

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: P451362

Luminaire Tested: **GALN-SA2B-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6873 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

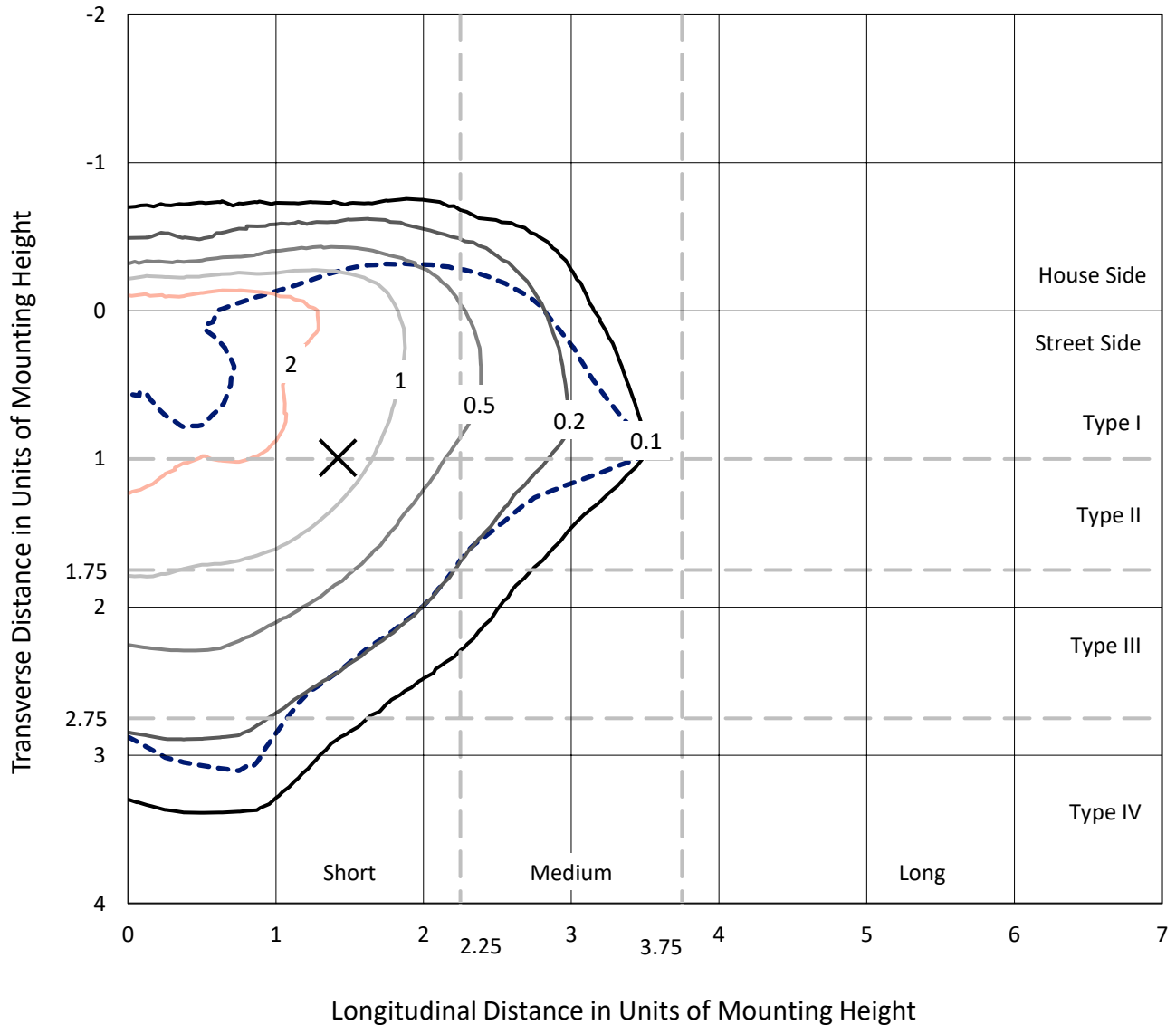
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451362
 CATALOG NUMBER: GALN-SA2B-727-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

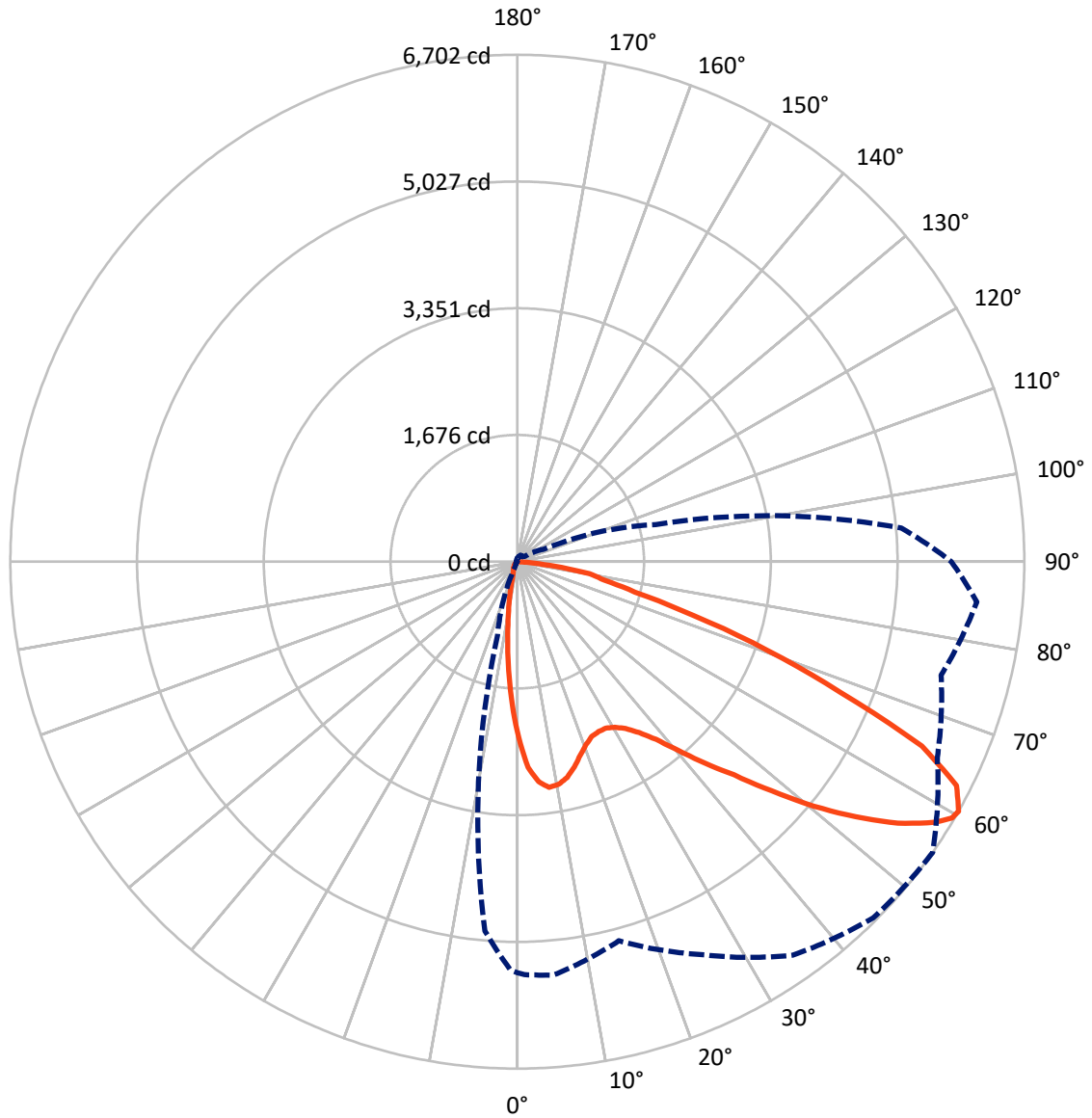
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

REPORT NUMBER: P451362
CATALOG NUMBER: GALN-SA2B-727-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P451362

CATALOG NUMBER: GALN-SA2B-727-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1020.0	0.0	1020.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	5853.0	0.0	5853.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	6873.0	0.0	6873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	2.5
10°-20°	339.4	4.9
20°-30°	502.3	7.3
30°-40°	748.8	10.9
40°-50°	1096.6	16.0
50°-60°	1583.1	23.0
60°-70°	1665.3	24.2
70°-80°	685.1	10.0
80°-90°	80.2	1.2
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°	6873.0	100.0
0°-180°	6873.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451362

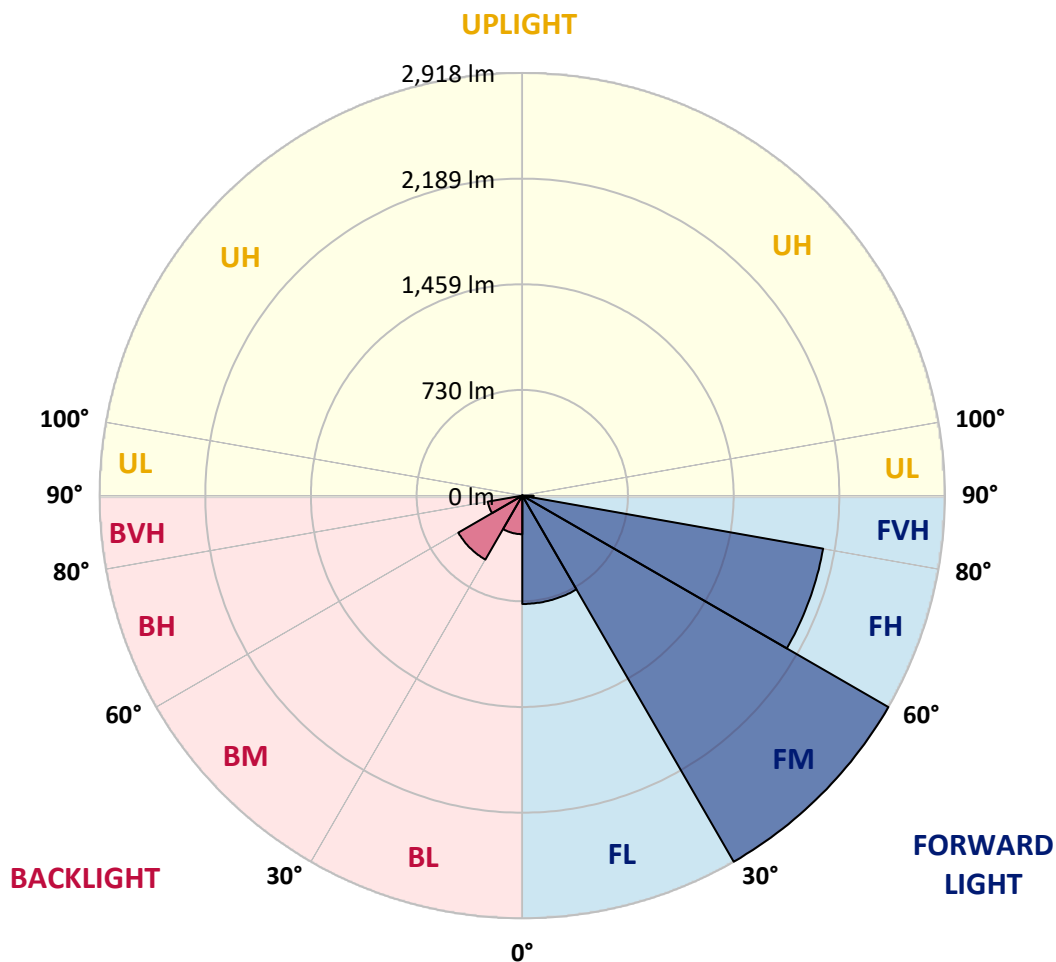
CATALOG NUMBER: GALN-SA2B-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	747.9	10.9			
FM (30°-60°)	2918.3	42.5			
FH (60°-80°)	2108.9	30.7			G2/5000
FVH (80°-90°)	77.9	1.1			G1/100
BL (0°-30°)	266.1	3.9	B1/500		
BM (30°-60°)	510.1	7.4	B1/1000		
BH (60°-80°)	241.4	3.5	B1/500		G1/500
BVH (80°-90°)	2.4	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-G2

Type III Short





REPORT NUMBER: P451362

