

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: P452058

Luminaire Tested: **GALN-SA3A-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452058
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-SA3A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 8199 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

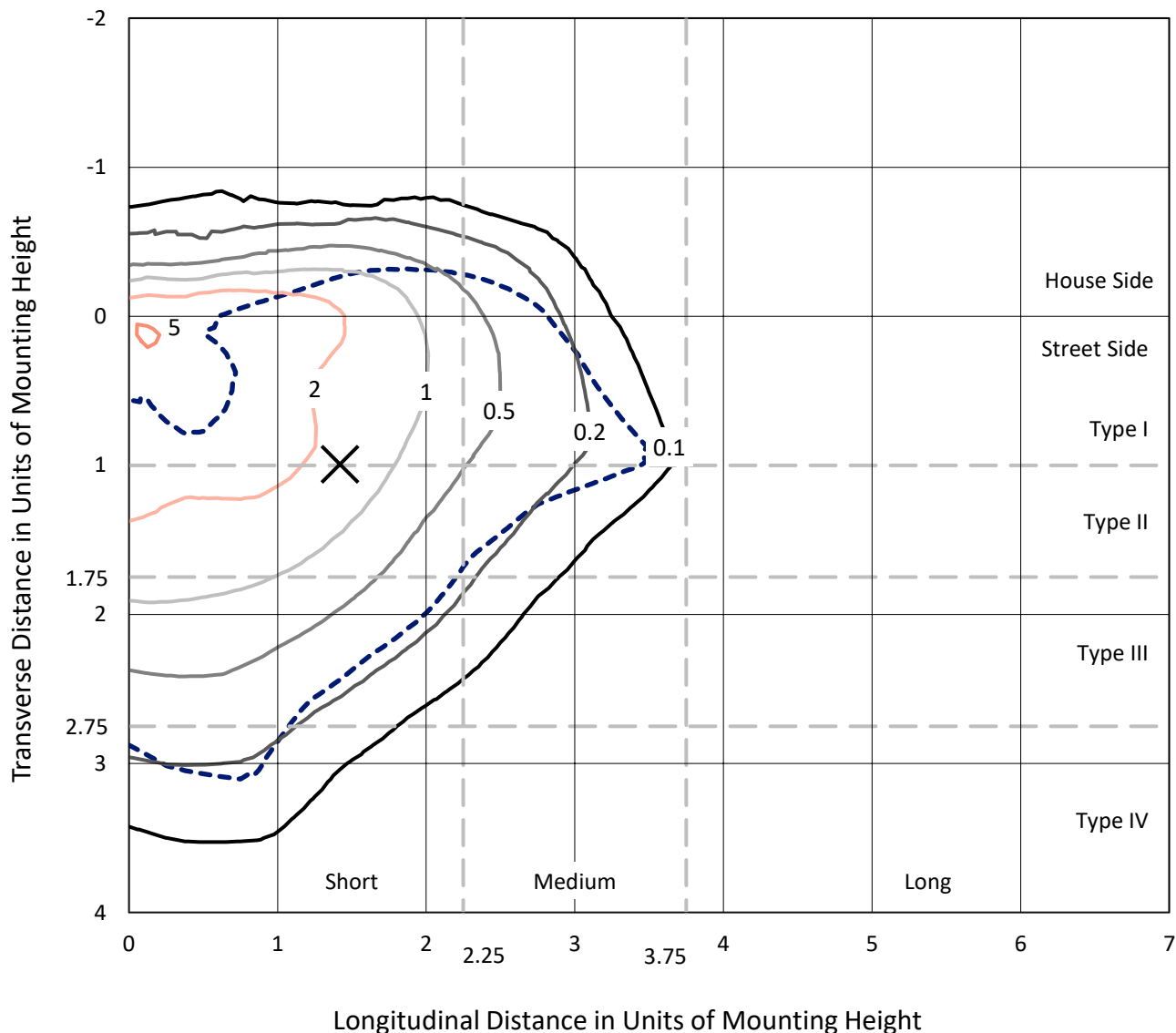
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452058
 CATALOG NUMBER: GALN-SA3A-727-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

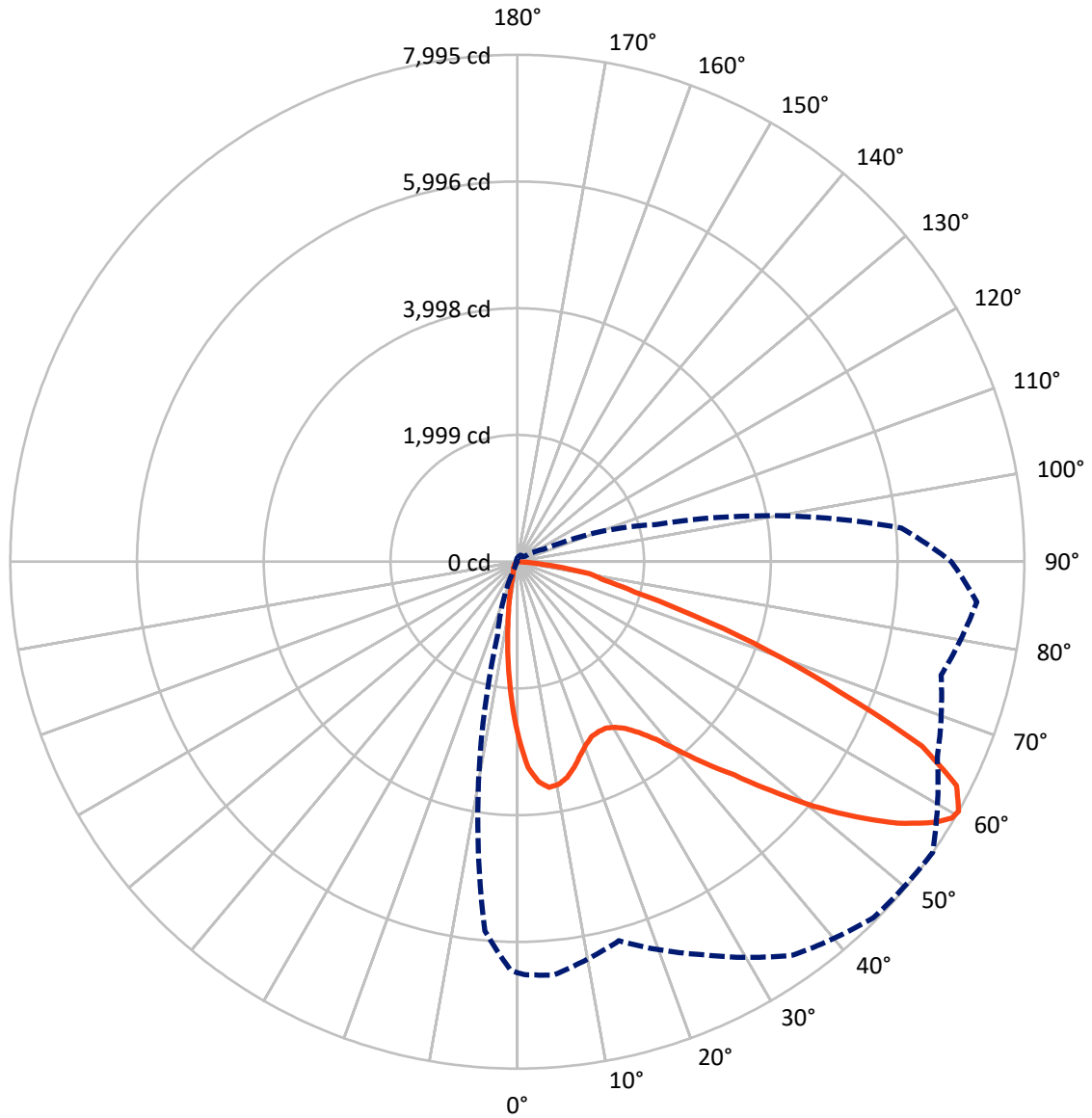
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

REPORT NUMBER: P452058
CATALOG NUMBER: GALN-SA3A-727-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452058

CATALOG NUMBER: GALN-SA3A-727-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1216.8	0.0	1216.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	6982.2	0.0	6982.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	8199.0	0.0	8199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	2.5
10°-20°	404.8	4.9
20°-30°	599.2	7.3
30°-40°	893.2	10.9
40°-50°	1308.1	16.0
50°-60°	1888.5	23.0
60°-70°	1986.6	24.2
70°-80°	817.2	10.0
80°-90°	95.7	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°	8199.0	100.0
0°-180°	8199.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452058

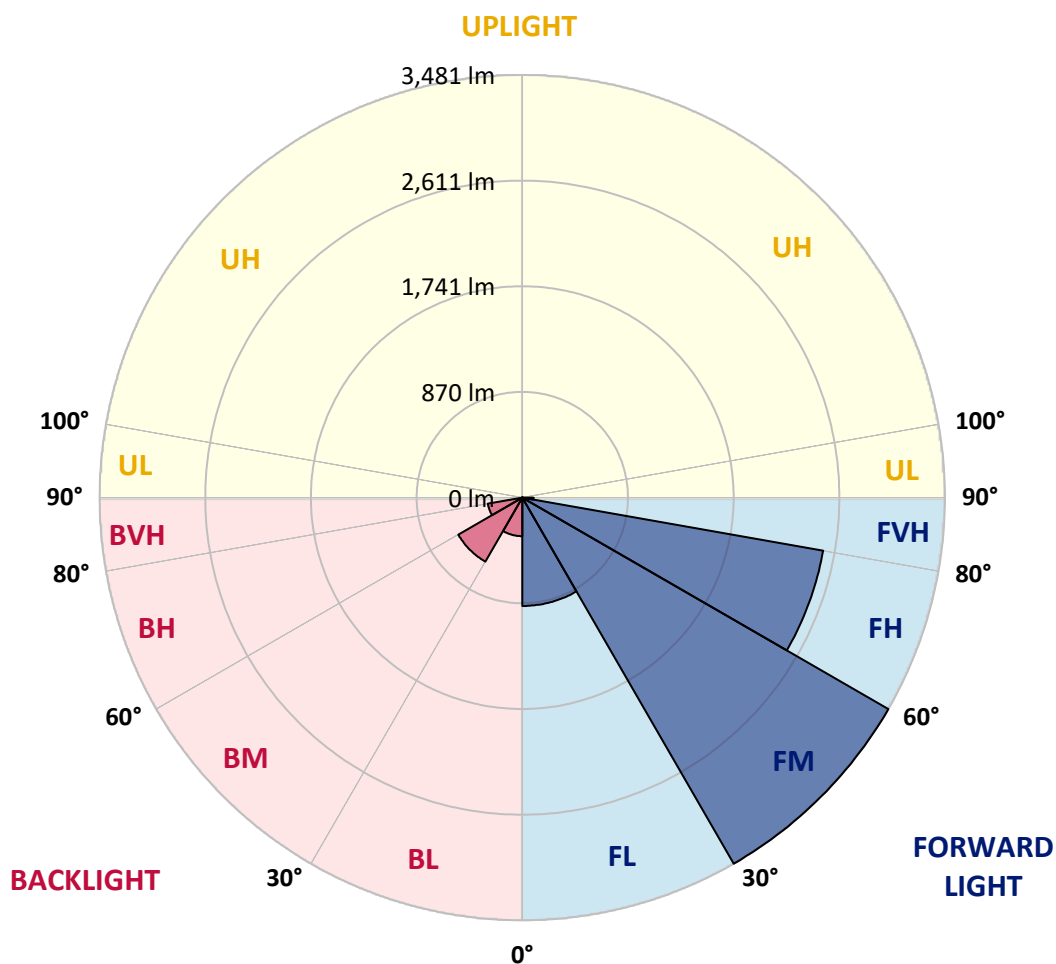
CATALOG NUMBER: GALN-SA3A-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	892.2	10.9			
FM	(30°-60°)	3481.3	42.5			
FH	(60°-80°)	2515.8	30.7			G2/5000
FVH	(80°-90°)	92.9	1.1			G1/100
BL	(0°-30°)	317.5	3.9	B1/500		
BM	(30°-60°)	608.5	7.4	B1/1000		
BH	(60°-80°)	288.0	3.5	B1/500		G1/500
BVH	(80°-90°)	2.8	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: P452058

