

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: P596488

Luminaire Tested: **MSA-SA1A-827-U-SLR**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596488
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-SA1A-827-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: 2545 lumens
Efficiency: N/A
Efficacy: 74.9 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

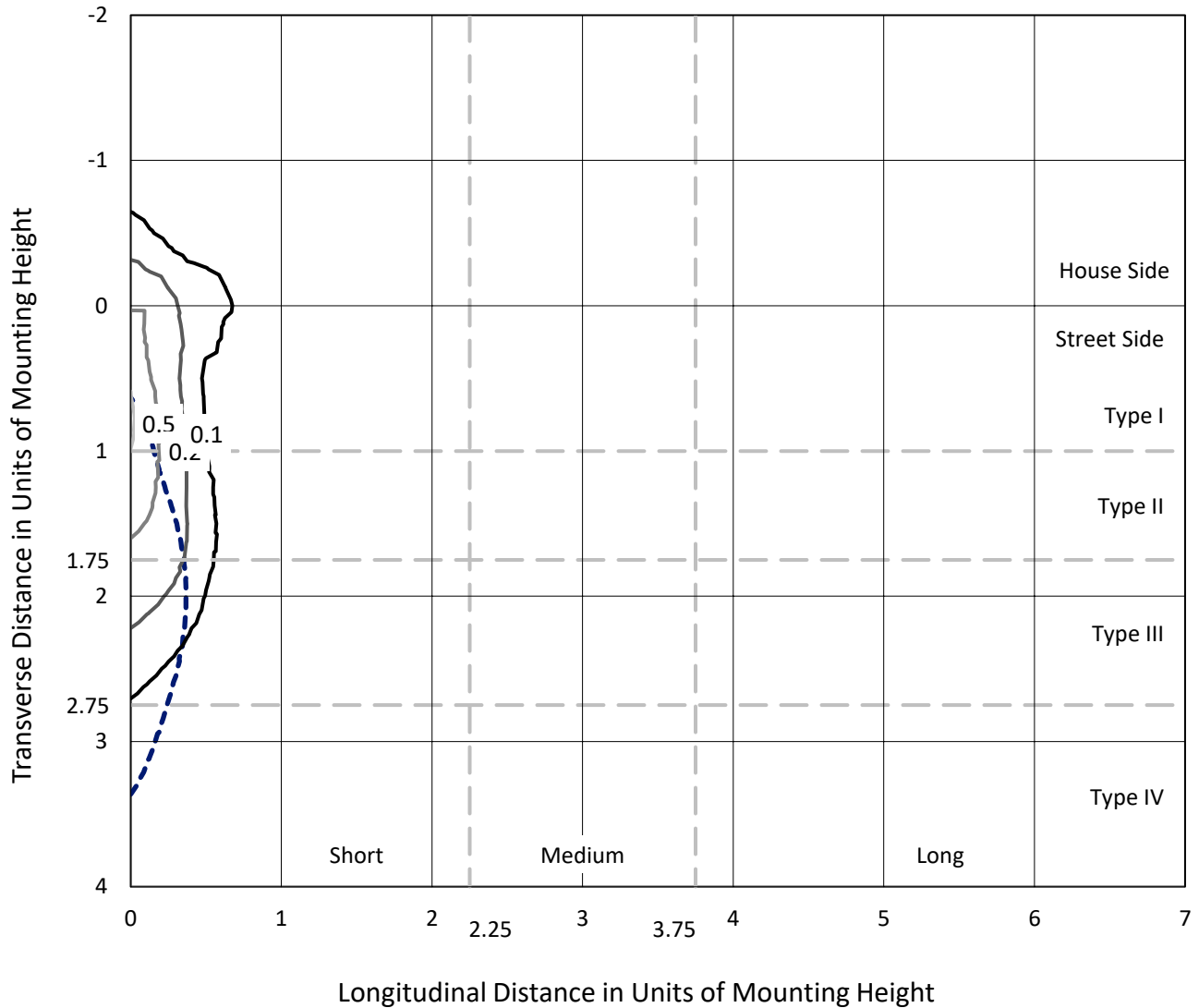
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

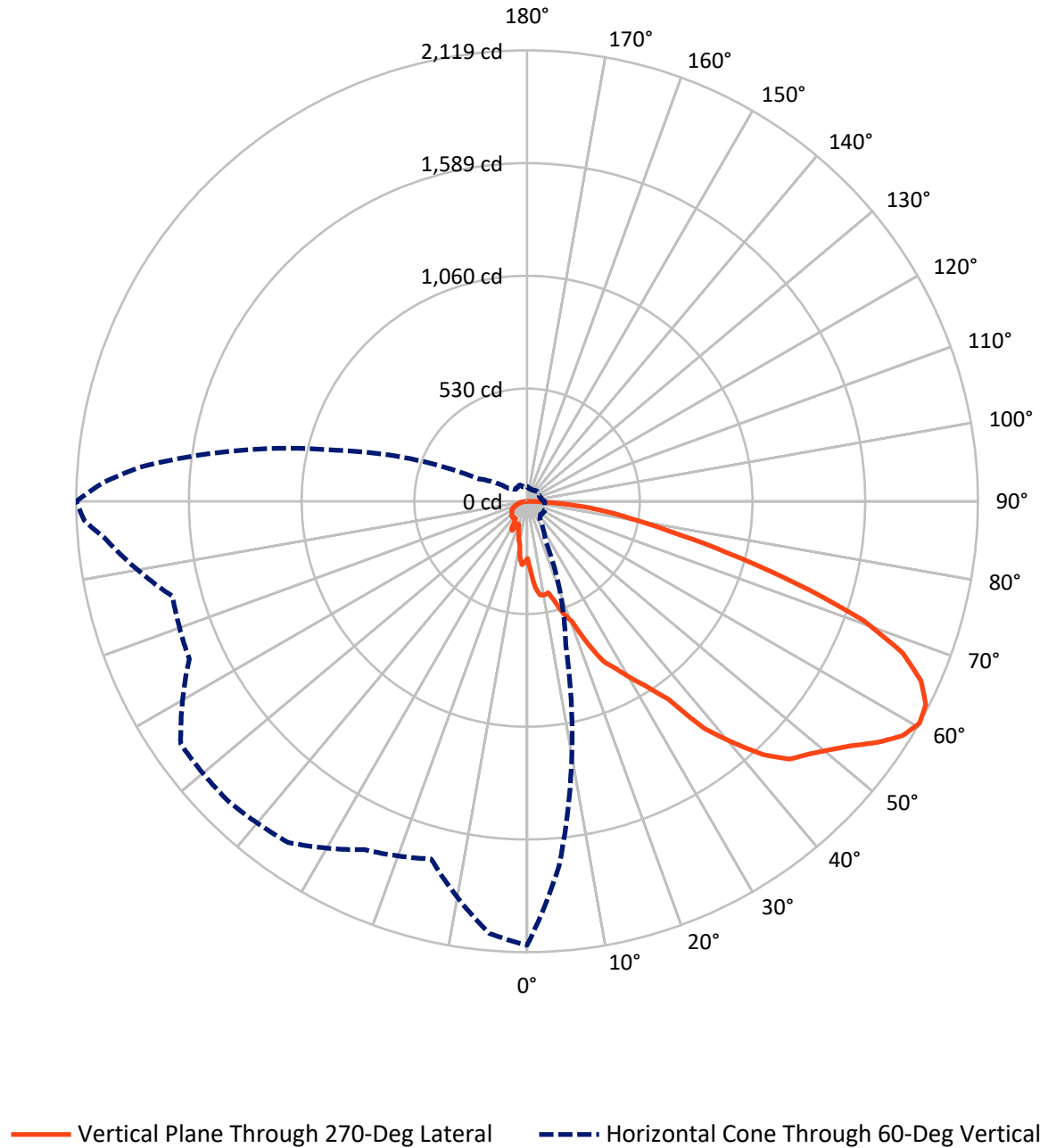
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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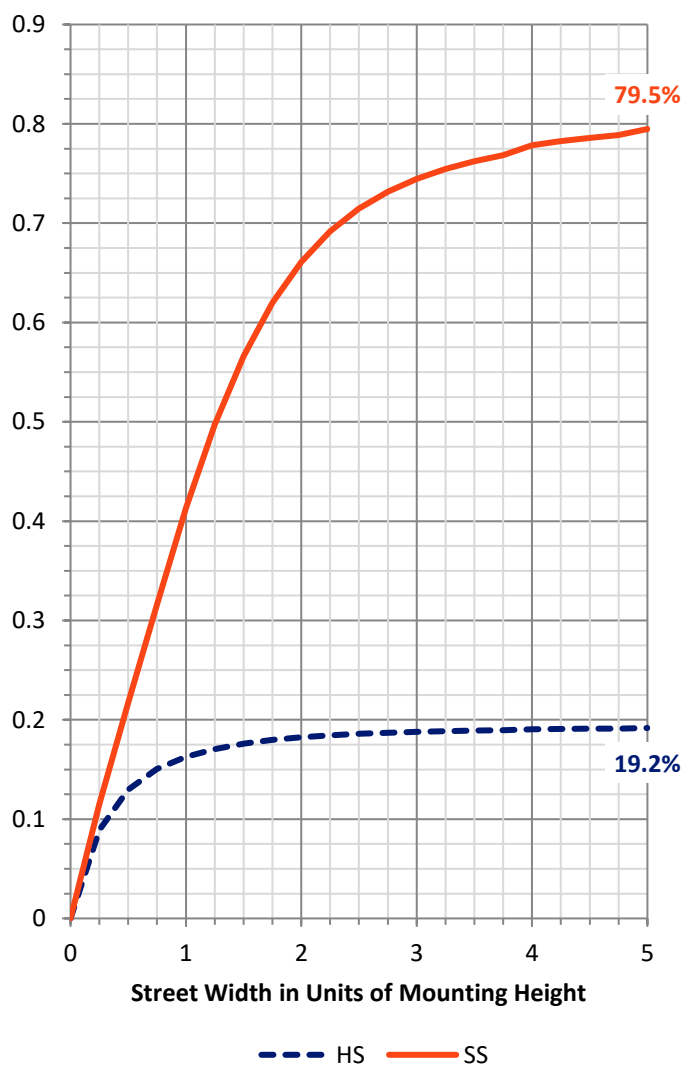
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	492.9	0.0	492.9
	% Fixture	19.4	0.0	19.4
Street Side	Lumens	2052.1	0.0	2052.1
	% Fixture	80.6	0.0	80.6
Total	Lumens	2545.0	0.0	2545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	1.2
10°-20°	89.4	3.5
20°-30°	157.9	6.2
30°-40°	245.9	9.7
40°-50°	404.8	15.9
50°-60°	577.8	22.7
60°-70°	612.6	24.1
70°-80°	338.4	13.3
80°-90°	87.5	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°	2545.0	100.0
0°-180°	2545.0	100.0