CATALOG NUMBER: GALN-SA2B-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	2542.5	2538.3	2575.8	2637.2	2699.1	2731.4	2725.0	2722.4	2671.0	2633.5	2554.7
5°	2537.2	2558.9	2626.1	2792.2	2918.1	2978.9	2996.9	2921.3	2821.3	2676.3	2497.5
7.5°	2385.4	2412.4	2521.9	2781.6	3005.4	3137.6	3132.9	3011.7	2805.4	2581.1	2326.1
10°	2197.0	2228.8	2357.3	2672.6	2963.1	3137.6	3147.2	2993.7	2737.2	2449.4	2181.2
12.5°	2064.3	2101.8	2244.1	2571.1	2854.1	3026.0	3037.1	2926.0	2685.9	2398.6	2102.3
15°	2019.3	2054.7	2199.2	2519.7	2738.2	2830.8	2828.2	2816.5	2665.8	2410.8	2106.6
17.5°	2096.5	2125.6	2288.6	2543.0	2629.8	2620.3	2634.0	2690.1	2670.0	2512.9	2239.9
20°	2296.0	2325.6	2500.7	2614.4	2546.7	2486.4	2492.8	2586.4	2709.1	2704.9	2448.3
22.5°	2570.5	2620.8	2779.5	2753.0	2535.6	2403.4	2390.1	2511.8	2775.8	2926.0	2729.8
25°	2918.1	2968.9	3092.7	2974.2	2590.1	2383.8	2371.6	2489.1	2856.7	3141.9	3046.7
27.5°	3210.1	3248.7	3372.0	3189.5	2670.5	2392.2	2372.1	2492.2	2922.3	3325.4	3313.8
30°	3443.9	3472.5	3545.0	3290.0	2739.8	2429.3	2406.0	2538.8	2951.4	3414.9	3530.2
32.5°	3632.3	3680.4	3703.2	3397.4	2839.3	2499.1	2459.4	2628.2	3022.3	3525.4	3757.1
35°	3847.6	3903.1	3874.0	3500.0	2970.5	2608.1	2559.4	2773.1	3129.7	3627.5	4020.6
37.5°	4120.6	4184.6	4070.8	3607.9	3109.1	2772.1	2749.3	2976.8	3292.6	3773.5	4303.1
40°	4403.1	4440.1	4261.8	3739.1	3279.4	3010.7	3032.4	3279.4	3505.8	3948.6	4603.6
42.5°	4623.7	4658.6	4458.1	3849.2	3453.5	3293.7	3384.2	3644.4	3750.3	4128.0	4827.9
45°	4792.4	4822.1	4594.0	3969.3	3688.4	3703.7	3874.6	4020.6	3995.2	4237.5	5000.9
47.5°	4923.6	4949.0	4698.8	4098.4	4040.2	4205.2	4466.6	4528.4	4249.1	4356.0	5157.5
