

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: P527039

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
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-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

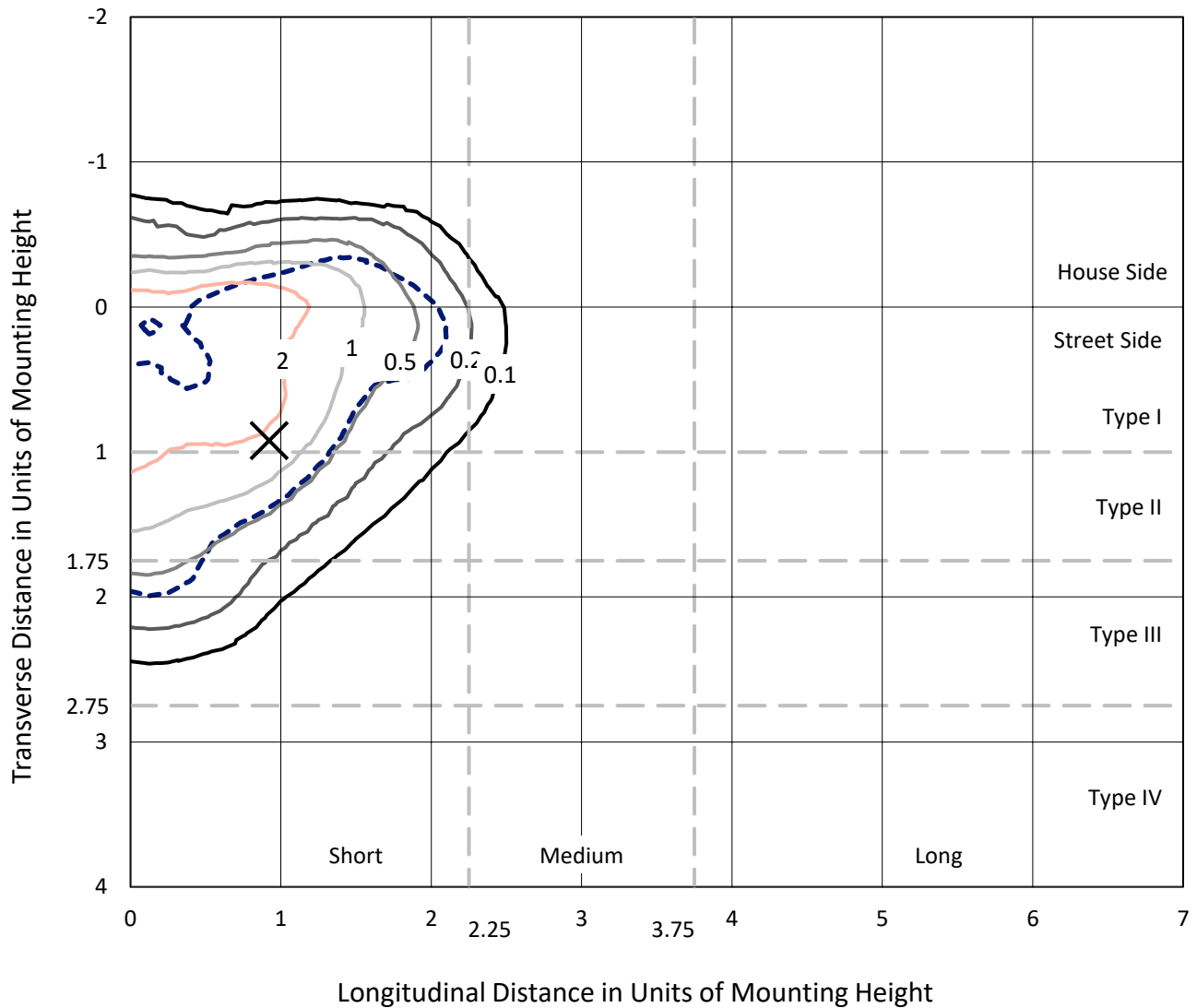
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527039
 CATALOG NUMBER: GALN-SA2A-735-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