Coefficient of Utilization



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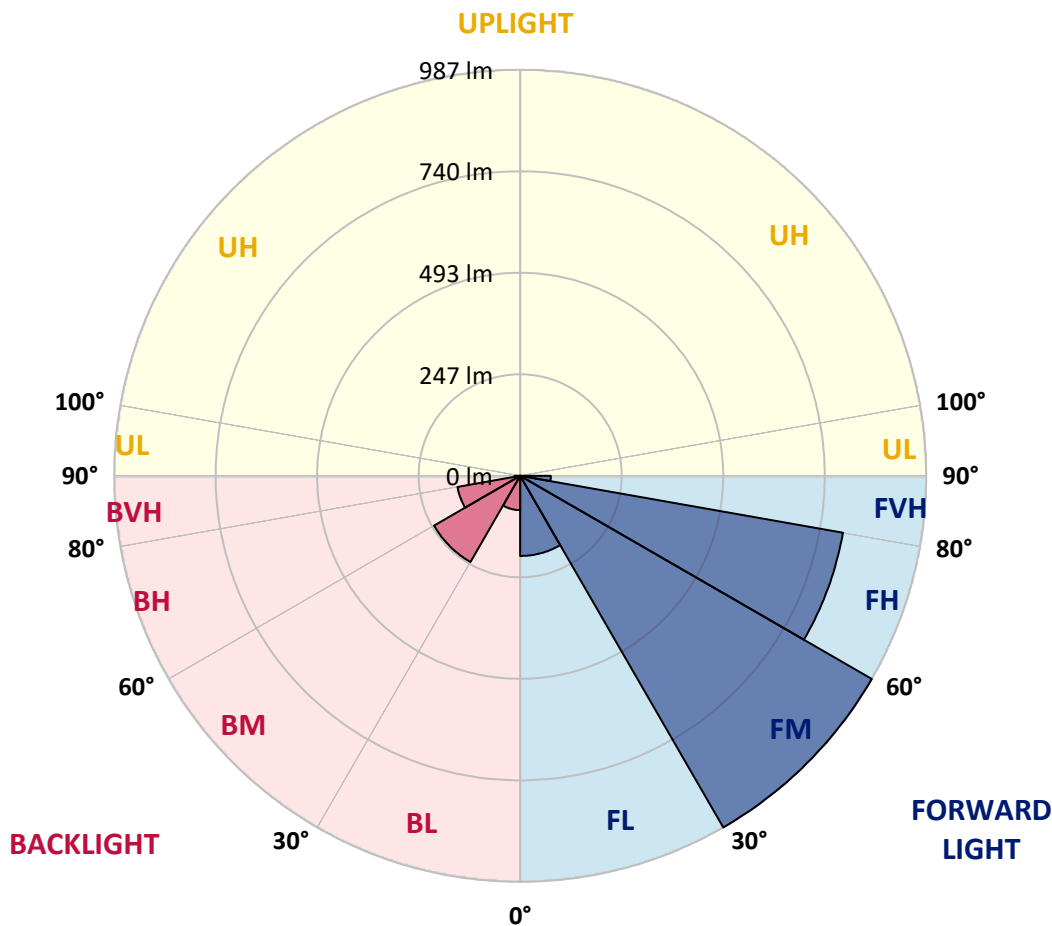
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.7	7.7			
FM (30°-60°)	986.6	38.8			
FH (60°-80°)	796.3	31.3			G1/1800
FVH (80°-90°)	74.4	2.9			G1/100
BL (0°-30°)	83.3	3.3	B0/110		
BM (30°-60°)	241.8	9.5	B1/1000		
BH (60°-80°)	154.7	6.1	B1/500		G1/500
BVH (80°-90°)	13.1	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-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°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	359.5	361.7	363.8	359.6	355.4	351.1	346.9	340.6	334.1	327.8	321.4
5°	431.7	423.6	415.3	412.0	408.8	405.4	402.1	399.0	395.9	392.7	389.6
7.5°	454.3	442.7	431.0	426.1	421.1	416.0	411.1	400.0	388.9	377.6	366.5
10°	429.5	417.4	405.2	400.4	395.4	390.6	385.7	372.1	358.6	345.0	331.4
12.5°	449.5	437.2	424.7	409.4	394.1	378.6	363.3	355.8	348.2	340.6	333.0
15°	468.8	452.1	435.3	420.0	404.7	389.2	373.9	358.9	343.8	328.7	313.6
17.5°	539.2	511.4	483.6	456.0	428.2	400.5	372.7	355.3	337.7	320.3	302.8
20°	625.1	586.4	547.6	505.6	463.5	421.5	379.4	357.4	335.5	313.5	291.5
22.5°	727.2	678.4	629.6	576.6	523.6	470.5	417.5	385.7	353.8	321.8	289.9
25°	808.4	761.4	714.5	647.3	580.1	512.9	445.7	409.5	373.3	337.0	300.8
27.5°	887.2	812.5	737.6	660.6	583.8	506.8	429.9	396.4	362.9	329.5	296.0
30°	953.8	894.5	835.2	734.8	634.3	533.8	433.3	392.2	351.1	309.9	268.8
32.5°	1051.2	966.6	881.9	777.1	672.4	567.6	462.9	410.2	357.6	305.0	252.4
35°	1165.3	1077.3	989.4	859.8	730.3	600.7	471.1	415.4	359.6	303.9	248.0
37.5°	1377.9	1222.8	1067.7	926.2	784.8	643.2	501.8	437.0	372.3	307.5	242.7
40°	1495.1	1351.8	1208.5	1032.2	855.9	679.5	503.3	437.0	370.7	304.5	238.2
42.5°	1651.4	1470.1	1288.8	1098.2	907.7	717.1	526.5	453.1	379.7	306.2	232.9
45°	1746.6	1544.6	1342.5	1138.8	935.1	731.4	527.7	453.2	378.7	304.3	229.8
47.5°	1808.0	1614.0	1420.0	1200.7	981.4	762.1	542.8	463.7	384.5	305.5	226.3
50°	1866.2	1674.1	1481.9	1254.2	1026.7	799.0	571.3	485.0	398.6	312.2	225.8
52.5°	1937.6	1760.7	1583.7	1339.4	1095.1	850.9	606.5	512.5	418.5	324.5	230.5
55°	2041.5	1867.2	1692.7	1430.6	1168.3	906.2	644.0	539.6	435.3	330.9	226.6
57.5°	2108.8	1932.0	1755.2	1487.9	1220.6	953.2	685.8	570.2	454.6	338.8	223.2
60°	2086.4	1904.1	1721.6	1466.8	1212.0	957.1	702.3	577.4	452.6	327.7	202.8
62.5°	1987.6	1793.8	1600.0	1371.7	1143.5	915.2	687.0	560.0	433.1	306.1	179.1
65°	1849.5	1649.1	1448.6	1242.7	1036.8	830.9	624.9	509.7	394.3	279.1	163.7
67.5°	1680.0	1471.1	1262.1	1079.8	897.4	715.0	532.7	436.3	340.1	243.7	147.4
70°	1467.4	1262.1	1056.8	899.1	741.3	583.6	425.8	353.3	280.9	208.4	135.9
72.5°	1179.5	1002.3	825.2	701.0	576.9	452.7	328.6	278.2	227.9	177.5	127.1
75°	838.9	734.8	630.6	534.0	437.4	340.7	244.1	211.5	178.9	146.3	113.6
77.5°	596.2	534.8	473.4	397.6	321.9	246.2	170.5	151.3	132.3	113.2	94.0
80°	440.8	389.5	338.2	281.2	224.1	167.0	109.9	100.6	91.3	81.9	72.5
82.5°	290.2	267.1	243.8	198.6	153.4	108.2	63.0	59.5	56.1	52.6	49.2
85°	130.0	137.2	144.4	116.7	88.9	61.3	33.5	31.9	30.3	28.7	27.1
87.5°	12.5	18.4	24.3	20.9	17.3	13.8	10.3	10.1	10.1	10.0	9.9
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°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	323.2	324.9	326.6	328.3	326.5	324.6	322.7	320.8	318.5	316.1	313.6
5°	384.4	379.1	373.9	368.6	360.7	352.8	344.8	336.9	335.9	334.8	333.8
7.5°	356.8	347.1	337.4	327.6	315.2	303.0	290.7	278.3	274.6	270.9	267.2
10°	324.9	318.2	311.7	305.0	297.3	289.7	281.9	274.2	264.1	253.9	243.7
12.5°	322.2	311.3	300.3	289.4	284.7	280.0	275.3	270.7	261.8	252.9	243.8
15°	304.9	296.0	287.2	278.3	271.5	264.7	257.9	251.1	244.0	236.7	229.5
17.5°	292.6	282.5	272.4	262.3	254.5	246.7	238.8	231.0	222.4	213.6	204.9
20°	279.9	268.4	256.8	245.2	235.3	225.6	215.7	205.8	196.3	186.9	177.4
22.5°	274.7	259.5	244.3	229.1	218.8	208.3	197.9	187.4	178.6	169.9	161.1
25°	282.6	264.6	246.4	228.3	214.3	200.2	186.3	172.2	164.9	157.6	150.2
27.5°	273.4	250.6	228.0	205.3	190.4	175.3	160.3	145.3	144.2	143.0	141.8
30°	245.0	221.1	197.3	173.4	159.7	145.9	132.2	118.3	115.7	113.0	110.4
32.5°	228.0	203.7	179.4	155.0	142.8	130.4	118.2	105.9	102.9	99.9	97.0
35°	221.6	195.2	168.7	142.3	131.8	121.3	110.8	100.3	98.2	96.2	94.1
37.5°	216.4	190.2	163.9	137.6	127.5	117.4	107.1	97.0	95.4	93.8	92.2
40°	211.5	184.9	158.2	131.6	122.5	113.6	104.6	95.6	94.6	93.6	92.5
