

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: P367689

Luminaire Tested: **MSA-SA3A-730-U-SLR-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-25)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3A-730-U-SLR-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7793 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

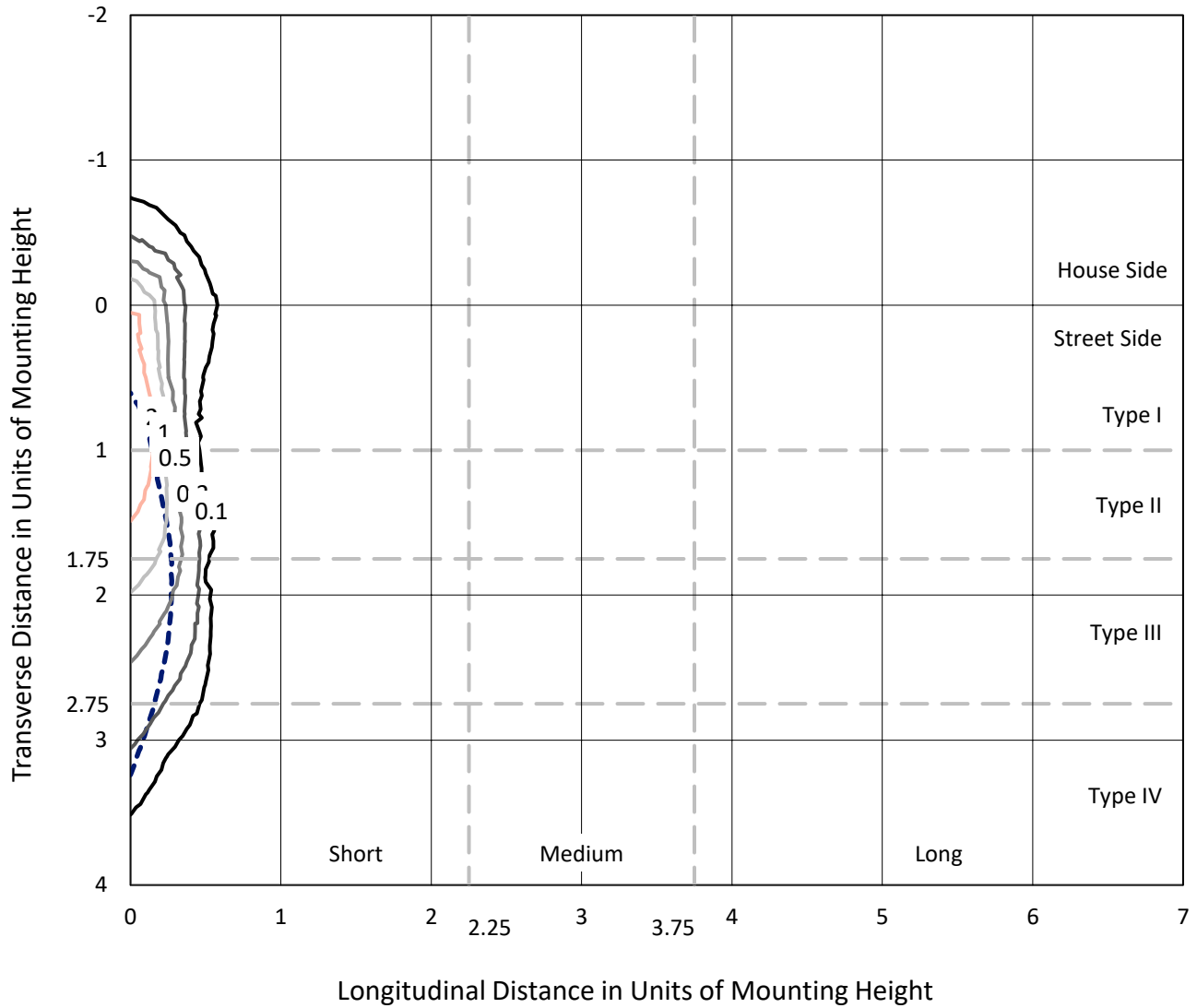
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