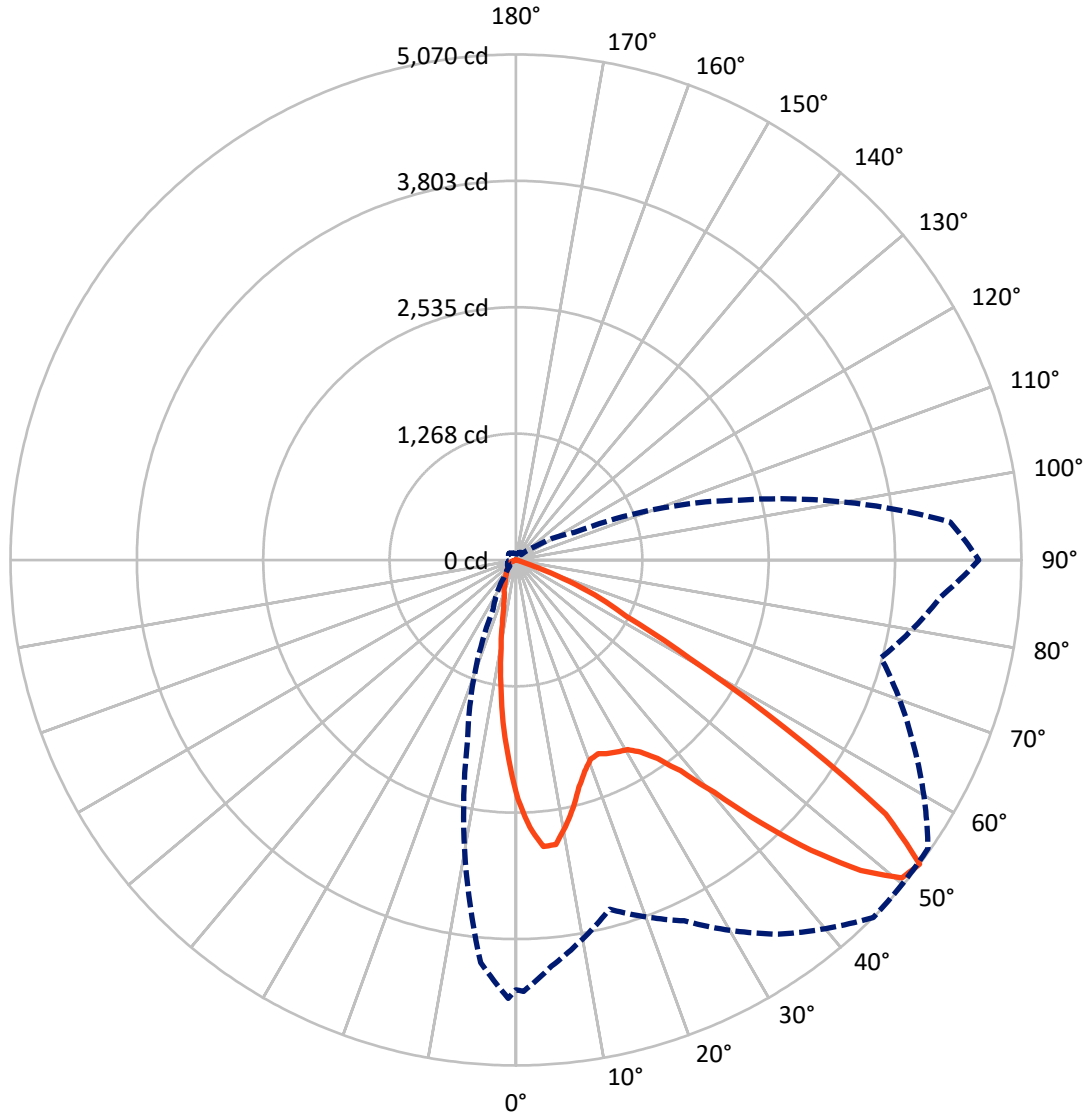
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