42.5°	207.0	181.2	155.3	129.5	121.4	113.5	105.5	97.5	96.5	95.5	94.5
45°	204.6	179.4	154.2	129.0	123.2	117.4	111.4	105.6	103.3	100.9	98.5
47.5°	202.7	179.1	155.5	131.9	125.9	119.8	113.8	107.7	105.6	103.5	101.3
50°	203.1	180.5	157.7	135.0	127.7	120.3	113.0	105.6	105.4	105.1	104.9
52.5°	206.4	182.5	158.4	134.3	126.4	118.5	110.4	102.5	104.1	105.6	107.2
55°	201.6	176.6	151.6	126.6	119.1	111.7	104.1	96.6	98.7	100.7	102.8
57.5°	196.2	169.1	142.1	115.0	109.3	103.6	97.8	92.2	94.4	96.7	98.9
60°	178.1	153.4	128.7	104.0	100.2	96.4	92.5	88.7	89.7	90.7	91.7
62.5°	158.4	137.5	116.7	95.9	92.9	89.8	86.8	83.8	83.8	83.9	83.9
65°	145.8	127.9	109.9	92.0	88.7	85.4	81.9	78.6	78.1	77.6	77.1
67.5°	133.2	119.1	104.9	90.7	85.9	81.2	76.3	71.5	70.9	70.4	69.8
70°	123.3	110.7	98.1	85.5	80.0	74.7	69.3	63.9	63.4	63.0	62.5
72.5°	115.3	103.5	91.7	79.8	74.1	68.3	62.6	56.8	56.5	56.1	55.6
75°	103.1	92.8	82.3	71.8	66.2	60.8	55.2	49.7	49.2	48.8	48.3
77.5°	85.4	76.6	67.9	59.2	54.8	50.6	46.3	42.0	41.8	41.5	41.1
80°	65.7	58.9	52.0	45.2	42.4	39.4	36.6	33.6	33.5	33.4	33.1
82.5°	45.1	41.0	36.9	32.9	30.8	28.5	26.4	24.2	24.3	24.5	24.6
85°	25.7	24.2	22.9	21.4	19.6	18.0	16.3	14.6	14.9	15.3	15.6
87.5°	9.4	8.9	8.4	7.9	7.0	6.3	5.4	4.6	4.8	5.2	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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: P596488
 CATALOG NUMBER: MSA-SA1A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	311.3	307.6	303.9	300.2	296.5	288.8	281.3	273.6	266.0	270.7	275.5
5°	332.7	326.4	319.9	313.6	307.2	303.6	300.1	296.5	292.9	294.7	296.7
7.5°	263.5	259.8	256.0	252.2	248.4	246.8	245.3	243.7	242.1	246.7	251.3
10°	233.5	228.3	223.1	217.8	212.6	209.5	206.4	203.3	200.2	201.5	202.7
12.5°	235.0	227.3	219.6	212.0	204.3	199.7	195.2	190.6	186.0	187.1	188.3
15°	222.2	214.3	206.4	198.5	190.6	185.3	179.9	174.5	169.1	167.3	165.3
17.5°	196.2	187.5	178.9	170.2	161.6	158.0	154.4	150.8	147.2	145.3	143.3
20°	167.9	159.8	151.8	143.8	135.8	133.3	130.8	128.2	125.8	124.5	123.2
22.5°	152.3	147.4	142.3	137.4	132.3	129.5	126.7	123.9	121.1	119.7	118.2
25°	142.9	143.9	145.0	146.0	147.0	145.8	144.4	143.2	141.8	142.3	142.7
27.5°	140.7	142.8	145.0	147.1	149.2	150.3	151.4	152.6	153.7	154.0	154.4
30°	107.7	108.8	109.8	110.9	111.9	115.0	118.1	121.1	124.1	129.0	133.9
32.5°	94.0	93.6	93.3	92.8	92.4	93.1	93.9	94.5	95.2	97.0	98.8
35°	92.0	91.2	90.2	89.3	88.3	88.7	89.1	89.4	89.8	91.2	92.5
37.5°	90.5	90.2	89.9	89.6	89.2	90.1	90.8	91.7	92.4	93.5	94.6
40°	91.5	91.4	91.3	91.0	90.9	91.4	91.9	92.4	92.9	94.4	95.9
42.5°	93.5	93.5	93.4	93.4	93.3	93.8	94.1	94.6	95.0	95.9	96.7
45°	96.1	95.9	95.7	95.5	95.2	95.1	95.1	95.0	94.9	95.4	96.0
47.5°	99.2	98.3	97.3	96.5	95.5	95.2	94.9	94.6	94.3	94.5	94.7
50°	104.6	102.3	100.1	97.7	95.4	94.7	94.1	93.5	92.9	92.8	92.8
52.5°	108.7	105.2	101.8	98.3	94.9	93.8	92.6	91.5	90.4	90.2	90.1
55°	104.8	102.2	99.7	97.1	94.5	92.9	91.2	89.6	87.8	87.5	87.1
57.5°	101.2	99.6	98.0	96.4	94.7	93.1	91.4	89.8	88.1	87.2	86.3
60°	92.6	92.6	92.8	92.8	92.8	91.0	89.3	87.6	85.9	85.0	84.2
62.5°	83.9	85.2	86.5	87.8	89.1	86.7	84.2	81.9	79.4	78.8	78.3
65°	76.6	77.0	77.5	77.8	78.2	76.3	74.5	72.6	70.8	70.4	69.9
67.5°	69.2	69.1	68.9	68.7	68.6	67.4	66.2	65.1	63.9	63.4	62.9
70°	62.0	61.9	61.8	61.5	61.4	60.4	59.4	58.4	57.4	57.1	56.7
72.5°	55.2	55.1	54.8	54.7	54.5	53.6	52.9	52.0	51.1	50.6	50.2
75°	47.8	47.6	47.3	47.1	46.8	46.1	45.3	44.5	43.7	43.2	42.7
77.5°	40.9	40.5	40.1	39.7	39.3	38.7	37.9	37.3	36.6	35.9	35.5
80°	33.0	32.7	32.5	32.1	31.9	31.3	30.6	29.9	29.3	28.5	27.9
82.5°	24.7	24.6	24.3	24.2	24.0	23.3	22.7	22.1	21.5	20.8	20.0
85°	15.9	15.8	15.7	15.6	15.4	14.9	14.6	14.1	13.6	12.8	12.2
87.5°	5.7	5.4	5.3	5.1	4.8	4.7	4.4	4.3	4.1	3.7	3.3
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: P596488
 CATALOG NUMBER: MSA-SA1A-827-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: P596488
 CATALOG NUMBER: MSA-SA1A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	280.2	284.9	285.0	285.0	287.2	289.3	285.0	280.7	276.2	271.9	267.6
5°	298.6	300.4	299.9	299.3	296.6	293.9	291.0	288.2	285.4	282.5	282.6
7.5°	255.8	260.4	264.1	267.7	264.2	260.8	258.9	257.1	255.2	253.4	253.1
10°	203.8	205.1	206.5	207.9	205.8	203.6	207.3	211.0	214.6	218.3	214.2
12.5°	189.4	190.5	187.9	185.2	184.3	183.4	182.6	181.6	180.7	179.7	179.2
15°	163.4	161.5	159.5	157.4	156.9	156.3	155.6	154.9	154.3	153.5	151.3
