

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: P367118

Luminaire Tested: **MSA-SA1D-830-U-SLR**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA1D-830-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: 4668 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

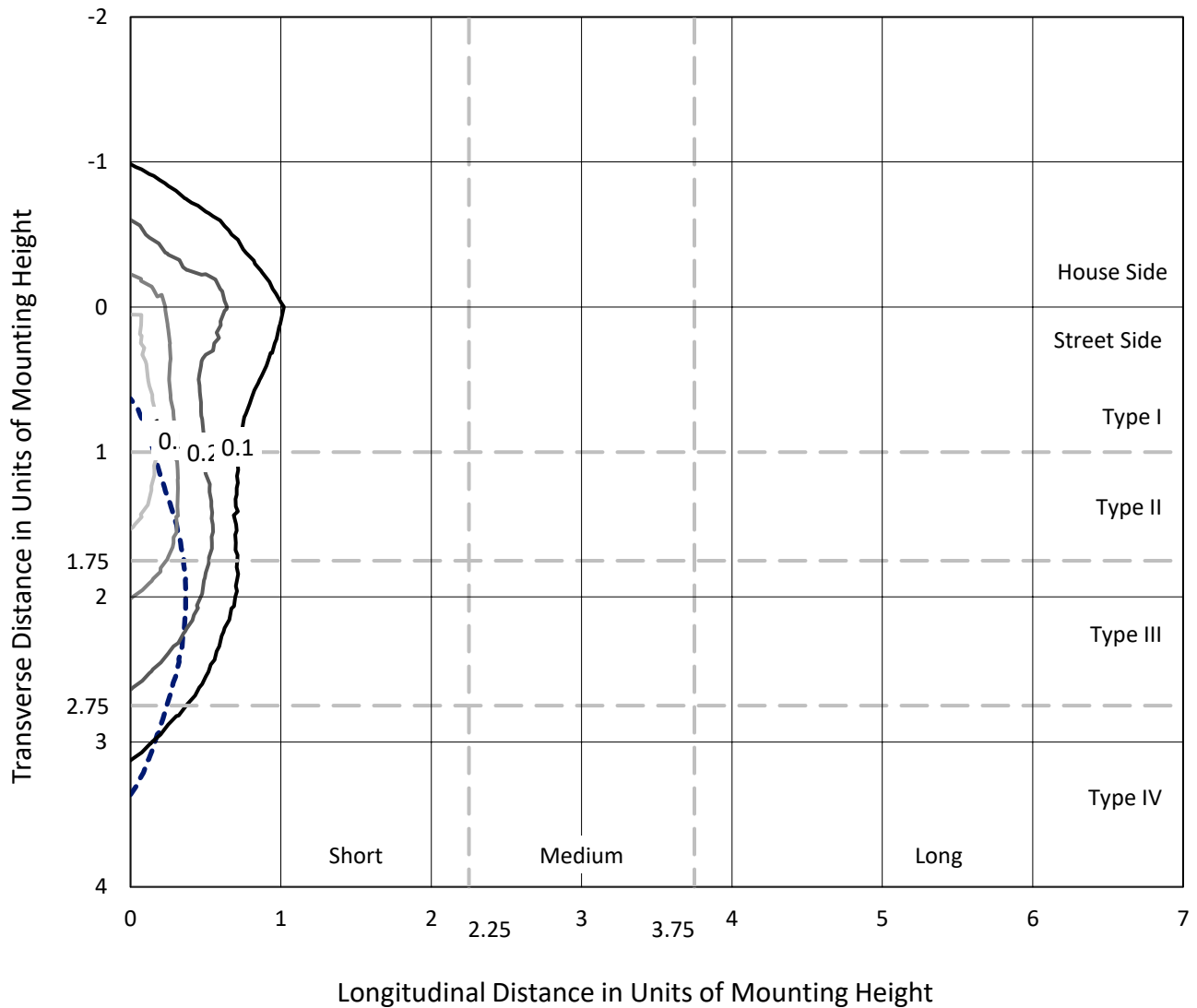
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

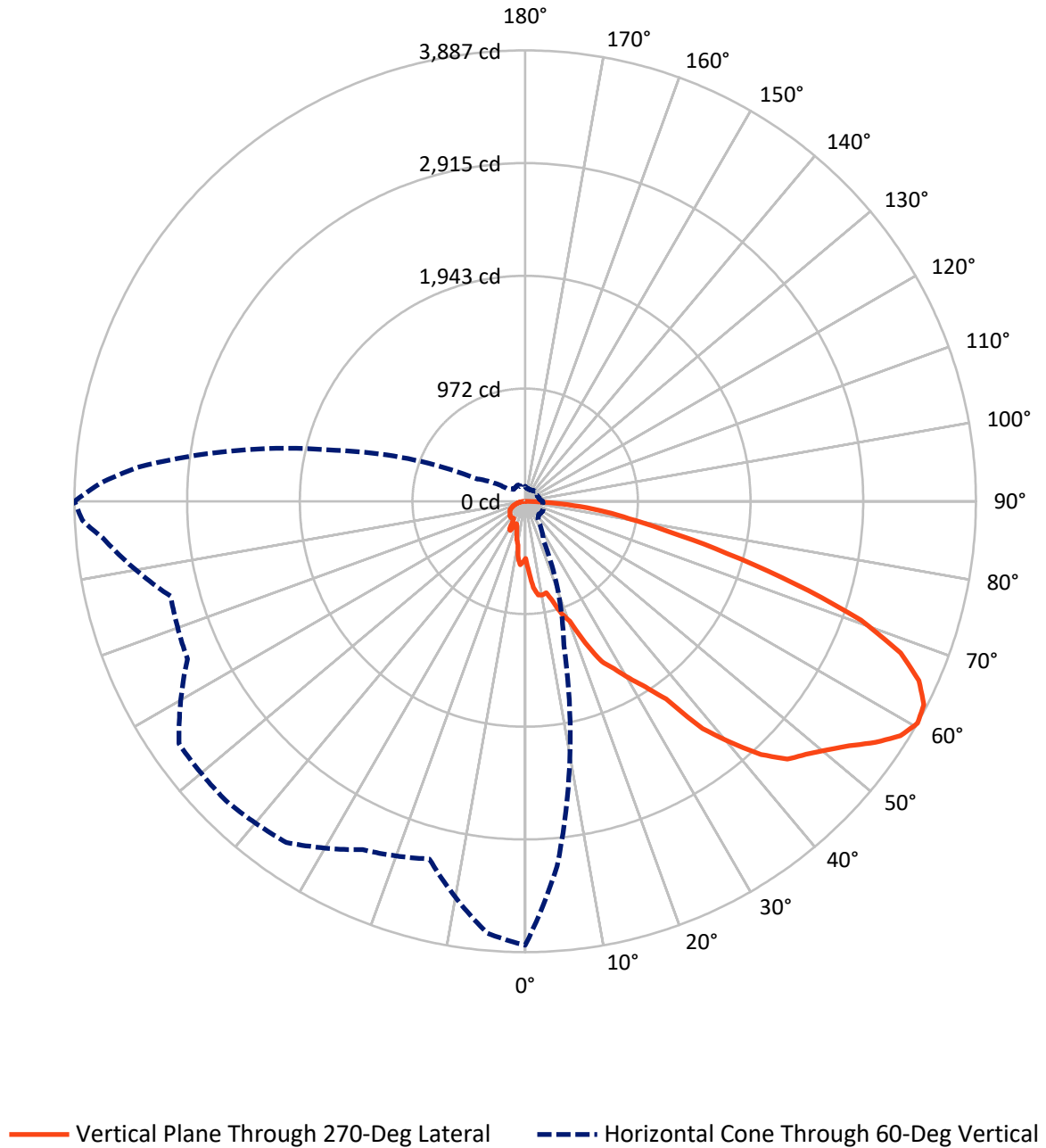
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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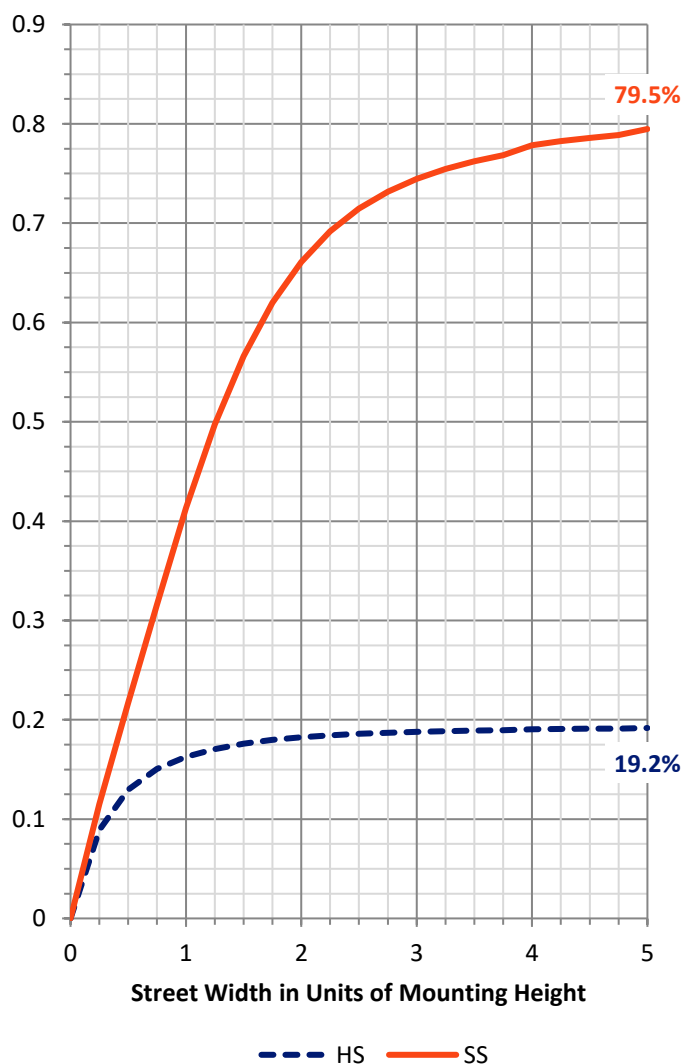
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	904.1	0.0	904.1
	% Fixture	19.4	0.0	19.4
Street Side	Lumens	3763.9	0.0	3763.9
	% Fixture	80.6	0.0	80.6
Total	Lumens	4668.0	0.0	4668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	1.2
10°-20°	164.0	3.5
20°-30°	289.6	6.2
30°-40°	451.0	9.7
40°-50°	742.4	15.9
50°-60°	1059.7	22.7
60°-70°	1123.7	24.1
70°-80°	620.6	13.3
80°-90°	160.6	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°	4668.0	100.0
0°-180°	4668.0	100.0

Coefficient of Utilization

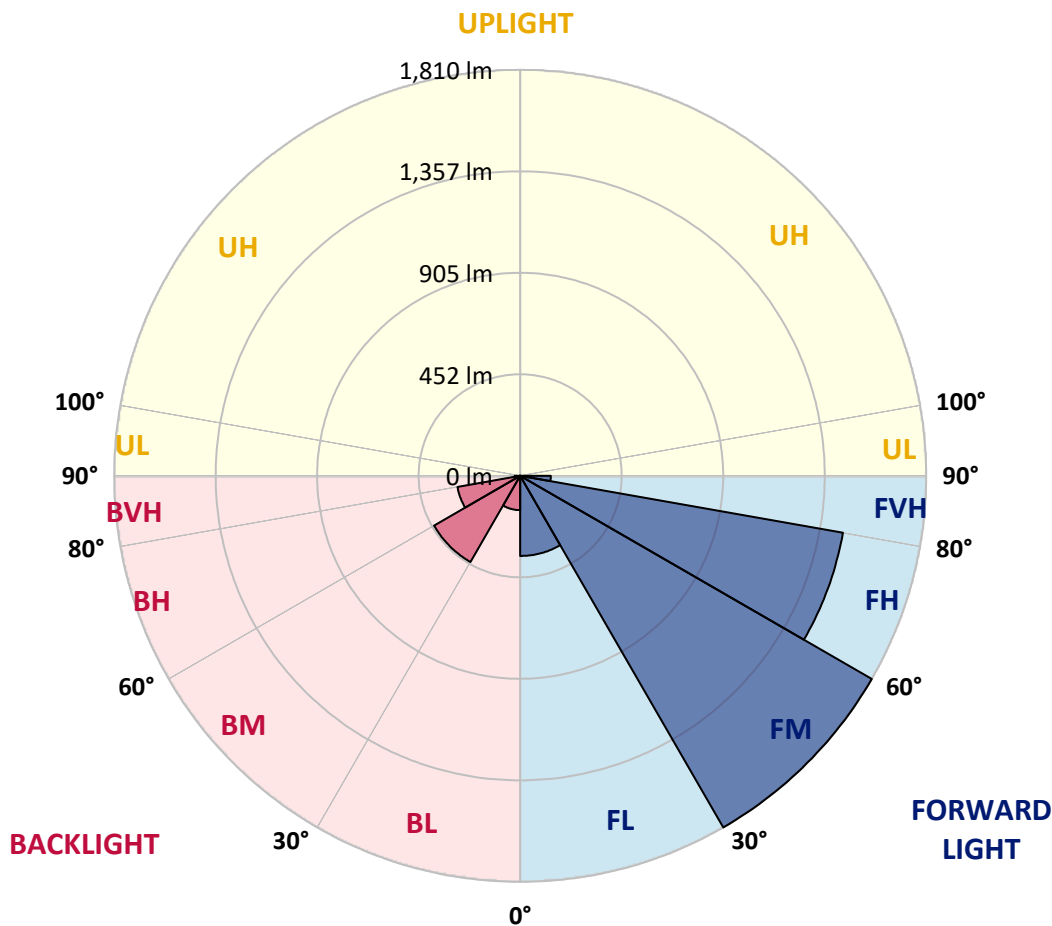


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.2	7.7			
FM (30°-60°)	1809.6	38.8			
FH (60°-80°)	1460.6	31.3			G1/1800
FVH (80°-90°)	136.5	2.9			G2/225
BL (0°-30°)	152.8	3.3	B1/500		
BM (30°-60°)	443.5	9.5	B1/1000		
BH (60°-80°)	283.7	6.1	B1/500		G1/500
BVH (80°-90°)	24.1	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	659.3	663.4	667.3	659.6	651.9	643.9	636.2	624.7	612.9	601.3	589.6
5°	791.9	776.9	761.8	755.6	749.7	743.6	737.5	731.8	726.2	720.3	714.6
7.5°	833.4	812.1	790.5	781.5	772.4	763.1	754.0	733.7	713.3	692.6	672.3
10°	787.8	765.6	743.2	734.3	725.3	716.4	707.4	682.5	657.8	632.8	607.9
12.5°	824.5	801.9	779.0	750.9	722.8	694.5	666.4	652.5	638.7	624.7	610.9
15°	859.9	829.3	798.5	770.4	742.3	713.9	685.8	658.2	630.6	602.9	575.3
17.5°	989.0	938.0	887.0	836.3	785.3	734.6	683.6	651.6	619.5	587.5	555.3
20°	1146.5	1075.6	1004.4	927.4	850.1	773.1	695.8	655.5	615.4	575.1	534.7
22.5°	1333.9	1244.4	1154.9	1057.7	960.5	863.0	765.8	707.4	648.9	590.2	531.8
25°	1482.7	1396.6	1310.5	1187.3	1064.0	940.7	817.5	751.1	684.7	618.1	551.7
27.5°	1627.3	1490.2	1352.9	1211.7	1070.8	929.6	788.5	727.1	665.7	604.3	542.9
30°	1749.4	1640.6	1531.9	1347.7	1163.5	979.0	794.8	719.4	643.9	568.5	493.0
32.5°	1928.2	1773.0	1617.5	1425.4	1233.3	1041.1	849.0	752.5	655.9	559.4	462.9
35°	2137.3	1976.0	1814.7	1577.0	1339.5	1101.8	864.2	762.0	659.6	557.4	455.0
37.5°	2527.2	2242.9	1958.3	1698.9	1439.4	1179.8	920.4	801.6	682.9	564.0	445.2
40°	2742.3	2479.4	2216.6	1893.3	1570.0	1246.4	923.1	801.6	680.0	558.5	436.8
42.5°	3028.9	2696.5	2363.9	2014.3	1664.9	1315.3	965.7	831.1	696.5	561.7	427.1
45°	3203.6	2833.1	2462.4	2088.8	1715.2	1341.6	967.9	831.3	694.7	558.1	421.4
47.5°	3316.2	2960.5	2604.5	2202.3	1800.2	1397.8	995.6	850.6	705.3	560.3	415.1
50°	3422.9	3070.6	2718.0	2300.4	1883.1	1465.5	1047.9	889.5	731.2	572.6	414.2
52.5°	3553.9	3229.4	2904.7	2456.8	2008.6	1560.7	1112.5	940.1	767.6	595.2	422.8
55°	3744.4	3424.7	3104.8	2624.0	2143.0	1662.2	1181.1	989.7	798.5	607.0	415.5
57.5°	3867.9	3543.7	3219.4	2729.1	2238.8	1748.3	1258.0	1045.9	833.8	621.5	409.4
60°	3826.9	3492.5	3157.8	2690.4	2222.9	1755.5	1288.1	1059.0	830.2	601.1	372.0
62.5°	3645.6	3290.1	2934.6	2515.9	2097.4	1678.7	1260.0	1027.1	794.4	561.5	328.5
65°	3392.3	3024.8	2657.1	2279.4	1901.7	1524.0	1146.3	934.9	723.2	511.8	300.2
67.5°	3081.5	2698.3	2314.9	1980.5	1646.1	1311.4	977.0	800.3	623.8	447.0	270.3
70°	2691.5	2314.9	1938.4	1649.0	1359.7	1070.4	781.0	648.0	515.2	382.2	249.2
72.5°	2163.4	1838.4	1513.5	1285.8	1058.1	830.4	602.7	510.3	418.0	325.6	233.1
75°	1538.7	1347.7	1156.7	979.5	802.3	624.9	447.7	387.9	328.1	268.3	208.5
77.5°	1093.5	980.9	868.2	729.4	590.5	451.6	312.7	277.6	242.7	207.5	172.4
80°	808.4	714.4	620.4	515.7	411.0	306.3	201.7	184.4	167.4	150.2	133.0
82.5°	532.2	489.9	447.3	364.3	281.4	198.5	115.6	109.2	102.9	96.5	90.2
85°	238.4	251.7	264.9	214.1	163.1	112.4	61.4	58.5	55.5	52.6	49.6
87.5°	22.9	33.8	44.6	38.3	31.7	25.4	18.8	18.6	18.6	18.4	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	592.7	595.9	599.1	602.2	598.8	595.4	591.8	588.4	584.1	579.8	575.3
5°	705.1	695.4	685.8	676.1	661.6	647.1	632.4	617.9	616.1	614.0	612.2
7.5°	654.4	636.7	618.8	600.9	578.2	555.8	533.1	510.5	503.7	496.9	490.1
10°	595.9	583.7	571.7	559.4	545.4	531.3	517.0	503.0	484.4	465.6	447.0
12.5°	590.9	571.0	550.8	530.9	522.3	513.7	505.0	496.4	480.1	463.8	447.3
15°	559.2	542.9	526.8	510.5	498.0	485.6	473.1	460.6	447.5	434.1	421.0
17.5°	536.8	518.2	499.6	481.0	466.7	452.5	438.0	423.7	407.8	391.8	375.9
20°	513.4	492.4	471.1	449.8	431.6	413.7	395.6	377.5	360.0	342.8	325.4
