

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: P526987

Luminaire Tested: **GALN-SA2A-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526987  
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-727-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 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: 4252 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0

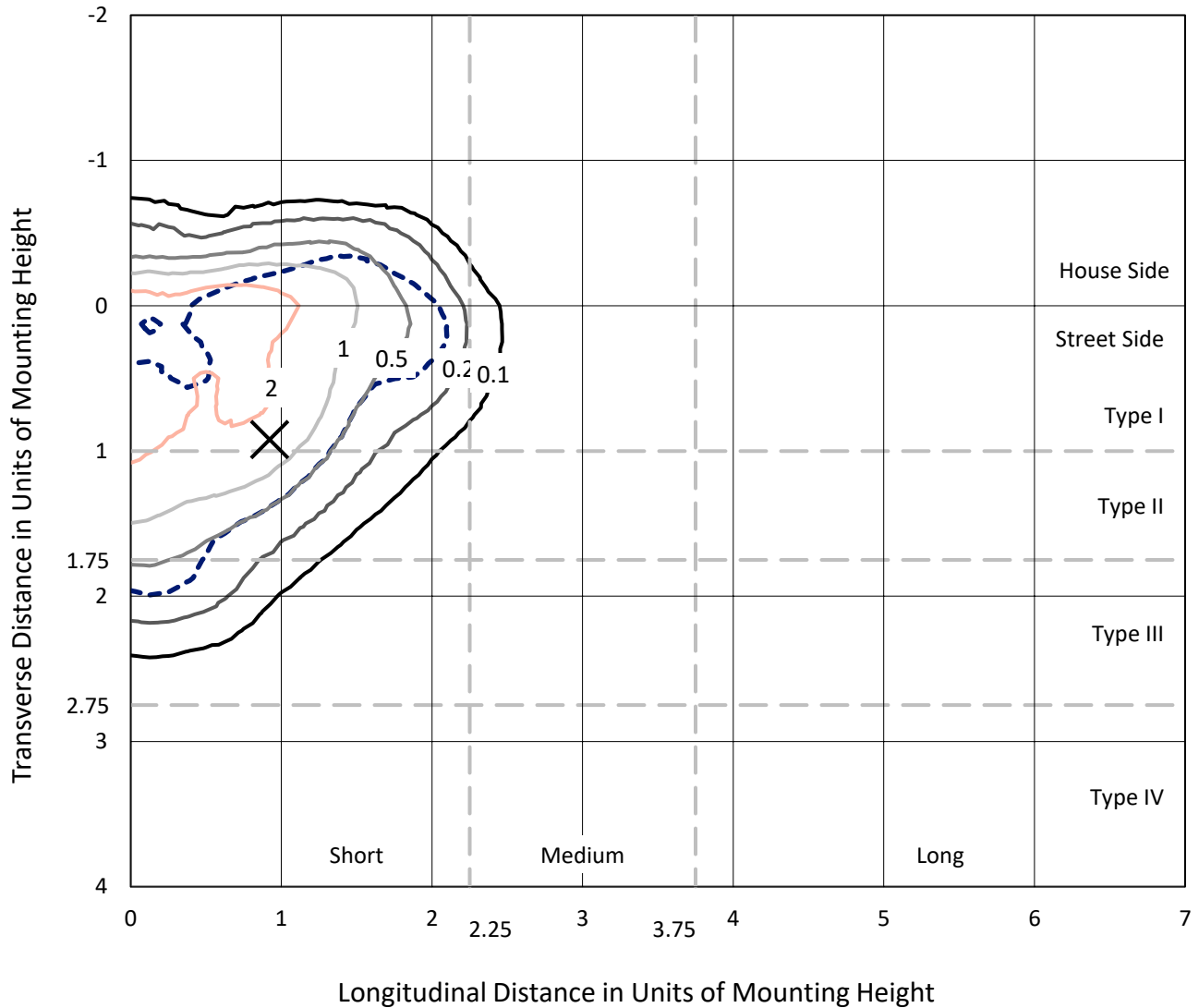
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P526987  
 CATALOG NUMBER: GALN-SA2A-727-U-SLL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

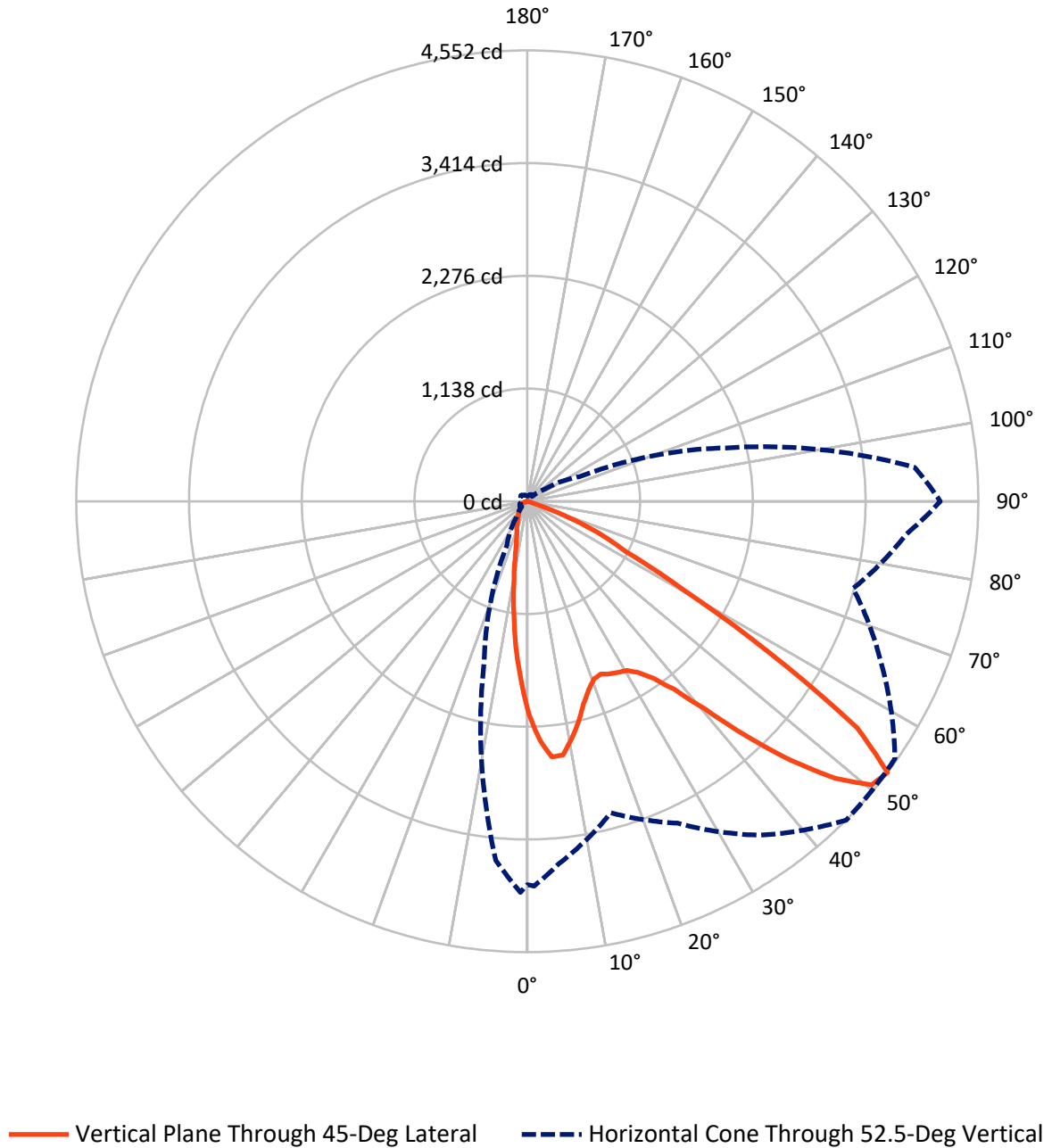
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P526987  
CATALOG NUMBER: GALN-SA2A-727-U-SLL-GRSBK

### Luminous Intensity Polar Plot



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 CATALOG NUMBER: GALN-SA2A-727-U-SLL-GRSBK

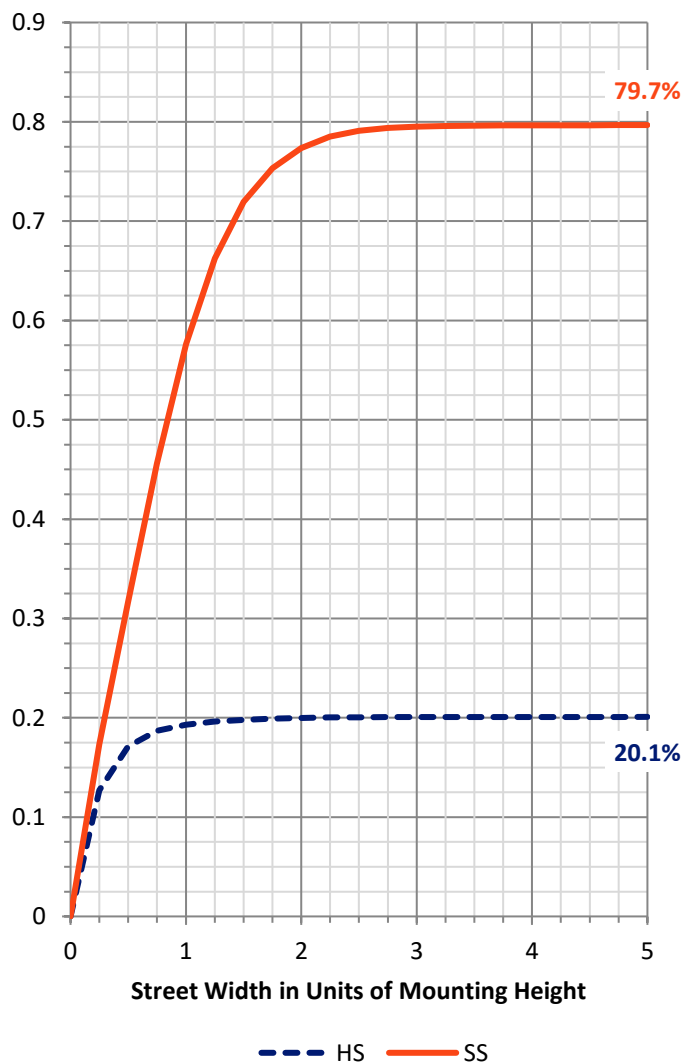
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	862.9	0.0	862.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	3389.1	0.0	3389.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	4252.0	0.0	4252.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.2	3.7
10°-20°	310.2	7.3
20°-30°	472.1	11.1
30°-40°	705.6	16.6
40°-50°	1004.8	23.6
50°-60°	1080.2	25.4
60°-70°	478.6	11.3
70°-80°	38.7	0.9
80°-90°	4.5	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°	4252.0	100.0
0°-180°	4252.0	100.0

**Coefficient of Utilization**

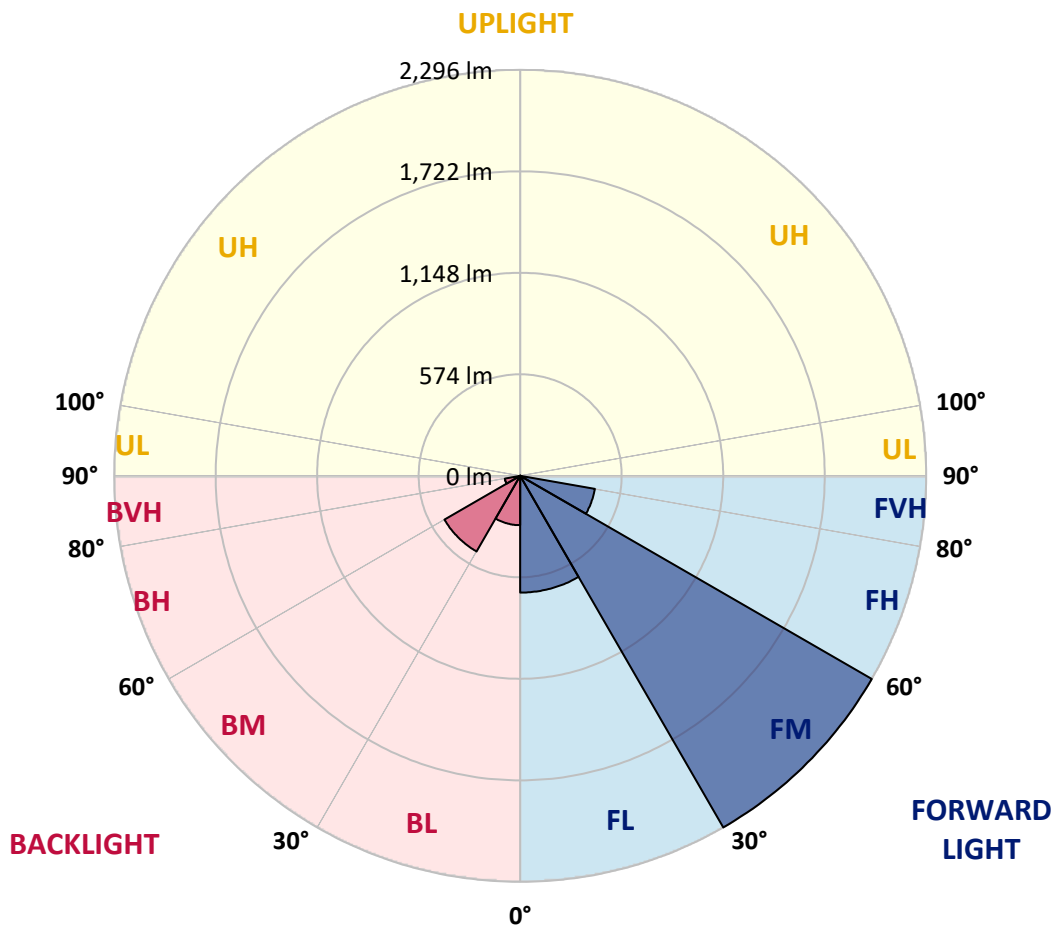


