

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: P596839

Luminaire Tested: **MSA-SA1A-835-U-SLR-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596839
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-SA1A-835-U-SLR-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) 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: 2430 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

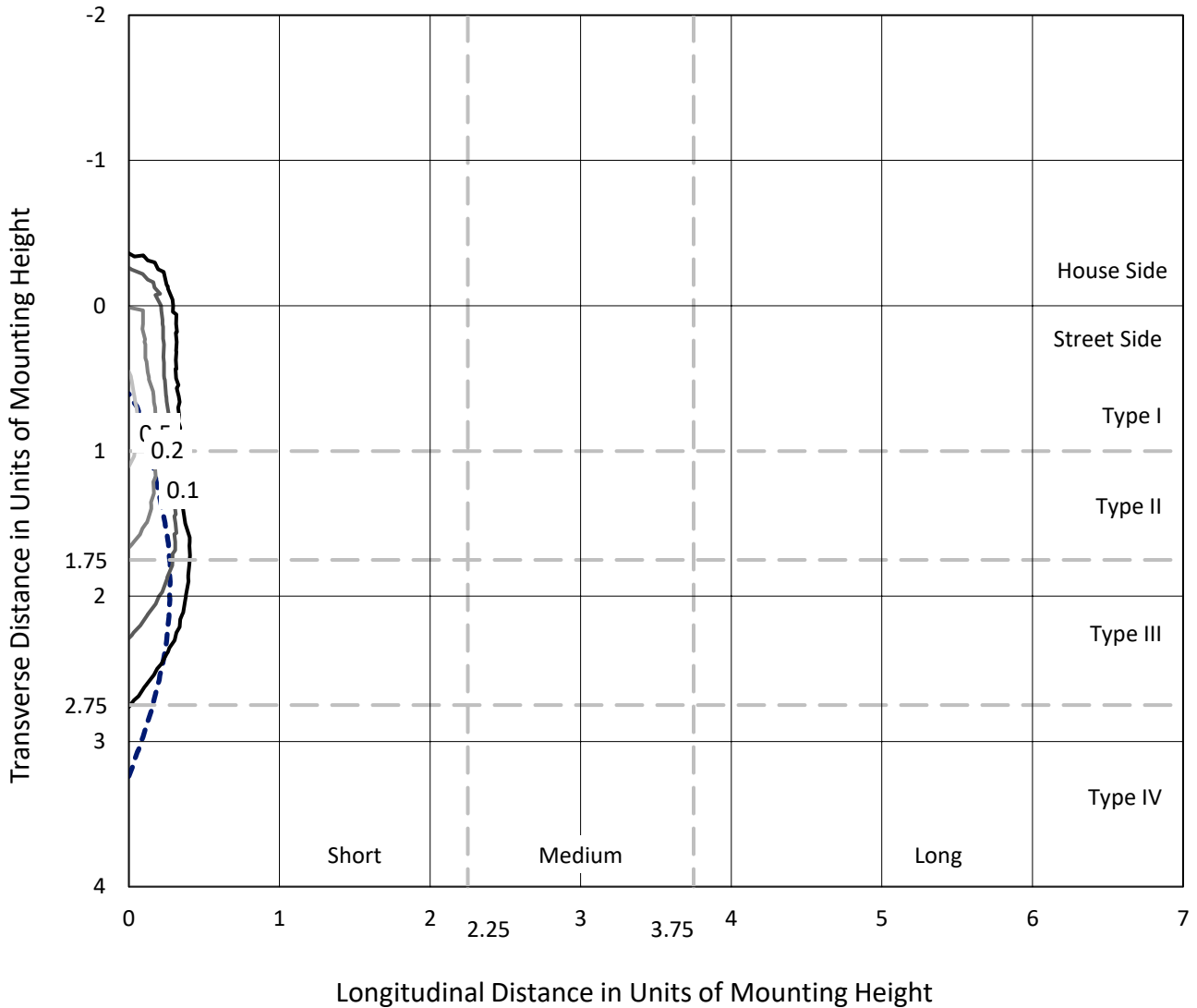
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

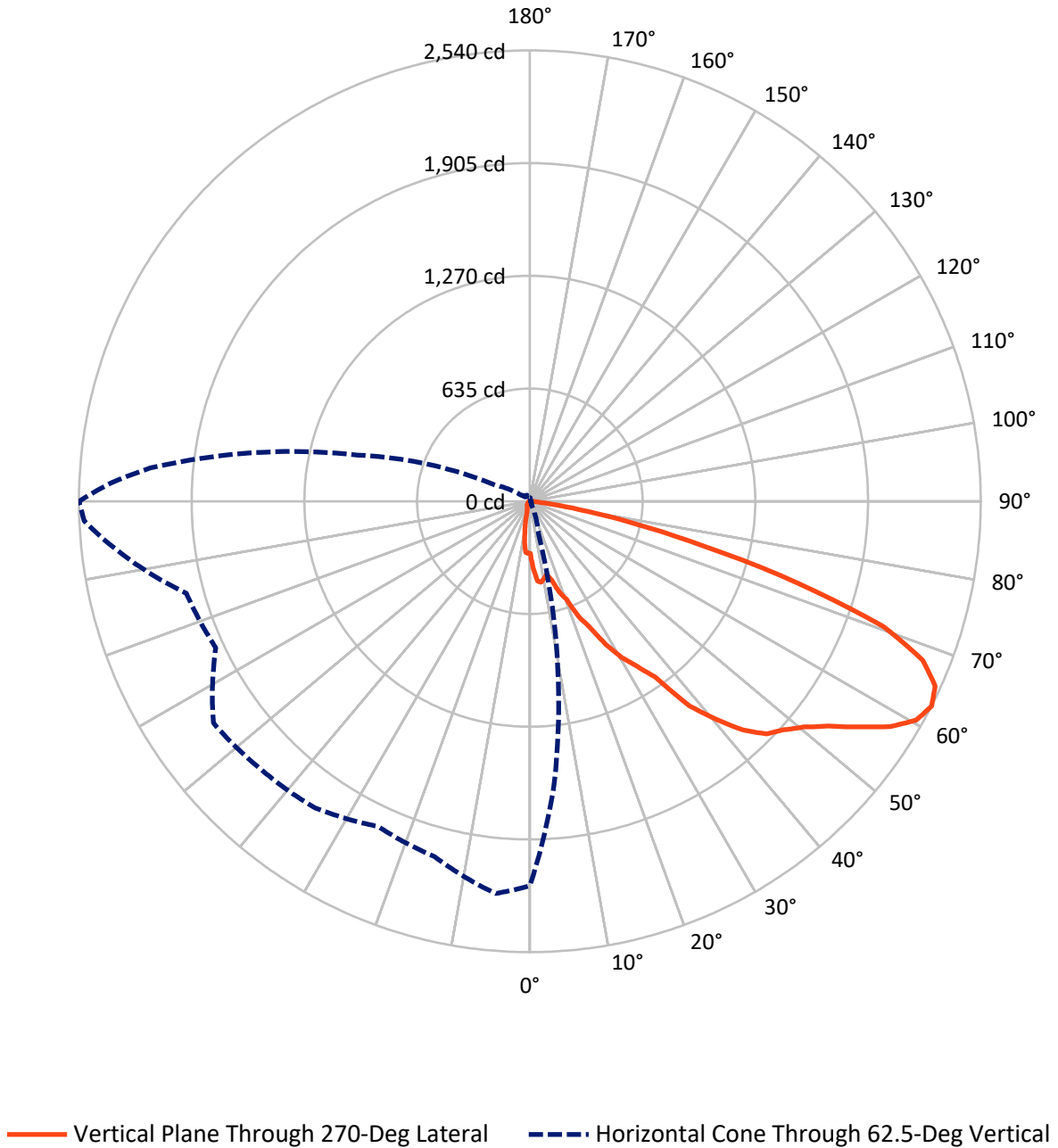
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	405.8	0.0	405.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	2024.2	0.0	2024.2
	% Fixture	83.3	0.0	83.3
Total	Lumens	2430.0	0.0	2430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	1.3
10°-20°	85.5	3.5
20°-30°	138.1	5.7
30°-40°	231.4	9.5
40°-50°	378.2	15.6
50°-60°	559.9	23.0
60°-70°	642.8	26.5
70°-80°	317.8	13.1
80°-90°	43.7	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°	2430.0	100.0
0°-180°	2430.0	100.0