22.5°	503.9	476.0	448.2	420.3	401.3	382.0	363.0	343.7	327.6	311.5	295.5
25°	518.4	485.3	452.0	418.7	393.1	367.3	341.7	315.8	302.5	289.1	275.5
27.5°	501.4	459.7	418.3	376.6	349.2	321.5	294.1	266.5	264.4	262.4	260.1
30°	449.3	405.6	361.8	318.1	293.0	267.6	242.4	217.1	212.3	207.3	202.6
32.5°	418.3	373.6	329.0	284.4	261.9	239.3	216.8	194.2	188.7	183.3	177.9
35°	406.5	358.0	309.5	261.0	241.8	222.5	203.2	184.0	180.1	176.5	172.7
37.5°	397.0	348.9	300.7	252.4	233.8	215.2	196.4	177.9	174.9	172.0	169.0
40°	387.9	339.2	290.2	241.3	224.8	208.5	191.9	175.4	173.6	171.7	169.7
42.5°	379.7	332.4	284.8	237.5	222.7	208.2	193.5	178.8	177.0	175.1	173.3
45°	375.2	329.0	282.8	236.5	225.9	215.2	204.4	193.7	189.4	185.1	180.6
47.5°	371.8	328.5	285.3	242.0	230.9	219.8	208.7	197.6	193.7	189.9	185.8
50°	372.5	331.0	289.3	247.6	234.3	220.7	207.3	193.7	193.3	192.8	192.4
52.5°	378.6	334.7	290.5	246.3	231.8	217.3	202.6	188.1	191.0	193.7	196.7
55°	369.8	324.0	278.0	232.2	218.4	204.8	191.0	177.2	181.0	184.7	188.5
57.5°	359.8	310.2	260.6	210.9	200.5	190.1	179.4	169.0	173.1	177.4	181.5
60°	326.7	281.4	236.1	190.8	183.8	176.7	169.7	162.7	164.5	166.3	168.1
62.5°	290.5	252.2	214.1	175.8	170.4	164.7	159.3	153.6	153.6	153.8	153.8
65°	267.4	234.5	201.7	168.8	162.7	156.6	150.2	144.1	143.2	142.3	141.4
67.5°	244.3	218.4	192.4	166.3	157.5	148.9	140.0	131.2	130.1	129.1	128.0
70°	226.1	203.0	179.9	156.8	146.8	137.1	127.1	117.1	116.2	115.6	114.6
72.5°	211.4	189.9	168.1	146.4	135.9	125.3	114.9	104.2	103.5	102.9	102.0
75°	189.2	170.2	150.9	131.6	121.4	111.5	101.3	91.1	90.2	89.5	88.6
77.5°	156.6	140.5	124.6	108.5	100.6	92.9	85.0	77.0	76.6	76.1	75.5
80°	120.5	108.1	95.4	82.9	77.7	72.3	67.1	61.6	61.4	61.2	60.7
82.5°	82.7	75.2	67.7	60.3	56.4	52.3	48.5	44.4	44.6	44.9	45.1
85°	47.1	44.4	41.9	39.2	36.0	33.1	29.9	26.7	27.4	28.1	28.5
87.5°	17.2	16.3	15.4	14.5	12.9	11.6	10.0	8.4	8.8	9.5	10.0
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):

	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: P367118
 CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	571.0	564.2	557.4	550.6	543.8	529.7	515.9	501.9	487.8	496.4	505.3
5°	610.2	598.6	586.8	575.3	563.5	556.9	550.4	543.8	537.2	540.6	544.2
7.5°	483.3	476.5	469.5	462.7	455.6	452.7	450.0	447.0	444.1	452.5	460.9
10°	428.2	418.7	409.2	399.5	389.9	384.3	378.6	372.9	367.3	369.5	371.8
12.5°	430.9	416.9	402.9	388.8	374.8	366.4	358.0	349.6	341.2	343.3	345.3
15°	407.6	393.1	378.6	364.1	349.6	339.9	329.9	320.2	310.2	306.8	303.2
17.5°	359.8	343.9	328.1	312.2	296.4	289.8	283.2	276.7	270.1	266.5	262.8
20°	307.9	293.2	278.5	263.7	249.0	244.5	239.9	235.2	230.7	228.4	225.9
22.5°	279.4	270.3	261.0	252.0	242.7	237.5	232.5	227.3	222.0	219.6	216.8
25°	262.1	264.0	266.0	267.8	269.6	267.4	264.9	262.6	260.1	261.0	261.7
27.5°	258.1	261.9	266.0	269.9	273.7	275.7	277.8	279.8	281.9	282.5	283.2
30°	197.6	199.6	201.4	203.5	205.3	210.9	216.6	222.0	227.7	236.5	245.6
32.5°	172.4	171.7	171.1	170.2	169.5	170.8	172.2	173.3	174.7	177.9	181.3
35°	168.8	167.2	165.4	163.8	162.0	162.7	163.4	164.0	164.7	167.2	169.7
37.5°	166.1	165.4	164.9	164.3	163.6	165.2	166.5	168.1	169.5	171.5	173.6
40°	167.9	167.7	167.4	167.0	166.8	167.7	168.6	169.5	170.4	173.1	175.8
42.5°	171.5	171.5	171.3	171.3	171.1	172.0	172.7	173.6	174.2	175.8	177.4
45°	176.3	175.8	175.6	175.1	174.7	174.5	174.5	174.2	174.0	174.9	176.1
47.5°	181.9	180.4	178.5	177.0	175.1	174.7	174.0	173.6	172.9	173.3	173.8
50°	191.9	187.6	183.5	179.2	174.9	173.8	172.7	171.5	170.4	170.2	170.2
52.5°	199.4	193.0	186.7	180.4	174.0	172.0	169.9	167.9	165.9	165.4	165.2
55°	192.1	187.4	182.8	178.1	173.3	170.4	167.2	164.3	161.1	160.4	159.7
57.5°	185.6	182.6	179.7	176.7	173.8	170.8	167.7	164.7	161.5	160.0	158.4
60°	169.9	169.9	170.2	170.2	170.2	167.0	163.8	160.6	157.5	155.9	154.5
62.5°	153.8	156.3	158.6	161.1	163.4	159.1	154.5	150.2	145.7	144.6	143.6
65°	140.5	141.2	142.1	142.7	143.4	140.0	136.6	133.2	129.8	129.1	128.2
67.5°	126.9	126.7	126.4	126.0	125.8	123.7	121.4	119.4	117.1	116.2	115.3
70°	113.7	113.5	113.3	112.8	112.6	110.8	109.0	107.2	105.4	104.7	104.0
72.5°	101.3	101.1	100.6	100.4	99.9	98.3	97.0	95.4	93.8	92.9	92.0
75°	87.7	87.2	86.8	86.3	85.9	84.5	83.2	81.6	80.2	79.3	78.4
77.5°	75.0	74.3	73.6	72.7	72.1	70.9	69.6	68.4	67.1	65.9	65.0
80°	60.5	60.0	59.6	58.9	58.5	57.3	56.2	54.8	53.7	52.3	51.2
82.5°	45.3	45.1	44.6	44.4	44.0	42.8	41.7	40.6	39.4	38.1	36.7
85°	29.2	29.0	28.8	28.5	28.3	27.4	26.7	25.8	24.9	23.6	22.4
87.5°	10.4	10.0	9.7	9.3	8.8	8.6	8.2	7.9	7.5	6.8	6.1
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: P367118
 CATALOG NUMBER: MSA-SA1D-830-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: P367118

CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	513.9	522.5	522.7	522.7	526.8	530.6	522.7	514.8	506.6	498.7	490.8
5°	547.6	551.0	550.1	549.0	544.0	539.0	533.8	528.6	523.4	518.2	518.4
7.5°	469.2	477.6	484.4	491.0	484.6	478.3	474.9	471.5	468.1	464.7	464.3
10°	373.9	376.1	378.8	381.3	377.5	373.4	380.2	387.0	393.6	400.4	392.9
12.5°	347.3	349.4	344.6	339.6	338.1	336.5	334.9	333.1	331.5	329.7	328.8
15°	299.8	296.1	292.5	288.7	287.8	286.6	285.5	284.1	283.0	281.6	277.6
17.5°	259.2	255.6	249.5	243.1	240.6	237.9	237.2	236.5	235.6	235.0	231.1
20°	223.6	221.1	219.6	217.7	215.2	212.8	210.3	207.8	205.1	202.6	198.9
22.5°	214.3	211.6	209.6	207.3	206.9	206.4	201.9	197.1	192.6	187.8	185.8
25°	262.6	263.3	250.8	238.1	237.0	235.9	227.7	219.3	211.2	202.8	195.8
27.5°	283.7	284.4	283.9	283.4	279.8	276.0	262.1	248.1	234.3	220.2	210.3
30°	254.4	263.3	266.7	270.1	267.6	264.9	250.4	236.1	221.6	207.1	200.5
32.5°	184.4	187.6	193.3	198.7	201.7	204.4	199.8	195.3	190.8	186.2	185.1
35°	172.0	174.5	175.6	176.7	174.9	173.1	169.7	166.3	162.7	159.3	158.6
37.5°	175.4	177.4	179.7	181.9	177.0	171.7	167.9	164.3	160.4	156.6	153.4
40°	178.5	181.3	182.6	184.0	179.0	174.0	169.3	164.7	160.0	155.2	152.0
42.5°	179.0	180.6	183.1	185.6	178.5	171.3	167.0	162.5	158.2	153.6	150.4
45°	177.0	177.9	180.1	182.4	174.2	165.9	162.0	157.9	154.1	150.0	147.3
47.5°	174.0	174.5	176.3	177.9	169.3	160.4	156.8	153.2	149.3	145.7	143.0
50°	169.9	169.7	171.1	172.2	163.4	154.5	150.9	147.5	143.9	140.3	138.0
52.5°	164.7	164.3	165.6	166.8	157.5	148.2	145.0	142.1	138.9	135.7	133.9
55°	158.8	158.2	159.3	160.4	151.4	142.1	139.3	136.4	133.7	130.7	129.1
57.5°	156.6	155.0	155.7	156.3	146.1	135.9	133.2	130.5	127.8	125.1	123.9
60°	152.9	151.4	152.0	152.5	141.6	130.5	128.0	125.3	122.8	120.1	119.0
62.5°	142.5	141.4	142.3	143.2	133.5	123.5	121.2	119.2	116.9	114.6	113.1
65°	127.6	126.7	128.5	130.3	121.9	113.5	112.2	110.8	109.2	107.9	106.3
67.5°	114.4	113.5	115.3	117.1	111.0	104.9	103.5	102.2	100.8	99.5	98.6
70°	103.3	102.6	104.2	105.8	100.6	95.4	94.0	92.9	91.5	90.2	89.5
72.5°	90.9	90.0	92.0	93.8	89.5	85.0	83.8	82.5	81.3	80.0	79.5
75°	77.5	76.6	78.4	80.0	77.0	73.9	72.7	71.6	70.5	69.3	69.1
77.5°	63.9	62.8	64.6	66.2	64.3	62.3	61.4	60.3	59.4	58.2	58.2
80°	49.8	48.5	49.8	51.0	50.3	49.6	48.9	48.0	47.4	46.4	46.7
82.5°	35.3	34.0	34.7	35.3	35.8	36.3	36.3	36.3	36.3	36.3	36.3
85°	21.1	19.7	19.9	20.2	20.8	21.5	21.8	22.0	22.2	22.4	22.7
87.5°	5.4	4.8	4.3	3.6	4.3	4.8	5.2	5.4	5.9	6.1	6.1
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: P367118
 CATALOG NUMBER: MSA-SA1D-830-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: P367118
 CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	482.8	474.7	466.7	471.7	476.5	481.5	486.2	486.5	486.5	486.7	486.7
5°	518.9	519.1	519.3	514.6	510.0	505.3	500.5	498.0	495.5	492.8	490.3
7.5°	463.6	463.1	462.4	457.9	453.4	448.8	444.3	433.4	422.3	411.5	400.4
10°	385.2	377.7	370.0	368.2	366.6	364.8	363.0	360.0	357.3	354.4	351.4
12.5°	327.9	327.0	326.0	321.3	316.5	311.5	306.8	306.8	306.8	306.8	306.8
15°	273.3	269.2	264.9	262.6	260.1	257.8	255.4	254.2	253.1	252.0	250.8
17.5°	227.0	223.2	219.1	218.6	218.2	217.7	217.3	216.2	215.0	213.9	212.8
20°	195.3	191.7	188.1	189.4	190.8	191.9	193.3	192.1	191.0	189.6	188.5
22.5°	183.5	181.5	179.2	178.1	177.0	175.6	174.5	174.5	174.7	174.7	174.7
25°	189.0	181.9	174.9	171.5	168.1	164.5	161.1	159.7	158.6	157.2	155.9
27.5°	200.3	190.1	180.1	174.2	168.3	162.5	156.6	154.1	151.4	148.9	146.1
30°	193.7	187.2	180.4	173.6	166.8	160.0	153.2	150.0	146.8	143.4	140.3
32.5°	184.0	182.6	181.5	175.1	168.8	162.2	155.9	154.5	153.4	152.0	150.7
35°	157.7	157.0	156.1	154.5	152.9	151.4	149.8	148.0	146.1	144.3	142.5
37.5°	150.4	147.3	144.1	143.4	142.7	142.1	141.4	140.7	140.0	139.1	138.4
40°	148.9	145.7	142.5	141.4	140.3	138.9	137.8	138.0	138.4	138.7	138.9
42.5°	147.0	143.9	140.5	139.6	138.7	137.8	136.9	137.1	137.5	137.8	138.0
45°	144.8	142.1	139.3	137.8	136.4	134.8	133.2	134.6	135.9	137.1	138.4
47.5°	140.3	137.3	134.6	133.7	132.8	131.6	130.7	132.1	133.5	134.6	135.9
50°	135.5	133.2	130.7	130.5	130.3	129.8	129.6	130.5	131.4	132.3	133.2
52.5°	131.9	130.1	128.0	128.0	127.8	127.8	127.6	128.5	129.4	130.1	131.0
55°	127.8	126.2	124.6	124.8	125.3	125.5	125.8	126.7	127.8	128.7	129.6
57.5°	122.6	121.4	120.1	121.0	121.7	122.6	123.3	123.9	124.8	125.5	126.2
60°	117.6	116.5	115.1	116.0	117.1	118.0	119.0	119.6	120.3	121.0	121.7
62.5°	111.5	109.7	108.1	109.4	110.6	111.9	113.1	113.5	114.2	114.6	115.1
65°	104.9	103.3	101.7	102.6	103.5	104.2	105.1	105.8	106.5	107.2	107.9
67.5°	97.4	96.5	95.4	96.1	96.7	97.4	98.1	98.3	98.3	98.6	98.6
70°	88.6	87.9	87.0	87.5	88.1	88.6	89.0	89.0	89.0	88.8	88.8
72.5°	79.3	78.8	78.4	78.6	79.1	79.3	79.5	79.3	79.1	78.8	78.6