CATALOG NUMBER: GALN-SA3A-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2
2.5°	3033.0	3028.0	3072.8	3146.0	3219.8	3258.3	3250.7	3247.6	3186.4	3141.6	3047.5
5°	3026.7	3052.6	3132.7	3330.9	3481.1	3553.7	3575.1	3484.9	3365.6	3192.7	2979.4
7.5°	2845.6	2877.8	3008.4	3318.3	3585.2	3743.0	3737.3	3592.8	3346.7	3079.1	2774.9
10°	2620.9	2658.8	2812.1	3188.3	3534.7	3743.0	3754.3	3571.3	3265.3	2921.9	2602.0
12.5°	2462.5	2507.3	2677.1	3067.1	3404.7	3609.8	3623.1	3490.6	3204.0	2861.4	2507.9
15°	2408.9	2451.1	2623.4	3005.9	3266.5	3377.0	3373.8	3359.9	3180.1	2875.9	2513.0
17.5°	2501.0	2535.7	2730.1	3033.6	3137.1	3125.8	3142.2	3209.1	3185.1	2997.7	2672.0
20°	2738.9	2774.3	2983.2	3118.8	3038.1	2966.1	2973.7	3085.4	3231.8	3226.8	2920.7
22.5°	3066.5	3126.4	3315.7	3284.2	3024.8	2867.0	2851.3	2996.4	3311.3	3490.6	3256.4
25°	3481.1	3541.7	3689.3	3548.0	3089.8	2843.7	2829.2	2969.3	3407.9	3748.0	3634.4
27.5°	3829.4	3875.5	4022.6	3804.8	3185.7	2853.8	2829.8	2973.1	3486.1	3967.0	3953.1
30°	4108.4	4142.5	4228.9	3924.7	3268.4	2898.0	2870.2	3028.6	3520.8	4073.7	4211.3
32.5°	4333.1	4390.5	4417.6	4052.9	3387.1	2981.3	2933.9	3135.2	3605.4	4205.6	4482.0
35°	4589.9	4656.2	4621.5	4175.3	3543.6	3111.3	3053.2	3308.2	3733.5	4327.4	4796.3
37.5°	4915.5	4991.9	4856.2	4304.0	3708.9	3306.9	3279.8	3551.1	3927.9	4501.6	5133.3
40°	5252.6	5296.7	5084.0	4460.5	3912.1	3591.5	3617.4	3912.1	4182.2	4710.4	5491.7
42.5°	5515.7	5557.4	5318.2	4591.8	4119.7	3929.2	4037.1	4347.6	4473.8	4924.4	5759.3
45°	5717.0	5752.4	5480.4	4735.1	4399.9	4418.3	4622.1	4796.3	4766.0	5055.0	5965.7
47.5°	5873.5	5903.8	5605.3	4889.0	4819.6	5016.5	5328.3	5402.1	5068.9	5196.4	6152.5