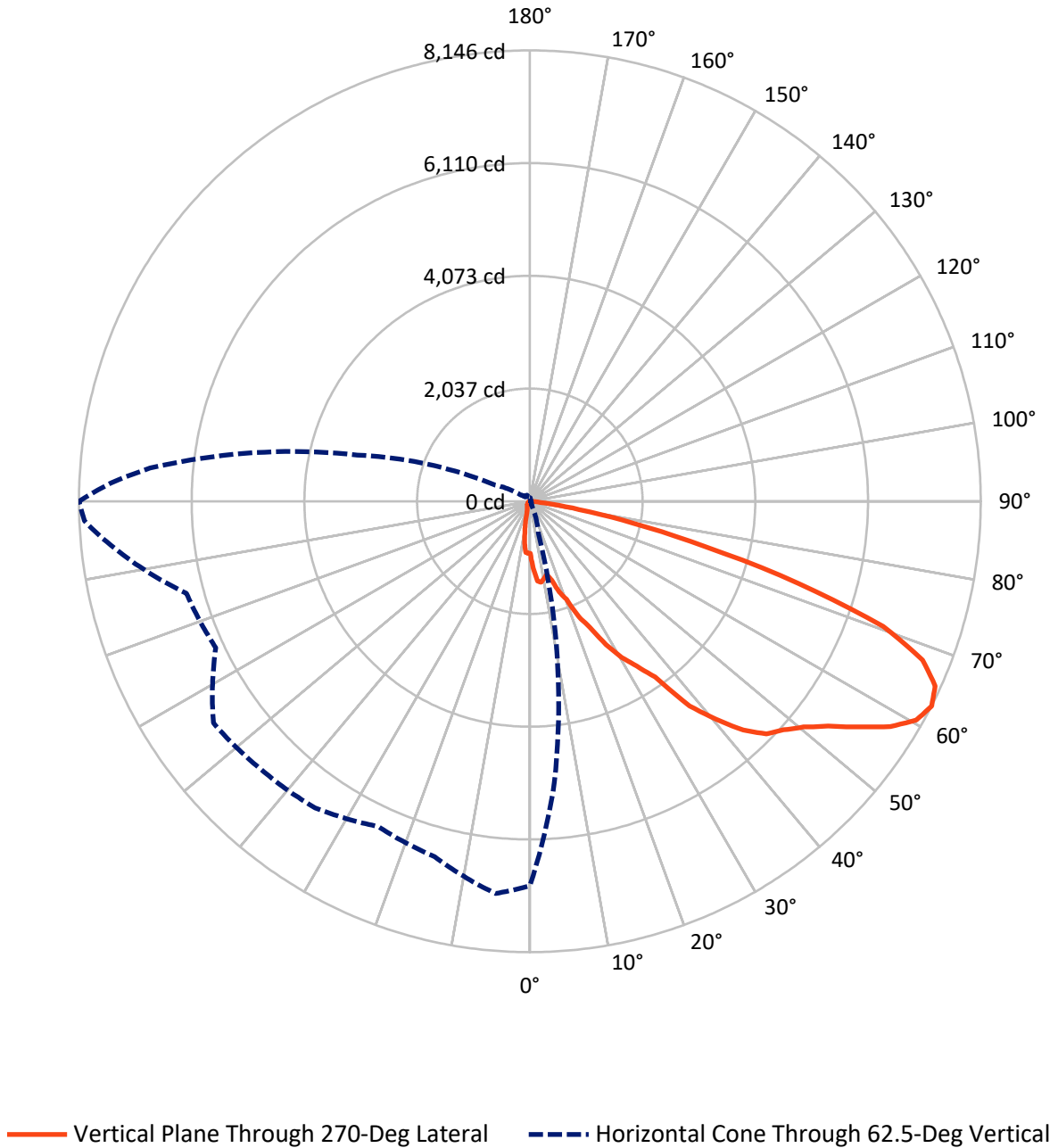
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