75°	68.9	68.7	68.4	68.7	69.1	69.3	69.6	69.3	68.9	68.7	68.2
77.5°	58.5	58.5	58.5	58.5	58.7	58.7	58.7	58.2	57.8	57.3	56.9
80°	46.9	47.1	47.4	47.4	47.4	47.4	47.4	46.9	46.4	45.8	45.3
82.5°	36.3	36.3	36.3	36.3	36.5	36.5	36.5	35.3	34.4	33.3	32.2
85°	22.7	22.9	22.9	23.1	23.3	23.3	23.6	22.0	20.6	19.0	17.4
87.5°	6.1	6.1	6.1	6.1	6.1	5.9	5.9	4.5	2.9	1.6	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: P367118
 CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	488.0	489.4	490.5	491.9	492.1	492.4	492.4	492.6	487.8	483.1	478.1
5°	493.7	496.9	500.3	503.5	502.8	502.1	501.4	500.7	499.4	498.2	496.9
7.5°	397.9	395.6	393.1	390.6	392.7	394.7	396.7	398.8	399.7	400.6	401.3
10°	345.8	340.1	334.4	328.8	325.6	322.2	319.0	315.6	315.2	314.9	314.5
12.5°	300.9	294.8	288.9	282.8	281.0	278.9	277.1	275.1	276.9	278.7	280.3
15°	248.3	246.1	243.6	241.1	243.1	245.2	247.2	249.2	251.0	252.6	254.4
17.5°	211.6	210.7	209.6	208.5	210.3	212.3	214.1	215.9	220.0	224.1	228.2
20°	187.6	186.9	186.0	185.1	184.4	183.5	182.8	181.9	187.8	193.5	199.4
22.5°	173.3	172.0	170.6	169.3	169.5	169.7	169.7	169.9	174.7	179.7	184.4
25°	155.4	155.0	154.5	154.1	155.4	156.8	157.9	159.3	163.6	167.9	172.0
27.5°	146.4	146.6	146.8	147.0	148.9	150.9	152.7	154.5	157.5	160.4	163.4
30°	141.4	142.7	143.9	145.0	145.7	146.4	147.0	147.7	150.7	153.4	156.3
32.5°	148.9	147.0	145.0	143.2	144.1	145.2	146.1	147.0	149.8	152.5	155.2
35°	141.8	140.9	140.3	139.3	140.5	141.6	142.5	143.6	146.1	148.4	150.9
37.5°	138.2	138.0	137.8	137.5	138.2	138.9	139.3	140.0	142.3	144.6	146.6
40°	138.0	136.9	135.9	134.8	135.5	136.2	136.6	137.3	140.0	142.7	145.5
42.5°	136.6	135.3	133.7	132.3	133.0	133.9	134.6	135.3	138.2	140.9	143.9
45°	136.4	134.4	132.1	130.1	131.0	131.9	132.8	133.7	135.9	138.2	140.3
47.5°	133.9	131.9	129.8	127.8	128.2	128.7	128.9	129.4	131.4	133.2	135.3
50°	131.9	130.3	128.9	127.3	126.7	126.2	125.5	124.8	126.4	128.0	129.6
52.5°	129.4	127.8	126.0	124.4	123.5	122.6	121.7	120.8	122.1	123.3	124.6
55°	127.8	125.8	123.9	121.9	120.8	119.6	118.5	117.4	118.3	119.0	119.9
57.5°	124.4	122.6	120.5	118.7	117.4	116.0	114.4	113.1	113.5	114.0	114.4
60°	119.9	117.8	116.0	114.0	112.4	110.8	109.0	107.4	107.6	108.1	108.3
62.5°	113.3	111.5	109.4	107.6	105.8	104.2	102.4	100.6	101.1	101.3	101.7
65°	106.0	104.0	102.2	100.1	98.6	97.0	95.2	93.6	94.0	94.5	94.7
67.5°	97.2	95.6	94.3	92.7	91.3	89.7	88.4	86.8	87.0	87.2	87.5
70°	87.7	86.3	85.2	83.8	82.7	81.6	80.4	79.3	79.3	79.5	79.5
72.5°	77.5	76.4	75.2	74.1	73.0	72.1	70.9	69.8	70.2	70.7	70.9
75°	67.1	66.2	65.0	63.9	63.0	62.1	60.9	60.0	60.5	60.9	61.2
77.5°	56.2	55.5	54.6	53.9	53.0	52.1	51.0	50.1	50.5	51.0	51.2
80°	44.9	44.4	43.7	43.3	42.4	41.5	40.6	39.7	39.9	39.9	40.1
82.5°	32.4	32.6	32.6	32.9	32.2	31.3	30.6	29.7	29.7	29.7	29.5
85°	18.1	19.0	19.7	20.4	19.7	19.0	18.4	17.7	17.4	17.4	17.2
87.5°	0.7	1.1	1.8	2.3	2.0	1.8	1.4	1.1	1.4	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367118
 CATALOG NUMBER: MSA-SA1D-830-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: P367118
 CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	473.3	477.2	481.0	484.9	488.7	494.6	500.5	506.6	512.7	509.3	505.7
5°	495.5	497.8	500.3	502.5	504.8	511.4	517.7	525.7	533.4	532.5	531.3
7.5°	402.2	405.3	408.5	411.5	414.6	424.6	434.6	443.0	451.3	450.2	448.8
10°	314.0	320.6	327.4	334.0	340.5	348.7	356.6	363.7	370.7	382.5	394.0
12.5°	282.1	292.3	302.5	312.7	322.9	328.8	334.4	343.5	352.6	358.9	365.5
15°	256.0	265.5	275.1	284.6	294.1	294.6	295.0	304.5	314.0	319.5	324.7
17.5°	232.2	237.5	242.7	247.6	252.9	251.0	249.2	253.8	258.1	260.3	262.8
20°	205.1	208.7	212.3	215.9	219.6	222.0	224.3	227.0	229.5	227.3	224.8
22.5°	189.2	194.6	200.3	205.7	211.2	212.8	214.1	212.5	210.9	210.3	209.6
25°	176.3	182.8	189.6	196.2	202.8	206.0	209.1	210.5	211.6	209.1	206.6
27.5°	166.3	174.2	181.9	189.9	197.6	203.2	208.9	210.5	211.8	210.0	208.0
30°	159.1	167.7	176.3	184.9	193.5	202.1	210.5	218.0	225.2	224.5	223.9
32.5°	157.9	163.8	169.7	175.6	181.5	186.9	192.1	192.6	192.8	191.0	189.0
35°	153.2	157.0	160.9	164.7	168.6	172.0	175.1	174.7	174.2	172.4	170.6
37.5°	148.9	152.7	156.8	160.6	164.5	170.4	176.1	174.9	173.6	171.7	169.9
40°	148.2	152.5	156.8	160.9	165.2	170.6	176.1	174.9	173.8	171.5	169.3
42.5°	146.6	150.9	155.0	159.3	163.4	169.9	176.3	174.2	172.0	170.2	168.3
45°	142.5	146.4	150.2	154.1	157.9	164.9	172.0	169.5	167.0	166.3	165.4
47.5°	137.1	140.9	144.8	148.6	152.5	159.5	166.3	164.3	162.0	161.8	161.3
50°	131.2	134.8	138.7	142.3	145.9	152.9	159.7	157.9	156.1	156.3	156.3
52.5°	125.8	129.1	132.3	135.7	138.9	145.9	152.7	151.4	149.8	150.2	150.4
55°	120.5	123.3	126.0	128.7	131.4	138.2	145.0	143.0	140.9	141.6	142.3
57.5°	114.9	117.1	119.4	121.4	123.7	130.5	137.1	134.8	132.3	133.5	134.4
