

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: P530552

Luminaire Tested: **GALN-SA5D-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530552
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-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 26878 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

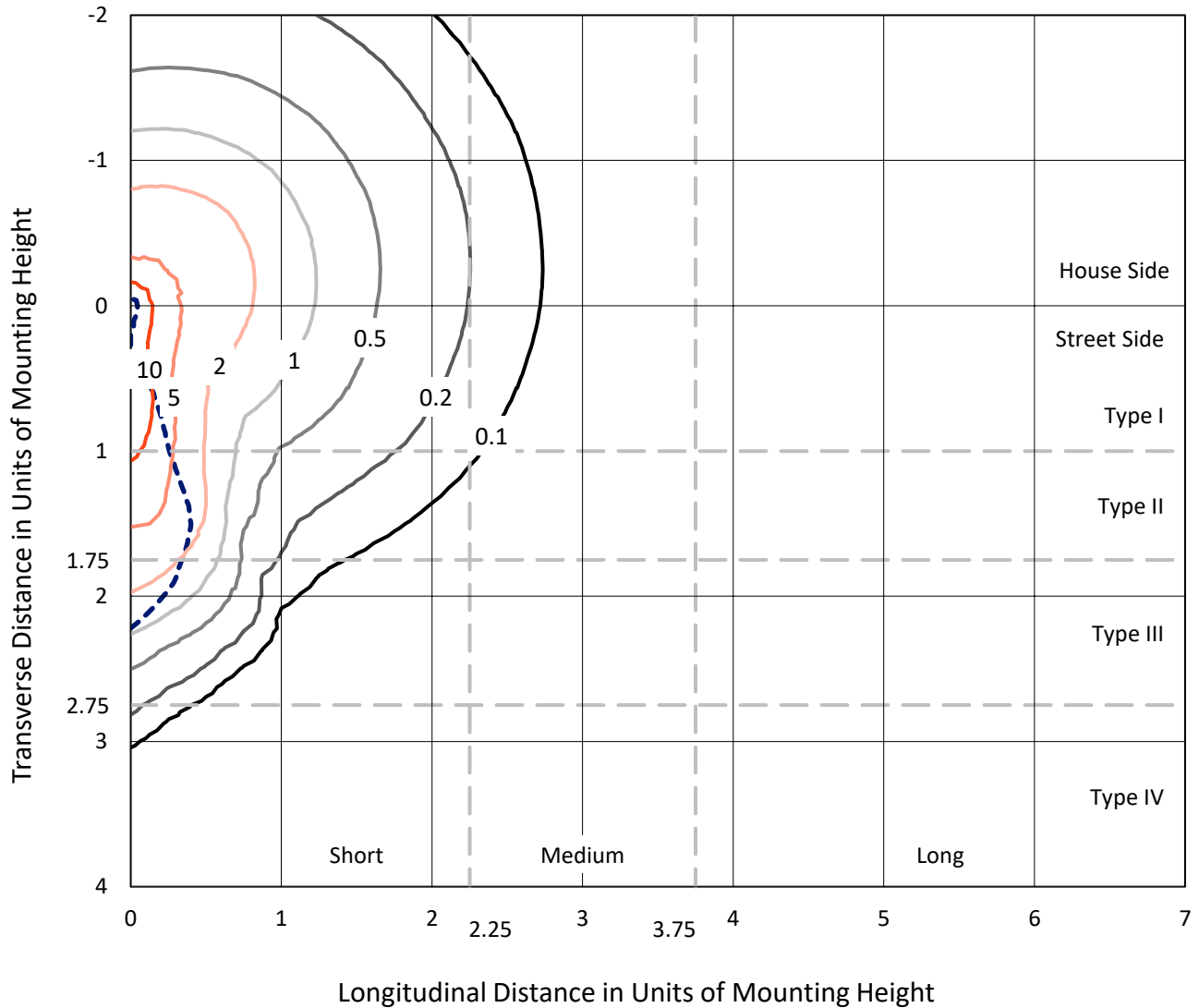
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

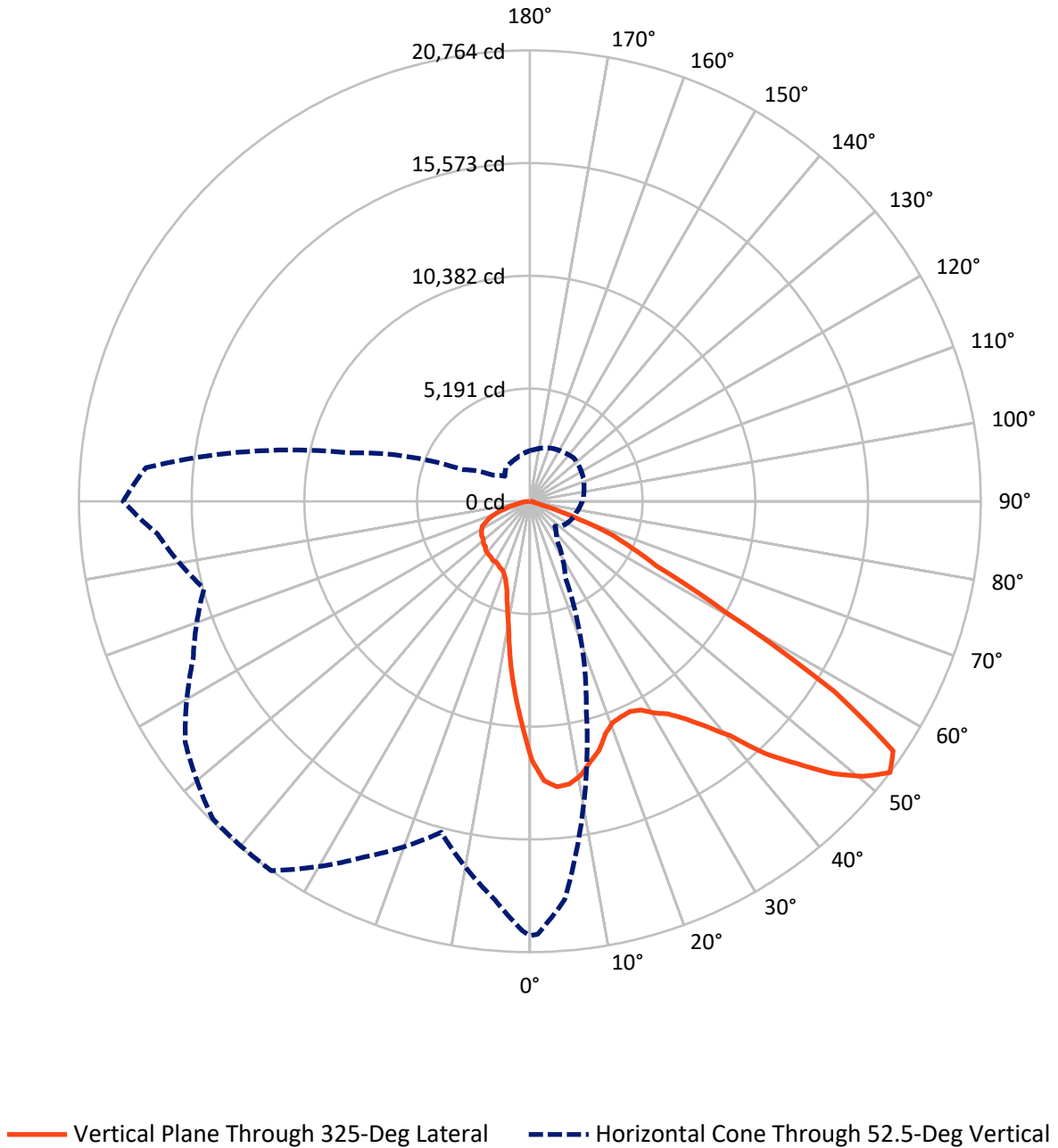
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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	8102.6	0.0	8102.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	18775.4	0.0	18775.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	26878.0	0.0	26878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.1	3.4
10°-20°	1972.9	7.3
20°-30°	2980.8	11.1
30°-40°	4307.4	16.0
40°-50°	5732.4	21.3
50°-60°	6411.8	23.9
60°-70°	3613.7	13.4
70°-80°	805.5	3.0
80°-90°	143.4	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°	26878.0	100.0
0°-180°	26878.0	100.0

Coefficient of Utilization



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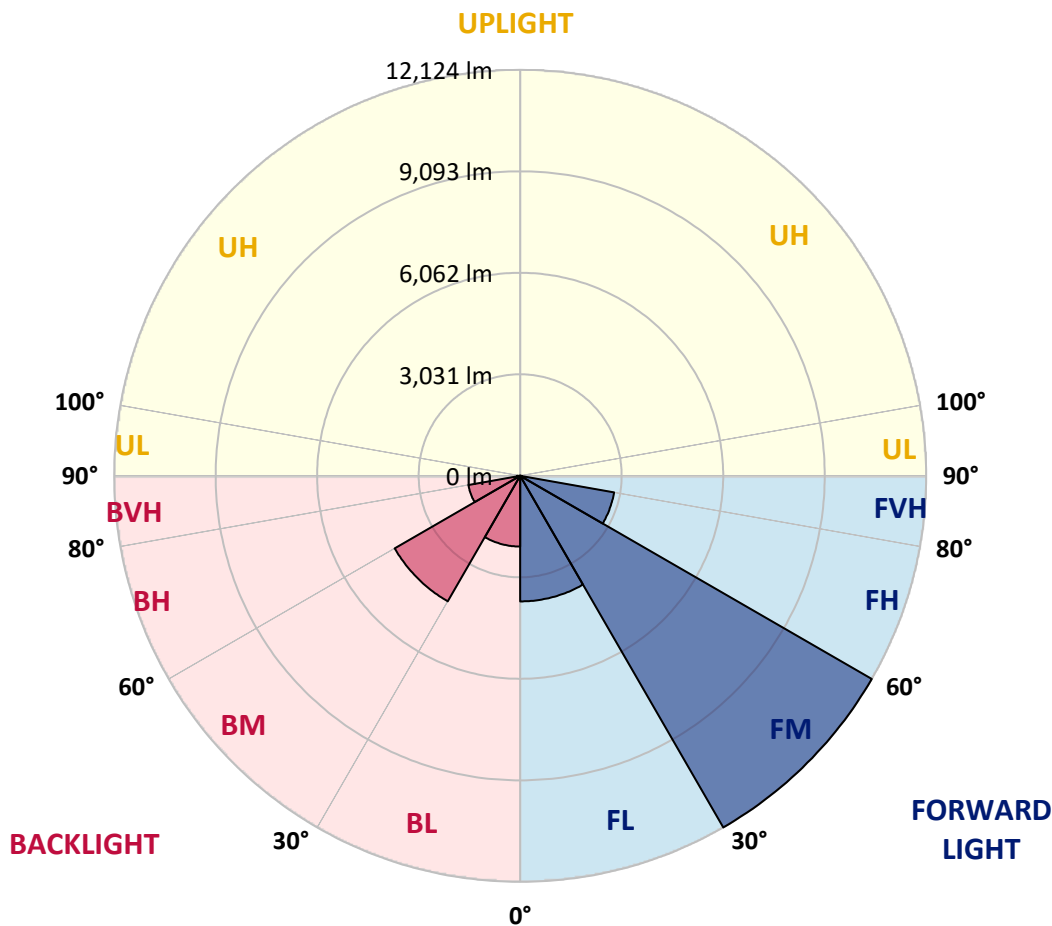
CATALOG NUMBER: GALN-SA5D-735-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3750.8	14.0			
FM (30°-60°)	12124.0	45.1			
FH (60°-80°)	2848.7	10.6			G2/5000
FVH (80°-90°)	52.0	0.2			G1/100
BL (0°-30°)	2113.0	7.9	B3/2500		
BM (30°-60°)	4327.6	16.1	B3/5000		
BH (60°-80°)	1570.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	91.5	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°	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6
2.5°	12127.3	12322.1	12111.7	11737.7	11472.8	11231.3	10978.1	10927.4	10596.3	10537.9	10296.3
