

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: P530550

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530550
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-SA5D-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA 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: 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 II - Short
BUG Rating: B3 - U0 - G3

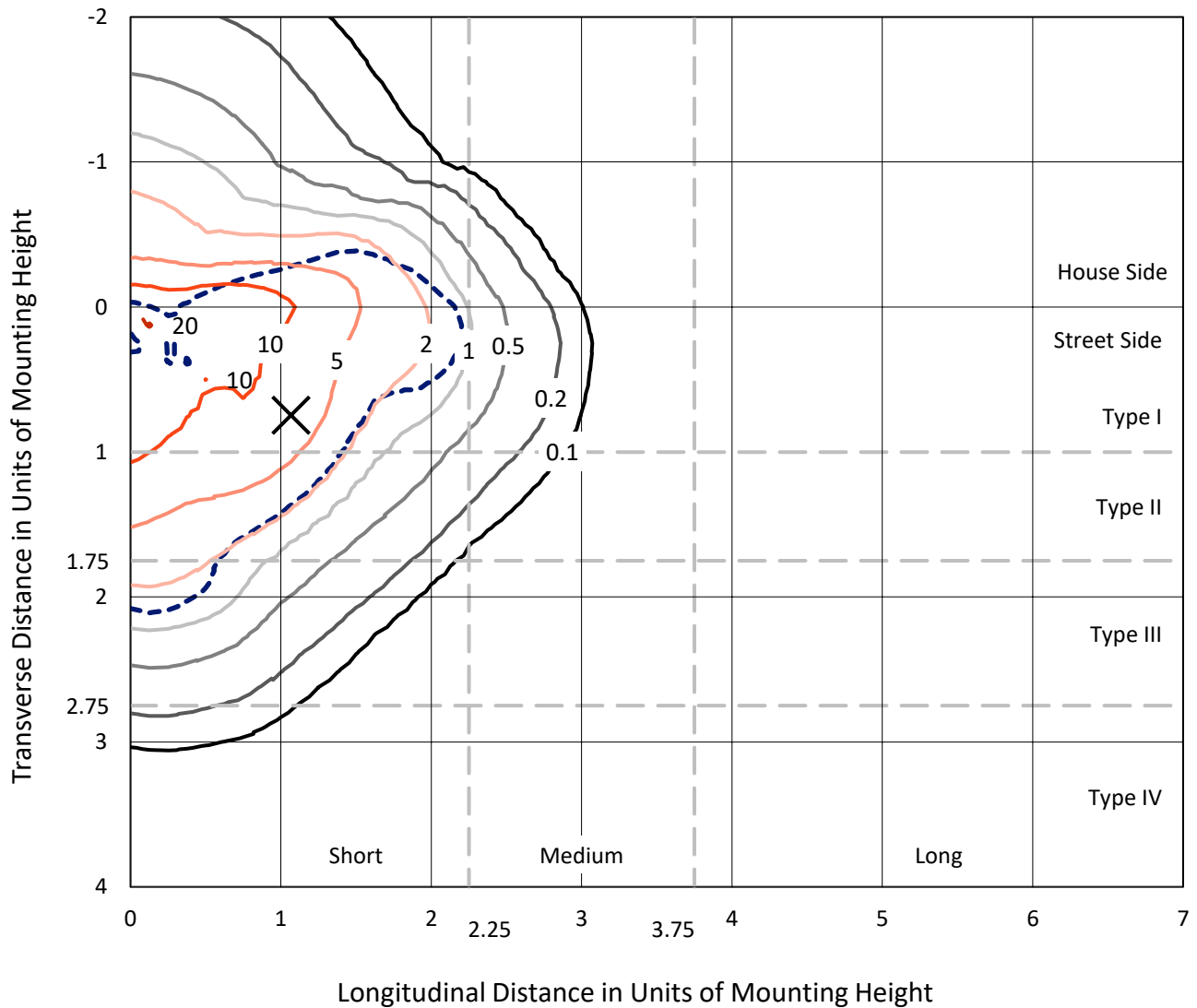
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

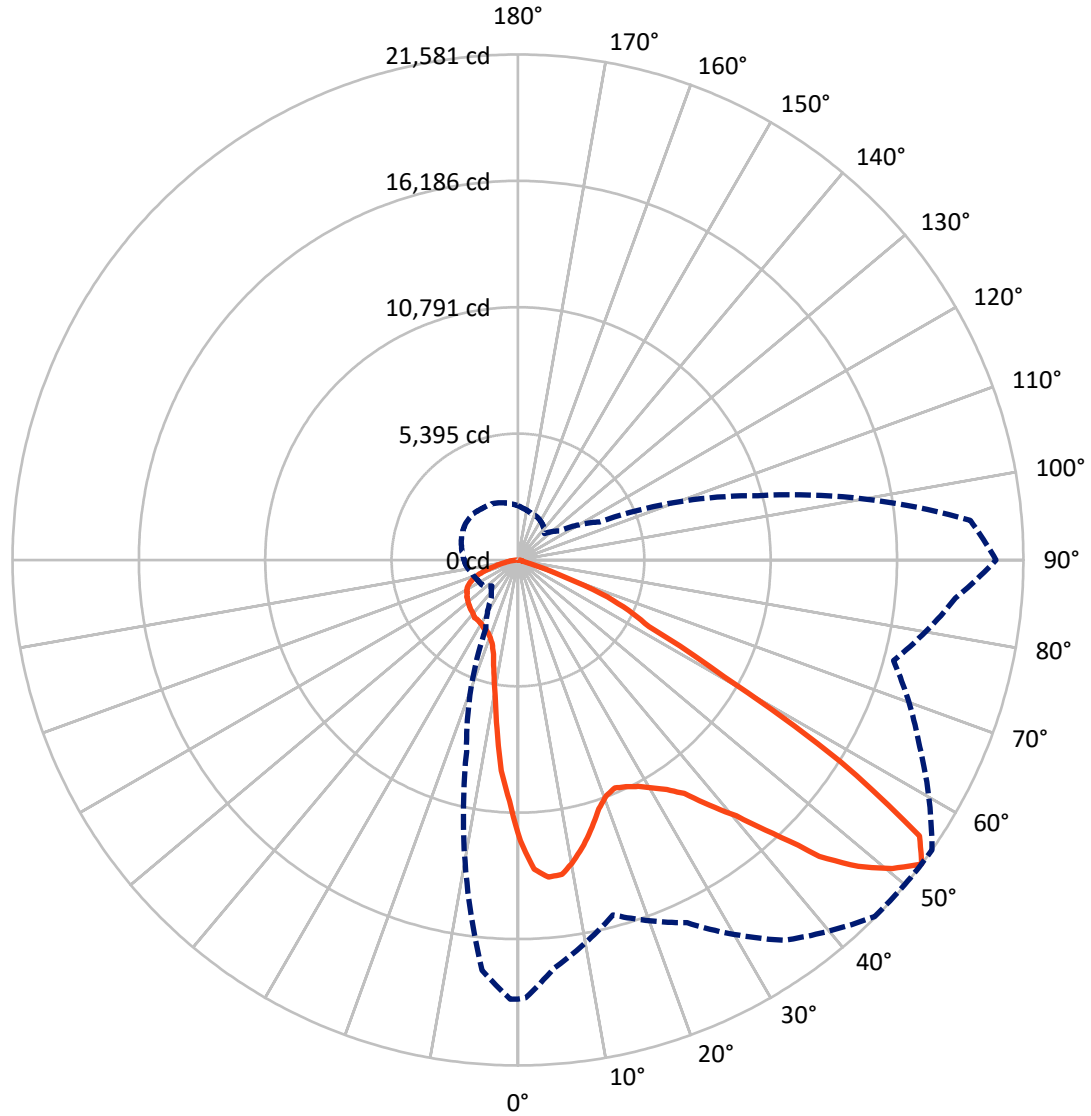
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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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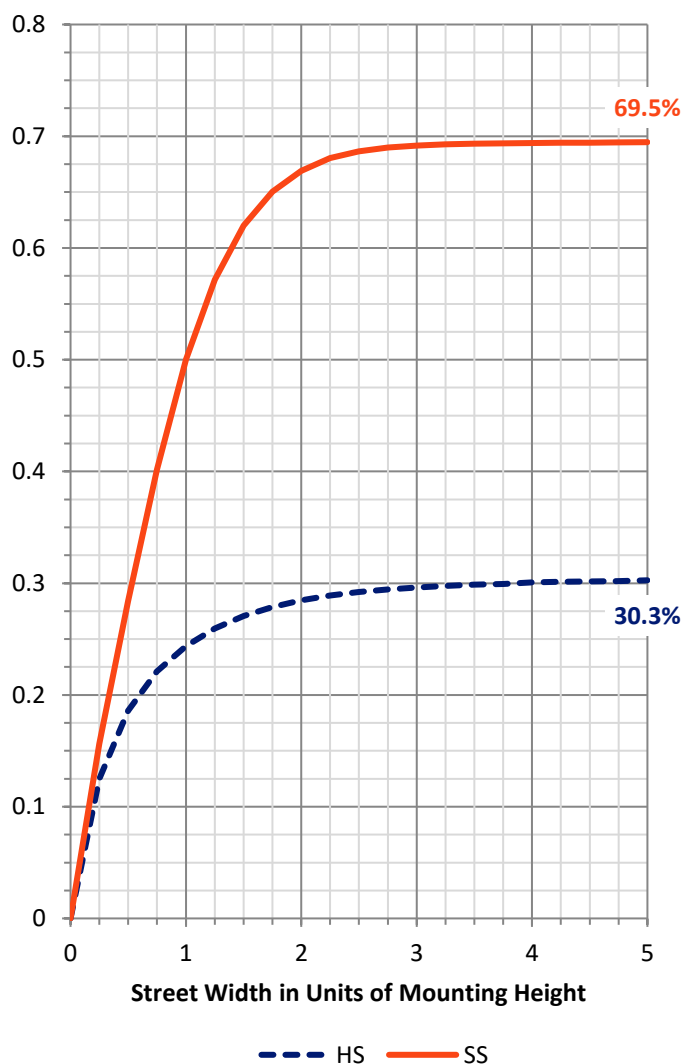
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8199.3	0.0	8199.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	18678.7	0.0	18678.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	26878.0	0.0	26878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.0	3.4
10°-20°	1975.0	7.3
20°-30°	2994.7	11.1
30°-40°	4326.9	16.1
40°-50°	5781.9	21.5
50°-60°	6453.9	24.0
60°-70°	3540.3	13.2
70°-80°	765.4	2.8
80°-90°	123.8	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°	26878.0	100.0
0°-180°	26878.0	100.0

Coefficient of Utilization



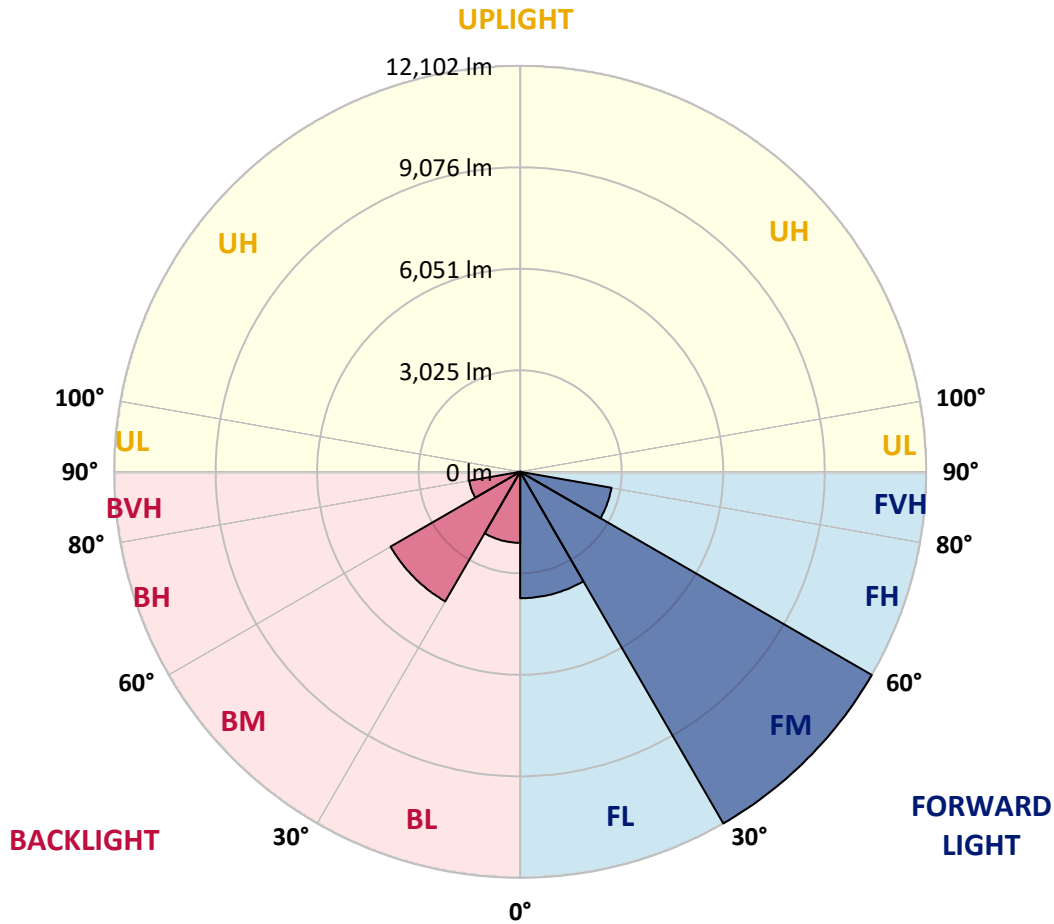
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3768.8	14.0			
FM (30°-60°)	12101.7	45.0			
FH (60°-80°)	2762.4	10.3			G2/5000
FVH (80°-90°)	45.8	0.2			G1/100
BL (0°-30°)	2116.9	7.9	B3/2500		
BM (30°-60°)	4461.1	16.6	B3/5000		
BH (60°-80°)	1543.3	5.7	B3/2500		G3/2500
BVH (80°-90°)	78.0	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°	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7