REPORT NUMBER: P367689
CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

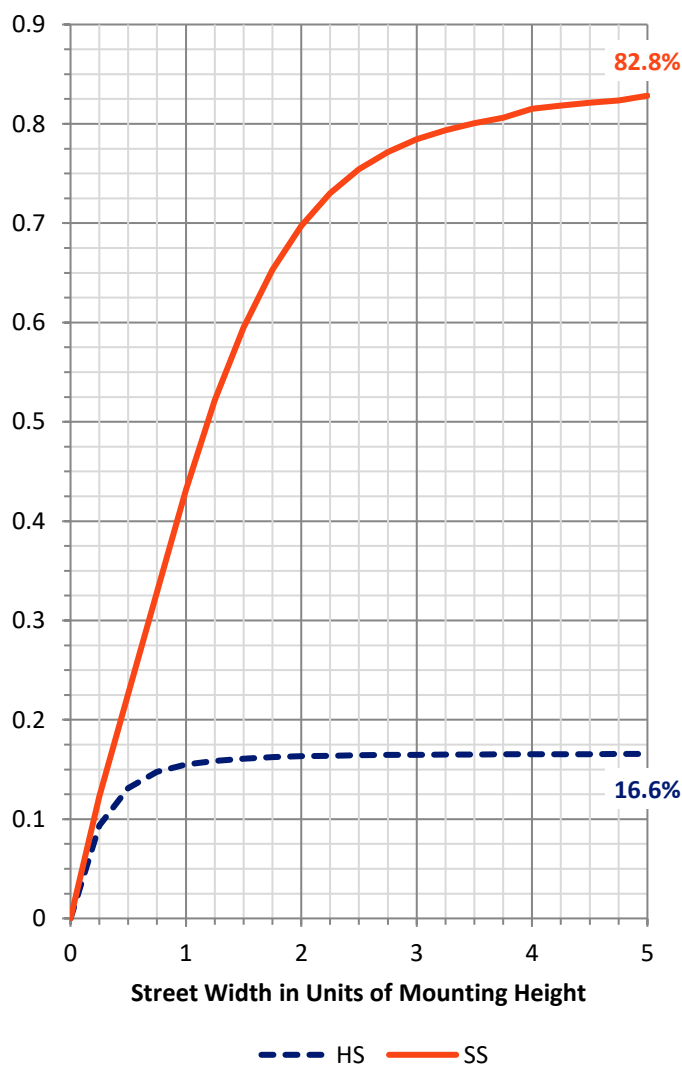
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1301.3	0.0	1301.3
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	6491.7	0.0	6491.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	7793.0	0.0	7793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	1.3
10°-20°	274.1	3.5
20°-30°	443.0	5.7
30°-40°	742.0	9.5
40°-50°	1212.9	15.6
50°-60°	1795.6	23.0
60°-70°	2061.3	26.5
70°-80°	1019.2	13.1
80°-90°	140.0	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7793.0	100.0
0°-180°	7793.0	100.0

