868.9	11809.8	12198.8	12788.4
10°	6168.4	6448.6	6824.9	7063.3	7573.5	8276.1	9012.1	9794.1	10693.3	11253.6	11935.3
12.5°	5453.3	5683.3	6030.4	6532.2	6912.8	7368.6	7916.4	8903.4	10191.4	10722.5	11190.9
15°	4662.9	4918.0	5319.4	5875.6	6331.5	6875.1	7489.9	8564.6	9936.3	10756.0	11153.3
17.5°	4010.5	4194.5	4616.9	5097.8	5620.5	6214.4	7096.8	8547.9	10204.0	11253.6	11901.8
20°	3558.8	3583.9	3813.9	4223.8	4934.7	5708.4	6854.2	8464.3	11061.3	12110.9	12930.6
22.5°	3274.5	3249.4	3253.6	3600.7	4098.3	5210.7	6473.7	8748.6	12035.7	13474.3	14026.3
25°	3132.3	3065.4	3023.6	3098.8	3550.5	4621.1	6185.1	9125.0	13085.3	14599.2	15276.7
27.5°	3057.0	2939.9	2856.3	2868.8	3199.2	4324.1	6005.3	9288.1	14126.6	16167.4	16405.8
30°	3027.7	2881.4	2760.1	2718.3	2935.7	3910.1	5620.5	9568.3	15059.2	17028.9	17233.8
32.5°	2923.2	2743.4	2626.3	2588.6	2676.4	3546.3	5344.5	9769.0	15883.1	17965.7	17894.6
35°	2801.9	2651.4	2505.0	2433.9	2496.6	3312.1	5122.9	9672.9	16853.3	18693.3	18655.7
37.5°	2789.4	2592.8	2471.5	2354.4	2350.3	3023.6	4821.8	9764.9	17472.2	19998.1	19483.7
40°	2680.6	2555.2	2396.3	2300.1	2245.7	2877.2	4529.1	9547.4	18379.7	20525.0	20019.0
42.5°	2684.8	2496.6	2358.6	2245.7	2191.3	2663.9	4328.3	9488.9	18697.5	21382.3	20269.9
45°	2617.9	2433.9	2316.8	2183.0	2153.7	2500.8	4136.0	9217.0	19257.9	21424.1	19956.3
47.5°	2551.0	2387.9	2262.4	2103.5	2036.6	2442.3	3985.4	8991.2	18965.2	21031.0	19521.4
50°	2505.0	2316.8	2199.7	2086.8	1898.6	2341.9	3788.8	8936.8	18555.3	20499.9	18714.2
52.5°	2425.5	2258.3	2137.0	2049.2	1748.1	2249.9	3713.6	9254.7	19057.2	20102.6	18480.0
55°	2350.3	2178.8	2024.1	1852.6	1622.6	2007.3	3504.5	9551.6	19789.0	21018.5	19542.3
57.5°	2270.8	2107.7	1940.4	1735.5	1501.3	1756.4	3287.0	9605.9	18417.3	19425.2	18551.1
60°	2166.3	1957.2	1831.7	1564.1	1371.7	1455.3	2605.4	8468.5	14285.5	16221.8	16251.1
62.5°	2049.2	1823.3	1714.6	1401.0	1237.9	1254.6	2124.4	7117.7	11588.2	13428.2	14227.0
65°	1894.4	1677.0	1547.3	1296.4	1141.7	1087.3	1555.7	5214.9	8803.0	10894.0	11801.5
67.5°	1693.7	1488.8	1325.7	1129.1	1020.4	932.6	1062.2	2935.7	5198.2	7314.2	7590.2
70°	1480.4	1304.8	1133.3	970.2	848.9	786.2	777.8	1300.6	2484.1	3935.2	4478.9
72.5°	1166.8	1041.3	903.3	782.0	702.6	610.6	556.2	539.5	840.6	1601.7	2212.3
75°	836.4	731.8	652.4	572.9	514.4	464.2	422.4	384.7	351.3	401.5	552.0
77.5°	526.9	489.3	426.6	405.6	372.2	359.6	342.9	322.0	296.9	280.2	280.2
80°	355.5	330.4	309.5	305.3	292.7	288.6	292.7	271.8	246.7	225.8	234.2
82.5°	238.4	234.2	230.0	225.8	230.0	234.2	242.6	238.4	217.5	204.9	209.1
85°	142.2	150.6	158.9	167.3	184.0	163.1	133.8	112.9	100.4	92.0	87.8
87.5°	54.4	75.3	66.9	62.7	66.9	62.7	58.5	54.4	46.0	41.8	41.8
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: P530578

CATALOG NUMBER: GALN-SA5D-740-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1	12805.1