Coefficient of Utilization

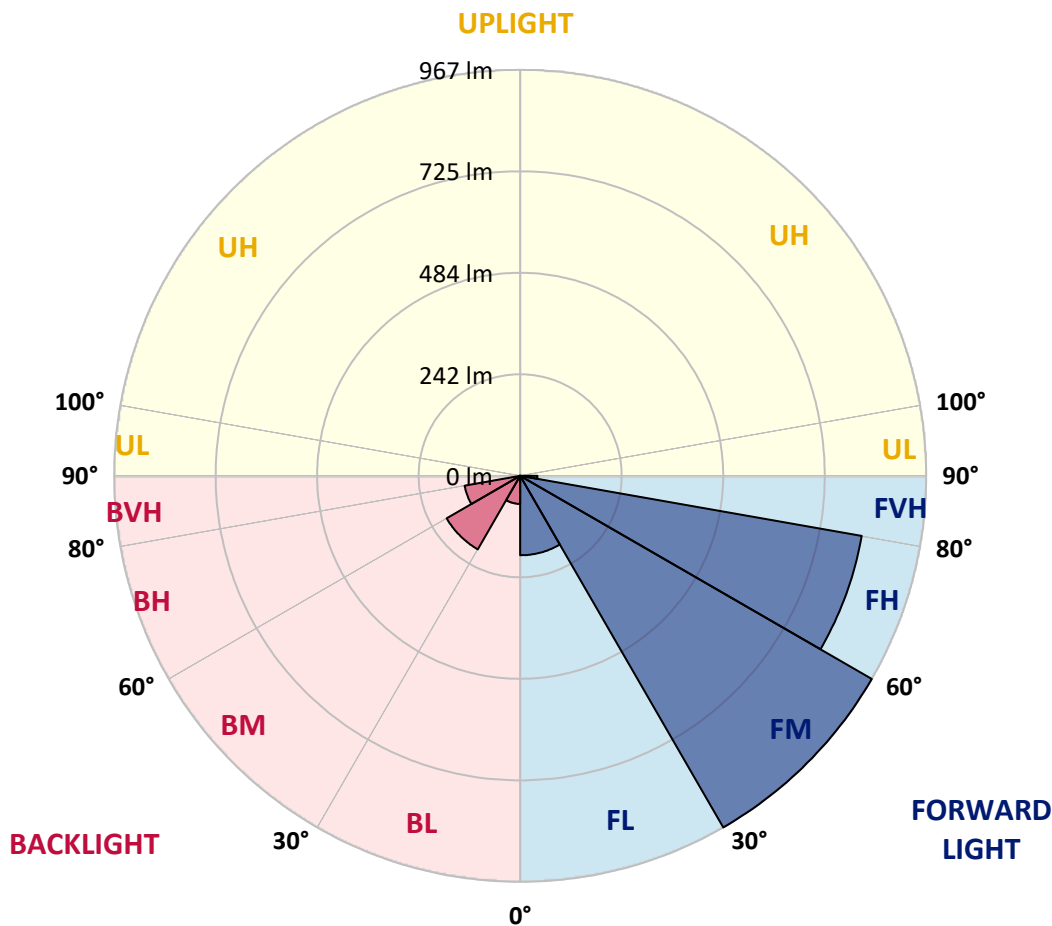


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.3	7.8			
FM (30°-60°)	967.3	39.8			
FH (60°-80°)	826.3	34.0			G1/1800
FVH (80°-90°)	41.3	1.7			G1/100
BL (0°-30°)	67.0	2.8	B0/110		
BM (30°-60°)	202.2	8.3	B0/220		
BH (60°-80°)	134.3	5.5	B1/500		G1/500
BVH (80°-90°)	2.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 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°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	388.3	393.1	397.8	388.8	379.8	370.8	361.8	353.8	345.7	337.6	329.5
5°	499.6	490.8	481.9	469.7	457.5	445.3	433.1	427.5	421.8	416.1	410.4
7.5°	538.4	522.6	506.7	495.9	485.2	474.4	463.6	446.6	429.4	412.4	395.2
10°	507.9	491.2	474.3	464.9	455.4	446.0	436.6	415.4	394.1	372.9	351.6
12.5°	521.9	503.8	485.6	466.3	446.9	427.5	408.1	391.9	375.5	359.3	343.0
15°	531.6	510.9	489.9	467.8	445.6	423.4	401.3	382.2	363.2	344.1	325.0
17.5°	588.6	558.8	529.0	494.9	460.8	426.8	392.7	370.5	348.5	326.3	304.2
20°	661.7	619.5	577.1	530.9	484.8	438.7	392.6	365.0	337.4	309.9	282.3
22.5°	746.7	694.0	641.1	584.1	527.3	470.4	413.5	373.9	334.2	294.6	255.0
25°	832.4	784.7	737.1	660.5	583.9	507.1	430.5	380.2	329.8	279.5	229.1
27.5°	986.9	901.8	816.6	719.0	621.7	524.2	426.6	369.0	311.4	253.6	196.0
30°	1088.1	1022.5	956.9	828.1	699.4	570.6	441.7	368.7	295.7	222.6	149.6
32.5°	1209.0	1113.1	1017.1	877.4	737.6	597.8	458.1	372.3	286.5	200.7	114.8
35°	1344.9	1240.6	1136.3	959.2	782.2	605.0	428.0	344.9	261.8	178.7	95.6
37.5°	1584.9	1410.4	1235.9	1029.5	822.9	616.5	410.0	327.0	243.9	161.0	77.8
40°	1721.2	1554.6	1387.9	1130.0	872.1	614.2	356.3	282.6	209.0	135.3	61.6
42.5°	1898.5	1687.1	1475.6	1187.4	899.1	610.9	322.6	254.5	186.3	118.0	49.9
45°	2003.7	1764.2	1524.7	1212.3	899.9	587.6	275.2	216.2	157.2	98.2	39.2
47.5°	2070.0	1829.8	1589.6	1254.3	919.1	583.7	248.4	194.1	139.8	85.5	31.2
50°	2103.7	1862.8	1621.8	1277.1	932.5	587.7	243.1	189.1	134.9	80.9	26.7
52.5°	2138.7	1906.4	1674.0	1316.7	959.5	602.3	245.0	189.9	134.9	79.8	24.7
55°	2209.5	1980.4	1751.1	1373.5	995.9	618.3	240.7	186.4	132.1	77.7	23.4
57.5°	2296.5	2051.6	1806.5	1415.1	1023.6	632.2	240.7	186.2	131.6	76.9	22.3
60°	2280.0	2014.2	1748.2	1368.4	988.6	608.6	228.8	176.9	125.1	73.1	21.2
62.5°	2166.8	1878.3	1589.6	1238.6	887.5	536.5	185.3	143.9	102.5	60.9	19.5
65°	2033.9	1727.6	1421.2	1098.2	775.0	452.0	128.8	101.1	73.3	45.6	17.7
67.5°	1873.7	1547.1	1220.5	933.2	646.0	358.8	71.5	57.6	43.8	29.8	15.9
70°	1595.9	1258.7	921.4	700.6	480.0	259.2	38.4	32.4	26.5	20.5	14.5
72.5°	1198.0	889.1	580.3	440.8	301.4	161.9	22.4	20.2	17.9	15.7	13.3
75°	815.2	583.7	352.3	268.2	184.2	100.1	16.1	15.0	13.7	12.6	11.4
77.5°	554.2	400.9	247.5	188.9	130.3	71.8	13.2	12.5	11.8	10.9	10.3
80°	346.0	236.9	127.7	98.3	68.8	39.5	10.0	9.6	9.1	8.6	8.2
82.5°	242.0	144.8	47.5	37.1	26.7	16.2	5.8	6.0	6.1	6.1	6.2
85°	101.5	54.9	8.2	6.9	5.7	4.4	3.2	3.5	3.9	4.2	4.4
87.5°	1.8	1.0	0.0	0.3	0.7	1.0	1.2	1.7	1.9	2.4	2.6
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):

