

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: P367910

Luminaire Tested: **MSA-SA3B-830-U-SLR**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367910
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-SA3B-830-U-SLR
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) 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: 10007 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

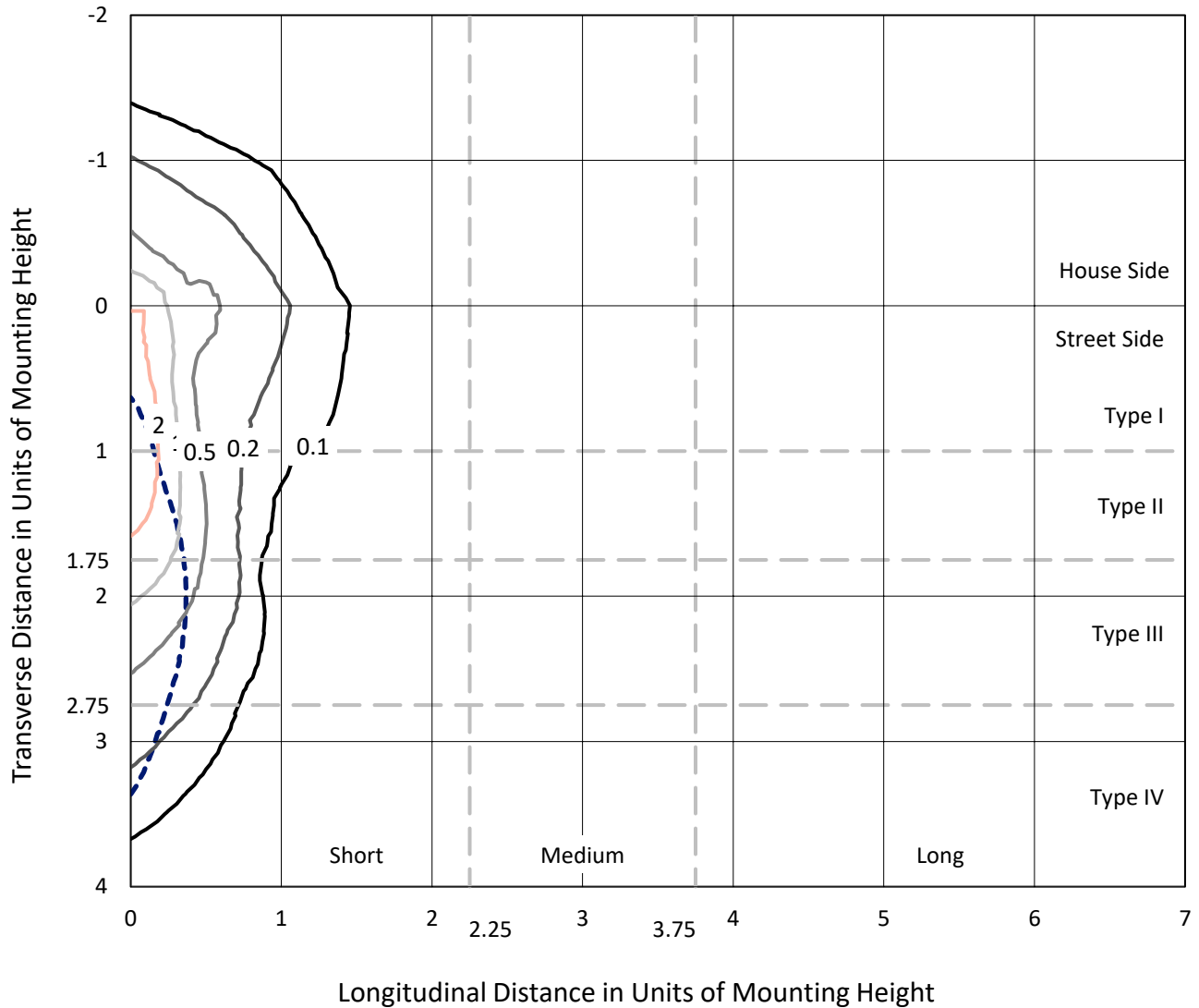
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

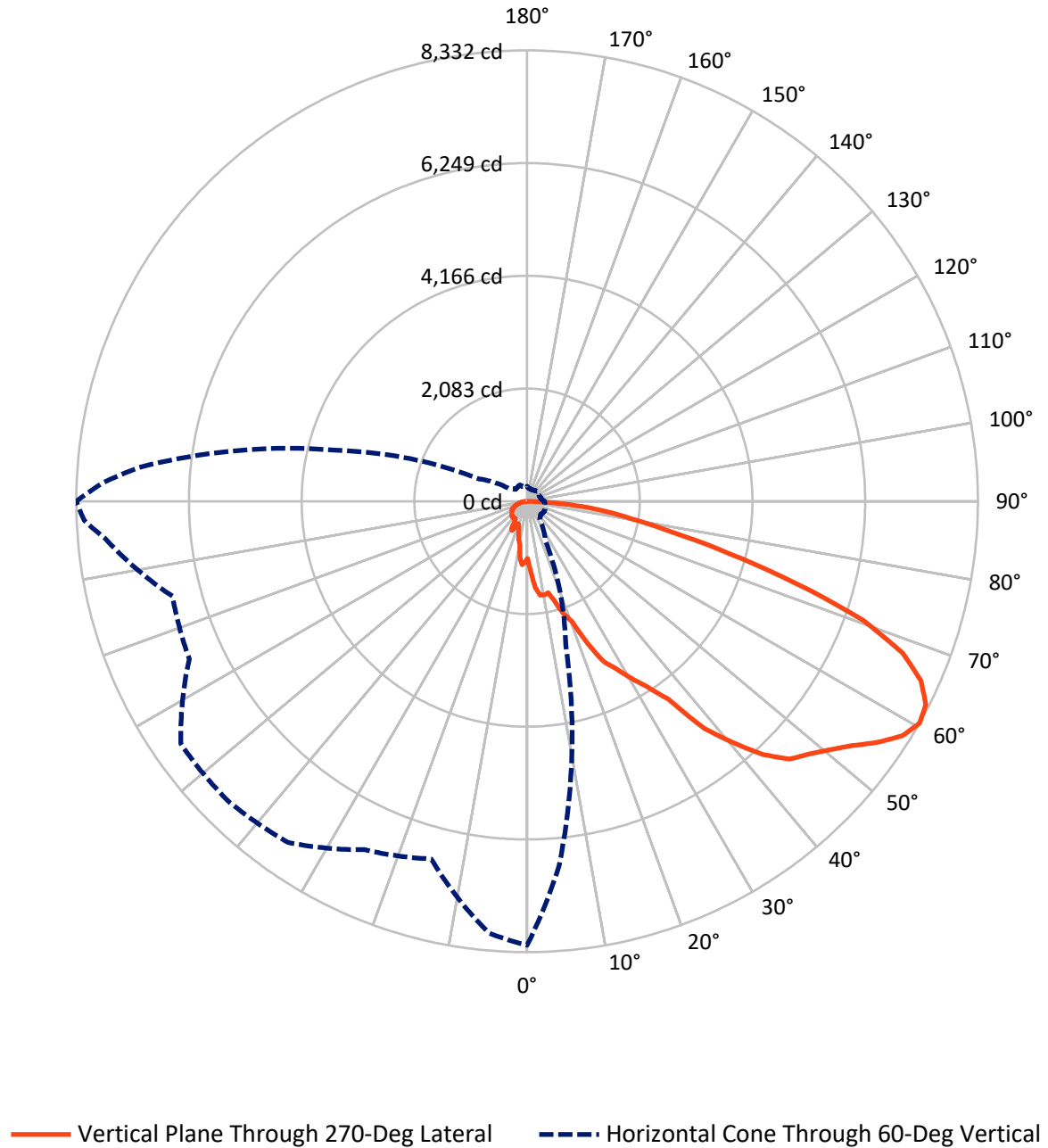
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1938.1	0.0	1938.1
	% Fixture	19.4	0.0	19.4
Street Side	Lumens	8068.8	0.0	8068.8
	% Fixture	80.6	0.0	80.6
Total	Lumens	10007.0	0.0	10007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	1.2
10°-20°	351.6	3.5
20°-30°	620.7	6.2
30°-40°	966.7	9.7
40°-50°	1591.6	15.9
50°-60°	2271.7	22.7
60°-70°	2408.9	24.1
70°-80°	1330.5	13.3
80°-90°	344.2	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°	10007.0	100.0
0°-180°	10007.0	100.0

Coefficient of Utilization



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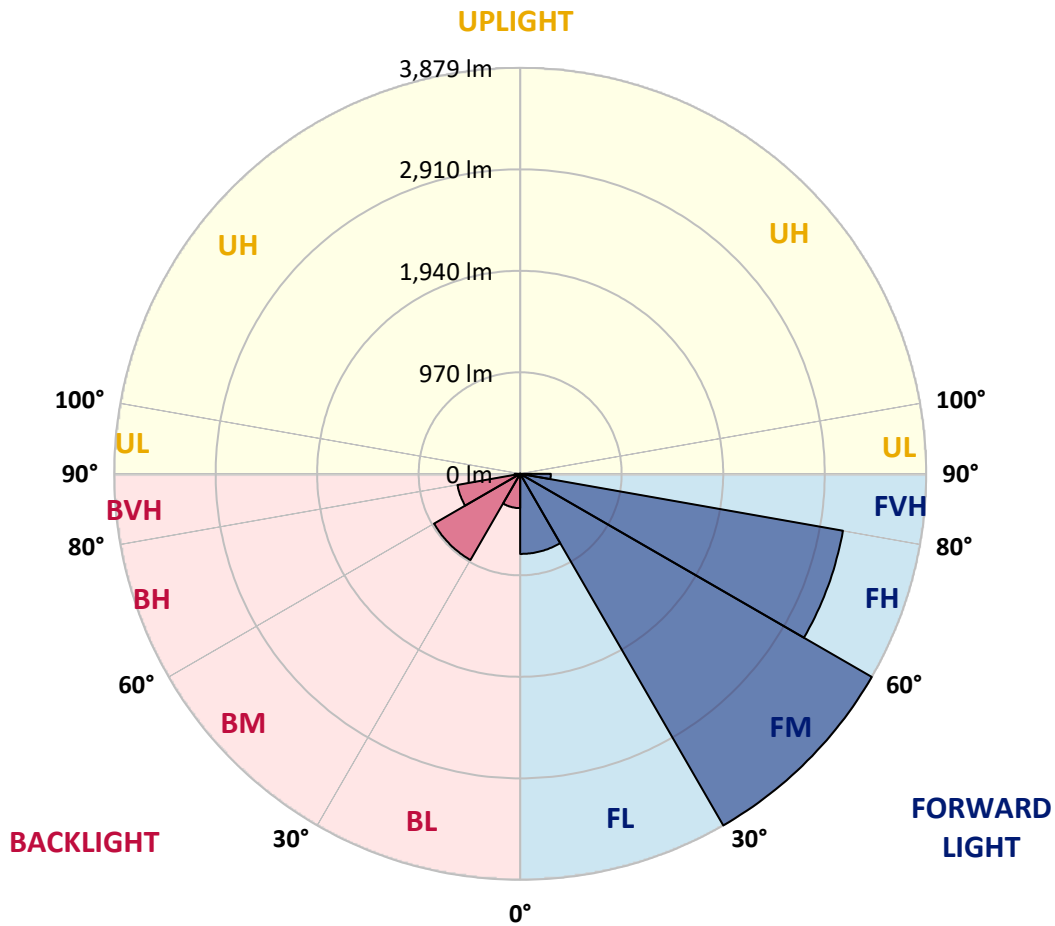
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.7	7.7			
FM (30°-60°)	3879.4	38.8			
FH (60°-80°)	3131.2	31.3			G2/5000
FVH (80°-90°)	292.6	2.9			G3/500
BL (0°-30°)	327.6	3.3	B1/500		
BM (30°-60°)	950.7	9.5	B1/1000		
BH (60°-80°)	608.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	51.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

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°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1413.5	1422.2	1430.5	1413.9	1397.4	1380.4	1363.9	1339.1	1313.9	1289.1	1263.9
5°	1697.6	1665.5	1633.0	1619.9	1607.3	1594.1	1581.0	1568.9	1556.7	1544.1	1532.0
7.5°	1786.5	1740.8	1694.7	1675.3	1655.8	1635.9	1616.5	1572.8	1529.1	1484.9	1441.1
10°	1688.9	1641.3	1593.2	1574.2	1554.8	1535.9	1516.4	1463.0	1410.1	1356.6	1303.2
12.5°	1767.5	1719.0	1669.9	1609.7	1549.5	1488.7	1428.5	1398.9	1369.3	1339.1	1309.5
15°	1843.3	1777.7	1711.7	1651.5	1591.2	1530.5	1470.3	1411.0	1351.8	1292.5	1233.3
17.5°	2120.2	2010.9	1901.6	1792.8	1683.5	1574.7	1465.4	1396.9	1328.0	1259.5	1190.5
20°	2457.8	2305.7	2153.2	1988.1	1822.4	1657.3	1491.7	1405.2	1319.2	1232.8	1146.3
22.5°	2859.5	2667.6	2475.7	2267.4	2059.0	1850.1	1641.7	1516.4	1391.1	1265.3	1140.0
25°	3178.6	2994.0	2809.4	2545.2	2281.0	2016.7	1752.5	1610.2	1467.9	1325.1	1182.7
27.5°	3488.5	3194.6	2900.3	2597.7	2295.5	1992.9	1690.3	1558.7	1427.1	1295.4	1163.8
30°	3750.3	3517.1	3284.0	2889.1	2494.2	2098.8	1703.9	1542.2	1380.4	1218.7	1056.9
32.5°	4133.5	3800.8	3467.6	3055.7	2643.8	2231.9	1820.0	1613.1	1406.2	1199.3	992.3
35°	4581.8	4236.0	3890.2	3380.6	2871.6	2362.1	1852.6	1633.5	1413.9	1194.9	975.3
37.5°	5417.8	4808.2	4198.1	3642.0	3085.8	2529.2	1973.0	1718.5	1464.0	1209.0	954.4
40°	5878.7	5315.3	4751.8	4058.7	3365.6	2672.0	1978.8	1718.5	1457.7	1197.3	936.5
42.5°	6493.2	5780.6	5067.6	4318.1	3569.1	2819.6	2070.2	1781.6	1493.1	1204.1	915.6
45°	6867.6	6073.5	5278.8	4477.9	3676.9	2876.0	2075.0	1782.1	1489.2	1196.3	903.4
47.5°	7109.1	6346.5	5583.4	4721.2	3859.1	2996.4	2134.3	1823.4	1512.1	1201.2	889.8
50°	7337.8	6582.5	5826.7	4931.6	4036.8	3141.7	2246.5	1907.0	1567.4	1227.4	887.9
52.5°	7618.6	6923.0	6227.0	5266.7	4305.9	3345.7	2384.9	2015.3	1645.6	1276.0	906.4
55°	8027.1	7341.7	6655.9	5625.2	4594.0	3563.3	2532.1	2121.6	1711.7	1301.3	890.8
57.5°	8291.8	7596.7	6901.6	5850.5	4799.4	3747.8	2696.7	2242.1	1787.5	1332.3	877.7
60°	8203.9	7486.9	6769.5	5767.5	4765.4	3763.4	2761.3	2270.3	1779.7	1288.6	797.6
62.5°	7815.3	7053.2	6291.1	5393.5	4496.3	3598.7	2701.1	2201.8	1702.9	1203.6	704.3
65°	7272.3	6484.4	5696.1	4886.4	4076.7	3267.0	2457.3	2004.1	1550.4	1097.2	643.6
67.5°	6605.8	5784.5	4962.6	4245.7	3528.8	2811.4	2094.4	1715.6	1337.2	958.3	579.5
70°	5769.9	4962.6	4155.4	3535.1	2914.8	2294.6	1674.3	1389.2	1104.5	819.4	534.3
72.5°	4637.7	3941.2	3244.6	2756.5	2268.3	1780.2	1292.0	1093.8	896.2	698.0	499.8
75°	3298.5	2889.1	2479.6	2099.8	1719.9	1339.6	959.8	831.6	703.3	575.1	446.9
77.5°	2344.1	2102.7	1861.3	1563.5	1265.8	968.0	670.3	595.0	520.2	444.9	369.6
80°	1733.1	1531.5	1329.9	1105.5	881.1	656.7	432.3	395.4	358.9	322.0	285.1
82.5°	1141.0	1050.1	958.8	781.0	603.3	425.5	247.7	234.1	220.5	206.9	193.3
85°	511.0	539.6	567.8	459.0	349.7	240.9	131.6	125.3	119.0	112.7	106.4
87.5°	49.1	72.4	95.7	82.1	68.0	54.4	40.3	39.8	39.8	39.3	38.9
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°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1270.7	1277.5	1284.3	1291.1	1283.8	1276.5	1268.7	1261.4	1252.2	1243.0	1233.3
5°	1511.6	1490.7	1470.3	1449.4	1418.3	1387.2	1355.7	1324.6	1320.7	1316.3	1312.4
7.5°	1402.8	1364.9	1326.5	1288.1	1239.6	1191.5	1142.9	1094.3	1079.8	1065.2	1050.6
10°	1277.5	1251.2	1225.5	1199.3	1169.1	1139.0	1108.4	1078.3	1038.5	998.2	958.3
12.5°	1266.8	1224.0	1180.8	1138.1	1119.6	1101.1	1082.7	1064.2	1029.2	994.3	958.8
