

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: P596862

Luminaire Tested: **MSA-SA1B-835-U-SLR**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596862
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-SA1B-835-U-SLR
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) 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: 3577 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

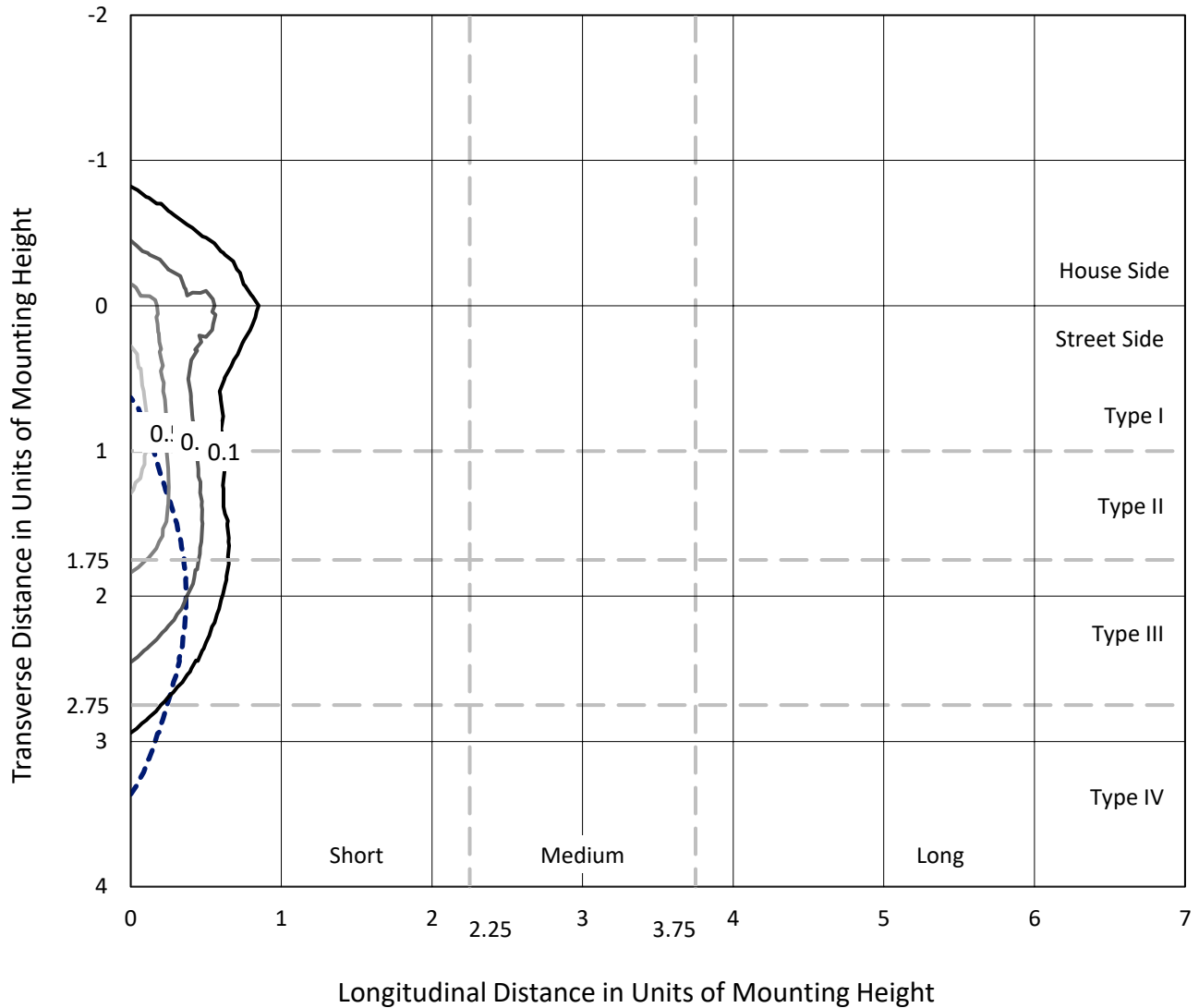
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

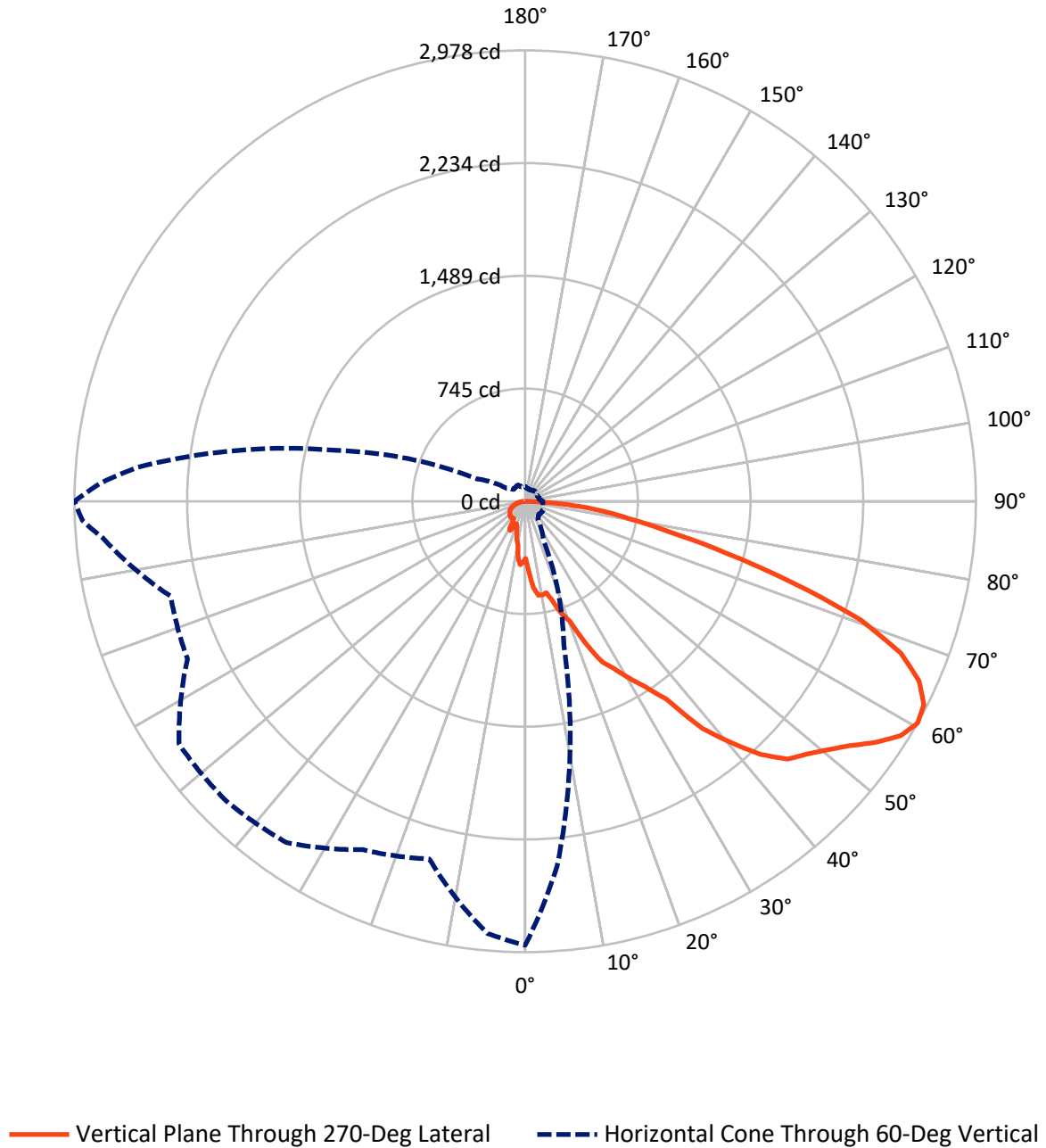
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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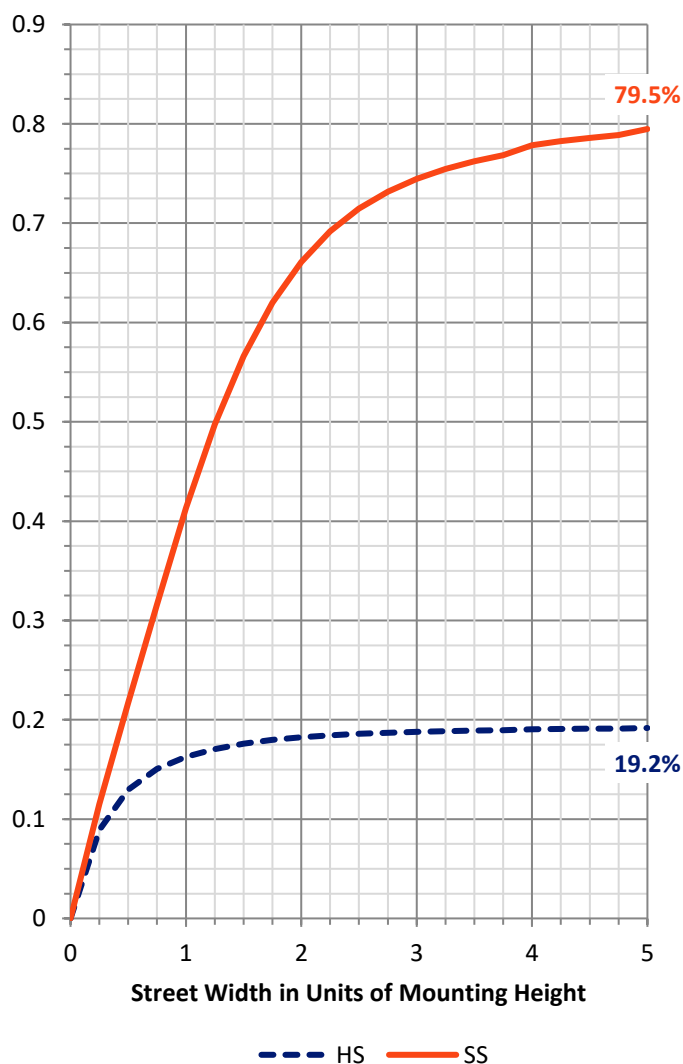
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.8	0.0	692.8
	% Fixture	19.4	0.0	19.4
Street Side	Lumens	2884.2	0.0	2884.2
	% Fixture	80.6	0.0	80.6
Total	Lumens	3577.0	0.0	3577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.2
10°-20°	125.7	3.5
20°-30°	221.9	6.2
30°-40°	345.6	9.7
40°-50°	568.9	15.9
50°-60°	812.0	22.7
60°-70°	861.0	24.1
70°-80°	475.6	13.3
80°-90°	123.1	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°	3577.0	100.0
0°-180°	3577.0	100.0