REPORT NUMBER: P526987  
 CATALOG NUMBER: GALN-SA2A-727-U-SLL-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.4	15.5			
FM (30°-60°)	2296.2	54.0			
FH (60°-80°)	429.1	10.1			G0/660
FVH (80°-90°)	3.3	0.1			G0/10
BL (0°-30°)	279.1	6.6	B1/500		
BM (30°-60°)	494.4	11.6	B1/1000		
BH (60°-80°)	88.3	2.1	B0/110		G0/110
BVH (80°-90°)	1.2	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: P526987

CATALOG NUMBER: GALN-SA2A-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0
2.5°	2281.4	2288.1	2324.9	2370.9	2395.1	2450.3	2411.9	2421.9	2401.0	2327.4	2269.7
5°	2212.0	2211.2	2258.0	2371.7	2479.6	2589.2	2592.5	2534.0	2431.1	2318.2	2156.8
7.5°	2002.9	2035.5	2084.0	2265.5	2465.4	2547.3	2586.7	2518.1	2360.0	2198.6	2023.8
10°	1844.9	1861.6	1943.5	2162.7	2309.0	2418.6	2442.8	2403.5	2282.2	2080.7	1885.0
12.5°	1753.7	1762.1	1858.2	2042.2	2196.9	2278.1	2289.8	2308.2	2221.2	2032.2	1797.2
15°	1754.5	1761.2	1890.9	2044.7	2105.8	2084.0	2122.5	2121.7	2159.3	2023.0	1870.8
17.5°	1880.8	1888.3	2005.4	2081.5	2054.8	2003.8	2001.2	2039.7	2119.2	2137.6	1982.0
20°	2098.3	2115.8	2202.0	2197.8	2047.2	1944.4	1915.9	1945.2	2130.0	2234.6	2206.1
22.5°	2391.0	2415.2	2475.4	2360.0	2081.5	1904.2	1895.0	1951.9	2202.0	2451.2	2460.4
25°	2730.5	2771.5	2800.7	2652.7	2203.6	1973.6	1930.2	2028.0	2299.0	2686.2	2784.0
27.5°	2955.5	2998.1	2991.4	2779.8	2285.6	1992.0	1955.3	2046.4	2383.4	2742.2	2952.9
30°	3131.1	3157.0	3203.8	2848.4	2367.5	2043.9	1981.2	2124.2	2411.0	2839.2	3157.0