5°	11437.8	11394.9	11137.8	10646.9	10105.4	9614.6	9252.3	8901.7	8664.0	8387.4	8368.0
7.5°	10600.2	10350.9	10202.8	9458.8	8788.7	8017.3	7686.2	7152.5	6985.0	6735.7	6607.1
10°	9852.2	9669.1	9322.4	8578.3	7643.4	7133.0	6778.5	6490.2	6295.4	6038.3	5715.0
12.5°	9482.1	9408.1	9018.5	7865.4	7172.0	6626.6	6377.3	6096.8	5765.6	5352.7	5193.0
15°	9548.4	9299.0	9003.0	7729.1	6770.7	6244.8	5847.4	5496.8	5072.2	4678.7	4448.9
17.5°	10043.1	9852.2	9260.1	7814.8	6618.8	5859.1	5138.4	4620.3	4238.5	3884.0	3724.3
20°	11017.0	10740.4	10074.3	7923.8	6291.5	5321.5	4495.6	3856.7	3447.7	3260.7	3206.2
22.5°	12096.1	11932.5	10869.0	8169.3	6030.5	4822.9	3813.9	3175.0	3023.1	2972.4	3073.7
25°	13409.0	12984.4	12103.9	8570.5	5828.0	4398.2	3237.3	2882.8	2804.9	2855.5	2972.4
27.5°	14406.3	14293.3	12968.8	8948.4	5551.4	3887.9	2914.0	2680.2	2703.6	2754.3	2863.3
30°	15590.6	15017.9	13806.3	9209.4	5302.0	3537.3	2688.0	2625.7	2649.1	2734.8	2789.3
32.5°	16303.5	16089.2	14332.3	9602.9	5013.8	3233.4	2512.7	2454.3	2489.3	2617.9	2746.5
35°	17211.2	16786.6	14982.8	9704.2	4811.2	3112.7	2388.1	2345.2	2427.0	2516.6	2660.8
37.5°	18270.8	17978.6	15882.8	9634.1	4702.1	2988.0	2282.9	2263.4	2321.8	2446.5	2614.0
40°	18898.0	18808.4	16354.1	9676.9	4530.7	2878.9	2162.1	2185.5	2306.3	2403.6	2567.3
42.5°	19501.9	18917.5	17051.5	9661.3	4421.6	2730.9	2173.8	2146.5	2240.0	2353.0	2508.8
45°	19634.3	19053.8	17215.1	9552.2	4289.2	2586.7	2084.2	2095.9	2208.9	2349.1	2450.4
47.5°	19548.6	19120.1	17518.9	9521.1	4164.5	2485.5	1951.7	2092.0	2158.2	2271.2	2415.3
50°	19490.2	19466.8	17776.1	9669.1	3997.0	2325.7	1792.0	2041.3	2107.6	2220.5	2376.4
