

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: P527040

Luminaire Tested: **GALN-SA2A-735-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527040
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-SA2A-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA 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: 6380 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

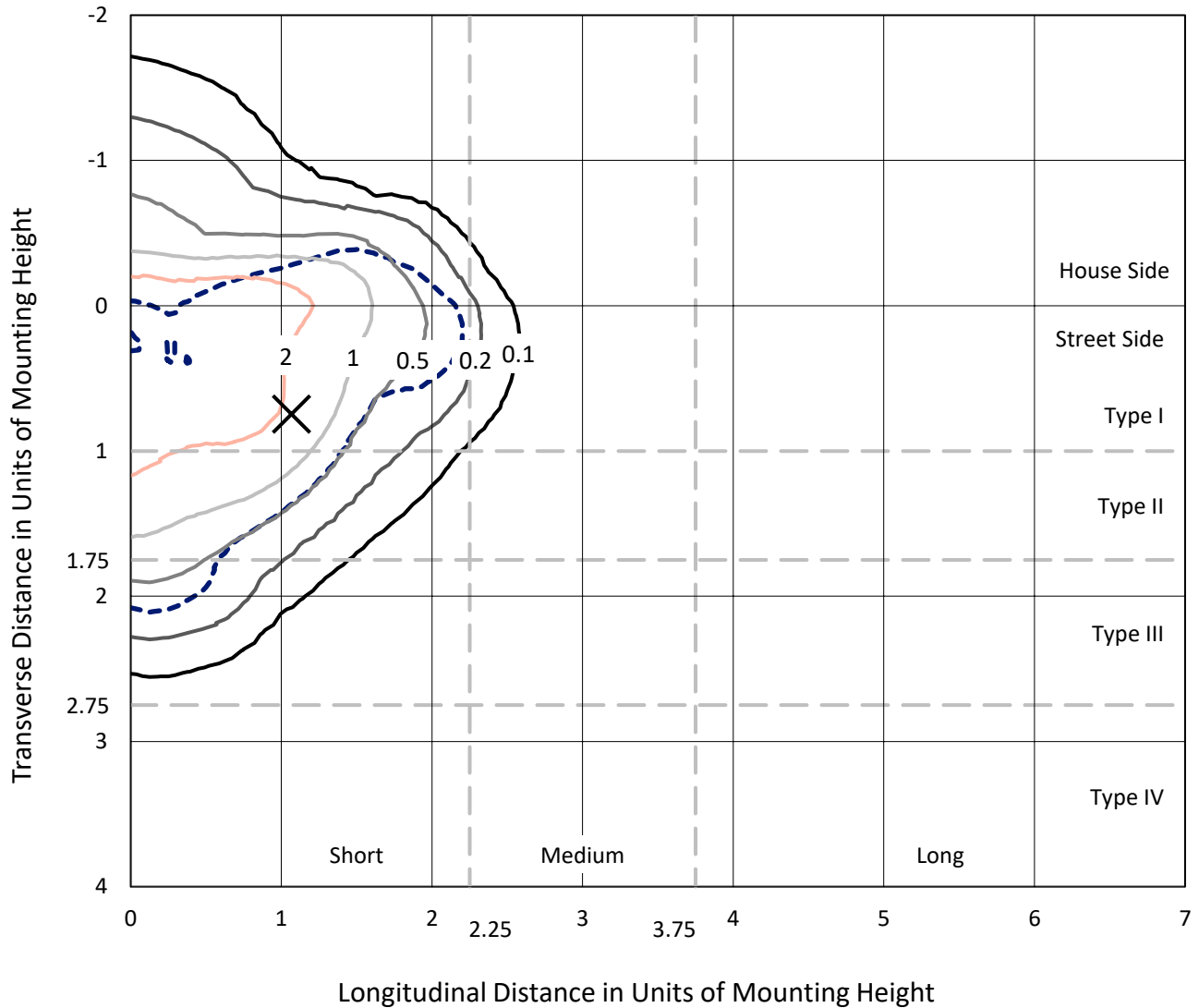
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

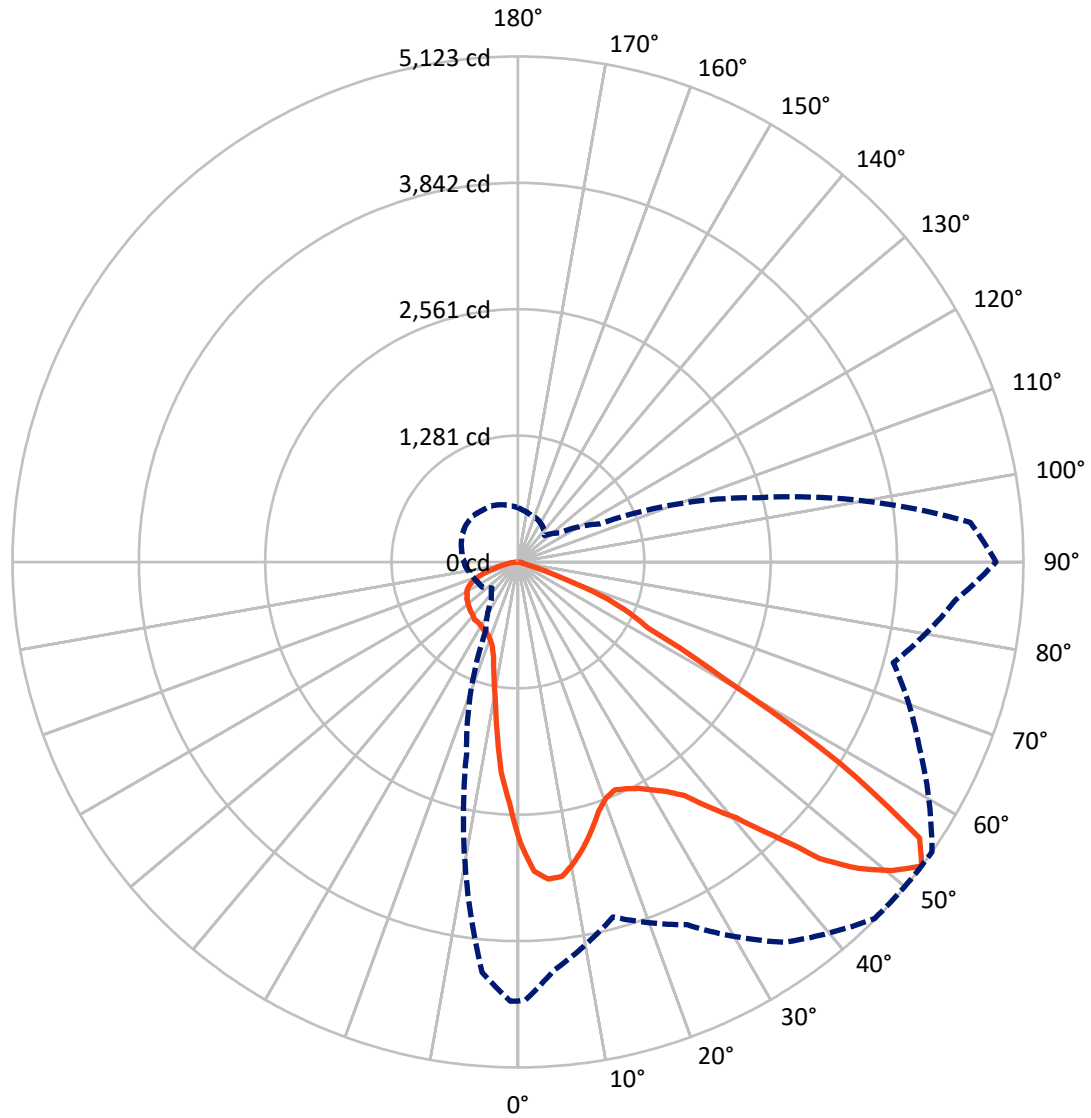
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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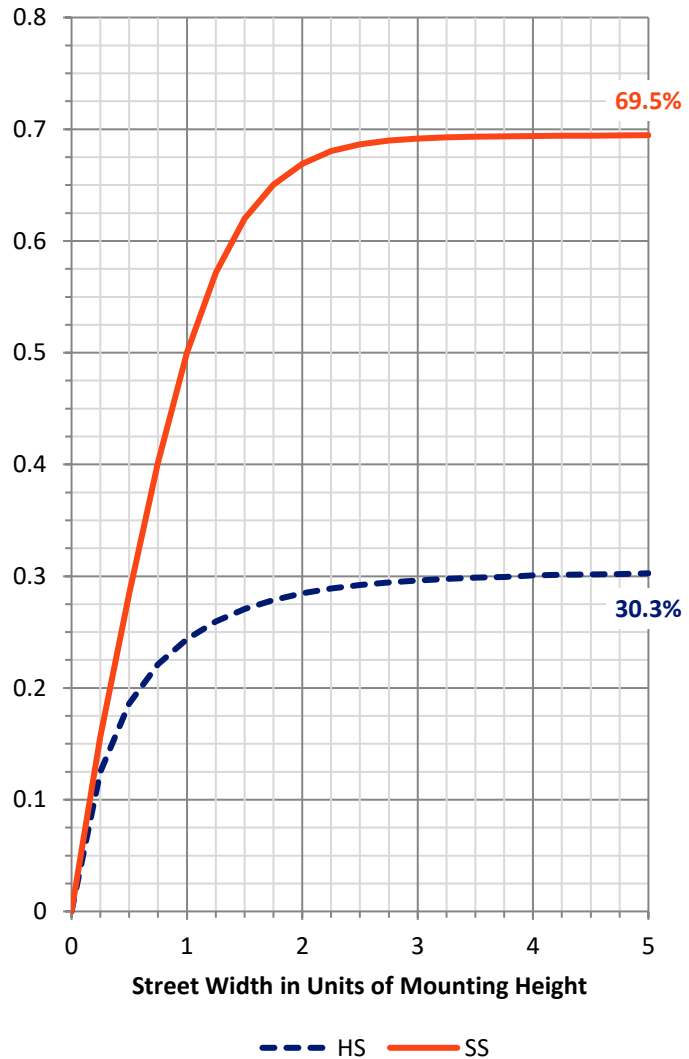
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1946.2	0.0	1946.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4433.8	0.0	4433.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	6380.0	0.0	6380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.4	3.4
10°-20°	468.8	7.3
20°-30°	710.9	11.1
30°-40°	1027.1	16.1
40°-50°	1372.5	21.5
50°-60°	1532.0	24.0
60°-70°	840.4	13.2
70°-80°	181.7	2.8
80°-90°	29.4	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°	6380.0	100.0
0°-180°	6380.0	100.0

Coefficient of Utilization



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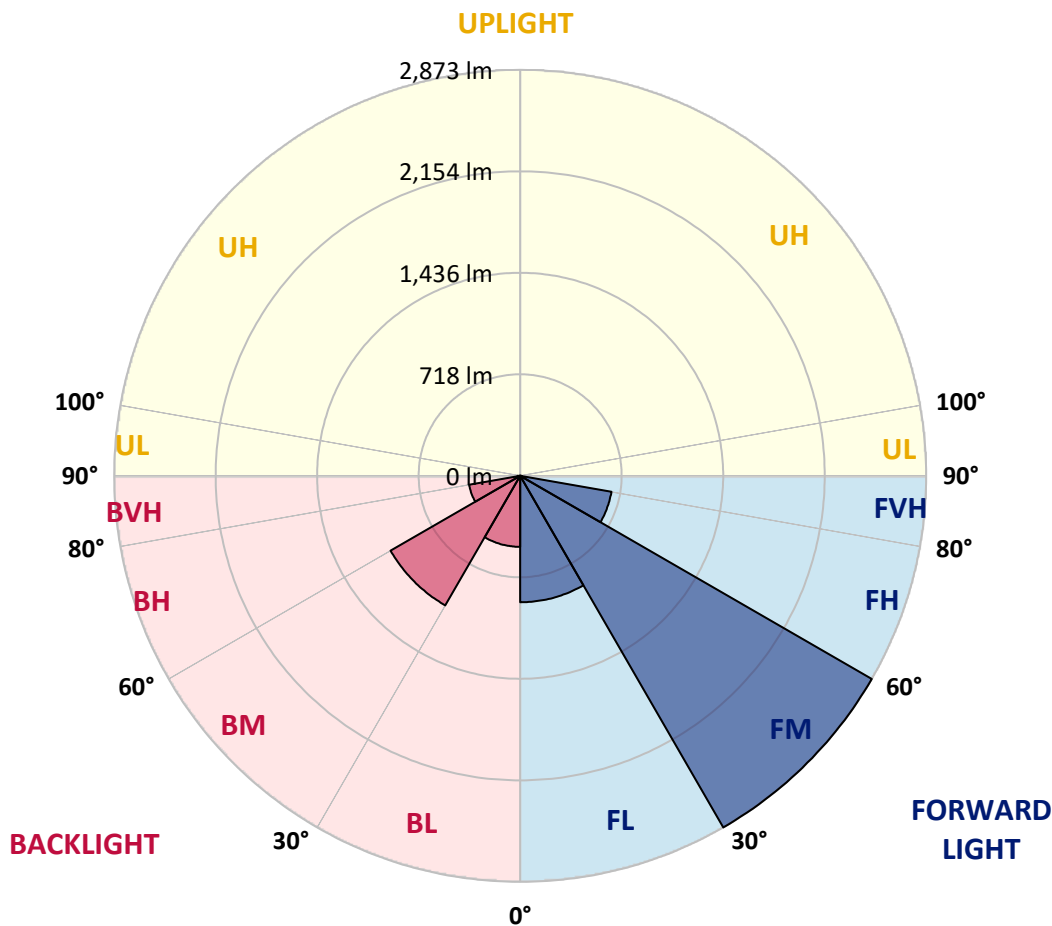
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.6	14.0			
FM (30°-60°)	2872.6	45.0			
FH (60°-80°)	655.7	10.3			G0/660
FVH (80°-90°)	10.9	0.2			G1/100
BL (0°-30°)	502.5	7.9	B2/1000		
BM (30°-60°)	1058.9	16.6	B2/2500		
BH (60°-80°)	366.3	5.7	B1/500		G1/500