60°	108.5	110.6	112.6	114.4	116.5	122.6	128.5	126.4	124.2	125.8	127.1
62.5°	102.0	103.5	105.1	106.7	108.3	114.0	119.6	118.0	116.5	118.3	119.9
65°	95.2	96.3	97.7	98.8	99.9	105.4	110.6	109.4	108.3	109.9	111.5
67.5°	87.7	88.6	89.7	90.6	91.5	96.5	101.5	100.4	99.0	100.4	101.5
70°	79.5	80.4	81.1	82.0	82.7	87.2	91.8	90.2	88.4	89.7	90.9
72.5°	71.4	71.8	72.5	73.0	73.4	76.8	80.2	78.8	77.5	78.8	80.0
75°	61.6	62.1	62.5	63.0	63.4	66.4	69.1	67.5	65.7	67.1	68.4
77.5°	51.7	51.9	52.3	52.6	52.8	54.8	56.6	55.1	53.2	54.8	56.4
80°	40.1	40.3	40.6	40.6	40.8	41.5	42.1	41.0	39.7	41.7	43.7
82.5°	29.5	29.2	29.2	29.0	28.8	28.8	28.5	27.9	27.0	28.8	30.6
85°	17.0	16.8	16.3	16.1	15.6	15.0	14.3	14.0	13.8	15.4	17.0
87.5°	1.8	1.6	1.1	0.9	0.5	0.2	0.0	0.0	0.0	0.9	2.0
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: P367118
 CATALOG NUMBER: MSA-SA1D-830-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: P367118
 CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	502.3	498.7	495.3	491.9	488.5	485.1	491.4	497.8	504.1	510.5	516.1
5°	530.4	529.3	526.3	523.6	520.7	517.7	519.3	521.1	522.7	524.3	527.7
7.5°	447.7	446.4	452.7	458.8	465.2	471.3	472.9	474.2	475.8	477.2	476.3
10°	405.8	417.4	420.3	423.0	426.0	428.7	433.2	437.7	442.1	446.6	449.1
12.5°	371.8	378.2	388.6	399.2	409.7	420.1	426.9	433.7	440.5	447.3	461.3
15°	330.1	335.3	343.3	351.2	359.1	367.1	376.8	386.8	396.5	406.3	421.7
17.5°	265.1	267.4	273.3	279.1	284.8	290.7	303.8	316.8	329.9	342.8	360.5
20°	222.5	220.0	220.0	220.2	220.2	220.2	233.4	246.3	259.4	272.3	295.7
22.5°	208.7	208.0	205.5	202.8	200.3	197.6	204.4	211.4	218.2	225.0	244.0
25°	203.9	201.4	198.3	195.1	191.9	188.7	193.0	197.3	201.7	206.0	220.9
27.5°	206.2	204.1	205.7	207.1	208.7	210.0	211.4	212.8	214.1	215.5	220.7
30°	223.2	222.5	225.0	227.3	229.7	232.0	228.8	225.9	222.7	219.6	221.4
32.5°	187.2	185.1	184.2	183.3	182.4	181.5	181.3	181.0	180.6	180.4	184.4
35°	168.8	167.0	165.6	164.3	162.7	161.3	162.0	162.5	163.1	163.6	168.1
37.5°	168.1	166.3	164.7	163.1	161.3	159.7	160.4	161.3	162.0	162.7	166.1
40°	167.0	164.7	163.8	162.9	162.0	161.1	161.5	162.0	162.2	162.7	165.2
42.5°	166.3	164.5	164.0	163.6	163.1	162.7	163.1	163.6	163.8	164.3	167.2
45°	164.7	163.8	164.3	164.7	165.2	165.6	165.6	165.6	165.6	165.6	168.8
47.5°	161.1	160.6	162.0	163.4	164.7	166.1	168.3	170.6	172.7	174.9	175.6
50°	156.6	156.6	158.8	161.1	163.1	165.4	170.8	176.1	181.5	186.7	183.3
52.5°	150.9	151.1	154.5	157.7	161.1	164.3	169.3	174.2	179.0	184.0	179.0
55°	142.7	143.4	147.7	151.8	156.1	160.2	164.0	167.9	171.7	175.6	170.4
57.5°	135.5	136.4	140.9	145.2	149.8	154.1	156.3	158.8	161.1	163.4	160.0
60°	128.7	130.1	135.9	141.8	147.5	153.4	151.6	149.8	147.7	145.9	145.7
62.5°	121.7	123.3	128.7	134.1	139.3	144.8	142.1	139.3	136.4	133.7	134.8
65°	112.8	114.4	116.9	119.4	121.7	124.2	123.9	123.9	123.7	123.5	125.8
67.5°	102.9	104.0	105.6	106.9	108.5	109.9	110.8	111.9	112.8	113.7	116.5
70°	92.2	93.3	94.9	96.3	97.9	99.2	100.4	101.5	102.4	103.5	106.3
72.5°	81.3	82.5	84.1	85.6	87.0	88.6	89.5	90.4	91.1	92.0	94.3
75°	69.8	71.1	72.7	74.1	75.7	77.0	77.7	78.4	79.1	79.8	81.8
77.5°	58.0	59.6	61.2	62.8	64.3	65.9	66.2	66.4	66.6	66.8	68.7
80°	45.5	47.6	49.2	50.8	52.3	53.9	53.9	53.9	53.9	53.9	54.8
82.5°	32.4	34.2	36.0	37.6	39.4	41.0	41.0	40.8	40.8	40.6	40.6
85°	18.6	20.2	21.3	22.7	23.8	24.9	24.9	24.9	24.7	24.7	24.2
87.5°	2.9	3.9	4.3	5.0	5.4	5.9	5.7	5.7	5.4	5.2	4.5
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: P367118
 CATALOG NUMBER: MSA-SA1D-830-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: P367118
 CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	521.8	527.5	533.1	532.2	531.3	530.4	529.5	532.9	536.1	539.5	542.7
5°	530.9	534.3	537.4	539.9	542.4	544.9	547.4	559.0	570.3	581.9	593.2
7.5°	475.4	474.2	473.3	484.0	494.8	505.5	516.1	530.9	545.6	560.3	575.1
10°	451.6	454.1	456.6	460.9	465.4	469.7	474.0	488.5	503.0	517.5	532.0
12.5°	475.1	489.2	503.0	506.4	510.0	513.4	516.8	519.8	522.7	525.4	528.4
15°	437.1	452.5	467.9	476.7	485.6	494.2	503.0	525.2	547.2	569.4	591.4
17.5°	377.9	395.6	413.1	434.8	456.6	478.3	500.1	520.4	540.8	561.0	581.4
20°	319.0	342.1	365.5	389.3	412.8	436.6	460.2	480.1	500.1	519.8	539.7
22.5°	262.8	281.9	300.7	329.7	358.4	387.4	416.2	453.4	490.3	527.5	564.4
25°	235.6	250.6	265.3	295.2	325.1	354.8	384.7	433.0	481.0	529.3	577.3
27.5°	226.1	231.3	236.5	263.7	290.7	317.9	344.9	397.0	449.1	501.0	553.1
30°	223.2	225.0	226.8	248.1	269.4	290.7	312.0	363.4	415.1	466.5	518.0
32.5°	188.3	192.4	196.2	217.1	237.7	258.5	279.1	331.0	382.7	434.6	486.2
35°	172.7	177.2	181.7	202.1	222.5	242.7	263.1	317.7	372.5	427.1	481.7
37.5°	169.5	172.9	176.3	199.4	222.5	245.6	268.7	324.0	379.3	434.6	489.9
40°	167.9	170.4	172.9	195.3	218.0	240.4	262.8	320.8	378.6	436.6	494.4