50°	5937.9	5946.7	5644.5	5085.3	5296.1	5778.9	6103.9	6059.1	5416.0	5353.5	6351.3
52.5°	6021.8	6020.0	5756.2	5272.1	5744.2	6460.5	6784.8	6683.2	5808.5	5588.9	6574.7
55°	6242.1	6244.6	5995.3	5537.2	6126.0	7010.8	7357.9	7284.0	6222.5	5986.5	6835.3
57.5°	6509.7	6519.1	6335.5	5847.0	6490.7	7409.6	7785.7	7757.3	6782.3	6428.9	7081.4
59°	6544.4	6563.3	6496.4	6065.4	6707.2	7532.0	7932.2	7959.9	7082.1	6720.5	7214.6
60°	6481.3	6512.8	6543.1	6189.1	6834.1	7576.2	7941.0	7995.3	7307.4	6918.6	7275.2
62.5°	6206.1	6256.0	6408.1	6569.6	6992.5	7438.6	7658.9	7772.5	7586.3	7439.3	7280.9
65°	5845.8	5871.6	6091.3	6637.2	6685.1	6796.2	6864.4	7010.1	7251.2	7640.0	7020.2
67.5°	5255.1	5331.4	5600.3	6245.3	5778.2	5647.0	5629.9	5484.8	6110.8	7161.6	6377.8
70°	4341.3	4375.3	4706.7	5120.0	4360.8	4158.9	4239.7	4185.4	4737.0	6165.1	5133.3
72.5°	3282.9	3359.9	3683.7	4081.2	2967.4	2705.5	2928.3	2908.1	3558.1	4954.7	3526.5
75°	2335.7	2385.5	2798.2	3193.9	2078.2	1760.7	1840.9	1916.0	2484.0	3912.1	2083.9
77.5°	1604.9	1647.8	1957.6	2112.3	1515.9	1452.1	1328.4	1401.0	1627.6	2321.1	1134.1
80°	968.1	966.2	1170.0	1207.9	1055.8	1226.2	1028.7	1154.9	983.9	993.3	439.2
82.5°	628.6	622.3	715.7	780.0	587.5	617.8	414.6	597.6	641.2	277.0	138.8
85°	281.5	293.5	343.9	453.8	257.5	136.9	84.6	183.6	273.3	139.5	0.0
87.5°	29.0	22.7	60.6	110.4	35.3	3.8	12.6	6.3	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: P452058

CATALOG NUMBER: GALN-SA3A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2
2.5°	3004.0	2967.4	2858.2	2756.0	2668.2	2561.0	2491.5	2382.4	2316.1	2295.9	2299.1
5°	2883.4	2778.1	2570.4	2404.4	2219.5	2114.1	1953.9	1799.9	1716.6	1685.6	1671.8
7.5°	2631.0	2518.0	2267.5	2006.9	1808.7	1623.8	1504.5	1368.8	1276.1	1199.7	1186.4