BVH (80°-90°)	18.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0
2.5°	2986.6	2969.9	2984.8	3055.6	3096.6	3124.5	3142.2	3139.4	3072.3	3007.1	3007.1
5°	2899.1	2877.6	2908.4	3068.6	3229.8	3243.8	3267.0	3228.9	3130.1	3010.9	2861.8
7.5°	2645.7	2661.5	2712.8	2923.3	3132.9	3238.2	3266.1	3217.7	3057.4	2834.8	2615.9
10°	2426.8	2464.0	2582.3	2809.6	3002.5	3139.4	3170.2	3102.2	2975.5	2702.5	2506.9
12.5°	2351.3	2328.0	2459.4	2686.7	2871.1	2944.7	2958.7	2963.4	2877.6	2635.4	2397.0
15°	2342.0	2356.9	2459.4	2631.7	2745.4	2749.1	2772.4	2808.7	2819.9	2681.1	2448.2
17.5°	2476.1	2458.4	2563.7	2700.6	2646.6	2592.6	2598.2	2650.3	2742.6	2720.2	2609.4
20°	2674.6	2714.6	2797.5	2783.6	2638.2	2501.3	2502.2	2551.6	2733.3	2882.3	2833.9
22.5°	3004.3	3043.5	3105.0	2936.3	2638.2	2474.3	2442.6	2509.7	2792.9	3075.1	3087.3
25°	3305.2	3377.0	3393.7	3195.3	2770.5	2499.4	2478.9	2545.1	2852.5	3263.3	3377.9
27.5°	3579.1	3605.2	3678.8	3362.1	2844.1	2516.2	2514.3	2599.1	2928.0	3357.4	3637.8
30°	3795.3	3792.5	3834.4	3467.3	2961.5	2610.3	2519.9	2680.2	3026.7	3513.0	3878.2
32.5°	3942.4	3974.1	4062.6	3613.6	3010.9	2699.7	2628.9	2775.2	3146.9	3586.6	4047.7
35°	4201.4	4256.4	4144.6	3694.6	3167.4	2788.2	2705.3	2904.7	3206.5	3666.7	4255.5
37.5°	4445.5	4403.6	4289.9	3738.4	3268.9	2952.2	2874.9	3155.3	3391.9	3840.9	4393.3
40°	4602.0	4601.1	4398.9	3773.8	3340.6	3202.8	3198.1	3409.6	3619.2	3950.8	4548.0
42.5°	4670.0	4735.2	4443.6	3770.1	3491.6	3506.5	3600.6	3789.7	3780.3	3973.2	4544.2
44°	4763.2	4802.3	4521.0	3778.5	3592.2	3711.4	3933.1	4053.3	3921.0	3961.1	4539.6