50°	4977.6	4985.0	4731.6	4262.9	4439.6	4844.3	5116.7	5079.2	4540.1	4487.7	5324.1
52.5°	5048.0	5046.4	4825.2	4419.5	4815.2	5415.6	5687.5	5602.4	4869.1	4685.0	5511.4
55°	5232.6	5234.7	5025.7	4641.7	5135.2	5876.9	6167.9	6106.0	5216.2	5018.3	5729.9
57.5°	5456.9	5464.8	5310.9	4901.4	5441.0	6211.3	6526.6	6502.8	5685.4	5389.2	5936.2
59°	5486.0	5501.9	5445.8	5084.5	5622.5	6313.9	6649.3	6672.6	5936.7	5633.6	6047.8
60°	5433.1	5459.5	5484.9	5188.1	5728.8	6350.9	6656.7	6702.2	6125.6	5799.7	6098.6
62.5°	5202.4	5244.2	5371.7	5507.1	5861.6	6235.6	6420.2	6515.5	6359.4	6236.1	6103.4
65°	4900.4	4922.0	5106.1	5563.8	5604.0	5697.1	5754.2	5876.4	6078.5	6404.4	5884.9
67.5°	4405.2	4469.2	4694.6	5235.2	4843.7	4733.7	4719.4	4597.8	5122.5	6003.4	5346.3
70°	3639.2	3667.7	3945.5	4292.0	3655.6	3486.3	3554.0	3508.5	3970.9	5168.0	4303.1
72.5°	2752.0	2816.5	3087.9	3421.2	2487.5	2267.9	2454.7	2437.7	2982.6	4153.4	2956.2
75°	1957.9	1999.7	2345.7	2677.4	1742.1	1476.0	1543.2	1606.1	2082.2	3279.4	1746.8
77.5°	1345.3	1381.3	1641.0	1770.6	1270.7	1217.3	1113.6	1174.4	1364.4	1945.8	950.7
80°	811.5	809.9	980.8	1012.6	885.1	1027.9	862.3	968.1	824.7	832.7	368.2
82.5°	526.9	521.6	599.9	653.9	492.5	517.9	347.6	501.0	537.5	232.2	116.4
85°	235.9	246.0	288.3	380.4	215.8	114.8	70.9	153.9	229.1	116.9	0.0
87.5°	24.3	19.0	50.8	92.6	29.6	3.2	10.6	5.3	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: P451362

CATALOG NUMBER: GALN-SA2B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	2518.2	2487.5	2396.0	2310.3	2236.7	2146.8	2088.6	1997.1	1941.5	1924.6	1927.2
5°	2417.1	2328.8	2154.7	2015.6	1860.6	1772.2	1637.9	1508.8	1438.9	1413.0	1401.4
7.5°	2205.5	2110.8	1900.8	1682.3	1516.2	1361.2	1261.2	1147.5	1069.7	1005.7	994.6