32.5°	3336.0	3353.5	3356.9	2969.7	2493.8	2109.1	2061.5	2221.2	2533.1	2932.0	3337.6
35°	3542.5	3568.5	3514.1	3119.4	2571.6	2230.4	2195.3	2389.3	2631.0	3028.2	3536.7
37.5°	3766.7	3780.0	3654.6	3181.3	2682.8	2427.8	2408.5	2570.8	2800.7	3202.2	3757.5
40°	3954.8	3967.4	3804.3	3257.4	2799.9	2703.7	2753.1	2917.0	3031.6	3315.1	3867.9
42.5°	4059.4	4088.6	3854.5	3215.5	3034.9	3016.5	3235.6	3293.3	3299.2	3346.8	3966.5
45°	4087.8	4074.4	3771.7	3249.8	3240.6	3530.8	3729.9	3806.0	3565.1	3405.4	3991.6
47.5°	3956.5	3974.1	3649.6	3219.7	3510.8	3920.5	4178.1	4319.4	3763.3	3354.4	3929.7
50°	3850.3	3827.7	3610.3	3198.0	3583.5	4104.5	4501.8	4533.5	3945.6	3417.1	3862.0
52.5°	3871.2	3885.4	3673.0	3255.7	3585.2	4115.4	4551.9	4530.2	3951.5	3402.9	3837.7
55°	3915.5	3852.8	3646.2	3128.6	3345.2	3811.8	4040.1	4006.7	3647.1	3251.5	3778.4
57.5°	3378.6	3475.6	3352.7	2793.2	2745.5	2871.8	2867.6	2970.5	2720.5	2798.2	3439.7
60°	2742.2	2758.9	2804.9	2389.3	1900.1	1856.6	1796.4	1731.1	1830.6	2392.6	3128.6
62.5°	2411.9	2391.8	2555.7	2173.5	1341.4	1123.1	1113.1	1153.2	1412.5	2282.2	2934.5
65°	1752.9	1778.0	1896.7	1686.8	1006.9	857.2	842.1	960.9	1143.2	1829.0	2239.6
67.5°	1070.5	1119.0	1129.8	1040.3	683.3	542.8	521.0	628.9	825.4	1183.4	1313.0
70°	494.2	552.8	608.0	567.8	395.6	223.3	210.7	264.3	416.5	680.7	696.6
72.5°	149.7	150.5	210.7	219.9	128.0	50.2	44.3	58.5	141.3	225.0	236.7
75°	10.9	11.7	28.4	32.6	24.3	12.5	13.4	15.9	30.1	50.2	37.6
77.5°	0.8	0.8	0.8	4.2	7.5	8.4	10.9	12.5	15.9	18.4	16.7
80°	0.8	0.0	0.8	3.3	5.9	8.4	10.0	11.7	12.5	14.2	12.5