	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°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	331.6	333.7	335.6	337.7	336.0	334.5	332.9	331.2	328.7	326.3	323.9
5°	403.5	396.6	389.7	382.7	372.2	361.7	351.0	340.5	339.2	338.0	336.6
7.5°	379.0	362.8	346.4	330.2	315.0	299.8	284.5	269.3	264.6	260.0	255.3
10°	339.1	326.6	314.0	301.6	290.6	279.5	268.6	257.5	246.0	234.5	222.9
12.5°	329.9	316.9	303.8	290.7	280.8	270.8	260.8	250.9	238.0	225.1	212.2
15°	310.8	296.7	282.6	268.4	255.1	241.9	228.4	215.1	199.6	184.1	168.6
17.5°	287.4	270.8	254.0	237.3	219.8	202.4	184.9	167.5	149.6	131.9	114.0
20°	259.6	236.9	214.0	191.3	169.7	148.1	126.3	104.7	93.5	82.4	71.2
22.5°	225.6	196.1	166.8	137.3	119.5	101.7	83.9	66.1	61.2	56.4	51.5
25°	195.7	162.3	129.0	95.6	84.4	73.1	61.9	50.7	48.5	46.1	43.9
27.5°	164.6	133.3	101.8	70.4	64.0	57.5	51.1	44.6	43.1	41.7	40.2
30°	126.2	102.8	79.2	55.8	51.7	47.5	43.2	39.1	38.4	37.5	36.8
32.5°	97.8	80.6	63.6	46.4	44.0	41.7	39.3	37.0	35.9	34.8	33.5
35°	81.7	68.0	54.2	40.3	38.6	36.8	35.2	33.4	32.3	31.0	29.9
37.5°	67.7	57.8	47.7	37.5	35.7	33.9	32.0	30.2	29.4	28.5	27.7
40°	55.8	50.0	44.2	38.4	35.7	33.1	30.5	27.8	27.1	26.5	25.8
42.5°	46.1	42.4	38.5	34.8	32.8	31.0	29.1	27.1	26.2	25.1	24.1
45°	37.3	35.2	33.2	31.2	31.3	31.4	31.4	31.6	29.1	26.5	24.0
47.5°	30.2	29.2	28.1	27.1	28.3	29.4	30.3	31.4	28.8	26.2	23.4
50°	25.9	25.2	24.4	23.5	24.7	25.9	27.0	28.1	27.0	26.0	24.9
52.5°	23.7	22.7	21.7	20.8	21.2	21.7	22.2	22.6	22.6	22.6	22.6
55°	22.3	21.3	20.2	19.1	18.7	18.1	17.7	17.2	16.5	15.9	15.2
57.5°	21.2	20.1	18.8	17.7	17.0	16.2	15.5	14.7	14.0	13.2	12.5
60°	20.1	19.0	17.7	16.6	15.9	15.2	14.4	13.7	12.9	12.2	11.4
62.5°	18.6	17.6	16.6	15.7	15.0	14.4	13.7	13.0	12.2	11.4	10.4
65°	16.9	16.2	15.4	14.5	13.9	13.2	12.5	11.8	10.9	10.3	9.4
67.5°	15.4	14.7	14.1	13.4	12.6	11.9	11.1	10.3	9.7	9.1	8.4
70°	14.1	13.6	13.2	12.6	11.8	11.1	10.3	9.4	9.0	8.4	8.0
72.5°	12.9	12.5	11.9	11.5	10.8	10.1	9.4	8.7	8.3	7.9	7.5
75°	11.1	10.8	10.5	10.3	9.6	8.9	8.0	7.3	7.2	7.1	6.9
77.5°	10.0	9.8	9.6	9.3	8.6	7.9	7.2	6.5	6.6	6.8	6.8
80°	8.2	8.2	8.0	8.0	7.5	6.9	6.2	5.7	6.0	6.4	6.6
82.5°	6.2	6.2	6.2	6.2	5.7	5.1	4.6	4.0	4.4	4.7	5.1
85°	4.3	4.2	4.0	3.9	3.5	3.2	2.8	2.4	2.9	3.3	3.9
87.5°	2.6	2.8	2.8	2.8	2.5	2.1	1.8	1.4	1.7	1.8	2.1
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):