10°	2048.4	1924.1	1663.8	1428.9	1297.7	1181.3	1081.3	967.6	876.1	803.1	783.0
12.5°	1954.2	1815.1	1524.6	1327.9	1203.5	1084.0	953.8	822.1	728.5	649.6	613.1
15°	1937.3	1775.9	1485.5	1255.4	1102.0	957.5	784.5	642.2	546.0	471.4	448.6
17.5°	2039.4	1846.3	1479.7	1179.7	969.2	764.4	584.6	466.6	358.1	316.4	300.0
20°	2221.4	1970.6	1479.2	1091.9	832.7	588.8	410.5	304.2	260.3	240.2	230.7
22.5°	2469.5	2139.9	1507.2	1016.3	690.9	434.3	293.1	242.3	216.9	200.5	196.8
25°	2772.6	2390.7	1576.0	964.9	582.5	340.7	241.8	207.4	186.2	178.8	175.6
27.5°	3041.9	2630.8	1651.6	912.0	504.7	301.5	224.3	189.9	173.0	167.2	162.4
30°	3274.1	2848.8	1688.1	842.2	442.3	276.2	227.5	203.1	180.9	163.5	155.5
32.5°	3467.8	3016.0	1711.9	778.7	389.4	225.9	179.9	157.1	147.1	140.7	135.4
35°	3710.0	3196.9	1697.6	742.8	362.4	205.8	164.0	135.4	118.5	105.8	100.5
37.5°	3964.0	3377.8	1672.8	713.1	350.2	191.0	156.1	128.6	110.0	96.8	89.9
40°	4226.9	3545.5	1643.7	685.6	339.1	181.5	151.3	122.7	104.2	89.9	82.5
42.5°	4467.6	3709.0	1632.0	667.6	321.1	183.0	147.6	120.1	98.4	83.6	77.2
45°	4662.3	3864.0	1647.9	658.1	301.5	180.4	148.7	116.9	93.6	79.4	73.0
47.5°	4870.2	4083.0	1699.2	648.6	282.5	167.7	156.6	116.4	91.5	76.7	69.8
50°	5112.0	4363.4	1816.7	625.3	259.2	153.9	166.6	115.9	88.9	73.5	66.7
52.5°	5434.1	4681.9	1937.8	584.6	225.4	140.7	159.2	114.3	83.6	69.8	63.0
55°	5723.5	5017.3	2040.4	536.4	182.5	121.7	143.4	107.4	74.6	63.5	57.1
57.5°	5843.1	5206.7	2037.3	469.8	146.0	106.9	118.0	98.4	65.1	56.1	50.8
59°	5799.2	5182.9	1969.0	420.6	133.3	98.9	97.9	97.3	60.8	50.8	46.6
60°	5737.3	5096.1	1895.5	396.2	125.4	93.6	89.9	96.3	57.1	47.6	43.4