45°	4759.4	4762.2	4411.0	3789.7	3677.9	3882.8	4081.2	4284.3	4044.9	3935.0	4601.1
47.5°	4650.4	4618.8	4317.9	3706.8	3945.2	4335.6	4519.1	4642.1	4197.7	3879.1	4524.7
50°	4435.2	4398.9	4091.5	3671.4	4001.1	4616.9	4870.3	4915.0	4336.5	3824.1	4449.2
52.5°	4450.2	4439.9	4155.8	3724.5	4057.0	4705.4	5111.6	5122.8	4493.9	3939.6	4450.2
55°	4716.6	4681.2	4340.2	3790.6	4016.0	4602.0	4957.9	4938.3	4440.8	3869.8	4532.1
57.5°	4316.0	4339.3	4085.0	3528.8	3514.8	3741.2	3897.7	3849.3	3705.8	3492.5	4216.3
60°	3482.2	3548.4	3572.6	2951.2	2652.2	2535.8	2489.2	2403.5	2427.7	2869.3	3704.0
62.5°	2986.6	2982.9	3134.8	2675.5	1737.4	1494.3	1471.9	1491.5	1770.9	2824.5	3627.6
65°	2368.1	2431.4	2478.0	2267.5	1375.0	1109.5	1108.6	1232.5	1532.4	2360.6	2928.9
67.5°	1503.6	1586.5	1644.2	1450.5	919.5	790.0	768.6	917.6	1062.0	1548.3	1763.5
70°	847.7	886.9	912.9	836.6	585.0	409.9	385.7	421.1	641.9	1002.4	1045.2
72.5°	327.0	344.7	380.1	382.9	220.8	132.3	107.1	128.6	270.2	396.9	378.2
75°	50.3	54.0	76.4	91.3	63.3	48.4	51.2	53.1	75.5	102.5	85.7
77.5°	24.2	24.2	23.3	27.0	31.7	34.5	37.3	41.0	44.7	49.4	47.5
80°	15.8	15.8	15.8	18.6	23.3	27.9	31.7	33.5	35.4	39.1	37.3
82.5°	10.2	10.2	10.2	14.0	18.6	23.3	25.2	29.8	33.5	39.1	36.3
85°	5.6	5.6	5.6	9.3	14.0	19.6	18.6	14.9	8.4	0.9	1.9
87.5°	1.9	1.9	1.9	1.9	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°	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0
2.5°	2928.9	2886.0	2882.3	2794.7	2716.5	2678.3	2647.5	2561.8	2580.5	2531.1	2530.2
5°	2787.3	2699.7	2558.1	2441.7	2325.2	2301.9	2200.4	2111.9	2114.7	2051.3	2062.5