2.5°	12582.3	12511.6	12574.4	12872.7	13045.4	13163.1	13237.7	13225.9	12943.3	12668.6	12668.6
5°	12213.4	12123.1	12252.6	12927.6	13606.6	13665.5	13763.6	13602.7	13186.7	12684.3	12056.4
7.5°	11145.9	11212.6	11428.4	12315.4	13198.4	13641.9	13759.7	13555.6	12880.6	11942.6	11020.3
10°	10223.6	10380.6	10879.0	11836.6	12649.0	13225.9	13355.4	13068.9	12535.2	11385.3	10561.1
12.5°	9905.7	9807.6	10361.0	11318.6	12095.6	12405.7	12464.5	12484.2	12123.1	11102.7	10098.0
15°	9866.5	9929.2	10361.0	11087.0	11565.8	11581.5	11679.6	11832.7	11879.8	11295.0	10313.9
17.5°	10431.6	10357.0	10800.5	11377.4	11149.8	10922.2	10945.7	11165.5	11554.0	11459.8	10992.8
20°	11267.5	11436.3	11785.6	11726.7	11114.5	10537.6	10541.5	10749.5	11514.8	12142.7	11938.6
22.5°	12656.8	12821.7	13080.7	12370.4	11114.5	10423.7	10290.3	10572.9	11766.0	12955.1	13006.1
25°	13924.5	14226.7	14297.3	13461.4	11671.8	10529.7	10443.4	10722.0	12017.1	13747.9	14230.6
27.5°	15078.3	15188.2	15498.3	14163.9	11981.8	10600.4	10592.5	10949.6	12335.0	14144.3	15325.6
30°	15988.8	15977.1	16153.7	14607.4	12476.3	10996.7	10616.1	11291.1	12751.0	14799.7	16338.1
32.5°	16608.9	16742.4	17115.2	15223.5	12684.3	11373.5	11075.2	11691.4	13257.3	15109.7	17052.4
35°	17700.0	17931.5	17460.6	15565.0	13343.7	11746.3	11397.1	12236.9	13508.5	15447.2	17927.6
37.5°	18728.2	18551.6	18072.8	15749.4	13771.4	12437.1	12111.3	13292.6	14289.5	16181.1	18508.4
40°	19387.5	19383.6	18532.0	15898.6	14073.6	13492.8	13473.2	14364.1	15247.1	16644.2	19159.9
42.5°	19674.0	19948.8	18720.4	15882.9	14709.4	14772.2	15168.6	15965.3	15926.0	16738.4	19144.2
44°	20066.5	20231.3	19046.1	15918.2	15133.3	15635.6	16569.7	17076.0	16518.7	16687.4	19124.6