REPORT NUMBER: P527039
CATALOG NUMBER: GALN-SA2A-735-U-SLL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P527039
 CATALOG NUMBER: GALN-SA2A-735-U-SLL-GRSBK

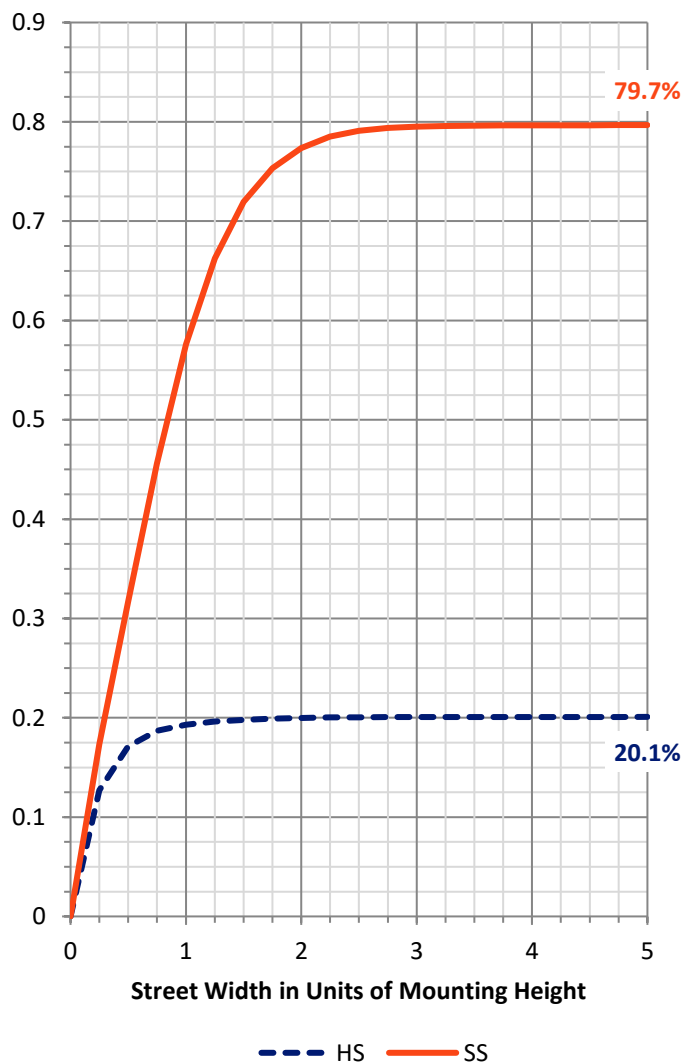
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	961.2	0.0	961.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	3774.8	0.0	3774.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	4736.0	0.0	4736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	3.7
10°-20°	345.5	7.3
20°-30°	525.8	11.1
30°-40°	785.9	16.6
40°-50°	1119.2	23.6
50°-60°	1203.1	25.4
60°-70°	533.1	11.3
70°-80°	43.1	0.9
80°-90°	5.0	0.1
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°	4736.0	100.0
0°-180°	4736.0	100.0