Coefficient of Utilization



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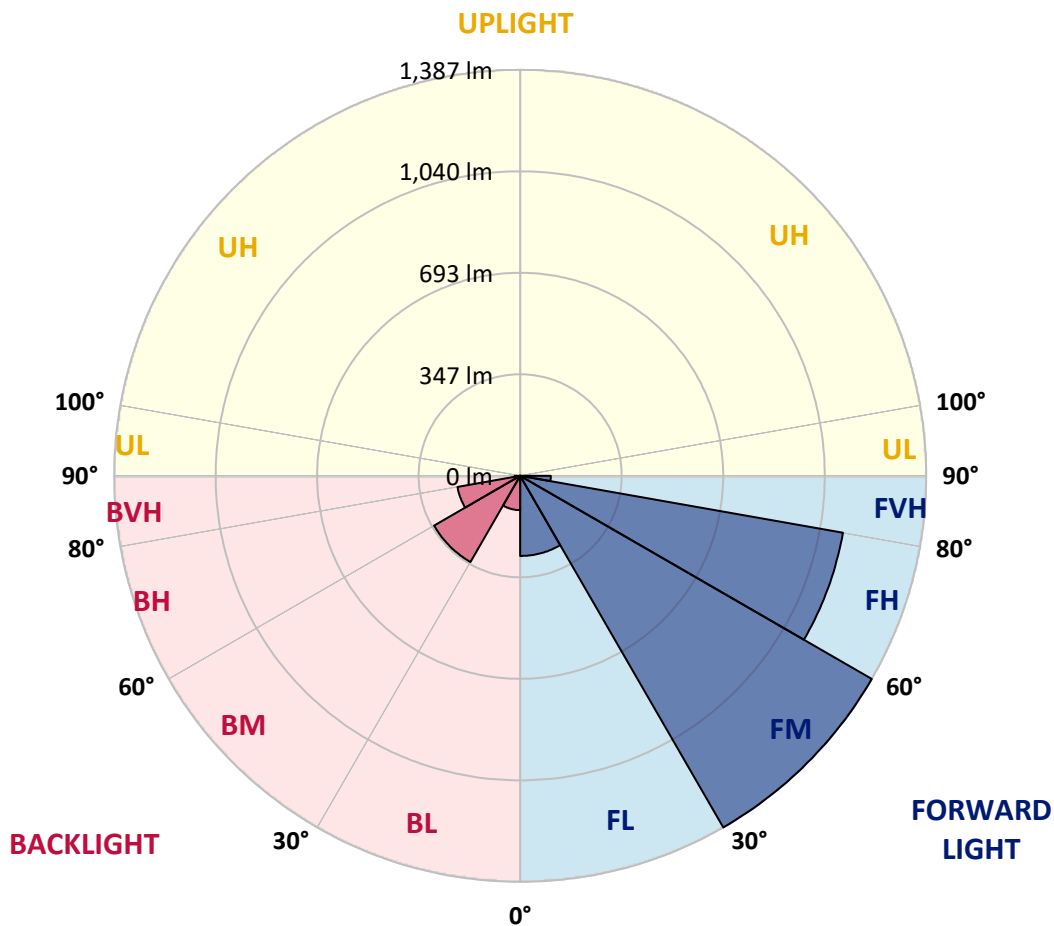
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.7	7.7			
FM (30°-60°)	1386.7	38.8			
FH (60°-80°)	1119.3	31.3			G1/1800
FVH (80°-90°)	104.6	2.9			G2/225
BL (0°-30°)	117.1	3.3	B1/500		
BM (30°-60°)	339.8	9.5	B1/1000		
BH (60°-80°)	217.4	6.1	B1/500		G1/500
BVH (80°-90°)	18.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-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°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	505.2	508.4	511.3	505.4	499.5	493.4	487.5	478.7	469.6	460.8	451.8
5°	606.8	595.3	583.7	579.0	574.5	569.8	565.1	560.8	556.5	551.9	547.6
7.5°	638.6	622.3	605.8	598.8	591.9	584.8	577.8	562.2	546.6	530.8	515.1
10°	603.7	586.7	569.5	562.7	555.8	549.0	542.0	522.9	504.0	484.9	465.8
12.5°	631.8	614.4	596.9	575.4	553.9	532.2	510.6	500.0	489.4	478.7	468.1
15°	658.9	635.5	611.8	590.3	568.8	547.1	525.6	504.4	483.2	462.0	440.8
17.5°	757.9	718.8	679.7	640.8	601.8	562.9	523.8	499.3	474.7	450.2	425.5
20°	878.5	824.2	769.7	710.6	651.4	592.4	533.2	502.3	471.6	440.7	409.7
22.5°	1022.1	953.5	885.0	810.5	736.0	661.3	586.8	542.0	497.3	452.3	407.5
25°	1136.2	1070.2	1004.2	909.8	815.3	720.9	626.4	575.6	524.7	473.6	422.8
27.5°	1247.0	1141.9	1036.7	928.5	820.5	712.4	604.2	557.2	510.1	463.0	416.0
30°	1340.5	1257.2	1173.9	1032.7	891.5	750.2	609.1	551.2	493.4	435.6	377.8
32.5°	1477.5	1358.6	1239.5	1092.3	945.0	797.8	650.6	576.6	502.6	428.7	354.7
35°	1637.8	1514.2	1390.5	1208.4	1026.5	844.3	662.2	583.9	505.4	427.1	348.6
37.5°	1936.6	1718.7	1500.6	1301.8	1103.0	904.0	705.3	614.3	523.3	432.1	341.2
40°	2101.3	1899.9	1698.5	1450.8	1203.0	955.1	707.3	614.3	521.0	428.0	334.7
42.5°	2321.0	2066.3	1811.4	1543.5	1275.8	1007.9	740.0	636.8	533.7	430.4	327.3
45°	2454.8	2171.0	1886.9	1600.6	1314.3	1028.0	741.7	637.0	532.3	427.6	322.9
47.5°	2541.1	2268.5	1995.8	1687.6	1379.4	1071.1	762.9	651.8	540.5	429.4	318.1
50°	2622.9	2352.9	2082.8	1762.8	1443.0	1123.0	803.0	681.6	560.3	438.7	317.4
52.5°	2723.3	2474.6	2225.8	1882.6	1539.2	1195.9	852.5	720.4	588.2	456.1	324.0
55°	2869.3	2624.3	2379.1	2010.7	1642.1	1273.7	905.1	758.4	611.8	465.1	318.4
57.5°	2963.9	2715.4	2467.0	2091.3	1715.6	1339.7	963.9	801.4	638.9	476.2	313.7
60°	2932.5	2676.2	2419.8	2061.6	1703.4	1345.2	987.0	811.5	636.2	460.6	285.1
62.5°	2793.6	2521.2	2248.8	1927.9	1607.2	1286.4	965.5	787.0	608.7	430.2	251.8
65°	2599.5	2317.9	2036.1	1746.6	1457.2	1167.8	878.4	716.4	554.2	392.2	230.0
67.5°	2361.3	2067.7	1773.9	1517.6	1261.4	1004.9	748.7	613.2	478.0	342.6	207.1
70°	2062.5	1773.9	1485.3	1263.6	1041.9	820.2	598.5	496.6	394.8	292.9	191.0
72.5°	1657.7	1408.8	1159.8	985.3	810.8	636.3	461.8	391.0	320.3	249.5	178.7
75°	1179.1	1032.7	886.3	750.6	614.8	478.8	343.1	297.2	251.4	205.6	159.7
77.5°	837.9	751.6	665.3	558.9	452.5	346.0	239.6	212.7	185.9	159.0	132.1
80°	619.5	547.4	475.4	395.2	315.0	234.7	154.5	141.3	128.3	115.1	101.9
82.5°	407.8	375.4	342.7	279.2	215.6	152.1	88.5	83.7	78.8	74.0	69.1
85°	182.7	192.9	203.0	164.1	125.0	86.1	47.1	44.8	42.5	40.3	38.0
87.5°	17.5	25.9	34.2	29.3	24.3	19.4	14.4	14.2	14.2	14.1	13.9
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