7.5°	2533.0	2472.4	2300.1	2117.5	1962.8	1852.9	1757.0	1699.2	1625.6	1600.5	1587.4
10°	2371.8	2297.3	2103.5	1874.3	1701.1	1642.4	1550.1	1498.9	1423.5	1386.2	1360.1
12.5°	2301.0	2192.0	1949.8	1716.9	1601.4	1540.8	1462.6	1369.4	1280.0	1245.5	1198.0
15°	2308.5	2178.0	1905.1	1653.6	1514.7	1397.4	1327.5	1224.1	1132.8	1072.2	1037.8
17.5°	2421.2	2262.8	1925.6	1605.1	1405.8	1258.6	1121.6	1009.8	937.2	891.5	880.3
20°	2687.6	2472.4	1960.0	1526.9	1296.8	1113.2	944.6	828.2	772.3	771.3	772.3
22.5°	2909.3	2696.0	2029.9	1480.3	1187.8	926.9	759.2	722.0	710.8	734.1	736.9
25°	3208.4	2947.5	2150.1	1456.1	1087.2	790.0	686.6	672.6	671.7	701.5	702.4
27.5°	3514.8	3167.4	2221.8	1385.3	984.7	719.2	642.8	640.0	654.9	686.6	683.8
30°	3723.5	3351.8	2351.3	1300.5	863.6	656.8	625.1	628.8	649.3	673.5	677.3
32.5°	3966.7	3533.5	2384.8	1253.9	789.0	604.6	582.2	590.6	616.7	654.9	675.4
35°	4245.2	3662.0	2436.1	1190.6	761.1	564.5	553.4	562.7	594.3	619.5	641.9
37.5°	4451.1	3889.3	2445.4	1141.2	730.4	542.2	524.5	555.2	573.9	609.3	620.4
40°	4603.9	4054.2	2469.6	1110.4	706.1	513.3	513.3	533.8	558.9	591.6	613.9
42.5°	4701.7	4174.4	2487.3	1082.5	659.6	504.9	500.3	520.8	554.3	586.0	596.2
44°	4761.3	4225.6	2469.6	1056.4	646.5	494.7	494.7	512.4	538.5	575.7	587.8
45°	4776.2	4289.9	2430.5	1055.5	630.7	482.6	480.7	514.2	531.9	577.6	585.0
47.5°	4834.0	4369.1	2435.1	1025.7	592.5	453.7	486.3	501.2	517.0	557.1	582.2
50°	4832.1	4418.5	2424.9	981.9	564.5	421.1	475.1	491.9	507.7	548.7	558.9
52.5°	4845.1	4602.9	2519.0	912.0	514.2	379.2	437.8	475.1	494.7	529.1	550.6