15°	1198.8	1163.8	1129.3	1094.3	1067.6	1040.9	1014.2	987.5	959.3	930.6	902.5
17.5°	1150.7	1110.9	1071.0	1031.2	1000.6	970.0	938.9	908.3	874.3	839.8	805.8
20°	1100.6	1055.5	1009.8	964.2	925.3	886.9	848.1	809.2	771.8	734.9	697.5
22.5°	1080.2	1020.5	960.8	901.0	860.2	818.9	778.1	736.8	702.4	667.9	633.4
25°	1111.3	1040.4	969.0	897.6	842.7	787.4	732.5	677.1	648.4	619.8	590.6
27.5°	1074.9	985.5	896.6	807.3	748.5	689.2	630.5	571.2	566.8	562.5	557.6
30°	963.2	869.4	775.7	682.0	628.0	573.6	519.7	465.3	455.1	444.4	434.2
32.5°	896.6	801.0	705.3	609.6	561.5	512.9	464.8	416.3	404.6	393.0	381.3
35°	871.4	767.4	663.5	559.6	518.3	477.0	435.7	394.4	386.2	378.4	370.1
37.5°	851.0	748.0	644.6	541.1	501.3	461.4	421.1	381.3	375.0	368.7	362.3
40°	831.6	727.1	622.2	517.3	481.8	446.9	411.4	376.0	372.1	368.2	363.8
42.5°	814.1	712.6	610.6	509.0	477.5	446.4	414.8	383.2	379.4	375.5	371.6
45°	804.4	705.3	606.2	507.1	484.3	461.4	438.1	415.3	406.1	396.8	387.1
47.5°	797.1	704.3	611.5	518.8	495.0	471.2	447.4	423.6	415.3	407.0	398.3
50°	798.5	709.6	620.3	530.9	502.2	473.1	444.4	415.3	414.3	413.4	412.4
52.5°	811.6	717.4	622.7	528.0	496.9	465.8	434.2	403.2	409.5	415.3	421.6
55°	792.7	694.6	596.0	497.9	468.2	439.1	409.5	379.8	388.1	395.9	404.1
57.5°	771.3	665.0	558.6	452.2	429.9	407.5	384.7	362.3	371.1	380.3	389.1
60°	700.4	603.3	506.1	409.0	393.9	378.9	363.8	348.7	352.6	356.5	360.4
62.5°	622.7	540.6	459.0	376.9	365.3	353.1	341.5	329.3	329.3	329.8	329.8
65°	573.2	502.7	432.3	361.9	348.7	335.6	322.0	308.9	307.0	305.0	303.1
67.5°	523.6	468.2	412.4	356.5	337.6	319.1	300.2	281.2	278.8	276.9	274.4
70°	484.8	435.2	385.7	336.1	314.7	293.9	272.5	251.1	249.2	247.7	245.8
72.5°	453.2	407.0	360.4	313.8	291.4	268.6	246.3	223.4	222.0	220.5	218.6
75°	405.6	364.8	323.5	282.2	260.3	239.0	217.1	195.3	193.3	191.9	189.9
77.5°	335.6	301.1	267.1	232.7	215.7	199.1	182.1	165.1	164.2	163.2	161.7
80°	258.4	231.7	204.5	177.8	166.6	154.9	143.8	132.1	131.6	131.1	130.2
82.5°	177.3	161.3	145.2	129.2	120.9	112.2	103.9	95.2	95.7	96.2	96.7
85°	101.0	95.2	89.9	84.0	77.2	70.9	64.1	57.3	58.8	60.2	61.2
87.5°	36.9	35.0	33.0	31.1	27.7	24.8	21.4	18.0	18.9	20.4	21.4
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: P367910
 CATALOG NUMBER: MSA-SA3B-830-U-SLR

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: P367910
 CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1224.0	1209.5	1194.9	1180.3	1165.7	1135.6	1106.0	1075.9	1045.8	1064.2	1083.2
5°	1308.1	1283.3	1258.0	1233.3	1208.0	1193.9	1179.8	1165.7	1151.7	1158.9	1166.7
7.5°	1036.0	1021.5	1006.4	991.8	976.8	970.5	964.6	958.3	952.0	970.0	988.0
10°	918.0	897.6	877.2	856.3	835.9	823.8	811.6	799.5	787.4	792.2	797.1
12.5°	923.8	893.7	863.6	833.5	803.4	785.4	767.4	749.5	731.5	735.9	740.2
15°	873.8	842.7	811.6	780.6	749.5	728.6	707.2	686.3	665.0	657.7	649.9
17.5°	771.3	737.3	703.3	669.3	635.3	621.2	607.2	593.1	579.0	571.2	563.4
20°	660.1	628.5	597.0	565.4	533.8	524.1	514.4	504.2	494.5	489.6	484.3
22.5°	598.9	579.5	559.6	540.1	520.2	509.0	498.4	487.2	476.0	470.7	464.8
25°	562.0	565.9	570.2	574.1	578.0	573.2	567.8	563.0	557.6	559.6	561.0
27.5°	553.2	561.5	570.2	578.5	586.8	591.1	595.5	599.9	604.2	605.7	607.2
30°	423.6	427.9	431.8	436.2	440.1	452.2	464.4	476.0	488.2	507.1	526.5
32.5°	369.6	368.2	366.7	364.8	363.3	366.2	369.2	371.6	374.5	381.3	388.6
35°	361.9	358.5	354.6	351.2	347.3	348.7	350.2	351.7	353.1	358.5	363.8
37.5°	356.0	354.6	353.6	352.1	350.7	354.1	357.0	360.4	363.3	367.7	372.1
40°	359.9	359.4	358.9	358.0	357.5	359.4	361.4	363.3	365.3	371.1	376.9
42.5°	367.7	367.7	367.2	367.2	366.7	368.7	370.1	372.1	373.5	376.9	380.3
45°	377.9	376.9	376.4	375.5	374.5	374.0	374.0	373.5	373.0	375.0	377.4
47.5°	390.0	386.6	382.8	379.4	375.5	374.5	373.0	372.1	370.6	371.6	372.6
50°	411.4	402.2	393.4	384.2	375.0	372.6	370.1	367.7	365.3	364.8	364.8
52.5°	427.4	413.8	400.2	386.6	373.0	368.7	364.3	359.9	355.5	354.6	354.1
55°	411.9	401.7	392.0	381.8	371.6	365.3	358.5	352.1	345.3	343.9	342.4
57.5°	397.8	391.5	385.2	378.9	372.6	366.2	359.4	353.1	346.3	342.9	339.5
60°	364.3	364.3	364.8	364.8	364.8	358.0	351.2	344.4	337.6	334.2	331.3
62.5°	329.8	335.1	340.0	345.3	350.2	341.0	331.3	322.0	312.3	309.9	307.9
65°	301.1	302.6	304.5	306.0	307.5	300.2	292.9	285.6	278.3	276.9	274.9
67.5°	272.0	271.5	271.0	270.1	269.6	265.2	260.3	256.0	251.1	249.2	247.2
70°	243.8	243.3	242.9	241.9	241.4	237.5	233.6	229.7	225.9	224.4	222.9
72.5°	217.1	216.6	215.7	215.2	214.2	210.8	207.9	204.5	201.1	199.1	197.2
75°	188.0	187.0	186.0	185.1	184.1	181.2	178.3	174.9	171.9	170.0	168.1
77.5°	160.8	159.3	157.9	155.9	154.5	152.0	149.1	146.7	143.8	141.3	139.4
80°	129.7	128.7	127.7	126.3	125.3	122.9	120.5	117.5	115.1	112.2	109.8
82.5°	97.1	96.7	95.7	95.2	94.2	91.8	89.4	86.9	84.5	81.6	78.7
85°	62.7	62.2	61.7	61.2	60.7	58.8	57.3	55.4	53.4	50.5	48.1
87.5°	22.3	21.4	20.9	19.9	18.9	18.5	17.5	17.0	16.0	14.6	13.1