45°	20050.8	20062.6	18583.0	15965.3	15494.3	16357.8	17193.7	18049.3	17040.6	16577.5	19383.6
47.5°	19591.6	19458.2	18190.5	15616.0	16620.7	18265.1	19038.3	19556.3	17684.3	16342.1	19061.8
50°	18685.0	18532.0	17236.9	15466.9	16856.2	19450.3	20517.8	20706.2	18269.0	16110.5	18743.9
52.5°	18747.8	18704.7	17507.7	15690.6	17091.7	19823.2	21534.3	21581.4	18932.3	16597.2	18747.8
55°	19870.3	19721.1	18284.7	15969.2	16919.0	19387.5	20886.7	20804.3	18708.6	16302.8	19093.2
57.5°	18182.7	18280.8	17209.4	14866.4	14807.5	15761.2	16420.5	16216.5	15612.1	14713.3	17762.8
60°	14670.2	14948.8	15050.9	12433.1	11173.3	10682.8	10486.5	10125.5	10227.5	12087.8	15604.2
62.5°	12582.3	12566.6	13206.3	11271.5	7319.4	6295.1	6200.9	6283.3	7460.7	11899.4	15282.4
65°	9976.3	10243.2	10439.4	9552.5	5792.7	4674.2	4670.3	5192.3	6456.0	9944.9	12339.0
67.5°	6334.3	6683.6	6926.9	6110.6	3873.6	3328.1	3237.8	3865.7	4474.0	6522.7	7429.3
70°	3571.4	3736.2	3846.1	3524.3	2464.7	1726.8	1624.8	1773.9	2704.1	4222.9	4403.4
72.5°	1377.5	1452.1	1601.2	1613.0	930.1	557.3	451.3	541.6	1138.1	1671.9	1593.4
75°	211.9	227.6	321.8	384.6	266.9	204.1	215.9	223.7	317.9	431.7	361.1
77.5°	102.0	102.0	98.1	113.8	133.4	145.2	157.0	172.7	188.4	208.0	200.2
80°	66.7	66.7	66.7	78.5	98.1	117.7	133.4	141.3	149.1	164.8	157.0
82.5°	43.2	43.2	43.2	58.9	78.5	98.1	106.0	125.6	141.3	164.8	153.1
85°	23.5	23.5	23.5	39.2	58.9	82.4	78.5	62.8	35.3	3.9	7.8
87.5°	7.8	7.8	7.8	7.8	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°	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7
2.5°	12339.0	12158.4	12142.7	11773.8	11444.1	11283.2	11153.7	10792.7	10871.2	10663.2	10659.2
5°	11742.4	11373.5	10777.0	10286.4	9795.8	9697.7	9269.9	8897.1	8908.9	8642.0	8689.1