52.5°	20004.4	19953.8	18418.9	10058.7	3864.5	2154.3	1628.4	1912.8	2072.5	2181.6	2333.5
55°	20316.1	20094.0	19521.3	10537.9	3642.5	1928.4	1515.4	1753.1	1986.8	2084.2	2240.0
57.5°	18274.7	18122.8	17659.2	9836.6	3268.5	1632.3	1375.2	1589.4	1869.9	2021.9	2181.6
60°	15204.9	14967.3	13779.1	8360.2	2411.4	1270.0	1289.5	1460.9	1838.8	1897.2	2084.2
62.5°	14336.2	13747.9	12131.2	6727.9	1850.5	1090.8	1157.0	1344.0	1675.1	1772.5	1959.5
65°	11375.4	10939.1	8679.6	4857.9	1238.8	946.7	1055.7	1211.6	1445.3	1636.2	1807.6
67.5°	7121.3	6704.5	4632.0	2298.5	864.8	810.3	942.8	1106.4	1297.3	1468.7	1659.6
70°	3720.4	3264.6	2138.7	829.8	596.0	662.3	786.9	942.8	1129.8	1270.0	1418.0
72.5°	1386.9	1125.9	697.3	358.4	412.9	506.4	638.9	751.9	884.3	1055.7	1137.5
75°	214.3	183.1	179.2	218.2	280.5	366.2	455.8	568.8	685.6	794.7	849.3
77.5°	101.3	97.4	109.1	144.1	187.0	261.0	331.1	440.2	533.7	603.8	635.0
80°	66.2	62.3	70.1	97.4	140.2	194.8	264.9	338.9	424.6	483.1	475.3
82.5°	39.0	42.9	42.9	66.2	97.4	140.2	190.9	257.1	315.6	366.2	335.0
85°	23.4	19.5	19.5	39.0	66.2	113.0	159.7	109.1	113.0	113.0	128.6
87.5°	7.8	7.8	7.8	3.9	7.8	7.8	11.7	19.5	23.4	27.3	35.1
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°	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6
2.5°	10288.5	10409.3	10366.4	10214.5	10331.4	10350.9	10273.0	10541.8	10592.4	10510.6	10534.0
5°	8340.7	8371.9	8442.0	8590.0	8695.2	8819.9	8819.9	8827.6	8722.5	8987.4	8909.5
7.5°	6498.0	6517.5	6599.3	6914.9	7004.5	7242.1	7343.4	7273.3	7062.9	6973.3	7047.3
10°	5609.8	5496.8	5469.6	5508.5	5711.1	5812.4	5898.1	5874.7	5839.6	5769.5	5691.6
12.5°	5017.7	4935.8	4869.6	4776.1	4787.8	4885.2	4951.4	4896.9	4912.5	4928.1	4951.4