55°	4838.6	4708.2	2612.1	859.8	443.4	354.0	406.2	450.0	477.9	514.2	524.5
57.5°	4419.4	4161.4	2417.4	762.0	367.0	324.2	361.5	423.9	459.3	496.5	509.6
60°	3610.8	3207.4	1993.6	560.8	301.8	298.1	336.3	415.5	430.4	463.0	485.4
62.5°	3336.9	2813.4	1580.9	428.5	258.0	273.0	310.2	375.4	398.7	438.8	459.3
65°	2611.2	1868.7	979.1	289.7	227.3	245.0	280.4	328.8	367.0	404.3	428.5
67.5°	1546.4	1021.0	484.4	203.1	198.4	217.1	253.4	289.7	333.5	374.5	386.6
70°	842.1	502.1	206.8	154.6	168.6	185.4	220.8	245.9	287.9	319.5	340.0
72.5°	270.2	152.8	103.4	114.6	128.6	148.1	169.5	200.3	230.1	248.7	265.5
75°	65.2	64.3	73.6	80.1	93.2	108.1	125.8	141.6	164.9	182.6	197.5
77.5°	45.6	49.4	56.8	66.1	70.8	76.4	87.6	99.7	109.9	123.0	132.3
80°	35.4	38.2	43.8	48.4	53.1	57.8	63.3	68.0	74.5	82.9	87.6
82.5°	33.5	35.4	41.0	43.8	41.9	41.0	44.7	46.6	47.5	50.3	53.1
85°	2.8	0.0	1.9	6.5	15.8	23.3	25.2	25.2	24.2	26.1	26.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.7	2.8
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°	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0
2.5°	2519.0	2487.3	2499.4	2514.3	2492.9	2443.5	2456.6	2451.0	2501.3	2497.6	2547.9
5°	2111.9	2062.5	2068.1	2140.8	2117.5	2142.6	2092.3	2085.8	2095.1	2099.8	2108.2
7.5°	1616.3	1609.8	1665.7	1727.1	1756.0	1726.2	1676.8	1665.7	1655.4	1634.9	1681.5
10°	1319.1	1321.0	1317.3	1363.8	1396.4	1389.9	1360.1	1356.4	1336.8	1329.4	1355.4
12.5°	1177.5	1152.4	1140.3	1125.3	1150.5	1167.3	1154.2	1144.9	1145.8	1155.2	1158.9
15°	1040.6	1024.7	998.7	981.9	994.0	985.6	981.0	999.6	994.9	993.1	1015.4
17.5°	886.9	899.9	898.0	879.4	895.2	888.7	887.8	874.8	857.1	844.0	851.5