7.5°	10671.0	10415.9	9689.8	8920.6	8269.1	7806.0	7401.8	7158.5	6848.4	6742.5	6687.5
10°	9992.0	9678.1	8861.8	7896.3	7166.3	6919.1	6530.5	6314.7	5996.8	5839.8	5729.9
12.5°	9693.8	9234.6	8214.2	7233.0	6746.4	6491.3	6161.6	5769.2	5392.4	5247.2	5047.0
15°	9725.2	9175.7	8025.8	6966.2	6381.4	5886.9	5592.6	5156.9	4772.3	4517.2	4372.0
17.5°	10200.0	9532.9	8112.2	6762.1	5922.2	5302.1	4725.2	4254.3	3948.2	3755.8	3708.8
20°	11322.5	10415.9	8257.4	6432.4	5463.0	4689.9	3979.5	3489.0	3253.5	3249.6	3253.5
22.5°	12256.5	11357.8	8551.7	6236.2	5003.9	3905.0	3198.6	3041.6	2994.5	3092.6	3104.4
25°	13516.3	12417.4	9058.0	6134.2	4580.0	3328.1	2892.4	2833.6	2829.6	2955.2	2959.2
27.5°	14807.5	13343.7	9360.2	5835.9	4148.3	3029.8	2708.0	2696.2	2759.0	2892.4	2880.7
30°	15686.6	14120.7	9905.7	5478.7	3638.1	2766.8	2633.4	2649.1	2735.4	2837.5	2853.2
32.5°	16711.0	14886.0	10047.0	5282.5	3324.1	2547.1	2452.9	2488.2	2598.1	2759.0	2845.3
35°	17884.4	15427.6	10262.8	5015.6	3206.4	2378.3	2331.2	2370.5	2503.9	2609.9	2704.1
37.5°	18751.8	16385.2	10302.1	4807.6	3076.9	2284.1	2209.6	2339.1	2417.6	2566.7	2613.8
40°	19395.4	17079.9	10404.1	4678.1	2974.9	2162.5	2162.5	2248.8	2354.8	2492.1	2586.3
42.5°	19807.5	17586.2	10478.7	4560.4	2778.6	2127.1	2107.5	2193.9	2335.1	2468.6	2511.7
44°	20058.7	17802.0	10404.1	4450.5	2723.7	2084.0	2084.0	2158.5	2268.4	2425.4	2476.4
45°	20121.4	18072.8	10239.3	4446.6	2657.0	2032.9	2025.1	2166.4	2240.9	2433.3	2464.7
47.5°	20364.8	18406.4	10258.9	4321.0	2496.0	1911.3	2048.6	2111.4	2178.2	2346.9	2452.9
50°	20356.9	18614.4	10215.7	4136.5	2378.3	1773.9	2001.5	2072.2	2138.9	2311.6	2354.8
52.5°	20411.9	19391.5	10612.1	3842.2	2166.4	1597.3	1844.6	2001.5	2084.0	2229.2	2319.4
55°	20384.4	19835.0	11004.6	3622.4	1868.1	1491.3	1711.1	1895.6	2013.3	2166.4	2209.6