62.5°	5500.3	4736.4	1651.6	355.0	114.8	79.4	71.9	81.5	50.8	41.3	37.6
65°	5156.9	4183.5	1398.2	343.3	111.6	65.6	59.8	58.2	43.4	34.9	31.7
67.5°	4487.2	3540.2	1132.6	335.4	112.7	55.0	52.4	43.9	36.0	29.1	27.0
70°	3592.6	2760.4	927.4	326.4	113.7	45.0	43.9	34.9	29.1	24.3	22.2
72.5°	2182.8	1636.3	730.1	283.6	110.6	36.0	39.1	26.5	21.2	17.5	16.4
75°	1349.5	1119.9	452.8	220.6	73.0	26.5	27.5	16.4	14.3	11.1	11.1
77.5°	781.9	707.3	161.9	79.4	32.3	15.9	12.2	8.5	7.9	4.8	4.8
80°	324.3	259.8	56.1	27.0	17.5	7.4	2.6	0.5	0.0	0.0	0.0
82.5°	94.7	84.1	15.3	12.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P451362
 CATALOG NUMBER: GALN-SA2B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	1882.3	1864.8	1856.9	1883.9	1859.0	1890.7	1866.4	1877.0	1908.2	1921.9	1957.4
5°	1408.8	1390.8	1382.3	1423.1	1421.0	1441.1	1438.9	1457.5	1473.3	1437.9	1474.4
7.5°	981.3	969.2	989.3	1021.0	1054.9	1043.8	1043.8	1018.9	1027.4	1022.1	1020.5
10°	746.5	704.7	694.1	693.0	705.7	708.4	694.1	659.7	672.4	676.1	698.3
12.5°	587.2	554.9	505.7	483.5	477.7	482.5	435.4	405.2	419.5	411.1	432.7
15°	421.1	394.7	365.6	340.7	333.8	324.3	273.0	237.0	232.8	234.4	238.1
17.5°	300.5	282.5	282.5	256.0	241.8	213.2	187.3	171.4	169.8	171.4	174.0
20°	221.7	212.1	211.1	204.2	188.3	169.3	151.3	148.1	147.1	149.7	150.8
22.5°	191.0	180.9	172.5	171.9	157.1	141.2	132.8	128.6	129.1	130.1	132.8
25°	170.9	160.3	151.3	146.0	135.4	124.3	116.4	114.3	114.3	115.9	116.4
27.5°	156.6	143.4	135.4	128.0	118.5	109.0	102.1	100.5	99.5	100.5	103.2
30°	146.5	133.3	123.3	112.2	104.7	95.8	89.9	87.8	87.3	87.8	89.9
32.5°	125.4	117.4	109.5	99.5	90.5	84.6	78.3	74.6	74.6	75.7	77.8
35°	94.7	90.5	89.9	87.3	79.9	73.5	66.1	62.4	62.4	64.5	65.6