20°	785.3	809.5	828.2	829.1	837.5	836.6	822.6	782.5	769.5	766.7	768.6
22.5°	749.0	762.0	784.4	816.1	816.1	801.2	784.4	737.8	725.7	712.7	707.1
25°	720.1	745.3	774.1	777.9	792.8	778.8	751.8	728.5	703.3	685.6	685.6
27.5°	705.2	733.2	754.6	761.1	781.6	770.4	742.5	712.7	682.8	681.9	666.1
30°	698.7	724.8	738.7	754.6	763.9	746.2	737.8	706.1	676.3	668.9	642.8
32.5°	679.1	716.4	742.5	738.7	746.2	738.7	726.6	700.5	667.0	650.2	647.4
35°	656.8	694.0	722.0	741.5	746.2	730.4	722.9	687.5	641.9	633.5	604.6
37.5°	644.7	667.0	701.5	733.2	739.7	731.3	706.1	669.8	624.2	614.8	589.7
40°	629.7	658.6	685.6	711.7	731.3	710.8	681.9	646.5	626.0	598.1	590.6
42.5°	618.6	651.2	673.5	702.4	724.8	697.8	664.2	640.0	611.1	592.5	571.1
44°	614.8	644.7	659.6	695.0	713.6	693.1	665.1	640.0	606.5	589.7	571.1
45°	601.8	642.8	658.6	690.3	706.1	689.4	654.0	628.8	604.6	584.1	564.5
47.5°	588.8	616.7	643.7	668.9	680.1	674.5	644.7	613.9	585.0	572.9	554.3
50°	585.0	613.0	638.1	661.4	674.5	663.3	636.3	606.5	572.9	553.4	537.5
52.5°	566.4	600.9	628.8	636.3	653.0	646.5	626.0	593.4	561.7	545.0	531.9
55°	539.4	575.7	613.9	623.2	647.4	637.2	606.5	575.7	548.7	523.5	506.8
57.5°	529.1	564.5	601.8	613.9	628.8	612.0	604.6	572.0	529.1	516.1	490.0
60°	503.1	547.8	578.5	606.5	607.4	602.7	589.7	552.4	517.0	492.8	474.2
62.5°	482.6	524.5	548.7	574.8	590.6	577.6	564.5	530.1	491.9	464.9	443.4
65°	452.7	490.9	511.4	527.3	545.0	543.1	520.8	495.6	455.5	434.1	413.6
67.5°	407.1	440.6	468.6	483.5	494.7	491.9	475.1	457.4	416.4	395.0	380.1
70°	352.1	386.6	404.3	412.7	423.9	429.5	416.4	408.0	371.7	343.8	329.8