57.5°	18618.3	17531.2	10184.3	3210.3	1546.3	1365.8	1522.7	1785.7	1934.8	2091.8	2146.8
60°	15211.8	13512.4	8398.7	2362.6	1271.6	1255.9	1416.8	1750.4	1813.2	1950.5	2044.7
62.5°	14057.9	11852.3	6660.1	1805.3	1087.1	1149.9	1306.9	1581.6	1679.7	1848.5	1934.8
65°	11000.7	7872.8	4124.8	1220.6	957.6	1032.2	1181.3	1385.4	1546.3	1703.3	1805.3
67.5°	6514.8	4301.4	2040.8	855.6	835.9	914.4	1067.5	1220.6	1405.0	1577.7	1628.7
70°	3547.8	2115.4	871.3	651.5	710.4	781.0	930.1	1036.1	1212.7	1346.1	1432.5
72.5°	1138.1	643.6	435.6	482.7	541.6	624.0	714.3	843.8	969.4	1047.9	1118.5
75°	274.7	270.8	310.0	337.5	392.5	455.3	529.8	596.5	694.7	769.2	832.0
77.5°	192.3	208.0	239.4	278.6	298.3	321.8	368.9	419.9	463.1	518.0	557.3
80°	149.1	160.9	184.5	204.1	223.7	243.3	266.9	286.5	314.0	349.3	368.9
82.5°	141.3	149.1	172.7	184.5	176.6	172.7	188.4	196.2	200.2	211.9	223.7
85°	11.8	0.0	7.8	27.5	66.7	98.1	106.0	106.0	102.0	109.9	109.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	15.7	11.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7
2.5°	10612.1	10478.7	10529.7	10592.5	10502.2	10294.2	10349.2	10325.6	10537.6	10521.9	10733.8
5°	8897.1	8689.1	8712.6	9018.7	8920.6	9026.6	8814.7	8787.2	8826.4	8846.1	8881.4
7.5°	6809.2	6781.7	7017.2	7276.2	7397.9	7272.3	7064.3	7017.2	6974.0	6887.7	7083.9
10°	5557.2	5565.1	5549.4	5745.6	5883.0	5855.5	5729.9	5714.2	5631.8	5600.4	5710.3
12.5°	4960.7	4854.7	4803.7	4740.9	4846.9	4917.5	4862.6	4823.3	4827.3	4866.5	4882.2
15°	4383.8	4317.1	4207.2	4136.5	4187.6	4152.2	4132.6	4211.1	4191.5	4183.6	4277.8
17.5°	3736.2	3791.2	3783.3	3704.8	3771.5	3744.1	3740.1	3685.2	3610.6	3555.7	3587.1
20°	3308.4	3410.5	3489.0	3492.9	3528.2	3524.3	3465.4	3296.7	3241.7	3229.9	3237.8