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: P367910
 CATALOG NUMBER: MSA-SA3B-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: P367910
 CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1101.6	1120.1	1120.6	1120.6	1129.3	1137.6	1120.6	1103.6	1086.1	1069.1	1052.1
5°	1174.0	1181.3	1179.3	1176.9	1166.2	1155.5	1144.4	1133.2	1122.0	1110.9	1111.3
7.5°	1005.9	1023.9	1038.5	1052.6	1039.0	1025.4	1018.1	1010.8	1003.5	996.2	995.2
10°	801.4	806.3	812.1	817.5	809.2	800.5	815.0	829.6	843.7	858.3	842.2
12.5°	744.6	749.0	738.8	728.1	724.7	721.3	717.9	714.0	710.6	706.7	704.8
15°	642.6	634.8	627.1	618.8	616.9	614.4	612.0	609.1	606.7	603.8	595.0
17.5°	555.7	547.9	534.8	521.2	515.8	510.0	508.6	507.1	505.2	503.7	495.4
20°	479.4	474.1	470.7	466.8	461.4	456.1	450.8	445.4	439.6	434.2	426.5
22.5°	459.5	453.7	449.3	444.4	443.5	442.5	432.8	422.6	412.9	402.7	398.3
25°	563.0	564.4	537.7	510.5	508.1	505.6	488.2	470.2	452.7	434.7	419.7
27.5°	608.1	609.6	608.6	607.6	599.9	591.6	562.0	531.9	502.2	472.1	450.8
30°	545.5	564.4	571.7	579.0	573.6	567.8	536.7	506.1	475.0	444.0	429.9
32.5°	395.4	402.2	414.3	426.0	432.3	438.1	428.4	418.7	409.0	399.3	396.8
35°	368.7	374.0	376.4	378.9	375.0	371.1	363.8	356.5	348.7	341.5	340.0
37.5°	376.0	380.3	385.2	390.0	379.4	368.2	359.9	352.1	343.9	335.6	328.8
40°	382.8	388.6	391.5	394.4	383.7	373.0	362.8	353.1	342.9	332.7	325.9
42.5°	383.7	387.1	392.5	397.8	382.8	367.2	358.0	348.3	339.0	329.3	322.5
45°	379.4	381.3	386.2	391.0	373.5	355.5	347.3	338.5	330.3	321.5	315.7
47.5°	373.0	374.0	377.9	381.3	362.8	343.9	336.1	328.3	320.1	312.3	306.5
50°	364.3	363.8	366.7	369.2	350.2	331.3	323.5	316.2	308.4	300.7	295.8
52.5°	353.1	352.1	355.1	357.5	337.6	317.7	310.9	304.5	297.7	290.9	287.1
55°	340.5	339.0	341.5	343.9	324.5	304.5	298.7	292.4	286.6	280.3	276.9
57.5°	335.6	332.2	333.7	335.1	313.3	291.4	285.6	279.8	273.9	268.1	265.7
60°	327.9	324.5	325.9	326.9	303.6	279.8	274.4	268.6	263.3	257.4	255.0
62.5°	305.5	303.1	305.0	307.0	286.1	264.7	259.9	255.5	250.6	245.8	242.4
65°	273.5	271.5	275.4	279.3	261.3	243.3	240.4	237.5	234.1	231.2	227.8
67.5°	245.3	243.3	247.2	251.1	238.0	224.9	222.0	219.1	216.1	213.2	211.3
70°	221.5	220.0	223.4	226.8	215.7	204.5	201.6	199.1	196.2	193.3	191.9
72.5°	194.8	192.8	197.2	201.1	191.9	182.1	179.7	176.8	174.4	171.5	170.5
75°	166.1	164.2	168.1	171.5	165.1	158.3	155.9	153.5	151.1	148.6	148.1
77.5°	137.0	134.5	138.4	141.8	137.9	133.6	131.6	129.2	127.3	124.8	124.8
80°	106.9	103.9	106.9	109.3	107.8	106.4	104.9	103.0	101.5	99.6	100.1
82.5°	75.8	72.9	74.3	75.8	76.7	77.7	77.7	77.7	77.7	77.7	77.7
85°	45.2	42.3	42.7	43.2	44.7	46.1	46.6	47.1	47.6	48.1	48.6
87.5°	11.7	10.2	9.2	7.8	9.2	10.2	11.2	11.7	12.6	13.1	13.1
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: P367910
 CATALOG NUMBER: MSA-SA3B-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: P367910
 CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1035.1	1017.6	1000.6	1011.3	1021.5	1032.2	1042.4	1042.8	1042.8	1043.3	1043.3
5°	1112.3	1112.8	1113.3	1103.1	1093.4	1083.2	1073.0	1067.6	1062.3	1056.4	1051.1
7.5°	993.8	992.8	991.4	981.6	971.9	962.2	952.5	929.2	905.4	882.1	858.3
10°	825.7	809.7	793.2	789.3	785.9	782.0	778.1	771.8	766.0	759.7	753.4
12.5°	702.8	700.9	699.0	688.8	678.6	667.9	657.7	657.7	657.7	657.7	657.7
15°	585.8	577.0	567.8	563.0	557.6	552.8	547.4	545.0	542.6	540.1	537.7
17.5°	486.7	478.4	469.7	468.7	467.8	466.8	465.8	463.4	461.0	458.5	456.1
20°	418.7	410.9	403.2	406.1	409.0	411.4	414.3	411.9	409.5	406.6	404.1
22.5°	393.4	389.1	384.2	381.8	379.4	376.4	374.0	374.0	374.5	374.5	374.5
25°	405.1	390.0	375.0	367.7	360.4	352.6	345.3	342.4	340.0	337.1	334.2
27.5°	429.4	407.5	386.2	373.5	360.9	348.3	335.6	330.3	324.5	319.1	313.3
30°	415.3	401.2	386.6	372.1	357.5	342.9	328.3	321.5	314.7	307.5	300.7
32.5°	394.4	391.5	389.1	375.5	361.9	347.8	334.2	331.3	328.8	325.9	323.0
35°	338.1	336.6	334.7	331.3	327.9	324.5	321.1	317.2	313.3	309.4	305.5
37.5°	322.5	315.7	308.9	307.5	306.0	304.5	303.1	301.6	300.2	298.2	296.8
40°	319.1	312.3	305.5	303.1	300.7	297.7	295.3	295.8	296.8	297.3	297.7
42.5°	315.2	308.4	301.1	299.2	297.3	295.3	293.4	293.9	294.8	295.3	295.8
45°	310.4	304.5	298.7	295.3	292.4	289.0	285.6	288.5	291.4	293.9	296.8
47.5°	300.7	294.3	288.5	286.6	284.6	282.2	280.3	283.2	286.1	288.5	291.4
50°	290.5	285.6	280.3	279.8	279.3	278.3	277.8	279.8	281.7	283.7	285.6
52.5°	282.7	278.8	274.4	274.4	273.9	273.9	273.5	275.4	277.3	278.8	280.7
55°	273.9	270.5	267.1	267.6	268.6	269.1	269.6	271.5	273.9	275.9	277.8
57.5°	262.8	260.3	257.4	259.4	260.8	262.8	264.2	265.7	267.6	269.1	270.5
60°	252.1	249.7	246.7	248.7	251.1	253.1	255.0	256.5	257.9	259.4	260.8
62.5°	239.0	235.1	231.7	234.6	237.0	239.9	242.4	243.3	244.8	245.8	246.7
65°	224.9	221.5	218.1	220.0	222.0	223.4	225.4	226.8	228.3	229.7	231.2
67.5°	208.9	206.9	204.5	205.9	207.4	208.9	210.3	210.8	210.8	211.3	211.3
70°	189.9	188.5	186.5	187.5	188.9	189.9	190.9	190.9	190.9	190.4	190.4