82.5°	0.0	0.0	0.0	2.5	5.9	8.4	9.2	12.5	14.2	16.7	14.2
85°	0.0	0.0	0.0	2.5	5.9	9.2	8.4	4.2	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: P526987

CATALOG NUMBER: GALN-SA2A-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0
2.5°	2279.7	2247.1	2172.7	2135.1	2046.4	2033.9	1946.9	1932.7	1903.4	1887.5	1849.0
5°	2085.7	2046.4	1925.1	1823.1	1704.4	1621.6	1558.0	1500.3	1466.9	1435.9	1450.1
7.5°	1927.7	1813.1	1678.4	1507.8	1370.7	1282.0	1185.0	1105.6	1058.7	1027.0	1034.5
10°	1762.1	1687.6	1500.3	1308.8	1143.2	1080.5	1004.4	943.3	877.3	820.4	793.6
12.5°	1710.2	1599.8	1364.8	1170.0	1044.5	983.5	896.5	826.3	741.8	672.4	648.1
15°	1719.4	1613.2	1328.0	1119.8	971.8	866.4	762.7	675.7	582.9	534.4	509.3
17.5°	1869.1	1685.1	1352.3	1067.1	870.6	724.2	596.3	485.9	416.5	366.3	355.4
20°	2053.1	1840.7	1404.1	1028.6	787.8	576.2	435.7	340.4	282.7	274.3	271.8
22.5°	2322.4	2094.9	1515.4	1002.7	686.6	449.1	298.6	247.5	231.7	230.0	230.8
25°	2698.7	2413.5	1636.6	981.0	610.5	346.2	244.2	209.9	204.9	202.4	206.6
27.5°	2861.8	2605.9	1701.0	934.1	541.1	311.9	240.9	208.2	194.0	189.8	192.3
30°	3063.3	2733.8	1802.2	853.9	439.1	256.7	225.0	226.6	219.9	199.0	192.3
32.5°	3331.0	2893.6	1853.2	797.0	392.2	212.4	164.7	151.4	168.9	172.3	178.1
35°	3502.4	3055.8	1879.1	763.5	368.0	181.5	139.7	127.1	122.9	123.8	127.1
37.5°	3821.0	3274.9	1911.8	728.4	349.6	158.1	126.3	114.6	108.7	108.7	112.1
40°	4011.7	3448.9	1956.1	709.2	331.2	143.8	114.6	104.5	99.5	99.5	101.2