22.5°	3155.4	3210.3	3304.5	3438.0	3438.0	3375.2	3304.5	3108.3	3057.3	3002.3	2978.8
25°	3033.7	3139.7	3261.3	3277.0	3339.8	3281.0	3167.2	3069.0	2963.1	2888.5	2888.5
27.5°	2970.9	3088.7	3178.9	3206.4	3292.7	3245.6	3127.9	3002.3	2876.7	2872.8	2806.1
30°	2943.5	3053.3	3112.2	3178.9	3218.2	3143.6	3108.3	2974.9	2849.3	2817.9	2708.0
32.5°	2861.0	3018.0	3127.9	3112.2	3143.6	3112.2	3061.2	2951.3	2810.0	2739.4	2727.6
35°	2766.8	2923.8	3041.6	3124.0	3143.6	3076.9	3045.5	2896.4	2704.1	2668.7	2547.1
37.5°	2715.8	2810.0	2955.2	3088.7	3116.1	3080.8	2974.9	2821.8	2629.5	2590.2	2484.3
40°	2653.0	2774.7	2888.5	2998.4	3080.8	2994.5	2872.8	2723.7	2637.3	2519.6	2488.2
42.5°	2605.9	2743.3	2837.5	2959.2	3053.3	2939.5	2798.2	2696.2	2574.5	2496.0	2405.8
44°	2590.2	2715.8	2778.6	2927.8	3006.2	2919.9	2802.2	2696.2	2554.9	2484.3	2405.8
45°	2535.3	2708.0	2774.7	2908.1	2974.9	2904.2	2755.1	2649.1	2547.1	2460.7	2378.3
47.5°	2480.4	2598.1	2711.9	2817.9	2865.0	2841.4	2715.8	2586.3	2464.7	2413.6	2335.1
50°	2464.7	2582.4	2688.4	2786.5	2841.4	2794.3	2680.5	2554.9	2413.6	2331.2	2264.5
52.5°	2386.2	2531.4	2649.1	2680.5	2751.1	2723.7	2637.3	2500.0	2366.5	2295.9	2240.9
55°	2272.3	2425.4	2586.3	2625.6	2727.6	2684.4	2554.9	2425.4	2311.6	2205.6	2135.0
57.5°	2229.2	2378.3	2535.3	2586.3	2649.1	2578.5	2547.1	2409.7	2229.2	2174.2	2064.3
60°	2119.3	2307.7	2437.2	2554.9	2558.8	2539.2	2484.3	2327.3	2178.2	2076.1	1997.6
62.5°	2032.9	2209.6	2311.6	2421.5	2488.2	2433.3	2378.3	2233.1	2072.2	1958.4	1868.1
65°	1907.4	2068.3	2154.6	2221.3	2295.9	2288.0	2193.9	2087.9	1919.1	1828.9	1742.5
67.5°	1715.1	1856.3	1974.1	2036.9	2084.0	2072.2	2001.5	1927.0	1754.3	1664.0	1601.2