15°	4374.9	4316.4	4281.4	4141.1	4125.5	4191.8	4215.1	4246.3	4304.7	4308.6	4281.4
17.5°	3693.1	3642.5	3720.4	3798.3	3743.8	3747.7	3790.5	3817.8	3802.2	3732.1	3697.0
20°	3225.6	3280.2	3358.1	3432.1	3490.5	3525.6	3541.2	3498.3	3447.7	3303.6	3299.7
22.5°	3089.3	3159.4	3225.6	3338.6	3393.2	3482.8	3400.9	3303.6	3233.4	3163.3	3081.5
25°	2988.0	3046.4	3178.9	3221.7	3326.9	3400.9	3342.5	3245.1	3124.3	3023.1	2960.7
27.5°	2914.0	2980.2	3065.9	3182.8	3264.6	3307.4	3249.0	3210.1	3085.4	2964.6	2875.0
30°	2867.2	2937.4	3093.2	3190.6	3260.7	3295.8	3194.5	3147.7	3058.1	2956.8	2878.9
32.5°	2836.1	2898.4	3030.9	3155.5	3202.3	3202.3	3217.8	3163.3	3038.6	2867.2	2801.0
35°	2734.8	2820.5	2929.6	3073.7	3159.4	3210.1	3132.1	3069.8	2988.0	2812.7	2691.9
37.5°	2676.3	2734.8	2875.0	3011.4	3085.4	3139.9	3108.8	2999.7	2890.6	2746.5	2649.1
40°	2614.0	2707.5	2832.2	2960.7	3042.5	3097.1	3073.7	2945.1	2812.7	2676.3	2610.1
42.5°	2571.2	2633.5	2762.0	2906.2	3003.6	3108.8	3038.6	2878.9	2785.4	2598.4	2524.4
45°	2536.1	2637.4	2773.7	2832.2	2933.5	3042.5	2917.9	2820.5	2711.4	2575.1	2512.7
47.5°	2493.2	2586.7	2676.3	2832.2	2878.9	2929.6	2906.2	2750.4	2656.9	2508.8	2466.0
50°	2477.7	2512.7	2676.3	2762.0	2828.3	2878.9	2816.6	2699.7	2610.1	2458.2	2364.7
52.5°	2415.3	2481.6	2586.7	2699.7	2781.5	2843.9	2742.6	2668.6	2547.8	2388.1	2329.6
55°	2337.4	2376.4	2563.4	2680.2	2723.1	2765.9	2727.0	2606.2	2481.6	2317.9	2259.5
57.5°	2236.1	2325.7	2477.7	2641.3	2695.8	2719.2	2656.9	2559.5	2403.6	2259.5	2166.0
60°	2130.9	2224.4	2392.0	2524.4	2579.0	2664.7	2571.2	2512.7	2333.5	2173.8	2072.5
62.5°	2025.8	2130.9	2255.6	2423.1	2469.9	2504.9	2481.6	2399.7	2255.6	2076.4	1951.7
