

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: P597103

Luminaire Tested: **MSA-SA4A-835-U-SLR-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-25)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4A-835-U-SLR-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9323 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

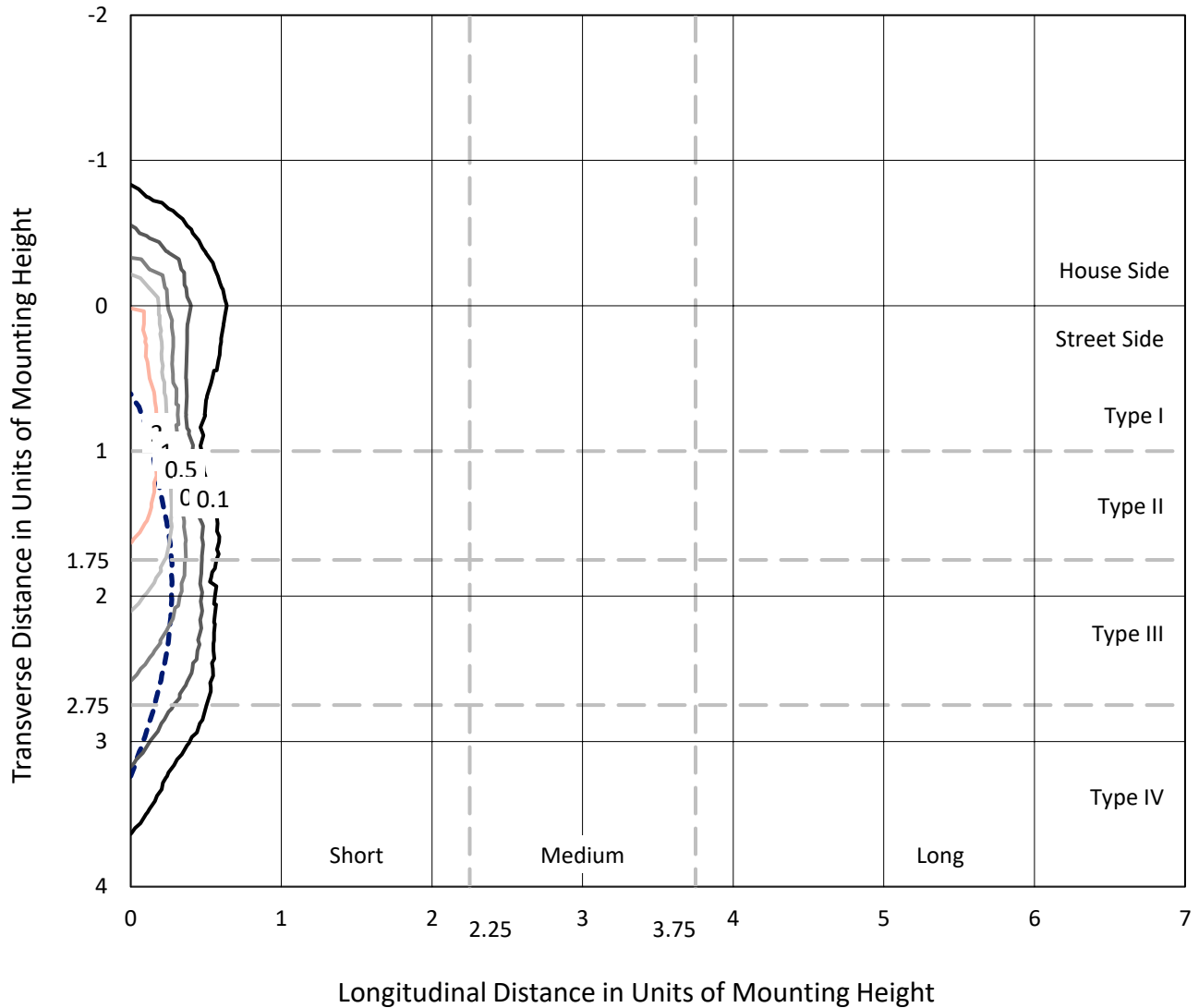
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

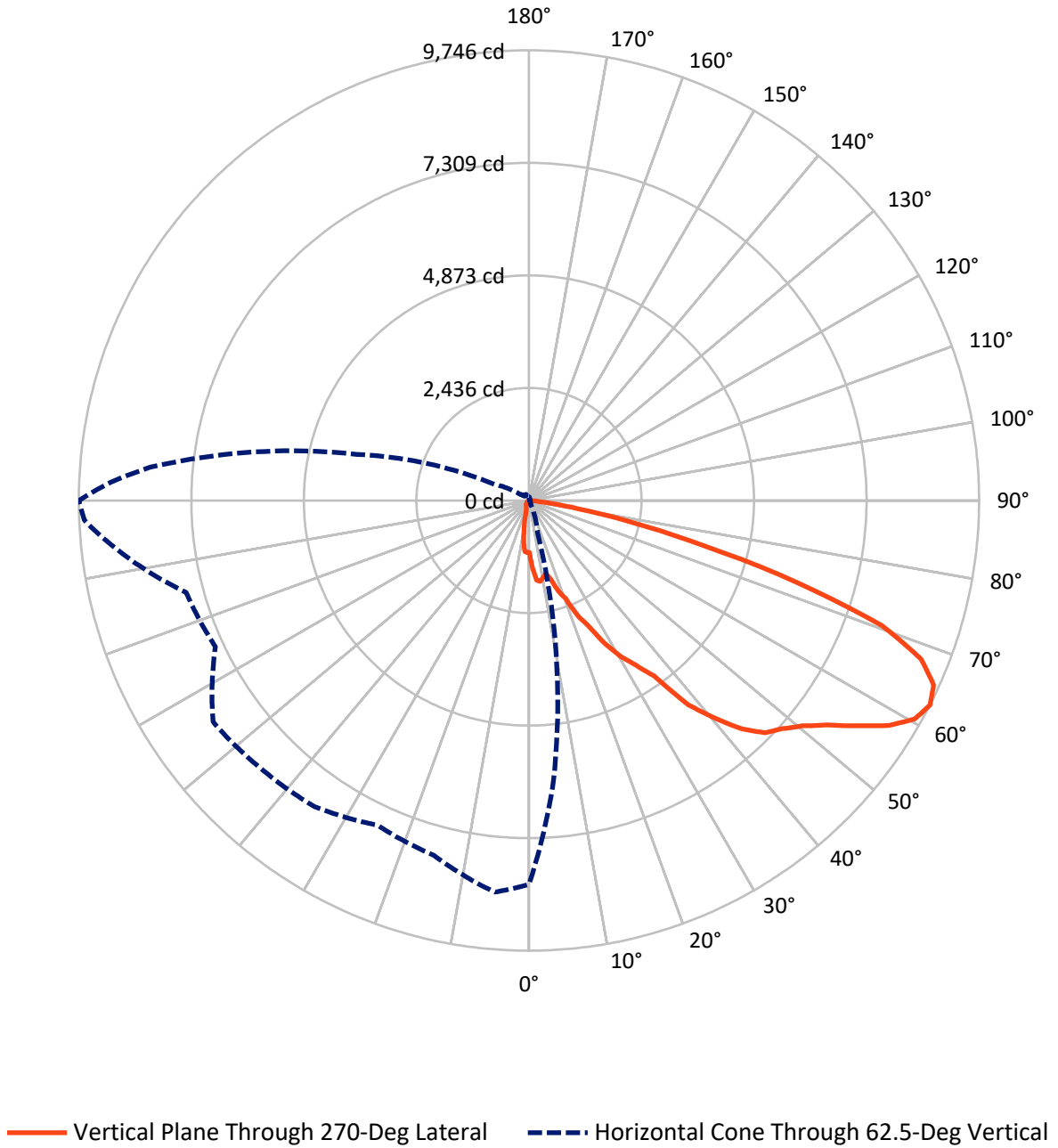
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	1556.8	0.0	1556.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	7766.2	0.0	7766.2
	% Fixture	83.3	0.0	83.3
Total	Lumens	9323.0	0.0	9323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	1.3
10°-20°	327.9	3.5
20°-30°	530.0	5.7
30°-40°	887.6	9.5
40°-50°	1451.1	15.6
50°-60°	2148.1	23.0
60°-70°	2466.0	26.5
70°-80°	1219.3	13.1
80°-90°	167.5	1.8
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°	9323.0	100.0
0°-180°	9323.0	100.0

Coefficient of Utilization

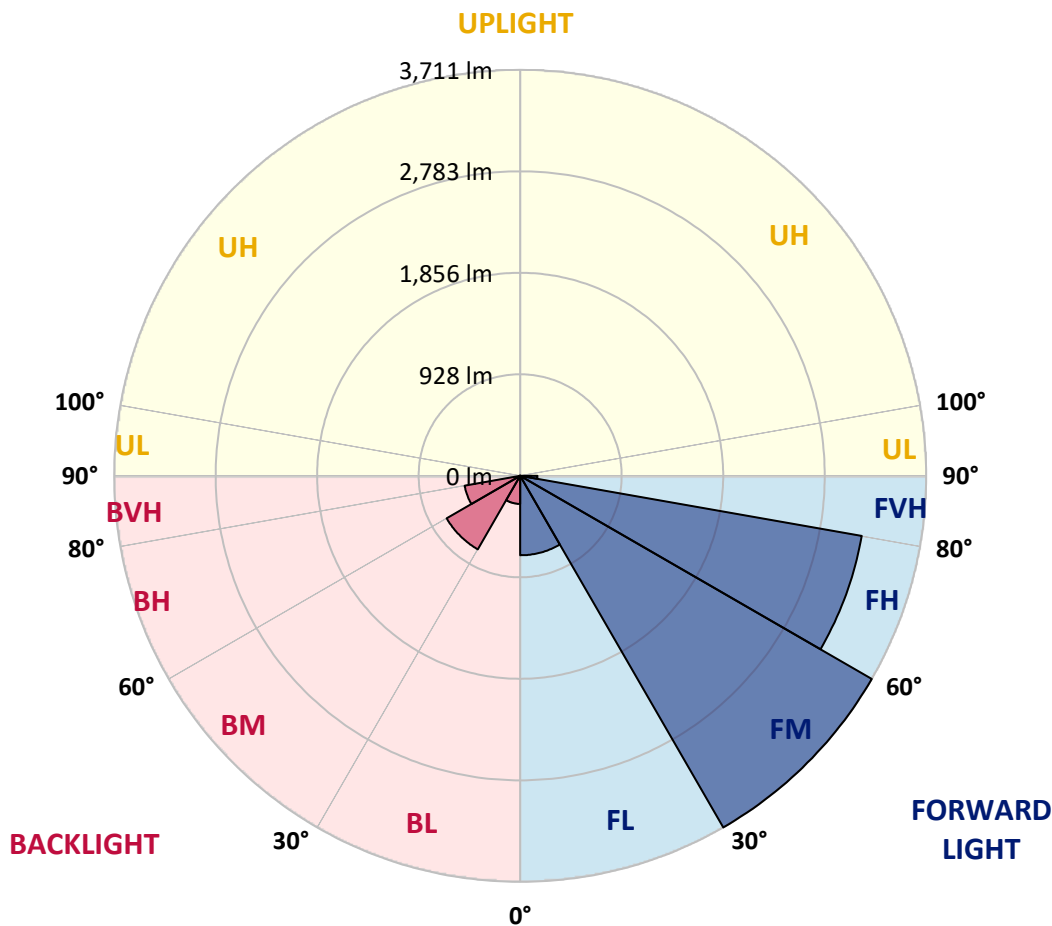


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.3	7.8			
FM (30°-60°)	3711.0	39.8			
FH (60°-80°)	3170.3	34.0			G2/5000
FVH (80°-90°)	158.6	1.7			G2/225
BL (0°-30°)	257.1	2.8	B1/500		
BM (30°-60°)	775.8	8.3	B1/1000		
BH (60°-80°)	515.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 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°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1489.6	1508.2	1526.3	1491.8	1457.2	1422.7	1388.1	1357.3	1326.5	1295.1	1264.3
5°	1916.9	1882.9	1848.9	1802.1	1755.3	1708.6	1661.8	1640.0	1618.2	1596.4	1574.7
7.5°	2065.7	2005.1	1944.0	1902.6	1861.6	1820.2	1778.7	1713.4	1647.5	1582.1	1516.2
10°	1948.8	1884.5	1819.7	1783.5	1747.4	1711.2	1675.1	1593.8	1511.9	1430.6	1348.8
12.5°	2002.5	1932.8	1863.2	1788.8	1714.4	1640.0	1565.6	1503.4	1440.7	1378.6	1315.8
15°	2039.7	1960.0	1879.7	1794.7	1709.6	1624.6	1539.6	1466.2	1393.4	1320.1	1246.8
17.5°	2258.1	2143.8	2029.6	1898.8	1768.1	1637.4	1506.6	1421.6	1337.1	1252.1	1167.0
20°	2538.7	2376.6	2214.0	2037.0	1860.0	1683.1	1506.1	1400.3	1294.6	1188.8	1083.1
22.5°	2865.0	2662.5	2459.5	2241.1	2023.2	1804.8	1586.3	1434.4	1282.4	1130.4	978.4
25°	3193.4	3010.6	2827.8	2533.9	2240.0	1945.6	1651.7	1458.8	1265.4	1072.4	879.0
27.5°	3786.5	3459.7	3132.8	2758.7	2385.1	2011.0	1636.8	1415.8	1194.7	973.1	752.0
30°	4174.5	3923.1	3671.2	3177.0	2683.2	2189.0	1694.8	1414.7	1134.6	854.0	574.0
32.5°	4638.4	4270.7	3902.4	3366.1	2829.9	2293.7	1757.5	1428.5	1099.0	770.1	440.6
35°	5159.8	4759.6	4359.4	3680.2	3001.0	2321.3	1642.2	1323.3	1004.4	685.6	366.7
37.5°	6080.7	5411.1	4741.5	3949.7	3157.3	2365.4	1573.1	1254.7	935.9	617.5	298.7
40°	6603.7	5964.4	5325.0	4335.5	3345.9	2356.4	1366.9	1084.1	801.9	519.2	236.5
42.5°	7283.9	6472.9	5661.4	4555.5	3449.6	2343.7	1237.7	976.3	714.8	452.8	191.3
45°	7687.3	6768.4	5849.6	4651.2	3452.8	2254.4	1056.0	829.6	603.2	376.8	150.4
47.5°	7941.8	7020.3	6098.8	4812.2	3526.1	2239.5	952.9	744.5	536.2	327.9	119.6
50°	8071.0	7146.8	6222.1	4899.9	3577.7	2254.9	932.7	725.4	517.6	310.4	102.6
52.5°	8205.4	7314.2	6422.5	5051.9	3681.3	2310.7	940.1	728.6	517.6	306.1	94.6
55°	8477.0	7598.0	6718.5	5269.8	3821.1	2372.4	923.6	715.3	507.0	298.1	89.8
57.5°	8810.8	7871.2	6931.0	5429.2	3927.3	2425.5	923.6	714.3	504.9	294.9	85.6
60°	8747.5	7727.7	6707.3	5250.1	3792.9	2335.1	877.9	678.6	479.9	280.6	81.3
62.5°	8313.3	7206.3	6098.8	4752.1	3404.9	2058.3	711.1	552.2	393.3	233.8	74.9
65°	7803.1	6628.1	5452.6	4213.3	2973.4	1734.1	494.2	388.0	281.1	174.8	68.0
67.5°	7188.8	5935.7	4682.5	3580.3	2478.6	1376.4	274.2	221.1	167.9	114.3	61.1
70°	6122.7	4829.2	3535.1	2688.0	1841.4	994.3	147.2	124.4	101.5	78.7	55.8
72.5°	4596.4	3411.3	2226.2	1691.0	1156.4	621.3	86.1	77.6	68.6	60.1	51.0
75°	3127.5	2239.5	1351.5	1028.9	706.8	384.2	61.6	57.4	52.6	48.4	43.6
77.5°	2126.3	1538.0	949.7	724.9	500.1	275.3	50.5	47.8	45.2	42.0	39.3
80°	1327.5	908.8	490.0	377.3	264.1	151.5	38.3	36.7	35.1	32.9	31.4
82.5°	928.4	555.4	182.3	142.4	102.6	62.2	22.3	22.9	23.4	23.4	23.9
85°	389.5	210.5	31.4	26.6	21.8	17.0	12.2	13.3	14.9	15.9	17.0
87.5°	6.9	3.7	0.0	1.1	2.7	3.7	4.8	6.4	7.4	9.0	10.1
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°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1272.3	1280.2	1287.7	1295.7	1289.3	1283.4	1277.1	1270.7	1261.1	1252.1	1242.5
5°	1548.1	1521.5	1494.9	1468.4	1428.0	1387.6	1346.7	1306.3	1301.5	1296.7	1291.4
7.5°	1454.0	1391.8	1329.1	1267.0	1208.5	1150.0	1091.6	1033.1	1015.1	997.5	979.4
10°	1301.0	1253.1	1204.8	1156.9	1115.0	1072.4	1030.5	987.9	943.8	899.7	855.1