72.5°	283.2	305.6	331.6	339.1	343.8	347.5	347.5	340.0	302.8	291.6	267.4
75°	208.7	226.4	245.9	245.9	254.3	255.3	257.1	252.5	224.5	209.6	204.0
77.5°	141.6	154.6	170.5	177.0	182.6	181.7	180.7	167.7	152.8	146.3	140.7
80°	92.2	105.3	112.7	121.1	126.7	125.8	127.6	118.3	111.8	100.6	102.5
82.5°	55.0	65.2	72.7	82.9	82.9	85.7	85.7	82.9	76.4	70.8	70.8
85°	26.1	34.5	39.1	45.6	49.4	50.3	44.7	38.2	31.7	28.9	31.7
87.5°	4.7	6.5	9.3	8.4	10.2	9.3	9.3	9.3	9.3	7.5	8.4
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: P527040

CATALOG NUMBER: GALN-SA2A-735-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0	2846.0
2.5°	2529.2	2575.8	2608.4	2662.5	2755.6	2830.1	2906.5	2963.4	2969.9	2986.6
5°	2138.9	2164.1	2247.0	2355.0	2431.4	2557.2	2638.2	2785.4	2840.4	2899.1
7.5°	1670.3	1711.3	1822.2	1894.8	2062.5	2220.0	2383.0	2564.6	2637.3	2645.7
10°	1408.5	1468.2	1543.6	1660.1	1751.4	1926.5	2129.6	2331.7	2412.8	2426.8
12.5°	1237.1	1313.5	1414.1	1498.0	1585.5	1738.3	1933.0	2182.7	2288.0	2351.3
15°	1072.2	1151.4	1262.3	1378.7	1456.1	1638.6	1867.8	2149.2	2286.1	2342.0
17.5°	902.7	976.3	1067.6	1193.4	1348.9	1553.9	1857.6	2260.9	2410.9	2476.1
20°	757.4	798.4	904.6	1034.1	1228.8	1467.2	1861.3	2425.8	2645.7	2674.6
22.5°	700.5	709.9	751.8	871.0	1084.4	1378.7	1927.4	2659.7	2909.3	3004.3
25°	656.8	654.9	666.1	746.2	979.1	1344.3	1992.6	2874.9	3201.8	3305.2
27.5°	632.5	613.9	614.8	690.3	904.6	1288.4	2076.5	3121.7	3533.5	3579.1
30°	620.4	616.7	605.5	636.3	823.5	1204.5	2090.5	3364.9	3729.1	3795.3
32.5°	613.0	576.6	562.7	573.9	747.1	1113.2	2142.6	3525.1	3971.3	3942.4