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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°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	454.2	456.6	459.1	461.5	458.9	456.3	453.5	450.9	447.6	444.3	440.8
5°	540.3	532.8	525.6	518.1	507.0	495.9	484.6	473.5	472.1	470.5	469.1
7.5°	501.4	487.9	474.2	460.4	443.1	425.9	408.5	391.2	386.0	380.8	375.5
10°	456.6	447.2	438.0	428.7	417.9	407.1	396.2	385.4	371.2	356.8	342.6
12.5°	452.8	437.5	422.1	406.8	400.2	393.6	387.0	380.4	367.9	355.4	342.7
15°	428.5	416.0	403.7	391.2	381.6	372.1	362.5	353.0	342.9	332.7	322.6
17.5°	411.3	397.1	382.8	368.6	357.7	346.7	335.6	324.7	312.5	300.2	288.0
20°	393.4	377.3	361.0	344.6	330.7	317.0	303.1	289.3	275.9	262.7	249.3
22.5°	386.1	364.8	343.4	322.1	307.5	292.7	278.1	263.4	251.1	238.7	226.4
25°	397.2	371.9	346.4	320.9	301.2	281.4	261.8	242.0	231.8	221.5	211.1
27.5°	384.2	352.3	320.5	288.6	267.6	246.4	225.4	204.2	202.6	201.1	199.3
30°	344.3	310.8	277.3	243.8	224.5	205.0	185.8	166.3	162.7	158.9	155.2
32.5°	320.5	286.3	252.1	217.9	200.7	183.3	166.2	148.8	144.6	140.5	136.3
35°	311.5	274.3	237.2	200.0	185.3	170.5	155.7	141.0	138.0	135.3	132.3
37.5°	304.2	267.4	230.4	193.4	179.2	164.9	150.5	136.3	134.0	131.8	129.5
40°	297.2	259.9	222.4	184.9	172.2	159.7	147.1	134.4	133.0	131.6	130.0
42.5°	291.0	254.7	218.2	182.0	170.7	159.6	148.3	137.0	135.6	134.2	132.8
45°	287.5	252.1	216.7	181.3	173.1	164.9	156.6	148.4	145.1	141.8	138.4
47.5°	284.9	251.8	218.6	185.4	176.9	168.4	159.9	151.4	148.4	145.5	142.4
50°	285.4	253.7	221.7	189.8	179.5	169.1	158.9	148.4	148.1	147.8	147.4
52.5°	290.1	256.4	222.6	188.7	177.6	166.5	155.2	144.1	146.4	148.4	150.7
55°	283.4	248.3	213.0	178.0	167.4	157.0	146.4	135.8	138.7	141.5	144.5
57.5°	275.7	237.7	199.7	161.6	153.7	145.7	137.5	129.5	132.6	135.9	139.1
60°	250.4	215.6	180.9	146.2	140.8	135.4	130.0	124.7	126.0	127.4	128.8
62.5°	222.6	193.2	164.1	134.7	130.6	126.2	122.1	117.7	117.7	117.9	117.9
65°	204.9	179.7	154.5	129.3	124.7	120.0	115.1	110.4	109.7	109.0	108.3
67.5°	187.2	167.4	147.4	127.4	120.7	114.1	107.3	100.5	99.7	99.0	98.1
70°	173.3	155.6	137.9	120.1	112.5	105.0	97.4	89.8	89.1	88.5	87.9
72.5°	162.0	145.5	128.8	112.2	104.2	96.0	88.0	79.9	79.3	78.8	78.1
75°	145.0	130.4	115.6	100.9	93.1	85.4	77.6	69.8	69.1	68.6	67.9
77.5°	120.0	107.6	95.5	83.2	77.1	71.2	65.1	59.0	58.7	58.3	57.8
80°	92.4	82.8	73.1	63.5	59.6	55.4	51.4	47.2	47.1	46.9	46.5
82.5°	63.4	57.6	51.9	46.2	43.2	40.1	37.2	34.0	34.2	34.4	34.6
85°	36.1	34.0	32.1	30.0	27.6	25.3	22.9	20.5	21.0	21.5	21.9
87.5°	13.2	12.5	11.8	11.1	9.9	8.9	7.6	6.4	6.8	7.3	7.6
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