12.5°	1265.9	1215.9	1165.4	1115.5	1077.2	1039.0	1000.7	962.4	913.0	863.6	814.2
15°	1192.6	1138.3	1084.1	1029.9	978.9	927.9	876.3	825.3	765.8	706.3	646.8
17.5°	1102.7	1039.0	974.7	910.4	843.4	776.4	709.5	642.5	574.0	505.9	437.4
20°	995.9	908.8	821.1	733.9	651.0	568.1	484.7	401.8	358.7	316.2	273.2
22.5°	865.7	752.5	639.9	526.7	458.6	390.1	322.1	253.5	234.9	216.3	197.7
25°	750.9	622.8	494.8	366.7	323.6	280.6	237.6	194.5	186.0	177.0	168.5
27.5°	631.4	511.2	390.6	270.0	245.5	220.5	196.1	171.1	165.3	160.0	154.1
30°	484.1	394.3	304.0	214.2	198.2	182.3	165.8	149.9	147.2	144.0	141.4
32.5°	375.2	309.3	243.9	178.0	169.0	160.0	150.9	141.9	137.6	133.4	128.6
35°	313.5	260.9	207.8	154.6	148.3	141.4	135.0	128.1	123.8	119.0	114.8
37.5°	259.9	221.6	182.8	144.0	137.1	130.2	122.8	115.9	112.7	109.5	106.3
40°	214.2	191.9	169.5	147.2	137.1	127.0	116.9	106.8	104.2	101.5	98.8
42.5°	177.0	162.6	147.7	133.4	126.0	119.0	111.6	104.2	100.4	96.2	92.5
45°	143.0	135.0	127.5	119.6	120.1	120.6	120.6	121.2	111.6	101.5	91.9
47.5°	115.9	112.1	107.9	104.2	108.4	112.7	116.4	120.6	110.5	100.4	89.8
50°	99.4	96.7	93.5	90.3	94.6	99.4	103.6	107.9	103.6	99.9	95.7
52.5°	90.9	87.2	83.4	79.7	81.3	83.4	85.0	86.6	86.6	86.6	86.6
55°	85.6	81.8	77.6	73.3	71.7	69.6	68.0	65.9	63.2	61.1	58.5
57.5°	81.3	77.1	72.3	68.0	65.4	62.2	59.5	56.3	53.7	50.5	47.8
60°	77.1	72.8	68.0	63.8	61.1	58.5	55.3	52.6	49.4	46.8	43.6
62.5°	71.2	67.5	63.8	60.1	57.4	55.3	52.6	50.0	46.8	43.6	39.9
65°	64.8	62.2	59.0	55.8	53.1	50.5	47.8	45.2	42.0	39.3	36.1
67.5°	59.0	56.3	54.2	51.5	48.4	45.7	42.5	39.3	37.2	35.1	32.4
70°	54.2	52.1	50.5	48.4	45.2	42.5	39.3	36.1	34.5	32.4	30.8
72.5°	49.4	47.8	45.7	44.1	41.5	38.8	36.1	33.5	31.9	30.3	28.7
75°	42.5	41.5	40.4	39.3	36.7	34.0	30.8	28.2	27.6	27.1	26.6
77.5°	38.3	37.7	36.7	35.6	32.9	30.3	27.6	25.0	25.5	26.0	26.0
80°	31.4	31.4	30.8	30.8	28.7	26.6	23.9	21.8	22.9	24.4	25.5
82.5°	23.9	23.9	23.9	23.9	21.8	19.7	17.5	15.4	17.0	18.1	19.7
85°	16.5	15.9	15.4	14.9	13.3	12.2	10.6	9.0	11.2	12.8	14.9
87.5°	10.1	10.6	10.6	10.6	9.6	8.0	6.9	5.3	6.4	6.9	8.0
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



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 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1232.9	1217.0	1201.1	1184.6	1168.6	1131.4	1094.2	1057.0	1019.8	1047.5	1074.6
5°	1286.6	1255.8	1224.4	1193.6	1162.3	1148.4	1135.2	1121.3	1107.5	1109.6	1112.3
7.5°	961.4	941.2	921.0	900.3	880.1	875.8	872.1	867.8	863.6	872.6	881.1
10°	811.0	782.8	754.1	725.9	697.2	681.8	666.4	651.0	635.6	634.0	631.9
12.5°	764.7	721.7	679.2	636.1	593.1	559.6	526.1	492.6	459.2	461.8	464.5
15°	587.2	544.2	501.7	458.6	415.6	388.5	360.8	333.7	306.1	298.1	290.2
17.5°	368.8	336.9	305.0	272.6	240.7	231.7	223.2	214.2	205.1	202.5	199.8
20°	230.1	216.3	202.5	188.1	174.3	172.2	170.1	167.9	165.8	167.4	169.0
22.5°	179.1	173.2	166.9	161.0	154.6	152.5	150.4	148.3	146.1	147.7	148.8
25°	159.4	155.2	150.9	146.7	142.4	140.3	137.6	135.5	132.9	133.9	135.5
27.5°	148.3	144.6	140.8	137.1	133.4	129.7	126.5	122.8	119.0	121.2	122.8
30°	138.2	133.9	130.2	126.0	121.7	118.0	114.3	110.0	106.3	108.4	110.5
32.5°	124.4	120.6	116.4	112.7	108.4	106.3	104.2	101.5	99.4	101.0	102.0
35°	110.0	106.8	104.2	101.0	97.8	95.7	94.1	91.9	89.8	90.3	91.4
37.5°	103.1	99.4	95.7	91.9	88.2	87.2	86.1	84.5	83.4	83.4	83.4
40°	96.2	92.5	88.8	84.5	80.8	79.2	77.6	76.0	74.4	74.4	74.4
42.5°	88.2	84.5	80.8	77.1	73.3	71.7	69.6	68.0	65.9	65.9	65.9
45°	81.8	78.1	74.9	71.2	67.5	64.8	62.2	59.0	56.3	55.8	55.3
47.5°	79.7	74.4	69.1	63.8	58.5	55.8	53.1	50.0	47.3	46.8	46.2
50°	91.4	80.8	70.2	59.5	48.9	46.8	44.6	42.5	40.4	39.3	38.8
52.5°	86.6	75.5	64.3	53.1	42.0	40.4	38.8	37.2	35.6	34.5	33.5
55°	55.8	51.0	46.8	42.0	37.2	36.1	35.1	33.5	32.4	31.4	30.3
57.5°	44.6	42.0	39.9	37.2	34.5	33.5	32.4	30.8	29.8	28.2	27.1
60°	40.4	38.3	36.1	34.0	31.9	30.8	29.8	28.7	27.6	26.0	25.0
62.5°	36.7	35.1	33.5	31.9	30.3	29.2	28.2	27.1	26.0	24.4	22.9
65°	32.9	31.9	30.8	29.8	28.7	27.6	26.6	25.0	23.9	22.3	20.7
67.5°	30.3	29.8	29.2	28.7	28.2	27.1	25.5	24.4	22.9	21.3	19.1
70°	28.7	28.7	28.7	28.2	28.2	27.1	25.5	24.4	22.9	20.7	19.1
72.5°	27.1	27.6	28.2	28.2	28.7	27.1	25.5	23.9	22.3	20.2	18.6
75°	26.0	26.6	27.1	27.1	27.6	26.6	25.5	23.9	22.9	20.7	18.6
77.5°	26.6	27.1	27.1	27.6	27.6	26.6	25.5	23.9	22.9	20.2	17.5
80°	26.6	26.0	25.5	24.4	23.9	21.8	19.7	17.0	14.9	11.7	9.0
82.5°	20.7	19.7	19.1	18.1	17.0	14.9	12.8	10.6	8.5	6.4	4.3
85°	16.5	15.4	14.9	13.8	12.8	11.2	9.0	7.4	5.3	4.3	2.7
87.5°	8.5	8.0	6.9	6.4	5.3	4.3	2.7	1.6	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
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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1102.2	1129.3	1125.6	1121.9	1139.4	1156.9	1144.2	1132.0	1119.2	1106.5	1079.9
