

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: P368218

Luminaire Tested: **MSA-SA4A-730-U-SLR**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368218
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-SA4A-730-U-SLR
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) 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: 12095 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

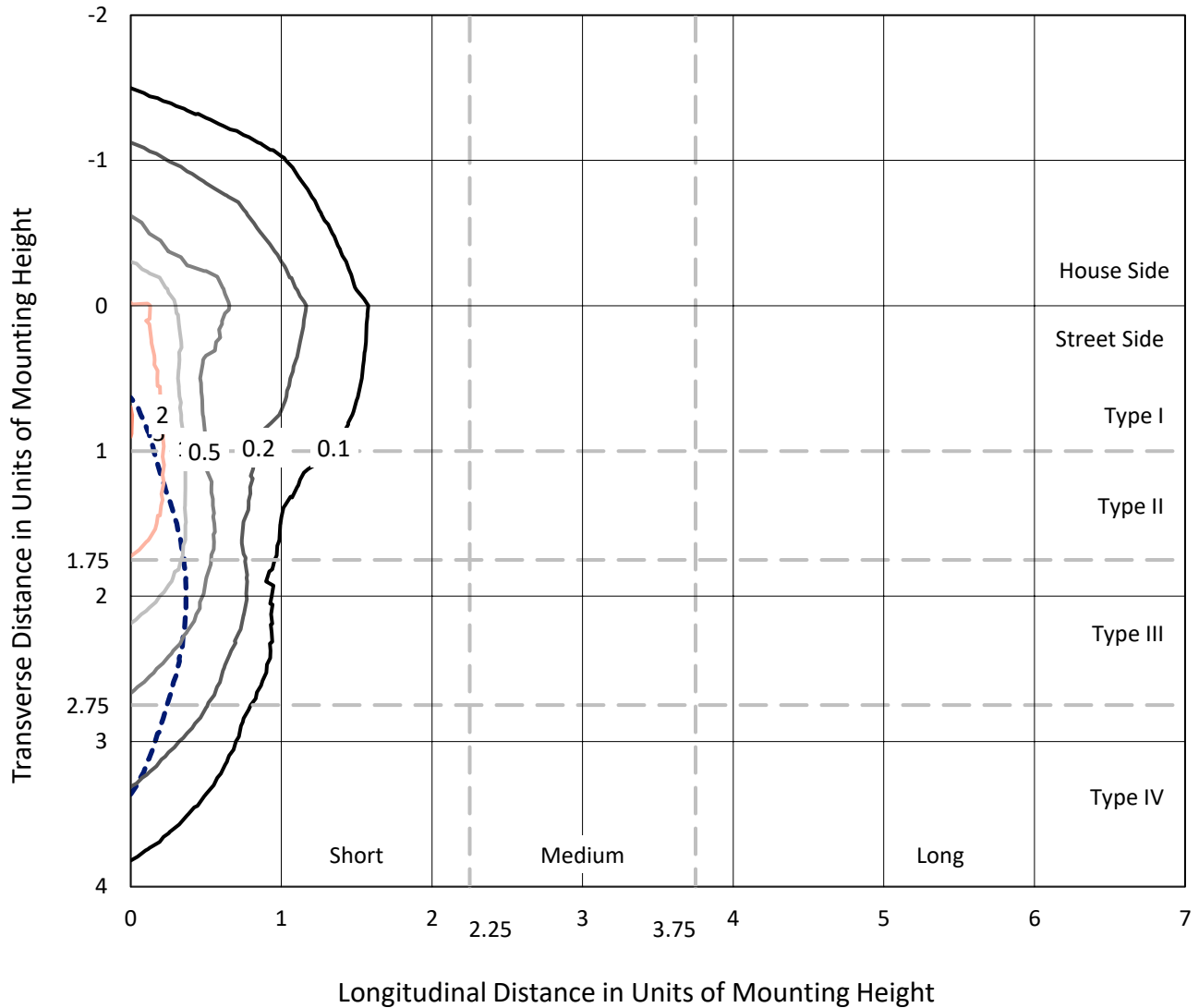
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

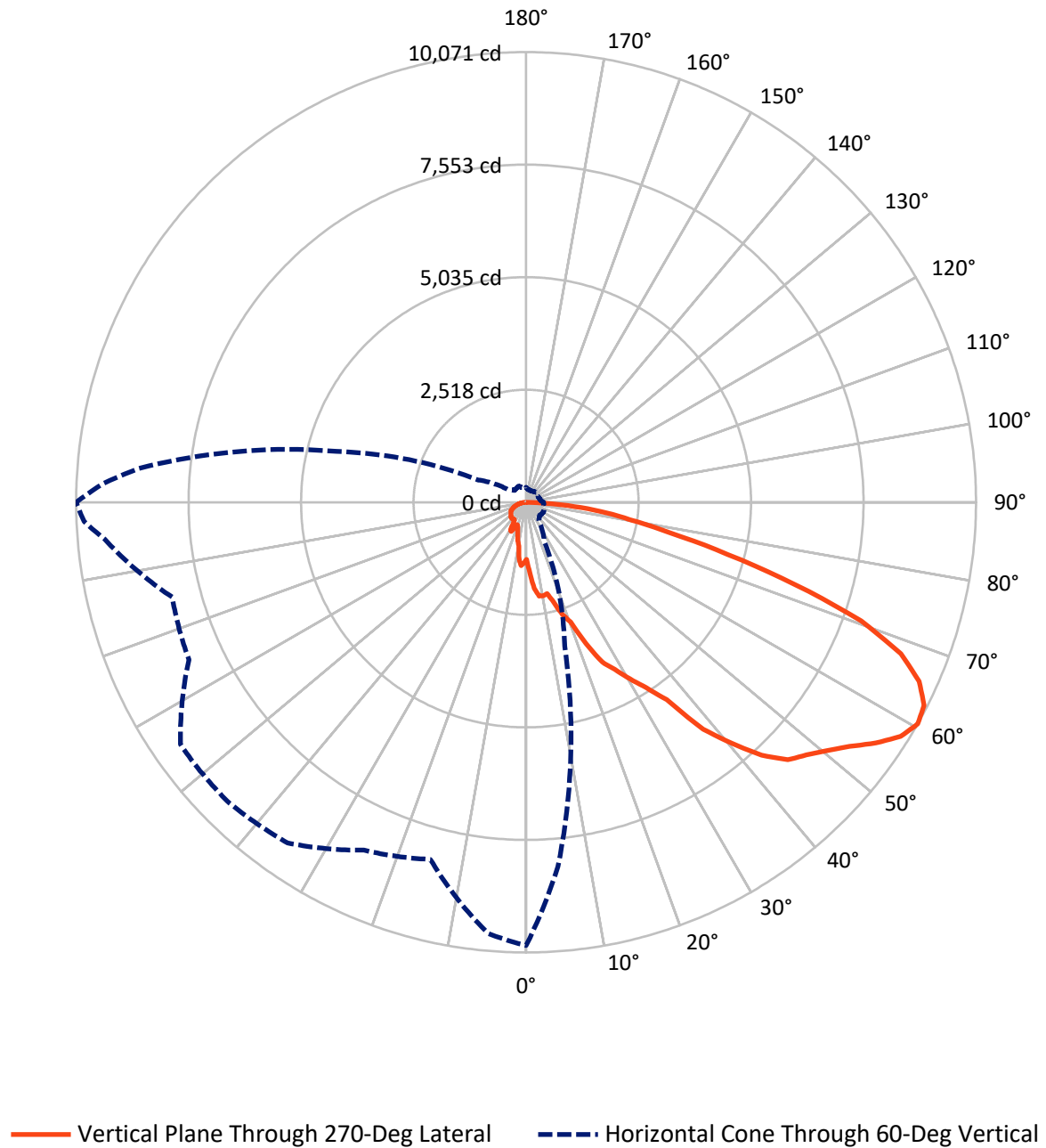
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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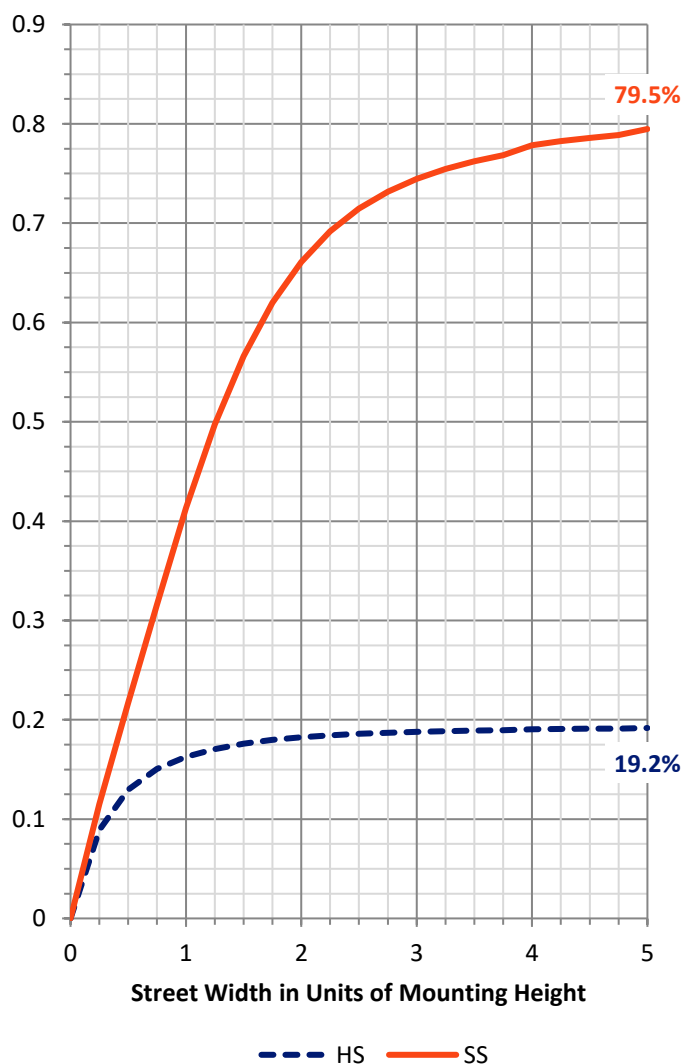
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2342.6	0.0	2342.6
	% Fixture	19.4	0.0	19.4
Street Side	Lumens	9752.5	0.0	9752.5
	% Fixture	80.6	0.0	80.6
Total	Lumens	12095.0	0.0	12095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	1.2
10°-20°	425.0	3.5
20°-30°	750.2	6.2
30°-40°	1168.4	9.7
40°-50°	1923.7	15.9
50°-60°	2745.7	22.7
60°-70°	2911.5	24.1
70°-80°	1608.1	13.3
80°-90°	416.1	3.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12095.0	100.0
0°-180°	12095.0	100.0