65°	1901.1	1979.0	2134.8	2220.5	2251.7	2333.5	2251.7	2220.5	2092.0	1920.6	1815.4
67.5°	1714.1	1780.3	1916.7	1998.5	2021.9	2056.9	2053.0	2018.0	1873.8	1757.0	1663.5
70°	1499.8	1558.3	1644.0	1741.4	1753.1	1795.9	1757.0	1749.2	1655.7	1495.9	1445.3
72.5°	1203.8	1258.3	1371.3	1414.1	1418.0	1433.6	1414.1	1386.9	1363.5	1196.0	1145.3
75°	923.3	954.4	1009.0	1047.9	1047.9	1067.4	1055.7	1028.5	966.1	860.9	810.3
77.5°	642.8	674.0	744.1	767.5	763.6	771.3	736.3	709.0	615.5	561.0	518.1
80°	467.5	487.0	522.0	537.6	541.5	553.2	510.3	487.0	432.4	370.1	350.6
82.5°	338.9	350.6	354.5	374.0	374.0	354.5	342.8	319.4	280.5	241.5	226.0
85°	140.2	144.1	148.0	171.4	175.3	210.4	194.8	183.1	159.7	136.3	124.7
87.5°	35.1	39.0	50.6	42.9	50.6	50.6	54.5	62.3	62.3	50.6	50.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6
2.5°	10623.6	10654.7	11052.1	11102.7	11297.5	11496.2	11897.5	12185.7	12419.5	12571.4	12614.3
5°	8991.3	9189.9	9373.0	9669.1	9937.9	10319.7	10759.9	11305.3	11991.0	12341.6	12481.8
7.5°	7039.5	7273.3	7538.2	7826.5	8219.9	8905.6	9493.8	10124.9	11001.4	11363.7	11913.0
10°	5746.2	6007.2	6357.8	6579.8	7055.1	7709.6	8395.2	9123.7	9961.3	10483.3	11118.3
12.5°	5080.0	5294.3	5617.6	6085.1	6439.6	6864.2	7374.6	8293.9	9493.8	9988.6	10424.9
15°	4343.7	4581.3	4955.3	5473.5	5898.1	6404.5	6977.2	7978.4	9256.2	10019.7	10389.8
17.5°	3736.0	3907.4	4300.8	4748.9	5235.8	5789.0	6611.0	7962.8	9505.5	10483.3	11087.2
20°	3315.2	3338.6	3552.9	3934.7	4596.9	5317.6	6385.0	7884.9	10304.1	11281.9	12045.5
22.5°	3050.3	3027.0	3030.9	3354.2	3817.8	4854.0	6030.5	8149.8	11211.8	12551.9	13066.2
25°	2917.9	2855.5	2816.6	2886.7	3307.4	4304.7	5761.7	8500.4	12189.6	13599.9	14231.0