42.5°	4059.4	3535.0	1941.0	702.5	310.3	140.5	104.5	97.0	91.2	90.3	89.5
45°	4144.7	3666.3	1943.5	695.0	288.5	128.0	98.7	90.3	82.0	81.1	80.3
47.5°	4238.3	3760.8	1948.6	665.7	267.6	107.0	102.9	83.6	73.6	71.9	71.9
50°	4158.0	3836.1	1992.0	636.4	240.9	87.0	101.2	78.6	65.2	62.7	63.6
52.5°	4168.1	3924.7	2084.0	595.4	207.4	69.4	82.0	74.4	59.4	55.2	56.0
55°	4007.5	3831.1	2096.6	552.0	162.2	53.5	62.7	65.2	50.2	48.5	48.5
57.5°	3449.7	3244.0	1849.9	447.4	107.0	44.3	45.2	56.9	43.5	41.8	42.7
60°	2952.1	2604.2	1488.6	295.2	66.9	35.1	32.6	57.7	38.5	37.6	40.1
62.5°	2691.2	2140.1	1129.0	183.1	46.0	26.8	22.6	46.8	33.5	33.5	36.8
65°	1944.4	1437.6	656.5	96.2	32.6	20.9	16.7	26.8	27.6	28.4	30.1
67.5°	1204.3	725.9	276.8	46.8	21.7	14.2	10.9	16.7	18.4	18.4	20.1
70°	594.6	289.4	92.0	26.8	16.7	11.7	7.5	9.2	9.2	8.4	9.2
72.5°	184.0	87.0	23.4	16.7	11.7	7.5	4.2	3.3	1.7	0.0	0.8
75°	20.9	16.7	15.1	11.7	7.5	3.3	0.8	0.0	0.0	0.0	0.0
77.5°	12.5	14.2	14.2	11.7	7.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	10.0	10.9	11.7	10.9	6.7	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	12.5	14.2	15.9	14.2	9.2	4.2	1.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.5	0.8	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: P526987

CATALOG NUMBER: GALN-SA2A-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0
2.5°	1833.2	1814.8	1840.7	1802.2	1801.4	1802.2	1791.3	1781.3	1797.2	1839.8	1844.0
5°	1399.1	1438.4	1451.0	1491.9	1469.4	1435.9	1442.6	1420.0	1475.2	1499.5	1480.2
7.5°	1018.6	1016.1	1100.6	1105.6	1116.5	1117.3	1115.6	1071.3	1026.1	1036.2	1066.3