5°	1114.4	1116.6	1112.8	1108.6	1109.1	1109.6	1101.1	1092.6	1084.1	1075.6	1074.0
7.5°	890.2	898.7	910.4	921.5	922.0	922.0	915.7	909.3	902.4	896.0	899.2
10°	630.3	628.2	631.4	634.5	634.0	632.9	650.0	667.0	683.4	700.4	688.2
12.5°	466.6	469.3	456.0	442.7	447.5	451.7	454.4	457.0	459.7	462.4	469.8
15°	282.2	274.2	264.7	255.1	259.9	264.1	268.9	273.2	277.9	282.2	287.0
17.5°	196.6	194.0	189.7	184.9	185.5	186.0	186.5	187.1	187.1	187.6	188.7
20°	170.6	172.2	169.0	165.3	164.2	162.6	161.6	160.5	158.9	157.8	156.2
22.5°	150.4	151.5	152.0	152.0	149.9	147.2	145.1	143.5	141.4	139.2	138.2
25°	136.6	137.6	136.6	135.0	133.9	132.9	131.8	130.2	129.1	127.5	127.0
27.5°	124.9	126.5	126.5	126.0	124.9	123.3	120.6	118.5	115.9	113.2	113.7
30°	112.7	114.8	114.8	114.3	113.7	113.2	110.5	107.9	105.2	102.6	103.6
32.5°	103.6	104.7	104.2	103.6	103.6	103.1	101.0	99.4	97.3	95.1	95.1
35°	91.9	92.5	92.5	92.5	92.5	91.9	90.3	88.8	87.2	85.6	86.1
37.5°	83.4	83.4	85.0	86.1	85.0	84.0	82.9	81.3	80.2	78.7	78.7
40°	73.9	73.9	75.5	76.5	75.5	74.4	73.9	72.8	72.3	71.2	71.2
42.5°	65.4	65.4	67.0	68.0	68.0	67.5	66.4	65.4	64.3	63.2	63.8
45°	54.7	54.2	56.9	59.0	57.9	56.9	56.9	56.3	56.3	55.8	56.3
47.5°	45.2	44.6	46.8	48.9	48.4	47.3	47.3	47.3	47.3	47.3	47.8
50°	37.7	36.7	38.8	40.4	39.9	38.8	38.8	39.3	39.3	39.3	39.9
52.5°	32.4	31.4	32.9	34.0	33.5	32.9	32.9	33.5	33.5	33.5	34.0
55°	28.7	27.6	29.2	30.3	29.8	28.7	29.2	29.2	29.8	29.8	29.8
57.5°	25.5	23.9	25.0	26.0	26.0	25.5	26.0	26.0	26.6	26.6	26.6
60°	23.4	21.8	22.9	23.4	23.4	22.9	23.4	23.4	23.9	23.9	23.9
62.5°	20.7	19.1	20.2	20.7	20.7	20.2	20.7	20.7	21.3	21.3	21.3
65°	18.6	17.0	17.5	18.1	18.1	18.1	18.6	18.6	19.1	19.1	19.1
67.5°	17.5	15.4	15.9	16.5	16.5	16.5	17.0	17.0	17.5	17.5	18.1
70°	17.0	14.9	15.4	15.4	15.9	15.9	15.9	16.5	16.5	16.5	16.5
72.5°	16.5	14.3	14.3	14.3	14.9	14.9	14.9	15.4	15.4	15.4	15.4
75°	16.5	14.3	13.8	13.3	13.8	13.8	13.8	14.3	14.3	14.3	14.3
77.5°	14.3	11.7	10.6	9.0	10.6	11.7	12.2	12.2	12.8	12.8	12.8
80°	5.8	2.7	1.6	0.0	0.5	1.1	1.6	2.1	2.7	3.2	3.7
82.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	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
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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1053.3	1026.7	1000.2	1012.9	1025.7	1038.4	1051.2	1050.1	1048.5	1047.5	1045.9
5°	1073.0	1071.4	1069.8	1062.3	1055.4	1048.0	1040.6	1039.0	1036.8	1035.2	1033.1
7.5°	902.4	905.0	908.2	899.7	891.2	882.7	874.2	852.4	830.6	808.3	786.5
10°	676.0	663.2	651.0	650.0	648.9	647.8	646.8	644.6	642.5	639.9	637.7
12.5°	477.8	485.2	492.6	490.0	487.3	484.1	481.5	485.2	489.5	493.2	496.9
15°	291.2	296.0	300.3	309.8	319.4	329.0	338.5	342.2	346.5	350.2	353.9
17.5°	189.7	190.3	191.3	201.9	212.0	222.7	232.8	239.7	246.6	253.0	259.9
20°	154.6	153.1	151.5	157.3	163.2	169.0	174.8	181.2	187.6	194.0	200.4
22.5°	137.6	136.6	135.5	137.6	139.8	141.4	143.5	148.3	153.6	158.4	163.2
25°	126.5	125.4	124.9	126.0	127.0	128.1	129.1	131.8	134.5	137.1	139.8
27.5°	113.7	114.3	114.3	115.3	115.9	116.9	117.4	118.5	120.1	121.2	122.2
30°	104.2	105.2	105.8	106.8	107.4	108.4	108.9	108.4	107.9	107.4	106.8
32.5°	95.1	94.6	94.6	95.7	96.2	97.3	97.8	98.8	99.9	100.4	101.5
35°	86.1	86.6	86.6	86.6	87.2	87.2	87.2	88.2	89.8	90.9	91.9
37.5°	78.1	78.1	77.6	79.2	80.2	81.8	82.9	84.0	85.6	86.6	87.7
40°	71.2	71.2	71.2	72.3	73.3	73.9	74.9	77.6	80.2	82.9	85.6
42.5°	63.8	64.3	64.3	65.4	66.4	67.0	68.0	70.2	71.7	73.9	75.5
45°	56.9	57.4	57.9	59.0	59.5	60.6	61.1	62.2	62.7	63.8	64.3
47.5°	48.9	49.4	50.0	51.0	51.5	52.6	53.1	52.6	52.6	52.1	51.5
50°	40.9	41.5	42.0	43.6	44.6	46.2	47.3	46.2	45.2	43.6	42.5
52.5°	34.5	34.5	35.1	36.1	37.2	37.7	38.8	38.3	37.7	37.2	36.7
55°	29.8	29.8	29.8	30.3	30.8	31.4	31.9	32.4	32.4	32.9	32.9
57.5°	26.6	26.0	26.0	26.6	27.1	27.1	27.6	28.2	28.2	28.7	28.7
60°	23.9	23.4	23.4	23.9	24.4	25.0	25.5	25.5	25.5	25.0	25.0
62.5°	21.3	21.3	21.3	21.8	21.8	22.3	22.3	22.3	22.9	22.9	22.9
65°	19.7	19.7	19.7	19.7	19.7	19.1	19.1	19.7	19.7	20.2	20.2
67.5°	18.1	18.6	18.6	18.1	17.5	17.0	16.5	17.0	17.0	17.5	17.5
70°	16.5	16.5	16.5	15.9	15.4	14.9	14.3	14.3	14.3	13.8	13.8
72.5°	15.4	14.9	14.9	14.3	13.3	12.8	11.7	11.2	11.2	10.6	10.1
75°	14.3	13.8	13.8	12.8	11.7	10.6	9.6	9.0	8.0	7.4	6.4
77.5°	12.8	12.8	12.8	11.2	10.1	8.5	6.9	5.8	4.8	3.2	2.1
80°	4.3	4.8	5.3	4.8	4.8	4.3	3.7	2.7	2.1	1.1	0.0
82.5°	0.5	0.5	0.5	0.5	0.5	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
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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1051.7	1057.6	1063.4	1069.3	1069.8	1070.3	1070.9	1071.4	1058.1	1044.3	1031.0