	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: P596839
 CATALOG NUMBER: MSA-SA1A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	321.4	317.2	313.0	308.8	304.6	294.9	285.2	275.5	265.8	273.0	280.1
5°	335.4	327.3	319.1	311.1	302.9	299.3	295.9	292.3	288.7	289.2	289.9
7.5°	250.6	245.3	240.1	234.6	229.4	228.3	227.3	226.2	225.1	227.4	229.7
10°	211.4	204.0	196.6	189.2	181.7	177.7	173.7	169.7	165.7	165.3	164.7
12.5°	199.3	188.1	177.0	165.8	154.6	145.9	137.1	128.4	119.7	120.4	121.1
15°	153.1	141.8	130.8	119.5	108.3	101.3	94.1	87.0	79.8	77.7	75.6
17.5°	96.1	87.8	79.5	71.1	62.7	60.4	58.2	55.8	53.5	52.8	52.1
20°	60.0	56.4	52.8	49.0	45.4	44.9	44.3	43.8	43.2	43.6	44.0
22.5°	46.7	45.2	43.5	42.0	40.3	39.8	39.2	38.6	38.1	38.5	38.8
25°	41.6	40.4	39.3	38.2	37.1	36.6	35.9	35.3	34.6	34.9	35.3
27.5°	38.6	37.7	36.7	35.7	34.8	33.8	33.0	32.0	31.0	31.6	32.0
30°	36.0	34.9	33.9	32.8	31.7	30.8	29.8	28.7	27.7	28.3	28.8
32.5°	32.4	31.4	30.3	29.4	28.3	27.7	27.1	26.5	25.9	26.3	26.6
35°	28.7	27.8	27.1	26.3	25.5	24.9	24.5	24.0	23.4	23.5	23.8
37.5°	26.9	25.9	24.9	24.0	23.0	22.7	22.4	22.0	21.7	21.7	21.7
40°	25.1	24.1	23.1	22.0	21.1	20.6	20.2	19.8	19.4	19.4	19.4
42.5°	23.0	22.0	21.1	20.1	19.1	18.7	18.1	17.7	17.2	17.2	17.2
45°	21.3	20.4	19.5	18.6	17.6	16.9	16.2	15.4	14.7	14.5	14.4
47.5°	20.8	19.4	18.0	16.6	15.2	14.5	13.9	13.0	12.3	12.2	12.1
50°	23.8	21.1	18.3	15.5	12.7	12.2	11.6	11.1	10.5	10.3	10.1
52.5°	22.6	19.7	16.8	13.9	10.9	10.5	10.1	9.7	9.3	9.0	8.7
55°	14.5	13.3	12.2	10.9	9.7	9.4	9.1	8.7	8.4	8.2	7.9
57.5°	11.6	10.9	10.4	9.7	9.0	8.7	8.4	8.0	7.8	7.3	7.1
60°	10.5	10.0	9.4	8.9	8.3	8.0	7.8	7.5	7.2	6.8	6.5
62.5°	9.6	9.1	8.7	8.3	7.9	7.6	7.3	7.1	6.8	6.4	6.0
65°	8.6	8.3	8.0	7.8	7.5	7.2	6.9	6.5	6.2	5.8	5.4
67.5°	7.9	7.8	7.6	7.5	7.3	7.1	6.6	6.4	6.0	5.5	5.0
70°	7.5	7.5	7.5	7.3	7.3	7.1	6.6	6.4	6.0	5.4	5.0
72.5°	7.1	7.2	7.3	7.3	7.5	7.1	6.6	6.2	5.8	5.3	4.8
75°	6.8	6.9	7.1	7.1	7.2	6.9	6.6	6.2	6.0	5.4	4.8
77.5°	6.9	7.1	7.1	7.2	7.2	6.9	6.6	6.2	6.0	5.3	4.6
80°	6.9	6.8	6.6	6.4	6.2	5.7	5.1	4.4	3.9	3.0	2.4
82.5°	5.4	5.1	5.0	4.7	4.4	3.9	3.3	2.8	2.2	1.7	1.1
85°	4.3	4.0	3.9	3.6	3.3	2.9	2.4	1.9	1.4	1.1	0.7
87.5°	2.2	2.1	1.8	1.7	1.4	1.1	0.7	0.4	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: P596839
 CATALOG NUMBER: MSA-SA1A-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: P596839
 CATALOG NUMBER: MSA-SA1A-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°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	287.3	294.4	293.4	292.4	297.0	301.6	298.2	295.0	291.7	288.4	281.5
5°	290.5	291.0	290.1	288.9	289.1	289.2	287.0	284.8	282.6	280.4	279.9
7.5°	232.0	234.2	237.3	240.2	240.3	240.3	238.7	237.0	235.2	233.5	234.4
10°	164.3	163.7	164.6	165.4	165.3	165.0	169.4	173.8	178.1	182.6	179.4
12.5°	121.6	122.3	118.8	115.4	116.6	117.7	118.4	119.1	119.8	120.5	122.4
15°	73.6	71.5	69.0	66.5	67.7	68.8	70.1	71.2	72.4	73.6	74.8
17.5°	51.3	50.6	49.5	48.2	48.3	48.5	48.6	48.8	48.8	48.9	49.2
20°	44.5	44.9	44.0	43.1	42.8	42.4	42.1	41.8	41.4	41.1	40.7
22.5°	39.2	39.5	39.6	39.6	39.1	38.4	37.8	37.4	36.8	36.3	36.0
25°	35.6	35.9	35.6	35.2	34.9	34.6	34.4	33.9	33.7	33.2	33.1
27.5°	32.6	33.0	33.0	32.8	32.6	32.1	31.4	30.9	30.2	29.5	29.6
30°	29.4	29.9	29.9	29.8	29.6	29.5	28.8	28.1	27.4	26.7	27.0
32.5°	27.0	27.3	27.1	27.0	27.0	26.9	26.3	25.9	25.3	24.8	24.8
35°	24.0	24.1	24.1	24.1	24.1	24.0	23.5	23.1	22.7	22.3	22.4
37.5°	21.7	21.7	22.2	22.4	22.2	21.9	21.6	21.2	20.9	20.5	20.5
40°	19.3	19.3	19.7	19.9	19.7	19.4	19.3	19.0	18.8	18.6	18.6
42.5°	17.0	17.0	17.5	17.7	17.7	17.6	17.3	17.0	16.8	16.5	16.6
45°	14.3	14.1	14.8	15.4	15.1	14.8	14.8	14.7	14.7	14.5	14.7
47.5°	11.8	11.6	12.2	12.7	12.6	12.3	12.3	12.3	12.3	12.3	12.5
50°	9.8	9.6	10.1	10.5	10.4	10.1	10.1	10.3	10.3	10.3	10.4
52.5°	8.4	8.2	8.6	8.9	8.7	8.6	8.6	8.7	8.7	8.7	8.9
55°	7.5	7.2	7.6	7.9	7.8	7.5	7.6	7.6	7.8	7.8	7.8
57.5°	6.6	6.2	6.5	6.8	6.8	6.6	6.8	6.8	6.9	6.9	6.9
60°	6.1	5.7	6.0	6.1	6.1	6.0	6.1	6.1	6.2	6.2	6.2
62.5°	5.4	5.0	5.3	5.4	5.4	5.3	5.4	5.4	5.5	5.5	5.5
65°	4.8	4.4	4.6	4.7	4.7	4.7	4.8	4.8	5.0	5.0	5.0
67.5°	4.6	4.0	4.2	4.3	4.3	4.3	4.4	4.4	4.6	4.6	4.7
70°	4.4	3.9	4.0	4.0	4.2	4.2	4.2	4.3	4.3	4.3	4.3
72.5°	4.3	3.7	3.7	3.7	3.9	3.9	3.9	4.0	4.0	4.0	4.0
75°	4.3	3.7	3.6	3.5	3.6	3.6	3.6	3.7	3.7	3.7	3.7
77.5°	3.7	3.0	2.8	2.4	2.8	3.0	3.2	3.2	3.3	3.3	3.3
80°	1.5	0.7	0.4	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.0
82.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.4	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: P596839
 CATALOG NUMBER: MSA-SA1A-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: P596839
 CATALOG NUMBER: MSA-SA1A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	274.5	267.6	260.7	264.0	267.3	270.7	274.0	273.7	273.3	273.0	272.6
5°	279.7	279.3	278.8	276.9	275.1	273.2	271.2	270.8	270.2	269.8	269.3
7.5°	235.2	235.9	236.7	234.5	232.3	230.1	227.9	222.2	216.5	210.7	205.0
10°	176.2	172.9	169.7	169.4	169.1	168.9	168.6	168.0	167.5	166.8	166.2
12.5°	124.5	126.5	128.4	127.7	127.0	126.2	125.5	126.5	127.6	128.5	129.5
15°	75.9	77.2	78.3	80.8	83.2	85.7	88.2	89.2	90.3	91.3	92.3
17.5°	49.5	49.6	49.9	52.6	55.3	58.0	60.7	62.5	64.3	65.9	67.7
20°	40.3	39.9	39.5	41.0	42.5	44.0	45.6	47.2	48.9	50.6	52.2
22.5°	35.9	35.6	35.3	35.9	36.4	36.8	37.4	38.6	40.0	41.3	42.5
25°	33.0	32.7	32.6	32.8	33.1	33.4	33.7	34.4	35.0	35.7	36.4
27.5°	29.6	29.8	29.8	30.1	30.2	30.5	30.6	30.9	31.3	31.6	31.9
30°	27.1	27.4	27.6	27.8	28.0	28.3	28.4	28.3	28.1	28.0	27.8
32.5°	24.8	24.7	24.7	24.9	25.1	25.3	25.5	25.8	26.0	26.2	26.5
35°	22.4	22.6	22.6	22.6	22.7	22.7	22.7	23.0	23.4	23.7	24.0
37.5°	20.4	20.4	20.2	20.6	20.9	21.3	21.6	21.9	22.3	22.6	22.9
40°	18.6	18.6	18.6	18.8	19.1	19.3	19.5	20.2	20.9	21.6	22.3
42.5°	16.6	16.8	16.8	17.0	17.3	17.5	17.7	18.3	18.7	19.3	19.7
45°	14.8	15.0	15.1	15.4	15.5	15.8	15.9	16.2	16.3	16.6	16.8
47.5°	12.7	12.9	13.0	13.3	13.4	13.7	13.9	13.7	13.7	13.6	13.4
50°	10.7	10.8	10.9	11.4	11.6	12.1	12.3	12.1	11.8	11.4	11.1
52.5°	9.0	9.0	9.1	9.4	9.7	9.8	10.1	10.0	9.8	9.7	9.6
55°	7.8	7.8	7.8	7.9	8.0	8.2	8.3	8.4	8.4	8.6	8.6
57.5°	6.9	6.8	6.8	6.9	7.1	7.1	7.2	7.3	7.3	7.5	7.5
60°	6.2	6.1	6.1	6.2	6.4	6.5	6.6	6.6	6.6	6.5	6.5
62.5°	5.5	5.5	5.5	5.7	5.7	5.8	5.8	5.8	6.0	6.0	6.0
65°	5.1	5.1	5.1	5.1	5.1	5.0	5.0	5.1	5.1	5.3	5.3
67.5°	4.7	4.8	4.8	4.7	4.6	4.4	4.3	4.4	4.4	4.6	4.6
70°	4.3	4.3	4.3	4.2	4.0	3.9	3.7	3.7	3.7	3.6	3.6
72.5°	4.0	3.9	3.9	3.7	3.5	3.3	3.0	2.9	2.9	2.8	2.6
75°	3.7	3.6	3.6	3.3	3.0	2.8	2.5	2.4	2.1	1.9	1.7
77.5°	3.3	3.3	3.3	2.9	2.6	2.2	1.8	1.5	1.2	0.8	0.6
80°	1.1	1.2	1.4	1.2	1.2	1.1	1.0	0.7	0.6	0.3	0.0
82.5°	0.1	0.1	0.1	0.1	0.1	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: P596839
 CATALOG NUMBER: MSA-SA1A-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: P596839
 CATALOG NUMBER: MSA-SA1A-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°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	274.1	275.7	277.2	278.7	278.8	279.0	279.1	279.3	275.8	272.2	268.7
5°	272.0	275.0	277.7	280.5	279.0	277.5	275.9	274.4	274.3	274.3	274.1
7.5°	205.4	205.7	206.1	206.4	206.9	207.5	207.9	208.5	210.7	212.9	215.0
10°	164.4	162.6	160.7	158.9	157.5	156.0	154.6	153.1	154.2	155.4	156.5
12.5°	128.0	126.5	124.8	123.3	122.7	122.2	121.5	120.9	124.5	128.1	131.6
15°	92.0	91.7	91.3	91.0	92.8	94.6	96.4	98.2	101.3	104.2	107.2
17.5°	68.4	69.1	69.8	70.5	71.6	72.7	73.7	74.8	77.0	79.4	81.6
20°	53.1	54.0	54.9	55.7	55.4	55.1	54.7	54.4	56.2	58.0	59.7
22.5°	43.4	44.0	44.9	45.6	45.7	45.8	46.0	46.1	47.2	48.2	49.3
25°	37.1	38.0	38.6	39.3	39.5	39.6	39.8	39.9	41.3	42.7	43.9
27.5°	32.8	33.7	34.6	35.5	35.7	36.0	36.3	36.6	37.4	38.1	38.9
30°	29.0	30.1	31.2	32.3	32.7	33.1	33.5	33.9	34.8	35.7	36.6
32.5°	27.0	27.7	28.3	28.8	29.8	30.6	31.6	32.4	33.4	34.5	35.5
35°	24.8	25.5	26.3	27.0	27.7	28.4	29.0	29.6	30.2	30.8	31.2
37.5°	23.4	24.1	24.7	25.2	25.5	25.8	25.9	26.2	26.5	26.7	26.9
40°	22.3	22.2	22.2	22.0	22.3	22.7	23.0	23.3	24.1	24.8	25.6
42.5°	19.4	19.0	18.7	18.3	19.0	19.5	20.2	20.8	21.9	23.0	24.1
45°	16.5	16.2	15.8	15.5	16.5	17.5	18.4	19.4	20.6	21.7	23.0