27.5°	2847.8	2738.7	2660.8	2672.4	2980.2	4028.1	5594.2	8652.3	13159.7	15060.8	15282.8
30°	2820.5	2684.1	2571.2	2532.2	2734.8	3642.5	5235.8	8913.4	14028.4	15863.3	16054.2
32.5°	2723.1	2555.6	2446.5	2411.4	2493.2	3303.6	4978.7	9100.3	14795.9	16735.9	16669.7
35°	2610.1	2469.9	2333.5	2267.3	2325.7	3085.4	4772.2	9010.7	15699.7	17413.8	17378.7
37.5°	2598.4	2415.3	2302.4	2193.3	2189.4	2816.6	4491.7	9096.5	16276.2	18629.2	18150.0
40°	2497.1	2380.3	2232.2	2142.6	2092.0	2680.2	4219.0	8893.9	17121.6	19120.1	18648.7
42.5°	2501.0	2325.7	2197.2	2092.0	2041.3	2481.6	4032.0	8839.3	17417.7	19918.7	18882.4
45°	2438.7	2267.3	2158.2	2033.6	2006.3	2329.6	3852.8	8586.1	17939.7	19957.7	18590.3
47.5°	2376.4	2224.4	2107.6	1959.5	1897.2	2275.1	3712.6	8375.7	17667.0	19591.5	18185.1
50°	2333.5	2158.2	2049.1	1944.0	1768.6	2181.6	3529.5	8325.1	17285.2	19096.7	17433.2
52.5°	2259.5	2103.7	1990.7	1908.9	1628.4	2095.9	3459.4	8621.2	17752.7	18726.6	17215.1
55°	2189.4	2029.7	1885.5	1725.8	1511.5	1869.9	3264.6	8897.8	18434.4	19579.8	18204.6
57.5°	2115.4	1963.4	1807.6	1616.7	1398.6	1636.2	3062.0	8948.4	17156.6	18095.5	17281.3
60°	2018.0	1823.2	1706.3	1457.0	1277.8	1355.7	2427.0	7888.8	13307.7	15111.4	15138.7
62.5°	1908.9	1698.5	1597.2	1305.1	1153.1	1168.7	1979.0	6630.5	10795.0	12509.1	13253.2
65°	1764.8	1562.2	1441.4	1207.7	1063.5	1012.9	1449.2	4857.9	8200.4	10148.3	10993.7
67.5°	1577.8	1386.9	1234.9	1051.8	950.5	868.7	989.5	2734.8	4842.4	6813.6	7070.7
70°	1379.1	1215.5	1055.7	903.8	790.8	732.4	724.6	1211.6	2314.0	3665.9	4172.3
72.5°	1086.9	970.0	841.5	728.5	654.5	568.8	518.1	502.5	783.0	1492.1	2060.8
75°	779.1	681.7	607.7	533.7	479.2	432.4	393.5	358.4	327.2	374.0	514.2