5°	1043.7	1054.9	1065.5	1076.2	1070.3	1064.5	1058.6	1052.8	1052.3	1052.3	1051.7
7.5°	788.1	789.2	790.8	791.8	794.0	796.1	797.7	799.8	808.3	816.8	824.8
10°	630.8	623.9	616.5	609.6	604.2	598.4	593.1	587.2	591.5	596.3	600.5
12.5°	491.1	485.2	478.8	473.0	470.9	468.7	466.1	463.9	477.8	491.6	504.9
15°	352.9	351.8	350.2	349.2	356.1	363.0	369.9	376.8	388.5	399.6	411.3
17.5°	262.5	265.2	267.8	270.5	274.8	279.0	282.7	287.0	295.5	304.5	313.0
20°	203.5	207.3	210.5	213.6	212.6	211.5	209.9	208.9	215.8	222.7	229.1
22.5°	166.3	169.0	172.2	174.8	175.4	175.9	176.4	177.0	181.2	184.9	189.2
25°	142.4	145.6	148.3	150.9	151.5	152.0	152.5	153.1	158.4	163.7	168.5
27.5°	126.0	129.1	132.9	136.0	137.1	138.2	139.2	140.3	143.5	146.1	149.3
30°	111.1	115.3	119.6	123.8	125.4	127.0	128.6	130.2	133.4	137.1	140.3
32.5°	103.6	106.3	108.4	110.5	114.3	117.4	121.2	124.4	128.1	132.3	136.0
35°	95.1	97.8	101.0	103.6	106.3	108.9	111.1	113.7	115.9	118.0	119.6
37.5°	89.8	92.5	94.6	96.7	97.8	98.8	99.4	100.4	101.5	102.6	103.1
40°	85.6	85.0	85.0	84.5	85.6	87.2	88.2	89.3	92.5	95.1	98.3
42.5°	74.4	72.8	71.7	70.2	72.8	74.9	77.6	79.7	84.0	88.2	92.5
45°	63.2	62.2	60.6	59.5	63.2	67.0	70.7	74.4	79.2	83.4	88.2
47.5°	52.1	52.6	52.6	53.1	56.9	60.6	63.8	67.5	72.3	77.1	81.8
50°	43.6	44.6	45.7	46.8	50.5	53.7	57.4	60.6	65.9	70.7	76.0
52.5°	38.3	39.9	40.9	42.5	45.7	49.4	52.6	55.8	60.6	65.4	70.2
55°	34.5	36.7	38.3	39.9	42.5	45.2	47.8	50.5	55.3	60.1	64.3
57.5°	30.3	31.9	33.5	35.1	37.7	40.4	42.5	45.2	49.4	54.2	58.5
60°	26.6	27.6	29.2	30.3	32.4	35.1	37.2	39.3	43.6	47.8	51.5
62.5°	23.4	24.4	25.0	25.5	27.6	29.8	31.9	34.0	37.7	42.0	45.7
65°	20.7	21.3	21.3	21.8	23.4	25.5	27.1	28.7	32.9	36.7	40.9
67.5°	17.5	18.1	18.1	18.1	19.7	21.3	22.9	24.4	28.2	32.4	36.1
70°	13.8	14.3	14.3	14.3	15.9	18.1	19.7	21.3	24.4	27.6	30.8
72.5°	10.6	10.6	11.2	11.2	12.8	14.9	16.5	18.1	20.7	23.4	26.0
75°	6.9	7.4	7.4	8.0	9.6	11.7	13.3	14.9	17.5	20.2	22.3
77.5°	2.7	3.7	4.3	4.8	6.4	8.0	9.6	11.2	13.3	15.9	18.1
80°	0.0	0.5	0.5	0.5	1.6	2.1	3.2	3.7	5.3	7.4	9.0
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
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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1017.2	1046.4	1075.6	1104.9	1134.1	1170.2	1206.4	1211.7	1217.0	1210.6	1204.8
5°	1051.2	1065.5	1079.4	1093.7	1107.5	1149.0	1189.9	1190.4	1190.4	1191.0	1191.0
7.5°	833.3	845.5	857.7	869.4	881.7	908.8	935.9	946.0	955.5	953.4	951.3
10°	604.8	620.7	636.1	652.1	667.5	692.5	717.4	727.0	736.0	765.3	795.0
12.5°	518.7	534.1	549.5	564.4	579.8	605.3	630.8	649.4	667.5	685.6	703.6
15°	422.5	434.7	447.5	459.7	471.9	483.6	495.3	518.2	540.5	558.5	576.6
17.5°	321.5	326.8	331.6	336.9	341.7	347.0	352.3	361.9	370.9	386.9	402.3
20°	236.0	240.2	244.5	248.2	252.4	257.7	263.1	270.0	276.3	280.1	283.3
22.5°	192.9	199.3	205.7	211.5	217.9	221.6	225.3	227.5	229.6	231.2	232.8
25°	173.8	179.6	184.9	190.8	196.1	197.7	199.3	203.5	207.8	207.8	207.8
27.5°	152.0	160.0	168.5	176.4	184.4	186.5	188.1	189.7	190.8	188.7	186.0
30°	143.5	151.5	159.4	166.9	174.8	178.0	180.7	182.3	183.9	181.2	178.6
32.5°	139.8	147.2	154.1	161.6	168.5	172.7	176.4	180.7	184.4	184.9	186.0
35°	121.7	126.5	131.8	136.6	141.4	143.5	145.6	147.2	148.3	148.3	148.3
37.5°	104.2	110.5	117.4	123.8	130.2	135.0	139.8	140.3	140.3	141.4	143.0
40°	101.0	107.4	113.7	119.6	126.0	131.3	136.0	136.6	137.1	138.2	139.2
42.5°	96.7	103.6	110.5	117.4	124.4	129.7	134.5	134.5	133.9	135.5	136.6
45°	92.5	99.4	105.8	112.7	119.0	126.0	132.3	130.7	128.6	131.3	133.4
47.5°	86.6	94.1	101.5	108.4	115.9	122.2	128.1	127.0	125.4	128.1	130.7
50°	80.8	88.2	95.7	103.1	110.5	117.4	123.8	122.8	121.7	124.9	127.5
52.5°	74.9	82.4	90.3	97.8	105.2	111.1	116.4	115.9	115.3	118.5	122.2
55°	69.1	76.0	83.4	90.3	97.3	103.6	109.5	108.4	107.4	110.0	112.7
57.5°	62.7	69.6	76.0	82.9	89.3	94.6	99.4	97.8	96.2	99.4	102.6
60°	55.8	62.2	68.6	74.4	80.8	85.0	88.8	87.7	86.1	89.3	92.5
62.5°	49.4	55.3	61.1	66.4	72.3	75.5	78.7	77.6	76.5	79.7	83.4
65°	44.6	49.4	53.7	58.5	62.7	65.9	69.1	67.5	65.9	69.6	72.8
67.5°	39.9	43.6	47.8	51.5	55.3	57.9	60.6	59.5	57.9	60.6	63.2
70°	34.0	37.7	41.5	44.6	48.4	51.0	53.7	52.1	50.0	52.6	55.3
72.5°	28.7	31.9	35.1	37.7	40.9	43.0	45.2	43.6	42.0	44.1	46.2
75°	25.0	27.6	30.3	32.4	35.1	36.1	37.2	36.7	35.6	37.7	39.3
77.5°	20.2	22.3	25.0	27.1	29.2	29.2	29.2	29.8	29.8	31.9	34.5
80°	10.6	12.8	14.9	16.5	18.6	18.6	18.1	19.1	19.7	22.3	25.0
82.5°	0.0	1.6	3.2	4.8	6.4	5.8	4.8	5.3	5.3	6.4	7.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1
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