17.5°	141.3	139.3	136.0	132.5	131.2	129.7	129.3	129.0	128.5	128.1	126.0
20°	121.9	120.6	119.7	118.7	117.4	116.0	114.6	113.3	111.8	110.4	108.5
22.5°	116.9	115.4	114.3	113.0	112.8	112.5	110.1	107.5	105.0	102.4	101.3
25°	143.2	143.5	136.7	129.8	129.2	128.6	124.1	119.6	115.1	110.6	106.7
27.5°	154.7	155.0	154.8	154.5	152.6	150.5	142.9	135.3	127.7	120.1	114.6
30°	138.7	143.5	145.4	147.2	145.9	144.4	136.5	128.7	120.8	112.9	109.3
32.5°	100.6	102.3	105.4	108.3	109.9	111.4	109.0	106.5	104.0	101.5	100.9
35°	93.8	95.1	95.7	96.4	95.4	94.4	92.5	90.7	88.7	86.8	86.5
37.5°	95.6	96.7	98.0	99.2	96.5	93.6	91.5	89.6	87.5	85.4	83.6
40°	97.3	98.8	99.6	100.3	97.6	94.9	92.3	89.8	87.2	84.6	82.9
42.5°	97.6	98.5	99.8	101.2	97.3	93.4	91.0	88.6	86.2	83.8	82.0
45°	96.5	97.0	98.2	99.4	95.0	90.4	88.3	86.1	84.0	81.8	80.3
47.5°	94.9	95.1	96.1	97.0	92.3	87.5	85.5	83.5	81.4	79.4	77.9
50°	92.6	92.5	93.3	93.9	89.1	84.2	82.3	80.4	78.4	76.5	75.2
52.5°	89.8	89.6	90.3	90.9	85.9	80.8	79.1	77.5	75.7	74.0	73.0
55°	86.6	86.2	86.8	87.5	82.5	77.5	76.0	74.4	72.9	71.3	70.4
57.5°	85.4	84.5	84.9	85.2	79.7	74.1	72.6	71.2	69.7	68.2	67.6
60°	83.4	82.5	82.9	83.1	77.2	71.2	69.8	68.3	67.0	65.5	64.9
62.5°	77.7	77.1	77.6	78.1	72.8	67.3	66.1	65.0	63.7	62.5	61.6
65°	69.5	69.1	70.0	71.0	66.5	61.9	61.1	60.4	59.5	58.8	57.9
67.5°	62.4	61.9	62.9	63.9	60.5	57.2	56.5	55.7	55.0	54.2	53.7
70°	56.3	56.0	56.8	57.7	54.8	52.0	51.3	50.6	49.9	49.2	48.8
72.5°	49.5	49.0	50.2	51.1	48.8	46.3	45.7	45.0	44.3	43.6	43.4
75°	42.2	41.8	42.7	43.6	42.0	40.3	39.7	39.0	38.4	37.8	37.7
77.5°	34.8	34.2	35.2	36.1	35.1	34.0	33.5	32.9	32.4	31.7	31.7
80°	27.2	26.4	27.2	27.8	27.4	27.1	26.7	26.2	25.8	25.3	25.4
82.5°	19.3	18.5	18.9	19.3	19.5	19.8	19.8	19.8	19.8	19.8	19.8
85°	11.5	10.7	10.9	11.0	11.4	11.7	11.9	12.0	12.1	12.2	12.4
87.5°	3.0	2.6	2.3	2.0	2.3	2.6	2.8	3.0	3.2	3.3	3.3
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: P596488
 CATALOG NUMBER: MSA-SA1A-827-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: P596488
 CATALOG NUMBER: MSA-SA1A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	263.2	258.8	254.5	257.2	259.8	262.5	265.1	265.2	265.2	265.3	265.3
5°	282.9	283.0	283.1	280.5	278.1	275.5	272.9	271.5	270.2	268.7	267.3
7.5°	252.7	252.5	252.1	249.7	247.2	244.7	242.2	236.3	230.3	224.3	218.3
10°	210.0	205.9	201.7	200.7	199.9	198.9	197.9	196.3	194.8	193.2	191.6
12.5°	178.7	178.3	177.8	175.2	172.6	169.9	167.3	167.3	167.3	167.3	167.3
15°	149.0	146.8	144.4	143.2	141.8	140.6	139.2	138.6	138.0	137.4	136.7
17.5°	123.8	121.7	119.5	119.2	119.0	118.7	118.5	117.8	117.2	116.6	116.0
20°	106.5	104.5	102.5	103.3	104.0	104.6	105.4	104.8	104.1	103.4	102.8
22.5°	100.1	98.9	97.7	97.1	96.5	95.7	95.1	95.1	95.2	95.2	95.2
25°	103.0	99.2	95.4	93.5	91.7	89.7	87.8	87.1	86.5	85.7	85.0
27.5°	109.2	103.6	98.2	95.0	91.8	88.6	85.4	84.0	82.5	81.2	79.7
30°	105.6	102.0	98.3	94.6	90.9	87.2	83.5	81.8	80.0	78.2	76.5
32.5°	100.3	99.6	98.9	95.5	92.0	88.4	85.0	84.2	83.6	82.9	82.1
35°	86.0	85.6	85.1	84.2	83.4	82.5	81.7	80.7	79.7	78.7	77.7
37.5°	82.0	80.3	78.6	78.2	77.8	77.5	77.1	76.7	76.3	75.8	75.5
40°	81.2	79.4	77.7	77.1	76.5	75.7	75.1	75.2	75.5	75.6	75.7
42.5°	80.2	78.4	76.6	76.1	75.6	75.1	74.6	74.7	75.0	75.1	75.2
45°	78.9	77.5	76.0	75.1	74.4	73.5	72.6	73.4	74.1	74.7	75.5
47.5°	76.5	74.9	73.4	72.9	72.4	71.8	71.3	72.0	72.8	73.4	74.1
50°	73.9	72.6	71.3	71.2	71.0	70.8	70.7	71.2	71.6	72.1	72.6
52.5°	71.9	70.9	69.8	69.8	69.7	69.7	69.5	70.0	70.5	70.9	71.4
55°	69.7	68.8	67.9	68.1	68.3	68.4	68.6	69.1	69.7	70.2	70.7
57.5°	66.8	66.2	65.5	66.0	66.3	66.8	67.2	67.6	68.1	68.4	68.8
60°	64.1	63.5	62.8	63.2	63.9	64.4	64.9	65.2	65.6	66.0	66.3
62.5°	60.8	59.8	58.9	59.7	60.3	61.0	61.6	61.9	62.3	62.5	62.8
65°	57.2	56.3	55.5	56.0	56.5	56.8	57.3	57.7	58.1	58.4	58.8
67.5°	53.1	52.6	52.0	52.4	52.7	53.1	53.5	53.6	53.6	53.7	53.7
70°	48.3	47.9	47.4	47.7	48.1	48.3	48.5	48.5	48.5	48.4	48.4
72.5°	43.2	43.0	42.7	42.9	43.1	43.2	43.4	43.2	43.1	43.0	42.9
75°	37.6	37.4	37.3	37.4	37.7	37.8	37.9	37.8	37.6	37.4	37.2
77.5°	31.9	31.9	31.9	31.9	32.0	32.0	32.0	31.7	31.5	31.3	31.0
80°	25.6	25.7	25.8	25.8	25.8	25.8	25.8	25.6	25.3	25.0	24.7
82.5°	19.8	19.8	19.8	19.8	19.9	19.9	19.9	19.3	18.8	18.2	17.5
85°	12.4	12.5	12.5	12.6	12.7	12.7	12.8	12.0	11.2	10.4	9.5
87.5°	3.3	3.3	3.3	3.3	3.3	3.2	3.2	2.5	1.6	0.9	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):