72.5°	170.0	169.0	168.1	168.5	169.5	170.0	170.5	170.0	169.5	169.0	168.5
75°	147.7	147.2	146.7	147.2	148.1	148.6	149.1	148.6	147.7	147.2	146.2
77.5°	125.3	125.3	125.3	125.3	125.8	125.8	125.8	124.8	123.9	122.9	121.9
80°	100.5	101.0	101.5	101.5	101.5	101.5	101.5	100.5	99.6	98.1	97.1
82.5°	77.7	77.7	77.7	77.7	78.2	78.2	78.2	75.8	73.8	71.4	69.0
85°	48.6	49.1	49.1	49.5	50.0	50.0	50.5	47.1	44.2	40.8	37.4
87.5°	13.1	13.1	13.1	13.1	13.1	12.6	12.6	9.7	6.3	3.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367910
 CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367910
 CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1046.2	1049.2	1051.6	1054.5	1055.0	1055.5	1055.5	1056.0	1045.8	1035.6	1024.9
5°	1058.4	1065.2	1072.5	1079.3	1077.8	1076.4	1074.9	1073.4	1070.5	1068.1	1065.2
7.5°	852.9	848.1	842.7	837.4	841.8	846.1	850.5	854.9	856.8	858.8	860.2
10°	741.2	729.1	716.9	704.8	698.0	690.7	683.9	676.6	675.6	675.2	674.2
12.5°	645.0	631.9	619.3	606.2	602.3	597.9	594.0	589.7	593.6	597.4	600.8
15°	532.4	527.5	522.2	516.8	521.2	525.6	529.9	534.3	538.2	541.6	545.5
17.5°	453.7	451.7	449.3	446.9	450.8	455.1	459.0	462.9	471.6	480.4	489.1
20°	402.2	400.7	398.8	396.8	395.4	393.4	392.0	390.0	402.7	414.8	427.4
22.5°	371.6	368.7	365.7	362.8	363.3	363.8	363.8	364.3	374.5	385.2	395.4
25°	333.2	332.2	331.3	330.3	333.2	336.1	338.5	341.5	350.7	359.9	368.7
27.5°	313.8	314.3	314.7	315.2	319.1	323.5	327.4	331.3	337.6	343.9	350.2
30°	303.1	306.0	308.4	310.9	312.3	313.8	315.2	316.7	323.0	328.8	335.1
32.5°	319.1	315.2	310.9	307.0	308.9	311.3	313.3	315.2	321.1	326.9	332.7
35°	304.1	302.1	300.7	298.7	301.1	303.6	305.5	307.9	313.3	318.1	323.5
37.5°	296.3	295.8	295.3	294.8	296.3	297.7	298.7	300.2	305.0	309.9	314.3
40°	295.8	293.4	291.4	289.0	290.5	291.9	292.9	294.3	300.2	306.0	311.8
42.5°	292.9	290.0	286.6	283.7	285.1	287.1	288.5	290.0	296.3	302.1	308.4
45°	292.4	288.0	283.2	278.8	280.7	282.7	284.6	286.6	291.4	296.3	300.7
47.5°	287.1	282.7	278.3	273.9	274.9	275.9	276.4	277.3	281.7	285.6	290.0
50°	282.7	279.3	276.4	273.0	271.5	270.5	269.1	267.6	271.0	274.4	277.8
52.5°	277.3	273.9	270.1	266.7	264.7	262.8	260.8	258.9	261.8	264.2	267.1
55°	273.9	269.6	265.7	261.3	258.9	256.5	254.0	251.6	253.5	255.0	256.9
57.5°	266.7	262.8	258.4	254.5	251.6	248.7	245.3	242.4	243.3	244.3	245.3
60°	256.9	252.6	248.7	244.3	240.9	237.5	233.6	230.2	230.7	231.7	232.2
62.5°	242.9	239.0	234.6	230.7	226.8	223.4	219.5	215.7	216.6	217.1	218.1
65°	227.3	222.9	219.1	214.7	211.3	207.9	204.0	200.6	201.6	202.5	203.0
67.5°	208.4	205.0	202.1	198.7	195.7	192.3	189.4	186.0	186.5	187.0	187.5
70°	188.0	185.1	182.6	179.7	177.3	174.9	172.4	170.0	170.0	170.5	170.5
72.5°	166.1	163.7	161.3	158.8	156.4	154.5	152.0	149.6	150.6	151.5	152.0
75°	143.8	141.8	139.4	137.0	135.0	133.1	130.7	128.7	129.7	130.7	131.1
77.5°	120.5	119.0	117.1	115.6	113.7	111.7	109.3	107.3	108.3	109.3	109.8
80°	96.2	95.2	93.7	92.8	90.8	88.9	86.9	85.0	85.5	85.5	86.0
82.5°	69.5	69.9	69.9	70.4	69.0	67.0	65.6	63.6	63.6	63.6	63.1
85°	38.9	40.8	42.3	43.7	42.3	40.8	39.3	37.9	37.4	37.4	36.9
87.5°	1.5	2.4	3.9	4.9	4.4	3.9	2.9	2.4	2.9	3.4	3.4
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: P367910
 CATALOG NUMBER: MSA-SA3B-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: P367910
 CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1014.7	1022.9	1031.2	1039.4	1047.7	1060.3	1073.0	1086.1	1099.2	1091.9	1084.1
5°	1062.3	1067.1	1072.5	1077.3	1082.2	1096.3	1109.9	1126.9	1143.4	1141.5	1139.0
7.5°	862.2	869.0	875.8	882.1	888.9	910.2	931.6	949.6	967.6	965.1	962.2
10°	673.2	687.3	701.9	716.0	730.0	747.5	764.5	779.6	794.6	819.9	844.7
12.5°	604.7	626.6	648.4	670.3	692.2	704.8	716.9	736.4	755.8	769.4	783.5
15°	548.9	569.3	589.7	610.1	630.5	631.4	632.4	652.8	673.2	684.9	696.0
17.5°	497.9	509.0	520.2	530.9	542.1	538.2	534.3	544.0	553.2	558.1	563.4
20°	439.6	447.4	455.1	462.9	470.7	476.0	480.9	486.7	492.0	487.2	481.8
22.5°	405.6	417.2	429.4	441.0	452.7	456.1	459.0	455.6	452.2	450.8	449.3
25°	377.9	392.0	406.6	420.6	434.7	441.5	448.3	451.2	453.7	448.3	443.0
27.5°	356.5	373.5	390.0	407.0	423.6	435.7	447.8	451.2	454.2	450.3	445.9
30°	341.0	359.4	377.9	396.4	414.8	433.3	451.2	467.3	482.8	481.4	479.9
32.5°	338.5	351.2	363.8	376.4	389.1	400.7	411.9	412.9	413.4	409.5	405.1
35°	328.3	336.6	344.9	353.1	361.4	368.7	375.5	374.5	373.5	369.6	365.7
37.5°	319.1	327.4	336.1	344.4	352.6	365.3	377.4	375.0	372.1	368.2	364.3
40°	317.7	326.9	336.1	344.9	354.1	365.7	377.4	375.0	372.6	367.7	362.8
42.5°	314.3	323.5	332.2	341.5	350.2	364.3	377.9	373.5	368.7	364.8	360.9
45°	305.5	313.8	322.0	330.3	338.5	353.6	368.7	363.3	358.0	356.5	354.6
47.5°	293.9	302.1	310.4	318.6	326.9	341.9	356.5	352.1	347.3	346.8	345.8
50°	281.2	289.0	297.3	305.0	312.8	327.9	342.4	338.5	334.7	335.1	335.1
52.5°	269.6	276.9	283.7	290.9	297.7	312.8	327.4	324.5	321.1	322.0	322.5
55°	258.4	264.2	270.1	275.9	281.7	296.3	310.9	306.5	302.1	303.6	305.0