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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1198.4	1192.0	1187.8	1184.0	1179.8	1175.5	1180.9	1186.2	1191.0	1196.3	1212.2
5°	1191.5	1191.5	1187.8	1184.0	1180.3	1176.6	1184.6	1192.0	1200.0	1207.4	1206.9
7.5°	948.6	946.5	968.8	990.6	1012.9	1034.7	1040.6	1046.4	1051.7	1057.6	1056.0
10°	824.3	853.5	863.1	872.6	882.2	891.8	903.4	915.1	926.8	938.5	942.8
12.5°	721.7	739.8	770.6	800.9	831.7	862.0	877.4	893.4	908.8	924.2	954.5
15°	594.7	612.8	639.3	665.9	692.5	719.0	743.5	768.5	792.9	817.4	854.0
17.5°	418.2	433.7	453.9	474.0	493.7	513.9	551.6	589.4	627.1	664.8	703.6
20°	287.0	290.2	299.7	309.8	319.4	329.0	363.0	397.5	431.5	465.5	516.6
22.5°	233.8	235.4	240.2	245.0	249.2	254.0	271.6	289.6	307.2	324.7	366.2
25°	207.3	207.3	210.5	213.6	216.8	220.0	229.6	239.1	248.2	257.7	284.3
27.5°	183.9	181.2	186.0	190.8	195.6	200.4	207.3	214.7	221.6	228.5	246.6
30°	175.9	173.2	179.1	184.9	190.8	196.6	203.5	210.5	216.8	223.7	236.0
32.5°	186.5	187.1	189.2	191.3	192.9	195.0	198.2	201.9	205.1	208.3	219.0
35°	148.3	148.3	152.0	155.7	158.9	162.6	168.5	174.3	180.2	186.0	197.2
37.5°	144.0	145.1	148.3	152.0	155.2	158.4	165.8	173.8	181.2	188.7	197.7
40°	139.8	140.8	145.1	149.3	153.6	157.8	165.3	172.2	179.6	186.5	195.0
42.5°	138.2	139.2	144.6	150.4	155.7	161.0	167.4	173.8	179.6	186.0	197.7
45°	136.0	138.2	144.6	151.5	157.8	164.2	170.1	175.9	181.8	187.6	201.9
47.5°	132.9	135.5	143.0	149.9	157.3	164.2	175.4	187.1	198.2	209.4	216.3
50°	130.7	133.4	141.4	149.3	157.3	165.3	183.3	201.4	219.0	237.0	233.3
52.5°	125.4	128.6	138.7	148.8	158.9	169.0	184.9	200.9	216.8	232.8	225.3
55°	115.3	118.0	129.7	141.4	152.5	164.2	175.9	187.6	198.8	210.5	201.9
57.5°	105.2	108.4	119.6	130.7	141.4	152.5	158.4	164.2	170.1	175.9	172.7
60°	95.7	98.8	113.7	128.6	143.5	158.4	153.1	147.7	141.9	136.6	140.3
62.5°	86.6	89.8	104.2	118.0	132.3	146.1	138.7	131.3	123.8	116.4	122.2
65°	76.5	79.7	85.0	90.9	96.2	101.5	101.0	99.9	99.4	98.3	104.7
67.5°	65.9	68.6	71.2	74.4	77.1	79.7	81.3	83.4	85.0	86.6	91.9
70°	57.4	60.1	63.2	65.9	69.1	71.7	72.8	73.9	74.4	75.5	80.2
72.5°	47.8	50.0	54.2	58.5	62.2	66.4	67.0	67.0	67.5	67.5	71.2
75°	41.5	43.0	46.2	49.4	52.1	55.3	56.9	58.5	59.5	61.1	63.2
77.5°	36.7	38.8	39.9	40.4	41.5	42.0	43.0	44.1	45.2	46.2	46.8
80°	27.1	29.8	30.8	31.4	32.4	32.9	32.9	32.4	32.4	31.9	32.4
82.5°	8.5	9.6	11.2	12.8	14.3	15.9	16.5	17.0	17.0	17.5	17.0
85°	1.6	2.1	3.2	4.3	4.8	5.8	5.3	4.3	3.7	2.7	2.1
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
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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1228.2	1243.6	1259.5	1253.1	1246.8	1240.4	1234.0	1235.1	1236.7	1237.7	1238.8
5°	1206.4	1205.3	1204.8	1222.8	1241.4	1259.5	1277.6	1297.2	1317.4	1337.1	1356.8
7.5°	1054.4	1052.3	1050.7	1074.0	1097.4	1120.8	1144.2	1171.3	1198.9	1226.0	1253.1
10°	947.0	951.3	955.5	965.1	975.2	984.8	994.3	1020.4	1046.4	1071.9	1098.0
12.5°	984.8	1014.5	1044.8	1050.7	1056.0	1061.8	1067.1	1070.9	1074.6	1078.3	1082.0
15°	891.2	927.9	964.6	980.0	994.9	1010.3	1025.1	1064.5	1103.3	1142.6	1181.4
17.5°	742.4	780.7	819.5	865.7	912.0	958.2	1004.4	1046.9	1089.5	1132.0	1174.5
20°	568.1	619.1	670.1	728.6	787.6	846.1	904.5	947.0	989.0	1031.5	1073.5
22.5°	408.1	449.6	491.1	561.7	631.9	702.6	772.7	846.6	921.0	994.9	1068.7
25°	310.9	336.9	363.5	433.1	502.7	571.8	641.4	743.0	844.5	946.0	1047.5
27.5°	264.1	282.2	299.7	362.4	425.2	487.3	550.0	670.7	791.3	912.0	1032.6
30°	248.7	260.9	273.2	326.3	380.0	433.1	486.3	608.5	730.7	853.0	975.2
32.5°	229.6	239.7	250.3	297.1	343.8	390.1	436.8	556.4	676.0	795.0	914.6
35°	207.8	219.0	229.6	276.3	323.1	369.4	416.1	539.9	663.8	787.6	911.4
37.5°	206.2	215.2	223.7	277.9	332.7	386.9	441.1	564.9	688.7	812.0	935.9
40°	204.1	212.6	221.1	276.3	331.1	386.4	441.1	570.8	700.4	830.1	959.8
42.5°	209.4	220.5	232.2	281.1	330.0	378.4	427.3	563.9	700.4	836.5	973.1
45°	216.8	231.2	245.5	290.2	334.8	379.4	424.1	572.4	720.6	868.4	1016.6
47.5°	223.7	230.6	237.6	280.1	322.1	364.6	406.6	558.0	709.5	860.9	1012.4
50°	230.1	226.4	222.7	269.4	316.2	362.4	409.2	553.8	697.8	842.3	986.4
52.5°	217.4	209.9	201.9	251.9	301.9	351.3	401.2	546.9	692.5	838.1	983.7
55°	193.4	184.9	176.4	225.9	274.8	324.2	373.1	518.2	663.2	808.3	953.4
57.5°	169.0	165.8	162.1	199.8	237.6	274.8	312.5	473.5	635.1	796.1	957.1
60°	144.0	147.2	150.9	178.0	205.1	231.7	258.8	416.6	574.0	731.8	889.1
62.5°	127.5	133.4	138.7	161.6	184.9	207.8	230.6	379.4	528.3	677.1	825.9
65°	111.6	118.0	124.4	151.5	179.1	206.2	233.3	359.3	485.2	611.2	737.1
67.5°	97.3	102.0	107.4	143.0	178.6	214.2	249.8	352.9	455.4	558.5	661.1