2.5°	13846.4	13930.1	14001.2	13984.4	13838.1	13641.5	13562.1	13156.4	13072.8	13018.4
5°	14034.6	14519.7	14624.3	14561.6	14181.0	13700.1	13231.7	12637.9	12290.8	12278.2
7.5°	13687.5	14285.5	14473.7	14615.9	14109.9	13273.5	12470.6	11579.8	11362.4	11379.1
10°	12805.1	13758.6	14222.8	14369.2	13787.9	13064.4	11952.0	11048.7	10584.5	10576.2
12.5°	12315.9	13064.4	13194.1	13399.0	13227.5	12495.7	11650.9	10638.9	10187.2	10178.9
15°	11880.9	12374.4	12412.0	12700.6	12792.6	12299.1	11730.4	10651.4	10287.6	10250.0
17.5°	12261.5	11918.6	11776.4	11814.0	12085.8	12265.7	12190.4	11362.4	10990.2	10781.1
20°	12516.6	11751.3	11320.5	11362.4	11684.4	12340.9	12876.2	12391.1	11801.5	11826.6
22.5°	13198.2	11776.4	11103.1	11057.1	11567.3	12734.0	13649.9	13691.7	13123.0	12985.0
25°	14218.6	12064.9	11036.2	11023.6	11512.9	13156.4	14553.2	15230.7	14649.4	14394.3
27.5°	15038.3	12516.6	11245.3	11287.1	11684.4	13499.3	15322.7	16221.8	15778.5	15464.9
30°	15757.6	12985.0	11538.0	11345.6	12144.4	13679.2	15653.0	17350.9	16995.5	16736.2
32.5°	16054.5	13649.9	12002.2	11684.4	12524.9	13896.6	16338.9	18446.6	18141.3	17501.5
35°	16556.4	14022.1	12253.1	12228.0	13189.9	14419.4	16660.9	19170.1	19044.6	18475.9
37.5°	16957.8	14398.5	13143.9	12867.9	14101.5	15297.6	17179.5	20169.6	19881.0	19613.4
40°	17267.3	15071.8	13976.1	14339.9	15222.3	16096.3	17656.2	20232.3	21064.5	20286.7
42.5°	16982.9	15674.0	15343.6	16213.4	17049.8	17008.0	17710.6	20717.4	21340.5	20934.9
45°	16911.8	16694.4	17505.7	18296.0	18488.4	17764.9	17321.6	20182.1	21256.9	21077.0
47.5°	16740.4	17698.0	19111.5	20399.6	20106.8	18271.0	16857.5	20085.9	21307.0	20985.0
50°	16681.8	17915.5	20299.2	21553.8	21378.1	18710.1	16640.0	19467.0	20951.6	20922.3
52.5°	16677.6	18363.0	20792.7	22181.1	22289.8	19404.3	16936.9	19780.6	21227.6	21474.3
55°	16865.8	18220.8	20729.9	21834.0	21792.2	19094.8	16970.4	19989.7	21566.3	21808.9
57.5°	15908.1	16322.2	17108.4	17982.4	17756.6	15816.1	15155.4	18480.0	19793.2	19617.5
60°	13737.7	12441.3	11554.7	11512.9	11073.8	10467.4	12403.7	16493.6	16493.6	16322.2
62.5°	12031.5	8167.4	7017.3	6691.1	7004.8	7703.2	11964.6	16042.0	15586.1	15389.6
65°	10521.8	6235.3	5072.7	4980.7	5524.4	6578.2	10818.7	13666.6	12863.7	12211.3
67.5°	6770.6	4566.7	3772.1	3609.0	4265.6	4830.2	7201.3	8405.7	7899.7	7644.6
70°	4366.0	2973.4	2099.3	1969.7	2224.8	2977.6	4600.1	4901.2	4165.2	3993.8
72.5°	2065.9	1283.9	736.0	606.4	681.7	1137.5	1819.1	1957.2	1626.8	1488.8
75°	656.6	472.6	301.1	259.3	246.7	292.7	418.2	322.0	234.2	230.0
77.5°	292.7	280.2	238.4	200.7	175.6	146.4	121.3	100.4	104.5	108.7
80°	242.6	221.6	196.6	175.6	146.4	112.9	87.8	66.9	66.9	71.1
82.5°	213.3	192.4	171.5	146.4	125.5	92.0	66.9	46.0	41.8	41.8
85°	92.0	108.7	117.1	125.5	100.4	75.3	46.0	29.3	25.1	25.1
87.5°	37.6	33.5	29.3	25.1	20.9	20.9	16.7	12.5	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)