Coefficient of Utilization

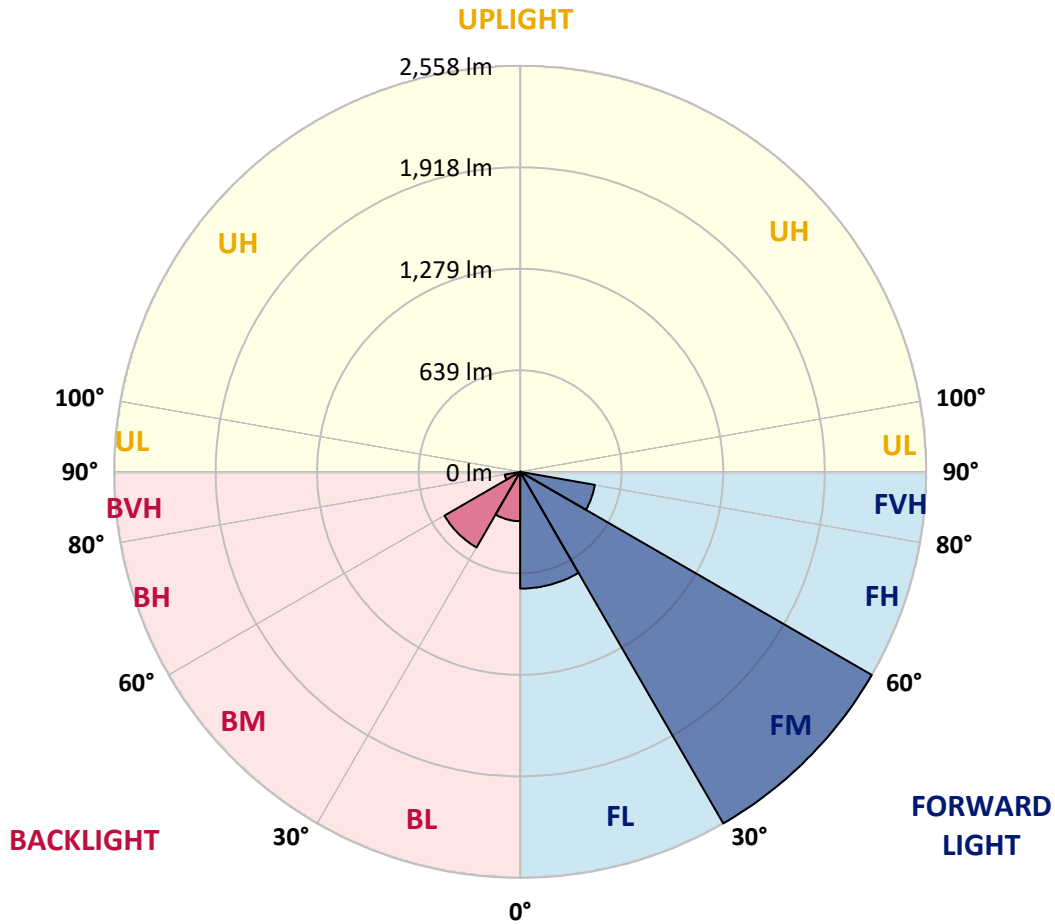


REPORT NUMBER: P527039
 CATALOG NUMBER: GALN-SA2A-735-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.6	15.5			
FM (30°-60°)	2557.6	54.0			
FH (60°-80°)	477.9	10.1			G0/660
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	310.9	6.6	B1/500		
BM (30°-60°)	550.6	11.6	B1/1000		
BH (60°-80°)	98.3	2.1	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type III Short