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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: P596862
 CATALOG NUMBER: MSA-SA1B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	437.5	432.3	427.1	421.9	416.7	405.9	395.3	384.6	373.8	380.4	387.2
5°	467.6	458.7	449.7	440.8	431.8	426.8	421.7	416.7	411.7	414.3	417.0
7.5°	370.3	365.1	359.7	354.5	349.2	346.9	344.8	342.6	340.3	346.7	353.1
10°	328.1	320.9	313.6	306.1	298.8	294.5	290.1	285.8	281.4	283.2	284.9
12.5°	330.2	319.5	308.7	297.9	287.2	280.7	274.3	267.9	261.5	263.0	264.6
15°	312.3	301.2	290.1	279.0	267.9	260.4	252.8	245.3	237.7	235.1	232.3
17.5°	275.7	263.6	251.4	239.3	227.1	222.1	217.0	212.0	207.0	204.2	201.4
20°	236.0	224.7	213.4	202.1	190.8	187.3	183.9	180.2	176.7	175.0	173.1
22.5°	214.1	207.1	200.0	193.1	185.9	182.0	178.1	174.1	170.1	168.2	166.2
25°	200.9	202.3	203.8	205.2	206.6	204.9	203.0	201.2	199.3	200.0	200.5
27.5°	197.8	200.7	203.8	206.8	209.7	211.3	212.9	214.4	216.0	216.5	217.0
30°	151.4	153.0	154.3	155.9	157.3	161.6	166.0	170.1	174.5	181.3	188.2
32.5°	132.1	131.6	131.1	130.4	129.9	130.9	132.0	132.8	133.9	136.3	138.9
35°	129.3	128.1	126.7	125.5	124.1	124.7	125.2	125.7	126.2	128.1	130.0
37.5°	127.3	126.7	126.4	125.9	125.4	126.6	127.6	128.8	129.9	131.4	133.0
40°	128.7	128.5	128.3	128.0	127.8	128.5	129.2	129.9	130.6	132.6	134.7
42.5°	131.4	131.4	131.3	131.3	131.1	131.8	132.3	133.0	133.5	134.7	135.9
45°	135.1	134.7	134.6	134.2	133.9	133.7	133.7	133.5	133.3	134.0	134.9
47.5°	139.4	138.2	136.8	135.6	134.2	133.9	133.3	133.0	132.5	132.8	133.2
50°	147.1	143.8	140.6	137.3	134.0	133.2	132.3	131.4	130.6	130.4	130.4
52.5°	152.8	147.9	143.1	138.2	133.3	131.8	130.2	128.7	127.1	126.7	126.6
55°	147.2	143.6	140.1	136.5	132.8	130.6	128.1	125.9	123.4	122.9	122.4
57.5°	142.2	139.9	137.7	135.4	133.2	130.9	128.5	126.2	123.8	122.6	121.4
60°	130.2	130.2	130.4	130.4	130.4	128.0	125.5	123.1	120.7	119.5	118.4
62.5°	117.9	119.8	121.5	123.4	125.2	121.9	118.4	115.1	111.6	110.8	110.1
65°	107.6	108.2	108.9	109.4	109.9	107.3	104.7	102.1	99.5	99.0	98.3
67.5°	97.2	97.1	96.9	96.5	96.4	94.8	93.1	91.5	89.8	89.1	88.4
70°	87.2	87.0	86.8	86.5	86.3	84.9	83.5	82.1	80.7	80.2	79.7
72.5°	77.6	77.4	77.1	76.9	76.6	75.4	74.3	73.1	71.9	71.2	70.5
75°	67.2	66.8	66.5	66.1	65.8	64.8	63.7	62.5	61.5	60.8	60.1
77.5°	57.5	56.9	56.4	55.7	55.2	54.3	53.3	52.4	51.4	50.5	49.8
80°	46.4	46.0	45.7	45.1	44.8	43.9	43.1	42.0	41.1	40.1	39.2
82.5°	34.7	34.6	34.2	34.0	33.7	32.8	31.9	31.1	30.2	29.2	28.1
85°	22.4	22.2	22.0	21.9	21.7	21.0	20.5	19.8	19.1	18.1	17.2
87.5°	8.0	7.6	7.5	7.1	6.8	6.6	6.3	6.1	5.7	5.2	4.7
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: P596862
 CATALOG NUMBER: MSA-SA1B-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: P596862
 CATALOG NUMBER: MSA-SA1B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	393.8	400.4	400.5	400.5	403.7	406.6	400.5	394.5	388.2	382.1	376.1
5°	419.6	422.2	421.6	420.7	416.9	413.0	409.1	405.1	401.1	397.1	397.2
7.5°	359.6	366.0	371.2	376.2	371.4	366.5	363.9	361.3	358.7	356.1	355.8
10°	286.5	288.2	290.3	292.2	289.3	286.1	291.3	296.5	301.6	306.8	301.1
12.5°	266.2	267.7	264.1	260.3	259.0	257.8	256.6	255.2	254.0	252.6	251.9
15°	229.7	226.9	224.1	221.2	220.5	219.6	218.8	217.7	216.9	215.8	212.7
17.5°	198.6	195.8	191.2	186.3	184.4	182.3	181.8	181.3	180.6	180.0	177.1
20°	171.4	169.5	168.2	166.9	164.9	163.0	161.1	159.2	157.1	155.2	152.4
22.5°	164.2	162.2	160.6	158.9	158.5	158.2	154.7	151.1	147.6	143.9	142.4
25°	201.2	201.7	192.2	182.5	181.6	180.7	174.5	168.1	161.8	155.4	150.0
27.5°	217.4	217.9	217.5	217.2	214.4	211.5	200.9	190.1	179.5	168.8	161.1
30°	195.0	201.7	204.4	207.0	205.0	203.0	191.9	180.9	169.8	158.7	153.7
32.5°	141.3	143.8	148.1	152.3	154.5	156.6	153.1	149.7	146.2	142.7	141.8
35°	131.8	133.7	134.6	135.4	134.0	132.6	130.0	127.4	124.7	122.1	121.5
37.5°	134.4	135.9	137.7	139.4	135.6	131.6	128.7	125.9	122.9	120.0	117.5
40°	136.8	138.9	139.9	141.0	137.2	133.3	129.7	126.2	122.6	118.9	116.5
42.5°	137.2	138.4	140.3	142.2	136.8	131.3	128.0	124.5	121.2	117.7	115.3
45°	135.6	136.3	138.0	139.8	133.5	127.1	124.1	121.0	118.1	114.9	112.9
47.5°	133.3	133.7	135.1	136.3	129.7	122.9	120.1	117.4	114.4	111.6	109.6
50°	130.2	130.0	131.1	132.0	125.2	118.4	115.6	113.0	110.2	107.5	105.7
52.5°	126.2	125.9	126.9	127.8	120.7	113.5	111.1	108.9	106.4	104.0	102.6
55°	121.7	121.2	122.1	122.9	116.0	108.9	106.8	104.5	102.4	100.2	99.0
57.5°	120.0	118.8	119.3	119.8	112.0	104.2	102.1	100.0	97.9	95.8	95.0
60°	117.2	116.0	116.5	116.8	108.5	100.0	98.1	96.0	94.1	92.0	91.2
62.5°	109.2	108.3	109.0	109.7	102.3	94.6	92.9	91.3	89.6	87.9	86.6
65°	97.7	97.1	98.4	99.8	93.4	87.0	85.9	84.9	83.7	82.6	81.4
67.5°	87.7	87.0	88.4	89.8	85.1	80.4	79.3	78.3	77.3	76.2	75.5
70°	79.2	78.7	79.9	81.1	77.1	73.1	72.1	71.2	70.1	69.1	68.6
72.5°	69.6	68.9	70.5	71.9	68.6	65.1	64.2	63.2	62.3	61.3	60.9
75°	59.4	58.7	60.1	61.3	59.0	56.6	55.7	54.9	54.0	53.1	53.0
77.5°	49.0	48.1	49.5	50.7	49.3	47.7	47.1	46.2	45.5	44.6	44.6
80°	38.2	37.2	38.2	39.1	38.5	38.0	37.5	36.8	36.3	35.6	35.8
82.5°	27.1	26.0	26.6	27.1	27.4	27.8	27.8	27.8	27.8	27.8	27.8
85°	16.1	15.1	15.3	15.5	16.0	16.5	16.7	16.8	17.0	17.2	17.4
87.5°	4.2	3.6	3.3	2.8	3.3	3.6	4.0	4.2	4.5	4.7	4.7
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: P596862
 CATALOG NUMBER: MSA-SA1B-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: P596862
 CATALOG NUMBER: MSA-SA1B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	370.0	363.7	357.7	361.5	365.1	368.9	372.6	372.8	372.8	372.9	372.9
5°	397.6	397.8	397.9	394.3	390.8	387.2	383.5	381.6	379.7	377.6	375.7
7.5°	355.2	354.9	354.4	350.9	347.4	343.9	340.5	332.1	323.6	315.3	306.8
10°	295.2	289.4	283.5	282.1	280.9	279.5	278.1	275.9	273.8	271.5	269.3
12.5°	251.2	250.5	249.8	246.2	242.5	238.7	235.1	235.1	235.1	235.1	235.1
15°	209.4	206.3	203.0	201.2	199.3	197.6	195.7	194.8	193.9	193.1	192.2
17.5°	174.0	171.0	167.9	167.5	167.2	166.9	166.5	165.6	164.8	163.9	163.0
20°	149.7	146.9	144.1	145.1	146.2	147.1	148.1	147.2	146.4	145.3	144.5
22.5°	140.6	139.1	137.3	136.5	135.6	134.6	133.7	133.7	133.9	133.9	133.9
25°	144.8	139.4	134.0	131.4	128.8	126.0	123.4	122.4	121.5	120.5	119.5
27.5°	153.5	145.7	138.0	133.5	129.0	124.5	120.0	118.1	116.0	114.1	112.0
30°	148.4	143.4	138.2	133.0	127.8	122.6	117.4	114.9	112.5	109.9	107.5
32.5°	141.0	139.9	139.1	134.2	129.3	124.3	119.5	118.4	117.5	116.5	115.5
35°	120.8	120.3	119.6	118.4	117.2	116.0	114.8	113.4	112.0	110.6	109.2
37.5°	115.3	112.9	110.4	109.9	109.4	108.9	108.3	107.8	107.3	106.6	106.1
40°	114.1	111.6	109.2	108.3	107.5	106.4	105.6	105.7	106.1	106.3	106.4
42.5°	112.7	110.2	107.6	107.0	106.3	105.6	104.9	105.0	105.4	105.6	105.7
45°	110.9	108.9	106.8	105.6	104.5	103.3	102.1	103.1	104.2	105.0	106.1
47.5°	107.5	105.2	103.1	102.4	101.7	100.9	100.2	101.2	102.3	103.1	104.2
50°	103.8	102.1	100.2	100.0	99.8	99.5	99.3	100.0	100.7	101.4	102.1
52.5°	101.0	99.7	98.1	98.1	97.9	97.9	97.7	98.4	99.1	99.7	100.4
55°	97.9	96.7	95.5	95.7	96.0	96.2	96.4	97.1	97.9	98.6	99.3
57.5°	93.9	93.1	92.0	92.7	93.2	93.9	94.5	95.0	95.7	96.2	96.7
60°	90.1	89.2	88.2	88.9	89.8	90.5	91.2	91.7	92.2	92.7	93.2
62.5°	85.4	84.0	82.8	83.9	84.7	85.8	86.6	87.0	87.5	87.9	88.2
65°	80.4	79.2	78.0	78.7	79.3	79.9	80.6	81.1	81.6	82.1	82.6
67.5°	74.7	74.0	73.1	73.6	74.1	74.7	75.2	75.4	75.4	75.5	75.5
70°	67.9	67.4	66.7	67.0	67.5	67.9	68.2	68.2	68.2	68.1	68.1
72.5°	60.8	60.4	60.1	60.2	60.6	60.8	60.9	60.8	60.6	60.4	60.2
75°	52.8	52.6	52.4	52.6	53.0	53.1	53.3	53.1	52.8	52.6	52.3
77.5°	44.8	44.8	44.8	44.8	45.0	45.0	45.0	44.6	44.3	43.9	43.6
80°	35.9	36.1	36.3	36.3	36.3	36.3	36.3	35.9	35.6	35.1	34.7
82.5°	27.8	27.8	27.8	27.8	28.0	28.0	28.0	27.1	26.4	25.5	24.7
85°	17.4	17.5	17.5	17.7	17.9	17.9	18.1	16.8	15.8	14.6	13.4
87.5°	4.7	4.7	4.7	4.7	4.7	4.5	4.5	3.5	2.3	1.2	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: P596862
 CATALOG NUMBER: MSA-SA1B-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: P596862
 CATALOG NUMBER: MSA-SA1B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	374.0	375.0	375.9	376.9	377.1	377.3	377.3	377.5	373.8	370.2	366.3
5°	378.3	380.8	383.4	385.8	385.3	384.7	384.2	383.7	382.7	381.8	380.8
7.5°	304.9	303.1	301.2	299.3	300.9	302.4	304.0	305.6	306.3	307.0	307.5
10°	264.9	260.6	256.3	251.9	249.5	246.9	244.5	241.9	241.5	241.3	241.0
12.5°	230.6	225.9	221.4	216.7	215.3	213.7	212.3	210.8	212.2	213.6	214.8
15°	190.3	188.6	186.6	184.7	186.3	187.9	189.4	191.0	192.4	193.6	195.0
17.5°	162.2	161.5	160.6	159.7	161.1	162.7	164.1	165.5	168.6	171.7	174.8
20°	143.8	143.2	142.5	141.8	141.3	140.6	140.1	139.4	143.9	148.3	152.8
22.5°	132.8	131.8	130.7	129.7	129.9	130.0	130.0	130.2	133.9	137.7	141.3
25°	119.1	118.8	118.4	118.1	119.1	120.1	121.0	122.1	125.4	128.7	131.8
27.5°	112.2	112.3	112.5	112.7	114.1	115.6	117.0	118.4	120.7	122.9	125.2
30°	108.3	109.4	110.2	111.1	111.6	112.2	112.7	113.2	115.5	117.5	119.8
32.5°	114.1	112.7	111.1	109.7	110.4	111.3	112.0	112.7	114.8	116.8	118.9
35°	108.7	108.0	107.5	106.8	107.6	108.5	109.2	110.1	112.0	113.7	115.6
37.5°	105.9	105.7	105.6	105.4	105.9	106.4	106.8	107.3	109.0	110.8	112.3
40°	105.7	104.9	104.2	103.3	103.8	104.3	104.7	105.2	107.3	109.4	111.5