70°	85.0	89.3	94.1	135.5	177.0	218.4	259.9	347.6	435.8	523.5	611.2
72.5°	74.9	78.7	82.4	124.4	166.3	208.3	250.3	328.4	406.0	484.1	561.7
75°	65.4	67.0	69.1	104.7	139.8	175.4	210.5	262.5	315.1	367.2	419.3
77.5°	47.3	47.3	47.8	58.5	68.6	79.2	89.3	121.7	154.1	186.0	218.4
80°	32.4	32.9	32.9	37.2	40.9	45.2	48.9	55.8	62.2	69.1	75.5
82.5°	16.5	15.4	14.9	19.1	23.4	27.6	31.9	33.5	34.5	36.1	37.2
85°	1.6	0.5	0.0	2.7	5.3	8.0	10.6	12.8	14.9	17.0	19.1
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
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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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: P597103

CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1234.5	1230.3	1226.0	1221.8	1247.8	1274.4	1300.4	1326.5	1400.3	1448.7	1443.4
5°	1375.9	1395.0	1414.2	1433.3	1464.1	1495.5	1526.3	1557.1	1666.6	1733.6	1743.1
7.5°	1282.9	1312.1	1341.9	1371.1	1430.6	1489.6	1549.1	1608.1	1698.0	1767.6	1806.9
10°	1131.4	1164.9	1197.9	1231.3	1298.3	1365.8	1432.8	1499.7	1600.7	1696.9	1746.3
12.5°	1134.6	1187.2	1239.9	1292.5	1350.9	1409.4	1467.3	1525.8	1587.4	1619.8	1689.4
15°	1222.8	1264.3	1305.7	1347.2	1423.7	1500.3	1576.3	1652.8	1689.4	1767.6	1848.9
17.5°	1255.3	1336.6	1417.4	1498.1	1593.8	1688.9	1784.6	1879.7	1948.8	2057.2	2141.2
20°	1195.2	1316.9	1438.1	1559.8	1691.0	1822.3	1953.6	2084.8	2160.3	2263.4	2393.1
22.5°	1197.9	1327.0	1455.6	1584.8	1766.0	1946.7	2127.9	2308.6	2511.1	2709.8	2773.1
25°	1216.5	1385.5	1553.9	1722.9	1932.3	2141.7	2351.1	2560.5	2804.9	3013.8	3097.8
27.5°	1222.8	1413.1	1602.8	1793.1	2090.7	2388.3	2685.9	2983.5	3275.3	3511.2	3601.0
30°	1207.4	1440.2	1672.4	1904.7	2269.8	2634.9	3000.0	3365.1	3642.0	3916.7	4028.3
32.5°	1211.2	1507.7	1804.2	2100.8	2530.7	2961.2	3391.1	3821.1	3998.0	4245.7	4442.3
35°	1236.7	1561.9	1886.6	2211.9	2687.5	3163.1	3638.8	4114.4	4404.6	4666.0	4832.9
37.5°	1296.2	1656.5	2016.3	2376.6	2961.2	3546.3	4130.9	4715.5	5164.5	5613.6	5690.1
40°	1340.3	1720.8	2101.3	2481.8	3160.5	3839.1	4517.8	5196.4	5704.5	6191.8	6243.9
42.5°	1390.2	1806.9	2224.1	2640.7	3399.6	4158.5	4917.4	5676.3	6264.6	6761.5	6796.1
45°	1445.0	1873.9	2302.2	2730.5	3525.6	4320.1	5115.1	5909.6	6596.8	7173.9	7043.7
47.5°	1471.0	1929.7	2388.3	2846.9	3699.4	4551.3	5403.7	6255.6	6872.1	7381.2	7229.2
50°	1491.2	1995.6	2500.4	3004.8	3898.6	4792.5	5686.4	6580.3	7198.4	7668.2	7430.1
52.5°	1548.1	2111.9	2676.3	3240.2	4190.9	5141.2	6091.9	7042.1	7640.0	8071.5	7737.8
55°	1603.4	2252.8	2902.7	3552.1	4574.6	5597.7	6620.2	7642.6	8237.9	8607.7	8154.4
57.5°	1673.0	2389.4	3105.2	3821.1	4914.8	6008.5	7101.6	8195.3	8777.3	9185.9	8715.1
60°	1654.9	2420.2	3186.0	3951.3	5065.2	6179.1	7293.0	8406.9	9098.3	9600.5	9281.1
62.5°	1584.8	2343.7	3102.0	3860.9	4955.2	6048.9	7143.1	8236.8	9065.3	9745.6	9638.2
65°	1442.9	2148.1	2853.8	3559.1	4603.9	5649.2	6694.0	7738.8	8761.3	9627.0	9665.3
67.5°	1256.3	1851.5	2446.2	3041.4	4016.1	4990.8	5964.9	6939.5	8146.5	9156.2	9269.9
70°	1058.6	1505.6	1953.0	2400.0	3257.7	4115.5	4972.7	5830.4	7085.2	8101.3	8316.0
72.5°	848.7	1136.2	1423.2	1710.2	2329.3	2947.9	3567.0	4185.6	5289.4	6078.1	6452.8
75°	550.0	680.8	811.5	942.2	1354.6	1766.5	2178.9	2590.8	3323.6	3904.5	4328.1
77.5°	245.0	271.6	297.6	324.2	642.5	960.8	1279.2	1597.5	1915.8	2266.6	2366.0
80°	87.7	99.4	111.6	123.3	279.5	436.3	592.6	748.8	902.9	1084.1	1128.2
82.5°	36.7	36.7	36.1	35.6	91.4	147.2	203.0	258.8	299.2	343.8	352.3
85°	14.9	11.2	6.9	2.7	11.7	21.3	30.3	39.3	63.2	57.4	106.3
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
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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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: P597103

CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1423.2	1422.1	1421.1	1420.0	1418.9	1399.8	1381.2	1362.1	1343.5	1366.9	1390.2
5°	1727.7	1755.3	1783.0	1811.1	1838.8	1846.8	1854.7	1862.7	1870.7	1887.7	1904.7
7.5°	1839.8	1886.6	1932.8	1979.6	2025.9	2068.9	2111.4	2154.5	2197.5	2186.9	2176.2
10°	1801.1	1885.6	1970.0	2055.1	2139.6	2158.2	2176.8	2195.9	2214.5	2262.9	2311.2
12.5°	1759.1	1860.6	1962.1	2063.6	2165.1	2221.4	2277.2	2333.6	2389.9	2438.8	2487.7
15°	1958.4	2023.2	2088.0	2153.4	2218.2	2267.7	2316.5	2366.0	2414.9	2448.9	2482.4
17.5°	2220.4	2252.2	2284.1	2316.5	2348.4	2387.2	2426.0	2464.8	2503.6	2523.8	2544.0
20°	2497.2	2511.1	2524.9	2538.7	2552.5	2521.7	2490.9	2460.0	2429.2	2448.3	2466.9
22.5°	2775.2	2780.0	2785.3	2790.1	2794.8	2723.1	2651.4	2579.6	2507.9	2477.6	2447.3
25°	3203.0	3167.9	3132.8	3097.8	3062.7	2977.7	2892.6	2807.6	2722.6	2647.6	2572.7
27.5°	3666.4	3547.4	3428.9	3309.8	3191.3	3106.3	3021.2	2936.2	2851.2	2738.5	2625.8