REPORT NUMBER: P527039

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4
2.5°	2541.1	2548.5	2589.5	2640.8	2667.8	2729.3	2686.4	2697.6	2674.3	2592.3	2528.1
5°	2463.8	2462.9	2515.0	2641.7	2761.9	2883.9	2887.6	2822.4	2707.8	2582.1	2402.3
7.5°	2230.9	2267.2	2321.3	2523.4	2746.0	2837.3	2881.1	2804.7	2628.7	2448.9	2254.2
10°	2054.9	2073.5	2164.8	2408.8	2571.8	2693.9	2720.9	2677.1	2542.0	2317.5	2099.6
12.5°	1953.3	1962.6	2069.8	2274.7	2447.0	2537.4	2550.4	2570.9	2474.0	2263.5	2001.8
15°	1954.3	1961.7	2106.1	2277.5	2345.5	2321.3	2364.1	2363.2	2405.1	2253.3	2083.7
17.5°	2094.9	2103.3	2233.7	2318.5	2288.7	2231.8	2229.0	2271.9	2360.4	2380.9	2207.6
20°	2337.1	2356.7	2452.6	2447.9	2280.3	2165.7	2134.0	2166.6	2372.5	2488.9	2457.3
22.5°	2663.1	2690.1	2757.2	2628.7	2318.5	2121.0	2110.7	2174.1	2452.6	2730.2	2740.4
25°	3041.3	3086.9	3119.5	2954.7	2454.5	2198.3	2149.9	2258.9	2560.7	2991.9	3100.9
27.5°	3291.9	3339.4	3331.9	3096.3	2545.8	2218.8	2177.8	2279.3	2654.7	3054.3	3289.1
30°	3487.5	3516.4	3568.5	3172.6	2637.0	2276.6	2206.7	2366.0	2685.5	3162.4	3516.4
32.5°	3715.7	3735.3	3739.0	3307.7	2777.7	2349.2	2296.1	2474.0	2821.5	3265.8	3717.6
35°	3945.8	3974.7	3914.1	3474.4	2864.3	2484.3	2445.2	2661.3	2930.5	3372.9	3939.3
37.5°	4195.4	4210.3	4070.6	3543.4	2988.2	2704.1	2682.7	2863.4	3119.5	3566.7	4185.2
40°	4405.0	4419.0	4237.3	3628.1	3118.6	3011.5	3066.5	3249.0	3376.6	3692.4	4308.1
42.5°	4521.4	4554.0	4293.2	3581.6	3380.4	3359.9	3603.9	3668.2	3674.7	3727.8	4418.0
45°	4553.1	4538.2	4201.0	3619.8	3609.5	3932.7	4154.4	4239.2	3970.9	3793.0	4446.0
47.5°	4406.9	4426.4	4065.0	3586.2	3910.4	4366.8	4653.7	4811.1	4191.7	3736.2	4377.1
50°	4288.6	4263.4	4021.2	3562.0	3991.4	4571.7	5014.2	5049.6	4394.8	3806.1	4301.6
52.5°	4311.9	4327.7	4091.1	3626.3	3993.3	4583.8	5070.1	5045.9	4401.3	3790.2	4274.6
55°	4361.2	4291.4	4061.3	3484.7	3725.9	4245.7	4500.0	4462.8	4062.2	3621.6	4208.5
57.5°	3763.2	3871.3	3734.3	3111.2	3058.1	3198.7	3194.1	3308.6	3030.1	3116.8	3831.2
60°	3054.3	3073.0	3124.2	2661.3	2116.3	2067.9	2000.8	1928.2	2039.0	2665.0	3484.7
62.5°	2686.4	2664.1	2846.6	2420.9	1494.1	1251.0	1239.8	1284.5	1573.3	2542.0	3268.6
65°	1952.4	1980.3	2112.6	1878.8	1121.5	954.8	938.0	1070.3	1273.3	2037.2	2494.5
67.5°	1192.3	1246.3	1258.4	1158.8	761.0	604.5	580.3	700.5	919.4	1318.1	1462.4
70°	550.5	615.7	677.2	632.5	440.6	248.7	234.7	294.3	463.9	758.2	775.9
72.5°	166.7	167.7	234.7	245.0	142.5	55.9	49.4	65.2	157.4	250.6	263.6
75°	12.1	13.0	31.7	36.3	27.0	14.0	14.9	17.7	33.5	55.9	41.9
77.5°	0.9	0.9	0.9	4.7	8.4	9.3	12.1	14.0	17.7	20.5	18.6
80°	0.9	0.0	0.9	3.7	6.5	9.3	11.2	13.0	14.0	15.8	14.0
82.5°	0.0	0.0	0.0	2.8	6.5	9.3	10.2	14.0	15.8	18.6	15.8
85°	0.0	0.0	0.0	2.8	6.5	10.2	9.3	4.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P527039