37.5°	83.6	75.7	74.6	73.5	70.4	61.9	55.0	51.8	51.3	52.9	55.0
40°	76.2	67.2	62.4	61.4	61.9	52.4	45.0	41.8	41.8	42.3	44.4
42.5°	70.4	59.8	51.3	50.3	52.4	43.9	36.5	33.3	33.3	33.3	36.0
45°	65.6	53.4	43.4	38.1	41.3	36.0	29.6	26.5	25.4	26.5	27.5
47.5°	62.4	48.7	38.1	30.7	30.7	28.6	23.8	20.1	19.0	19.6	21.2
50°	59.8	44.4	32.3	24.9	22.2	22.7	18.0	15.3	14.3	14.3	15.9
52.5°	55.5	40.2	28.0	21.2	16.9	15.3	13.2	11.1	10.6	11.1	12.2
55°	50.3	36.5	24.3	17.5	13.2	10.6	9.5	7.9	7.4	7.9	9.5
57.5°	44.4	30.7	19.6	13.8	9.0	6.9	6.3	5.3	4.2	4.8	5.8
59°	40.7	27.5	16.9	11.1	6.9	4.8	4.8	3.7	2.6	3.2	4.8
60°	39.1	25.4	14.3	9.5	5.8	3.7	3.7	2.6	1.6	2.1	3.7
62.5°	33.3	21.2	11.1	5.8	2.6	0.5	1.6	0.5	0.0	0.5	1.6
65°	28.0	16.9	7.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.5
67.5°	23.3	12.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	18.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P451362
 CATALOG NUMBER: GALN-SA2B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	1959.5	2035.2	2081.7	2169.5	2259.5	2328.8	2415.5	2493.3	2525.6	2542.5
5°	1511.4	1616.7	1706.1	1839.9	1964.3	2115.6	2269.0	2449.9	2519.2	2537.2
7.5°	1060.7	1168.1	1261.7	1416.7	1594.0	1796.6	2026.2	2255.8	2356.8	2385.4
10°	766.0	880.8	995.1	1150.1	1315.7	1535.2	1774.3	2058.4	2174.8	2197.0
12.5°	483.5	606.8	792.5	984.0	1159.1	1335.8	1586.0	1895.0	2023.5	2064.3
15°	280.4	372.4	512.6	762.3	985.0	1218.9	1491.8	1833.6	1977.5	2019.3
17.5°	187.8	219.5	315.8	506.8	800.9	1111.0	1468.0	1883.9	2043.1	2096.5
20°	158.2	172.5	206.3	309.0	616.8	1014.7	1474.4	2020.3	2229.3	2296.0
22.5°	139.1	152.4	174.0	222.2	430.6	895.1	1504.5	2215.6	2485.4	2570.5
25°	122.7	136.0	155.0	184.1	289.4	757.0	1570.7	2501.2	2824.5	2918.1
