

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: INVUE

Report Number: P597170

Luminaire Tested: **MSA-SA4D-835-U-SLR**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4D-835-U-SLR
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18579 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

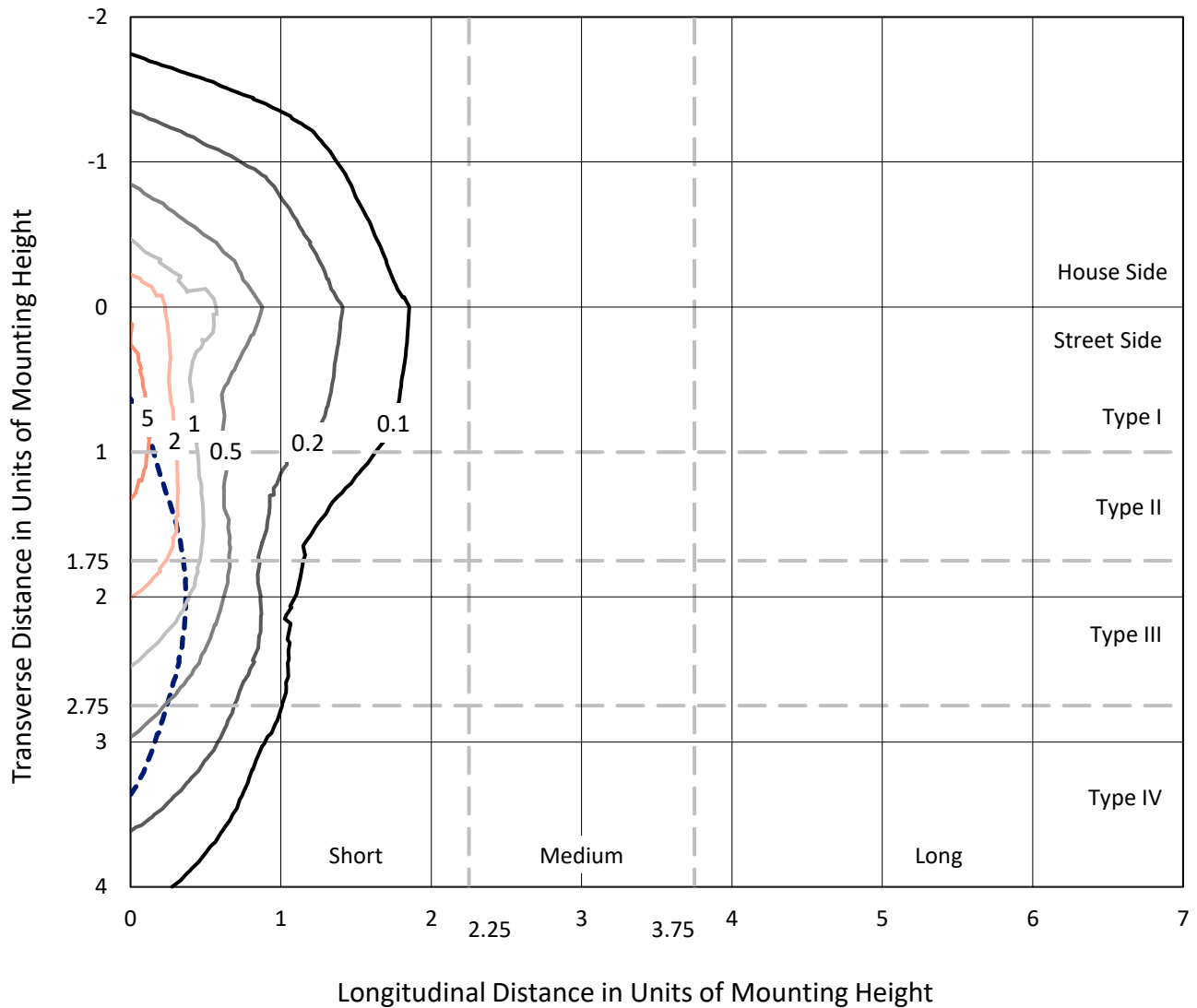
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

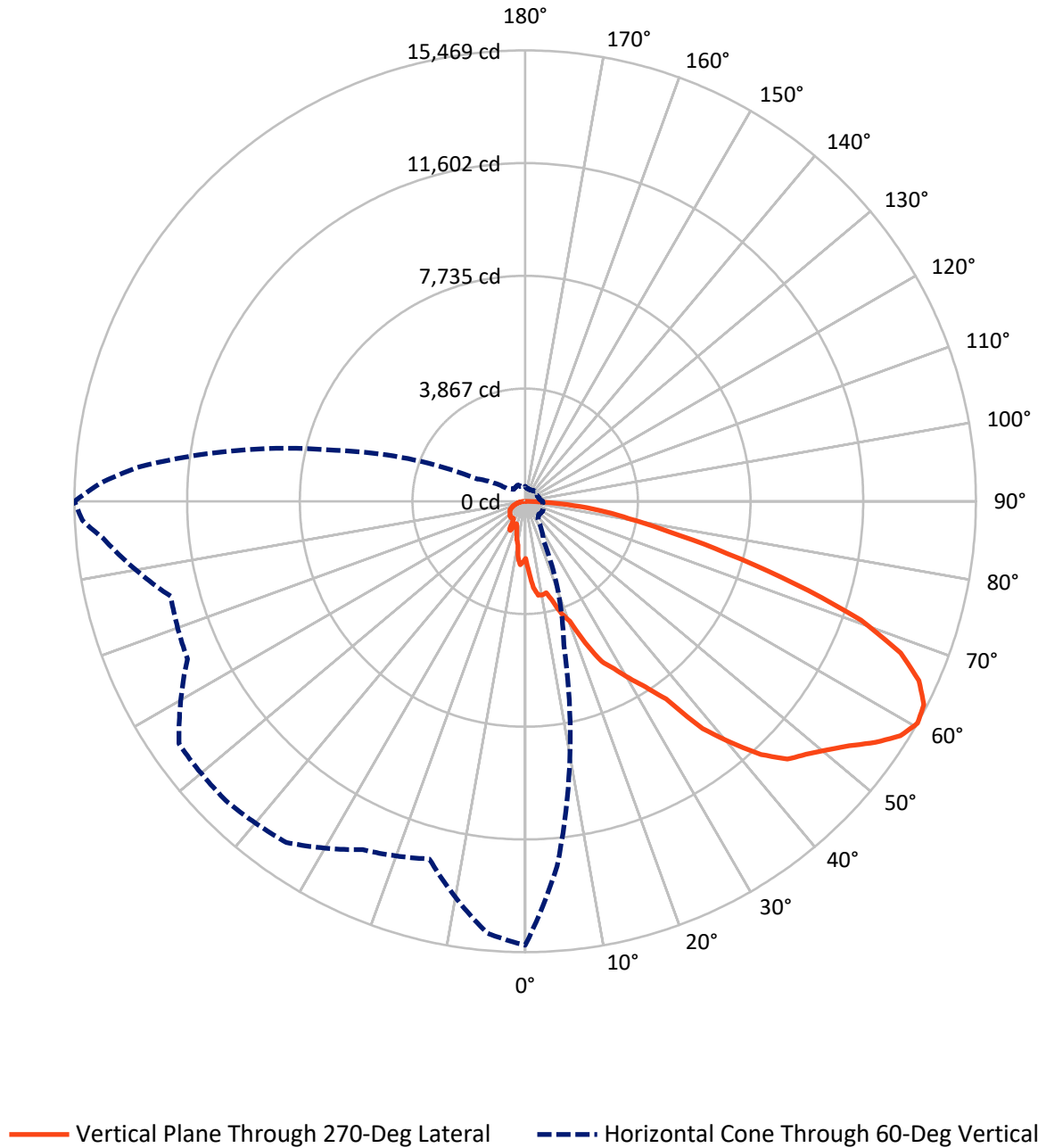
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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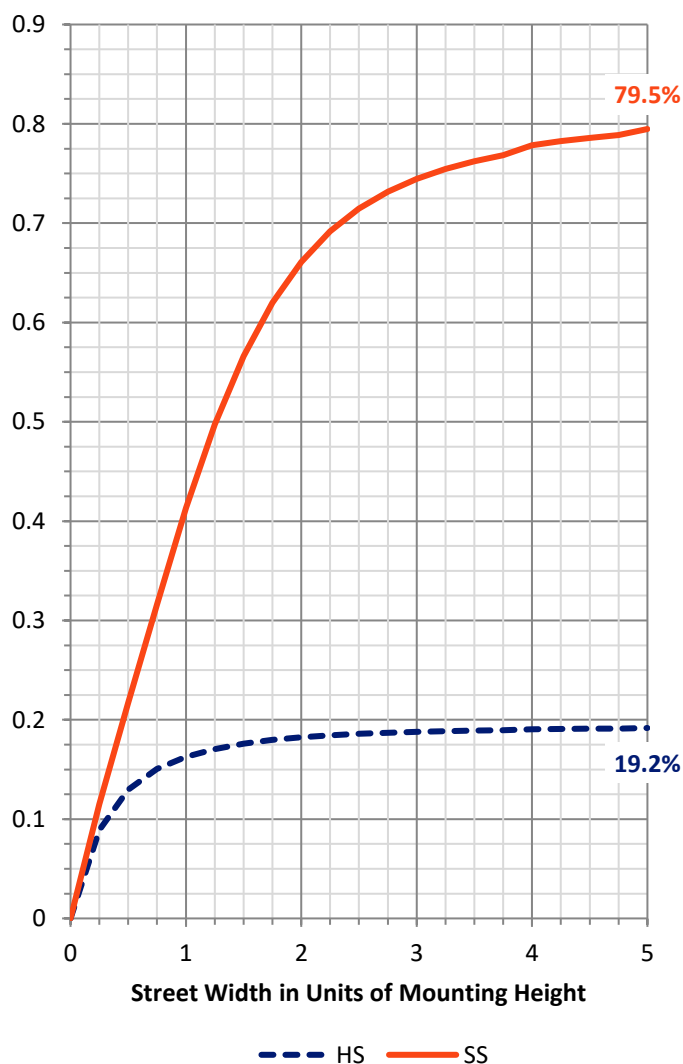
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3598.4	0.0	3598.4
	% Fixture	19.4	0.0	19.4
Street Side	Lumens	14980.6	0.0	14980.6
	% Fixture	80.6	0.0	80.6
Total	Lumens	18579.0	0.0	18579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	1.2
10°-20°	652.8	3.5
20°-30°	1152.4	6.2
30°-40°	1794.8	9.7
40°-50°	2955.0	15.9
50°-60°	4217.7	22.7
60°-70°	4472.3	24.1
70°-80°	2470.2	13.3
80°-90°	639.1	3.4
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°	18579.0	100.0
0°-180°	18579.0	100.0