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4
2.5°	2539.2	2502.9	2420.0	2378.1	2279.3	2265.4	2168.5	2152.7	2120.1	2102.4	2059.5
5°	2323.1	2279.3	2144.3	2030.6	1898.4	1806.2	1735.4	1671.1	1633.8	1599.4	1615.2
7.5°	2147.1	2019.5	1869.5	1679.5	1526.7	1428.0	1319.9	1231.4	1179.3	1143.9	1152.2
10°	1962.6	1879.7	1671.1	1457.8	1273.3	1203.5	1118.7	1050.7	977.1	913.8	884.0
12.5°	1904.9	1781.9	1520.2	1303.1	1163.4	1095.4	998.6	920.3	826.2	748.9	721.9
15°	1915.1	1796.8	1479.2	1247.3	1082.4	965.0	849.5	752.6	649.2	595.2	567.3
17.5°	2081.9	1876.9	1506.2	1188.6	969.7	806.7	664.1	541.2	463.9	408.0	395.9
20°	2286.8	2050.2	1564.0	1145.7	877.5	641.8	485.3	379.1	314.8	305.5	302.7
22.5°	2586.7	2333.4	1687.9	1116.9	764.8	500.2	332.5	275.7	258.0	256.2	257.1
25°	3005.9	2688.3	1822.9	1092.6	680.0	385.6	272.0	233.8	228.2	225.4	230.1
27.5°	3187.5	2902.5	1894.6	1040.5	602.7	347.4	268.3	231.9	216.1	211.4	214.2
30°	3412.0	3045.0	2007.4	951.0	489.0	286.0	250.6	252.4	245.0	221.7	214.2
32.5°	3710.1	3222.9	2064.2	887.7	436.9	236.6	183.5	168.6	188.2	191.9	198.4
35°	3901.1	3403.7	2093.1	850.4	409.9	202.1	155.6	141.6	136.9	137.9	141.6
37.5°	4256.0	3647.7	2129.4	811.3	389.4	176.1	140.7	127.6	121.1	121.1	124.8
40°	4468.3	3841.5	2178.7	789.9	368.9	160.2	127.6	116.4	110.8	110.8	112.7
42.5°	4521.4	3937.4	2162.0	782.4	345.6	156.5	116.4	108.1	101.5	100.6	99.7
45°	4616.4	4083.6	2164.8	774.1	321.4	142.5	109.9	100.6	91.3	90.4	89.4
47.5°	4720.8	4188.9	2170.4	741.5	298.1	119.2	114.6	93.1	82.0	80.1	80.1
50°	4631.4	4272.7	2218.8	708.9	268.3	96.9	112.7	87.6	72.7	69.9	70.8
52.5°	4642.5	4371.5	2321.3	663.2	231.0	77.3	91.3	82.9	66.1	61.5	62.4
55°	4463.7	4267.1	2335.2	614.8	180.7	59.6	69.9	72.7	55.9	54.0	54.0
57.5°	3842.4	3613.2	2060.4	498.3	119.2	49.4	50.3	63.3	48.4	46.6	47.5
60°	3288.1	2900.6	1658.0	328.8	74.5	39.1	36.3	64.3	42.8	41.9	44.7
62.5°	2997.5	2383.7	1257.5	204.0	51.2	29.8	25.2	52.2	37.3	37.3	41.0
65°	2165.7	1601.2	731.2	107.1	36.3	23.3	18.6	29.8	30.7	31.7	33.5
67.5°	1341.3	808.5	308.3	52.2	24.2	15.8	12.1	18.6	20.5	20.5	22.4
70°	662.3	322.3	102.5	29.8	18.6	13.0	8.4	10.2	10.2	9.3	10.2
72.5°	204.9	96.9	26.1	18.6	13.0	8.4	4.7	3.7	1.9	0.0	0.9
75°	23.3	18.6	16.8	13.0	8.4	3.7	0.9	0.0	0.0	0.0	0.0
77.5°	14.0	15.8	15.8	13.0	8.4	2.8	0.0	0.0	0.0	0.0	0.0
80°	11.2	12.1	13.0	12.1	7.5	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	14.0	15.8	17.7	15.8	10.2	4.7	1.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.8	0.9	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P527039