57.5°	246.3	251.1	256.0	260.3	265.2	279.8	293.9	289.0	283.7	286.1	288.0
60°	232.7	237.0	241.4	245.3	249.7	262.8	275.4	271.0	266.2	269.6	272.5
62.5°	218.6	222.0	225.4	228.8	232.2	244.3	256.5	253.1	249.7	253.5	256.9
65°	204.0	206.4	209.3	211.8	214.2	225.9	237.0	234.6	232.2	235.6	239.0
67.5°	188.0	189.9	192.3	194.3	196.2	206.9	217.6	215.2	212.3	215.2	217.6
70°	170.5	172.4	173.9	175.8	177.3	187.0	196.7	193.3	189.4	192.3	194.8
72.5°	153.0	154.0	155.4	156.4	157.4	164.7	171.9	169.0	166.1	169.0	171.5
75°	132.1	133.1	134.1	135.0	136.0	142.3	148.1	144.7	140.9	143.8	146.7
77.5°	110.7	111.2	112.2	112.7	113.2	117.5	121.4	118.0	114.1	117.5	120.9
80°	86.0	86.5	86.9	86.9	87.4	88.9	90.3	87.9	85.0	89.4	93.7
82.5°	63.1	62.7	62.7	62.2	61.7	61.7	61.2	59.7	57.8	61.7	65.6
85°	36.4	35.9	35.0	34.5	33.5	32.1	30.6	30.1	29.6	33.0	36.4
87.5°	3.9	3.4	2.4	1.9	1.0	0.5	0.0	0.0	0.0	1.9	4.4
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: P367910
 CATALOG NUMBER: MSA-SA3B-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: P367910

CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1076.8	1069.1	1061.8	1054.5	1047.2	1039.9	1053.5	1067.1	1080.7	1094.3	1106.5
5°	1137.1	1134.7	1128.3	1122.5	1116.2	1109.9	1113.3	1117.2	1120.6	1124.0	1131.3
7.5°	959.8	956.9	970.5	983.6	997.2	1010.3	1013.7	1016.6	1020.0	1022.9	1021.0
10°	869.9	894.7	901.0	906.8	913.2	919.0	928.7	938.4	947.6	957.4	962.7
12.5°	797.1	810.7	833.0	855.8	878.2	900.5	915.1	929.7	944.2	958.8	988.9
15°	707.7	718.9	735.9	752.9	769.9	786.9	807.8	829.1	850.0	870.9	903.9
17.5°	568.3	573.2	585.8	598.4	610.6	623.2	651.4	679.0	707.2	734.9	772.8
20°	477.0	471.6	471.6	472.1	472.1	472.1	500.3	528.0	556.2	583.8	633.9
22.5°	447.4	445.9	440.6	434.7	429.4	423.6	438.1	453.2	467.8	482.3	523.1
25°	437.2	431.8	425.0	418.2	411.4	404.6	413.8	423.1	432.3	441.5	473.6
27.5°	442.0	437.6	441.0	444.0	447.4	450.3	453.2	456.1	459.0	461.9	473.1
30°	478.4	477.0	482.3	487.2	492.5	497.4	490.6	484.3	477.5	470.7	474.6
32.5°	401.2	396.8	394.9	393.0	391.0	389.1	388.6	388.1	387.1	386.6	395.4
35°	361.9	358.0	355.1	352.1	348.7	345.8	347.3	348.3	349.7	350.7	360.4
37.5°	360.4	356.5	353.1	349.7	345.8	342.4	343.9	345.8	347.3	348.7	356.0
40°	358.0	353.1	351.2	349.2	347.3	345.3	346.3	347.3	347.8	348.7	354.1
42.5°	356.5	352.6	351.7	350.7	349.7	348.7	349.7	350.7	351.2	352.1	358.5
45°	353.1	351.2	352.1	353.1	354.1	355.1	355.1	355.1	355.1	355.1	361.9
47.5°	345.3	344.4	347.3	350.2	353.1	356.0	360.9	365.7	370.1	375.0	376.4
50°	335.6	335.6	340.5	345.3	349.7	354.6	366.2	377.4	389.1	400.2	393.0
52.5°	323.5	324.0	331.3	338.1	345.3	352.1	362.8	373.5	383.7	394.4	383.7
55°	306.0	307.5	316.7	325.4	334.7	343.4	351.7	359.9	368.2	376.4	365.3
57.5°	290.5	292.4	302.1	311.3	321.1	330.3	335.1	340.5	345.3	350.2	342.9
60°	275.9	278.8	291.4	304.1	316.2	328.8	324.9	321.1	316.7	312.8	312.3
62.5°	260.8	264.2	275.9	287.5	298.7	310.4	304.5	298.7	292.4	286.6	289.0
65°	241.9	245.3	250.6	250.6	260.8	266.2	265.7	265.7	265.2	264.7	269.6
67.5°	220.5	222.9	226.3	229.3	232.7	235.6	237.5	239.9	241.9	243.8	249.7
70°	197.7	200.1	203.5	206.4	209.8	212.7	215.2	217.6	219.5	222.0	227.8
72.5°	174.4	176.8	180.2	183.6	186.5	189.9	191.9	193.8	195.3	197.2	202.1
75°	149.6	152.5	155.9	158.8	162.2	165.1	166.6	168.1	169.5	171.0	175.3
77.5°	124.3	127.7	131.1	134.5	137.9	141.3	141.8	142.3	142.8	143.3	147.2
80°	97.6	102.0	105.4	108.8	112.2	115.6	115.6	115.6	115.6	115.6	117.5
82.5°	69.5	73.3	77.2	80.6	84.5	87.9	87.9	87.4	87.4	86.9	86.9
85°	39.8	43.2	45.7	48.6	51.0	53.4	53.4	53.4	52.9	52.9	52.0
87.5°	6.3	8.3	9.2	10.7	11.7	12.6	12.1	12.1	11.7	11.2	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367910
 CATALOG NUMBER: MSA-SA3B-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: P367910

CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1118.6	1130.8	1142.9	1141.0	1139.0	1137.1	1135.1	1142.4	1149.2	1156.5	1163.3
5°	1138.1	1145.3	1152.1	1157.5	1162.8	1168.2	1173.5	1198.3	1222.6	1247.3	1271.6
7.5°	1019.0	1016.6	1014.7	1037.5	1060.8	1083.6	1106.5	1138.1	1169.6	1201.2	1232.8
10°	968.0	973.4	978.7	988.0	997.7	1006.9	1016.1	1047.2	1078.3	1109.4	1140.5
12.5°	1018.6	1048.7	1078.3	1085.6	1093.4	1100.6	1107.9	1114.3	1120.6	1126.4	1132.7
15°	937.0	970.0	1003.0	1022.0	1040.9	1059.4	1078.3	1125.9	1173.0	1220.6	1267.7
17.5°	810.2	848.1	885.5	932.1	978.7	1025.4	1072.0	1115.7	1159.4	1202.7	1246.4
20°	683.9	733.4	783.5	834.5	885.0	936.0	986.5	1029.2	1072.0	1114.3	1157.0
22.5°	563.4	604.2	644.6	706.7	768.4	830.6	892.3	971.9	1051.1	1130.8	1209.9
25°	505.2	537.2	568.8	632.9	697.0	760.6	824.8	928.2	1031.2	1134.7	1237.6
27.5°	484.8	495.9	507.1	565.4	623.2	681.5	739.3	851.0	962.7	1073.9	1185.7
30°	478.4	482.3	486.2	531.9	577.5	623.2	668.8	779.1	889.8	1000.1	1110.4
32.5°	403.6	412.4	420.6	465.3	509.5	554.2	598.4	709.6	820.4	931.6	1042.4
35°	370.1	379.8	389.6	433.3	477.0	520.2	563.9	681.0	798.5	915.6	1032.6
37.5°	363.3	370.6	377.9	427.4	477.0	526.5	576.1	694.6	813.1	931.6	1050.1