42.5°	169.9	172.9	175.6	196.0	216.2	236.5	256.7	316.8	376.6	436.6	496.4
45°	171.7	174.9	177.9	196.9	215.9	235.0	254.0	318.1	382.0	446.1	510.0
47.5°	176.1	176.7	177.2	193.7	210.0	226.6	242.9	308.1	373.4	438.4	503.7
50°	179.7	176.3	172.7	189.9	206.9	224.1	241.1	302.9	364.8	426.4	488.3
52.5°	174.0	168.8	163.8	182.4	201.0	219.3	237.9	299.8	361.8	423.7	485.6
55°	165.4	160.2	155.0	173.8	192.6	211.4	230.2	291.8	353.7	415.3	476.9
57.5°	156.8	153.4	150.0	165.4	181.0	196.4	211.8	278.7	345.3	412.1	478.8
60°	145.5	145.0	144.8	156.8	169.0	181.0	193.0	258.5	323.8	389.3	454.5
62.5°	135.7	136.9	137.8	147.5	157.2	166.8	176.5	239.7	303.2	366.4	429.6
65°	128.2	130.5	132.8	143.9	155.0	165.9	177.0	230.0	283.0	336.0	389.0
67.5°	119.2	121.9	124.6	139.1	153.6	168.1	182.6	226.4	270.1	313.8	357.5
70°	108.8	111.5	114.0	132.5	150.9	169.5	187.8	226.6	265.5	304.3	343.0
72.5°	96.5	98.8	101.1	121.0	140.9	160.9	180.8	213.7	246.5	279.1	312.0
75°	84.1	86.1	88.1	105.4	122.6	139.8	157.0	182.4	207.5	232.9	258.1
77.5°	70.2	72.1	73.6	85.2	96.7	108.3	119.9	139.3	158.6	178.1	197.3
80°	55.7	56.6	57.6	64.3	70.9	77.7	84.3	97.2	110.1	122.8	135.7
82.5°	40.8	40.8	40.8	45.1	49.6	53.9	58.2	64.8	71.1	77.7	84.1
85°	23.8	23.1	22.7	25.6	28.5	31.5	34.4	37.2	39.9	42.6	45.3
87.5°	3.9	2.9	2.3	4.1	5.9	7.7	9.5	10.4	11.6	12.5	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367118
 CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367118

CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	534.9	527.5	519.8	512.1	523.4	534.7	546.1	557.4	587.5	605.4	606.5
5°	602.7	612.2	621.7	631.2	640.8	650.3	659.6	669.1	718.0	748.2	753.8
7.5°	590.7	606.5	622.2	637.8	664.8	691.7	718.7	745.7	787.1	817.0	836.7
10°	551.5	571.0	590.5	609.9	641.9	674.1	706.0	738.0	781.9	821.3	840.1
12.5°	559.4	590.5	621.3	652.3	680.0	707.8	735.5	763.1	793.5	808.4	842.6
15°	612.9	634.4	655.9	677.5	719.2	760.6	802.3	843.8	861.0	895.2	926.0
17.5°	621.0	660.5	700.1	739.5	790.5	841.5	892.5	943.5	975.4	1019.6	1056.8
20°	595.7	651.4	707.4	763.1	828.8	894.8	960.5	1026.2	1066.7	1103.9	1161.4
22.5°	626.0	687.7	749.1	810.7	897.9	984.9	1072.2	1159.2	1243.9	1326.8	1365.8
25°	659.6	742.0	824.3	906.5	1015.5	1124.3	1233.3	1342.0	1451.0	1528.7	1573.6
27.5°	636.0	718.7	801.6	884.3	1019.1	1154.2	1289.0	1423.8	1540.5	1634.1	1672.6
30°	619.5	721.0	822.5	924.0	1082.1	1240.3	1398.4	1556.6	1664.4	1768.9	1825.5
32.5°	616.5	746.8	876.9	1007.1	1191.3	1375.3	1559.5	1743.5	1815.1	1907.8	1984.1
35°	624.7	767.9	910.8	1053.8	1265.0	1476.2	1687.1	1898.3	2000.0	2091.8	2158.6
37.5°	649.6	809.3	968.8	1128.6	1383.0	1637.7	1892.1	2146.6	2317.2	2485.1	2515.0
40°	663.6	833.1	1002.4	1171.6	1467.5	1763.5	2059.4	2355.3	2551.5	2735.7	2748.2
42.5°	680.2	863.9	1047.5	1231.2	1559.3	1887.6	2215.7	2543.8	2786.7	2984.7	2990.6
45°	699.2	888.2	1077.4	1266.3	1608.9	1951.3	2293.9	2636.2	2929.9	3170.5	3111.8
47.5°	706.7	909.9	1112.9	1316.0	1681.2	2046.2	2411.5	2776.5	3040.0	3258.9	3202.7
50°	709.6	931.2	1152.6	1374.0	1752.3	2131.0	2509.3	2887.7	3155.8	3369.2	3283.1
52.5°	728.0	970.4	1212.9	1455.3	1849.5	2243.8	2638.0	3032.3	3296.0	3501.1	3394.1
55°	752.7	1028.4	1304.0	1579.7	1987.8	2395.6	2803.7	3211.5	3476.1	3666.9	3534.4
57.5°	775.6	1072.6	1369.4	1666.2	2089.0	2512.1	2934.9	3357.6	3625.7	3814.4	3686.0
60°	764.5	1074.4	1384.4	1694.3	2109.9	2525.2	2940.7	3356.1	3660.4	3886.7	3821.0
62.5°	730.9	1032.3	1333.4	1634.8	2029.2	2423.5	2817.9	3212.2	3568.4	3858.6	3855.7
65°	666.4	943.7	1220.8	1498.1	1863.1	2228.4	2593.4	2958.4	3378.3	3730.8	3753.7
67.5°	587.7	817.9	1048.1	1278.3	1622.1	1965.8	2309.5	2653.2	3102.1	3491.1	3510.8
70°	511.6	680.4	849.0	1017.6	1319.4	1621.2	1922.7	2224.5	2677.9	3071.5	3089.6
72.5°	422.3	532.7	642.8	753.1	997.6	1242.1	1486.3	1730.8	2128.9	2431.6	2533.8
75°	323.6	389.0	454.5	520.0	717.8	915.6	1113.2	1311.0	1575.6	1799.0	1914.1
77.5°	231.3	265.3	299.3	333.3	501.4	669.5	837.4	1005.5	1144.7	1271.3	1349.0
80°	151.8	167.7	183.8	199.6	339.4	479.2	618.8	758.6	843.3	911.3	950.5
82.5°	92.0	99.9	107.6	115.6	228.8	342.1	455.2	568.5	617.0	649.4	684.3
85°	49.6	53.9	58.2	62.5	135.3	207.8	280.5	353.0	357.8	361.6	413.5
87.5°	14.5	15.9	17.0	18.1	29.9	41.9	53.7	65.5	40.8	25.4	52.1
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: P367118
 CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367118

CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	600.0	597.0	594.1	590.9	588.0	575.5	563.3	550.8	538.3	550.4	562.1
5°	747.3	756.3	765.2	774.2	783.3	784.0	784.4	785.1	785.5	787.8	790.1
7.5°	853.3	869.4	885.2	901.3	917.4	929.9	942.3	955.0	967.5	956.2	944.8
10°	862.4	896.3	930.3	964.3	998.3	1004.4	1010.3	1016.4	1022.5	1030.7	1038.6