47.5°	13.6	13.7	13.7	13.9	14.8	15.8	16.6	17.6	18.8	20.1	21.3
50°	11.4	11.6	11.9	12.2	13.2	14.0	15.0	15.8	17.2	18.4	19.8
52.5°	10.0	10.4	10.7	11.1	11.9	12.9	13.7	14.5	15.8	17.0	18.3
55°	9.0	9.6	10.0	10.4	11.1	11.8	12.5	13.2	14.4	15.7	16.8
57.5°	7.9	8.3	8.7	9.1	9.8	10.5	11.1	11.8	12.9	14.1	15.2
60°	6.9	7.2	7.6	7.9	8.4	9.1	9.7	10.3	11.4	12.5	13.4
62.5°	6.1	6.4	6.5	6.6	7.2	7.8	8.3	8.9	9.8	10.9	11.9
65°	5.4	5.5	5.5	5.7	6.1	6.6	7.1	7.5	8.6	9.6	10.7
67.5°	4.6	4.7	4.7	4.7	5.1	5.5	6.0	6.4	7.3	8.4	9.4
70°	3.6	3.7	3.7	3.7	4.2	4.7	5.1	5.5	6.4	7.2	8.0
72.5°	2.8	2.8	2.9	2.9	3.3	3.9	4.3	4.7	5.4	6.1	6.8
75°	1.8	1.9	1.9	2.1	2.5	3.0	3.5	3.9	4.6	5.3	5.8
77.5°	0.7	1.0	1.1	1.2	1.7	2.1	2.5	2.9	3.5	4.2	4.7
80°	0.0	0.1	0.1	0.1	0.4	0.6	0.8	1.0	1.4	1.9	2.4
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: P596839
 CATALOG NUMBER: MSA-SA1A-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: P596839
 CATALOG NUMBER: MSA-SA1A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	265.1	272.7	280.4	288.0	295.6	305.0	314.4	315.8	317.2	315.5	314.0
5°	274.0	277.7	281.3	285.1	288.7	299.5	310.1	310.3	310.3	310.4	310.4
7.5°	217.2	220.4	223.6	226.6	229.8	236.9	243.9	246.6	249.1	248.5	247.9
10°	157.6	161.8	165.8	170.0	174.0	180.5	187.0	189.5	191.8	199.5	207.2
12.5°	135.2	139.2	143.2	147.1	151.1	157.8	164.4	169.3	174.0	178.7	183.4
15°	110.1	113.3	116.6	119.8	123.0	126.1	129.1	135.1	140.9	145.6	150.3
17.5°	83.8	85.2	86.4	87.8	89.1	90.5	91.8	94.3	96.7	100.8	104.9
20°	61.5	62.6	63.7	64.7	65.8	67.2	68.6	70.4	72.0	73.0	73.8
22.5°	50.3	51.9	53.6	55.1	56.8	57.8	58.7	59.3	59.8	60.3	60.7
25°	45.3	46.8	48.2	49.7	51.1	51.5	51.9	53.1	54.2	54.2	54.2
27.5°	39.6	41.7	43.9	46.0	48.1	48.6	49.0	49.5	49.7	49.2	48.5
30°	37.4	39.5	41.6	43.5	45.6	46.4	47.1	47.5	47.9	47.2	46.5
32.5°	36.4	38.4	40.2	42.1	43.9	45.0	46.0	47.1	48.1	48.2	48.5
35°	31.7	33.0	34.4	35.6	36.8	37.4	38.0	38.4	38.6	38.6	38.6
37.5°	27.1	28.8	30.6	32.3	33.9	35.2	36.4	36.6	36.6	36.8	37.3
40°	26.3	28.0	29.6	31.2	32.8	34.2	35.5	35.6	35.7	36.0	36.3
42.5°	25.2	27.0	28.8	30.6	32.4	33.8	35.0	35.0	34.9	35.3	35.6
45°	24.1	25.9	27.6	29.4	31.0	32.8	34.5	34.1	33.5	34.2	34.8
47.5°	22.6	24.5	26.5	28.3	30.2	31.9	33.4	33.1	32.7	33.4	34.1
50°	21.1	23.0	24.9	26.9	28.8	30.6	32.3	32.0	31.7	32.6	33.2
52.5°	19.5	21.5	23.5	25.5	27.4	29.0	30.3	30.2	30.1	30.9	31.9
55°	18.0	19.8	21.7	23.5	25.3	27.0	28.5	28.3	28.0	28.7	29.4
57.5°	16.3	18.1	19.8	21.6	23.3	24.7	25.9	25.5	25.1	25.9	26.7
60°	14.5	16.2	17.9	19.4	21.1	22.2	23.1	22.9	22.4	23.3	24.1
62.5°	12.9	14.4	15.9	17.3	18.8	19.7	20.5	20.2	19.9	20.8	21.7
65°	11.6	12.9	14.0	15.2	16.3	17.2	18.0	17.6	17.2	18.1	19.0
67.5°	10.4	11.4	12.5	13.4	14.4	15.1	15.8	15.5	15.1	15.8	16.5
70°	8.9	9.8	10.8	11.6	12.6	13.3	14.0	13.6	13.0	13.7	14.4
72.5°	7.5	8.3	9.1	9.8	10.7	11.2	11.8	11.4	10.9	11.5	12.1
75°	6.5	7.2	7.9	8.4	9.1	9.4	9.7	9.6	9.3	9.8	10.3
77.5°	5.3	5.8	6.5	7.1	7.6	7.6	7.6	7.8	7.8	8.3	9.0
80°	2.8	3.3	3.9	4.3	4.8	4.8	4.7	5.0	5.1	5.8	6.5
82.5°	0.0	0.4	0.8	1.2	1.7	1.5	1.2	1.4	1.4	1.7	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
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: P596839
 CATALOG NUMBER: MSA-SA1A-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: P596839
 CATALOG NUMBER: MSA-SA1A-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°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	312.4	310.7	309.6	308.6	307.5	306.4	307.8	309.2	310.4	311.8	316.0
5°	310.6	310.6	309.6	308.6	307.6	306.7	308.8	310.7	312.8	314.7	314.6
7.5°	247.3	246.7	252.5	258.2	264.0	269.7	271.2	272.7	274.1	275.7	275.2
10°	214.8	222.5	225.0	227.4	229.9	232.4	235.5	238.5	241.6	244.6	245.7
12.5°	188.1	192.8	200.9	208.7	216.8	224.7	228.7	232.8	236.9	240.9	248.8
15°	155.0	159.7	166.6	173.6	180.5	187.4	193.8	200.3	206.7	213.0	222.6
17.5°	109.0	113.0	118.3	123.6	128.7	133.9	143.8	153.6	163.5	173.3	183.4
20°	74.8	75.6	78.1	80.8	83.2	85.7	94.6	103.6	112.5	121.3	134.6
22.5°	60.9	61.4	62.6	63.9	65.0	66.2	70.8	75.5	80.1	84.6	95.4
25°	54.0	54.0	54.9	55.7	56.5	57.3	59.8	62.3	64.7	67.2	74.1
27.5°	47.9	47.2	48.5	49.7	51.0	52.2	54.0	56.0	57.8	59.6	64.3
30°	45.8	45.2	46.7	48.2	49.7	51.3	53.1	54.9	56.5	58.3	61.5
32.5°	48.6	48.8	49.3	49.9	50.3	50.8	51.7	52.6	53.5	54.3	57.1
35°	38.6	38.6	39.6	40.6	41.4	42.4	43.9	45.4	47.0	48.5	51.4
37.5°	37.5	37.8	38.6	39.6	40.4	41.3	43.2	45.3	47.2	49.2	51.5
40°	36.4	36.7	37.8	38.9	40.0	41.1	43.1	44.9	46.8	48.6	50.8
42.5°	36.0	36.3	37.7	39.2	40.6	42.0	43.6	45.3	46.8	48.5	51.5
45°	35.5	36.0	37.7	39.5	41.1	42.8	44.3	45.8	47.4	48.9	52.6
47.5°	34.6	35.3	37.3	39.1	41.0	42.8	45.7	48.8	51.7	54.6	56.4
50°	34.1	34.8	36.8	38.9	41.0	43.1	47.8	52.5	57.1	61.8	60.8
52.5°	32.7	33.5	36.2	38.8	41.4	44.0	48.2	52.4	56.5	60.7	58.7
55°	30.1	30.8	33.8	36.8	39.8	42.8	45.8	48.9	51.8	54.9	52.6
57.5°	27.4	28.3	31.2	34.1	36.8	39.8	41.3	42.8	44.3	45.8	45.0
60°	24.9	25.8	29.6	33.5	37.4	41.3	39.9	38.5	37.0	35.6	36.6
62.5°	22.6	23.4	27.1	30.8	34.5	38.1	36.2	34.2	32.3	30.3	31.9
65°	19.9	20.8	22.2	23.7	25.1	26.5	26.3	26.0	25.9	25.6	27.3
67.5°	17.2	17.9	18.6	19.4	20.1	20.8	21.2	21.7	22.2	22.6	24.0
70°	15.0	15.7	16.5	17.2	18.0	18.7	19.0	19.3	19.4	19.7	20.9
72.5°	12.5	13.0	14.1	15.2	16.2	17.3	17.5	17.5	17.6	17.6	18.6
75°	10.8	11.2	12.1	12.9	13.6	14.4	14.8	15.2	15.5	15.9	16.5
77.5°	9.6	10.1	10.4	10.5	10.8	10.9	11.2	11.5	11.8	12.1	12.2
80°	7.1	7.8	8.0	8.2	8.4	8.6	8.6	8.4	8.4	8.3	8.4
82.5°	2.2	2.5	2.9	3.3	3.7	4.2	4.3	4.4	4.4	4.6	4.4
85°	0.4	0.6	0.8	1.1	1.2	1.5	1.4	1.1	1.0	0.7	0.6
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: P596839
 CATALOG NUMBER: MSA-SA1A-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: P596839
 CATALOG NUMBER: MSA-SA1A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	320.1	324.1	328.3	326.6	325.0	323.3	321.6	321.9	322.3	322.6	322.9
5°	314.4	314.2	314.0	318.7	323.6	328.3	333.0	338.1	343.4	348.5	353.6
7.5°	274.8	274.3	273.8	279.9	286.0	292.1	298.2	305.3	312.5	319.6	326.6
10°	246.8	247.9	249.1	251.5	254.2	256.7	259.2	266.0	272.7	279.4	286.2
12.5°	256.7	264.4	272.3	273.8	275.2	276.8	278.1	279.1	280.1	281.1	282.0
15°	232.3	241.9	251.4	255.4	259.3	263.3	267.2	277.5	287.6	297.8	307.9
17.5°	193.5	203.5	213.6	225.6	237.7	249.7	261.8	272.9	284.0	295.0	306.1
20°	148.1	161.4	174.7	189.9	205.3	220.5	235.8	246.8	257.8	268.9	279.8
22.5°	106.4	117.2	128.0	146.4	164.7	183.1	201.4	220.7	240.1	259.3	278.6
25°	81.0	87.8	94.7	112.9	131.0	149.0	167.2	193.6	220.1	246.6	273.0
27.5°	68.8	73.6	78.1	94.5	110.8	127.0	143.4	174.8	206.3	237.7	269.1
30°	64.8	68.0	71.2	85.0	99.0	112.9	126.7	158.6	190.5	222.3	254.2
32.5°	59.8	62.5	65.2	77.4	89.6	101.7	113.9	145.0	176.2	207.2	238.4
35°	54.2	57.1	59.8	72.0	84.2	96.3	108.5	140.7	173.0	205.3	237.6
37.5°	53.7	56.1	58.3	72.4	86.7	100.8	115.0	147.2	179.5	211.7	243.9
40°	53.2	55.4	57.6	72.0	86.3	100.7	115.0	148.8	182.6	216.4	250.2
42.5°	54.6	57.5	60.5	73.3	86.0	98.6	111.4	147.0	182.6	218.0	253.6
45°	56.5	60.3	64.0	75.6	87.3	98.9	110.5	149.2	187.8	226.3	265.0
47.5°	58.3	60.1	61.9	73.0	83.9	95.0	106.0	145.4	184.9	224.4	263.9
50°	60.0	59.0	58.0	70.2	82.4	94.5	106.7	144.3	181.9	219.6	257.1
52.5°	56.7	54.7	52.6	65.7	78.7	91.6	104.6	142.5	180.5	218.4	256.4
55°	50.4	48.2	46.0	58.9	71.6	84.5	97.2	135.1	172.9	210.7	248.5
57.5°	44.0	43.2	42.2	52.1	61.9	71.6	81.4	123.4	165.5	207.5	249.5
60°	37.5	38.4	39.3	46.4	53.5	60.4	67.5	108.6	149.6	190.7	231.7
62.5°	33.2	34.8	36.2	42.1	48.2	54.2	60.1	98.9	137.7	176.5	215.3
65°	29.1	30.8	32.4	39.5	46.7	53.7	60.8	93.6	126.5	159.3	192.1
67.5°	25.3	26.6	28.0	37.3	46.5	55.8	65.1	92.0	118.7	145.6	172.3
70°	22.2	23.3	24.5	35.3	46.1	56.9	67.7	90.6	113.6	136.4	159.3
72.5°	19.5	20.5	21.5	32.4	43.4	54.3	65.2	85.6	105.8	126.2	146.4
75°	17.0	17.5	18.0	27.3	36.4	45.7	54.9	68.4	82.1	95.7	109.3
77.5°	12.3	12.3	12.5	15.2	17.9	20.6	23.3	31.7	40.2	48.5	56.9
80°	8.4	8.6	8.6	9.7	10.7	11.8	12.7	14.5	16.2	18.0	19.7
82.5°	4.3	4.0	3.9	5.0	6.1	7.2	8.3	8.7	9.0	9.4	9.7
85°	0.4	0.1	0.0	0.7	1.4	2.1	2.8	3.3	3.9	4.4	5.0
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