40°	359.9	365.3	370.6	418.7	467.3	515.4	563.4	687.8	811.6	936.0	1059.8
42.5°	364.3	370.6	376.4	420.2	463.4	507.1	550.3	679.0	807.3	936.0	1064.2
45°	368.2	375.0	381.3	422.1	462.9	503.7	544.5	682.0	818.9	956.4	1093.4
47.5°	377.4	378.9	379.8	415.3	450.3	485.7	520.7	660.6	800.5	939.9	1079.8
50°	385.2	377.9	370.1	407.0	443.5	480.4	516.8	649.4	782.0	914.1	1046.7
52.5°	373.0	361.9	351.2	391.0	430.8	470.2	510.0	642.6	775.7	908.3	1040.9
55°	354.6	343.4	332.2	372.6	412.9	453.2	493.5	625.6	758.2	890.3	1022.4
57.5°	336.1	328.8	321.5	354.6	388.1	421.1	454.2	597.4	740.2	883.5	1026.3
60°	311.8	310.9	310.4	336.1	362.3	388.1	413.8	554.2	694.1	834.5	974.4
62.5°	290.9	293.4	295.3	316.2	337.1	357.5	378.4	513.9	649.9	785.4	920.9
65°	274.9	279.8	284.6	308.4	332.2	355.5	379.4	493.0	606.7	720.3	834.0
67.5°	255.5	261.3	267.1	298.2	329.3	360.4	391.5	485.2	579.0	672.7	766.5
70°	233.1	239.0	244.3	284.1	323.5	363.3	402.7	485.7	569.3	652.3	735.4
72.5°	206.9	211.8	216.6	259.4	302.1	344.9	387.6	458.0	528.5	598.4	668.8
75°	180.2	184.6	188.9	225.9	262.8	299.7	336.6	391.0	444.9	499.3	553.2
77.5°	150.6	154.5	157.9	182.6	207.4	232.2	256.9	298.7	340.0	381.8	423.1
80°	119.5	121.4	123.4	137.9	152.0	166.6	180.7	208.4	236.1	263.3	290.9
82.5°	87.4	87.4	87.4	96.7	106.4	115.6	124.8	138.9	152.5	166.6	180.2
85°	51.0	49.5	48.6	54.9	61.2	67.5	73.8	79.7	85.5	91.3	97.1
87.5°	8.3	6.3	4.9	8.7	12.6	16.5	20.4	22.3	24.8	26.7	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367910
 CATALOG NUMBER: MSA-SA3B-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: P367910

CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1146.8	1130.8	1114.3	1097.7	1122.0	1146.3	1170.6	1194.9	1259.5	1297.9	1300.3
5°	1292.0	1312.4	1332.8	1353.2	1373.6	1394.0	1413.9	1434.3	1539.3	1603.9	1616.0
7.5°	1266.3	1300.3	1333.8	1367.3	1425.1	1482.9	1540.7	1598.5	1687.4	1751.5	1793.8
10°	1182.3	1224.0	1265.8	1307.6	1376.1	1445.0	1513.5	1582.0	1676.2	1760.7	1801.1
12.5°	1199.3	1265.8	1331.9	1398.4	1457.7	1517.4	1576.7	1635.9	1701.0	1733.1	1806.4
15°	1313.9	1360.0	1406.2	1452.3	1541.7	1630.6	1719.9	1808.8	1845.8	1919.1	1985.2
17.5°	1331.4	1415.9	1500.9	1585.4	1694.7	1804.0	1913.3	2022.6	2091.0	2185.8	2265.4
20°	1277.0	1396.5	1516.4	1635.9	1776.8	1918.1	2059.0	2199.8	2286.8	2366.4	2489.8
22.5°	1342.1	1474.2	1605.8	1737.9	1924.9	2111.4	2298.4	2485.0	2666.6	2844.4	2927.9
25°	1413.9	1590.7	1767.1	1943.4	2177.0	2410.2	2643.8	2876.9	3110.6	3277.2	3373.4
27.5°	1363.4	1540.7	1718.5	1895.8	2184.8	2474.3	2763.3	3052.3	3302.4	3503.0	3585.6
30°	1328.0	1545.6	1763.2	1980.8	2319.8	2658.9	2997.9	3336.9	3568.1	3792.0	3913.5
32.5°	1321.7	1600.9	1879.8	2159.0	2553.9	2948.3	3343.2	3737.6	3891.1	4089.8	4253.5
35°	1339.1	1646.1	1952.6	2259.1	2711.8	3164.5	3616.7	4069.4	4287.5	4484.2	4627.5
37.5°	1392.6	1735.0	2077.0	2419.4	2964.9	3510.8	4056.3	4601.7	4967.5	5327.4	5391.5
40°	1422.7	1786.0	2148.8	2511.7	3146.0	3780.4	4414.7	5049.1	5469.7	5864.6	5891.3
42.5°	1458.1	1852.1	2245.5	2639.4	3342.8	4046.6	4749.9	5453.2	5973.9	6398.4	6411.1
45°	1498.9	1904.0	2309.6	2714.7	3449.1	4183.1	4917.5	5651.4	6280.9	6796.7	6670.9
47.5°	1515.0	1950.7	2385.9	2821.1	3604.1	4386.6	5169.6	5952.1	6517.0	6986.2	6865.7
50°	1521.3	1996.3	2470.9	2945.4	3756.6	4568.2	5379.4	6190.5	6765.2	7222.7	7038.1
52.5°	1560.6	2080.4	2600.1	3119.8	3965.0	4810.1	5655.3	6500.4	7065.8	7505.4	7276.1
55°	1613.6	2204.7	2795.3	3386.5	4261.3	5135.6	6010.3	6884.6	7452.0	7861.0	7576.8
57.5°	1662.6	2299.4	2935.7	3572.0	4478.4	5385.2	6291.6	7197.9	7772.6	8177.2	7901.8
60°	1638.8	2303.3	2967.8	3632.2	4523.1	5413.4	6304.2	7194.5	7846.9	8332.1	8191.2
62.5°	1566.9	2213.0	2858.5	3504.5	4350.1	5195.3	6040.9	6886.1	7649.7	8271.9	8265.6
65°	1428.5	2023.0	2617.1	3211.6	3994.1	4777.1	5559.6	6342.1	7242.1	7997.9	8047.0
67.5°	1260.0	1753.5	2247.0	2740.5	3477.3	4214.1	4951.0	5687.8	6650.0	7484.0	7526.3
70°	1096.8	1458.6	1820.0	2181.4	2828.4	3475.4	4121.9	4768.8	5740.8	6584.5	6623.3
72.5°	905.4	1141.9	1378.0	1614.5	2138.6	2662.7	3186.3	3710.4	4563.9	5212.8	5431.8
75°	693.6	834.0	974.4	1114.7	1538.8	1962.8	2386.4	2810.4	3377.7	3856.6	4103.4
77.5°	495.9	568.8	641.6	714.5	1074.9	1435.3	1795.2	2155.6	2453.9	2725.4	2892.0
80°	325.4	359.4	393.9	427.9	727.6	1027.3	1326.5	1626.2	1807.9	1953.6	2037.6
82.5°	197.2	214.2	230.7	247.7	490.6	733.4	975.8	1218.7	1322.6	1392.1	1466.9
85°	106.4	115.6	124.8	134.1	290.0	445.4	601.3	756.8	767.0	775.2	886.4
87.5°	31.1	34.0	36.4	38.9	64.1	89.9	115.1	140.4	87.4	54.4	111.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367910
 CATALOG NUMBER: MSA-SA3B-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: P367910

CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1286.2	1279.9	1273.6	1266.8	1260.5	1233.7	1207.5	1180.8	1154.1	1179.8	1205.1
5°	1601.9	1621.3	1640.3	1659.7	1679.1	1680.6	1681.6	1683.0	1684.0	1688.9	1693.7
7.5°	1829.2	1863.7	1897.7	1932.2	1966.7	1993.4	2020.1	2047.3	2074.0	2049.8	2025.5