42.5°	104.7	103.7	102.4	101.4	101.9	102.6	103.1	103.7	105.9	108.0	110.2
45°	104.5	103.0	101.2	99.7	100.4	101.0	101.7	102.4	104.2	105.9	107.5
47.5°	102.6	101.0	99.5	97.9	98.3	98.6	98.8	99.1	100.7	102.1	103.7
50°	101.0	99.8	98.8	97.6	97.1	96.7	96.2	95.7	96.9	98.1	99.3
52.5°	99.1	97.9	96.5	95.3	94.6	93.9	93.2	92.5	93.6	94.5	95.5
55°	97.9	96.4	95.0	93.4	92.5	91.7	90.8	89.9	90.6	91.2	91.8
57.5°	95.3	93.9	92.4	91.0	89.9	88.9	87.7	86.6	87.0	87.3	87.7
60°	91.8	90.3	88.9	87.3	86.1	84.9	83.5	82.3	82.5	82.8	83.0
62.5°	86.8	85.4	83.9	82.5	81.1	79.9	78.5	77.1	77.4	77.6	78.0
65°	81.3	79.7	78.3	76.7	75.5	74.3	72.9	71.7	72.1	72.4	72.6
67.5°	74.5	73.3	72.2	71.0	70.0	68.8	67.7	66.5	66.7	66.8	67.0
70°	67.2	66.1	65.3	64.2	63.4	62.5	61.6	60.8	60.8	60.9	60.9
72.5°	59.4	58.5	57.6	56.8	55.9	55.2	54.3	53.5	53.8	54.2	54.3
75°	51.4	50.7	49.8	49.0	48.3	47.6	46.7	46.0	46.4	46.7	46.9
77.5°	43.1	42.5	41.8	41.3	40.6	39.9	39.1	38.4	38.7	39.1	39.2
80°	34.4	34.0	33.5	33.2	32.5	31.8	31.1	30.4	30.6	30.6	30.7
82.5°	24.8	25.0	25.0	25.2	24.7	24.0	23.4	22.7	22.7	22.7	22.6
85°	13.9	14.6	15.1	15.6	15.1	14.6	14.1	13.5	13.4	13.4	13.2
87.5°	0.5	0.9	1.4	1.7	1.6	1.4	1.0	0.9	1.0	1.2	1.2
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: P596862
 CATALOG NUMBER: MSA-SA1B-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: P596862
 CATALOG NUMBER: MSA-SA1B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	362.7	365.6	368.6	371.6	374.5	379.0	383.5	388.2	392.9	390.3	387.5
5°	379.7	381.4	383.4	385.1	386.8	391.9	396.7	402.8	408.7	408.0	407.1
7.5°	308.2	310.6	313.0	315.3	317.7	325.4	333.0	339.4	345.9	345.0	343.9
10°	240.6	245.7	250.9	255.9	261.0	267.2	273.3	278.7	284.0	293.1	301.9
12.5°	216.2	224.0	231.8	239.6	247.4	251.9	256.3	263.2	270.2	275.0	280.1
15°	196.2	203.5	210.8	218.1	225.4	225.7	226.1	233.3	240.6	244.8	248.8
17.5°	178.0	182.0	185.9	189.8	193.8	192.4	191.0	194.5	197.8	199.5	201.4
20°	157.1	159.9	162.7	165.5	168.2	170.1	171.9	174.0	175.9	174.1	172.2
22.5°	145.0	149.1	153.5	157.6	161.8	163.0	164.1	162.9	161.6	161.1	160.6
25°	135.1	140.1	145.3	150.4	155.4	157.8	160.3	161.3	162.2	160.3	158.3
27.5°	127.4	133.5	139.4	145.5	151.4	155.7	160.1	161.3	162.3	160.9	159.4
30°	121.9	128.5	135.1	141.7	148.3	154.9	161.3	167.0	172.6	172.1	171.5
32.5°	121.0	125.5	130.0	134.6	139.1	143.2	147.2	147.6	147.8	146.4	144.8
35°	117.4	120.3	123.3	126.2	129.2	131.8	134.2	133.9	133.5	132.1	130.7
37.5°	114.1	117.0	120.1	123.1	126.0	130.6	134.9	134.0	133.0	131.6	130.2
40°	113.5	116.8	120.1	123.3	126.6	130.7	134.9	134.0	133.2	131.4	129.7
42.5°	112.3	115.6	118.8	122.1	125.2	130.2	135.1	133.5	131.8	130.4	129.0
45°	109.2	112.2	115.1	118.1	121.0	126.4	131.8	129.9	128.0	127.4	126.7
47.5°	105.0	108.0	110.9	113.9	116.8	122.2	127.4	125.9	124.1	124.0	123.6
50°	100.5	103.3	106.3	109.0	111.8	117.2	122.4	121.0	119.6	119.8	119.8
52.5°	96.4	99.0	101.4	104.0	106.4	111.8	117.0	116.0	114.8	115.1	115.3
55°	92.4	94.5	96.5	98.6	100.7	105.9	111.1	109.6	108.0	108.5	109.0
57.5°	88.0	89.8	91.5	93.1	94.8	100.0	105.0	103.3	101.4	102.3	103.0
60°	83.2	84.7	86.3	87.7	89.2	93.9	98.4	96.9	95.1	96.4	97.4
62.5°	78.1	79.3	80.6	81.8	83.0	87.3	91.7	90.5	89.2	90.6	91.8
65°	72.9	73.8	74.8	75.7	76.6	80.7	84.7	83.9	83.0	84.2	85.4
67.5°	67.2	67.9	68.8	69.4	70.1	74.0	77.8	76.9	75.9	76.9	77.8
70°	60.9	61.6	62.2	62.9	63.4	66.8	70.3	69.1	67.7	68.8	69.6
72.5°	54.7	55.0	55.6	55.9	56.3	58.9	61.5	60.4	59.4	60.4	61.3
75°	47.2	47.6	47.9	48.3	48.6	50.9	53.0	51.7	50.4	51.4	52.4
77.5°	39.6	39.8	40.1	40.3	40.5	42.0	43.4	42.2	40.8	42.0	43.2
80°	30.7	30.9	31.1	31.1	31.3	31.8	32.3	31.4	30.4	31.9	33.5
82.5°	22.6	22.4	22.4	22.2	22.0	22.0	21.9	21.4	20.7	22.0	23.4
85°	13.0	12.8	12.5	12.3	12.0	11.5	10.9	10.8	10.6	11.8	13.0
87.5°	1.4	1.2	0.9	0.7	0.3	0.2	0.0	0.0	0.0	0.7	1.6
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: P596862
 CATALOG NUMBER: MSA-SA1B-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: P596862
 CATALOG NUMBER: MSA-SA1B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	384.9	382.1	379.5	376.9	374.3	371.7	376.6	381.4	386.3	391.2	395.5
5°	406.4	405.6	403.3	401.2	399.0	396.7	397.9	399.3	400.5	401.8	404.4
7.5°	343.1	342.0	346.9	351.6	356.4	361.1	362.3	363.4	364.6	365.6	365.0
10°	311.0	319.8	322.1	324.2	326.4	328.5	332.0	335.4	338.7	342.2	344.1
12.5°	284.9	289.8	297.8	305.9	313.9	321.9	327.1	332.3	337.5	342.7	353.5
15°	253.0	257.0	263.0	269.1	275.2	281.3	288.7	296.4	303.8	311.3	323.1
17.5°	203.1	204.9	209.4	213.9	218.2	222.8	232.8	242.7	252.8	262.7	276.2
20°	170.5	168.6	168.6	168.8	168.8	168.8	178.8	188.7	198.8	208.7	226.6
22.5°	159.9	159.4	157.5	155.4	153.5	151.4	156.6	162.0	167.2	172.4	187.0
25°	156.3	154.3	151.9	149.5	147.1	144.6	147.9	151.2	154.5	157.8	169.3
27.5°	158.0	156.4	157.6	158.7	159.9	160.9	162.0	163.0	164.1	165.1	169.1
30°	171.0	170.5	172.4	174.1	176.1	177.8	175.4	173.1	170.7	168.2	169.6
32.5°	143.4	141.8	141.2	140.5	139.8	139.1	138.9	138.7	138.4	138.2	141.3
35°	129.3	128.0	126.9	125.9	124.7	123.6	124.1	124.5	125.0	125.4	128.8
37.5°	128.8	127.4	126.2	125.0	123.6	122.4	122.9	123.6	124.1	124.7	127.3
40°	128.0	126.2	125.5	124.8	124.1	123.4	123.8	124.1	124.3	124.7	126.6
42.5°	127.4	126.0	125.7	125.4	125.0	124.7	125.0	125.4	125.5	125.9	128.1
45°	126.2	125.5	125.9	126.2	126.6	126.9	126.9	126.9	126.9	126.9	129.3
47.5°	123.4	123.1	124.1	125.2	126.2	127.3	129.0	130.7	132.3	134.0	134.6
50°	120.0	120.0	121.7	123.4	125.0	126.7	130.9	134.9	139.1	143.1	140.5
52.5°	115.6	115.8	118.4	120.8	123.4	125.9	129.7	133.5	137.2	141.0	137.2
55°	109.4	109.9	113.2	116.3	119.6	122.8	125.7	128.7	131.6	134.6	130.6
57.5°	103.8	104.5	108.0	111.3	114.8	118.1	119.8	121.7	123.4	125.2	122.6
60°	98.6	99.7	104.2	108.7	113.0	117.5	116.2	114.8	113.2	111.8	111.6
62.5°	93.2	94.5	98.6	102.8	106.8	110.9	108.9	106.8	104.5	102.4	103.3
65°	86.5	87.7	89.6	91.5	93.2	95.1	95.0	95.0	94.8	94.6	96.4
67.5°	78.8	79.7	80.9	81.9	83.2	84.2	84.9	85.8	86.5	87.2	89.2
70°	70.7	71.5	72.7	73.8	75.0	76.0	76.9	77.8	78.5	79.3	81.4
72.5°	62.3	63.2	64.4	65.6	66.7	67.9	68.6	69.3	69.8	70.5	72.2
75°	53.5	54.5	55.7	56.8	58.0	59.0	59.6	60.1	60.6	61.1	62.7
77.5°	44.4	45.7	46.9	48.1	49.3	50.5	50.7	50.9	51.0	51.2	52.6
80°	34.9	36.5	37.7	38.9	40.1	41.3	41.3	41.3	41.3	41.3	42.0
82.5°	24.8	26.2	27.6	28.8	30.2	31.4	31.4	31.3	31.3	31.1	31.1
85°	14.2	15.5	16.3	17.4	18.2	19.1	19.1	19.1	18.9	18.9	18.6
87.5°	2.3	3.0	3.3	3.8	4.2	4.5	4.3	4.3	4.2	4.0	3.5
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: P596862
 CATALOG NUMBER: MSA-SA1B-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: P596862
 CATALOG NUMBER: MSA-SA1B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	399.9	404.2	408.5	407.8	407.1	406.4	405.8	408.4	410.8	413.4	415.8
5°	406.8	409.4	411.8	413.7	415.7	417.6	419.5	428.3	437.0	445.9	454.5
7.5°	364.3	363.4	362.7	370.9	379.2	387.4	395.5	406.8	418.1	429.4	440.7
10°	346.0	347.9	349.8	353.1	356.6	359.9	363.2	374.3	385.4	396.6	407.7
12.5°	364.1	374.8	385.4	388.0	390.8	393.4	396.0	398.3	400.5	402.6	404.9
15°	334.9	346.7	358.5	365.3	372.1	378.7	385.4	402.5	419.3	436.3	453.2
17.5°	289.6	303.1	316.5	333.2	349.8	366.5	383.2	398.8	414.4	429.9	445.5
20°	244.5	262.2	280.1	298.3	316.3	334.6	352.6	367.9	383.2	398.3	413.6
22.5°	201.4	216.0	230.4	252.6	274.7	296.9	318.9	347.4	375.7	404.2	432.5
25°	180.6	192.0	203.3	226.2	249.1	271.9	294.8	331.8	368.6	405.6	442.4
27.5°	173.3	177.3	181.3	202.1	222.8	243.6	264.3	304.2	344.1	383.9	423.8
30°	171.0	172.4	173.8	190.1	206.4	222.8	239.1	278.5	318.1	357.5	396.9
32.5°	144.3	147.4	150.4	166.3	182.1	198.1	213.9	253.7	293.2	333.0	372.6
35°	132.3	135.8	139.2	154.9	170.5	185.9	201.6	243.4	285.4	327.3	369.1
37.5°	129.9	132.5	135.1	152.8	170.5	188.2	205.9	248.3	290.6	333.0	375.4
40°	128.7	130.6	132.5	149.7	167.0	184.2	201.4	245.8	290.1	334.6	378.8
42.5°	130.2	132.5	134.6	150.2	165.6	181.3	196.7	242.7	288.6	334.6	380.4
45°	131.6	134.0	136.3	150.9	165.5	180.0	194.6	243.8	292.7	341.9	390.8
47.5°	134.9	135.4	135.8	148.4	160.9	173.6	186.1	236.1	286.1	336.0	386.0
50°	137.7	135.1	132.3	145.5	158.5	171.7	184.7	232.1	279.5	326.8	374.2
52.5°	133.3	129.3	125.5	139.8	154.0	168.1	182.3	229.7	277.3	324.7	372.1
55°	126.7	122.8	118.8	133.2	147.6	162.0	176.4	223.6	271.0	318.2	365.5
57.5°	120.1	117.5	114.9	126.7	138.7	150.5	162.3	213.6	264.6	315.8	366.9
60°	111.5	111.1	110.9	120.1	129.5	138.7	147.9	198.1	248.1	298.3	348.3
62.5°	104.0	104.9	105.6	113.0	120.5	127.8	135.3	183.7	232.3	280.7	329.2
65°	98.3	100.0	101.7	110.2	118.8	127.1	135.6	176.2	216.9	257.5	298.1
67.5°	91.3	93.4	95.5	106.6	117.7	128.8	139.9	173.4	207.0	240.5	274.0
70°	83.3	85.4	87.3	101.6	115.6	129.9	143.9	173.6	203.5	233.2	262.9
72.5°	74.0	75.7	77.4	92.7	108.0	123.3	138.6	163.7	188.9	213.9	239.1
75°	64.4	66.0	67.5	80.7	93.9	107.1	120.3	139.8	159.0	178.5	197.8
77.5°	53.8	55.2	56.4	65.3	74.1	83.0	91.8	106.8	121.5	136.5	151.2
80°	42.7	43.4	44.1	49.3	54.3	59.6	64.6	74.5	84.4	94.1	104.0
82.5°	31.3	31.3	31.3	34.6	38.0	41.3	44.6	49.7	54.5	59.6	64.4
85°	18.2	17.7	17.4	19.6	21.9	24.1	26.4	28.5	30.6	32.6	34.7
87.5°	3.0	2.3	1.7	3.1	4.5	5.9	7.3	8.0	8.9	9.5	10.2
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