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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



REPORT NUMBER: P596839

CATALOG NUMBER: MSA-SA1A-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°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	321.8	320.7	319.6	318.5	325.2	332.2	339.0	345.7	365.0	377.6	376.2
5°	358.6	363.6	368.6	373.6	381.6	389.8	397.8	405.9	434.4	451.8	454.3
7.5°	334.4	342.0	349.8	357.4	372.9	388.3	403.8	419.2	442.6	460.7	471.0
10°	294.9	303.6	312.2	320.9	338.4	356.0	373.4	390.9	417.2	442.3	455.2
12.5°	295.7	309.4	323.2	336.9	352.1	367.3	382.4	397.7	413.8	422.2	440.3
15°	318.7	329.5	340.3	351.1	371.1	391.0	410.8	430.8	440.3	460.7	481.9
17.5°	327.2	348.4	369.4	390.5	415.4	440.2	465.1	489.9	507.9	536.2	558.1
20°	311.5	343.2	374.8	406.5	440.8	475.0	509.2	543.4	563.1	589.9	623.7
22.5°	312.2	345.9	379.4	413.1	460.3	507.4	554.6	601.7	654.5	706.3	722.8
25°	317.1	361.1	405.0	449.1	503.7	558.2	612.8	667.4	731.1	785.5	807.4
27.5°	318.7	368.3	417.8	467.4	544.9	622.5	700.1	777.6	853.7	915.2	938.6
30°	314.7	375.4	435.9	496.4	591.6	686.8	781.9	877.1	949.3	1020.9	1050.0
32.5°	315.7	393.0	470.3	547.6	659.6	771.8	883.9	995.9	1042.1	1106.6	1157.9
35°	322.3	407.1	491.7	576.5	700.5	824.5	948.4	1072.4	1148.0	1216.2	1259.7
37.5°	337.8	431.8	525.5	619.5	771.8	924.3	1076.7	1229.1	1346.1	1463.2	1483.1
40°	349.3	448.5	547.7	646.9	823.8	1000.7	1177.5	1354.4	1486.8	1613.9	1627.4
42.5°	362.4	471.0	579.7	688.3	886.1	1083.9	1281.7	1479.5	1632.8	1762.4	1771.4
45°	376.6	488.4	600.1	711.7	918.9	1126.0	1333.2	1540.3	1719.4	1869.9	1835.9
47.5°	383.4	503.0	622.5	742.0	964.2	1186.3	1408.4	1630.5	1791.2	1923.9	1884.3
50°	388.7	520.1	651.7	783.2	1016.2	1249.2	1482.1	1715.1	1876.2	1998.7	1936.6
52.5°	403.5	550.5	697.6	844.5	1092.4	1340.0	1587.8	1835.5	1991.3	2103.8	2016.8
55°	417.9	587.2	756.6	925.9	1192.4	1459.0	1725.5	1992.0	2147.2	2243.6	2125.4
57.5°	436.1	622.8	809.4	995.9	1281.0	1566.1	1851.0	2136.1	2287.8	2394.3	2271.6
60°	431.3	630.8	830.4	1029.9	1320.2	1610.5	1900.9	2191.2	2371.4	2502.3	2419.1
62.5°	413.1	610.9	808.5	1006.3	1291.5	1576.6	1861.8	2146.9	2362.8	2540.1	2512.2
65°	376.1	559.9	743.8	927.7	1200.0	1472.4	1744.8	2017.1	2283.6	2509.2	2519.2
67.5°	327.5	482.6	637.6	792.7	1046.8	1300.8	1554.7	1808.8	2123.3	2386.5	2416.2
70°	275.9	392.4	509.1	625.5	849.1	1072.7	1296.1	1519.7	1846.7	2111.6	2167.5
72.5°	221.2	296.2	371.0	445.7	607.1	768.4	929.7	1091.0	1378.7	1584.2	1681.9
75°	143.4	177.4	211.5	245.6	353.1	460.4	567.9	675.3	866.3	1017.7	1128.1
77.5°	63.9	70.8	77.6	84.5	167.5	250.4	333.4	416.4	499.4	590.8	616.7
80°	22.9	25.9	29.1	32.1	72.9	113.7	154.4	195.2	235.3	282.6	294.1
82.5°	9.6	9.6	9.4	9.3	23.8	38.4	52.9	67.5	78.0	89.6	91.8
85°	3.9	2.9	1.8	0.7	3.0	5.5	7.9	10.3	16.5	15.0	27.7
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: P596839
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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: P596839