Coefficient of Utilization



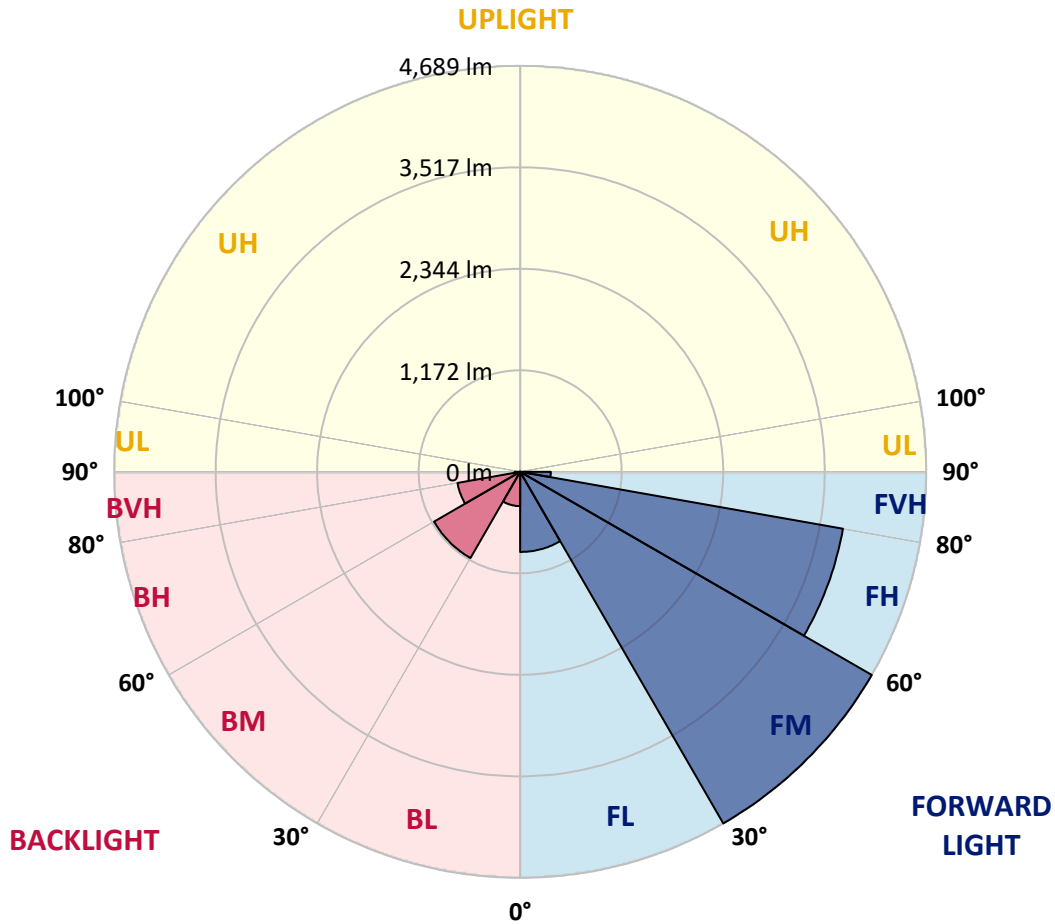
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.5	7.7			
FM (30°-60°)	4688.8	38.8			
FH (60°-80°)	3784.6	31.3			G2/5000
FVH (80°-90°)	353.6	2.9			G3/500
BL (0°-30°)	396.0	3.3	B1/500		
BM (30°-60°)	1149.1	9.5	B2/2500		
BH (60°-80°)	735.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	62.4	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°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1708.4	1718.9	1728.9	1709.0	1689.0	1668.5	1648.5	1618.6	1588.0	1558.1	1527.6
5°	2051.8	2013.1	1973.7	1957.9	1942.6	1926.8	1910.9	1896.2	1881.6	1866.3	1851.6
7.5°	2159.3	2104.1	2048.3	2024.8	2001.3	1977.3	1953.8	1900.9	1848.1	1794.7	1741.8
10°	2041.2	1983.7	1925.6	1902.7	1879.2	1856.3	1832.8	1768.3	1704.3	1639.7	1575.1
12.5°	2136.4	2077.6	2018.4	1945.6	1872.8	1799.4	1726.6	1690.8	1655.0	1618.6	1582.7
15°	2227.9	2148.7	2068.8	1996.0	1923.2	1849.9	1777.1	1705.4	1633.8	1562.2	1490.6
17.5°	2562.6	2430.5	2298.4	2166.9	2034.8	1903.3	1771.2	1688.4	1605.1	1522.3	1438.9
20°	2970.6	2786.8	2602.5	2402.9	2202.7	2003.1	1802.9	1698.4	1594.5	1490.0	1385.5
22.5°	3456.1	3224.2	2992.3	2740.5	2488.6	2236.2	1984.3	1832.8	1681.4	1529.3	1377.9
25°	3841.8	3618.7	3395.6	3076.3	2756.9	2437.5	2118.2	1946.1	1774.1	1601.5	1429.5
27.5°	4216.4	3861.2	3505.4	3139.7	2774.5	2408.8	2043.0	1883.9	1724.8	1565.7	1406.6
30°	4532.8	4251.0	3969.2	3491.9	3014.6	2536.7	2059.4	1864.0	1668.5	1473.0	1277.5
32.5°	4996.0	4593.8	4191.1	3693.3	3195.4	2697.6	2199.8	1949.7	1699.6	1449.5	1199.4
35°	5537.8	5119.9	4701.9	4086.0	3470.8	2854.9	2239.1	1974.3	1709.0	1444.2	1178.8
37.5°	6548.2	5811.4	5074.1	4401.9	3729.7	3056.9	2384.7	2077.1	1769.4	1461.2	1153.6
40°	7105.3	6424.3	5743.3	4905.6	4067.8	3229.5	2391.7	2077.1	1761.8	1447.1	1131.9
42.5°	7848.0	6986.7	6124.9	5219.1	4313.8	3408.0	2502.1	2153.4	1804.7	1455.4	1106.6
45°	8300.6	7340.7	6380.3	5412.2	4444.1	3476.1	2508.0	2154.0	1800.0	1446.0	1092.0
47.5°	8592.4	7670.7	6748.4	5706.3	4664.3	3621.6	2579.6	2203.9	1827.6	1451.8	1075.5
50°	8868.9	7956.0	7042.5	5960.5	4879.2	3797.2	2715.2	2304.8	1894.5	1483.5	1073.2
52.5°	9208.2	8367.5	7526.3	6365.6	5204.4	4043.8	2882.5	2435.8	1989.0	1542.2	1095.5
55°	9702.0	8873.6	8044.6	6798.9	5552.5	4306.8	3060.4	2564.3	2068.8	1572.8	1076.7
57.5°	10021.9	9181.8	8341.7	7071.3	5800.9	4529.8	3259.4	2709.9	2160.4	1610.3	1060.8
60°	9915.6	9049.1	8182.0	6970.9	5759.8	4548.6	3337.5	2744.0	2151.0	1557.5	964.0
62.5°	9446.0	8524.9	7603.8	6518.8	5434.5	4349.6	3264.7	2661.2	2058.3	1454.8	851.3
65°	8789.6	7837.4	6884.6	5905.9	4927.3	3948.6	2970.0	2422.3	1873.9	1326.2	777.9
67.5°	7984.2	6991.4	5998.1	5131.6	4265.1	3398.0	2531.5	2073.5	1616.2	1158.3	700.4
70°	6973.8	5998.1	5022.4	4272.7	3523.0	2773.3	2023.6	1679.0	1335.0	990.4	645.8
72.5°	5605.4	4763.5	3921.6	3331.6	2741.6	2151.6	1561.6	1322.1	1083.1	843.6	604.1
75°	3986.8	3491.9	2997.0	2537.9	2078.8	1619.1	1160.1	1005.1	850.1	695.1	540.1
77.5°	2833.2	2541.4	2249.7	1889.8	1529.9	1170.0	810.2	719.2	628.8	537.8	446.8
80°	2094.7	1851.0	1607.4	1336.2	1064.9	793.7	522.5	477.9	433.8	389.2	344.6
82.5°	1379.0	1269.2	1158.9	944.0	729.1	514.3	299.4	283.0	266.5	250.1	233.7
85°	617.6	652.2	686.3	554.8	422.7	291.2	159.1	151.5	143.8	136.2	128.6
87.5°	59.3	87.5	115.7	99.2	82.2	65.8	48.7	48.1	48.1	47.6	47.0
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):