70°	1483.5	1628.7	1703.3	1738.6	1785.7	1809.2	1754.3	1719.0	1565.9	1448.2	1389.3
72.5°	1193.1	1287.3	1397.2	1428.6	1448.2	1463.9	1463.9	1432.5	1275.5	1228.4	1126.4
75°	879.1	953.7	1036.1	1036.1	1071.4	1075.3	1083.2	1063.6	945.8	883.0	859.5
77.5°	596.5	651.5	718.2	745.7	769.2	765.3	761.4	706.4	643.6	616.2	592.6
80°	388.5	443.5	474.9	510.2	533.7	529.8	537.7	498.4	471.0	423.9	431.7
82.5°	231.6	274.7	306.1	349.3	349.3	361.1	361.1	349.3	321.8	298.3	298.3
85°	109.9	145.2	164.8	192.3	208.0	211.9	188.4	160.9	133.4	121.7	133.4
87.5°	19.6	27.5	39.2	35.3	43.2	39.2	39.2	39.2	39.2	31.4	35.3
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: P530550

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7	11989.7
2.5°	10655.3	10851.5	10988.9	11216.5	11609.0	11922.9	12244.8	12484.2	12511.6	12582.3
5°	9010.9	9116.9	9466.1	9921.4	10243.2	10773.0	11114.5	11734.6	11966.1	12213.4
7.5°	7036.8	7209.5	7676.5	7982.6	8689.1	9352.3	10039.1	10804.4	11110.6	11145.9
10°	5934.0	6185.2	6503.1	6993.6	7378.3	8116.1	8971.6	9823.3	10164.7	10223.6
12.5°	5211.9	5533.7	5957.5	6310.8	6679.7	7323.3	8143.6	9195.3	9638.8	9905.7
15°	4517.2	4850.8	5317.8	5808.4	6134.2	6903.4	7868.8	9054.1	9631.0	9866.5
17.5°	3802.9	4113.0	4497.6	5027.4	5682.8	6546.2	7825.7	9525.0	10156.9	10431.6
20°	3190.7	3363.4	3810.8	4356.3	5176.6	6181.3	7841.4	10219.7	11145.9	11267.5
22.5°	2951.3	2990.5	3167.2	3669.5	4568.2	5808.4	8120.0	11204.7	12256.5	12656.8
25°	2766.8	2759.0	2806.1	3143.6	4124.8	5663.2	8394.7	12111.3	13488.9	13924.5
27.5°	2664.8	2586.3	2590.2	2908.1	3810.8	5427.7	8747.9	13151.4	14886.0	15078.3
30°	2613.8	2598.1	2551.0	2680.5	3469.4	5074.5	8806.8	14175.7	15710.2	15988.8
32.5°	2582.4	2429.3	2370.5	2417.6	3147.5	4689.9	9026.6	14850.7	16730.6	16608.9