Coefficient of Utilization

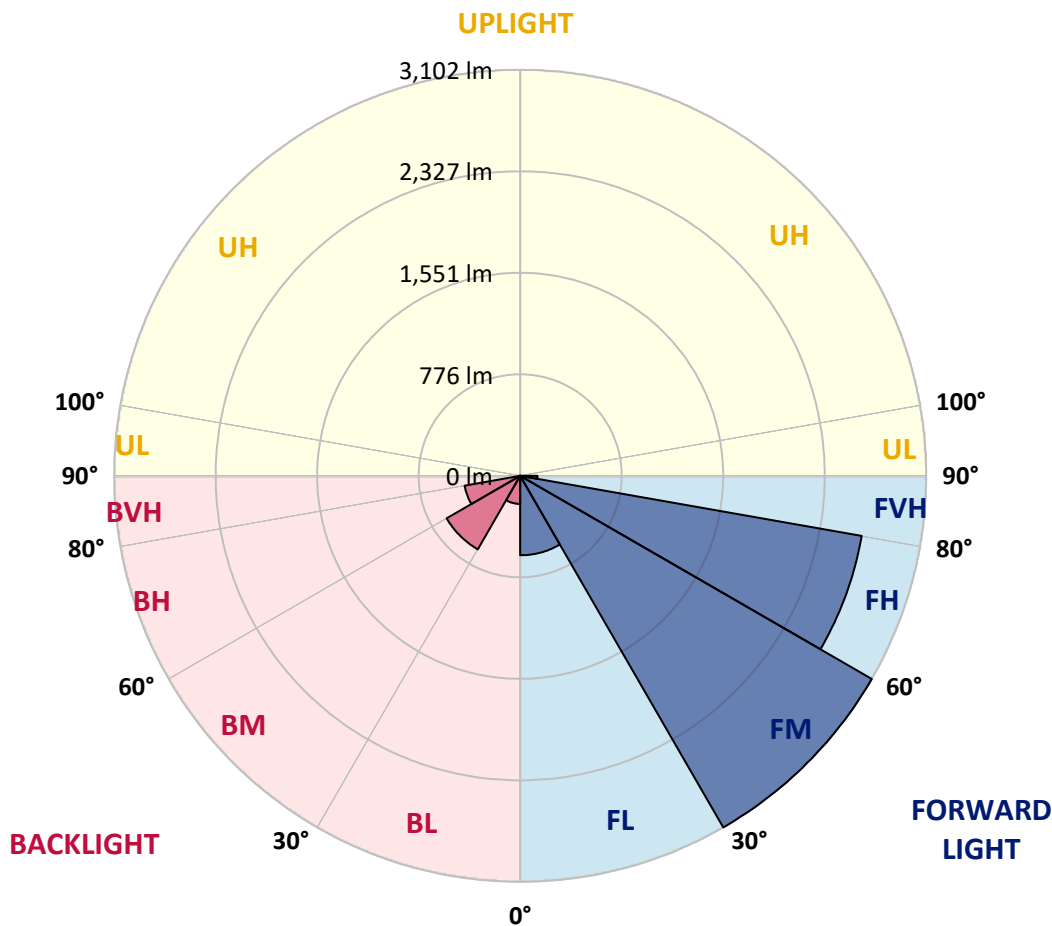


REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.1	7.8			
FM (30°-60°)	3102.0	39.8			
FH (60°-80°)	2650.0	34.0			G2/5000
FVH (80°-90°)	132.5	1.7			G2/225
BL (0°-30°)	214.9	2.8	B1/500		
BM (30°-60°)	648.4	8.3	B1/1000		
BH (60°-80°)	430.6	5.5	B1/500		G1/500
BVH (80°-90°)	7.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