	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: P596488

CATALOG NUMBER: MSA-SA1A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	266.1	266.8	267.4	268.2	268.3	268.4	268.4	268.6	266.0	263.4	260.6
5°	269.2	270.9	272.8	274.5	274.1	273.7	273.4	273.0	272.3	271.6	270.9
7.5°	216.9	215.7	214.3	213.0	214.1	215.2	216.3	217.4	217.9	218.4	218.8
10°	188.5	185.4	182.3	179.2	177.5	175.7	173.9	172.1	171.8	171.7	171.5
12.5°	164.0	160.7	157.5	154.2	153.2	152.1	151.1	150.0	151.0	151.9	152.8
15°	135.4	134.2	132.8	131.4	132.5	133.7	134.8	135.9	136.9	137.7	138.7
17.5°	115.4	114.9	114.3	113.6	114.6	115.7	116.7	117.7	119.9	122.2	124.4
20°	102.3	101.9	101.4	100.9	100.6	100.1	99.7	99.2	102.4	105.5	108.7
22.5°	94.5	93.8	93.0	92.3	92.4	92.5	92.5	92.6	95.2	98.0	100.6
25°	84.7	84.5	84.2	84.0	84.7	85.5	86.1	86.8	89.2	91.5	93.8
27.5°	79.8	79.9	80.0	80.2	81.2	82.3	83.3	84.2	85.9	87.5	89.1
30°	77.1	77.8	78.4	79.1	79.4	79.8	80.2	80.5	82.1	83.6	85.2
32.5°	81.2	80.2	79.1	78.1	78.6	79.2	79.7	80.2	81.7	83.1	84.6
35°	77.3	76.8	76.5	76.0	76.6	77.2	77.7	78.3	79.7	80.9	82.3
37.5°	75.4	75.2	75.1	75.0	75.4	75.7	76.0	76.3	77.6	78.8	79.9
40°	75.2	74.6	74.1	73.5	73.9	74.2	74.5	74.9	76.3	77.8	79.3
42.5°	74.5	73.7	72.9	72.1	72.5	73.0	73.4	73.7	75.4	76.8	78.4
45°	74.4	73.3	72.0	70.9	71.4	71.9	72.4	72.9	74.1	75.4	76.5
47.5°	73.0	71.9	70.8	69.7	69.9	70.2	70.3	70.5	71.6	72.6	73.7
50°	71.9	71.0	70.3	69.4	69.1	68.8	68.4	68.1	68.9	69.8	70.7
52.5°	70.5	69.7	68.7	67.8	67.3	66.8	66.3	65.8	66.6	67.2	67.9
55°	69.7	68.6	67.6	66.5	65.8	65.2	64.6	64.0	64.5	64.9	65.3
57.5°	67.8	66.8	65.7	64.7	64.0	63.2	62.4	61.6	61.9	62.1	62.4
60°	65.3	64.2	63.2	62.1	61.3	60.4	59.4	58.6	58.7	58.9	59.0
62.5°	61.8	60.8	59.7	58.7	57.7	56.8	55.8	54.8	55.1	55.2	55.5
65°	57.8	56.7	55.7	54.6	53.7	52.9	51.9	51.0	51.3	51.5	51.6
67.5°	53.0	52.1	51.4	50.5	49.8	48.9	48.2	47.3	47.4	47.6	47.7
70°	47.8	47.1	46.4	45.7	45.1	44.5	43.9	43.2	43.2	43.4	43.4
72.5°	42.2	41.6	41.0	40.4	39.8	39.3	38.7	38.0	38.3	38.5	38.7
75°	36.6	36.1	35.5	34.8	34.3	33.8	33.2	32.7	33.0	33.2	33.4
77.5°	30.6	30.3	29.8	29.4	28.9	28.4	27.8	27.3	27.5	27.8	27.9
80°	24.5	24.2	23.8	23.6	23.1	22.6	22.1	21.6	21.7	21.7	21.9
82.5°	17.7	17.8	17.8	17.9	17.5	17.0	16.7	16.2	16.2	16.2	16.1
85°	9.9	10.4	10.7	11.1	10.7	10.4	10.0	9.6	9.5	9.5	9.4
87.5°	0.4	0.6	1.0	1.2	1.1	1.0	0.7	0.6	0.7	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P596488
 CATALOG NUMBER: MSA-SA1A-827-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: P596488
 CATALOG NUMBER: MSA-SA1A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	258.1	260.2	262.3	264.4	266.5	269.7	272.9	276.2	279.5	277.7	275.7
5°	270.2	271.4	272.8	274.0	275.2	278.8	282.3	286.6	290.8	290.3	289.7
7.5°	219.3	221.0	222.7	224.3	226.1	231.5	236.9	241.5	246.1	245.5	244.7
10°	171.2	174.8	178.5	182.1	185.7	190.1	194.4	198.3	202.1	208.5	214.8
12.5°	153.8	159.4	164.9	170.5	176.0	179.2	182.3	187.3	192.2	195.7	199.3
15°	139.6	144.8	150.0	155.2	160.3	160.6	160.8	166.0	171.2	174.2	177.0
17.5°	126.6	129.5	132.3	135.0	137.9	136.9	135.9	138.4	140.7	141.9	143.3
20°	111.8	113.8	115.7	117.7	119.7	121.1	122.3	123.8	125.1	123.9	122.5
22.5°	103.1	106.1	109.2	112.2	115.1	116.0	116.7	115.9	115.0	114.6	114.3
25°	96.1	99.7	103.4	107.0	110.6	112.3	114.0	114.8	115.4	114.0	112.7
27.5°	90.7	95.0	99.2	103.5	107.7	110.8	113.9	114.8	115.5	114.5	113.4
30°	86.7	91.4	96.1	100.8	105.5	110.2	114.8	118.8	122.8	122.4	122.0
32.5°	86.1	89.3	92.5	95.7	98.9	101.9	104.8	105.0	105.1	104.1	103.0
35°	83.5	85.6	87.7	89.8	91.9	93.8	95.5	95.2	95.0	94.0	93.0
37.5°	81.2	83.3	85.5	87.6	89.7	92.9	96.0	95.4	94.6	93.6	92.6
40°	80.8	83.1	85.5	87.7	90.1	93.0	96.0	95.4	94.7	93.5	92.3
42.5°	79.9	82.3	84.5	86.8	89.1	92.6	96.1	95.0	93.8	92.8	91.8
45°	77.7	79.8	81.9	84.0	86.1	89.9	93.8	92.4	91.0	90.7	90.2
47.5°	74.7	76.8	78.9	81.0	83.1	87.0	90.7	89.6	88.3	88.2	88.0
50°	71.5	73.5	75.6	77.6	79.6	83.4	87.1	86.1	85.1	85.2	85.2
52.5°	68.6	70.4	72.1	74.0	75.7	79.6	83.3	82.5	81.7	81.9	82.0
55°	65.7	67.2	68.7	70.2	71.6	75.4	79.1	77.9	76.8	77.2	77.6
57.5°	62.6	63.9	65.1	66.2	67.4	71.2	74.7	73.5	72.1	72.8	73.3
60°	59.2	60.3	61.4	62.4	63.5	66.8	70.0	68.9	67.7	68.6	69.3
62.5°	55.6	56.5	57.3	58.2	59.0	62.1	65.2	64.4	63.5	64.5	65.3
65°	51.9	52.5	53.2	53.9	54.5	57.4	60.3	59.7	59.0	59.9	60.8
67.5°	47.8	48.3	48.9	49.4	49.9	52.6	55.3	54.7	54.0	54.7	55.3
70°	43.4	43.9	44.2	44.7	45.1	47.6	50.0	49.2	48.2	48.9	49.5
72.5°	38.9	39.2	39.5	39.8	40.0	41.9	43.7	43.0	42.2	43.0	43.6
75°	33.6	33.8	34.1	34.3	34.6	36.2	37.7	36.8	35.8	36.6	37.3
77.5°	28.2	28.3	28.5	28.7	28.8	29.9	30.9	30.0	29.0	29.9	30.8
80°	21.9	22.0	22.1	22.1	22.2	22.6	23.0	22.4	21.6	22.7	23.8
82.5°	16.1	15.9	15.9	15.8	15.7	15.7	15.6	15.2	14.7	15.7	16.7
85°	9.3	9.1	8.9	8.8	8.5	8.2	7.8	7.7	7.5	8.4	9.3
87.5°	1.0	0.9	0.6	0.5	0.2	0.1	0.0	0.0	0.0	0.5	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P596488
 CATALOG NUMBER: MSA-SA1A-827-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: P596488