10°	2443.6	2295.3	1984.8	1704.6	1548.1	1409.2	1289.9	1154.3	1045.1	958.0	934.0
12.5°	2331.2	2165.3	1818.8	1584.0	1435.7	1293.1	1137.9	980.7	869.0	775.0	731.4
15°	2311.0	2118.6	1772.1	1497.6	1314.6	1142.3	935.9	766.1	651.3	562.3	535.2
17.5°	2432.8	2202.5	1765.2	1407.3	1156.2	911.9	697.4	556.6	427.2	377.4	357.8
20°	2649.9	2350.8	1764.5	1302.6	993.3	702.4	489.7	362.9	310.5	286.5	275.2
22.5°	2945.9	2552.8	1798.0	1212.3	824.2	518.1	349.6	289.0	258.7	239.2	234.8
25°	3307.5	2851.9	1880.0	1151.1	694.8	406.4	288.4	247.4	222.1	213.3	209.5
27.5°	3628.8	3138.4	1970.3	1088.0	602.1	359.7	267.6	226.6	206.4	199.4	193.7
30°	3905.8	3398.4	2013.8	1004.7	527.6	329.4	271.4	242.3	215.8	195.0	185.5
32.5°	4136.8	3597.8	2042.2	929.0	464.5	269.5	214.6	187.4	175.4	167.9	161.6
35°	4425.8	3813.7	2025.2	886.0	432.3	245.5	195.6	161.6	141.4	126.2	119.9
37.5°	4728.7	4029.5	1995.5	850.7	417.8	227.8	186.2	153.4	131.3	115.5	107.3
40°	5042.4	4229.6	1960.8	817.9	404.5	216.5	180.5	146.4	124.3	107.3	98.4
42.5°	5329.5	4424.6	1946.9	796.4	383.1	218.4	176.1	143.3	117.4	99.7	92.1
45°	5561.8	4609.5	1965.8	785.1	359.7	215.2	177.3	139.5	111.7	94.7	87.1
47.5°	5809.8	4870.7	2027.1	773.7	337.0	200.1	186.8	138.8	109.2	91.5	83.3
50°	6098.2	5205.2	2167.2	745.9	309.2	183.6	198.8	138.2	106.0	87.7	79.5
52.5°	6482.5	5585.1	2311.7	697.4	268.8	167.9	190.0	136.3	99.7	83.3	75.1
55°	6827.7	5985.2	2434.1	639.9	217.7	145.2	171.0	128.1	89.0	75.7	68.2
57.5°	6970.4	6211.2	2430.3	560.4	174.2	127.5	140.7	117.4	77.6	66.9	60.6
59°	6918.0	6182.8	2348.9	501.7	159.0	118.0	116.8	116.1	72.6	60.6	55.5
60°	6844.2	6079.3	2261.2	472.7	149.6	111.7	107.3	114.9	68.2	56.8	51.7
62.5°	6561.4	5650.1	1970.3	423.5	136.9	94.7	85.8	97.2	60.6	49.2	44.8