REPORT NUMBER: P367689

CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	1245.2	1260.7	1275.8	1246.9	1218.1	1189.2	1160.3	1134.6	1108.8	1082.6	1056.8
5°	1602.3	1573.9	1545.5	1506.4	1467.3	1428.2	1389.1	1370.9	1352.7	1334.5	1316.2
7.5°	1726.7	1676.1	1625.0	1590.3	1556.1	1521.5	1486.8	1432.2	1377.1	1322.5	1267.4
10°	1629.0	1575.2	1521.0	1490.8	1460.6	1430.4	1400.2	1332.2	1263.8	1195.9	1127.4
12.5°	1673.8	1615.6	1557.5	1495.3	1433.1	1370.9	1308.7	1256.7	1204.3	1152.3	1099.9
15°	1704.9	1638.3	1571.2	1500.2	1429.1	1358.0	1286.9	1225.6	1164.8	1103.5	1042.2
17.5°	1887.5	1792.0	1696.5	1587.2	1477.9	1368.7	1259.4	1188.3	1117.7	1046.6	975.5
20°	2122.1	1986.6	1850.6	1702.7	1554.8	1406.9	1258.9	1170.5	1082.1	993.7	905.3
22.5°	2394.8	2225.6	2055.9	1873.3	1691.2	1508.6	1326.0	1199.0	1071.9	944.9	817.8
25°	2669.4	2516.5	2363.7	2118.1	1872.4	1626.3	1380.7	1219.4	1057.7	896.4	734.7
27.5°	3165.1	2891.9	2618.7	2306.0	1993.7	1680.9	1368.2	1183.4	998.6	813.4	628.6
30°	3489.4	3279.3	3068.7	2655.6	2242.9	1829.8	1416.6	1182.5	948.4	713.9	479.8
32.5°	3877.2	3569.8	3261.9	2813.7	2365.5	1917.3	1469.1	1194.1	918.7	643.7	368.3
35°	4313.0	3978.5	3644.0	3076.3	2508.5	1940.4	1372.7	1106.1	839.6	573.1	306.5
37.5°	5082.8	4523.1	3963.4	3301.5	2639.1	1977.2	1314.9	1048.8	782.3	516.2	249.7
40°	5519.9	4985.5	4451.1	3624.0	2796.8	1969.7	1142.5	906.2	670.3	434.0	197.7
42.5°	6088.6	5410.7	4732.3	3807.9	2883.5	1959.0	1034.6	816.0	597.5	378.5	159.9
45°	6425.7	5657.7	4889.6	3887.9	2886.1	1884.4	882.7	693.4	504.2	315.0	125.7
47.5°	6638.5	5868.2	5097.9	4022.5	2947.4	1872.0	796.5	622.4	448.2	274.1	100.0
50°	6746.5	5973.9	5201.0	4095.8	2990.5	1884.8	779.6	606.4	432.7	259.4	85.7
52.5°	6858.8	6113.9	5368.5	4222.8	3077.2	1931.5	785.8	609.0	432.7	255.9	79.1
55°	7085.8	6351.1	5615.9	4404.9	3194.0	1983.0	772.1	597.9	423.8	249.2	75.1
57.5°	7364.8	6579.4	5793.6	4538.2	3282.8	2027.4	772.1	597.0	422.0	246.5	71.5
60°	7312.0	6459.5	5606.6	4388.5	3170.4	1951.9	733.9	567.3	401.1	234.6	68.0
62.5°	6949.0	6023.7	5097.9	3972.3	2846.2	1720.5	594.4	461.6	328.7	195.5	62.6
65°	6522.6	5540.4	4557.8	3521.8	2485.4	1449.5	413.1	324.3	235.0	146.2	56.9
67.5°	6009.0	4961.6	3914.1	2992.7	2071.9	1150.5	229.2	184.8	140.4	95.5	51.1
70°	5117.9	4036.7	2955.0	2246.9	1539.2	831.1	123.1	103.9	84.8	65.7	46.6
72.5°	3842.1	2851.5	1860.9	1413.5	966.6	519.3	72.0	64.9	57.3	50.2	42.6
75°	2614.3	1872.0	1129.7	860.0	590.8	321.2	51.5	48.0	44.0	40.4	36.4
77.5°	1777.3	1285.6	793.8	605.9	418.0	230.1	42.2	40.0	37.8	35.1	32.9
80°	1109.7	759.6	409.6	315.4	220.8	126.6	32.0	30.7	29.3	27.5	26.2
82.5°	776.1	464.2	152.4	119.1	85.7	52.0	18.7	19.1	19.5	19.5	20.0
85°	325.6	175.9	26.2	22.2	18.2	14.2	10.2	11.1	12.4	13.3	14.2
87.5°	5.8	3.1	0.0	0.9	2.2	3.1	4.0	5.3	6.2	7.6	8.4
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: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