10°	1848.7	1921.5	1994.4	2067.2	2140.1	2153.2	2165.8	2179.0	2192.1	2209.6	2226.6
12.5°	1868.1	1957.0	2045.4	2134.3	2223.2	2262.0	2300.4	2339.2	2377.6	2396.6	2415.0
15°	2073.6	2126.0	2178.0	2230.4	2282.4	2309.1	2335.4	2362.1	2388.8	2404.8	2420.4
17.5°	2337.8	2357.2	2376.2	2395.6	2415.0	2433.0	2451.0	2468.9	2486.9	2489.8	2492.7
20°	2578.7	2582.6	2586.0	2589.9	2593.3	2555.4	2518.0	2480.1	2442.2	2449.0	2455.3
22.5°	2940.1	2918.7	2897.8	2876.5	2855.6	2784.2	2713.3	2641.9	2570.9	2540.3	2510.2
25°	3484.1	3429.7	3375.3	3320.9	3266.5	3152.8	3039.7	2926.0	2812.8	2746.3	2680.2
27.5°	3659.4	3540.9	3422.9	3304.4	3185.9	3099.9	3014.4	2928.4	2842.9	2737.5	2632.1
30°	4014.0	3827.0	3640.5	3453.5	3266.5	3183.4	3100.4	3016.8	2933.8	2825.9	2718.6
32.5°	4328.3	4134.0	3939.7	3744.9	3550.6	3393.3	3235.9	3078.5	2921.1	2848.3	2775.4
35°	4692.1	4447.8	4203.5	3959.1	3714.8	3579.8	3445.2	3310.2	3175.7	3065.4	2955.6
37.5°	5222.0	4962.2	4702.3	4441.9	4182.1	3999.4	3817.3	3634.7	3452.5	3391.8	3331.6
40°	5727.2	5420.2	5113.7	4806.7	4500.2	4360.3	4220.5	4080.1	3940.2	3837.7	3735.2
42.5°	6150.2	5846.7	5543.6	5240.0	4936.9	4834.9	4733.4	4631.4	4529.9	4445.3	4360.8
45°	6295.5	6047.7	5800.5	5552.8	5305.1	5269.1	5233.7	5197.7	5162.3	5099.6	5037.0
47.5°	6529.1	6276.5	6024.4	5771.9	5519.3	5532.4	5545.5	5559.1	5572.2	5575.6	5578.5
50°	6666.6	6426.6	6187.1	5947.2	5707.7	5771.4	5834.5	5898.1	5961.8	6106.0	6249.8
52.5°	6867.2	6631.6	6396.5	6160.9	5925.3	6033.2	6140.5	6248.3	6355.7	6557.8	6759.8
55°	7118.8	6893.4	6668.5	6443.1	6218.2	6323.2	6427.6	6532.5	6636.9	6861.8	7086.7
57.5°	7452.5	7211.1	6970.1	6728.7	6487.8	6584.5	6680.6	6777.3	6873.5	7087.2	7300.9
60°	7832.3	7570.0	7307.7	7044.9	6782.6	6809.4	6835.6	6862.3	6888.5	7120.2	7351.4
62.5°	8018.8	7776.0	7533.6	7290.7	7047.9	6973.5	6899.2	6824.4	6750.1	6957.5	7164.4
65°	7857.1	7690.0	7523.4	7356.3	7189.2	7058.1	6927.4	6796.2	6665.1	6794.8	6924.0
67.5°	7342.2	7247.5	7153.3	7058.5	6963.8	6743.8	6523.8	6303.2	6083.2	6091.9	6100.2
70°	6507.7	6482.5	6457.7	6432.4	6407.2	6076.4	5746.1	5415.3	5084.6	5034.0	4983.5
72.5°	5450.3	5466.8	5482.8	5499.4	5515.9	5160.3	4804.8	4449.2	4093.7	4009.6	3925.6
75°	4221.4	4312.7	4404.1	4495.9	4587.2	4247.2	3907.2	3566.7	3226.7	3123.2	3019.7
77.5°	2982.8	3153.3	3323.3	3493.8	3664.3	3356.8	3049.9	2742.4	2434.9	2367.9	2300.9
80°	2079.9	2163.4	2247.0	2330.5	2414.0	2259.6	2105.1	1950.7	1796.2	1814.7	1832.6
82.5°	1515.0	1534.4	1553.3	1572.8	1592.2	1529.1	1465.9	1402.3	1339.1	1387.2	1435.3
85°	970.5	1039.9	1108.9	1178.4	1247.3	1177.4	1107.5	1037.0	967.1	999.1	1031.2
87.5°	217.1	343.4	469.7	596.5	722.8	654.8	587.2	519.2	451.2	420.6	390.5
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: P367910
 CATALOG NUMBER: MSA-SA3B-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: P367910

CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1230.8	1256.6	1248.8	1241.5	1233.7	1226.0	1240.1	1254.1	1268.7	1282.8	1277.9
5°	1699.1	1703.9	1657.8	1612.1	1566.0	1519.8	1548.5	1577.1	1605.8	1634.5	1624.3
7.5°	2001.2	1976.9	1950.2	1923.5	1896.3	1869.6	1863.7	1857.9	1851.6	1845.8	1838.0
10°	2244.0	2261.0	2243.6	2226.6	2209.1	2191.6	2150.8	2110.0	2068.7	2027.9	2010.9
12.5°	2434.0	2452.9	2457.3	2461.2	2465.5	2469.9	2424.2	2379.1	2333.4	2287.8	2246.5
15°	2436.4	2452.4	2466.5	2480.1	2494.2	2507.8	2479.6	2451.9	2423.8	2395.6	2382.5
17.5°	2496.1	2499.0	2487.4	2476.2	2464.6	2453.4	2442.2	2431.5	2420.4	2409.7	2388.8
20°	2462.1	2468.9	2467.5	2466.0	2464.1	2462.6	2463.6	2464.1	2465.0	2465.5	2453.9
22.5°	2479.6	2449.0	2455.3	2461.2	2467.5	2473.3	2490.8	2508.3	2526.2	2543.7	2590.4
25°	2613.7	2547.1	2536.9	2527.2	2517.0	2507.3	2553.0	2598.1	2643.8	2689.5	2765.2
27.5°	2526.2	2420.8	2397.5	2374.2	2350.9	2327.6	2397.0	2466.0	2535.5	2604.9	2682.2
30°	2610.8	2503.4	2451.9	2400.4	2348.5	2297.0	2363.5	2429.6	2496.1	2562.2	2647.7
32.5°	2702.6	2629.7	2595.2	2561.2	2526.7	2492.7	2498.1	2503.4	2508.8	2514.1	2634.6
35°	2845.4	2735.1	2701.1	2667.1	2633.1	2599.1	2655.9	2712.3	2769.1	2825.5	2927.5
37.5°	3270.9	3210.1	3148.9	3087.7	3026.1	2964.9	2998.4	3031.9	3065.4	3098.9	3195.1
40°	3632.7	3530.2	3520.0	3510.3	3500.1	3489.9	3492.8	3495.3	3498.2	3501.1	3583.2
42.5°	4275.8	4191.3	4139.3	4087.4	4035.4	3983.4	3980.0	3976.6	3972.7	3969.3	4031.0
45°	4973.8	4911.2	4872.3	4833.4	4794.1	4755.2	4693.5	4631.9	4569.7	4508.0	4561.9
47.5°	5581.9	5585.3	5655.8	5725.7	5796.1	5866.6	5761.2	5655.8	5550.4	5445.0	5375.5
50°	6394.1	6537.8	6554.8	6571.4	6588.4	6605.4	6426.6	6248.3	6069.6	5890.9	5818.0
52.5°	6962.4	7164.4	7138.2	7112.5	7086.2	7060.0	6956.5	6853.6	6750.1	6646.6	6487.8
55°	7312.1	7537.0	7517.1	7497.6	7477.7	7457.8	7382.5	7307.2	7231.9	7156.7	6982.3
57.5°	7514.6	7728.4	7734.2	7740.0	7745.8	7751.7	7731.8	7711.8	7691.9	7672.0	7445.2
60°	7583.1	7814.8	7817.2	7819.2	7821.6	7823.6	7792.0	7760.4	7728.4	7696.8	7548.6
62.5°	7371.8	7578.7	7588.0	7596.7	7605.9	7615.2	7593.3	7571.5	7549.6	7527.7	7418.0