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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



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CATALOG NUMBER: MSA-SA1B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	409.9	404.2	398.3	392.4	401.1	409.7	418.4	427.1	450.2	463.9	464.8
5°	461.8	469.1	476.4	483.7	491.0	498.3	505.4	512.7	550.2	573.3	577.6
7.5°	452.6	464.8	476.8	488.7	509.4	530.1	550.7	571.4	603.2	626.1	641.2
10°	422.6	437.5	452.5	467.4	491.9	516.5	541.0	565.5	599.2	629.4	643.8
12.5°	428.7	452.5	476.1	499.9	521.0	542.4	563.6	584.8	608.0	619.5	645.7
15°	469.6	486.1	502.6	519.1	551.1	582.8	614.8	646.6	659.8	686.0	709.6
17.5°	475.9	506.1	536.5	566.7	605.8	644.8	683.9	723.0	747.4	781.3	809.8
20°	456.5	499.2	542.0	584.8	635.1	685.6	736.0	786.3	817.4	845.9	890.0
22.5°	479.7	526.9	574.0	621.2	688.1	754.7	821.6	888.2	953.2	1016.7	1046.6
25°	505.4	568.6	631.6	694.7	778.2	861.5	945.0	1028.4	1111.9	1171.4	1205.8
27.5°	487.4	550.7	614.3	677.6	781.0	884.4	987.7	1091.0	1180.5	1252.2	1281.7
30°	474.7	552.5	630.2	708.0	829.2	950.4	1071.6	1192.8	1275.4	1355.5	1398.9
32.5°	472.4	572.3	671.9	771.7	912.9	1053.9	1195.0	1336.0	1390.9	1461.9	1520.4
35°	478.7	588.4	698.0	807.5	969.3	1131.1	1292.8	1454.6	1532.6	1602.9	1654.1
37.5°	497.8	620.2	742.4	864.8	1059.8	1254.9	1449.9	1644.9	1775.6	1904.3	1927.2
40°	508.5	638.4	768.1	897.8	1124.5	1351.3	1578.0	1804.8	1955.2	2096.3	2105.9
42.5°	521.2	662.0	802.7	943.5	1194.9	1446.4	1697.8	1949.3	2135.4	2287.1	2291.6
45°	535.8	680.6	825.6	970.4	1232.9	1495.2	1757.7	2020.1	2245.1	2429.5	2384.5
47.5°	541.5	697.3	852.8	1008.4	1288.3	1568.0	1847.9	2127.6	2329.5	2497.2	2454.1
50°	543.8	713.6	883.2	1052.8	1342.8	1632.9	1922.9	2212.8	2418.2	2581.8	2515.8
52.5°	557.8	743.6	929.4	1115.2	1417.3	1719.4	2021.5	2323.6	2525.7	2682.8	2600.9
55°	576.8	788.1	999.2	1210.5	1523.2	1835.7	2148.4	2460.9	2663.7	2809.9	2708.3
57.5°	594.3	821.9	1049.4	1276.8	1600.8	1924.9	2248.9	2572.9	2778.3	2922.9	2824.5
60°	585.8	823.3	1060.8	1298.3	1616.8	1935.0	2253.4	2571.7	2804.9	2978.3	2928.0
62.5°	560.1	791.0	1021.8	1252.7	1555.0	1857.1	2159.3	2461.4	2734.4	2956.8	2954.5
65°	510.6	723.1	935.5	1148.0	1427.7	1707.6	1987.3	2267.0	2588.7	2858.9	2876.4
67.5°	450.4	626.8	803.2	979.6	1243.0	1506.3	1769.7	2033.1	2377.1	2675.2	2690.3
70°	392.0	521.4	650.6	779.7	1011.0	1242.3	1473.4	1704.6	2052.0	2353.6	2367.5
72.5°	323.6	408.2	492.6	577.1	764.5	951.8	1139.0	1326.3	1631.4	1863.3	1941.6
75°	247.9	298.1	348.3	398.5	550.0	701.6	853.0	1004.6	1207.4	1378.6	1466.8
77.5°	177.3	203.3	229.4	255.4	384.2	513.1	641.7	770.5	877.1	974.2	1033.7
80°	116.3	128.5	140.8	153.0	260.1	367.2	474.2	581.3	646.2	698.3	728.3
82.5°	70.5	76.6	82.5	88.5	175.4	262.2	348.8	435.6	472.8	497.6	524.3
85°	38.0	41.3	44.6	47.9	103.7	159.2	214.9	270.5	274.1	277.1	316.9
87.5°	11.1	12.2	13.0	13.9	22.9	32.1	41.1	50.2	31.3	19.4	39.9
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