35°	575.7	543.1	533.8	545.0	693.1	1062.0	2108.2	3664.8	4153.0	4201.4
37.5°	561.7	532.9	514.2	504.9	642.8	1019.1	2090.5	3880.0	4329.0	4445.5
40°	548.7	518.0	495.6	486.3	603.7	962.3	2084.9	4045.8	4532.1	4602.0
42.5°	533.8	514.2	489.1	472.3	556.2	905.5	2020.6	4097.1	4594.5	4670.0
44°	529.1	499.3	473.2	467.7	537.5	876.6	2007.6	4143.7	4648.6	4763.2
45°	524.5	496.5	466.7	459.3	531.0	860.8	1989.9	4154.8	4738.0	4759.4
47.5°	511.4	493.7	464.9	444.4	517.0	826.3	1936.8	4091.5	4646.7	4650.4
50°	501.2	480.7	450.9	410.8	498.4	797.4	1961.0	4068.2	4426.9	4435.2
52.5°	490.0	459.3	442.5	373.6	467.7	773.2	2012.2	4173.5	4452.0	4450.2
55°	477.0	443.4	402.4	341.9	416.4	742.5	2136.1	4381.2	4684.9	4716.6
57.5°	456.5	427.6	368.9	313.9	357.7	683.8	2096.1	3983.4	4310.4	4316.0
60°	429.5	402.4	334.4	292.5	293.4	539.4	1874.3	3104.0	3401.2	3482.2
62.5°	403.4	388.5	305.6	261.8	249.7	429.5	1584.6	2579.5	2919.6	2986.6
65°	372.6	336.3	280.4	238.5	214.3	300.9	1122.6	1927.4	2277.7	2368.1
67.5°	333.5	294.4	246.9	209.6	183.5	201.2	579.4	1095.5	1450.5	1503.6
70°	291.6	255.3	207.7	177.0	148.1	138.8	255.3	522.6	792.8	847.7
72.5°	239.4	205.9	165.8	139.7	110.9	96.0	85.7	139.7	281.3	327.0
75°	173.3	150.0	124.8	99.7	78.3	61.5	50.3	41.9	46.6	50.3
77.5°	127.6	109.0	92.2	70.8	55.0	43.8	34.5	26.1	25.2	24.2
80°	99.7	88.5	73.6	56.8	42.9	32.6	24.2	17.7	15.8	15.8
82.5°	78.3	72.7	60.6	46.6	35.4	26.1	17.7	12.1	10.2	10.2
85°	29.8	29.8	43.8	38.2	27.0	18.6	12.1	6.5	5.6	5.6
87.5°	7.5	7.5	7.5	7.5	6.5	5.6	5.6	2.8	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)