65°	7053.7	7183.4	7185.8	7187.7	7190.2	7192.6	7137.2	7082.3	7027.0	6971.6	6945.4
67.5°	6108.9	6117.7	6169.2	6220.7	6272.2	6323.6	6328.0	6332.4	6337.2	6341.6	6303.7
70°	4933.0	4882.5	4938.4	4994.2	5050.1	5105.9	5129.7	5153.5	5177.8	5201.6	5219.1
72.5°	3841.1	3757.1	3798.4	3839.6	3881.4	3922.7	3887.2	3851.8	3816.3	3780.9	3893.1
75°	2916.3	2812.8	2807.5	2802.6	2797.3	2792.4	2774.5	2756.5	2738.0	2720.1	2825.0
77.5°	2233.4	2166.3	2169.7	2172.6	2176.0	2179.0	2160.5	2142.5	2124.1	2105.6	2145.9
80°	1851.1	1869.1	1869.6	1870.0	1870.5	1871.0	1853.5	1836.5	1819.0	1801.5	1772.4
82.5°	1483.9	1532.0	1531.5	1531.5	1531.0	1530.5	1529.5	1528.6	1527.1	1526.1	1478.5
85°	1063.2	1095.3	1062.3	1029.2	996.2	963.2	987.5	1011.8	1036.5	1060.8	1040.9
87.5°	359.9	329.8	290.5	251.6	212.3	172.9	215.2	257.4	300.2	342.4	366.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367910
 CATALOG NUMBER: MSA-SA3B-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: P367910

CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1273.6	1268.7	1264.3	1233.7	1202.7	1172.1	1141.0	1197.3	1254.1	1310.5	1366.8
5°	1614.5	1604.3	1594.6	1592.2	1589.8	1586.9	1584.4	1613.1	1641.7	1669.9	1698.6
7.5°	1830.2	1822.4	1814.7	1794.3	1774.3	1753.9	1733.5	1751.0	1768.0	1785.5	1802.5
10°	1994.4	1977.4	1960.4	1916.2	1872.5	1828.3	1784.1	1770.9	1757.8	1744.7	1731.6
12.5°	2205.2	2163.4	2122.1	2072.1	2021.6	1971.6	1921.0	1914.2	1907.4	1901.1	1894.3
15°	2369.8	2356.7	2343.6	2303.8	2264.0	2224.1	2184.3	2130.9	2077.0	2023.5	1970.1
17.5°	2368.4	2347.5	2327.1	2380.5	2433.5	2486.9	2539.8	2483.0	2425.7	2368.9	2312.0
20°	2442.2	2430.1	2418.4	2517.0	2615.1	2713.7	2811.9	2780.8	2749.2	2718.1	2686.5
22.5°	2636.5	2683.1	2729.3	2813.8	2897.8	2982.3	3066.4	3101.8	3137.3	3172.7	3208.2
25°	2840.5	2916.3	2992.1	3117.9	3243.2	3369.0	3494.8	3520.0	3545.3	3570.6	3595.8
27.5°	2758.9	2836.1	2913.4	3008.6	3103.3	3198.5	3293.2	3404.0	3515.2	3625.9	3736.7
30°	2732.7	2818.2	2903.2	3033.8	3164.0	3294.7	3425.3	3577.8	3730.4	3882.4	4034.9
32.5°	2754.5	2875.0	2995.5	3172.3	3348.6	3525.4	3702.2	3862.5	4023.2	4183.5	4343.8
35°	3029.0	3131.0	3232.5	3430.2	3627.9	3825.6	4023.2	4211.2	4399.2	4586.7	4774.7
37.5°	3290.8	3387.0	3483.1	3685.2	3886.8	4088.8	4290.9	4587.7	4884.9	5181.7	5478.5
40°	3664.8	3746.9	3828.5	4001.4	4174.3	4347.2	4520.1	4878.1	5236.1	5594.1	5952.1
42.5°	4092.2	4153.9	4215.1	4394.3	4573.6	4752.8	4932.0	5321.6	5711.6	6101.2	6490.7
45°	4615.3	4669.3	4723.2	4846.6	4969.9	5093.8	5217.2	5618.9	6020.5	6422.2	6823.9
47.5°	5306.0	5236.6	5167.1	5227.8	5288.6	5349.3	5410.0	5807.3	6204.6	6601.5	6998.8
50°	5745.1	5672.3	5599.4	5604.8	5609.6	5615.0	5620.3	5990.9	6361.5	6731.6	7102.3
52.5°	6329.0	6169.7	6010.8	6009.4	6007.9	6006.0	6004.5	6327.5	6651.0	6974.0	7297.0
55°	6807.9	6633.5	6459.2	6425.2	6391.2	6356.7	6322.7	6642.3	6961.4	7281.0	7600.1
57.5°	7218.3	6991.0	6764.2	6710.8	6657.3	6603.9	6550.5	6894.8	7239.7	7584.1	7928.5
60°	7401.0	7252.8	7105.2	7039.6	6974.0	6908.4	6842.9	7136.3	7429.6	7722.5	8015.9
62.5°	7308.7	7198.9	7089.6	7104.7	7119.7	7134.8	7149.9	7317.4	7485.5	7653.1	7820.6
65°	6919.6	6893.4	6867.6	6989.1	7110.5	7231.9	7353.4	7355.8	7358.2	7360.7	7363.1
67.5°	6265.8	6227.9	6190.1	6442.6	6694.7	6947.3	7199.9	7079.9	6959.9	6840.4	6720.5
70°	5236.1	5253.6	5270.6	5614.5	5957.9	6301.8	6645.7	6471.8	6297.4	6123.5	5949.1
72.5°	4005.3	4118.0	4230.2	4586.7	4943.2	5299.7	5656.3	5457.6	5258.4	5059.8	4860.6
75°	2929.9	3034.8	3139.7	3491.9	3844.0	4196.7	4548.8	4312.7	4076.7	3841.1	3605.0
77.5°	2186.2	2227.0	2267.4	2560.2	2852.7	3145.5	3438.0	3200.9	2963.9	2727.3	2490.3
80°	1743.7	1714.6	1685.9	1848.2	2010.4	2172.6	2334.9	2166.8	1998.3	1830.2	1662.1
82.5°	1431.4	1383.8	1336.7	1396.9	1457.2	1517.9	1578.1	1443.6	1309.0	1174.5	1039.9
85°	1021.0	1001.1	981.2	998.6	1015.6	1033.1	1050.6	919.5	788.3	657.7	526.5
87.5°	390.5	414.8	439.1	466.8	494.0	521.7	548.9	429.9	310.9	192.3	73.3
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: P367910
 CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367910
 CATALOG NUMBER: MSA-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1055.5	1055.5
2.5°	1390.1	1413.5
5°	1698.1	1697.6
7.5°	1794.7	1786.5
10°	1710.2	1688.9
12.5°	1831.2	1767.5
15°	1907.0	1843.3
17.5°	2216.4	2120.2
20°	2572.4	2457.8
22.5°	3033.8	2859.5
25°	3387.4	3178.6
27.5°	3612.8	3488.5
30°	3892.6	3750.3
32.5°	4238.9	4133.5
35°	4678.5	4581.8
37.5°	5448.4	5417.8
40°	5915.6	5878.7
42.5°	6492.2	6493.2
45°	6845.8	6867.6
47.5°	7054.2	7109.1
50°	7220.3	7337.8
52.5°	7457.8	7618.6
55°	7813.8	8027.1
57.5°	8110.1	8291.8
60°	8110.1	8203.9
62.5°	7818.2	7815.3
65°	7317.9	7272.3
67.5°	6663.2	6605.8
70°	5859.8	5769.9
72.5°	4749.4	4637.7
75°	3452.0	3298.5
77.5°	2417.4	2344.1
80°	1697.6	1733.1
82.5°	1090.4	1141.0
85°	518.8	511.0
87.5°	61.2	49.1
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: P367910
CATALOG NUMBER: MSA-SA3B-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)