	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°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1535.8	1544.0	1552.2	1560.4	1551.6	1542.8	1533.4	1524.6	1513.5	1502.3	1490.6
5°	1827.0	1801.7	1777.1	1751.8	1714.2	1676.7	1638.5	1600.9	1596.2	1591.0	1586.3
7.5°	1695.5	1649.7	1603.3	1556.9	1498.2	1440.1	1381.4	1322.7	1305.1	1287.4	1269.8
10°	1544.0	1512.3	1481.2	1449.5	1413.1	1376.7	1339.7	1303.3	1255.2	1206.4	1158.3
12.5°	1531.1	1479.4	1427.2	1375.5	1353.2	1330.9	1308.6	1286.3	1244.0	1201.7	1158.9
15°	1448.9	1406.6	1364.9	1322.7	1290.4	1258.1	1225.8	1193.5	1159.5	1124.8	1090.8
17.5°	1390.8	1342.6	1294.5	1246.4	1209.4	1172.4	1134.8	1097.8	1056.7	1015.0	974.0
20°	1330.3	1275.7	1220.5	1165.3	1118.4	1072.0	1025.0	978.1	932.9	888.2	843.0
22.5°	1305.6	1233.4	1161.2	1089.0	1039.7	989.8	940.5	890.6	848.9	807.2	765.5
25°	1343.2	1257.5	1171.2	1084.9	1018.6	951.6	885.3	818.4	783.7	749.1	713.9
27.5°	1299.2	1191.2	1083.7	975.7	904.7	833.1	762.0	690.4	685.1	679.8	674.0
30°	1164.2	1050.9	937.6	824.2	759.1	693.3	628.2	562.4	550.1	537.2	524.8
32.5°	1083.7	968.1	852.4	736.8	678.7	619.9	561.8	503.1	489.0	474.9	460.9
35°	1053.2	927.6	801.9	676.3	626.4	576.5	526.6	476.7	466.7	457.3	447.3
37.5°	1028.5	904.1	779.0	654.0	605.9	557.7	509.0	460.9	453.2	445.6	438.0
40°	1005.1	878.8	752.0	625.2	582.4	540.1	497.2	454.4	449.7	445.0	439.7
42.5°	983.9	861.2	737.9	615.3	577.1	539.5	501.4	463.2	458.5	453.8	449.1
45°	972.2	852.4	732.7	612.9	585.3	557.7	529.5	501.9	490.8	479.6	467.9
47.5°	963.4	851.3	739.1	627.0	598.2	569.5	540.7	511.9	501.9	492.0	481.4
50°	965.1	857.7	749.7	641.7	607.0	571.8	537.2	501.9	500.8	499.6	498.4
52.5°	981.0	867.1	752.6	638.1	600.6	563.0	524.8	487.3	494.9	501.9	509.6
55°	958.1	839.5	720.3	601.7	565.9	530.7	494.9	459.1	469.1	478.5	488.4
57.5°	932.3	803.7	675.1	546.6	519.6	492.6	465.0	438.0	448.5	459.7	470.2
60°	846.6	729.1	611.7	494.3	476.1	457.9	439.7	421.5	426.2	430.9	435.6
62.5°	752.6	653.4	554.8	455.6	441.5	426.8	412.7	398.0	398.0	398.6	398.6
65°	692.7	607.6	522.5	437.4	421.5	405.7	389.2	373.4	371.0	368.7	366.3
67.5°	632.9	565.9	498.4	430.9	408.0	385.7	362.8	339.9	337.0	334.6	331.7
70°	585.9	526.0	466.1	406.3	380.4	355.2	329.3	303.5	301.2	299.4	297.1
72.5°	547.7	492.0	435.6	379.2	352.2	324.7	297.6	270.1	268.3	266.5	264.2
75°	490.2	440.9	391.0	341.1	314.7	288.8	262.4	236.0	233.7	231.9	229.5
77.5°	405.7	364.0	322.9	281.2	260.7	240.7	220.2	199.6	198.4	197.3	195.5
80°	312.3	280.0	247.2	214.9	201.4	187.3	173.8	159.7	159.1	158.5	157.3
82.5°	214.3	194.9	175.5	156.2	146.2	135.6	125.6	115.1	115.7	116.2	116.8
85°	122.1	115.1	108.6	101.6	93.3	85.7	77.5	69.3	71.0	72.8	74.0
87.5°	44.6	42.3	39.9	37.6	33.5	29.9	25.8	21.7	22.9	24.7	25.8
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: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218
 CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1479.4	1461.8	1444.2	1426.6	1409.0	1372.6	1336.8	1300.4	1264.0	1286.3	1309.2
5°	1581.0	1551.0	1520.5	1490.6	1460.0	1443.0	1426.0	1409.0	1391.9	1400.8	1410.1
7.5°	1252.2	1234.6	1216.4	1198.8	1180.6	1173.0	1165.9	1158.3	1150.7	1172.4	1194.1
10°	1109.6	1084.9	1060.3	1035.0	1010.4	995.7	981.0	966.3	951.6	957.5	963.4
12.5°	1116.6	1080.2	1043.8	1007.4	971.0	949.3	927.6	905.9	884.1	889.4	894.7
15°	1056.1	1018.6	981.0	943.4	905.9	880.6	854.8	829.5	803.7	794.9	785.5
17.5°	932.3	891.2	850.1	809.0	767.9	750.9	733.8	716.8	699.8	690.4	681.0
20°	797.8	759.7	721.5	683.4	645.2	633.5	621.7	609.4	597.6	591.8	585.3
22.5°	723.9	700.4	676.3	652.8	628.8	615.3	602.3	588.8	575.3	568.9	561.8
25°	679.2	683.9	689.2	693.9	698.6	692.7	686.3	680.4	674.0	676.3	678.1
27.5°	668.7	678.7	689.2	699.2	709.2	714.5	719.8	725.0	730.3	732.1	733.8
30°	511.9	517.2	521.9	527.2	531.9	546.6	561.2	575.3	590.0	612.9	636.4
32.5°	446.8	445.0	443.2	440.9	439.1	442.7	446.2	449.1	452.6	460.9	469.7
35°	437.4	433.3	428.6	424.5	419.8	421.5	423.3	425.0	426.8	433.3	439.7
37.5°	430.3	428.6	427.4	425.6	423.9	428.0	431.5	435.6	439.1	444.4	449.7
40°	435.0	434.4	433.8	432.7	432.1	434.4	436.8	439.1	441.5	448.5	455.6
42.5°	444.4	444.4	443.8	443.8	443.2	445.6	447.3	449.7	451.5	455.6	459.7
45°	456.7	455.6	455.0	453.8	452.6	452.0	452.0	451.5	450.9	453.2	456.2
47.5°	471.4	467.3	462.6	458.5	453.8	452.6	450.9	449.7	447.9	449.1	450.3
50°	497.2	486.1	475.5	464.4	453.2	450.3	447.3	444.4	441.5	440.9	440.9
52.5°	516.6	500.2	483.7	467.3	450.9	445.6	440.3	435.0	429.7	428.6	428.0
55°	497.8	485.5	473.8	461.4	449.1	441.5	433.3	425.6	417.4	415.6	413.9
57.5°	480.8	473.2	465.5	457.9	450.3	442.7	434.4	426.8	418.6	414.5	410.4
60°	440.3	440.3	440.9	440.9	440.9	432.7	424.5	416.2	408.0	403.9	400.4
62.5°	398.6	405.1	411.0	417.4	423.3	412.1	400.4	389.2	377.5	374.6	372.2
65°	364.0	365.7	368.1	369.9	371.6	362.8	354.0	345.2	336.4	334.6	332.3
67.5°	328.8	328.2	327.6	326.4	325.8	320.5	314.7	309.4	303.5	301.2	298.8
70°	294.7	294.1	293.5	292.4	291.8	287.1	282.4	277.7	273.0	271.2	269.5
72.5°	262.4	261.8	260.7	260.1	258.9	254.8	251.3	247.2	243.0	240.7	238.4
75°	227.2	226.0	224.8	223.7	222.5	219.0	215.5	211.3	207.8	205.5	203.1
77.5°	194.3	192.6	190.8	188.5	186.7	183.8	180.2	177.3	173.8	170.8	168.5
80°	156.7	155.6	154.4	152.6	151.5	148.5	145.6	142.1	139.1	135.6	132.7
82.5°	117.4	116.8	115.7	115.1	113.9	111.0	108.0	105.1	102.2	98.6	95.1
85°	75.7	75.1	74.6	74.0	73.4	71.0	69.3	66.9	64.6	61.1	58.1
87.5°	27.0	25.8	25.2	24.1	22.9	22.3	21.1	20.5	19.4	17.6	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218

CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1331.5	1353.8	1354.4	1354.4	1364.9	1374.9	1354.4	1333.8	1312.7	1292.1	1271.6
5°	1419.0	1427.8	1425.4	1422.5	1409.6	1396.6	1383.1	1369.6	1356.1	1342.6	1343.2
7.5°	1215.8	1237.5	1255.2	1272.2	1255.7	1239.3	1230.5	1221.7	1212.9	1204.1	1202.9
10°	968.7	974.5	981.6	988.0	978.1	967.5	985.1	1002.7	1019.7	1037.4	1018.0
12.5°	900.0	905.3	892.9	880.0	875.9	871.8	867.7	863.0	858.9	854.2	851.8
15°	776.7	767.3	757.9	747.9	745.6	742.6	739.7	736.2	733.3	729.7	719.2
17.5°	671.6	662.2	646.4	629.9	623.5	616.4	614.7	612.9	610.6	608.8	598.8
20°	579.4	573.0	568.9	564.2	557.7	551.3	544.8	538.3	531.3	524.8	515.4
22.5°	555.4	548.3	543.0	537.2	536.0	534.8	523.1	510.8	499.0	486.7	481.4
25°	680.4	682.2	649.9	617.0	614.1	611.1	590.0	568.3	547.2	525.4	507.2
27.5°	735.0	736.8	735.6	734.4	725.0	715.1	679.2	642.8	607.0	570.6	544.8
30°	659.3	682.2	691.0	699.8	693.3	686.3	648.7	611.7	574.2	536.6	519.6
32.5°	477.9	486.1	500.8	514.9	522.5	529.5	517.8	506.1	494.3	482.6	479.6
35°	445.6	452.0	455.0	457.9	453.2	448.5	439.7	430.9	421.5	412.7	411.0
37.5°	454.4	459.7	465.5	471.4	458.5	445.0	435.0	425.6	415.6	405.7	397.4
40°	462.6	469.7	473.2	476.7	463.8	450.9	438.5	426.8	414.5	402.1	393.9
42.5°	463.8	467.9	474.4	480.8	462.6	443.8	432.7	420.9	409.8	398.0	389.8
45°	458.5	460.9	466.7	472.6	451.5	429.7	419.8	409.2	399.2	388.6	381.6
47.5°	450.9	452.0	456.7	460.9	438.5	415.6	406.3	396.9	386.9	377.5	370.4
50°	440.3	439.7	443.2	446.2	423.3	400.4	391.0	382.2	372.8	363.4	357.5
52.5°	426.8	425.6	429.1	432.1	408.0	383.9	375.7	368.1	359.9	351.7	347.0
55°	411.5	409.8	412.7	415.6	392.2	368.1	361.0	353.4	346.4	338.7	334.6
57.5°	405.7	401.6	403.3	405.1	378.7	352.2	345.2	338.2	331.1	324.1	321.1
60°	396.3	392.2	393.9	395.1	366.9	338.2	331.7	324.7	318.2	311.1	308.2
62.5°	369.3	366.3	368.7	371.0	345.8	320.0	314.1	308.8	302.9	297.1	292.9
65°	330.5	328.2	332.9	337.6	315.8	294.1	290.6	287.1	283.0	279.4	275.3
67.5°	296.5	294.1	298.8	303.5	287.7	271.8	268.3	264.8	261.2	257.7	255.4
70°	267.7	265.9	270.1	274.2	260.7	247.2	243.6	240.7	237.2	233.7	231.9
72.5°	235.4	233.1	238.4	243.0	231.9	220.2	217.2	213.7	210.8	207.2	206.1
75°	200.8	198.4	203.1	207.2	199.6	191.4	188.5	185.5	182.6	179.6	179.1
77.5°	165.6	162.6	167.3	171.4	166.7	161.4	159.1	156.2	153.8	150.9	150.9
80°	129.2	125.6	129.2	132.1	130.3	128.6	126.8	124.5	122.7	120.3	120.9
82.5°	91.6	88.1	89.8	91.6	92.8	93.9	93.9	93.9	93.9	93.9	93.9
85°	54.6	51.1	51.7	52.2	54.0	55.8	56.4	56.9	57.5	58.1	58.7
87.5°	14.1	12.3	11.2	9.4	11.2	12.3	13.5	14.1	15.3	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218

CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1251.1	1229.9	1209.4	1222.3	1234.6	1247.5	1259.9	1260.4	1260.4	1261.0	1261.0
5°	1344.4	1345.0	1345.6	1333.2	1321.5	1309.2	1296.8	1290.4	1283.9	1276.9	1270.4
7.5°	1201.1	1200.0	1198.2	1186.5	1174.7	1163.0	1151.2	1123.1	1094.3	1066.1	1037.4
10°	998.0	978.6	958.7	954.0	949.9	945.2	940.5	932.9	925.8	918.2	910.5
12.5°	849.5	847.1	844.8	832.5	820.1	807.2	794.9	794.9	794.9	794.9	794.9
15°	708.0	697.4	686.3	680.4	674.0	668.1	661.6	658.7	655.8	652.8	649.9
17.5°	588.2	578.3	567.7	566.5	565.4	564.2	563.0	560.1	557.1	554.2	551.3
20°	506.1	496.7	487.3	490.8	494.3	497.2	500.8	497.8	494.9	491.4	488.4
22.5°	475.5	470.2	464.4	461.4	458.5	455.0	452.0	452.0	452.6	452.6	452.6
25°	489.6	471.4	453.2	444.4	435.6	426.2	417.4	413.9	411.0	407.4	403.9
27.5°	519.0	492.6	466.7	451.5	436.2	420.9	405.7	399.2	392.2	385.7	378.7
30°	501.9	484.9	467.3	449.7	432.1	414.5	396.9	388.6	380.4	371.6	363.4
32.5°	476.7	473.2	470.2	453.8	437.4	420.3	403.9	400.4	397.4	393.9	390.4
35°	408.6	406.8	404.5	400.4	396.3	392.2	388.1	383.4	378.7	374.0	369.3
37.5°	389.8	381.6	373.4	371.6	369.9	368.1	366.3	364.6	362.8	360.5	358.7
40°	385.7	377.5	369.3	366.3	363.4	359.9	356.9	357.5	358.7	359.3	359.9
42.5°	381.0	372.8	364.0	361.6	359.3	356.9	354.6	355.2	356.4	356.9	357.5
45°	375.1	368.1	361.0	356.9	353.4	349.3	345.2	348.7	352.2	355.2	358.7
47.5°	363.4	355.8	348.7	346.4	344.0	341.1	338.7	342.3	345.8	348.7	352.2
50°	351.1	345.2	338.7	338.2	337.6	336.4	335.8	338.2	340.5	342.8	345.2
52.5°	341.7	337.0	331.7	331.7	331.1	331.1	330.5	332.9	335.2	337.0	339.3
55°	331.1	327.0	322.9	323.5	324.7	325.2	325.8	328.2	331.1	333.5	335.8
57.5°	317.6	314.7	311.1	313.5	315.3	317.6	319.4	321.1	323.5	325.2	327.0
60°	304.7	301.8	298.2	300.6	303.5	305.9	308.2	310.0	311.7	313.5	315.3
62.5°	288.8	284.1	280.0	283.6	286.5	290.0	292.9	294.1	295.9	297.1	298.2
65°	271.8	267.7	263.6	265.9	268.3	270.1	272.4	274.2	275.9	277.7	279.4
67.5°	252.4	250.1	247.2	248.9	250.7	252.4	254.2	254.8	254.8	255.4	255.4
70°	229.5	227.8	225.4	226.6	228.4	229.5	230.7	230.7	230.7	230.1	230.1
72.5°	205.5	204.3	203.1	203.7	204.9	205.5	206.1	205.5	204.9	204.3	203.7
75°	178.5	177.9	177.3	177.9	179.1	179.6	180.2	179.6	178.5	177.9	176.7
77.5°	151.5	151.5	151.5	151.5	152.1	152.1	152.1	150.9	149.7	148.5	147.4
80°	121.5	122.1	122.7	122.7	122.7	122.7	122.7	121.5	120.3	118.6	117.4
82.5°	93.9	93.9	93.9	93.9	94.5	94.5	94.5	91.6	89.2	86.3	83.4
85°	58.7	59.3	59.3	59.9	60.5	60.5	61.1	56.9	53.4	49.3	45.2
87.5°	15.9	15.9	15.9	15.9	15.9	15.3	15.3	11.7	7.6	4.1	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: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218

CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1264.6	1268.1	1271.0	1274.5	1275.1	1275.7	1275.7	1276.3	1264.0	1251.6	1238.7
5°	1279.2	1287.4	1296.3	1304.5	1302.7	1301.0	1299.2	1297.4	1293.9	1291.0	1287.4
7.5°	1030.9	1025.0	1018.6	1012.1	1017.4	1022.7	1028.0	1033.2	1035.6	1037.9	1039.7
10°	895.9	881.2	866.5	851.8	843.6	834.8	826.6	817.8	816.6	816.0	814.9
12.5°	779.6	763.8	748.5	732.7	728.0	722.7	718.0	712.7	717.4	722.1	726.2
15°	643.4	637.6	631.1	624.6	629.9	635.2	640.5	645.8	650.5	654.6	659.3
17.5°	548.3	546.0	543.0	540.1	544.8	550.1	554.8	559.5	570.0	580.6	591.2
20°	486.1	484.3	482.0	479.6	477.9	475.5	473.8	471.4	486.7	501.4	516.6
22.5°	449.1	445.6	442.1	438.5	439.1	439.7	439.7	440.3	452.6	465.5	477.9
25°	402.7	401.6	400.4	399.2	402.7	406.3	409.2	412.7	423.9	435.0	445.6
27.5°	379.2	379.8	380.4	381.0	385.7	391.0	395.7	400.4	408.0	415.6	423.3
30°	366.3	369.9	372.8	375.7	377.5	379.2	381.0	382.8	390.4	397.4	405.1
32.5°	385.7	381.0	375.7	371.0	373.4	376.3	378.7	381.0	388.1	395.1	402.1
35°	367.5	365.2	363.4	361.0	364.0	366.9	369.3	372.2	378.7	384.5	391.0
37.5°	358.1	357.5	356.9	356.4	358.1	359.9	361.0	362.8	368.7	374.6	379.8
40°	357.5	354.6	352.2	349.3	351.1	352.8	354.0	355.8	362.8	369.9	376.9
42.5°	354.0	350.5	346.4	342.8	344.6	347.0	348.7	350.5	358.1	365.2	372.8
45°	353.4	348.1	342.3	337.0	339.3	341.7	344.0	346.4	352.2	358.1	363.4
47.5°	347.0	341.7	336.4	331.1	332.3	333.5	334.0	335.2	340.5	345.2	350.5
50°	341.7	337.6	334.0	329.9	328.2	327.0	325.2	323.5	327.6	331.7	335.8
52.5°	335.2	331.1	326.4	322.3	320.0	317.6	315.3	312.9	316.4	319.4	322.9
55°	331.1	325.8	321.1	315.8	312.9	310.0	307.0	304.1	306.5	308.2	310.6
57.5°	322.3	317.6	312.3	307.6	304.1	300.6	296.5	292.9	294.1	295.3	296.5
60°	310.6	305.3	300.6	295.3	291.2	287.1	282.4	278.3	278.9	280.0	280.6
62.5°	293.5	288.8	283.6	278.9	274.2	270.1	265.4	260.7	261.8	262.4	263.6
65°	274.7	269.5	264.8	259.5	255.4	251.3	246.6	242.5	243.6	244.8	245.4
67.5°	251.9	247.7	244.2	240.1	236.6	232.5	229.0	224.8	225.4	226.0	226.6
70°	227.2	223.7	220.7	217.2	214.3	211.3	208.4	205.5	205.5	206.1	206.1
72.5°	200.8	197.8	194.9	192.0	189.0	186.7	183.8	180.8	182.0	183.2	183.8
75°	173.8	171.4	168.5	165.6	163.2	160.9	157.9	155.6	156.7	157.9	158.5
77.5°	145.6	143.8	141.5	139.7	137.4	135.0	132.1	129.7	130.9	132.1	132.7
80°	116.2	115.1	113.3	112.1	109.8	107.4	105.1	102.7	103.3	103.3	103.9
82.5°	84.0	84.5	84.5	85.1	83.4	81.0	79.3	76.9	76.9	76.9	76.3
85°	47.0	49.3	51.1	52.8	51.1	49.3	47.6	45.8	45.2	45.2	44.6
87.5°	1.8	2.9	4.7	5.9	5.3	4.7	3.5	2.9	3.5	4.1	4.1
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: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218

CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1226.4	1236.4	1246.4	1256.3	1266.3	1281.6	1296.8	1312.7	1328.5	1319.7	1310.3
5°	1283.9	1289.8	1296.3	1302.1	1308.0	1325.0	1341.5	1362.0	1382.0	1379.6	1376.7
7.5°	1042.1	1050.3	1058.5	1066.1	1074.3	1100.2	1126.0	1147.7	1169.4	1166.5	1163.0
10°	813.7	830.7	848.3	865.3	882.4	903.5	924.1	942.3	960.4	991.0	1020.9
12.5°	730.9	757.3	783.7	810.2	836.6	851.8	866.5	890.0	913.5	929.9	946.9
15°	663.4	688.0	712.7	737.4	762.0	763.2	764.4	789.0	813.7	827.8	841.3
17.5°	601.7	615.3	628.8	641.7	655.2	650.5	645.8	657.5	668.7	674.5	681.0
20°	531.3	540.7	550.1	559.5	568.9	575.3	581.2	588.2	594.7	588.8	582.4
22.5°	490.2	504.3	519.0	533.1	547.2	551.3	554.8	550.7	546.6	544.8	543.0
25°	456.7	473.8	491.4	508.4	525.4	533.6	541.9	545.4	548.3	541.9	535.4
27.5°	430.9	451.5	471.4	492.0	511.9	526.6	541.3	545.4	548.9	544.2	538.9
30°	412.1	434.4	456.7	479.1	501.4	523.7	545.4	564.8	583.5	581.8	580.0
32.5°	409.2	424.5	439.7	455.0	470.2	484.3	497.8	499.0	499.6	494.9	489.6
35°	396.9	406.8	416.8	426.8	436.8	445.6	453.8	452.6	451.5	446.8	442.1
37.5°	385.7	395.7	406.3	416.2	426.2	441.5	456.2	453.2	449.7	445.0	440.3
40°	383.9	395.1	406.3	416.8	428.0	442.1	456.2	453.2	450.3	444.4	438.5
42.5°	379.8	391.0	401.6	412.7	423.3	440.3	456.7	451.5	445.6	440.9	436.2
45°	369.3	379.2	389.2	399.2	409.2	427.4	445.6	439.1	432.7	430.9	428.6
47.5°	355.2	365.2	375.1	385.1	395.1	413.3	430.9	425.6	419.8	419.2	418.0
50°	339.9	349.3	359.3	368.7	378.1	396.3	413.9	409.2	404.5	405.1	405.1
52.5°	325.8	334.6	342.8	351.7	359.9	378.1	395.7	392.2	388.1	389.2	389.8
55°	312.3	319.4	326.4	333.5	340.5	358.1	375.7	370.4	365.2	366.9	368.7
57.5°	297.6	303.5	309.4	314.7	320.5	338.2	355.2	349.3	342.8	345.8	348.1
60°	281.2	286.5	291.8	296.5	301.8	317.6	332.9	327.6	321.7	325.8	329.3
62.5°	264.2	268.3	272.4	276.5	280.6	295.3	310.0	305.9	301.8	306.5	310.6
65°	246.6	249.5	253.0	256.0	258.9	273.0	286.5	283.6	280.6	284.7	288.8
67.5°	227.2	229.5	232.5	234.8	237.2	250.1	263.0	260.1	256.6	260.1	263.0
70°	206.1	208.4	210.2	212.5	214.3	226.0	237.8	233.7	229.0	232.5	235.4
72.5°	184.9	186.1	187.9	189.0	190.2	199.0	207.8	204.3	200.8	204.3	207.2
75°	159.7	160.9	162.0	163.2	164.4	172.0	179.1	174.9	170.3	173.8	177.3
77.5°	133.9	134.4	135.6	136.2	136.8	142.1	146.8	142.7	138.0	142.1	146.2
80°	103.9	104.5	105.1	105.1	105.7	107.4	109.2	106.3	102.7	108.0	113.3
82.5°	76.3	75.7	75.7	75.1	74.6	74.6	74.0	72.2	69.9	74.6	79.3
85°	44.0	43.4	42.3	41.7	40.5	38.7	37.0	36.4	35.8	39.9	44.0
87.5°	4.7	4.1	2.9	2.3	1.2	0.6	0.0	0.0	0.0	2.3	5.3
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: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218

CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1301.5	1292.1	1283.3	1274.5	1265.7	1256.9	1273.4	1289.8	1306.2	1322.7	1337.3
5°	1374.3	1371.4	1363.8	1356.7	1349.1	1341.5	1345.6	1350.3	1354.4	1358.5	1367.3
7.5°	1160.1	1156.5	1173.0	1188.8	1205.3	1221.1	1225.2	1228.7	1232.9	1236.4	1234.0
10°	1051.4	1081.4	1089.0	1096.1	1103.7	1110.7	1122.5	1134.2	1145.4	1157.1	1163.6
12.5°	963.4	979.8	1006.8	1034.4	1061.4	1088.4	1106.0	1123.7	1141.3	1158.9	1195.3
15°	855.4	868.9	889.4	910.0	930.5	951.1	976.3	1002.1	1027.4	1052.6	1092.5
17.5°	686.9	692.7	708.0	723.3	737.9	753.2	787.3	820.7	854.8	888.2	934.0
20°	576.5	570.0	570.0	570.6	570.6	570.6	604.7	638.1	672.2	705.7	766.1
22.5°	540.7	538.9	532.5	525.4	519.0	511.9	529.5	547.7	565.4	583.0	632.3
25°	528.4	521.9	513.7	505.5	497.2	489.0	500.2	511.3	522.5	533.6	572.4
27.5°	534.2	529.0	533.1	536.6	540.7	544.2	547.7	551.3	554.8	558.3	571.8
30°	578.3	576.5	583.0	588.8	595.3	601.2	592.9	585.3	577.1	568.9	573.6
32.5°	484.9	479.6	477.3	474.9	472.6	470.2	469.7	469.1	467.9	467.3	477.9
35°	437.4	432.7	429.1	425.6	421.5	418.0	419.8	420.9	422.7	423.9	435.6
37.5°	435.6	430.9	426.8	422.7	418.0	413.9	415.6	418.0	419.8	421.5	430.3
40°	432.7	426.8	424.5	422.1	419.8	417.4	418.6	419.8	420.3	421.5	428.0
42.5°	430.9	426.2	425.0	423.9	422.7	421.5	422.7	423.9	424.5	425.6	433.3
45°	426.8	424.5	425.6	426.8	428.0	429.1	429.1	429.1	429.1	429.1	437.4
47.5°	417.4	416.2	419.8	423.3	426.8	430.3	436.2	442.1	447.3	453.2	455.0
50°	405.7	405.7	411.5	417.4	422.7	428.6	442.7	456.2	470.2	483.7	474.9
52.5°	391.0	391.6	400.4	408.6	417.4	425.6	438.5	451.5	463.8	476.7	463.8
55°	369.9	371.6	382.8	393.3	404.5	415.1	425.0	435.0	445.0	455.0	441.5
57.5°	351.1	353.4	365.2	376.3	388.1	399.2	405.1	411.5	417.4	423.3	414.5
60°	333.5	337.0	352.2	367.5	382.2	397.4	392.8	388.1	382.8	378.1	377.5
62.5°	315.3	319.4	333.5	347.5	361.0	375.1	368.1	361.0	353.4	346.4	349.3
65°	292.4	296.5	302.9	309.4	315.3	321.7	321.1	321.1	320.5	320.0	325.8
67.5°	266.5	269.5	273.6	277.1	281.2	284.7	287.1	290.0	292.4	294.7	301.8
70°	238.9	241.9	246.0	249.5	253.6	257.1	260.1	263.0	265.4	268.3	275.3
72.5°	210.8	213.7	217.8	221.9	225.4	229.5	231.9	234.2	236.0	238.4	244.2
75°	180.8	184.3	188.5	192.0	196.1	199.6	201.4	203.1	204.9	206.6	211.9
77.5°	150.3	154.4	158.5	162.6	166.7	170.8	171.4	172.0	172.6	173.2	177.9
80°	118.0	123.3	127.4	131.5	135.6	139.7	139.7	139.7	139.7	139.7	142.1
82.5°	84.0	88.6	93.3	97.5	102.2	106.3	106.3	105.7	105.7	105.1	105.1
85°	48.1	52.2	55.2	58.7	61.6	64.6	64.6	64.6	64.0	64.0	62.8
87.5°	7.6	10.0	11.2	12.9	14.1	15.3	14.7	14.7	14.1	13.5	11.7
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: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218

CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1352.0	1366.7	1381.4	1379.0	1376.7	1374.3	1372.0	1380.8	1389.0	1397.8	1406.0
5°	1375.5	1384.3	1392.5	1399.0	1405.5	1411.9	1418.4	1448.3	1477.7	1507.6	1537.0
7.5°	1231.7	1228.7	1226.4	1254.0	1282.2	1309.8	1337.3	1375.5	1413.7	1451.8	1490.0
10°	1170.0	1176.5	1182.9	1194.1	1205.8	1217.0	1228.2	1265.7	1303.3	1340.9	1378.4
12.5°	1231.1	1267.5	1303.3	1312.1	1321.5	1330.3	1339.1	1346.7	1354.4	1361.4	1369.1
15°	1132.5	1172.4	1212.3	1235.2	1258.1	1280.4	1303.3	1360.8	1417.8	1475.3	1532.3
17.5°	979.2	1025.0	1070.2	1126.6	1182.9	1239.3	1295.7	1348.5	1401.3	1453.6	1506.4
20°	826.6	886.5	946.9	1008.6	1069.6	1131.3	1192.3	1244.0	1295.7	1346.7	1398.4
22.5°	681.0	730.3	779.0	854.2	928.7	1003.9	1078.5	1174.7	1270.4	1366.7	1462.4
25°	610.6	649.3	687.5	765.0	842.4	919.4	996.8	1121.9	1246.4	1371.4	1495.9
27.5°	585.9	599.4	612.9	683.4	753.2	823.7	893.5	1028.5	1163.6	1298.0	1433.0
30°	578.3	583.0	587.7	642.8	698.0	753.2	808.4	941.7	1075.5	1208.8	1342.0
32.5°	487.9	498.4	508.4	562.4	615.8	669.8	723.3	857.7	991.6	1126.0	1259.9
35°	447.3	459.1	470.8	523.7	576.5	628.8	681.6	823.1	965.1	1106.6	1248.1
37.5°	439.1	447.9	456.7	516.6	576.5	636.4	696.3	839.5	982.8	1126.0	1269.2
40°	435.0	441.5	447.9	506.1	564.8	622.9	681.0	831.3	981.0	1131.3	1281.0
42.5°	440.3	447.9	455.0	507.8	560.1	612.9	665.2	820.7	975.7	1131.3	1286.3
45°	445.0	453.2	460.9	510.2	559.5	608.8	658.1	824.2	989.8	1155.9	1321.5
47.5°	456.2	457.9	459.1	501.9	544.2	587.1	629.3	798.4	967.5	1136.0	1305.1
50°	465.5	456.7	447.3	492.0	536.0	580.6	624.6	784.9	945.2	1104.9	1265.1
52.5°	450.9	437.4	424.5	472.6	520.7	568.3	616.4	776.7	937.6	1097.8	1258.1
55°	428.6	415.1	401.6	450.3	499.0	547.7	596.5	756.1	916.4	1076.1	1235.8
57.5°	406.3	397.4	388.6	428.6	469.1	509.0	548.9	722.1	894.7	1067.9	1240.5
60°	376.9	375.7	375.1	406.3	438.0	469.1	500.2	669.8	838.9	1008.6	1177.7
62.5°	351.7	354.6	356.9	382.2	407.4	432.1	457.3	621.1	785.5	949.3	1113.1
65°	332.3	338.2	344.0	372.8	401.6	429.7	458.5	595.9	733.3	870.6	1008.0
67.5°	308.8	315.8	322.9	360.5	398.0	435.6	473.2	586.5	699.8	813.1	926.4
70°	281.8	288.8	295.3	343.4	391.0	439.1	486.7	587.1	688.0	788.4	888.8
72.5°	250.1	256.0	261.8	313.5	365.2	416.8	468.5	553.6	638.7	723.3	808.4
75°	217.8	223.1	228.4	273.0	317.6	362.2	406.8	472.6	537.8	603.5	668.7
77.5°	182.0	186.7	190.8	220.7	250.7	280.6	310.6	361.0	411.0	461.4	511.3
80°	144.4	146.8	149.1	166.7	183.8	201.4	218.4	251.9	285.3	318.2	351.7
82.5°	105.7	105.7	105.7	116.8	128.6	139.7	150.9	167.9	184.3	201.4	217.8
85°	61.6	59.9	58.7	66.3	74.0	81.6	89.2	96.3	103.3	110.4	117.4
87.5°	10.0	7.6	5.9	10.6	15.3	20.0	24.7	27.0	29.9	32.3	34.6
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: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218

CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1386.1	1366.7	1346.7	1326.8	1356.1	1385.5	1414.8	1444.2	1522.3	1568.7	1571.6
5°	1561.6	1586.3	1610.9	1635.6	1660.2	1684.9	1709.0	1733.6	1860.4	1938.5	1953.2
7.5°	1530.5	1571.6	1612.1	1652.6	1722.5	1792.3	1862.2	1932.1	2039.5	2117.0	2168.1
10°	1428.9	1479.4	1529.9	1580.4	1663.2	1746.5	1829.3	1912.1	2026.0	2128.1	2176.9
12.5°	1449.5	1529.9	1609.8	1690.2	1761.8	1834.0	1905.6	1977.3	2055.9	2094.7	2183.3
15°	1588.0	1643.8	1699.6	1755.3	1863.4	1970.8	2078.8	2186.3	2230.9	2319.5	2399.4
17.5°	1609.2	1711.3	1814.1	1916.2	2048.3	2180.4	2312.5	2444.6	2527.3	2641.8	2738.1
20°	1543.4	1687.8	1832.8	1977.3	2147.5	2318.3	2488.6	2658.8	2763.9	2860.2	3009.3
22.5°	1622.1	1781.8	1940.9	2100.5	2326.6	2552.0	2778.0	3003.5	3223.0	3437.9	3538.9
25°	1709.0	1922.7	2135.8	2348.9	2631.3	2913.1	3195.4	3477.2	3759.6	3961.0	4077.2
27.5°	1647.9	1862.2	2077.1	2291.3	2640.6	2990.5	3339.9	3689.2	3991.5	4234.0	4333.8
30°	1605.1	1868.1	2131.1	2394.1	2803.9	3213.6	3623.4	4033.2	4312.6	4583.3	4730.0
32.5°	1597.4	1935.0	2272.0	2609.5	3086.8	3563.5	4040.8	4517.5	4703.0	4943.1	5141.0
35°	1618.6	1989.6	2360.0	2730.5	3277.6	3824.8	4371.3	4918.5	5182.1	5419.8	5593.0
37.5°	1683.1	2097.0	2510.3	2924.2	3583.5	4243.4	4902.6	5561.9	6004.0	6439.0	6516.5
40°	1719.5	2158.7	2597.2	3035.7	3802.5	4569.2	5335.9	6102.6	6611.0	7088.3	7120.6
42.5°	1762.4	2238.5	2714.0	3190.1	4040.2	4890.9	5741.0	6591.1	7220.4	7733.5	7748.8
45°	1811.7	2301.3	2791.5	3281.1	4168.8	5055.9	5943.5	6830.6	7591.4	8214.9	8062.8
47.5°	1831.1	2357.7	2883.7	3409.7	4356.1	5301.8	6248.2	7194.0	7876.7	8443.9	8298.3
50°	1838.7	2412.9	2986.4	3560.0	4540.4	5521.4	6501.8	7482.2	8176.7	8729.8	8506.7
52.5°	1886.3	2514.4	3142.6	3770.8	4792.3	5813.8	6835.3	7856.8	8540.1	9071.4	8794.3
55°	1950.3	2664.7	3378.6	4093.1	5150.4	6207.1	7264.4	8321.2	9006.9	9501.2	9157.7
57.5°	2009.5	2779.2	3548.3	4317.3	5412.8	6508.9	7604.3	8699.8	9394.3	9883.4	9550.5
60°	1980.8	2783.9	3587.0	4390.1	5466.8	6542.9	7619.6	8695.7	9484.1	10070.6	9900.4
62.5°	1893.9	2674.7	3454.9	4235.7	5257.8	6279.3	7301.4	8322.9	9245.8	9997.8	9990.2
65°	1726.6	2445.2	3163.1	3881.7	4827.5	5773.9	6719.6	7665.4	8753.2	9666.7	9726.0
67.5°	1522.9	2119.3	2715.8	3312.3	4202.8	5093.4	5984.0	6874.6	8037.6	9045.6	9096.7
70°	1325.6	1763.0	2199.8	2636.5	3418.5	4200.5	4981.9	5763.9	6938.6	7958.3	8005.3
72.5°	1094.3	1380.2	1665.5	1951.4	2584.9	3218.3	3851.2	4484.6	5516.1	6300.5	6565.2
75°	838.3	1008.0	1177.7	1347.3	1859.8	2372.4	2884.3	3396.8	4082.5	4661.4	4959.6
77.5°	599.4	687.5	775.5	863.6	1299.2	1734.8	2169.8	2605.4	2965.9	3294.1	3495.4
80°	393.3	434.4	476.1	517.2	879.4	1241.7	1603.3	1965.5	2185.1	2361.2	2462.8
82.5°	238.4	258.9	278.9	299.4	592.9	886.5	1179.4	1473.0	1598.6	1682.5	1773.0
85°	128.6	139.7	150.9	162.0	350.5	538.3	726.8	914.7	927.0	937.0	1071.4
87.5°	37.6	41.1	44.0	47.0	77.5	108.6	139.1	169.7	105.7	65.8	135.0
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: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218

CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1554.6	1546.9	1539.3	1531.1	1523.5	1491.2	1459.5	1427.2	1394.9	1426.0	1456.5
5°	1936.2	1959.6	1982.5	2006.0	2029.5	2031.3	2032.4	2034.2	2035.4	2041.2	2047.1
7.5°	2210.9	2252.6	2293.7	2335.4	2377.1	2409.3	2441.6	2474.5	2506.8	2477.4	2448.1
10°	2234.4	2322.5	2410.5	2498.6	2586.6	2602.5	2617.8	2633.6	2649.5	2670.6	2691.1
12.5°	2257.9	2365.3	2472.2	2579.6	2687.0	2734.0	2780.4	2827.3	2873.7	2896.6	2918.9
15°	2506.2	2569.6	2632.4	2695.8	2758.7	2790.9	2822.6	2854.9	2887.2	2906.6	2925.4
17.5°	2825.6	2849.1	2872.0	2895.4	2918.9	2940.6	2962.4	2984.1	3005.8	3009.3	3012.9
20°	3116.8	3121.5	3125.6	3130.3	3134.4	3088.6	3043.4	2997.6	2951.8	2960.0	2967.6
22.5°	3553.5	3527.7	3502.5	3476.6	3451.4	3365.1	3279.4	3193.1	3107.4	3070.4	3034.0
25°	4211.1	4145.3	4079.6	4013.8	3948.1	3810.7	3673.9	3536.5	3399.7	3319.3	3239.5
27.5°	4423.0	4279.8	4137.1	3993.9	3850.6	3746.7	3643.4	3539.5	3436.1	3308.7	3181.3
30°	4851.6	4625.5	4400.1	4174.1	3948.1	3847.7	3747.3	3646.3	3545.9	3415.6	3285.8
32.5°	5231.4	4996.6	4761.7	4526.3	4291.5	4101.3	3911.1	3720.9	3530.7	3442.6	3354.5
35°	5671.1	5375.8	5080.5	4785.2	4489.9	4326.7	4164.1	4000.9	3838.3	3705.0	3572.3
37.5°	6311.6	5997.5	5683.4	5368.8	5054.7	4833.9	4613.8	4393.1	4172.9	4099.5	4026.7
40°	6922.2	6551.1	6180.7	5809.7	5439.2	5270.1	5101.1	4931.4	4762.3	4638.5	4514.6
42.5°	7433.5	7066.6	6700.3	6333.3	5967.0	5843.7	5721.0	5597.7	5475.0	5372.9	5270.7
45°	7609.0	7309.6	7010.8	6711.4	6412.0	6368.6	6325.7	6282.3	6239.4	6163.7	6087.9
47.5°	7891.4	7586.1	7281.5	6976.2	6670.9	6686.7	6702.6	6719.0	6734.9	6739.0	6742.5
50°	8057.6	7767.5	7478.1	7188.1	6898.7	6975.6	7051.9	7128.8	7205.7	7380.1	7553.9
52.5°	8300.0	8015.3	7731.1	7446.4	7161.7	7292.0	7421.8	7552.1	7681.8	7926.1	8170.3
55°	8604.1	8331.7	8059.9	7787.5	7515.7	7642.5	7768.7	7895.5	8021.8	8293.6	8565.4
57.5°	9007.4	8715.7	8424.5	8132.7	7841.5	7958.3	8074.6	8191.4	8307.7	8566.0	8824.3
60°	9466.5	9149.5	8832.5	8514.9	8197.9	8230.2	8261.9	8294.2	8325.9	8605.9	8885.3
62.5°	9692.0	9398.4	9105.5	8811.9	8518.4	8428.6	8338.8	8248.4	8158.5	8409.2	8659.3
65°	9496.5	9294.5	9093.2	8891.2	8689.3	8530.7	8372.8	8214.3	8055.8	8212.5	8368.7
67.5°	8874.2	8759.7	8645.8	8531.3	8416.8	8150.9	7885.0	7618.4	7352.5	7363.1	7373.0
70°	7865.6	7835.1	7805.1	7774.6	7744.1	7344.3	6945.1	6545.3	6145.5	6084.4	6023.4
72.5°	6587.5	6607.5	6626.9	6646.8	6666.8	6237.1	5807.3	5377.6	4947.8	4846.3	4744.7
75°	5102.2	5212.6	5323.0	5433.9	5544.3	5133.4	4722.4	4310.9	3899.9	3774.9	3649.8
77.5°	3605.2	3811.3	4016.7	4222.8	4428.9	4057.3	3686.2	3314.6	2943.0	2862.0	2781.0
80°	2513.8	2614.8	2715.8	2816.8	2917.7	2731.1	2544.4	2357.7	2171.0	2193.3	2215.0
82.5°	1831.1	1854.6	1877.5	1900.9	1924.4	1848.1	1771.8	1694.9	1618.6	1676.7	1734.8
85°	1173.0	1256.9	1340.3	1424.2	1507.6	1423.1	1338.5	1253.4	1168.9	1207.6	1246.4
87.5°	262.4	415.1	567.7	720.9	873.6	791.4	709.8	627.6	545.4	508.4	472.0
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: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218

CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1487.6	1518.8	1509.4	1500.6	1491.2	1481.8	1498.8	1515.8	1533.4	1550.5	1544.6
5°	2053.6	2059.4	2003.7	1948.5	1892.7	1836.9	1871.6	1906.2	1940.9	1975.5	1963.2
7.5°	2418.7	2389.4	2357.1	2324.8	2291.9	2259.6	2252.6	2245.5	2237.9	2230.9	2221.5
10°	2712.3	2732.8	2711.7	2691.1	2670.0	2648.9	2599.6	2550.2	2500.3	2451.0	2430.5
12.5°	2941.8	2964.7	2970.0	2974.7	2980.0	2985.3	2930.1	2875.5	2820.3	2765.1	2715.2
15°	2944.8	2964.1	2981.2	2997.6	3014.6	3031.1	2997.0	2963.5	2929.5	2895.4	2879.6
17.5°	3017.0	3020.5	3006.4	2992.9	2978.8	2965.3	2951.8	2938.9	2925.4	2912.5	2887.2
20°	2975.9	2984.1	2982.3	2980.6	2978.2	2976.5	2977.6	2978.2	2979.4	2980.0	2965.9
22.5°	2997.0	2960.0	2967.6	2974.7	2982.3	2989.4	3010.5	3031.6	3053.4	3074.5	3130.9
25°	3159.0	3078.6	3066.3	3054.5	3042.2	3030.5	3085.6	3140.2	3195.4	3250.6	3342.2
27.5°	3053.4	2926.0	2897.8	2869.6	2841.4	2813.2	2897.2	2980.6	3064.5	3148.5	3241.8
30°	3155.5	3025.8	2963.5	2901.3	2838.5	2776.3	2856.7	2936.5	3017.0	3096.8	3200.1
32.5°	3266.5	3178.4	3136.7	3095.6	3053.9	3012.9	3019.3	3025.8	3032.2	3038.7	3184.3
35°	3439.1	3305.8	3264.7	3223.6	3182.5	3141.4	3210.1	3278.2	3346.9	3415.0	3538.3
37.5°	3953.3	3880.0	3806.0	3732.0	3657.5	3583.5	3624.0	3664.5	3705.0	3745.5	3861.8
40°	4390.7	4266.8	4254.5	4242.8	4230.4	4218.1	4221.6	4224.6	4228.1	4231.6	4330.8
42.5°	5168.0	5065.8	5003.0	4940.2	4877.4	4814.6	4810.5	4806.4	4801.7	4797.6	4872.1
45°	6011.6	5935.9	5888.9	5842.0	5794.4	5747.4	5672.9	5598.3	5523.2	5448.6	5513.8
47.5°	6746.6	6750.7	6835.9	6920.4	7005.5	7090.7	6963.3	6835.9	6708.5	6581.1	6497.1
50°	7728.2	7902.0	7922.5	7942.5	7963.0	7983.6	7767.5	7552.1	7336.1	7120.0	7031.9
52.5°	8415.1	8659.3	8627.6	8596.5	8564.8	8533.1	8408.0	8283.6	8158.5	8033.5	7841.5
55°	8837.8	9109.6	9085.5	9062.0	9038.0	9013.9	8922.9	8831.9	8740.9	8649.9	8439.2
57.5°	9082.6	9340.9	9347.9	9355.0	9362.0	9369.1	9345.0	9320.9	9296.9	9272.8	8998.6
60°	9165.4	9445.4	9448.3	9450.7	9453.6	9456.0	9417.8	9379.6	9340.9	9302.7	9123.7
62.5°	8910.0	9160.1	9171.2	9181.8	9193.0	9204.1	9177.7	9151.3	9124.9	9098.4	8965.8
65°	8525.5	8682.2	8685.1	8687.5	8690.4	8693.4	8626.4	8560.1	8493.2	8426.2	8394.5
67.5°	7383.6	7394.2	7456.4	7518.6	7580.9	7643.1	7648.4	7653.7	7659.5	7664.8	7619.0
70°	5962.3	5901.2	5968.8	6036.3	6103.8	6171.3	6200.1	6228.8	6258.2	6287.0	6308.1
72.5°	4642.6	4541.0	4590.9	4640.8	4691.3	4741.2	4698.3	4655.5	4612.6	4569.8	4705.4
75°	3524.8	3399.7	3393.3	3387.4	3380.9	3375.1	3353.4	3331.6	3309.3	3287.6	3414.4
77.5°	2699.4	2618.3	2622.5	2626.0	2630.1	2633.6	2611.3	2589.6	2567.3	2545.0	2593.7
80°	2237.3	2259.1	2259.6	2260.2	2260.8	2261.4	2240.3	2219.7	2198.6	2177.4	2142.2
82.5°	1793.5	1851.6	1851.0	1851.0	1850.5	1849.9	1848.7	1847.5	1845.8	1844.6	1787.0
85°	1285.1	1323.8	1283.9	1244.0	1204.1	1164.2	1193.5	1222.9	1252.8	1282.2	1258.1
87.5°	435.0	398.6	351.1	304.1	256.6	209.0	260.1	311.1	362.8	413.9	443.2
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: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218

CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1539.3	1533.4	1528.1	1491.2	1453.6	1416.6	1379.0	1447.1	1515.8	1583.9	1652.0
5°	1951.4	1939.1	1927.4	1924.4	1921.5	1918.0	1915.0	1949.7	1984.3	2018.4	2053.0
7.5°	2212.1	2202.7	2193.3	2168.6	2144.6	2119.9	2095.3	2116.4	2136.9	2158.1	2178.6
10°	2410.5	2390.0	2369.4	2316.0	2263.2	2209.7	2156.3	2140.5	2124.6	2108.8	2092.9
12.5°	2665.3	2614.8	2564.9	2504.4	2443.4	2382.9	2321.9	2313.7	2305.4	2297.8	2289.6
15°	2864.3	2848.5	2832.6	2784.5	2736.3	2688.2	2640.1	2575.5	2510.3	2445.7	2381.2
17.5°	2862.6	2837.3	2812.7	2877.2	2941.2	3005.8	3069.8	3001.1	2931.8	2863.1	2794.5
20°	2951.8	2937.1	2923.0	3042.2	3160.8	3280.0	3398.6	3361.0	3322.8	3285.3	3247.1
22.5°	3186.6	3243.0	3298.8	3400.9	3502.5	3604.6	3706.2	3749.0	3791.9	3834.8	3877.6
25°	3433.2	3524.8	3616.4	3768.4	3919.9	4071.9	4224.0	4254.5	4285.0	4315.6	4346.1
27.5°	3334.6	3427.9	3521.3	3636.3	3750.8	3865.9	3980.3	4114.2	4248.6	4382.5	4516.3
30°	3302.9	3406.2	3508.9	3666.9	3824.2	3982.1	4140.0	4324.4	4508.7	4692.5	4876.8
32.5°	3329.3	3474.9	3620.5	3834.2	4047.3	4261.0	4474.7	4668.4	4862.7	5056.5	5250.2
35°	3661.0	3784.3	3907.0	4145.9	4384.8	4623.8	4862.7	5089.9	5317.1	5543.7	5770.9
37.5°	3977.4	4093.7	4209.9	4454.1	4697.7	4942.0	5186.2	5544.9	5904.2	6262.9	6621.6
40°	4429.5	4528.7	4627.3	4836.3	5045.3	5254.3	5463.3	5896.0	6328.6	6761.3	7194.0
42.5°	4946.1	5020.6	5094.6	5311.2	5527.9	5744.5	5961.1	6432.0	6903.4	7374.2	7845.0
45°	5578.4	5643.5	5708.7	5857.8	6006.9	6156.6	6305.7	6791.2	7276.8	7762.3	8247.8
47.5°	6413.2	6329.2	6245.3	6318.7	6392.0	6465.4	6538.8	7019.0	7499.3	7978.9	8459.1
50°	6943.9	6855.8	6767.8	6774.2	6780.1	6786.6	6793.0	7240.9	7688.9	8136.2	8584.2
52.5°	7649.5	7457.0	7265.0	7263.3	7261.5	7259.1	7257.4	7647.8	8038.8	8429.2	8819.6
55°	8228.4	8017.6	7806.9	7765.8	7724.7	7683.0	7641.9	8028.2	8413.9	8800.2	9185.9
57.5°	8724.5	8449.7	8175.6	8111.0	8046.4	7981.8	7917.3	8333.5	8750.3	9166.5	9582.8
60°	8945.2	8766.2	8587.7	8508.4	8429.2	8349.9	8270.7	8625.3	8979.9	9333.9	9688.4
62.5°	8833.7	8701.0	8568.9	8587.1	8605.3	8623.5	8641.7	8844.2	9047.4	9249.9	9452.4
65°	8363.4	8331.7	8300.6	8447.4	8594.1	8740.9	8887.7	8890.6	8893.6	8896.5	8899.4
67.5°	7573.2	7527.4	7481.6	7786.9	8091.6	8396.9	8702.2	8557.2	8412.2	8267.7	8122.7
70°	6328.6	6349.8	6370.3	6786.0	7201.0	7616.7	8032.3	7822.1	7611.4	7401.2	7190.5
72.5°	4841.0	4977.2	5112.8	5543.7	5974.6	6405.5	6836.5	6596.3	6355.6	6115.5	5874.8
75°	3541.2	3668.0	3794.8	4220.5	4646.1	5072.3	5497.9	5212.6	4927.3	4642.6	4357.2
77.5°	2642.4	2691.7	2740.5	3094.5	3447.9	3801.9	4155.3	3868.8	3582.3	3296.4	3009.9
80°	2107.6	2072.4	2037.7	2233.8	2429.9	2626.0	2822.1	2618.9	2415.2	2212.1	2009.0
82.5°	1730.1	1672.6	1615.6	1688.4	1761.2	1834.6	1907.4	1744.8	1582.2	1419.5	1256.9
85°	1234.0	1210.0	1185.9	1207.0	1227.6	1248.7	1269.8	1111.3	952.8	794.9	636.4
87.5°	472.0	501.4	530.7	564.2	597.1	630.5	663.4	519.6	375.7	232.5	88.6
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: P368218
 CATALOG NUMBER: MSA-SA4A-730-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: P368218
CATALOG NUMBER: MSA-SA4A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1275.7	1275.7
2.5°	1680.2	1708.4
5°	2052.4	2051.8
7.5°	2169.2	2159.3
10°	2067.1	2041.2
12.5°	2213.3	2136.4
15°	2304.8	2227.9
17.5°	2678.8	2562.6
20°	3109.1	2970.6
22.5°	3666.9	3456.1
25°	4094.2	3841.8
27.5°	4366.6	4216.4
30°	4704.8	4532.8
32.5°	5123.4	4996.0
35°	5654.7	5537.8
37.5°	6585.2	6548.2
40°	7149.9	7105.3
42.5°	7846.8	7848.0
45°	8274.2	8300.6
47.5°	8526.0	8592.4
50°	8726.8	8868.9
52.5°	9013.9	9208.2
55°	9444.2	9702.0
57.5°	9802.3	10021.9
60°	9802.3	9915.6
62.5°	9449.5	9446.0
65°	8844.8	8789.6
67.5°	8053.5	7984.2
70°	7082.4	6973.8
72.5°	5740.4	5605.4
75°	4172.3	3986.8
77.5°	2921.9	2833.2
80°	2051.8	2094.7
82.5°	1318.0	1379.0
85°	627.0	617.6
87.5°	74.0	59.3
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: P368218
CATALOG NUMBER: MSA-SA4A-730-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)