10°	790.3	747.6	788.6	784.4	811.2	803.7	814.5	766.9	782.8	782.8	802.0
12.5°	643.9	598.8	591.3	580.4	591.3	595.4	599.6	590.4	617.2	629.7	643.1
15°	491.7	466.7	460.0	439.1	442.4	454.1	464.1	468.3	460.0	479.2	480.9
17.5°	357.1	356.3	360.4	359.6	356.3	353.8	352.9	342.0	338.7	340.4	347.1
20°	271.0	277.6	291.9	306.1	313.6	304.4	291.9	273.5	265.9	267.6	268.4
22.5°	231.7	241.7	260.9	276.8	284.3	267.6	245.0	229.1	225.8	225.0	224.1
25°	209.9	221.6	235.8	240.9	240.0	230.0	213.3	206.6	204.9	203.2	195.7
27.5°	198.2	202.4	204.9	210.7	213.3	206.6	202.4	192.3	190.7	190.7	185.7
30°	191.5	189.0	192.3	188.2	191.5	186.5	187.3	187.3	183.1	184.8	184.8
32.5°	178.1	179.0	179.0	170.6	173.1	167.3	173.1	178.1	179.0	179.8	186.5
35°	130.5	145.5	153.0	153.0	155.6	151.4	150.5	144.7	137.2	129.6	126.3
37.5°	114.6	120.4	130.5	136.3	140.5	137.2	129.6	120.4	116.2	112.9	109.6
40°	102.0	107.0	113.7	120.4	128.8	124.6	112.9	108.7	103.7	103.7	100.4
42.5°	92.0	94.5	98.7	108.7	117.9	109.6	101.2	97.8	95.3	94.5	93.7
45°	82.8	83.6	87.8	96.2	107.0	98.7	90.3	86.1	87.0	87.8	87.0
47.5°	74.4	76.1	78.6	88.6	95.3	91.2	82.0	79.4	79.4	79.4	80.3
50°	64.4	68.6	73.6	82.0	87.0	84.5	76.9	73.6	71.9	71.9	72.8
52.5°	57.7	61.0	67.7	77.8	84.5	80.3	72.8	67.7	64.4	63.6	65.2
55°	50.2	56.0	66.9	74.4	83.6	79.4	71.1	65.2	59.4	58.5	58.5
57.5°	45.2	54.4	64.4	73.6	81.1	77.8	71.1	63.6	56.0	55.2	55.2
60°	42.7	52.7	62.7	71.1	81.1	76.1	70.2	61.9	53.5	53.5	52.7
62.5°	40.1	49.3	59.4	67.7	77.8	73.6	67.7	59.4	51.0	51.0	49.3