30°	4133.5	3941.7	3750.4	3558.5	3367.2	3266.2	3165.3	3063.8	2962.8	2850.1	2738.0
32.5°	4561.9	4331.2	4100.6	3869.4	3638.8	3468.7	3298.7	3128.6	2958.5	2879.9	2801.2
35°	4916.9	4644.3	4371.6	4098.5	3825.8	3657.4	3488.9	3320.4	3152.0	3035.1	2918.7
37.5°	5523.8	5217.2	4910.5	4603.9	4297.2	4067.1	3837.5	3607.4	3377.3	3299.2	3221.1
40°	6083.4	5697.0	5310.7	4924.3	4538.0	4345.1	4152.7	3959.8	3767.4	3639.3	3511.8
42.5°	6528.2	6121.1	5714.6	5307.5	4900.4	4709.6	4519.4	4328.6	4137.8	4052.2	3967.2
45°	6624.4	6240.7	5857.5	5473.8	5090.1	4979.1	4868.5	4757.5	4646.9	4587.9	4529.5
47.5°	6814.1	6398.0	5982.4	5566.3	5150.2	5100.2	5050.3	4999.8	4949.8	4978.0	5006.2
50°	6920.4	6495.8	6071.2	5646.6	5221.9	5236.3	5250.1	5264.4	5278.8	5478.6	5677.9
52.5°	7126.6	6697.7	6268.9	5840.0	5411.1	5501.5	5591.3	5681.6	5771.4	6046.7	6321.5
55°	7494.9	7073.5	6652.0	6230.1	5808.6	5927.7	6046.7	6166.3	6285.3	6577.6	6869.4
57.5°	8040.7	7622.5	7204.7	6786.5	6368.8	6487.3	6605.8	6724.3	6842.8	7107.0	7370.5
60°	8727.8	8298.4	7869.6	7440.2	7011.3	7055.9	7100.0	7144.7	7189.3	7473.1	7756.4
62.5°	9263.0	8868.1	8473.8	8079.0	7684.6	7635.2	7586.3	7536.9	7488.0	7703.8	7919.0
65°	9387.4	9109.4	8832.0	8554.1	8276.1	8124.1	7972.7	7820.7	7668.7	7755.8	7843.0
67.5°	9031.3	8843.7	8656.6	8469.0	8281.4	7964.2	7646.9	7329.1	7011.8	6965.6	6919.4
70°	8204.9	8102.3	8000.3	7897.7	7795.7	7306.8	6818.4	6329.5	5841.1	5723.6	5606.2
72.5°	6474.5	6538.3	6602.1	6666.4	6730.2	6206.7	5683.8	5160.3	4636.8	4488.0	4339.7
75°	4565.6	4781.9	4998.2	5214.5	5430.8	4953.6	4476.9	3999.6	3522.4	3379.4	3237.0
77.5°	2475.4	2880.9	3286.4	3691.9	4097.4	3703.6	3310.3	2916.5	2522.7	2423.4	2324.5
80°	1173.4	1407.3	1640.6	1874.4	2108.2	2019.5	1930.7	1841.4	1752.7	1774.5	1796.3
82.5°	359.8	528.8	697.8	866.8	1035.8	1049.1	1061.8	1075.1	1088.4	1121.3	1153.8
85°	120.6	165.3	209.9	254.6	299.2	377.9	456.5	535.7	614.3	563.3	512.8
87.5°	0.0	1.6	2.7	4.3	5.3	16.5	27.6	38.8	50.0	43.0	36.7
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



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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: P597103

CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1414.2	1437.5	1438.1	1439.1	1439.7	1440.2	1442.9	1445.5	1448.7	1451.4	1433.8
5°	1922.2	1939.2	1907.9	1876.5	1844.6	1813.3	1841.4	1869.6	1897.8	1925.9	1913.7
7.5°	2165.1	2154.5	2150.7	2147.6	2143.8	2140.6	2151.3	2161.9	2172.5	2183.2	2182.1
10°	2359.6	2408.0	2419.6	2431.3	2443.6	2455.3	2430.8	2406.4	2381.9	2357.5	2347.4
12.5°	2536.6	2585.5	2624.3	2663.0	2702.4	2741.2	2706.1	2671.6	2636.5	2601.9	2569.0
15°	2516.4	2549.9	2581.7	2613.6	2645.5	2677.4	2665.7	2654.5	2642.9	2631.2	2625.8
17.5°	2564.7	2584.9	2577.5	2570.0	2562.1	2554.6	2550.9	2547.7	2544.0	2540.3	2527.5
20°	2486.1	2505.2	2500.4	2496.2	2491.4	2486.6	2483.4	2480.2	2477.0	2473.9	2463.8
22.5°	2417.0	2386.7	2378.7	2371.3	2363.3	2355.9	2356.9	2358.0	2358.5	2359.6	2405.3
25°	2497.8	2422.8	2393.6	2364.4	2334.6	2305.4	2318.7	2331.4	2344.7	2358.0	2423.9
27.5°	2512.7	2400.0	2353.2	2306.5	2259.7	2212.9	2260.7	2308.6	2356.4	2404.2	2511.1
30°	2625.3	2513.2	2447.8	2383.0	2317.6	2252.8	2313.9	2375.0	2436.1	2497.2	2613.1
32.5°	2722.0	2643.4	2596.6	2549.9	2503.1	2456.3	2459.0	2461.1	2463.8	2466.4	2629.6
35°	2801.8	2685.4	2642.9	2600.9	2558.4	2516.4	2579.6	2642.9	2706.1	2769.3	2916.0
37.5°	3142.9	3064.8	2986.7	2909.1	2831.0	2753.4	2803.9	2854.4	2905.4	2955.9	3118.0
40°	3383.7	3256.1	3235.9	3216.3	3196.1	3176.4	3202.5	3228.0	3254.0	3280.1	3421.9
42.5°	3881.6	3796.1	3741.3	3687.1	3632.4	3578.2	3598.9	3619.6	3640.9	3661.6	3796.1
45°	4470.5	4411.5	4375.3	4339.2	4302.5	4266.4	4235.0	4204.2	4172.9	4142.0	4278.6
47.5°	5034.3	5062.5	5142.2	5221.4	5301.1	5380.3	5315.5	5250.6	5185.3	5120.4	5121.0
50°	5877.7	6077.0	6117.4	6157.3	6197.7	6237.5	6099.3	5961.2	5822.5	5684.3	5667.8
52.5°	6596.8	6871.5	6885.9	6900.2	6915.1	6929.5	6873.7	6817.8	6761.5	6705.7	6557.4
55°	7161.7	7453.5	7473.1	7492.2	7511.9	7531.0	7482.2	7433.8	7384.9	7336.0	7186.1
57.5°	7634.7	7898.3	7910.0	7921.1	7932.8	7944.5	7948.2	7951.9	7956.2	7959.9	7757.4
60°	8040.2	8324.0	8300.6	8277.7	8254.3	8231.5	8196.4	8161.3	8126.3	8091.2	7960.4
62.5°	8134.8	8350.5	8314.4	8278.8	8242.6	8207.0	8177.3	8148.0	8118.3	8088.5	8005.1
65°	7930.2	8017.3	7980.1	7942.9	7905.2	7868.0	7848.8	7830.2	7811.1	7792.0	7781.4
67.5°	6872.6	6826.4	6870.5	6914.6	6958.7	7002.8	7062.8	7122.9	7183.5	7243.5	7208.5
70°	5488.2	5370.7	5419.6	5468.0	5516.9	5565.2	5656.1	5747.0	5838.4	5929.3	5904.8
72.5°	4190.9	4042.1	4049.0	4056.0	4063.4	4070.3	4067.6	4065.5	4062.9	4060.2	4102.7