35°	2425.4	2288.0	2248.8	2295.9	2919.9	4474.0	8881.4	15439.4	17495.9	17700.0
37.5°	2366.5	2244.9	2166.4	2127.1	2708.0	4293.5	8806.8	16346.0	18237.6	18728.2
40°	2311.6	2182.1	2087.9	2048.6	2543.1	4054.1	8783.3	17044.6	19093.2	19387.5
42.5°	2248.8	2166.4	2060.4	1989.8	2343.0	3814.7	8512.5	17260.4	19356.2	19674.0
44°	2229.2	2103.6	1993.7	1970.2	2264.5	3693.1	8457.5	17456.6	19583.8	20066.5
45°	2209.6	2091.8	1966.2	1934.8	2237.0	3626.3	8383.0	17503.7	19960.5	20050.8
47.5°	2154.6	2080.0	1958.4	1872.0	2178.2	3481.1	8159.3	17236.9	19575.9	19591.6
50°	2111.4	2025.1	1899.5	1730.8	2099.7	3359.5	8261.3	17138.7	18649.7	18685.0
52.5°	2064.3	1934.8	1864.2	1573.8	1970.2	3257.4	8477.1	17582.2	18755.7	18747.8
55°	2009.4	1868.1	1695.4	1440.3	1754.3	3127.9	8999.1	18457.4	19736.8	19870.3
57.5°	1923.1	1801.4	1554.1	1322.6	1507.0	2880.7	8830.4	16781.6	18159.1	18182.7
60°	1809.2	1695.4	1408.9	1232.3	1236.3	2272.3	7896.3	13076.8	14328.7	14670.2
62.5°	1699.4	1636.6	1287.3	1102.8	1051.8	1809.2	6675.8	10867.2	12299.7	12582.3
65°	1569.8	1416.8	1181.3	1004.7	902.7	1267.6	4729.1	8120.0	9595.7	9976.3
67.5°	1405.0	1240.2	1040.0	883.0	773.1	847.7	2441.1	4615.3	6110.6	6334.3
70°	1228.4	1075.3	875.2	745.7	624.0	584.8	1075.3	2201.7	3339.8	3571.4
72.5°	1008.6	867.3	698.6	588.7	467.0	404.2	361.1	588.7	1185.2	1377.5
75°	730.0	631.9	525.9	419.9	329.7	259.0	211.9	176.6	196.2	211.9
77.5°	537.7	459.2	388.5	298.3	231.6	184.5	145.2	109.9	106.0	102.0
80°	419.9	372.8	310.0	239.4	180.5	137.4	102.0	74.6	66.7	66.7
82.5°	329.7	306.1	255.1	196.2	149.1	109.9	74.6	51.0	43.2	43.2
85°	125.6	125.6	184.5	160.9	113.8	78.5	51.0	27.5	23.5	23.5
87.5°	31.4	31.4	31.4	31.4	27.5	23.5	23.5	11.8	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)