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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: P596862

CATALOG NUMBER: MSA-SA1B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	459.8	457.5	455.2	452.8	450.5	441.0	431.6	422.1	412.5	421.7	430.8
5°	572.6	579.5	586.3	593.3	600.2	600.7	601.1	601.6	601.9	603.7	605.4
7.5°	653.9	666.2	678.3	690.7	703.0	712.5	722.1	731.8	741.4	732.7	724.0
10°	660.8	686.8	712.9	738.9	765.0	769.7	774.2	778.9	783.6	789.8	795.9
12.5°	667.7	699.5	731.1	762.9	794.7	808.6	822.3	836.2	849.9	856.7	863.2
15°	741.2	759.9	778.5	797.3	815.8	825.4	834.8	844.3	853.9	859.6	865.2
17.5°	835.6	842.6	849.4	856.3	863.2	869.7	876.1	882.5	888.9	890.0	891.0
20°	921.8	923.1	924.4	925.8	927.0	913.4	900.1	886.5	873.0	875.4	877.7
22.5°	1050.9	1043.3	1035.8	1028.2	1020.7	995.2	969.9	944.3	919.0	908.0	897.3
25°	1245.4	1225.9	1206.5	1187.1	1167.6	1127.0	1086.5	1045.9	1005.4	981.7	958.0
27.5°	1308.1	1265.7	1223.5	1181.1	1138.8	1108.1	1077.5	1046.8	1016.2	978.5	940.9
30°	1434.8	1368.0	1301.3	1234.5	1167.6	1137.9	1108.2	1078.4	1048.7	1010.1	971.8
32.5°	1547.1	1477.7	1408.2	1338.6	1269.2	1212.9	1156.7	1100.4	1044.2	1018.1	992.1
35°	1677.2	1589.9	1502.5	1415.2	1327.9	1279.6	1231.5	1183.2	1135.1	1095.7	1056.5
37.5°	1866.6	1773.7	1680.8	1587.8	1494.9	1429.6	1364.5	1299.2	1234.1	1212.4	1190.9
40°	2047.2	1937.4	1827.9	1718.2	1608.6	1558.6	1508.6	1458.4	1408.4	1371.8	1335.2
42.5°	2198.4	2089.9	1981.5	1873.0	1764.7	1728.2	1691.9	1655.5	1619.2	1589.0	1558.8
45°	2250.3	2161.8	2073.4	1984.8	1896.3	1883.4	1870.8	1857.9	1845.3	1822.9	1800.5
47.5°	2333.8	2243.5	2153.4	2063.1	1972.9	1977.6	1982.2	1987.1	1991.8	1993.0	1994.0
50°	2383.0	2297.2	2211.6	2125.8	2040.2	2063.0	2085.5	2108.3	2131.0	2182.6	2234.0
52.5°	2454.7	2370.5	2286.4	2202.2	2118.0	2156.6	2194.9	2233.5	2271.8	2344.1	2416.3
55°	2544.6	2464.0	2383.7	2303.1	2222.7	2260.2	2297.5	2335.0	2372.4	2452.8	2533.1
57.5°	2663.9	2577.6	2491.5	2405.2	2319.1	2353.6	2388.0	2422.5	2456.9	2533.3	2609.7
60°	2799.7	2705.9	2612.1	2518.2	2424.5	2434.0	2443.4	2452.9	2462.3	2545.1	2627.8
62.5°	2866.3	2779.5	2692.9	2606.1	2519.3	2492.7	2466.1	2439.4	2412.8	2487.0	2560.9
65°	2808.5	2748.8	2689.2	2629.5	2569.8	2522.9	2476.2	2429.3	2382.4	2428.8	2475.0
67.5°	2624.5	2590.6	2556.9	2523.1	2489.2	2410.6	2331.9	2253.1	2174.4	2177.6	2180.5
70°	2326.2	2317.2	2308.3	2299.3	2290.2	2172.0	2053.9	1935.7	1817.5	1799.4	1781.4
72.5°	1948.2	1954.1	1959.8	1965.7	1971.6	1844.6	1717.5	1590.4	1463.3	1433.2	1403.2
75°	1508.9	1541.6	1574.2	1607.0	1639.7	1518.1	1396.6	1274.9	1153.4	1116.4	1079.4
77.5°	1066.2	1127.2	1187.9	1248.9	1309.8	1199.9	1090.2	980.3	870.4	846.4	822.4
80°	743.4	773.3	803.2	833.0	862.9	807.7	752.5	697.3	642.1	648.7	655.1
82.5°	541.5	548.5	555.2	562.2	569.1	546.6	524.0	501.2	478.7	495.9	513.1
85°	346.9	371.7	396.4	421.2	445.9	420.9	395.9	370.7	345.7	357.1	368.6
87.5°	77.6	122.8	167.9	213.2	258.3	234.0	209.9	185.6	161.3	150.4	139.6
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



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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