75°	3094.0	2951.1	2883.6	2816.1	2748.6	2681.1	2664.6	2648.2	2631.7	2615.2	2694.4
77.5°	2225.1	2126.3	2080.1	2034.4	1988.1	1942.4	1965.8	1989.2	2013.1	2036.5	2064.1
80°	1818.6	1840.4	1804.8	1769.7	1734.1	1698.5	1725.1	1751.1	1777.7	1804.2	1721.9
82.5°	1186.7	1219.1	1109.6	1000.2	890.7	781.2	847.6	914.1	981.0	1047.5	1013.5
85°	461.8	411.3	350.8	290.7	230.1	169.5	220.5	271.6	322.6	373.6	407.6
87.5°	29.8	23.4	18.6	13.8	8.5	3.7	8.0	12.2	17.0	21.3	35.6
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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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: P597103

CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1416.8	1399.3	1382.3	1348.8	1315.3	1281.8	1248.4	1295.1	1341.9	1388.7	1435.4
5°	1902.0	1889.8	1878.1	1881.3	1884.5	1888.2	1891.4	1898.3	1905.2	1911.6	1918.5
7.5°	2181.6	2180.5	2179.4	2155.0	2130.5	2105.6	2081.1	2093.3	2105.6	2117.8	2130.0
10°	2337.8	2327.7	2317.6	2263.9	2210.3	2156.1	2102.4	2079.0	2055.1	2031.7	2008.3
12.5°	2536.0	2502.6	2469.6	2412.2	2355.3	2297.9	2240.6	2219.3	2197.5	2176.2	2154.5
15°	2621.1	2615.8	2611.0	2570.0	2528.6	2487.7	2446.2	2373.4	2300.1	2227.3	2154.5
17.5°	2514.8	2501.5	2488.7	2553.6	2617.9	2682.7	2747.5	2672.1	2596.6	2521.2	2445.7
20°	2453.7	2443.6	2433.5	2554.1	2674.2	2794.8	2915.0	2881.5	2847.5	2814.0	2780.5
22.5°	2451.0	2497.2	2542.9	2648.7	2753.9	2859.7	2964.9	3022.8	3081.3	3139.2	3197.1
25°	2489.8	2556.2	2622.1	2797.5	2972.9	3148.8	3324.2	3390.6	3456.5	3522.9	3588.8
27.5°	2617.3	2724.2	2830.5	2983.5	3136.6	3290.1	3443.2	3588.3	3733.9	3879.0	4024.1
30°	2728.4	2844.3	2960.1	3142.4	3324.2	3506.4	3688.2	3869.9	4051.7	4233.5	4415.2
32.5°	2792.7	2956.4	3119.6	3341.2	3562.2	3783.9	4005.5	4204.8	4404.0	4602.8	4802.1
35°	3062.7	3209.9	3356.6	3601.6	3846.6	4092.1	4337.1	4583.7	4830.3	5076.3	5322.9
37.5°	3280.1	3442.7	3604.8	3872.6	4139.9	4407.8	4675.6	5016.3	5357.5	5698.1	6038.8
40°	3563.8	3705.7	3847.6	4098.5	4348.8	4599.6	4850.5	5282.5	5714.6	6146.1	6578.2
42.5°	3930.0	4064.5	4198.9	4467.3	4735.7	5004.0	5272.4	5750.7	6229.0	6706.8	7185.1
45°	4415.2	4552.3	4688.9	4902.5	5116.2	5329.8	5543.5	6052.0	6560.1	7068.7	7576.7
47.5°	5121.5	5122.0	5122.6	5276.7	5430.8	5585.4	5739.6	6251.9	6763.6	7276.0	7787.7
50°	5651.3	5634.3	5617.9	5697.6	5776.8	5856.5	5936.2	6407.6	6879.5	7350.9	7822.3
52.5°	6409.7	6261.4	6113.7	6161.0	6207.8	6255.1	6301.8	6700.9	7100.6	7499.7	7898.8
55°	7036.8	6886.9	6737.1	6719.5	6702.0	6684.5	6666.9	7034.1	7401.4	7768.6	8135.8
57.5°	7555.5	7353.0	7151.1	7110.7	7070.8	7030.4	6990.0	7377.5	7764.3	8151.8	8538.7
60°	7830.2	7699.5	7568.8	7542.7	7516.2	7490.1	7463.6	7781.4	8099.2	8417.0	8734.8
62.5°	7922.2	7838.7	7755.8	7804.7	7853.6	7903.1	7951.9	8091.7	8231.0	8370.7	8510.0
65°	7771.3	7760.6	7750.0	7850.4	7950.3	8050.8	8151.2	8116.7	8081.6	8047.1	8012.5
67.5°	7173.9	7138.8	7104.3	7324.8	7544.9	7765.4	7986.0	7818.6	7650.6	7483.2	7315.8
70°	5880.4	5855.4	5831.0	6148.8	6466.6	6784.9	7102.7	6899.7	6696.7	6493.7	6290.7
72.5°	4144.7	4187.2	4229.7	4604.4	4978.5	5353.2	5727.3	5522.7	5318.1	5113.5	4908.9
75°	2773.1	2852.2	2931.4	3317.3	3703.1	4089.4	4475.3	4235.0	3994.8	3754.6	3514.4
77.5°	2091.7	2119.4	2147.0	2391.0	2634.9	2879.3	3123.3	2925.0	2726.3	2528.1	2329.3
80°	1639.5	1556.6	1474.2	1554.5	1634.7	1715.0	1795.2	1676.7	1558.2	1440.2	1321.7
82.5°	979.4	945.4	911.4	955.0	998.0	1041.6	1085.2	1034.2	982.6	931.6	880.1
85°	441.1	475.1	508.6	552.7	596.3	640.4	684.5	613.3	542.1	470.9	399.6
87.5°	49.4	63.8	78.1	96.7	115.3	133.9	152.5	119.0	85.0	51.5	18.1
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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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: P597103
 CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1123.5	1123.5
2.5°	1462.5	1489.6
5°	1918.0	1916.9
7.5°	2098.1	2065.7
10°	1978.6	1948.8
12.5°	2078.5	2002.5
15°	2097.1	2039.7
17.5°	2352.2	2258.1
20°	2659.9	2538.7
22.5°	3031.3	2865.0
25°	3391.1	3193.4
27.5°	3905.6	3786.5
30°	4295.1	4174.5
32.5°	4720.3	4638.4
35°	5241.6	5159.8
37.5°	6060.0	6080.7
40°	6590.9	6603.7
42.5°	7234.5	7283.9
45°	7632.0	7687.3
47.5°	7864.8	7941.8
50°	7946.6	8071.0
52.5°	8052.4	8205.4
55°	8306.4	8477.0
57.5°	8674.7	8810.8
60°	8741.1	8747.5
62.5°	8411.6	8313.3
65°	7907.8	7803.1
67.5°	7252.6	7188.8
70°	6206.7	6122.7
72.5°	4752.7	4596.4
75°	3321.0	3127.5
77.5°	2227.8	2126.3
80°	1324.9	1327.5
82.5°	904.5	928.4
85°	394.9	389.5
87.5°	12.8	6.9
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: P597103
CATALOG NUMBER: MSA-SA4A-835-U-SLR-HSS

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)