65°	6151.9	4990.6	1668.0	409.6	133.2	78.3	71.3	69.4	51.7	41.7	37.9
67.5°	5352.9	4223.2	1351.2	400.1	134.4	65.6	62.5	52.4	42.9	34.7	32.2
70°	4285.7	3293.0	1106.3	389.4	135.7	53.6	52.4	41.7	34.7	29.0	26.5
72.5°	2603.9	1952.0	870.9	338.3	131.9	42.9	46.7	31.6	25.2	20.8	19.6
75°	1609.9	1336.0	540.2	263.2	87.1	31.6	32.8	19.6	17.0	13.3	13.3
77.5°	932.7	843.8	193.1	94.7	38.5	18.9	14.5	10.1	9.5	5.7	5.7
80°	386.9	309.9	66.9	32.2	20.8	8.8	3.2	0.6	0.0	0.0	0.0
82.5°	113.0	100.3	18.3	14.5	6.3	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: P452058
 CATALOG NUMBER: GALN-SA3A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2
2.5°	2245.4	2224.6	2215.1	2247.3	2217.6	2255.5	2226.5	2239.1	2276.3	2292.7	2335.0
5°	1680.6	1659.1	1649.0	1697.6	1695.1	1719.1	1716.6	1738.6	1757.6	1715.3	1758.8
7.5°	1170.7	1156.2	1180.1	1218.0	1258.4	1245.1	1245.1	1215.5	1225.6	1219.3	1217.4
10°	890.5	840.6	828.0	826.7	841.9	845.0	828.0	787.0	802.1	806.5	833.0
12.5°	700.5	662.0	603.3	576.8	569.9	575.6	519.4	483.4	500.5	490.4	516.2
15°	502.3	470.8	436.1	406.4	398.2	386.9	325.6	282.7	277.7	279.6	284.0
17.5°	358.5	337.0	337.0	305.4	288.4	254.3	223.4	204.5	202.6	204.5	207.6
20°	264.4	253.1	251.8	243.6	224.7	201.9	180.5	176.7	175.4	178.6	179.9
22.5°	227.8	215.8	205.7	205.1	187.4	168.5	158.4	153.4	154.0	155.2	158.4
25°	203.8	191.2	180.5	174.2	161.6	148.3	138.8	136.3	136.3	138.2	138.8
27.5°	186.8	171.0	161.6	152.7	141.4	130.0	121.8	119.9	118.6	119.9	123.1
30°	174.8	159.0	147.0	133.8	125.0	114.2	107.3	104.8	104.1	104.8	107.3
32.5°	149.6	140.1	130.6	118.6	107.9	101.0	93.4	89.0	89.0	90.2	92.8
35°	113.0	107.9	107.3	104.1	95.3	87.7	78.9	74.5	74.5	77.0	78.3