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4
2.5°	2041.8	2021.3	2050.2	2007.4	2006.4	2007.4	1995.2	1984.1	2001.8	2049.3	2053.9
5°	1558.4	1602.2	1616.1	1661.8	1636.6	1599.4	1606.8	1581.7	1643.1	1670.2	1648.7
7.5°	1134.6	1131.8	1225.8	1231.4	1243.5	1244.5	1242.6	1193.2	1142.9	1154.1	1187.6
10°	880.3	832.7	878.4	873.7	903.5	895.2	907.3	854.2	871.9	871.9	893.3
12.5°	717.2	666.9	658.6	646.5	658.6	663.2	667.9	657.6	687.4	701.4	716.3
15°	547.7	519.8	512.3	489.0	492.8	505.8	517.0	521.6	512.3	533.7	535.6
17.5°	397.7	396.8	401.5	400.5	396.8	394.0	393.1	381.0	377.3	379.1	386.6
20°	301.8	309.3	325.1	340.9	349.3	339.1	325.1	304.6	296.2	298.1	299.0
22.5°	258.0	269.2	290.6	308.3	316.7	298.1	272.9	255.2	251.5	250.6	249.6
25°	233.8	246.8	262.7	268.3	267.3	256.2	237.5	230.1	228.2	226.4	218.0
27.5°	220.8	225.4	228.2	234.7	237.5	230.1	225.4	214.2	212.4	212.4	206.8
30°	213.3	210.5	214.2	209.6	213.3	207.7	208.7	208.7	204.0	205.9	205.9
32.5°	198.4	199.3	199.3	190.0	192.8	186.3	192.8	198.4	199.3	200.3	207.7
35°	145.3	162.1	170.5	170.5	173.3	168.6	167.7	161.1	152.8	144.4	140.7
37.5°	127.6	134.1	145.3	151.8	156.5	152.8	144.4	134.1	129.5	125.8	122.0
40°	113.6	119.2	126.7	134.1	143.4	138.8	125.8	121.1	115.5	115.5	111.8
42.5°	102.5	105.3	109.9	121.1	131.3	122.0	112.7	109.0	106.2	105.3	104.3
45°	92.2	93.1	97.8	107.1	119.2	109.9	100.6	95.9	96.9	97.8	96.9
47.5°	82.9	84.8	87.6	98.7	106.2	101.5	91.3	88.5	88.5	88.5	89.4
50°	71.7	76.4	82.0	91.3	96.9	94.1	85.7	82.0	80.1	80.1	81.0
52.5°	64.3	68.0	75.5	86.6	94.1	89.4	81.0	75.5	71.7	70.8	72.7
55°	55.9	62.4	74.5	82.9	93.1	88.5	79.2	72.7	66.1	65.2	65.2
57.5°	50.3	60.5	71.7	82.0	90.4	86.6	79.2	70.8	62.4	61.5	61.5
60°	47.5	58.7	69.9	79.2	90.4	84.8	78.2	68.9	59.6	59.6	58.7
62.5°	44.7	55.0	66.1	75.5	86.6	82.0	75.5	66.1	56.8	56.8	55.0
65°	37.3	47.5	55.0	63.3	75.5	70.8	64.3	57.8	50.3	48.4	49.4
67.5°	26.1	32.6	40.1	48.4	55.9	54.0	51.2	46.6	40.1	39.1	38.2
70°	13.0	17.7	24.2	32.6	39.1	37.3	35.4	31.7	27.9	27.0	27.0
72.5°	1.9	5.6	10.2	14.9	20.5	21.4	20.5	19.6	18.6	17.7	18.6
75°	0.0	0.0	0.0	3.7	8.4	10.2	12.1	14.0	14.0	12.1	14.9
77.5°	0.0	0.0	0.0	0.0	0.9	4.7	9.3	12.1	14.9	13.0	17.7
80°	0.0	0.0	0.0	0.0	0.9	5.6	9.3	13.0	14.9	13.0	18.6
82.5°	0.0	0.0	0.0	0.0	0.9	6.5	9.3	12.1	14.0	13.0	16.8
85°	0.0	0.0	0.0	0.0	2.8	5.6	3.7	1.9	0.9	0.9	2.8
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P527039