CATALOG NUMBER: MSA-SA1A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	371.0	370.7	370.4	370.1	369.8	364.9	360.0	355.0	350.2	356.3	362.4
5°	450.3	457.5	464.7	472.1	479.3	481.3	483.4	485.5	487.6	492.0	496.4
7.5°	479.5	491.7	503.8	516.0	528.0	539.2	550.3	561.6	572.8	570.0	567.2
10°	469.4	491.5	513.5	535.6	557.7	562.5	567.4	572.4	577.2	589.8	602.4
12.5°	458.5	485.0	511.4	537.9	564.3	579.0	593.5	608.2	622.9	635.7	648.4
15°	510.4	527.3	544.2	561.3	578.2	591.1	603.8	616.7	629.4	638.3	647.0
17.5°	578.7	587.0	595.3	603.8	612.1	622.2	632.3	642.4	652.6	657.8	663.1
20°	650.9	654.5	658.1	661.7	665.3	657.3	649.2	641.2	633.2	638.2	643.0
22.5°	723.3	724.6	726.0	727.2	728.5	709.8	691.1	672.4	653.7	645.8	637.9
25°	834.8	825.7	816.6	807.4	798.3	776.1	754.0	731.8	709.6	690.1	670.6
27.5°	955.6	924.6	893.7	862.7	831.8	809.6	787.5	765.3	743.1	713.8	684.4
30°	1077.4	1027.4	977.5	927.5	877.6	851.3	825.0	798.6	772.2	742.9	713.6
32.5°	1189.0	1128.9	1068.8	1008.5	948.4	904.1	859.8	815.5	771.1	750.6	730.1
35°	1281.6	1210.5	1139.4	1068.2	997.2	953.3	909.4	865.5	821.5	791.1	760.7
37.5°	1439.8	1359.8	1279.9	1200.0	1120.1	1060.1	1000.2	940.3	880.3	859.9	839.6
40°	1585.6	1484.9	1384.2	1283.5	1182.8	1132.5	1082.4	1032.1	982.0	948.6	915.3
42.5°	1701.6	1595.4	1489.5	1383.4	1277.3	1227.5	1178.0	1128.2	1078.5	1056.2	1034.0
45°	1726.6	1626.6	1526.7	1426.7	1326.7	1297.8	1269.0	1240.0	1211.2	1195.8	1180.6
47.5°	1776.1	1667.6	1559.3	1450.8	1342.4	1329.4	1316.3	1303.2	1290.2	1297.5	1304.8
50°	1803.8	1693.1	1582.4	1471.8	1361.1	1364.8	1368.4	1372.2	1375.9	1428.0	1479.9
52.5°	1857.5	1745.7	1634.0	1522.2	1410.4	1433.9	1457.3	1480.9	1504.3	1576.1	1647.7
55°	1953.5	1843.7	1733.8	1623.8	1514.0	1545.0	1576.1	1607.2	1638.2	1714.4	1790.5
57.5°	2095.8	1986.8	1877.9	1768.9	1660.0	1690.9	1721.8	1752.7	1783.6	1852.4	1921.1
60°	2274.9	2163.0	2051.2	1939.2	1827.5	1839.1	1850.6	1862.2	1873.9	1947.8	2021.7
62.5°	2414.4	2311.4	2208.7	2105.7	2003.0	1990.1	1977.3	1964.5	1951.7	2008.0	2064.1
65°	2446.8	2374.3	2302.0	2229.6	2157.1	2117.5	2078.0	2038.4	1998.8	2021.5	2044.2
67.5°	2354.0	2305.1	2256.3	2207.4	2158.5	2075.8	1993.1	1910.3	1827.6	1815.6	1803.5
70°	2138.6	2111.8	2085.2	2058.5	2031.9	1904.5	1777.2	1649.7	1522.4	1491.8	1461.2
72.5°	1687.6	1704.2	1720.8	1737.6	1754.2	1617.7	1481.4	1345.0	1208.6	1169.8	1131.1
75°	1190.0	1246.4	1302.8	1359.1	1415.5	1291.1	1166.9	1042.5	918.1	880.8	843.7
77.5°	645.2	750.9	856.6	962.3	1068.0	965.3	862.8	760.2	657.5	631.6	605.9
80°	305.8	366.8	427.6	488.6	549.5	526.4	503.2	480.0	456.8	462.5	468.2
82.5°	93.8	137.8	181.9	225.9	270.0	273.4	276.8	280.2	283.7	292.3	300.7
85°	31.4	43.1	54.7	66.3	78.0	98.5	119.0	139.6	160.1	146.8	133.7
87.5°	0.0	0.4	0.7	1.1	1.4	4.3	7.2	10.1	13.0	11.2	9.6
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