 CATALOG NUMBER: MSA-SA1A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	273.9	271.9	270.0	268.2	266.3	264.5	267.9	271.4	274.9	278.3	281.4
5°	289.2	288.6	287.0	285.5	283.9	282.3	283.1	284.1	285.0	285.8	287.7
7.5°	244.1	243.4	246.8	250.1	253.6	256.9	257.8	258.5	259.4	260.2	259.7
10°	221.2	227.5	229.1	230.6	232.2	233.7	236.2	238.7	241.0	243.5	244.8
12.5°	202.7	206.2	211.9	217.7	223.3	229.0	232.7	236.4	240.1	243.8	251.5
15°	180.0	182.8	187.1	191.5	195.8	200.1	205.4	210.9	216.2	221.5	229.9
17.5°	144.5	145.8	149.0	152.2	155.3	158.5	165.7	172.7	179.9	186.9	196.5
20°	121.3	119.9	119.9	120.1	120.1	120.1	127.2	134.3	141.4	148.5	161.2
22.5°	113.8	113.4	112.0	110.6	109.2	107.7	111.4	115.3	119.0	122.7	133.0
25°	111.2	109.8	108.1	106.4	104.6	102.9	105.2	107.6	109.9	112.3	120.4
27.5°	112.4	111.3	112.2	112.9	113.8	114.5	115.3	116.0	116.7	117.5	120.3
30°	121.7	121.3	122.7	123.9	125.3	126.5	124.8	123.2	121.4	119.7	120.7
32.5°	102.0	100.9	100.4	99.9	99.4	98.9	98.8	98.7	98.5	98.3	100.6
35°	92.0	91.0	90.3	89.6	88.7	88.0	88.3	88.6	88.9	89.2	91.7
37.5°	91.7	90.7	89.8	88.9	88.0	87.1	87.5	88.0	88.3	88.7	90.5
40°	91.0	89.8	89.3	88.8	88.3	87.8	88.1	88.3	88.4	88.7	90.1
42.5°	90.7	89.7	89.4	89.2	88.9	88.7	88.9	89.2	89.3	89.6	91.2
45°	89.8	89.3	89.6	89.8	90.1	90.3	90.3	90.3	90.3	90.3	92.0
47.5°	87.8	87.6	88.3	89.1	89.8	90.5	91.8	93.0	94.1	95.4	95.7
50°	85.4	85.4	86.6	87.8	88.9	90.2	93.1	96.0	98.9	101.8	99.9
52.5°	82.3	82.4	84.2	86.0	87.8	89.6	92.3	95.0	97.6	100.3	97.6
55°	77.8	78.2	80.5	82.8	85.1	87.3	89.4	91.5	93.6	95.7	92.9
57.5°	73.9	74.4	76.8	79.2	81.7	84.0	85.2	86.6	87.8	89.1	87.2
60°	70.2	70.9	74.1	77.3	80.4	83.6	82.6	81.7	80.5	79.6	79.4
62.5°	66.3	67.2	70.2	73.1	76.0	78.9	77.5	76.0	74.4	72.9	73.5
65°	61.5	62.4	63.7	65.1	66.3	67.7	67.6	67.6	67.4	67.3	68.6
67.5°	56.1	56.7	57.6	58.3	59.2	59.9	60.4	61.0	61.5	62.0	63.5
70°	50.3	50.9	51.8	52.5	53.4	54.1	54.7	55.3	55.8	56.5	57.9
72.5°	44.3	45.0	45.8	46.7	47.4	48.3	48.8	49.3	49.7	50.2	51.4
75°	38.0	38.8	39.7	40.4	41.3	42.0	42.4	42.7	43.1	43.5	44.6
77.5°	31.6	32.5	33.4	34.2	35.1	35.9	36.1	36.2	36.3	36.4	37.4
80°	24.8	25.9	26.8	27.7	28.5	29.4	29.4	29.4	29.4	29.4	29.9
82.5°	17.7	18.7	19.6	20.5	21.5	22.4	22.4	22.2	22.2	22.1	22.1
85°	10.1	11.0	11.6	12.4	13.0	13.6	13.6	13.6	13.5	13.5	13.2
87.5°	1.6	2.1	2.3	2.7	3.0	3.2	3.1	3.1	3.0	2.8	2.5
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: P596488
 CATALOG NUMBER: MSA-SA1A-827-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: P596488
 CATALOG NUMBER: MSA-SA1A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	284.5	287.6	290.7	290.2	289.7	289.2	288.7	290.5	292.3	294.1	295.9
5°	289.4	291.3	293.0	294.4	295.7	297.1	298.4	304.7	310.9	317.2	323.4
7.5°	259.2	258.5	258.1	263.9	269.8	275.6	281.4	289.4	297.5	305.5	313.5
10°	246.2	247.6	248.9	251.3	253.7	256.1	258.4	266.3	274.2	282.1	290.0
12.5°	259.0	266.7	274.2	276.1	278.1	279.9	281.8	283.4	285.0	286.5	288.1
15°	238.3	246.7	255.1	259.9	264.7	269.4	274.2	286.3	298.3	310.4	322.4
17.5°	206.0	215.7	225.2	237.1	248.9	260.8	272.6	283.7	294.9	305.9	317.0
20°	173.9	186.5	199.3	212.2	225.1	238.0	250.9	261.8	272.6	283.4	294.2
22.5°	143.3	153.7	163.9	179.7	195.4	211.2	226.9	247.2	267.3	287.6	307.7
25°	128.5	136.6	144.7	161.0	177.3	193.4	209.8	236.1	262.3	288.6	314.8
27.5°	123.3	126.1	129.0	143.8	158.5	173.3	188.0	216.4	244.8	273.1	301.5
30°	121.7	122.7	123.7	135.3	146.9	158.5	170.1	198.1	226.3	254.3	282.4
32.5°	102.7	104.9	107.0	118.3	129.6	140.9	152.2	180.5	208.6	236.9	265.1
35°	94.1	96.6	99.1	110.2	121.3	132.3	143.4	173.2	203.1	232.9	262.6
37.5°	92.4	94.3	96.1	108.7	121.3	133.9	146.5	176.6	206.8	236.9	267.1
40°	91.5	92.9	94.3	106.5	118.8	131.1	143.3	174.9	206.4	238.0	269.5
42.5°	92.6	94.3	95.7	106.9	117.8	129.0	140.0	172.7	205.3	238.0	270.7
45°	93.6	95.4	97.0	107.3	117.7	128.1	138.5	173.4	208.3	243.2	278.1
47.5°	96.0	96.4	96.6	105.6	114.5	123.5	132.4	168.0	203.6	239.0	274.6
50°	98.0	96.1	94.1	103.5	112.8	122.2	131.4	165.2	198.9	232.5	266.2
52.5°	94.9	92.0	89.3	99.4	109.6	119.6	129.7	163.4	197.3	231.0	264.7
55°	90.2	87.3	84.5	94.7	105.0	115.3	125.5	159.1	192.8	226.4	260.0
57.5°	85.5	83.6	81.8	90.2	98.7	107.1	115.5	151.9	188.3	224.7	261.0
60°	79.3	79.1	78.9	85.5	92.2	98.7	105.2	140.9	176.5	212.2	247.8
62.5°	74.0	74.6	75.1	80.4	85.7	90.9	96.2	130.7	165.3	199.7	234.2
65°	69.9	71.2	72.4	78.4	84.5	90.4	96.5	125.4	154.3	183.2	212.1
67.5°	65.0	66.5	67.9	75.8	83.8	91.7	99.6	123.4	147.2	171.1	194.9
70°	59.3	60.8	62.1	72.3	82.3	92.4	102.4	123.5	144.8	165.9	187.0
72.5°	52.6	53.9	55.1	66.0	76.8	87.7	98.6	116.5	134.4	152.2	170.1
75°	45.8	46.9	48.1	57.4	66.8	76.2	85.6	99.4	113.2	127.0	140.7
77.5°	38.3	39.3	40.1	46.4	52.7	59.0	65.3	76.0	86.5	97.1	107.6
80°	30.4	30.9	31.4	35.1	38.7	42.4	46.0	53.0	60.0	67.0	74.0
82.5°	22.2	22.2	22.2	24.6	27.1	29.4	31.7	35.3	38.8	42.4	45.8
85°	13.0	12.6	12.4	14.0	15.6	17.2	18.8	20.3	21.7	23.2	24.7
87.5°	2.1	1.6	1.2	2.2	3.2	4.2	5.2	5.7	6.3	6.8	7.3
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