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CATALOG NUMBER: MSA-SA1B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	440.0	449.2	446.4	443.8	441.0	438.2	443.3	448.3	453.5	458.5	456.8
5°	607.3	609.1	592.6	576.3	559.8	543.3	553.5	563.8	574.0	584.2	580.6
7.5°	715.3	706.6	697.1	687.5	677.8	668.3	666.2	664.1	661.8	659.8	657.0
10°	802.1	808.2	802.0	795.9	789.6	783.4	768.8	754.2	739.5	724.9	718.8
12.5°	870.0	876.8	878.4	879.7	881.3	882.9	866.5	850.4	834.1	817.8	803.0
15°	870.9	876.6	881.7	886.5	891.5	896.4	886.3	876.4	866.4	856.3	851.6
17.5°	892.2	893.3	889.1	885.1	881.0	877.0	873.0	869.2	865.2	861.3	853.9
20°	880.1	882.5	882.0	881.5	880.8	880.3	880.6	880.8	881.1	881.3	877.1
22.5°	886.3	875.4	877.7	879.7	882.0	884.1	890.3	896.6	903.0	909.3	925.9
25°	934.3	910.5	906.8	903.4	899.7	896.2	912.6	928.7	945.0	961.3	988.4
27.5°	903.0	865.3	857.0	848.7	840.3	832.0	856.8	881.5	906.3	931.1	958.7
30°	933.2	894.8	876.4	858.0	839.5	821.1	844.8	868.5	892.2	915.9	946.4
32.5°	966.0	940.0	927.7	915.5	903.2	891.0	892.9	894.8	896.8	898.7	941.7
35°	1017.1	977.7	965.5	953.4	941.2	929.1	949.4	969.5	989.8	1010.0	1046.4
37.5°	1169.2	1147.5	1125.6	1103.7	1081.7	1059.8	1071.8	1083.7	1095.7	1107.7	1142.1
40°	1298.5	1261.9	1258.2	1254.8	1251.1	1247.5	1248.5	1249.4	1250.4	1251.5	1280.8
42.5°	1528.4	1498.2	1479.6	1461.0	1442.5	1423.9	1422.7	1421.4	1420.1	1418.8	1440.9
45°	1777.9	1755.5	1741.6	1727.7	1713.6	1699.8	1677.7	1655.7	1633.4	1611.4	1630.7
47.5°	1995.3	1996.5	2021.7	2046.7	2071.8	2097.0	2059.3	2021.7	1984.0	1946.3	1921.5
50°	2285.6	2336.9	2343.0	2348.9	2355.0	2361.1	2297.2	2233.5	2169.6	2105.7	2079.6
52.5°	2488.7	2560.9	2551.5	2542.3	2533.0	2523.6	2486.6	2449.8	2412.8	2375.8	2319.1
55°	2613.7	2694.1	2687.0	2680.0	2672.9	2665.8	2638.9	2612.0	2585.1	2558.1	2495.8
57.5°	2686.1	2762.5	2764.6	2766.7	2768.7	2770.8	2763.7	2756.6	2749.5	2742.4	2661.3
60°	2710.6	2793.4	2794.3	2795.0	2795.8	2796.5	2785.2	2774.0	2762.5	2751.2	2698.3
62.5°	2635.1	2709.0	2712.3	2715.4	2718.7	2722.0	2714.2	2706.4	2698.6	2690.8	2651.6
65°	2521.3	2567.7	2568.6	2569.3	2570.1	2571.0	2551.2	2531.6	2511.8	2492.0	2482.6
67.5°	2183.6	2186.8	2205.2	2223.6	2242.0	2260.4	2261.9	2263.5	2265.2	2266.8	2253.3
70°	1763.3	1745.2	1765.2	1785.2	1805.1	1825.1	1833.6	1842.1	1850.8	1859.3	1865.6
72.5°	1373.0	1343.0	1357.7	1372.5	1387.4	1402.2	1389.5	1376.8	1364.1	1351.5	1391.6
75°	1042.4	1005.4	1003.5	1001.8	999.9	998.2	991.7	985.3	978.7	972.3	1009.8
77.5°	798.3	774.4	775.6	776.6	777.8	778.9	772.3	765.8	759.2	752.7	767.1
80°	661.7	668.1	668.3	668.4	668.6	668.8	662.5	656.5	650.2	644.0	633.5
82.5°	530.4	547.6	547.4	547.4	547.3	547.1	546.7	546.4	545.9	545.5	528.5
85°	380.1	391.5	379.7	367.9	356.1	344.3	353.0	361.7	370.5	379.2	372.1
87.5°	128.7	117.9	103.8	89.9	75.9	61.8	76.9	92.0	107.3	122.4	131.1
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):

	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



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CATALOG NUMBER: MSA-SA1B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3	377.3
2.5°	455.2	453.5	451.9	441.0	429.9	418.9	407.8	428.0	448.3	468.4	488.6
5°	577.1	573.5	570.0	569.1	568.3	567.2	566.4	576.6	586.8	596.9	607.2
7.5°	654.2	651.4	648.7	641.4	634.2	626.9	619.7	625.9	632.0	638.2	644.3
10°	712.9	706.8	700.7	684.9	669.3	653.5	637.7	633.0	628.3	623.6	619.0
12.5°	788.2	773.3	758.6	740.7	722.6	704.7	686.7	684.2	681.8	679.6	677.1
15°	847.1	842.4	837.7	823.5	809.3	795.0	780.8	761.7	742.4	723.3	704.2
17.5°	846.6	839.1	831.8	850.9	869.8	888.9	907.9	887.6	867.1	846.8	826.4
20°	873.0	868.6	864.5	899.7	934.8	970.0	1005.1	994.0	982.7	971.6	960.3
22.5°	942.4	959.1	975.6	1005.8	1035.8	1066.0	1096.1	1108.7	1121.4	1134.1	1146.8
25°	1015.3	1042.4	1069.5	1114.5	1159.3	1204.2	1249.2	1258.2	1267.3	1276.3	1285.3
27.5°	986.2	1013.8	1041.4	1075.4	1109.3	1143.3	1177.2	1216.7	1256.5	1296.1	1335.7
30°	976.8	1007.4	1037.7	1084.4	1131.0	1177.7	1224.4	1278.9	1333.4	1387.8	1442.3
32.5°	984.6	1027.7	1070.7	1133.9	1196.9	1260.1	1323.3	1380.6	1438.1	1495.4	1552.7
35°	1082.7	1119.2	1155.5	1226.1	1296.8	1367.4	1438.1	1505.3	1572.5	1639.5	1706.7
37.5°	1176.3	1210.7	1245.0	1317.3	1389.3	1461.5	1533.8	1639.9	1746.1	1852.2	1958.3
40°	1310.0	1339.3	1368.5	1430.3	1492.1	1553.9	1615.7	1743.7	1871.6	1999.6	2127.6
42.5°	1462.8	1484.8	1506.7	1570.8	1634.8	1698.9	1763.0	1902.2	2041.6	2180.9	2320.1
45°	1649.8	1669.0	1688.3	1732.4	1776.5	1820.8	1864.9	2008.5	2152.0	2295.6	2439.2
47.5°	1896.6	1871.8	1847.0	1868.7	1890.4	1912.1	1933.8	2075.8	2217.8	2359.7	2501.7
50°	2053.6	2027.6	2001.5	2003.4	2005.2	2007.1	2009.0	2141.5	2273.9	2406.2	2538.7
52.5°	2262.3	2205.3	2148.6	2148.0	2147.5	2146.8	2146.3	2261.8	2377.4	2492.9	2608.3
55°	2433.5	2371.2	2308.8	2296.7	2284.5	2272.2	2260.0	2374.3	2488.3	2602.6	2716.7
57.5°	2580.2	2498.9	2417.9	2398.8	2379.7	2360.6	2341.5	2464.6	2587.8	2710.9	2834.0
60°	2645.5	2592.5	2539.7	2516.3	2492.9	2469.4	2446.0	2550.9	2655.7	2760.4	2865.3
62.5°	2612.5	2573.2	2534.2	2539.6	2544.9	2550.3	2555.7	2615.6	2675.7	2735.6	2795.5
65°	2473.4	2464.0	2454.8	2498.2	2541.7	2585.1	2628.5	2629.3	2630.2	2631.1	2631.9
67.5°	2239.7	2226.2	2212.6	2302.9	2393.0	2483.3	2573.6	2530.7	2487.8	2445.1	2402.2
70°	1871.6	1877.9	1884.0	2006.9	2129.6	2252.6	2375.5	2313.3	2251.0	2188.9	2126.5
72.5°	1431.7	1472.0	1512.1	1639.5	1766.9	1894.4	2021.8	1950.8	1879.6	1808.6	1737.4
75°	1047.3	1084.8	1122.3	1248.2	1374.0	1500.1	1626.0	1541.6	1457.2	1373.0	1288.6
77.5°	781.5	796.1	810.5	915.2	1019.7	1124.4	1228.9	1144.2	1059.4	974.9	890.2
80°	623.3	612.9	602.6	660.6	718.6	776.6	834.6	774.5	714.3	654.2	594.1
82.5°	511.7	494.6	477.8	499.3	520.9	542.6	564.1	516.0	467.9	419.8	371.7
85°	365.0	357.8	350.7	357.0	363.0	369.3	375.5	328.7	281.8	235.1	188.2
87.5°	139.6	148.3	157.0	166.9	176.6	186.5	196.2	153.7	111.1	68.8	26.2
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



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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



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CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	377.3	377.3
2.5°	496.9	505.2
5°	607.0	606.8
7.5°	641.5	638.6
10°	611.3	603.7
12.5°	654.6	631.8
15°	681.6	658.9
17.5°	792.2	757.9
20°	919.5	878.5
22.5°	1084.4	1022.1
25°	1210.8	1136.2
27.5°	1291.4	1247.0
30°	1391.4	1340.5
32.5°	1515.2	1477.5
35°	1672.3	1637.8
37.5°	1947.5	1936.6
40°	2114.5	2101.3
42.5°	2320.6	2321.0
45°	2447.0	2454.8
47.5°	2521.5	2541.1
50°	2580.9	2622.9
52.5°	2665.8	2723.3
55°	2793.1	2869.3
57.5°	2899.0	2963.9
60°	2899.0	2932.5
62.5°	2794.6	2793.6
65°	2615.8	2599.5
67.5°	2381.7	2361.3
70°	2094.6	2062.5
72.5°	1697.7	1657.7
75°	1233.9	1179.1
77.5°	864.1	837.9
80°	606.8	619.5
82.5°	389.8	407.8
85°	185.4	182.7
87.5°	21.9	17.5
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

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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)