37.5°	99.7	90.2	89.0	87.7	83.9	73.8	65.6	61.8	61.2	63.1	65.6
40°	90.9	80.1	74.5	73.2	73.8	62.5	53.6	49.9	49.9	50.5	53.0
42.5°	83.9	71.3	61.2	60.0	62.5	52.4	43.5	39.8	39.8	39.8	42.9
45°	78.3	63.7	51.7	45.4	49.2	42.9	35.3	31.6	30.3	31.6	32.8
47.5°	74.5	58.1	45.4	36.6	36.6	34.1	28.4	24.0	22.7	23.4	25.2
50°	71.3	53.0	38.5	29.7	26.5	27.1	21.5	18.3	17.0	17.0	18.9
52.5°	66.3	48.0	33.4	25.2	20.2	18.3	15.8	13.3	12.6	13.3	14.5
55°	60.0	43.5	29.0	20.8	15.8	12.6	11.4	9.5	8.8	9.5	11.4
57.5°	53.0	36.6	23.4	16.4	10.7	8.2	7.6	6.3	5.0	5.7	6.9
59°	48.6	32.8	20.2	13.3	8.2	5.7	5.7	4.4	3.2	3.8	5.7
60°	46.7	30.3	17.0	11.4	6.9	4.4	4.4	3.2	1.9	2.5	4.4
62.5°	39.8	25.2	13.3	6.9	3.2	0.6	1.9	0.6	0.0	0.6	1.9
65°	33.4	20.2	8.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6
67.5°	27.8	15.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	22.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.8	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: P452058
 CATALOG NUMBER: GALN-SA3A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2	2776.2
2.5°	2337.6	2427.8	2483.3	2588.1	2695.4	2778.1	2881.6	2974.3	3012.8	3033.0
5°	1803.0	1928.6	2035.3	2194.9	2343.2	2523.7	2706.7	2922.6	3005.2	3026.7
7.5°	1265.3	1393.4	1505.1	1690.1	1901.5	2143.2	2417.1	2691.0	2811.5	2845.6
10°	913.8	1050.8	1187.1	1372.0	1569.5	1831.4	2116.7	2455.6	2594.4	2620.9
12.5°	576.8	723.9	945.4	1173.8	1382.7	1593.5	1892.0	2260.6	2413.9	2462.5
15°	334.5	444.3	611.5	909.4	1175.1	1454.0	1779.7	2187.4	2359.0	2408.9
17.5°	224.0	261.9	376.8	604.6	955.5	1325.3	1751.3	2247.3	2437.3	2501.0
20°	188.7	205.7	246.1	368.6	735.8	1210.4	1758.8	2410.1	2659.4	2738.9
22.5°	166.0	181.8	207.6	265.1	513.7	1067.8	1794.8	2643.0	2964.9	3066.5