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4	2401.4
2.5°	2080.0	2146.1	2216.9	2244.0	2327.8	2391.1	2434.0	2526.2	2540.2	2541.1
5°	1671.1	1704.6	1825.7	1882.5	2007.4	2104.2	2207.6	2356.7	2456.3	2463.8
7.5°	1187.6	1280.8	1332.0	1480.1	1633.8	1785.7	1939.4	2112.6	2228.1	2230.9
10°	955.7	1016.3	1107.5	1218.4	1347.9	1502.5	1707.4	1908.6	2026.0	2054.9
12.5°	769.4	875.6	979.9	1094.5	1193.2	1309.7	1530.4	1798.7	1895.6	1953.3
15°	592.4	689.3	812.3	946.4	1058.2	1213.7	1465.2	1771.7	1934.7	1954.3
17.5°	436.9	523.5	637.1	763.8	931.5	1152.2	1476.4	1908.6	2062.3	2094.9
20°	313.9	364.2	453.6	600.8	814.1	1080.5	1487.6	2047.4	2281.2	2337.1
22.5°	248.7	269.2	327.9	458.3	682.8	1005.1	1566.8	2312.9	2582.1	2663.1
25°	216.1	227.3	255.2	361.4	599.9	997.6	1693.4	2631.4	2982.6	3041.3
27.5°	208.7	210.5	234.7	331.6	555.2	948.3	1741.9	2857.8	3232.3	3291.9
30°	219.8	249.6	251.5	280.4	472.3	850.4	1767.0	3076.7	3443.7	3487.5
32.5°	190.0	180.7	187.2	217.0	415.4	793.6	1814.5	3267.7	3685.0	3715.7
35°	132.3	138.8	153.7	188.2	363.3	734.0	1826.6	3478.2	3914.1	3945.8
37.5°	122.0	125.8	137.9	160.2	319.5	700.5	1809.9	3631.9	4151.6	4195.4
40°	113.6	118.3	124.8	145.3	286.9	663.2	1786.6	3770.7	4296.9	4405.0
42.5°	107.1	110.8	116.4	138.8	259.0	626.0	1754.0	3966.3	4427.4	4521.4
45°	99.7	105.3	111.8	135.1	243.1	600.8	1729.8	3954.2	4502.8	4553.1
47.5°	92.2	101.5	109.0	125.8	238.5	588.7	1740.0	3908.5	4441.3	4406.9
50°	84.8	96.9	109.9	104.3	227.3	564.5	1752.1	3970.9	4295.1	4288.6
52.5°	78.2	92.2	102.5	85.7	202.1	541.2	1869.5	4052.9	4398.5	4311.9
55°	68.9	82.9	82.0	68.9	163.9	523.5	1961.7	4054.8	4328.6	4361.2
57.5°	62.4	73.6	64.3	57.8	121.1	437.8	1811.7	3399.9	3705.5	3763.2
60°	57.8	71.7	48.4	45.6	79.2	315.8	1581.7	2633.3	2945.4	3054.3
62.5°	53.1	68.0	38.2	37.3	55.0	224.5	1300.4	2203.9	2538.3	2686.4
65°	46.6	48.4	30.7	28.9	39.1	121.1	791.8	1517.4	1897.4	1952.4
67.5°	38.2	37.3	25.2	23.3	26.1	58.7	349.3	760.1	1100.1	1192.3
70°	30.7	30.7	21.4	18.6	18.6	27.0	91.3	302.7	497.4	550.5
72.5°	22.4	23.3	16.8	14.9	14.0	13.0	14.9	60.5	130.4	166.7
75°	19.6	20.5	16.8	13.0	10.2	8.4	6.5	5.6	7.5	12.1
77.5°	21.4	21.4	17.7	12.1	9.3	6.5	3.7	1.9	1.9	0.9
80°	27.0	27.9	23.3	15.8	11.2	7.5	4.7	1.9	0.9	0.9
82.5°	28.9	31.7	26.1	19.6	14.0	8.4	4.7	0.9	0.0	0.0
85°	7.5	12.1	20.5	17.7	14.0	8.4	4.7	0.9	0.0	0.0
87.5°	0.0	0.9	2.8	2.8	3.7	3.7	2.8	0.9	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

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