65°	33.5	42.7	49.3	56.9	67.7	63.6	57.7	51.9	45.2	43.5	44.3
67.5°	23.4	29.3	36.0	43.5	50.2	48.5	46.0	41.8	36.0	35.1	34.3
70°	11.7	15.9	21.7	29.3	35.1	33.5	31.8	28.4	25.1	24.3	24.3
72.5°	1.7	5.0	9.2	13.4	18.4	19.2	18.4	17.6	16.7	15.9	16.7
75°	0.0	0.0	0.0	3.3	7.5	9.2	10.9	12.5	12.5	10.9	13.4
77.5°	0.0	0.0	0.0	0.0	0.8	4.2	8.4	10.9	13.4	11.7	15.9
80°	0.0	0.0	0.0	0.0	0.8	5.0	8.4	11.7	13.4	11.7	16.7
82.5°	0.0	0.0	0.0	0.0	0.8	5.9	8.4	10.9	12.5	11.7	15.1
85°	0.0	0.0	0.0	0.0	2.5	5.0	3.3	1.7	0.8	0.8	2.5
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: P526987  
 CATALOG NUMBER: GALN-SA2A-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0
2.5°	1867.4	1926.8	1990.4	2014.6	2089.9	2146.8	2185.2	2268.0	2280.6	2281.4
5°	1500.3	1530.4	1639.1	1690.1	1802.2	1889.2	1982.0	2115.8	2205.3	2212.0
7.5°	1066.3	1149.9	1195.9	1328.9	1466.9	1603.2	1741.2	1896.7	2000.4	2002.9
10°	858.0	912.4	994.4	1093.9	1210.1	1348.9	1532.9	1713.6	1818.9	1844.9
12.5°	690.8	786.1	879.8	982.6	1071.3	1175.8	1374.0	1614.9	1701.9	1753.7
15°	531.9	618.9	729.2	849.7	950.0	1089.7	1315.5	1590.6	1737.0	1754.5
17.5°	392.2	470.0	572.0	685.8	836.3	1034.5	1325.5	1713.6	1851.6	1880.8
20°	281.8	327.0	407.3	539.4	730.9	970.1	1335.6	1838.2	2048.1	2098.3
22.5°	223.3	241.7	294.4	411.5	613.0	902.4	1406.6	2076.5	2318.2	2391.0
25°	194.0	204.1	229.1	324.5	538.6	895.7	1520.4	2362.5	2677.8	2730.5
27.5°	187.3	189.0	210.7	297.7	498.4	851.3	1563.9	2565.7	2901.9	2955.5
30°	197.4	224.1	225.8	251.7	424.0	763.5	1586.4	2762.3	3091.8	3131.1