25°	146.4	162.2	184.9	219.6	345.2	903.1	1873.7	2983.8	3369.4	3481.1
27.5°	130.0	144.5	164.1	193.7	265.7	719.4	1943.8	3315.7	3738.6	3829.4
30°	114.9	126.8	145.8	168.5	220.9	554.7	1979.1	3606.0	4007.4	4108.4
32.5°	99.7	111.1	129.4	147.7	181.8	422.8	1954.5	3819.3	4268.7	4333.1
35°	85.2	97.2	112.3	129.4	157.1	341.4	1831.4	4059.2	4539.4	4589.9
37.5°	73.2	83.3	99.1	112.3	142.0	273.3	1682.5	4275.0	4843.0	4915.5
40°	61.8	71.9	87.7	99.7	130.6	215.2	1548.1	4514.8	5162.9	5252.6
42.5°	50.5	62.5	76.4	95.9	112.3	164.1	1385.2	4709.2	5403.4	5515.7
45°	40.4	53.6	68.8	95.3	97.8	125.0	1228.1	4860.6	5616.1	5717.0
47.5°	32.2	45.4	66.3	89.0	80.1	99.1	1138.5	5019.0	5792.8	5873.5
50°	25.9	37.9	69.4	78.3	66.9	83.9	1136.0	5195.8	5884.3	5937.9
52.5°	20.8	30.9	58.7	60.0	56.8	73.8	1204.1	5394.5	5977.7	6021.8
55°	17.7	25.9	38.5	44.2	51.1	66.9	1255.2	5700.6	6200.4	6242.1
57.5°	13.9	22.1	29.7	35.3	45.4	61.2	1262.2	5936.7	6482.5	6509.7
59°	12.0	18.9	26.5	31.6	41.7	57.4	1233.8	5951.2	6500.8	6544.4
60°	10.1	17.0	23.4	29.7	38.5	54.3	1202.9	5845.8	6432.7	6481.3
62.5°	7.6	13.3	17.0	24.0	31.6	46.7	1056.4	5477.8	6172.0	6206.1
65°	5.0	9.5	12.6	17.7	24.6	40.4	860.8	5000.7	5769.4	5845.8
67.5°	3.2	6.9	10.1	13.3	20.2	34.1	613.4	4288.2	5205.8	5255.1
70°	1.9	4.4	7.6	10.7	15.8	27.1	364.1	3389.6	4331.2	4341.3
72.5°	1.3	3.2	5.0	7.6	12.6	24.6	176.7	2209.4	3162.4	3282.9
75°	0.6	1.9	3.2	5.7	10.1	20.2	84.6	1476.1	2300.9	2335.7
77.5°	0.0	0.6	1.9	3.8	7.6	15.8	49.2	969.4	1568.9	1604.9
80°	0.0	0.0	1.3	3.2	5.7	10.1	29.7	571.8	950.4	968.1
82.5°	0.0	0.0	0.6	2.5	3.8	7.6	15.1	251.2	622.3	628.6
85°	0.0	0.0	0.6	2.5	3.2	5.0	5.7	34.1	276.4	281.5
87.5°	0.0	0.0	0.6	3.2	3.2	3.2	3.2	1.9	23.4	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)