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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: P596488

CATALOG NUMBER: MSA-SA1A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	291.7	287.6	283.4	279.2	285.4	291.5	297.7	303.9	320.3	330.1	330.7
5°	328.6	333.8	339.0	344.2	349.3	354.5	359.6	364.8	391.5	407.9	411.0
7.5°	322.0	330.7	339.2	347.7	362.4	377.1	391.8	406.5	429.1	445.4	456.2
10°	300.7	311.3	321.9	332.5	350.0	367.5	384.9	402.3	426.3	447.8	458.1
12.5°	305.0	321.9	338.7	355.6	370.7	385.9	401.0	416.0	432.6	440.8	459.4
15°	334.1	345.9	357.6	369.4	392.1	414.7	437.4	460.0	469.4	488.1	504.9
17.5°	338.6	360.1	381.7	403.2	431.0	458.8	486.6	514.4	531.8	555.9	576.1
20°	324.8	355.1	385.7	416.0	451.9	487.8	523.6	559.5	581.6	601.8	633.2
22.5°	341.3	374.9	408.4	442.0	489.6	537.0	584.5	632.0	678.2	723.4	744.6
25°	359.6	404.6	449.4	494.2	553.7	613.0	672.4	731.7	791.1	833.5	857.9
27.5°	346.7	391.8	437.0	482.1	555.6	629.3	702.8	776.3	839.9	890.9	911.9
30°	337.7	393.1	448.4	503.8	590.0	676.2	762.4	848.7	907.5	964.4	995.3
32.5°	336.1	407.2	478.1	549.1	649.5	749.8	850.3	950.6	989.6	1040.1	1081.8
35°	340.6	418.6	496.6	574.5	689.7	804.8	919.8	1034.9	1090.4	1140.4	1176.9
37.5°	354.2	441.2	528.2	615.3	754.0	892.9	1031.6	1170.3	1263.3	1354.9	1371.2
40°	361.8	454.2	546.5	638.8	800.1	961.4	1122.8	1284.1	1391.1	1491.5	1498.3
42.5°	370.8	471.0	571.1	671.3	850.1	1029.1	1208.0	1386.9	1519.3	1627.3	1630.5
45°	381.2	484.2	587.4	690.4	877.2	1063.8	1250.6	1437.3	1597.4	1728.6	1696.6
47.5°	385.3	496.1	606.8	717.5	916.6	1115.6	1314.7	1513.7	1657.4	1776.7	1746.1
50°	386.9	507.7	628.4	749.1	955.4	1161.8	1368.1	1574.4	1720.5	1836.9	1790.0
52.5°	396.9	529.1	661.3	793.4	1008.4	1223.3	1438.3	1653.2	1797.0	1908.8	1850.5
55°	410.4	560.7	710.9	861.3	1083.7	1306.1	1528.6	1750.9	1895.2	1999.2	1926.9
57.5°	422.8	584.8	746.6	908.4	1138.9	1369.6	1600.1	1830.6	1976.7	2079.6	2009.6
60°	416.8	585.8	754.8	923.8	1150.3	1376.7	1603.3	1829.7	1995.6	2119.0	2083.2
62.5°	398.5	562.8	727.0	891.3	1106.3	1321.3	1536.3	1751.3	1945.5	2103.7	2102.1
65°	363.3	514.5	665.6	816.8	1015.8	1214.9	1413.9	1612.9	1841.8	2034.0	2046.5
67.5°	320.4	445.9	571.5	697.0	884.4	1071.7	1259.1	1446.5	1691.3	1903.4	1914.1
70°	278.9	371.0	462.9	554.8	719.3	883.9	1048.3	1212.8	1460.0	1674.6	1684.5
72.5°	230.3	290.4	350.5	410.6	543.9	677.2	810.4	943.6	1160.7	1325.7	1381.4
75°	176.4	212.1	247.8	283.5	391.3	499.2	606.9	714.7	859.0	980.8	1043.6
77.5°	126.1	144.7	163.2	181.7	273.4	365.0	456.6	548.2	624.1	693.1	735.5
80°	82.8	91.4	100.2	108.8	185.0	261.3	337.4	413.6	459.8	496.8	518.2
82.5°	50.2	54.5	58.7	63.0	124.8	186.5	248.2	309.9	336.4	354.0	373.1
85°	27.1	29.4	31.7	34.1	73.7	113.3	152.9	192.5	195.1	197.2	225.4
87.5°	7.9	8.6	9.3	9.9	16.3	22.9	29.3	35.7	22.2	13.8	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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: P596488

CATALOG NUMBER: MSA-SA1A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	327.1	325.5	323.9	322.2	320.6	313.8	307.1	300.3	293.5	300.1	306.5
5°	407.4	412.3	417.2	422.1	427.0	427.4	427.7	428.0	428.3	429.5	430.7
7.5°	465.2	474.0	482.6	491.4	500.2	507.0	513.8	520.7	527.5	521.3	515.1
10°	470.2	488.7	507.2	525.7	544.3	547.6	550.8	554.2	557.5	561.9	566.3
12.5°	475.1	497.7	520.2	542.8	565.4	575.3	585.0	594.9	604.7	609.5	614.2
15°	527.4	540.7	553.9	567.3	580.5	587.3	593.9	600.7	607.5	611.6	615.6
17.5°	594.6	599.5	604.3	609.3	614.2	618.8	623.3	627.9	632.5	633.2	634.0
20°	655.8	656.8	657.7	658.7	659.5	649.9	640.4	630.7	621.1	622.8	624.4
22.5°	747.7	742.3	737.0	731.5	726.2	708.1	690.0	671.9	653.8	646.1	638.4
25°	886.1	872.2	858.4	844.6	830.7	801.8	773.1	744.1	715.4	698.4	681.6
27.5°	930.7	900.5	870.5	840.4	810.2	788.4	766.6	744.8	723.0	696.2	669.4
30°	1020.9	973.3	925.9	878.3	830.7	809.6	788.5	767.2	746.1	718.7	691.4
32.5°	1100.8	1051.4	1002.0	952.4	903.0	863.0	823.0	782.9	742.9	724.4	705.9
35°	1193.3	1131.2	1069.0	1006.9	944.8	910.4	876.2	841.9	807.6	779.6	751.7
37.5°	1328.1	1262.0	1195.9	1129.7	1063.6	1017.1	970.8	924.4	878.1	862.6	847.3
40°	1456.5	1378.5	1300.5	1222.5	1144.5	1108.9	1073.4	1037.7	1002.1	976.0	949.9
42.5°	1564.1	1486.9	1409.9	1332.6	1255.6	1229.6	1203.8	1177.9	1152.0	1130.5	1109.1
45°	1601.1	1538.1	1475.2	1412.2	1349.2	1340.1	1331.0	1321.9	1312.9	1296.9	1281.0
47.5°	1660.5	1596.3	1532.1	1467.9	1403.7	1407.0	1410.3	1413.8	1417.1	1418.0	1418.7
50°	1695.5	1634.4	1573.5	1512.5	1451.6	1467.8	1483.8	1500.0	1516.2	1552.9	1589.5
52.5°	1746.5	1686.6	1626.8	1566.9	1506.9	1534.4	1561.7	1589.1	1616.4	1667.8	1719.2
55°	1810.5	1753.1	1695.9	1638.6	1581.4	1608.1	1634.7	1661.4	1687.9	1745.1	1802.3
57.5°	1895.3	1833.9	1772.7	1711.3	1650.0	1674.6	1699.0	1723.6	1748.1	1802.4	1856.8
60°	1991.9	1925.2	1858.5	1791.7	1725.0	1731.8	1738.4	1745.2	1751.9	1810.8	1869.6
62.5°	2039.4	1977.6	1916.0	1854.2	1792.4	1773.5	1754.6	1735.6	1716.7	1769.4	1822.1
65°	1998.2	1955.7	1913.4	1870.9	1828.4	1795.0	1761.8	1728.4	1695.1	1728.1	1760.9
67.5°	1867.3	1843.2	1819.2	1795.1	1771.1	1715.1	1659.1	1603.1	1547.1	1549.3	1551.4
70°	1655.1	1648.6	1642.3	1635.9	1629.5	1545.4	1461.4	1377.2	1293.1	1280.3	1267.4
72.5°	1386.1	1390.3	1394.4	1398.6	1402.8	1312.4	1222.0	1131.5	1041.1	1019.7	998.4
75°	1073.6	1096.8	1120.0	1143.4	1166.6	1080.1	993.7	907.1	820.6	794.3	768.0
77.5°	758.6	802.0	845.2	888.6	931.9	853.7	775.6	697.5	619.3	602.2	585.2
80°	529.0	550.2	571.5	592.7	613.9	574.7	535.4	496.1	456.8	461.5	466.1
82.5°	385.3	390.2	395.0	400.0	404.9	388.9	372.8	356.6	340.6	352.8	365.0
85°	246.8	264.5	282.0	299.7	317.2	299.4	281.6	263.7	245.9	254.1	262.3
87.5°	55.2	87.3	119.5	151.7	183.8	166.5	149.3	132.1	114.8	107.0	99.3
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