32.5°	170.6	162.2	168.1	194.9	373.0	712.5	1629.1	2933.7	3308.4	3336.0
35°	118.8	124.6	138.0	168.9	326.2	659.0	1640.0	3122.7	3514.1	3542.5
37.5°	109.6	112.9	123.8	143.8	286.8	628.9	1624.9	3260.7	3727.4	3766.7
40°	102.0	106.2	112.1	130.5	257.6	595.4	1604.0	3385.3	3857.8	3954.8
42.5°	96.2	99.5	104.5	124.6	232.5	562.0	1574.7	3560.9	3974.9	4059.4
45°	89.5	94.5	100.4	121.3	218.3	539.4	1553.0	3550.1	4042.6	4087.8
47.5°	82.8	91.2	97.8	112.9	214.1	528.5	1562.2	3509.1	3987.4	3956.5
50°	76.1	87.0	98.7	93.7	204.1	506.8	1573.1	3565.1	3856.1	3850.3
52.5°	70.2	82.8	92.0	76.9	181.5	485.9	1678.4	3638.7	3949.0	3871.2
55°	61.9	74.4	73.6	61.9	147.2	470.0	1761.2	3640.4	3886.3	3915.5
57.5°	56.0	66.1	57.7	51.9	108.7	393.1	1626.6	3052.5	3326.8	3378.6
60°	51.9	64.4	43.5	41.0	71.1	283.5	1420.0	2364.2	2644.4	2742.2
62.5°	47.7	61.0	34.3	33.5	49.3	201.5	1167.5	1978.7	2278.9	2411.9
65°	41.8	43.5	27.6	25.9	35.1	108.7	710.8	1362.3	1703.5	1752.9
67.5°	34.3	33.5	22.6	20.9	23.4	52.7	313.6	682.4	987.7	1070.5
70°	27.6	27.6	19.2	16.7	16.7	24.3	82.0	271.8	446.6	494.2
72.5°	20.1	20.9	15.1	13.4	12.5	11.7	13.4	54.4	117.1	149.7
75°	17.6	18.4	15.1	11.7	9.2	7.5	5.9	5.0	6.7	10.9
77.5°	19.2	19.2	15.9	10.9	8.4	5.9	3.3	1.7	1.7	0.8
80°	24.3	25.1	20.9	14.2	10.0	6.7	4.2	1.7	0.8	0.8
82.5°	25.9	28.4	23.4	17.6	12.5	7.5	4.2	0.8	0.0	0.0
85°	6.7	10.9	18.4	15.9	12.5	7.5	4.2	0.8	0.0	0.0
87.5°	0.0	0.8	2.5	2.5	3.3	3.3	2.5	0.8	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

(END OF REPORT)