12.5°	871.4	912.9	954.1	995.6	1037.0	1055.2	1073.1	1091.2	1109.1	1117.9	1126.5
15°	967.3	991.7	1016.0	1040.4	1064.7	1077.1	1089.4	1101.8	1114.3	1121.8	1129.0
17.5°	1090.5	1099.6	1108.4	1117.5	1126.5	1134.9	1143.3	1151.7	1160.1	1161.4	1162.8
20°	1202.9	1204.7	1206.3	1208.1	1209.7	1192.0	1174.6	1156.9	1139.2	1142.4	1145.3
22.5°	1371.5	1361.5	1351.8	1341.8	1332.0	1298.7	1265.7	1232.4	1199.3	1185.0	1171.0
25°	1625.2	1599.9	1574.5	1549.1	1523.7	1470.7	1417.9	1364.9	1312.1	1281.1	1250.3
27.5°	1707.0	1651.7	1596.7	1541.4	1486.1	1446.0	1406.1	1366.0	1326.2	1277.0	1227.8
30°	1872.4	1785.2	1698.2	1611.0	1523.7	1485.0	1446.2	1407.3	1368.5	1318.2	1268.2
32.5°	2019.0	1928.4	1837.8	1746.9	1656.3	1582.9	1509.5	1436.0	1362.6	1328.6	1294.7
35°	2188.7	2074.8	1960.8	1846.8	1732.9	1669.9	1607.1	1544.1	1481.4	1429.9	1378.7
37.5°	2435.9	2314.7	2193.5	2072.0	1950.8	1865.6	1780.7	1695.5	1610.5	1582.2	1554.1
40°	2671.6	2528.4	2385.4	2242.2	2099.2	2034.0	1968.7	1903.2	1838.0	1790.2	1742.4
42.5°	2868.9	2727.3	2585.9	2444.3	2302.9	2255.3	2208.0	2160.4	2113.1	2073.6	2034.2
45°	2936.7	2821.1	2705.8	2590.2	2474.7	2457.9	2441.4	2424.6	2408.1	2378.8	2349.6
47.5°	3045.7	2927.8	2810.2	2692.4	2574.6	2580.7	2586.8	2593.2	2599.3	2600.9	2602.2
50°	3109.8	2997.8	2886.1	2774.2	2662.5	2692.2	2721.6	2751.3	2781.0	2848.3	2915.4
52.5°	3203.3	3093.5	2983.8	2873.9	2764.0	2814.3	2864.4	2914.7	2964.8	3059.0	3153.3
55°	3320.7	3215.6	3110.7	3005.5	2900.6	2949.6	2998.3	3047.2	3096.0	3200.9	3305.8
57.5°	3476.4	3363.8	3251.4	3138.8	3026.4	3071.5	3116.3	3161.4	3206.3	3306.0	3405.7
60°	3653.6	3531.2	3408.9	3286.3	3163.9	3176.4	3188.6	3201.1	3213.3	3321.4	3429.2
62.5°	3740.6	3627.3	3514.2	3400.9	3287.6	3253.0	3218.3	3183.4	3148.7	3245.5	3342.0
65°	3665.1	3587.2	3509.5	3431.5	3353.6	3292.4	3231.4	3170.3	3109.1	3169.6	3229.9
67.5°	3424.9	3380.8	3336.8	3292.6	3248.4	3145.8	3043.2	2940.3	2837.7	2841.7	2845.6
70°	3035.7	3023.9	3012.3	3000.6	2988.8	2834.5	2680.4	2526.1	2371.8	2348.2	2324.7
72.5°	2542.4	2550.1	2557.6	2565.3	2573.0	2407.2	2241.3	2075.4	1909.6	1870.4	1831.2
75°	1969.2	2011.8	2054.4	2097.2	2139.8	1981.2	1822.6	1663.8	1505.2	1456.9	1408.6
77.5°	1391.4	1470.9	1550.2	1629.8	1709.3	1565.9	1422.7	1279.3	1135.8	1104.6	1073.3
80°	970.2	1009.2	1048.1	1087.1	1126.1	1054.0	982.0	909.9	837.9	846.5	854.9
82.5°	706.7	715.8	724.6	733.7	742.7	713.3	683.8	654.1	624.7	647.1	669.5
85°	452.7	485.1	517.3	549.7	581.9	549.2	516.6	483.7	451.1	466.1	481.0
87.5°	101.3	160.2	219.1	278.2	337.1	305.4	273.9	242.2	210.5	196.2	182.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367118
 CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367118

CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	574.1	586.2	582.5	579.1	575.5	571.9	578.5	585.0	591.8	598.4	596.1
5°	792.6	794.8	773.3	752.0	730.5	709.0	722.3	735.7	749.1	762.4	757.7
7.5°	933.5	922.2	909.7	897.2	884.6	872.1	869.4	866.7	863.7	861.0	857.4
10°	1046.8	1054.7	1046.6	1038.6	1030.5	1022.3	1003.3	984.3	965.0	946.0	938.0
12.5°	1135.4	1144.2	1146.3	1148.1	1150.1	1152.1	1130.8	1109.8	1088.5	1067.2	1047.9
15°	1136.5	1144.0	1150.6	1156.9	1163.5	1169.8	1156.7	1143.8	1130.6	1117.5	1111.4
17.5°	1164.4	1165.7	1160.3	1155.1	1149.7	1144.4	1139.2	1134.2	1129.0	1124.0	1114.3
20°	1148.5	1151.7	1151.0	1150.3	1149.4	1148.7	1149.2	1149.4	1149.9	1150.1	1144.7
22.5°	1156.7	1142.4	1145.3	1148.1	1151.0	1153.7	1161.9	1170.0	1178.4	1186.6	1208.3
25°	1219.2	1188.2	1183.4	1178.9	1174.1	1169.6	1190.9	1212.0	1233.3	1254.6	1289.9
27.5°	1178.4	1129.3	1118.4	1107.5	1096.6	1085.8	1118.2	1150.3	1182.7	1215.1	1251.2
30°	1217.9	1167.8	1143.8	1119.7	1095.5	1071.5	1102.5	1133.3	1164.4	1195.2	1235.1
32.5°	1260.7	1226.7	1210.6	1194.7	1178.7	1162.8	1165.3	1167.8	1170.3	1172.8	1229.0
35°	1327.3	1275.9	1260.0	1244.1	1228.3	1212.4	1238.9	1265.2	1291.7	1318.0	1365.6
37.5°	1525.8	1497.4	1468.9	1440.4	1411.6	1383.0	1398.7	1414.3	1429.9	1445.6	1490.4
40°	1694.6	1646.8	1642.0	1637.5	1632.7	1628.0	1629.3	1630.4	1631.8	1633.2	1671.5
42.5°	1994.6	1955.1	1930.9	1906.6	1882.4	1858.2	1856.6	1855.0	1853.2	1851.6	1880.4
45°	2320.2	2290.9	2272.8	2254.7	2236.3	2218.2	2189.4	2160.6	2131.6	2102.9	2128.0
47.5°	2603.8	2605.4	2638.3	2670.9	2703.7	2736.6	2687.4	2638.3	2589.1	2539.9	2507.5
50°	2982.7	3049.7	3057.7	3065.4	3073.3	3081.2	2997.8	2914.7	2831.3	2747.9	2713.9
52.5°	3247.8	3342.0	3329.8	3317.8	3305.5	3293.3	3245.0	3197.0	3148.7	3100.5	3026.4
55°	3410.9	3515.8	3506.5	3497.4	3488.2	3478.9	3443.7	3408.6	3373.5	3338.4	3257.0
57.5°	3505.4	3605.1	3607.8	3610.5	3613.2	3615.9	3606.7	3597.4	3588.1	3578.8	3473.0
60°	3537.3	3645.4	3646.5	3647.4	3648.6	3649.5	3634.8	3620.0	3605.1	3590.3	3521.2
62.5°	3438.8	3535.3	3539.6	3543.7	3548.0	3552.3	3542.1	3531.9	3521.7	3511.5	3460.3