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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-SA1A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	313.0	319.6	317.6	315.7	313.8	311.8	315.4	319.0	322.7	326.2	325.0
5°	432.1	433.3	421.6	410.0	398.3	386.5	393.8	401.1	408.4	415.7	413.1
7.5°	508.9	502.8	496.0	489.2	482.3	475.5	474.0	472.5	470.9	469.4	467.4
10°	570.7	575.0	570.6	566.3	561.8	557.4	547.0	536.6	526.1	515.7	511.4
12.5°	619.0	623.8	624.9	625.9	627.0	628.2	616.5	605.1	593.4	581.8	571.3
15°	619.6	623.7	627.3	630.7	634.3	637.8	630.6	623.6	616.4	609.3	605.9
17.5°	634.8	635.6	632.6	629.8	626.8	624.0	621.1	618.4	615.6	612.8	607.5
20°	626.2	627.9	627.5	627.2	626.7	626.3	626.5	626.7	626.9	627.0	624.1
22.5°	630.6	622.8	624.4	625.9	627.5	629.0	633.5	637.9	642.5	646.9	658.8
25°	664.7	647.8	645.2	642.7	640.1	637.7	649.3	660.8	672.4	684.0	703.3
27.5°	642.5	615.7	609.7	603.8	597.9	592.0	609.6	627.2	644.8	662.5	682.1
30°	664.0	636.7	623.6	610.5	597.3	584.2	601.1	617.9	634.8	651.6	673.4
32.5°	687.3	668.8	660.0	651.4	642.6	634.0	635.3	636.7	638.0	639.4	670.0
35°	723.6	695.6	687.0	678.3	669.7	661.0	675.5	689.8	704.2	718.6	744.5
37.5°	831.9	816.4	800.8	785.3	769.6	754.0	762.6	771.1	779.6	788.1	812.6
40°	923.9	897.8	895.2	892.8	890.2	887.6	888.3	888.9	889.7	890.4	911.3
42.5°	1087.4	1065.9	1052.7	1039.5	1026.3	1013.1	1012.2	1011.3	1010.4	1009.5	1025.2
45°	1264.9	1249.0	1239.1	1229.2	1219.2	1209.4	1193.7	1178.0	1162.2	1146.5	1160.2
47.5°	1419.6	1420.5	1438.4	1456.2	1474.1	1492.0	1465.2	1438.4	1411.6	1384.8	1367.1
50°	1626.2	1662.7	1667.0	1671.2	1675.6	1679.9	1634.4	1589.1	1543.6	1498.2	1479.6
52.5°	1770.7	1822.1	1815.4	1808.9	1802.2	1795.5	1769.2	1743.0	1716.7	1690.4	1650.0
55°	1859.6	1916.8	1911.8	1906.8	1901.7	1896.7	1877.5	1858.4	1839.2	1820.1	1775.7
57.5°	1911.1	1965.5	1967.0	1968.5	1969.9	1971.4	1966.4	1961.3	1956.2	1951.2	1893.5
60°	1928.6	1987.5	1988.1	1988.6	1989.2	1989.7	1981.7	1973.6	1965.5	1957.5	1919.8
62.5°	1874.8	1927.4	1929.8	1932.0	1934.4	1936.7	1931.1	1925.6	1920.0	1914.5	1886.6
65°	1793.9	1826.9	1827.5	1828.0	1828.6	1829.2	1815.2	1801.2	1787.1	1773.0	1766.4
67.5°	1553.6	1555.9	1569.0	1582.1	1595.1	1608.2	1609.4	1610.5	1611.7	1612.8	1603.2
70°	1254.6	1241.7	1255.9	1270.1	1284.3	1298.5	1304.6	1310.7	1316.8	1322.9	1327.3
72.5°	976.9	955.5	966.0	976.5	987.1	997.6	988.6	979.6	970.6	961.6	990.1
75°	741.7	715.4	714.0	712.8	711.4	710.2	705.6	701.0	696.3	691.8	718.5
77.5°	568.0	550.9	551.8	552.6	553.4	554.2	549.5	544.9	540.2	535.5	545.8
80°	470.8	475.3	475.5	475.6	475.7	475.8	471.4	467.1	462.6	458.2	450.8
82.5°	377.4	389.6	389.5	389.5	389.4	389.2	389.0	388.7	388.4	388.1	376.0
85°	270.4	278.6	270.2	261.8	253.4	245.0	251.1	257.3	263.6	269.8	264.7
87.5°	91.5	83.9	73.9	64.0	54.0	44.0	54.7	65.5	76.3	87.1	93.3
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



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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



REPORT NUMBER: P596488

CATALOG NUMBER: MSA-SA1A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	323.9	322.7	321.5	313.8	305.9	298.1	290.2	304.5	319.0	333.3	347.6
5°	410.6	408.0	405.5	404.9	404.3	403.6	403.0	410.2	417.5	424.7	432.0
7.5°	465.5	463.5	461.5	456.3	451.3	446.1	440.9	445.3	449.6	454.1	458.4
10°	507.2	502.9	498.6	487.3	476.2	465.0	453.7	450.4	447.1	443.7	440.4
12.5°	560.8	550.2	539.7	527.0	514.1	501.4	488.6	486.8	485.1	483.5	481.8
15°	602.7	599.4	596.0	585.9	575.8	565.6	555.5	541.9	528.2	514.6	501.0
17.5°	602.3	597.0	591.8	605.4	618.9	632.5	645.9	631.5	616.9	602.5	588.0
20°	621.1	618.0	615.1	640.1	665.1	690.2	715.1	707.2	699.2	691.3	683.2
22.5°	670.5	682.4	694.1	715.6	737.0	758.5	779.8	788.9	797.9	806.9	815.9
25°	722.4	741.7	760.9	792.9	824.8	856.8	888.8	895.2	901.6	908.1	914.5
27.5°	701.7	721.3	740.9	765.1	789.2	813.4	837.5	865.7	894.0	922.2	950.3
30°	695.0	716.7	738.3	771.6	804.7	837.9	871.1	909.9	948.7	987.4	1026.2
32.5°	700.5	731.2	761.8	806.8	851.6	896.6	941.5	982.3	1023.2	1064.0	1104.7
35°	770.3	796.3	822.1	872.4	922.6	972.9	1023.2	1071.0	1118.8	1166.5	1214.3
37.5°	836.9	861.4	885.8	937.2	988.5	1039.9	1091.3	1166.7	1242.3	1317.8	1393.3
40°	932.0	952.9	973.7	1017.6	1061.6	1105.6	1149.6	1240.6	1331.7	1422.7	1513.7
42.5°	1040.7	1056.4	1072.0	1117.6	1163.2	1208.7	1254.3	1353.4	1452.6	1551.7	1650.7
45°	1173.8	1187.5	1201.2	1232.6	1264.0	1295.5	1326.8	1429.0	1531.2	1633.3	1735.5
47.5°	1349.4	1331.8	1314.1	1329.6	1345.0	1360.4	1375.9	1476.9	1578.0	1678.9	1779.9
50°	1461.1	1442.6	1424.1	1425.4	1426.7	1428.0	1429.4	1523.6	1617.9	1712.0	1806.3
52.5°	1609.6	1569.1	1528.7	1528.3	1527.9	1527.5	1527.1	1609.2	1691.5	1773.6	1855.8
55°	1731.4	1687.1	1642.7	1634.1	1625.4	1616.6	1608.0	1689.3	1770.4	1851.7	1932.9
57.5°	1835.8	1778.0	1720.3	1706.7	1693.1	1679.5	1665.9	1753.5	1841.2	1928.8	2016.4
60°	1882.2	1844.6	1807.0	1790.3	1773.6	1757.0	1740.3	1814.9	1889.5	1964.0	2038.6
62.5°	1858.8	1830.8	1803.0	1806.9	1810.7	1814.5	1818.4	1861.0	1903.7	1946.3	1989.0
65°	1759.8	1753.1	1746.6	1777.5	1808.4	1839.2	1870.1	1870.7	1871.4	1872.0	1872.6
67.5°	1593.5	1583.9	1574.3	1638.5	1702.6	1766.9	1831.1	1800.6	1770.1	1739.7	1709.2
70°	1331.7	1336.1	1340.4	1427.9	1515.2	1602.7	1690.1	1645.9	1601.6	1557.3	1513.0
72.5°	1018.6	1047.3	1075.8	1166.5	1257.2	1347.8	1438.5	1388.0	1337.3	1286.8	1236.2
75°	745.1	771.8	798.5	888.1	977.6	1067.3	1156.9	1096.8	1036.8	976.9	916.8
77.5°	556.0	566.4	576.6	651.1	725.5	800.0	874.3	814.1	753.8	693.6	633.3
80°	443.5	436.1	428.8	470.0	511.3	552.6	593.8	551.1	508.2	465.5	422.7
82.5°	364.0	351.9	340.0	355.3	370.6	386.0	401.3	367.1	332.9	298.7	264.5
85°	259.7	254.6	249.5	254.0	258.3	262.7	267.2	233.8	200.5	167.3	133.9
87.5°	99.3	105.5	111.7	118.7	125.6	132.7	139.6	109.3	79.1	48.9	18.7
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°	268.4	268.4
2.5°	353.5	359.5
5°	431.9	431.7
7.5°	456.4	454.3
10°	434.9	429.5
12.5°	465.7	449.5
15°	485.0	468.8
17.5°	563.7	539.2
20°	654.2	625.1
22.5°	771.6	727.2
25°	861.5	808.4
27.5°	918.8	887.2
30°	990.0	953.8
32.5°	1078.0	1051.2
35°	1189.8	1165.3
37.5°	1385.6	1377.9
40°	1504.5	1495.1
42.5°	1651.1	1651.4
45°	1741.0	1746.6
47.5°	1794.0	1808.0
50°	1836.3	1866.2
52.5°	1896.7	1937.6
55°	1987.2	2041.5
57.5°	2062.6	2108.8
60°	2062.6	2086.4
62.5°	1988.3	1987.6
65°	1861.1	1849.5
67.5°	1694.6	1680.0
70°	1490.3	1467.4
72.5°	1207.9	1179.5
75°	877.9	838.9
77.5°	614.8	596.2
80°	431.7	440.8
82.5°	277.3	290.2
85°	131.9	130.0
87.5°	15.6	12.5
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



REPORT NUMBER: P596488
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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)