Coefficient of Utilization



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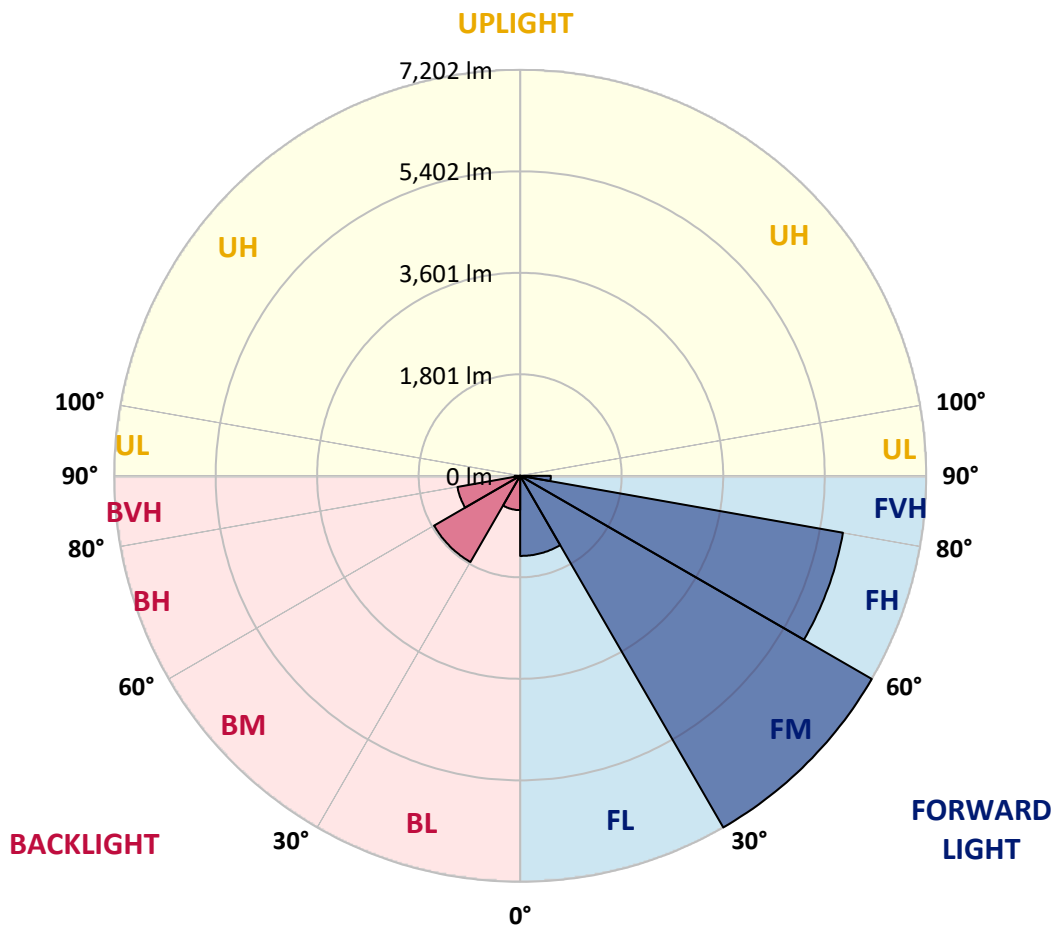
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1421.6	7.7			
FM (30°-60°)	7202.4	38.8			
FH (60°-80°)	5813.4	31.3			G3/7500
FVH (80°-90°)	543.2	2.9			G4/750
BL (0°-30°)	608.3	3.3	B2/1000		
BM (30°-60°)	1765.1	9.5	B2/2500		
BH (60°-80°)	1129.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	95.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	2624.2	2640.5	2655.8	2625.1	2594.5	2562.9	2532.2	2486.2	2439.4	2393.4	2346.5
5°	3151.8	3092.3	3031.8	3007.5	2984.0	2959.7	2935.3	2912.8	2890.3	2866.8	2844.3
7.5°	3316.8	3232.0	3146.4	3110.3	3074.2	3037.2	3001.2	2920.0	2838.9	2756.8	2675.6
10°	3135.5	3047.2	2957.9	2922.7	2886.6	2851.5	2815.4	2716.2	2617.9	2518.7	2419.5
12.5°	3281.6	3191.5	3100.4	2988.5	2876.7	2764.0	2652.2	2597.2	2542.2	2486.2	2431.2
15°	3422.3	3300.6	3177.9	3066.1	2954.3	2841.6	2729.7	2619.7	2509.7	2399.7	2289.7
17.5°	3936.3	3733.4	3530.5	3328.5	3125.6	2923.6	2720.7	2593.6	2465.5	2338.4	2210.3
20°	4563.1	4280.8	3997.7	3691.0	3383.5	3076.9	2769.4	2608.9	2449.3	2288.8	2128.2
22.5°	5308.9	4952.7	4596.4	4209.6	3822.7	3434.9	3048.1	2815.4	2582.7	2349.2	2116.5
25°	5901.3	5558.7	5216.0	4725.4	4234.8	3744.3	3253.7	2989.4	2725.2	2460.1	2195.9
27.5°	6476.7	5931.1	5384.6	4822.8	4261.9	3700.1	3138.2	2893.9	2649.5	2405.1	2160.7
30°	6962.8	6529.9	6097.0	5363.9	4630.7	3896.7	3163.5	2863.2	2562.9	2262.6	1962.3
32.5°	7674.3	7056.5	6437.9	5673.2	4908.5	4143.7	3379.0	2994.9	2610.7	2226.5	1842.4
35°	8506.6	7864.6	7222.5	6276.5	5331.4	4385.4	3439.4	3032.7	2625.1	2218.4	1810.8
37.5°	10058.6	8926.9	7794.2	6761.7	5729.1	4695.6	3663.1	3190.6	2718.0	2244.6	1772.0
40°	10914.4	9868.3	8822.3	7535.4	6248.5	4960.8	3673.9	3190.6	2706.3	2222.9	1738.7
42.5°	12055.2	10732.3	9408.4	8017.0	6626.4	5234.9	3843.4	3307.8	2772.1	2235.5	1699.9
45°	12750.5	11276.0	9800.7	8313.6	6826.6	5339.5	3852.5	3308.7	2764.9	2221.1	1677.3
47.5°	13198.7	11782.9	10366.1	8765.4	7164.8	5563.2	3962.5	3385.3	2807.3	2230.1	1652.1
50°	13623.4	12221.1	10817.9	9155.9	7494.8	5832.8	4170.8	3540.4	2910.1	2278.8	1648.5
52.5°	14144.7	12853.3	11561.0	9778.2	7994.4	6211.6	4427.8	3741.5	3055.3	2369.0	1682.7
55°	14903.1	13630.6	12357.3	10443.7	8529.2	6615.6	4701.1	3939.0	3177.9	2415.9	1653.9
57.5°	15394.5	14104.1	12813.6	10862.1	8910.6	6958.2	5006.8	4162.7	3318.6	2473.6	1629.5
60°	15231.3	13900.3	12568.3	10707.9	8847.5	6987.1	5126.7	4215.0	3304.2	2392.5	1480.7
62.5°	14509.9	13095.0	11680.0	10013.5	8347.9	6681.4	5014.9	4087.8	3161.7	2234.6	1307.6
65°	13501.7	12039.0	10575.3	9072.1	7568.8	6065.5	4562.2	3720.8	2878.5	2037.2	1194.9
67.5°	12264.4	10739.5	9213.6	7882.6	6551.5	5219.6	3888.5	3185.1	2482.6	1779.2	1075.8
70°	10712.4	9213.6	7714.9	6563.3	5411.7	4260.1	3108.5	2579.1	2050.7	1521.3	992.0
72.5°	8610.3	7317.2	6024.0	5117.7	4211.4	3305.1	2398.8	2030.8	1663.8	1295.9	927.9
75°	6124.1	5363.9	4603.7	3898.5	3193.3	2487.2	1781.9	1543.9	1305.8	1067.7	829.7
77.5°	4352.1	3903.9	3455.7	2902.9	2350.1	1797.3	1244.5	1104.7	965.8	826.0	686.3
80°	3217.6	2843.4	2469.1	2052.5	1635.9	1219.2	802.6	734.1	666.4	597.9	529.4
82.5°	2118.3	1949.7	1780.1	1450.1	1120.0	790.0	459.9	434.7	409.4	384.2	358.9
85°	948.7	1001.9	1054.2	852.2	649.3	447.3	244.4	232.7	220.9	209.2	197.5
87.5°	91.1	134.4	177.7	152.4	126.3	101.0	74.8	73.9	73.9	73.0	72.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	2359.1	2371.7	2384.3	2397.0	2383.4	2369.9	2355.5	2342.0	2324.8	2307.7	2289.7
5°	2806.4	2767.6	2729.7	2691.0	2633.2	2575.5	2516.9	2459.2	2452.0	2443.9	2436.6
7.5°	2604.4	2534.0	2462.8	2391.6	2301.4	2212.1	2121.9	2031.7	2004.7	1977.6	1950.6
10°	2371.7	2323.0	2275.2	2226.5	2170.6	2114.7	2057.9	2002.0	1928.0	1853.2	1779.2
12.5°	2351.9	2272.5	2192.3	2112.9	2078.6	2044.4	2010.1	1975.8	1910.9	1846.0	1780.1
15°	2225.6	2160.7	2096.7	2031.7	1982.1	1932.5	1882.9	1833.3	1781.0	1727.8	1675.5
17.5°	2136.4	2062.4	1988.5	1914.5	1857.7	1800.9	1743.2	1686.4	1623.2	1559.2	1496.1
20°	2043.5	1959.6	1874.8	1790.1	1717.9	1646.7	1574.5	1502.4	1433.0	1364.4	1295.0
22.5°	2005.6	1894.7	1783.8	1672.8	1597.1	1520.4	1444.7	1368.0	1304.0	1240.0	1175.9
25°	2063.3	1931.6	1799.1	1666.5	1564.6	1461.8	1359.9	1257.1	1203.9	1150.7	1096.6
27.5°	1995.7	1829.7	1664.7	1498.8	1389.7	1279.6	1170.5	1060.5	1052.4	1044.3	1035.3
30°	1788.3	1614.2	1440.2	1266.1	1166.0	1065.0	964.9	863.9	845.0	825.1	806.2
32.5°	1664.7	1487.1	1309.4	1131.8	1042.5	952.3	863.0	772.8	751.2	729.6	707.9
35°	1617.8	1424.8	1231.9	1038.9	962.2	885.6	808.9	732.3	716.9	702.5	687.2
37.5°	1579.9	1388.8	1196.7	1004.6	930.7	856.7	781.9	707.9	696.2	684.5	672.7
40°	1543.9	1350.0	1155.2	960.4	894.6	829.7	763.8	698.0	690.8	683.6	675.4
42.5°	1511.4	1322.9	1133.6	945.1	886.5	828.7	770.1	711.5	704.3	697.1	689.9
45°	1493.4	1309.4	1125.4	941.5	899.1	856.7	813.4	771.0	753.9	736.8	718.7
47.5°	1479.8	1307.6	1135.4	963.1	918.9	874.7	830.6	786.4	771.0	755.7	739.5
50°	1482.6	1317.5	1151.6	985.7	932.5	878.3	825.1	771.0	769.2	767.4	765.6
52.5°	1506.9	1332.0	1156.1	980.3	922.5	864.8	806.2	748.5	760.2	771.0	782.8
55°	1471.7	1289.6	1106.5	924.3	869.3	815.2	760.2	705.2	720.5	735.0	750.3
57.5°	1432.1	1234.6	1037.1	839.6	798.1	756.6	714.2	672.7	689.0	706.1	722.3
60°	1300.4	1120.0	939.7	759.3	731.4	703.4	675.4	647.5	654.7	661.9	669.1
62.5°	1156.1	1003.7	852.2	699.8	678.1	655.6	634.0	611.4	611.4	612.3	612.3
65°	1064.1	933.4	802.6	671.8	647.5	623.1	597.9	573.5	569.9	566.3	562.7
67.5°	972.1	869.3	765.6	661.9	626.7	592.5	557.3	522.1	517.6	514.0	509.5
70°	900.0	808.0	716.0	624.0	584.4	545.6	505.9	466.2	462.6	459.9	456.3
72.5°	841.4	755.7	669.1	582.6	541.1	498.7	457.2	414.8	412.1	409.4	405.8
75°	753.0	677.2	600.6	523.9	483.4	443.7	403.1	362.5	358.9	356.2	352.6
77.5°	623.1	559.1	496.0	432.0	400.4	369.7	338.2	306.6	304.8	303.0	300.3
80°	479.8	430.2	379.7	330.1	309.3	287.7	266.9	245.3	244.4	243.5	241.7
82.5°	329.2	299.4	269.6	239.9	224.5	208.3	193.0	176.8	177.7	178.6	179.5
85°	187.6	176.8	166.8	156.0	143.4	131.7	119.0	106.4	109.1	111.8	113.6
87.5°	68.5	64.9	61.3	57.7	51.4	46.0	39.7	33.4	35.2	37.9	39.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170

CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	2272.5	2245.5	2218.4	2191.4	2164.3	2108.4	2053.4	1997.5	1941.6	1975.8	2011.0
5°	2428.5	2382.5	2335.6	2289.7	2242.8	2216.6	2190.5	2164.3	2138.2	2151.7	2166.1
7.5°	1923.5	1896.5	1868.5	1841.5	1813.5	1801.8	1791.0	1779.2	1767.5	1800.9	1834.3
10°	1704.4	1666.5	1628.6	1589.9	1552.0	1529.4	1506.9	1484.4	1461.8	1470.8	1479.8
12.5°	1715.2	1659.3	1603.4	1547.5	1491.6	1458.2	1424.8	1391.5	1358.1	1366.2	1374.3
15°	1622.3	1564.6	1506.9	1449.2	1391.5	1352.7	1313.0	1274.2	1234.6	1221.0	1206.6
17.5°	1432.1	1368.9	1305.8	1242.7	1179.5	1153.4	1127.2	1101.1	1074.9	1060.5	1046.1
20°	1225.5	1166.9	1108.3	1049.7	991.1	973.0	955.0	936.1	918.0	909.0	899.1
22.5°	1111.9	1075.8	1038.9	1002.8	965.8	945.1	925.2	904.5	883.8	873.8	863.0
25°	1043.4	1050.6	1058.7	1065.9	1073.1	1064.1	1054.2	1045.2	1035.3	1038.9	1041.6
27.5°	1027.1	1042.5	1058.7	1074.0	1089.4	1097.5	1105.6	1113.7	1121.8	1124.5	1127.2
30°	786.4	794.5	801.7	809.8	817.0	839.6	862.1	883.8	906.3	941.5	977.5
32.5°	686.3	683.6	680.9	677.2	674.5	680.0	685.4	689.9	695.3	707.9	721.4
35°	671.8	665.5	658.3	652.0	644.8	647.5	650.2	652.9	655.6	665.5	675.4
37.5°	661.0	658.3	656.5	653.8	651.1	657.4	662.8	669.1	674.5	682.7	690.8
40°	668.2	667.3	666.4	664.6	663.7	667.3	670.9	674.5	678.1	689.0	699.8
42.5°	682.7	682.7	681.8	681.8	680.9	684.5	687.2	690.8	693.5	699.8	706.1
45°	701.6	699.8	698.9	697.1	695.3	694.4	694.4	693.5	692.6	696.2	700.7
47.5°	724.1	717.8	710.6	704.3	697.1	695.3	692.6	690.8	688.1	689.9	691.7
50°	763.8	746.7	730.5	713.3	696.2	691.7	687.2	682.7	678.1	677.2	677.2
52.5°	793.6	768.3	743.1	717.8	692.6	684.5	676.3	668.2	660.1	658.3	657.4
55°	764.7	745.8	727.7	708.8	689.9	678.1	665.5	653.8	641.2	638.5	635.8
57.5°	738.6	726.8	715.1	703.4	691.7	680.0	667.3	655.6	643.0	636.7	630.4
60°	676.3	676.3	677.2	677.2	677.2	664.6	652.0	639.4	626.7	620.4	615.0
62.5°	612.3	622.2	631.3	641.2	650.2	633.1	615.0	597.9	579.9	575.3	571.7
65°	559.1	561.8	565.4	568.1	570.8	557.3	543.8	530.3	516.7	514.0	510.4
67.5°	505.0	504.1	503.2	501.4	500.5	492.4	483.4	475.2	466.2	462.6	459.0
70°	452.7	451.8	450.9	449.1	448.2	441.0	433.8	426.5	419.3	416.6	413.9
72.5°	403.1	402.2	400.4	399.5	397.7	391.4	386.0	379.7	373.3	369.7	366.1
75°	349.0	347.2	345.4	343.6	341.8	336.4	331.0	324.6	319.2	315.6	312.0
77.5°	298.5	295.8	293.1	289.5	286.8	282.3	276.9	272.3	266.9	262.4	258.8
80°	240.8	239.0	237.2	234.5	232.7	228.2	223.6	218.2	213.7	208.3	203.8
82.5°	180.4	179.5	177.7	176.8	174.9	170.4	165.9	161.4	156.9	151.5	146.1
85°	116.3	115.4	114.5	113.6	112.7	109.1	106.4	102.8	99.2	93.8	89.3
87.5°	41.5	39.7	38.8	37.0	35.2	34.3	32.5	31.6	29.8	27.1	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170

CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	2045.3	2079.5	2080.4	2080.4	2096.7	2112.0	2080.4	2048.9	2016.4	1984.9	1953.3
5°	2179.6	2193.2	2189.6	2185.0	2165.2	2145.4	2124.6	2103.9	2083.1	2062.4	2063.3
7.5°	1867.6	1901.0	1928.0	1954.2	1928.9	1903.7	1890.2	1876.6	1863.1	1849.6	1847.8
10°	1488.0	1497.0	1507.8	1517.7	1502.4	1486.2	1513.2	1540.3	1566.4	1593.5	1563.7
12.5°	1382.5	1390.6	1371.6	1351.8	1345.5	1339.2	1332.9	1325.6	1319.3	1312.1	1308.5
15°	1193.1	1178.6	1164.2	1148.9	1145.3	1140.8	1136.3	1130.9	1126.3	1120.9	1104.7
17.5°	1031.7	1017.2	992.9	967.6	957.7	946.9	944.2	941.5	937.9	935.2	919.8
20°	890.1	880.2	873.8	866.6	856.7	846.8	836.9	826.9	816.1	806.2	791.8
22.5°	853.1	842.3	834.2	825.1	823.3	821.5	803.5	784.6	766.5	747.6	739.5
25°	1045.2	1047.9	998.3	947.8	943.3	938.8	906.3	872.9	840.5	807.1	779.2
27.5°	1129.0	1131.8	1129.9	1128.1	1113.7	1098.4	1043.4	987.5	932.5	876.5	836.9
30°	1012.7	1047.9	1061.4	1074.9	1065.0	1054.2	996.5	939.7	882.0	824.2	798.1
32.5°	734.1	746.7	769.2	790.9	802.6	813.4	795.4	777.3	759.3	741.3	736.8
35°	684.5	694.4	698.9	703.4	696.2	689.0	675.4	661.9	647.5	634.0	631.3
37.5°	698.0	706.1	715.1	724.1	704.3	683.6	668.2	653.8	638.5	623.1	610.5
40°	710.6	721.4	726.8	732.3	712.4	692.6	673.6	655.6	636.7	617.7	605.1
42.5°	712.4	718.7	728.7	738.6	710.6	681.8	664.6	646.6	629.5	611.4	598.8
45°	704.3	707.9	716.9	725.9	693.5	660.1	644.8	628.6	613.2	597.0	586.2
47.5°	692.6	694.4	701.6	707.9	673.6	638.5	624.0	609.6	594.3	579.9	569.0
50°	676.3	675.4	680.9	685.4	650.2	615.0	600.6	587.1	572.6	558.2	549.2
52.5°	655.6	653.8	659.2	663.7	626.7	589.8	577.1	565.4	552.8	540.2	533.0
55°	632.2	629.5	634.0	638.5	602.4	565.4	554.6	542.9	532.1	520.3	514.0
57.5°	623.1	616.8	619.5	622.2	581.7	541.1	530.3	519.4	508.6	497.8	493.3
60°	608.7	602.4	605.1	606.9	563.6	519.4	509.5	498.7	488.8	478.0	473.4
62.5°	567.2	562.7	566.3	569.9	531.2	491.5	482.5	474.3	465.3	456.3	450.0
65°	507.7	504.1	511.3	518.5	485.2	451.8	446.4	441.0	434.7	429.3	422.9
67.5°	455.4	451.8	459.0	466.2	441.9	417.5	412.1	406.7	401.3	395.9	392.3
70°	411.2	408.5	414.8	421.1	400.4	379.7	374.2	369.7	364.3	358.9	356.2
72.5°	361.6	358.0	366.1	373.3	356.2	338.2	333.7	328.3	323.7	318.3	316.5
75°	308.4	304.8	312.0	318.3	306.6	294.0	289.5	285.0	280.5	275.9	275.0
77.5°	254.3	249.8	257.0	263.3	256.1	248.0	244.4	239.9	236.3	231.8	231.8
80°	198.4	193.0	198.4	202.9	200.2	197.5	194.8	191.2	188.5	184.9	185.8
82.5°	140.7	135.3	138.0	140.7	142.5	144.3	144.3	144.3	144.3	144.3	144.3
85°	83.9	78.5	79.4	80.3	83.0	85.7	86.6	87.5	88.4	89.3	90.2
87.5°	21.6	18.9	17.1	14.4	17.1	18.9	20.7	21.6	23.4	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170

CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	1921.7	1889.3	1857.7	1877.5	1896.5	1916.3	1935.3	1936.2	1936.2	1937.1	1937.1
5°	2065.1	2066.0	2066.9	2048.0	2029.9	2011.0	1992.1	1982.1	1972.2	1961.4	1951.5
7.5°	1845.1	1843.3	1840.6	1822.5	1804.5	1786.5	1768.4	1725.1	1680.9	1637.7	1593.5
10°	1533.1	1503.3	1472.6	1465.4	1459.1	1451.9	1444.7	1433.0	1422.1	1410.4	1398.7
12.5°	1304.9	1301.3	1297.7	1278.7	1259.8	1240.0	1221.0	1221.0	1221.0	1221.0	1221.0
15°	1087.6	1071.3	1054.2	1045.2	1035.3	1026.2	1016.3	1011.8	1007.3	1002.8	998.3
17.5°	903.6	888.3	872.0	870.2	868.4	866.6	864.8	860.3	855.8	851.3	846.8
20°	777.3	762.9	748.5	753.9	759.3	763.8	769.2	764.7	760.2	754.8	750.3
22.5°	730.5	722.3	713.3	708.8	704.3	698.9	694.4	694.4	695.3	695.3	695.3
25°	752.1	724.1	696.2	682.7	669.1	654.7	641.2	635.8	631.3	625.8	620.4
27.5°	797.2	756.6	716.9	693.5	670.0	646.6	623.1	613.2	602.4	592.5	581.7
30°	771.0	744.9	717.8	690.8	663.7	636.7	609.6	597.0	584.4	570.8	558.2
32.5°	732.3	726.8	722.3	697.1	671.8	645.7	620.4	615.0	610.5	605.1	599.7
35°	627.6	624.9	621.3	615.0	608.7	602.4	596.1	588.9	581.7	574.4	567.2
37.5°	598.8	586.2	573.5	570.8	568.1	565.4	562.7	560.0	557.3	553.7	551.0
40°	592.5	579.9	567.2	562.7	558.2	552.8	548.3	549.2	551.0	551.9	552.8
42.5°	585.3	572.6	559.1	555.5	551.9	548.3	544.7	545.6	547.4	548.3	549.2
45°	576.2	565.4	554.6	548.3	542.9	536.6	530.3	535.7	541.1	545.6	551.0
47.5°	558.2	546.5	535.7	532.1	528.5	523.9	520.3	525.7	531.2	535.7	541.1
50°	539.3	530.3	520.3	519.4	518.5	516.7	515.8	519.4	523.0	526.6	530.3
52.5°	524.8	517.6	509.5	509.5	508.6	508.6	507.7	511.3	514.9	517.6	521.2
55°	508.6	502.3	496.0	496.9	498.7	499.6	500.5	504.1	508.6	512.2	515.8
57.5°	487.9	483.4	478.0	481.6	484.3	487.9	490.6	493.3	496.9	499.6	502.3
60°	468.0	463.5	458.1	461.7	466.2	469.8	473.4	476.1	478.9	481.6	484.3
62.5°	443.7	436.5	430.2	435.6	440.1	445.5	450.0	451.8	454.5	456.3	458.1
65°	417.5	411.2	404.9	408.5	412.1	414.8	418.4	421.1	423.8	426.5	429.3
67.5°	387.8	384.2	379.7	382.4	385.1	387.8	390.5	391.4	391.4	392.3	392.3
70°	352.6	349.9	346.3	348.1	350.8	352.6	354.4	354.4	354.4	353.5	353.5
72.5°	315.6	313.8	312.0	312.9	314.7	315.6	316.5	315.6	314.7	313.8	312.9
75°	274.1	273.2	272.3	273.2	275.0	275.9	276.9	275.9	274.1	273.2	271.4
77.5°	232.7	232.7	232.7	232.7	233.6	233.6	233.6	231.8	230.0	228.2	226.4
80°	186.7	187.6	188.5	188.5	188.5	188.5	188.5	186.7	184.9	182.2	180.4
82.5°	144.3	144.3	144.3	144.3	145.2	145.2	145.2	140.7	137.1	132.6	128.1
85°	90.2	91.1	91.1	92.0	92.9	92.9	93.8	87.5	82.1	75.8	69.4
87.5°	24.3	24.3	24.3	24.3	24.3	23.4	23.4	18.0	11.7	6.3	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170

CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	1942.5	1947.9	1952.4	1957.8	1958.7	1959.6	1959.6	1960.5	1941.6	1922.6	1902.8
5°	1965.0	1977.6	1991.2	2003.8	2001.1	1998.4	1995.7	1993.0	1987.6	1983.0	1977.6
7.5°	1583.6	1574.5	1564.6	1554.7	1562.8	1570.9	1579.0	1587.2	1590.8	1594.4	1597.1
10°	1376.1	1353.6	1331.0	1308.5	1295.9	1282.4	1269.7	1256.2	1254.4	1253.5	1251.7
12.5°	1197.6	1173.2	1149.8	1125.4	1118.2	1110.1	1102.9	1094.8	1102.0	1109.2	1115.5
15°	988.4	979.3	969.4	959.5	967.6	975.7	983.9	992.0	999.2	1005.5	1012.7
17.5°	842.3	838.7	834.2	829.7	836.9	845.0	852.2	859.4	875.6	891.9	908.1
20°	746.7	744.0	740.4	736.8	734.1	730.5	727.7	724.1	747.6	770.1	793.6
22.5°	689.9	684.5	679.1	673.6	674.5	675.4	675.4	676.3	695.3	715.1	734.1
25°	618.6	616.8	615.0	613.2	618.6	624.0	628.6	634.0	651.1	668.2	684.5
27.5°	582.6	583.5	584.4	585.3	592.5	600.6	607.8	615.0	626.7	638.5	650.2
30°	562.7	568.1	572.6	577.1	579.9	582.6	585.3	588.0	599.7	610.5	622.2
32.5°	592.5	585.3	577.1	569.9	573.5	578.1	581.7	585.3	596.1	606.9	617.7
35°	564.5	560.9	558.2	554.6	559.1	563.6	567.2	571.7	581.7	590.7	600.6
37.5°	550.1	549.2	548.3	547.4	550.1	552.8	554.6	557.3	566.3	575.3	583.5
40°	549.2	544.7	541.1	536.6	539.3	542.0	543.8	546.5	557.3	568.1	579.0
42.5°	543.8	538.4	532.1	526.6	529.4	533.0	535.7	538.4	550.1	560.9	572.6
45°	542.9	534.8	525.7	517.6	521.2	524.8	528.5	532.1	541.1	550.1	558.2
47.5°	533.0	524.8	516.7	508.6	510.4	512.2	513.1	514.9	523.0	530.3	538.4
50°	524.8	518.5	513.1	506.8	504.1	502.3	499.6	496.9	503.2	509.5	515.8
52.5°	514.9	508.6	501.4	495.1	491.5	487.9	484.3	480.7	486.1	490.6	496.0
55°	508.6	500.5	493.3	485.2	480.7	476.1	471.6	467.1	470.7	473.4	477.0
57.5°	495.1	487.9	479.8	472.5	467.1	461.7	455.4	450.0	451.8	453.6	455.4
60°	477.0	468.9	461.7	453.6	447.3	441.0	433.8	427.5	428.4	430.2	431.1
62.5°	450.9	443.7	435.6	428.4	421.1	414.8	407.6	400.4	402.2	403.1	404.9
65°	422.0	413.9	406.7	398.6	392.3	386.0	378.8	372.4	374.2	376.0	377.0
67.5°	386.9	380.6	375.1	368.8	363.4	357.1	351.7	345.4	346.3	347.2	348.1
70°	349.0	343.6	339.1	333.7	329.2	324.6	320.1	315.6	315.6	316.5	316.5
72.5°	308.4	303.9	299.4	294.9	290.4	286.8	282.3	277.8	279.6	281.4	282.3
75°	266.9	263.3	258.8	254.3	250.7	247.1	242.6	239.0	240.8	242.6	243.5
77.5°	223.6	220.9	217.3	214.6	211.0	207.4	202.9	199.3	201.1	202.9	203.8
80°	178.6	176.8	174.0	172.2	168.6	165.0	161.4	157.8	158.7	158.7	159.6
82.5°	129.0	129.9	129.9	130.8	128.1	124.4	121.7	118.1	118.1	118.1	117.2
85°	72.1	75.8	78.5	81.2	78.5	75.8	73.0	70.3	69.4	69.4	68.5
87.5°	2.7	4.5	7.2	9.0	8.1	7.2	5.4	4.5	5.4	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170

CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	1883.8	1899.2	1914.5	1929.8	1945.2	1968.6	1992.1	2016.4	2040.8	2027.2	2012.8
5°	1972.2	1981.2	1991.2	2000.2	2009.2	2035.4	2060.6	2092.2	2122.8	2119.2	2114.7
7.5°	1600.7	1613.3	1625.9	1637.7	1650.3	1690.0	1729.6	1763.0	1796.4	1791.9	1786.5
10°	1249.9	1276.0	1303.1	1329.2	1355.4	1387.9	1419.4	1447.4	1475.3	1522.2	1568.2
12.5°	1122.7	1163.3	1203.9	1244.5	1285.1	1308.5	1331.0	1367.1	1403.2	1428.4	1454.6
15°	1019.0	1056.9	1094.8	1132.7	1170.5	1172.3	1174.1	1212.0	1249.9	1271.5	1292.3
17.5°	924.3	945.1	965.8	985.7	1006.4	999.2	992.0	1010.0	1027.1	1036.2	1046.1
20°	816.1	830.6	845.0	859.4	873.8	883.8	892.8	903.6	913.5	904.5	894.6
22.5°	753.0	774.6	797.2	818.8	840.5	846.8	852.2	845.9	839.6	836.9	834.2
25°	701.6	727.7	754.8	781.0	807.1	819.7	832.4	837.8	842.3	832.4	822.4
27.5°	661.9	693.5	724.1	755.7	786.4	808.9	831.5	837.8	843.2	836.0	827.8
30°	633.1	667.3	701.6	735.9	770.1	804.4	837.8	867.5	896.4	893.7	891.0
32.5°	628.6	652.0	675.4	698.9	722.3	744.0	764.7	766.5	767.4	760.2	752.1
35°	609.6	624.9	640.3	655.6	670.9	684.5	697.1	695.3	693.5	686.3	679.1
37.5°	592.5	607.8	624.0	639.4	654.7	678.1	700.7	696.2	690.8	683.6	676.3
40°	589.8	606.9	624.0	640.3	657.4	679.1	700.7	696.2	691.7	682.7	673.6
42.5°	583.5	600.6	616.8	634.0	650.2	676.3	701.6	693.5	684.5	677.2	670.0
45°	567.2	582.6	597.9	613.2	628.6	656.5	684.5	674.5	664.6	661.9	658.3
47.5°	545.6	560.9	576.2	591.6	606.9	634.9	661.9	653.8	644.8	643.9	642.1
50°	522.1	536.6	551.9	566.3	580.8	608.7	635.8	628.6	621.3	622.2	622.2
52.5°	500.5	514.0	526.6	540.2	552.8	580.8	607.8	602.4	596.1	597.9	598.8
55°	479.8	490.6	501.4	512.2	523.0	550.1	577.1	569.0	560.9	563.6	566.3
57.5°	457.2	466.2	475.2	483.4	492.4	519.4	545.6	536.6	526.6	531.2	534.8
60°	432.0	440.1	448.2	455.4	463.5	487.9	511.3	503.2	494.2	500.5	505.9
62.5°	405.8	412.1	418.4	424.7	431.1	453.6	476.1	469.8	463.5	470.7	477.0
65°	378.8	383.3	388.7	393.2	397.7	419.3	440.1	435.6	431.1	437.4	443.7
67.5°	349.0	352.6	357.1	360.7	364.3	384.2	404.0	399.5	394.1	399.5	404.0
70°	316.5	320.1	322.8	326.4	329.2	347.2	365.2	358.9	351.7	357.1	361.6
72.5°	284.1	285.9	288.6	290.4	292.2	305.7	319.2	313.8	308.4	313.8	318.3
75°	245.3	247.1	248.9	250.7	252.5	264.2	275.0	268.7	261.5	266.9	272.3
77.5°	205.6	206.5	208.3	209.2	210.1	218.2	225.4	219.1	211.9	218.2	224.5
80°	159.6	160.5	161.4	161.4	162.3	165.0	167.7	163.2	157.8	165.9	174.0
82.5°	117.2	116.3	116.3	115.4	114.5	114.5	113.6	110.9	107.3	114.5	121.7
85°	67.6	66.7	64.9	64.0	62.2	59.5	56.8	55.9	55.0	61.3	67.6
87.5°	7.2	6.3	4.5	3.6	1.8	0.9	0.0	0.0	0.0	3.6	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170

CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	1999.3	1984.9	1971.3	1957.8	1944.3	1930.7	1956.0	1981.2	2006.5	2031.7	2054.3
5°	2111.1	2106.6	2094.9	2084.0	2072.3	2060.6	2066.9	2074.1	2080.4	2086.8	2100.3
7.5°	1781.9	1776.5	1801.8	1826.1	1851.4	1875.7	1882.0	1887.5	1893.8	1899.2	1895.6
10°	1615.1	1661.1	1672.8	1683.7	1695.4	1706.2	1724.2	1742.3	1759.4	1777.4	1787.4
12.5°	1479.8	1505.1	1546.6	1589.0	1630.4	1671.9	1699.0	1726.0	1753.1	1780.1	1836.1
15°	1313.9	1334.7	1366.2	1397.8	1429.3	1460.9	1499.7	1539.4	1578.1	1616.9	1678.2
17.5°	1055.1	1064.1	1087.6	1111.0	1133.6	1157.0	1209.3	1260.7	1313.0	1364.4	1434.8
20°	885.6	875.6	875.6	876.5	876.5	876.5	928.8	980.3	1032.6	1084.0	1176.8
22.5°	830.6	827.8	817.9	807.1	797.2	786.4	813.4	841.4	868.4	895.5	971.2
25°	811.6	801.7	789.1	776.4	763.8	751.2	768.3	785.5	802.6	819.7	879.2
27.5°	820.6	812.5	818.8	824.2	830.6	836.0	841.4	846.8	852.2	857.6	878.3
30°	888.3	885.6	895.5	904.5	914.4	923.4	910.8	899.1	886.5	873.8	881.1
32.5°	744.9	736.8	733.2	729.6	725.9	722.3	721.4	720.5	718.7	717.8	734.1
35°	671.8	664.6	659.2	653.8	647.5	642.1	644.8	646.6	649.3	651.1	669.1
37.5°	669.1	661.9	655.6	649.3	642.1	635.8	638.5	642.1	644.8	647.5	661.0
40°	664.6	655.6	652.0	648.4	644.8	641.2	643.0	644.8	645.7	647.5	657.4
42.5°	661.9	654.7	652.9	651.1	649.3	647.5	649.3	651.1	652.0	653.8	665.5
45°	655.6	652.0	653.8	655.6	657.4	659.2	659.2	659.2	659.2	659.2	671.8
47.5°	641.2	639.4	644.8	650.2	655.6	661.0	670.0	679.1	687.2	696.2	698.9
50°	623.1	623.1	632.2	641.2	649.3	658.3	680.0	700.7	722.3	743.1	729.6
52.5°	600.6	601.5	615.0	627.6	641.2	653.8	673.6	693.5	712.4	732.3	712.4
55°	568.1	570.8	588.0	604.2	621.3	637.6	652.9	668.2	683.6	698.9	678.1
57.5°	539.3	542.9	560.9	578.1	596.1	613.2	622.2	632.2	641.2	650.2	636.7
60°	512.2	517.6	541.1	564.5	587.1	610.5	603.3	596.1	588.0	580.8	579.9
62.5°	484.3	490.6	512.2	533.9	554.6	576.2	565.4	554.6	542.9	532.1	536.6
65°	449.1	455.4	465.3	475.2	484.3	494.2	493.3	493.3	492.4	491.5	500.5
67.5°	409.4	413.9	420.2	425.6	432.0	437.4	441.0	445.5	449.1	452.7	463.5
70°	367.0	371.5	377.9	383.3	389.6	395.0	399.5	404.0	407.6	412.1	422.9
72.5°	323.7	328.3	334.6	340.9	346.3	352.6	356.2	359.8	362.5	366.1	375.1
75°	277.8	283.2	289.5	294.9	301.2	306.6	309.3	312.0	314.7	317.4	325.5
77.5°	230.9	237.2	243.5	249.8	256.1	262.4	263.3	264.2	265.1	266.0	273.2
80°	181.3	189.4	195.7	202.0	208.3	214.6	214.6	214.6	214.6	214.6	218.2
82.5°	129.0	136.2	143.4	149.7	156.9	163.2	163.2	162.3	162.3	161.4	161.4
85°	73.9	80.3	84.8	90.2	94.7	99.2	99.2	99.2	98.3	98.3	96.5
87.5°	11.7	15.3	17.1	19.8	21.6	23.4	22.5	22.5	21.6	20.7	18.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170

CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	2076.8	2099.4	2121.9	2118.3	2114.7	2111.1	2107.5	2121.0	2133.6	2147.2	2159.8
5°	2112.9	2126.4	2139.1	2149.0	2158.9	2168.8	2178.7	2224.7	2269.8	2315.8	2360.9
7.5°	1892.0	1887.5	1883.8	1926.2	1969.5	2011.9	2054.3	2112.9	2171.5	2230.1	2288.8
10°	1797.3	1807.2	1817.1	1834.3	1852.3	1869.4	1886.6	1944.3	2002.0	2059.7	2117.4
12.5°	1891.1	1947.0	2002.0	2015.5	2029.9	2043.5	2057.0	2068.7	2080.4	2091.3	2103.0
15°	1739.6	1800.9	1862.2	1897.4	1932.5	1966.8	2002.0	2090.4	2177.8	2266.2	2353.7
17.5°	1504.2	1574.5	1644.0	1730.5	1817.1	1903.7	1990.3	2071.4	2152.6	2232.8	2314.0
20°	1269.7	1361.7	1454.6	1549.3	1643.1	1737.8	1831.5	1910.9	1990.3	2068.7	2148.1
22.5°	1046.1	1121.8	1196.7	1312.1	1426.6	1542.1	1656.6	1804.5	1951.5	2099.4	2246.4
25°	937.9	997.4	1056.0	1175.0	1294.1	1412.2	1531.2	1723.3	1914.5	2106.6	2297.8
27.5°	900.0	920.7	941.5	1049.7	1157.0	1265.2	1372.5	1579.9	1787.4	1993.9	2201.3
30°	888.3	895.5	902.7	987.5	1072.2	1157.0	1241.8	1446.5	1652.1	1856.8	2061.5
32.5°	749.4	765.6	781.0	863.9	946.0	1028.9	1111.0	1317.5	1523.1	1729.6	1935.3
35°	687.2	705.2	723.2	804.4	885.6	965.8	1047.0	1264.3	1482.6	1699.9	1917.2
37.5°	674.5	688.1	701.6	793.6	885.6	977.5	1069.5	1289.6	1509.6	1729.6	1949.7
40°	668.2	678.1	688.1	777.3	867.5	956.8	1046.1	1276.9	1506.9	1737.8	1967.7
42.5°	676.3	688.1	698.9	780.1	860.3	941.5	1021.7	1260.7	1498.8	1737.8	1975.8
45°	683.6	696.2	707.9	783.7	859.4	935.2	1010.9	1266.1	1520.4	1775.6	2029.9
47.5°	700.7	703.4	705.2	771.0	836.0	901.8	966.7	1226.4	1486.2	1745.0	2004.7
50°	715.1	701.6	687.2	755.7	823.3	891.9	959.5	1205.7	1451.9	1697.2	1943.4
52.5°	692.6	671.8	652.0	725.9	799.9	872.9	946.9	1193.1	1440.2	1686.4	1932.5
55°	658.3	637.6	616.8	691.7	766.5	841.4	916.2	1161.5	1407.7	1653.0	1898.3
57.5°	624.0	610.5	597.0	658.3	720.5	781.9	843.2	1109.2	1374.3	1640.4	1905.5
60°	579.0	577.1	576.2	624.0	672.7	720.5	768.3	1028.9	1288.7	1549.3	1809.0
62.5°	540.2	544.7	548.3	587.1	625.8	663.7	702.5	954.1	1206.6	1458.2	1709.8
65°	510.4	519.4	528.5	572.6	616.8	660.1	704.3	915.3	1126.3	1337.4	1548.4
67.5°	474.3	485.2	496.0	553.7	611.4	669.1	726.8	900.9	1074.9	1249.0	1423.0
70°	432.9	443.7	453.6	527.5	600.6	674.5	747.6	901.8	1056.9	1211.1	1365.3
72.5°	384.2	393.2	402.2	481.6	560.9	640.3	719.6	850.4	981.2	1111.0	1241.8
75°	334.6	342.7	350.8	419.3	487.9	556.4	624.9	725.9	826.0	927.0	1027.1
77.5°	279.6	286.8	293.1	339.1	385.1	431.1	477.0	554.6	631.3	708.8	785.5
80°	221.8	225.4	229.1	256.1	282.3	309.3	335.5	386.9	438.3	488.8	540.2
82.5°	162.3	162.3	162.3	179.5	197.5	214.6	231.8	257.9	283.2	309.3	334.6
85°	94.7	92.0	90.2	101.9	113.6	125.3	137.1	147.9	158.7	169.5	180.4
87.5°	15.3	11.7	9.0	16.2	23.4	30.7	37.9	41.5	46.0	49.6	53.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170

CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	2129.1	2099.4	2068.7	2038.1	2083.1	2128.2	2173.3	2218.4	2338.4	2409.6	2414.1
5°	2398.8	2436.6	2474.5	2512.4	2550.3	2588.2	2625.1	2663.0	2857.8	2977.7	3000.3
7.5°	2351.0	2414.1	2476.3	2538.6	2645.9	2753.2	2860.5	2967.8	3132.8	3251.9	3330.3
10°	2195.0	2272.5	2350.1	2427.6	2554.8	2682.8	2810.0	2937.1	3112.1	3269.0	3343.9
12.5°	2226.5	2350.1	2472.7	2596.3	2706.3	2817.2	2927.2	3037.2	3158.1	3217.6	3353.8
15°	2439.4	2525.0	2610.7	2696.4	2862.3	3027.3	3193.3	3358.3	3426.8	3563.0	3685.6
17.5°	2471.8	2628.7	2786.5	2943.5	3146.4	3349.3	3552.2	3755.1	3882.2	4058.1	4206.0
20°	2370.8	2592.7	2815.4	3037.2	3298.8	3561.2	3822.7	4084.2	4245.7	4393.5	4622.6
22.5°	2491.7	2736.9	2981.3	3226.6	3573.8	3920.1	4267.3	4613.6	4950.9	5280.9	5436.0
25°	2625.1	2953.4	3280.7	3608.1	4041.8	4474.7	4908.5	5341.3	5775.1	6084.4	6263.0
27.5°	2531.3	2860.5	3190.6	3519.7	4056.3	4593.7	5130.3	5666.9	6131.3	6503.7	6657.0
30°	2465.5	2869.5	3273.5	3677.5	4307.0	4936.4	5565.9	6195.3	6624.6	7040.3	7265.8
32.5°	2453.8	2972.3	3489.9	4008.5	4741.6	5473.9	6207.1	6939.3	7224.3	7593.1	7897.0
35°	2486.2	3056.2	3625.2	4194.2	5034.7	5875.2	6714.8	7555.2	7960.1	8325.4	8591.4
37.5°	2585.4	3221.2	3856.1	4491.8	5504.6	6518.2	7530.9	8543.6	9222.7	9890.9	10009.9
40°	2641.4	3315.9	3989.5	4663.2	5840.9	7018.7	8196.4	9374.2	10155.1	10888.3	10937.9
42.5°	2707.2	3438.5	4169.0	4900.4	6206.2	7512.9	8818.7	10124.5	11091.2	11879.3	11902.8
45°	2782.9	3535.0	4288.0	5040.1	6403.6	7766.3	9129.8	10492.4	11661.1	12618.8	12385.3
47.5°	2812.7	3621.6	4429.6	5237.6	6691.3	8144.1	9597.8	11050.6	12099.4	12970.5	12746.9
50°	2824.4	3706.4	4587.4	5468.5	6974.5	8481.4	9987.4	11493.4	12560.2	13409.7	13067.0
52.5°	2897.5	3862.4	4827.3	5792.2	7361.4	8930.5	10499.6	12068.7	13118.4	13934.5	13508.9
55°	2995.8	4093.2	5189.8	6287.3	7911.4	9534.7	11158.8	12782.0	13835.3	14594.6	14067.1
57.5°	3086.8	4269.1	5450.4	6631.8	8314.5	9998.2	11680.9	13363.7	14430.5	15181.7	14670.4
60°	3042.7	4276.3	5510.0	6743.6	8397.5	10050.5	11704.4	13357.4	14568.5	15469.4	15207.9
62.5°	2909.2	4108.6	5307.1	6506.4	8076.5	9645.6	11215.6	12784.7	14202.4	15357.6	15345.8
65°	2652.2	3756.0	4858.9	5962.7	7415.5	8869.2	10321.9	11774.7	13445.8	14849.0	14940.0
67.5°	2339.3	3255.5	4171.7	5087.9	6455.9	7824.0	9192.0	10560.0	12346.5	13894.9	13973.3
70°	2036.3	2708.1	3379.0	4050.0	5251.2	6452.3	7652.6	8853.8	10658.3	12224.7	12296.9
72.5°	1680.9	2120.1	2558.4	2997.6	3970.6	4943.6	5915.8	6888.8	8473.3	9678.1	10084.8
75°	1287.8	1548.4	1809.0	2069.6	2856.9	3644.2	4430.5	5217.8	6271.1	7160.3	7618.4
77.5°	920.7	1056.0	1191.3	1326.5	1995.7	2664.8	3333.0	4002.2	4555.9	5060.0	5369.3
80°	604.2	667.3	731.4	794.5	1350.9	1907.3	2462.8	3019.2	3356.5	3627.0	3783.0
82.5°	366.1	397.7	428.4	459.9	910.8	1361.7	1811.7	2262.6	2455.6	2584.5	2723.4
85°	197.5	214.6	231.8	248.9	538.4	826.9	1116.4	1405.0	1423.9	1439.3	1645.8
87.5°	57.7	63.1	67.6	72.1	119.0	166.8	213.7	260.6	162.3	101.0	207.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170

CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	2388.0	2376.2	2364.5	2351.9	2340.2	2290.6	2241.9	2192.3	2142.7	2190.5	2237.4
5°	2974.1	3010.2	3045.4	3081.4	3117.5	3120.2	3122.0	3124.7	3126.5	3135.5	3144.6
7.5°	3396.2	3460.2	3523.3	3587.3	3651.4	3701.0	3750.6	3801.1	3850.7	3805.6	3760.5
10°	3432.2	3567.5	3702.8	3838.0	3973.3	3997.7	4021.1	4045.5	4069.8	4102.3	4133.8
12.5°	3468.3	3633.3	3797.5	3962.5	4127.5	4199.7	4270.9	4343.0	4414.3	4449.5	4483.7
15°	3849.8	3947.2	4043.6	4141.0	4237.5	4287.1	4335.8	4385.4	4435.0	4464.8	4493.6
17.5°	4340.3	4376.4	4411.6	4447.7	4483.7	4517.1	4550.5	4583.8	4617.2	4622.6	4628.0
20°	4787.6	4794.8	4801.2	4808.4	4814.7	4744.3	4674.9	4604.6	4534.2	4546.8	4558.6
22.5°	5458.6	5418.9	5380.1	5340.4	5301.7	5169.1	5037.4	4904.9	4773.2	4716.4	4660.5
25°	6468.6	6367.6	6266.6	6165.6	6064.6	5853.6	5643.4	5432.4	5222.3	5098.7	4976.1
27.5°	6794.1	6574.1	6354.9	6134.9	5914.9	5755.3	5596.5	5436.9	5278.2	5082.5	4886.8
30°	7452.4	7105.2	6759.0	6411.8	6064.6	5910.4	5756.2	5601.0	5446.8	5246.6	5047.3
32.5°	8035.9	7675.2	7314.5	6952.8	6592.1	6299.9	6007.8	5715.6	5423.4	5288.1	5152.9
35°	8711.3	8257.7	7804.1	7350.5	6896.9	6646.2	6396.4	6145.7	5895.9	5691.2	5487.4
37.5°	9695.2	9212.7	8730.3	8246.9	7764.5	7425.4	7087.2	6748.1	6410.0	6297.2	6185.4
40°	10633.1	10063.1	9494.1	8924.2	8355.1	8095.4	7835.7	7575.1	7315.4	7125.1	6934.8
42.5°	11418.5	10854.9	10292.2	9728.6	9165.8	8976.5	8788.0	8598.6	8410.1	8253.2	8096.3
45°	11688.2	11228.2	10769.2	10309.3	9849.4	9782.7	9716.8	9650.1	9584.3	9467.9	9351.6
47.5°	12121.9	11653.0	11185.0	10716.0	10247.1	10271.4	10295.8	10321.0	10345.4	10351.7	10357.1
50°	12377.1	11931.6	11487.1	11041.6	10597.0	10715.1	10832.4	10950.5	11068.6	11336.5	11603.4
52.5°	12749.6	12312.2	11875.7	11438.4	11001.0	11201.2	11400.5	11600.7	11800.0	12175.1	12550.3
55°	13216.7	12798.3	12380.7	11962.3	11544.8	11739.6	11933.5	12128.2	12322.1	12739.7	13157.2
57.5°	13836.2	13388.0	12940.8	12492.6	12045.3	12224.7	12403.3	12582.7	12761.3	13158.1	13554.9
60°	14541.4	14054.5	13567.5	13079.6	12592.7	12642.3	12691.0	12740.6	12789.3	13219.4	13648.7
62.5°	14887.7	14436.8	13986.8	13535.9	13085.0	12947.1	12809.1	12670.2	12532.2	12917.3	13301.5
65°	14587.4	14277.2	13967.9	13657.7	13347.5	13104.0	12861.4	12617.9	12374.4	12615.2	12855.1
67.5°	13631.5	13455.7	13280.7	13104.9	12929.0	12520.5	12112.0	11702.6	11294.1	11310.3	11325.6
70°	12082.2	12035.4	11989.4	11942.5	11895.6	11281.5	10668.2	10054.1	9440.0	9346.2	9252.4
72.5°	10119.0	10149.7	10179.5	10210.1	10240.8	9580.7	8920.6	8260.4	7600.3	7444.3	7288.3
75°	7837.5	8007.0	8176.6	8347.0	8516.6	7885.3	7254.0	6621.9	5990.6	5798.5	5606.5
77.5°	5537.9	5854.5	6170.1	6486.6	6803.1	6232.3	5662.4	5091.5	4520.7	4396.2	4271.8
80°	3861.5	4016.6	4171.7	4326.8	4481.9	4195.1	3908.4	3621.6	3334.8	3369.1	3402.5
82.5°	2812.7	2848.8	2883.9	2920.0	2956.1	2838.9	2721.6	2603.5	2486.2	2575.5	2664.8
85°	1801.8	1930.7	2058.8	2187.8	2315.8	2186.0	2056.1	1925.3	1795.5	1855.0	1914.5
87.5°	403.1	637.6	872.0	1107.4	1341.9	1215.6	1090.3	964.0	837.8	781.0	725.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170

CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	2285.1	2332.9	2318.5	2305.0	2290.6	2276.1	2302.3	2328.4	2355.5	2381.6	2372.6
5°	3154.5	3163.5	3077.8	2993.1	2907.4	2821.7	2874.9	2928.1	2981.3	3034.5	3015.6
7.5°	3715.4	3670.3	3620.7	3571.1	3520.6	3471.0	3460.2	3449.4	3437.6	3426.8	3412.4
10°	4166.3	4197.9	4165.4	4133.8	4101.4	4068.9	3993.1	3917.4	3840.7	3765.0	3733.4
12.5°	4518.9	4554.1	4562.2	4569.4	4577.5	4585.6	4500.9	4417.0	4332.2	4247.5	4170.8
15°	4523.4	4553.2	4579.3	4604.6	4630.7	4656.0	4603.7	4552.3	4500.0	4447.7	4423.3
17.5°	4634.3	4639.7	4618.1	4597.4	4575.7	4555.0	4534.2	4514.4	4493.6	4473.8	4435.0
20°	4571.2	4583.8	4581.1	4578.4	4574.8	4572.1	4573.9	4574.8	4576.6	4577.5	4555.9
22.5°	4603.7	4546.8	4558.6	4569.4	4581.1	4591.9	4624.4	4656.9	4690.2	4722.7	4809.3
25°	4852.6	4729.0	4710.1	4692.0	4673.1	4655.1	4739.8	4823.7	4908.5	4993.2	5133.9
27.5°	4690.2	4494.5	4451.3	4408.0	4364.7	4321.4	4450.4	4578.4	4707.4	4836.3	4979.7
30°	4847.1	4647.9	4552.3	4456.7	4360.2	4264.6	4388.1	4510.8	4634.3	4757.0	4915.7
32.5°	5017.6	4882.3	4818.3	4755.2	4691.1	4628.0	4637.9	4647.9	4657.8	4667.7	4891.3
35°	5282.7	5078.0	5014.9	4951.8	4888.6	4825.5	4931.0	5035.6	5141.1	5245.7	5435.1
37.5°	6072.7	5960.0	5846.3	5732.7	5618.2	5504.6	5566.8	5629.0	5691.2	5753.5	5932.0
40°	6744.5	6554.2	6535.3	6517.3	6498.3	6479.4	6484.8	6489.3	6494.7	6500.1	6652.5
42.5°	7938.5	7781.6	7685.1	7588.6	7492.1	7395.6	7389.3	7383.0	7375.8	7369.5	7484.0
45°	9234.4	9118.0	9045.9	8973.8	8900.7	8828.6	8714.0	8599.5	8484.1	8369.6	8469.7
47.5°	10363.4	10369.7	10500.5	10630.4	10761.1	10891.9	10696.2	10500.5	10304.8	10109.1	9980.2
50°	11871.2	12138.2	12169.7	12200.4	12231.9	12263.5	11931.6	11600.7	11268.8	10937.0	10801.7
52.5°	12926.3	13301.5	13252.8	13205.0	13156.3	13107.6	12915.5	12724.3	12532.2	12340.2	12045.3
55°	13575.6	13993.2	13956.2	13920.1	13883.1	13846.2	13706.4	13566.6	13426.8	13287.0	12963.3
57.5°	13951.7	14348.5	14359.3	14370.1	14380.9	14391.7	14354.8	14317.8	14280.8	14243.8	13822.7
60°	14078.8	14509.0	14513.5	14517.1	14521.6	14525.2	14466.6	14408.0	14348.5	14289.8	14014.8
62.5°	13686.5	14070.7	14087.8	14104.1	14121.2	14138.3	14097.8	14057.2	14016.6	13976.0	13772.2
65°	13095.9	13336.6	13341.2	13344.8	13349.3	13353.8	13251.0	13149.1	13046.3	12943.5	12894.8
67.5°	11341.9	11358.1	11453.7	11549.3	11644.9	11740.5	11748.6	11756.7	11765.7	11773.8	11703.5
70°	9158.6	9064.8	9168.5	9272.3	9376.0	9479.7	9523.9	9568.0	9613.1	9657.3	9689.8
72.5°	7131.4	6975.4	7052.0	7128.7	7206.2	7282.9	7217.1	7151.2	7085.4	7019.6	7227.9
75°	5414.4	5222.3	5212.4	5203.4	5193.4	5184.4	5151.1	5117.7	5083.4	5050.1	5244.8
77.5°	4146.5	4022.0	4028.3	4033.7	4040.0	4045.5	4011.2	3977.8	3943.5	3909.3	3984.1
80°	3436.7	3470.1	3471.0	3471.9	3472.8	3473.7	3441.2	3409.7	3377.2	3344.8	3290.6
82.5°	2755.0	2844.3	2843.4	2843.4	2842.5	2841.6	2839.8	2837.9	2835.2	2833.4	2745.1
85°	1974.0	2033.5	1972.2	1910.9	1849.6	1788.3	1833.3	1878.4	1924.4	1969.5	1932.5
87.5°	668.2	612.3	539.3	467.1	394.1	321.0	399.5	478.0	557.3	635.8	680.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170

CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	2364.5	2355.5	2347.4	2290.6	2232.8	2176.0	2118.3	2222.9	2328.4	2433.0	2537.7
5°	2997.6	2978.6	2960.6	2956.1	2951.6	2946.2	2941.7	2994.9	3048.1	3100.4	3153.6
7.5°	3398.0	3383.5	3369.1	3331.2	3294.3	3256.4	3218.5	3251.0	3282.5	3315.0	3346.6
10°	3702.8	3671.2	3639.6	3557.6	3476.4	3394.4	3312.3	3287.9	3263.6	3239.2	3214.9
12.5°	4094.1	4016.6	3939.9	3847.1	3753.3	3660.4	3566.6	3554.0	3541.3	3529.6	3517.0
15°	4399.9	4375.5	4351.2	4277.2	4203.3	4129.3	4055.4	3956.2	3856.1	3756.9	3657.7
17.5°	4397.2	4358.4	4320.5	4419.7	4518.0	4617.2	4715.5	4610.0	4503.6	4398.1	4292.5
20°	4534.2	4511.7	4490.0	4673.1	4855.3	5038.3	5220.5	5162.8	5104.2	5046.4	4987.8
22.5°	4894.9	4981.5	5067.2	5224.1	5380.1	5537.0	5693.0	5758.9	5824.7	5890.5	5956.4
25°	5273.7	5414.4	5555.1	5788.6	6021.3	6254.8	6488.4	6535.3	6582.2	6629.1	6676.0
27.5°	5122.2	5265.6	5409.0	5585.7	5761.6	5938.3	6114.2	6319.8	6526.3	6731.9	6937.5
30°	5073.5	5232.2	5390.0	5632.6	5874.3	6116.9	6359.5	6642.6	6925.8	7208.0	7491.2
32.5°	5114.1	5337.7	5561.4	5889.6	6217.0	6545.2	6873.5	7171.1	7469.6	7767.2	8064.8
35°	5623.6	5813.0	6001.4	6368.5	6735.5	7102.5	7469.6	7818.6	8167.6	8515.6	8864.6
37.5°	6109.7	6288.2	6466.8	6841.9	7216.2	7591.3	7966.5	8517.5	9069.4	9620.3	10171.3
40°	6804.0	6956.4	7107.9	7429.0	7750.0	8071.1	8392.1	9056.7	9721.3	10386.0	11050.6
42.5°	7597.6	7712.1	7825.8	8158.5	8491.3	8824.1	9156.8	9880.1	10604.2	11327.4	12050.7
45°	8568.9	8669.0	8769.1	8998.1	9227.2	9457.1	9686.2	10432.0	11177.7	11923.5	12669.3
47.5°	9851.2	9722.3	9593.3	9706.0	9818.7	9931.5	10044.2	10781.9	11519.5	12256.3	12994.0
50°	10666.4	10531.2	10395.9	10405.8	10414.8	10424.7	10434.7	11122.7	11810.8	12498.0	13186.0
52.5°	11750.4	11454.6	11159.7	11157.0	11154.3	11150.7	11148.0	11747.7	12348.3	12948.0	13547.7
55°	12639.6	12315.8	11992.1	11928.9	11865.8	11801.8	11738.7	12332.0	12924.5	13517.9	14110.4
57.5°	13401.6	12979.5	12558.4	12459.2	12360.0	12260.8	12161.6	12801.0	13441.3	14080.6	14720.0
60°	13740.6	13465.6	13191.5	13069.7	12948.0	12826.2	12704.5	13249.2	13793.9	14337.6	14882.3
62.5°	13569.3	13365.5	13162.6	13190.6	13218.5	13246.5	13274.4	13585.5	13897.6	14208.7	14519.8
65°	12847.0	12798.3	12750.5	12975.9	13201.4	13426.8	13652.3	13656.8	13661.3	13665.8	13670.3
67.5°	11633.2	11562.8	11492.5	11961.4	12429.4	12898.4	13367.3	13144.6	12921.8	12700.0	12477.2
70°	9721.3	9753.8	9785.4	10423.8	11061.4	11699.9	12338.4	12015.5	11691.8	11368.9	11045.2
72.5°	7436.2	7645.4	7853.7	8515.6	9177.6	9839.5	10501.4	10132.6	9762.8	9394.0	9024.3
75°	5439.6	5634.4	5829.2	6483.0	7136.8	7791.5	8445.3	8007.0	7568.8	7131.4	6693.1
77.5°	4059.0	4134.7	4209.6	4753.4	5296.2	5840.0	6382.9	5942.8	5502.8	5063.6	4623.5
80°	3237.4	3183.3	3130.1	3431.3	3732.5	4033.7	4334.9	4022.9	3710.0	3398.0	3085.9
82.5°	2657.6	2569.2	2481.7	2593.6	2705.4	2818.1	2929.9	2680.1	2430.3	2180.5	1930.7
85°	1895.6	1858.6	1821.6	1854.1	1885.7	1918.1	1950.6	1707.1	1463.6	1221.0	977.5
87.5°	725.0	770.1	815.2	866.6	917.1	968.5	1019.0	798.1	577.1	357.1	136.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
 CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597170
CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1959.6	1959.6
2.5°	2580.9	2624.2
5°	3152.7	3151.8
7.5°	3332.1	3316.8
10°	3175.2	3135.5
12.5°	3399.8	3281.6
15°	3540.4	3422.3
17.5°	4114.9	3936.3
20°	4775.9	4563.1
22.5°	5632.6	5308.9
25°	6289.1	5901.3
27.5°	6707.6	6476.7
30°	7227.0	6962.8
32.5°	7870.0	7674.3
35°	8686.1	8506.6
37.5°	10115.4	10058.6
40°	10983.0	10914.4
42.5°	12053.4	12055.2
45°	12709.9	12750.5
47.5°	13096.8	13198.7
50°	13405.2	13623.4
52.5°	13846.2	14144.7
55°	14507.2	14903.1
57.5°	15057.3	15394.5
60°	15057.3	15231.3
62.5°	14515.3	14509.9
65°	13586.4	13501.7
67.5°	12370.8	12264.4
70°	10879.3	10712.4
72.5°	8817.8	8610.3
75°	6409.1	6124.1
77.5°	4488.2	4352.1
80°	3151.8	3217.6
82.5°	2024.5	2118.3
85°	963.1	948.7
87.5°	113.6	91.1
90°	0.0	0.0
92.5°	0.0	0.0
95°	0.0	0.0
97.5°	0.0	0.0
100°	0.0	0.0
102.5°	0.0	0.0
105°	0.0	0.0
107.5°	0.0	0.0
110°	0.0	0.0



REPORT NUMBER: P597170
CATALOG NUMBER: MSA-SA4D-835-U-SLR

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	0.0	0.0
115°	0.0	0.0
117.5°	0.0	0.0
120°	0.0	0.0
122.5°	0.0	0.0
125°	0.0	0.0
127.5°	0.0	0.0
130°	0.0	0.0
132.5°	0.0	0.0
135°	0.0	0.0
137.5°	0.0	0.0
140°	0.0	0.0
142.5°	0.0	0.0
145°	0.0	0.0
147.5°	0.0	0.0
150°	0.0	0.0
152.5°	0.0	0.0
155°	0.0	0.0
157.5°	0.0	0.0
160°	0.0	0.0
162.5°	0.0	0.0
165°	0.0	0.0
167.5°	0.0	0.0
170°	0.0	0.0
172.5°	0.0	0.0
175°	0.0	0.0
177.5°	0.0	0.0
180°	0.0	0.0

(END OF REPORT)