65°	3290.4	3350.9	3352.0	3352.9	3354.0	3355.2	3329.3	3303.7	3277.9	3252.1	3239.8
67.5°	2849.7	2853.7	2877.8	2901.8	2925.8	2949.8	2951.8	2953.9	2956.2	2958.2	2940.5
70°	2301.1	2277.6	2303.6	2329.7	2355.7	2381.8	2392.9	2404.0	2415.3	2426.4	2434.6
72.5°	1791.8	1752.6	1771.8	1791.1	1810.6	1829.8	1813.3	1796.8	1780.2	1763.7	1816.0
75°	1360.4	1312.1	1309.6	1307.4	1304.9	1302.6	1294.2	1285.8	1277.2	1268.8	1317.8
77.5°	1041.8	1010.5	1012.1	1013.5	1015.1	1016.4	1007.8	999.4	990.8	982.2	1001.0
80°	863.5	871.9	872.1	872.3	872.5	872.8	864.6	856.7	848.5	840.4	826.8
82.5°	692.2	714.6	714.4	714.4	714.2	713.9	713.5	713.0	712.4	711.9	689.7
85°	496.0	510.9	495.5	480.1	464.7	449.3	460.6	472.0	483.5	494.8	485.6
87.5°	167.9	153.8	135.5	117.4	99.0	80.7	100.4	120.1	140.0	159.7	171.1
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: P367118
 CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367118

CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	594.1	591.8	589.8	575.5	561.0	546.7	532.2	558.5	585.0	611.3	637.6
5°	753.1	748.4	743.9	742.7	741.6	740.2	739.1	752.5	765.8	779.0	792.3
7.5°	853.7	850.1	846.5	837.0	827.7	818.2	808.7	816.8	824.7	832.9	840.8
10°	930.3	922.4	914.5	893.8	873.5	852.8	832.2	826.1	820.0	813.9	807.7
12.5°	1028.7	1009.2	989.9	966.6	943.0	919.7	896.1	892.9	889.8	886.8	883.7
15°	1105.5	1099.4	1093.2	1074.7	1056.1	1037.5	1018.9	994.0	968.8	943.9	919.0
17.5°	1104.8	1095.0	1085.5	1110.5	1135.2	1160.1	1184.8	1158.3	1131.5	1105.0	1078.5
20°	1139.2	1133.6	1128.1	1174.1	1219.9	1265.9	1311.7	1297.2	1282.4	1267.9	1253.2
22.5°	1229.9	1251.6	1273.1	1312.6	1351.8	1391.2	1430.4	1446.9	1463.5	1480.0	1496.5
25°	1325.0	1360.4	1395.7	1454.4	1512.9	1571.5	1630.2	1642.0	1653.8	1665.6	1677.4
27.5°	1287.0	1323.0	1359.0	1403.4	1447.6	1492.0	1536.2	1587.9	1639.7	1691.4	1743.1
30°	1274.7	1314.6	1354.3	1415.2	1475.9	1536.9	1597.8	1669.0	1740.1	1811.0	1882.2
32.5°	1284.9	1341.1	1397.3	1479.8	1562.0	1644.5	1727.0	1801.7	1876.7	1951.5	2026.3
35°	1412.9	1460.5	1507.9	1600.1	1692.3	1784.5	1876.7	1964.4	2052.1	2139.6	2227.3
37.5°	1535.1	1579.9	1624.8	1719.0	1813.1	1907.3	2001.6	2140.0	2278.7	2417.1	2555.6
40°	1709.5	1747.8	1785.9	1866.5	1947.2	2027.9	2108.5	2275.5	2442.5	2609.5	2776.5
42.5°	1908.9	1937.7	1966.2	2049.8	2133.5	2217.1	2300.7	2482.4	2664.3	2846.0	3027.8
45°	2152.9	2178.1	2203.2	2260.8	2318.3	2376.1	2433.7	2621.0	2808.4	2995.8	3183.2
47.5°	2475.1	2442.7	2410.3	2438.7	2467.0	2495.3	2523.6	2709.0	2894.3	3079.4	3264.8
50°	2680.0	2646.0	2612.0	2614.5	2616.7	2619.2	2621.7	2794.6	2967.5	3140.1	3313.0
52.5°	2952.3	2878.0	2803.9	2803.2	2802.5	2801.6	2800.9	2951.6	3102.5	3253.2	3403.9
55°	3175.7	3094.4	3013.0	2997.2	2981.3	2965.2	2949.4	3098.4	3247.3	3396.4	3545.3
57.5°	3367.2	3261.1	3155.3	3130.4	3105.5	3080.5	3055.6	3216.3	3377.1	3537.8	3698.4
60°	3452.4	3383.3	3314.4	3283.8	3253.2	3222.6	3192.0	3328.9	3465.7	3602.4	3739.2
62.5°	3409.3	3358.1	3307.1	3314.1	3321.2	3328.2	3335.2	3413.4	3491.8	3570.0	3648.1
65°	3227.8	3215.6	3203.6	3260.2	3316.9	3373.5	3430.2	3431.3	3432.4	3433.6	3434.7
67.5°	2922.8	2905.2	2887.5	3005.3	3122.9	3240.7	3358.6	3302.6	3246.6	3190.9	3134.9
70°	2442.5	2450.7	2458.6	2619.0	2779.2	2939.6	3100.0	3018.9	2937.6	2856.5	2775.1
72.5°	1868.4	1920.9	1973.3	2139.6	2305.9	2472.2	2638.5	2545.8	2452.9	2360.3	2267.4
75°	1366.7	1415.7	1464.6	1628.9	1793.1	1957.6	2121.9	2011.8	1901.7	1791.8	1681.7
77.5°	1019.8	1038.9	1057.7	1194.3	1330.7	1467.3	1603.7	1493.1	1382.6	1272.2	1161.7
80°	813.4	799.8	786.4	862.1	937.8	1013.5	1089.2	1010.8	932.1	853.7	775.3
82.5°	667.7	645.5	623.5	651.6	679.7	708.1	736.1	673.4	610.6	547.9	485.1
85°	476.3	467.0	457.7	465.8	473.8	481.9	490.1	428.9	367.7	306.8	245.6
87.5°	182.2	193.5	204.8	217.7	230.4	243.3	256.0	200.5	145.0	89.7	34.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	492.4	492.4
2.5°	648.5	659.3
5°	792.1	791.9
7.5°	837.2	833.4
10°	797.8	787.8
12.5°	854.2	824.5
15°	889.5	859.9
17.5°	1033.9	989.0
20°	1200.0	1146.5
22.5°	1415.2	1333.9
25°	1580.1	1482.7
27.5°	1685.3	1627.3
30°	1815.8	1749.4
32.5°	1977.3	1928.2
35°	2182.4	2137.3
37.5°	2541.5	2527.2
40°	2759.5	2742.3
42.5°	3028.4	3028.9
45°	3193.4	3203.6
47.5°	3290.6	3316.2
50°	3368.1	3422.9
52.5°	3478.9	3553.9
55°	3644.9	3744.4
57.5°	3783.2	3867.9
60°	3783.2	3826.9
62.5°	3647.0	3645.6
65°	3413.6	3392.3
67.5°	3108.2	3081.5
70°	2733.4	2691.5
72.5°	2215.5	2163.4
75°	1610.3	1538.7
77.5°	1127.7	1093.5
80°	791.9	808.4
82.5°	508.7	532.2
85°	242.0	238.4
87.5°	28.5	22.9
90°	0.0	0.0
92.5°	0.0	0.0
95°	0.0	0.0
97.5°	0.0	0.0
100°	0.0	0.0
102.5°	0.0	0.0
105°	0.0	0.0
107.5°	0.0	0.0
110°	0.0	0.0



REPORT NUMBER: P367118
CATALOG NUMBER: MSA-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)