27.5°	109.0	121.1	137.5	162.4	222.7	603.1	1629.4	2779.5	3133.9	3210.1
30°	96.3	106.3	122.2	141.2	185.2	465.0	1659.0	3022.8	3359.3	3443.9
32.5°	83.6	93.1	108.5	123.8	152.4	354.4	1638.4	3201.7	3578.3	3632.3
35°	71.4	81.5	94.2	108.5	131.7	286.2	1535.2	3402.7	3805.3	3847.6
37.5°	61.4	69.8	83.1	94.2	119.0	229.1	1410.4	3583.6	4059.7	4120.6
40°	51.8	60.3	73.5	83.6	109.5	180.4	1297.7	3784.6	4327.9	4403.1
42.5°	42.3	52.4	64.0	80.4	94.2	137.5	1161.2	3947.6	4529.5	4623.7
45°	33.9	45.0	57.7	79.9	82.0	104.7	1029.5	4074.5	4707.8	4792.4
47.5°	27.0	38.1	55.5	74.6	67.2	83.1	954.4	4207.3	4855.9	4923.6
50°	21.7	31.7	58.2	65.6	56.1	70.4	952.2	4355.5	4932.6	4977.6
52.5°	17.5	25.9	49.2	50.3	47.6	61.9	1009.4	4522.1	5010.9	5048.0
55°	14.8	21.7	32.3	37.0	42.9	56.1	1052.2	4778.7	5197.7	5232.6
57.5°	11.6	18.5	24.9	29.6	38.1	51.3	1058.0	4976.5	5434.1	5456.9
59°	10.1	15.9	22.2	26.5	34.9	48.1	1034.2	4988.7	5449.5	5486.0
60°	8.5	14.3	19.6	24.9	32.3	45.5	1008.3	4900.4	5392.3	5433.1
62.5°	6.3	11.1	14.3	20.1	26.5	39.1	885.6	4591.9	5173.9	5202.4
65°	4.2	7.9	10.6	14.8	20.6	33.9	721.6	4192.0	4836.3	4900.4
67.5°	2.6	5.8	8.5	11.1	16.9	28.6	514.2	3594.7	4363.9	4405.2
70°	1.6	3.7	6.3	9.0	13.2	22.7	305.2	2841.4	3630.7	3639.2
72.5°	1.1	2.6	4.2	6.3	10.6	20.6	148.1	1852.1	2650.9	2752.0
75°	0.5	1.6	2.6	4.8	8.5	16.9	70.9	1237.4	1928.8	1957.9
77.5°	0.0	0.5	1.6	3.2	6.3	13.2	41.3	812.6	1315.2	1345.3
80°	0.0	0.0	1.1	2.6	4.8	8.5	24.9	479.3	796.7	811.5
82.5°	0.0	0.0	0.5	2.1	3.2	6.3	12.7	210.6	521.6	526.9
85°	0.0	0.0	0.5	2.1	2.6	4.2	4.8	28.6	231.7	235.9
87.5°	0.0	0.0	0.5	2.6	2.6	2.6	2.6	1.6	19.6	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)