77.5°	490.9	455.8	397.4	377.9	346.7	335.0	319.4	300.0	276.6	261.0	261.0
80°	331.1	307.8	288.3	284.4	272.7	268.8	272.7	253.2	229.8	210.4	218.2
82.5°	222.1	218.2	214.3	210.4	214.3	218.2	226.0	222.1	202.6	190.9	194.8
85°	132.5	140.2	148.0	155.8	171.4	151.9	124.7	105.2	93.5	85.7	81.8
87.5°	50.6	70.1	62.3	58.4	62.3	58.4	54.5	50.6	42.9	39.0	39.0
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: P530552

CATALOG NUMBER: GALN-SA5D-735-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6	11928.6
2.5°	12898.6	12976.6	13042.8	13027.2	12890.9	12707.8	12633.7	12255.9	12177.9	12127.3
5°	13074.0	13525.9	13623.2	13564.8	13210.3	12762.3	12326.0	11772.8	11449.5	11437.8
7.5°	12750.6	13307.7	13483.0	13615.5	13144.1	12364.9	11617.0	10787.2	10584.6	10600.2
10°	11928.6	12816.8	13249.3	13385.6	12844.1	12170.2	11133.9	10292.4	9860.0	9852.2
12.5°	11472.8	12170.2	12290.9	12481.8	12322.1	11640.3	10853.4	9910.7	9489.9	9482.1
15°	11067.7	11527.4	11562.4	11831.2	11916.9	11457.2	10927.4	9922.3	9583.4	9548.4
17.5°	11422.2	11102.7	10970.3	11005.3	11258.6	11426.1	11356.0	10584.6	10237.9	10043.1
20°	11659.8	10946.9	10545.6	10584.6	10884.6	11496.2	11994.8	11542.9	10993.7	11017.0
22.5°	12294.8	10970.3	10343.1	10300.2	10775.5	11862.4	12715.6	12754.5	12224.7	12096.1
25°	13245.4	11239.1	10280.7	10269.1	10724.9	12255.9	13557.0	14188.1	13646.6	13409.0
27.5°	14008.9	11659.8	10475.5	10514.5	10884.6	12575.3	14273.8	15111.4	14698.5	14406.3
30°	14679.0	12096.1	10748.2	10569.0	11313.1	12742.8	14581.6	16163.2	15832.1	15590.6
32.5°	14955.6	12715.6	11180.6	10884.6	11667.6	12945.4	15220.5	17183.9	16899.5	16303.5
35°	15423.1	13062.3	11414.4	11391.0	12287.0	13432.4	15520.5	17857.9	17741.0	17211.2