REPORT NUMBER: P596839

CATALOG NUMBER: MSA-SA1A-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°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	368.6	374.7	374.8	375.1	375.2	375.4	376.1	376.8	377.6	378.3	373.7
5°	501.0	505.5	497.3	489.1	480.8	472.6	480.0	487.3	494.6	502.0	498.8
7.5°	564.3	561.6	560.6	559.7	558.8	557.9	560.7	563.5	566.3	569.0	568.8
10°	615.0	627.6	630.7	633.7	636.9	640.0	633.6	627.2	620.8	614.5	611.8
12.5°	661.1	673.9	684.0	694.1	704.4	714.5	705.3	696.3	687.2	678.2	669.6
15°	655.9	664.6	672.9	681.2	689.5	697.9	694.8	691.9	688.8	685.8	684.4
17.5°	668.5	673.8	671.8	669.9	667.8	665.9	664.9	664.1	663.1	662.1	658.8
20°	648.0	653.0	651.7	650.6	649.4	648.1	647.3	646.5	645.6	644.8	642.2
22.5°	630.0	622.1	620.0	618.1	616.0	614.0	614.3	614.6	614.7	615.0	626.9
25°	651.0	631.5	623.9	616.3	608.5	600.9	604.4	607.7	611.1	614.6	631.8
27.5°	654.9	625.5	613.4	601.2	589.0	576.8	589.3	601.7	614.2	626.7	654.5
30°	684.3	655.1	638.0	621.1	604.1	587.2	603.1	619.0	635.0	650.9	681.1
32.5°	709.5	689.0	676.8	664.6	652.4	640.2	640.9	641.5	642.2	642.9	685.4
35°	730.3	699.9	688.8	677.9	666.8	655.9	672.4	688.8	705.3	721.8	760.0
37.5°	819.2	798.8	778.5	758.2	737.9	717.7	730.8	744.0	757.3	770.4	812.7
40°	881.9	848.7	843.4	838.3	833.0	827.9	834.7	841.4	848.1	854.9	891.9
42.5°	1011.7	989.4	975.2	961.0	946.8	932.6	938.0	943.4	949.0	954.4	989.4
45°	1165.2	1149.8	1140.4	1131.0	1121.4	1112.0	1103.8	1095.8	1087.6	1079.6	1115.2
47.5°	1312.2	1319.5	1340.3	1360.9	1381.7	1402.4	1385.5	1368.6	1351.5	1334.6	1334.8
50°	1532.0	1583.9	1594.5	1604.9	1615.4	1625.8	1589.8	1553.8	1517.6	1481.6	1477.3
52.5°	1719.4	1791.0	1794.8	1798.5	1802.4	1806.1	1791.6	1777.0	1762.4	1747.8	1709.2
55°	1866.7	1942.7	1947.8	1952.8	1957.9	1962.9	1950.2	1937.6	1924.8	1912.1	1873.0
57.5°	1989.9	2058.6	2061.7	2064.6	2067.7	2070.7	2071.7	2072.6	2073.7	2074.7	2021.9
60°	2095.6	2169.6	2163.5	2157.6	2151.5	2145.5	2136.4	2127.2	2118.1	2108.9	2074.9
62.5°	2120.3	2176.5	2167.1	2157.8	2148.4	2139.1	2131.4	2123.8	2116.0	2108.2	2086.5
65°	2067.0	2089.7	2080.0	2070.3	2060.5	2050.8	2045.8	2040.9	2035.9	2030.9	2028.2
67.5°	1791.3	1779.3	1790.8	1802.3	1813.8	1825.2	1840.9	1856.6	1872.3	1888.0	1878.9
70°	1430.5	1399.9	1412.6	1425.2	1438.0	1450.6	1474.2	1497.9	1521.8	1545.4	1539.1
72.5°	1092.4	1053.6	1055.4	1057.2	1059.1	1060.9	1060.2	1059.7	1059.0	1058.3	1069.4
75°	806.4	769.2	751.6	734.0	716.4	698.8	694.5	690.2	685.9	681.6	702.3
77.5°	580.0	554.2	542.2	530.2	518.2	506.3	512.4	518.5	524.7	530.8	538.0
80°	474.0	479.7	470.4	461.3	452.0	442.7	449.6	456.4	463.3	470.3	448.8
82.5°	309.3	317.8	289.2	260.7	232.2	203.6	220.9	238.3	255.7	273.0	264.2
85°	120.4	107.2	91.4	75.8	60.0	44.2	57.5	70.8	84.1	97.4	106.2
87.5°	7.8	6.1	4.8	3.6	2.2	1.0	2.1	3.2	4.4	5.5	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P596839
 CATALOG NUMBER: MSA-SA1A-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: P596839

CATALOG NUMBER: MSA-SA1A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	369.3	364.7	360.3	351.6	342.8	334.1	325.4	337.6	349.8	361.9	374.1
5°	495.8	492.6	489.5	490.4	491.2	492.2	493.0	494.8	496.6	498.2	500.0
7.5°	568.6	568.3	568.1	561.7	555.3	548.8	542.4	545.6	548.8	552.0	555.2
10°	609.3	606.7	604.1	590.1	576.1	562.0	548.0	541.9	535.6	529.6	523.5
12.5°	661.0	652.3	643.7	628.7	613.9	599.0	584.0	578.4	572.8	567.2	561.6
15°	683.2	681.8	680.5	669.9	659.1	648.4	637.6	618.6	599.5	580.5	561.6
17.5°	655.5	652.0	648.7	665.6	682.3	699.2	716.1	696.5	676.8	657.1	637.5
20°	639.5	636.9	634.3	665.7	697.0	728.5	759.8	751.0	742.2	733.5	724.7
22.5°	638.8	650.9	662.8	690.4	717.8	745.4	772.8	787.9	803.1	818.2	833.3
25°	649.0	666.3	683.4	729.2	774.9	820.7	866.4	883.7	900.9	918.2	935.4
27.5°	682.2	710.0	737.7	777.6	817.5	857.6	897.5	935.3	973.2	1011.0	1048.9
30°	711.1	741.3	771.5	819.1	866.4	913.9	961.3	1008.7	1056.1	1103.4	1150.8
32.5°	727.9	770.6	813.1	870.9	928.5	986.2	1044.0	1096.0	1147.9	1199.7	1251.6
35°	798.3	836.6	874.9	938.7	1002.6	1066.6	1130.4	1194.7	1259.0	1323.1	1387.4
37.5°	854.9	897.3	939.6	1009.4	1079.1	1148.9	1218.7	1307.5	1396.4	1485.2	1574.0
40°	928.9	965.9	1002.9	1068.2	1133.5	1198.9	1264.3	1376.9	1489.5	1602.0	1714.6
42.5°	1024.3	1059.4	1094.4	1164.4	1234.3	1304.3	1374.2	1498.9	1623.6	1748.1	1872.8
45°	1150.8	1186.5	1222.1	1277.8	1333.5	1389.2	1444.9	1577.4	1709.9	1842.4	1974.8
47.5°	1334.9	1335.0	1335.2	1375.3	1415.5	1455.8	1496.0	1629.5	1762.9	1896.4	2029.8
50°	1473.0	1468.6	1464.3	1485.0	1505.7	1526.5	1547.2	1670.1	1793.1	1916.0	2038.8
52.5°	1670.7	1632.0	1593.5	1605.8	1618.0	1630.4	1642.5	1746.6	1850.7	1954.8	2058.8
55°	1834.1	1795.1	1756.0	1751.4	1746.8	1742.3	1737.7	1833.4	1929.1	2024.9	2120.6
57.5°	1969.3	1916.5	1863.9	1853.4	1843.0	1832.5	1821.9	1922.9	2023.7	2124.7	2225.6
60°	2040.9	2006.8	1972.8	1966.0	1959.1	1952.3	1945.3	2028.2	2111.0	2193.8	2276.7
62.5°	2064.9	2043.1	2021.5	2034.3	2047.0	2059.9	2072.6	2109.1	2145.4	2181.8	2218.1
65°	2025.5	2022.8	2020.0	2046.2	2072.2	2098.4	2124.6	2115.6	2106.4	2097.4	2088.4
67.5°	1869.9	1860.7	1851.7	1909.2	1966.5	2024.0	2081.5	2037.9	1994.1	1950.5	1906.8
70°	1532.7	1526.2	1519.8	1602.6	1685.5	1768.5	1851.3	1798.4	1745.5	1692.5	1639.6
72.5°	1080.3	1091.4	1102.5	1200.1	1297.6	1395.3	1492.8	1439.5	1386.1	1332.8	1279.5
75°	722.8	743.4	764.1	864.6	965.2	1065.9	1166.5	1103.8	1041.2	978.6	916.0
77.5°	545.2	552.4	559.6	623.2	686.8	750.5	814.1	762.4	710.6	658.9	607.1
80°	427.3	405.7	384.2	405.2	426.1	447.0	467.9	437.0	406.1	375.4	344.5
82.5°	255.3	246.4	237.6	248.9	260.1	271.5	282.9	269.6	256.1	242.8	229.4
85°	115.0	123.8	132.6	144.1	155.4	166.9	178.4	159.8	141.3	122.7	104.2
87.5°	12.9	16.6	20.4	25.2	30.1	34.9	39.8	31.0	22.2	13.4	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



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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°	292.8	292.8
2.5°	381.2	388.3
5°	499.9	499.6
7.5°	546.9	538.4
10°	515.7	507.9
12.5°	541.7	521.9
15°	546.6	531.6
17.5°	613.1	588.6
20°	693.3	661.7
22.5°	790.1	746.7
25°	883.9	832.4
27.5°	1018.0	986.9
30°	1119.5	1088.1
32.5°	1230.3	1209.0
35°	1366.2	1344.9
37.5°	1579.5	1584.9
40°	1717.9	1721.2
42.5°	1885.6	1898.5
45°	1989.3	2003.7
47.5°	2049.9	2070.0
50°	2071.3	2103.7
52.5°	2098.8	2138.7
55°	2165.0	2209.5
57.5°	2261.0	2296.5
60°	2278.3	2280.0
62.5°	2192.5	2166.8
65°	2061.1	2033.9
67.5°	1890.4	1873.7
70°	1617.7	1595.9
72.5°	1238.8	1198.0
75°	865.6	815.2
77.5°	580.7	554.2
80°	345.3	346.0
82.5°	235.8	242.0
85°	102.9	101.5
87.5°	3.3	1.8
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)