37.5°	15797.0	13412.9	12244.2	11987.1	13136.3	14250.5	16003.5	18788.9	18520.1	18270.8
40°	16085.3	14040.1	13019.4	13358.3	14180.3	14994.5	16447.6	18847.4	19622.6	18898.0
42.5°	15820.4	14601.1	14293.3	15103.6	15882.8	15843.8	16498.3	19299.3	19879.7	19501.9
45°	15754.2	15551.6	16307.4	17043.7	17222.9	16548.9	16136.0	18800.6	19801.8	19634.3
47.5°	15594.5	16486.6	17803.3	19003.2	18730.5	17020.3	15703.6	18711.0	19848.6	19548.6
50°	15539.9	16689.2	18909.7	20078.4	19914.8	17429.3	15501.0	18134.5	19517.4	19490.2
52.5°	15536.0	17106.0	19369.4	20662.8	20764.1	18076.0	15777.6	18426.6	19774.6	20004.4
55°	15711.3	16973.5	19311.0	20339.4	20300.5	17787.7	15808.7	18621.4	20090.1	20316.1
57.5°	14819.2	15204.9	15937.3	16751.5	16541.1	14733.5	14118.0	17215.1	18438.3	18274.7
60°	12797.4	11589.7	10763.8	10724.9	10315.8	9750.9	11554.6	15364.6	15364.6	15204.9
62.5°	11207.9	7608.3	6537.0	6233.1	6525.3	7175.9	11145.6	14943.9	14519.3	14336.2
65°	9801.6	5808.5	4725.5	4639.8	5146.2	6127.9	10078.2	12731.1	11983.2	11375.4
67.5°	6307.1	4254.1	3513.9	3362.0	3973.6	4499.5	6708.4	7830.3	7359.0	7121.3
70°	4067.1	2769.8	1955.6	1834.9	2072.5	2773.7	4285.3	4565.8	3880.1	3720.4
72.5°	1924.5	1196.0	685.6	564.9	635.0	1059.6	1694.6	1823.2	1515.4	1386.9
75°	611.6	440.2	280.5	241.5	229.8	272.7	389.6	300.0	218.2	214.3
77.5°	272.7	261.0	222.1	187.0	163.6	136.3	113.0	93.5	97.4	101.3
80°	226.0	206.5	183.1	163.6	136.3	105.2	81.8	62.3	62.3	66.2
82.5°	198.7	179.2	159.7	136.3	116.9	85.7	62.3	42.9	39.0	39.0
85°	85.7	101.3	109.1	116.9	93.5	70.1	42.9	27.3	23.4	23.4
87.5°	35.1	31.2	27.3	23.4	19.5	19.5	15.6	11.7	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)