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



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	1063.5	1070.1	1076.4	1083.0	1077.7	1072.8	1067.5	1062.1	1054.1	1046.6	1038.6
5°	1294.0	1271.8	1249.6	1227.4	1193.6	1159.9	1125.7	1091.9	1087.9	1083.9	1079.5
7.5°	1215.4	1163.4	1111.0	1059.0	1010.2	961.3	912.4	863.6	848.5	833.8	818.7
10°	1087.5	1047.5	1007.1	967.1	932.0	896.4	861.4	825.8	788.9	752.1	714.8
12.5°	1058.1	1016.4	974.2	932.4	900.4	868.5	836.5	804.5	763.2	721.9	680.6
15°	996.8	951.5	906.2	860.9	818.3	775.6	732.5	689.9	640.1	590.4	540.6
17.5°	921.8	868.5	814.7	761.0	705.0	649.0	593.0	537.1	479.8	422.9	365.6
20°	832.5	759.6	686.3	613.5	544.2	474.9	405.1	335.8	299.9	264.3	228.3
22.5°	723.6	629.0	534.8	440.2	383.4	326.1	269.2	211.9	196.3	180.8	165.3
25°	627.7	520.6	413.6	306.5	270.5	234.6	198.6	162.6	155.5	147.9	140.8
27.5°	527.7	427.3	326.5	225.7	205.2	184.4	163.9	143.0	138.2	133.7	128.8
30°	404.7	329.6	254.1	179.0	165.7	152.4	138.6	125.3	123.1	120.4	118.2
32.5°	313.6	258.5	203.9	148.8	141.3	133.7	126.2	118.6	115.1	111.5	107.5
35°	262.1	218.1	173.7	129.3	123.9	118.2	112.8	107.1	103.5	99.5	96.0
37.5°	217.2	185.2	152.8	120.4	114.6	108.8	102.6	96.8	94.2	91.5	88.8
40°	179.0	160.4	141.7	123.1	114.6	106.2	97.7	89.3	87.1	84.8	82.6
42.5°	147.9	135.9	123.5	111.5	105.3	99.5	93.3	87.1	84.0	80.4	77.3
45°	119.5	112.8	106.6	100.0	100.4	100.8	100.8	101.3	93.3	84.8	76.9
47.5°	96.8	93.7	90.2	87.1	90.6	94.2	97.3	100.8	92.4	84.0	75.1
50°	83.1	80.8	78.2	75.5	79.1	83.1	86.6	90.2	86.6	83.5	80.0
52.5°	76.0	72.9	69.7	66.6	68.0	69.7	71.1	72.4	72.4	72.4	72.4
55°	71.5	68.4	64.9	61.3	60.0	58.2	56.9	55.1	52.9	51.1	48.9
57.5°	68.0	64.4	60.4	56.9	54.6	52.0	49.8	47.1	44.9	42.2	40.0
60°	64.4	60.9	56.9	53.3	51.1	48.9	46.2	44.0	41.3	39.1	36.4
62.5°	59.5	56.4	53.3	50.2	48.0	46.2	44.0	41.8	39.1	36.4	33.3
65°	54.2	52.0	49.3	46.6	44.4	42.2	40.0	37.8	35.1	32.9	30.2
67.5°	49.3	47.1	45.3	43.1	40.4	38.2	35.5	32.9	31.1	29.3	27.1
70°	45.3	43.5	42.2	40.4	37.8	35.5	32.9	30.2	28.9	27.1	25.8
72.5°	41.3	40.0	38.2	36.9	34.6	32.4	30.2	28.0	26.7	25.3	24.0
75°	35.5	34.6	33.8	32.9	30.7	28.4	25.8	23.5	23.1	22.7	22.2
77.5°	32.0	31.5	30.7	29.8	27.5	25.3	23.1	20.9	21.3	21.8	21.8
80°	26.2	26.2	25.8	25.8	24.0	22.2	20.0	18.2	19.1	20.4	21.3
82.5°	20.0	20.0	20.0	20.0	18.2	16.4	14.7	12.9	14.2	15.1	16.4
85°	13.8	13.3	12.9	12.4	11.1	10.2	8.9	7.6	9.3	10.7	12.4
87.5°	8.4	8.9	8.9	8.9	8.0	6.7	5.8	4.4	5.3	5.8	6.7
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: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

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: P367689

CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	1030.6	1017.3	1003.9	990.2	976.9	945.8	914.7	883.6	852.5	875.6	898.2
5°	1075.5	1049.7	1023.5	997.7	971.5	960.0	948.9	937.3	925.8	927.5	929.8
7.5°	803.6	786.7	769.8	752.5	735.6	732.1	729.0	725.4	721.9	729.4	736.5
10°	677.9	654.3	630.4	606.8	582.8	569.9	557.1	544.2	531.3	530.0	528.2
12.5°	639.2	603.3	567.7	531.7	495.8	467.8	439.8	411.8	383.8	386.0	388.3
15°	490.9	454.9	419.3	383.4	347.4	324.7	301.6	279.0	255.9	249.2	242.5
17.5°	308.3	281.6	255.0	227.9	201.2	193.7	186.6	179.0	171.5	169.2	167.0
20°	192.3	180.8	169.2	157.3	145.7	143.9	142.2	140.4	138.6	139.9	141.3
22.5°	149.7	144.8	139.5	134.6	129.3	127.5	125.7	123.9	122.2	123.5	124.4
25°	133.3	129.7	126.2	122.6	119.1	117.3	115.1	113.3	111.1	111.9	113.3
27.5°	123.9	120.8	117.7	114.6	111.5	108.4	105.7	102.6	99.5	101.3	102.6
30°	115.5	111.9	108.8	105.3	101.7	98.6	95.5	92.0	88.8	90.6	92.4
32.5°	103.9	100.8	97.3	94.2	90.6	88.8	87.1	84.8	83.1	84.4	85.3
35°	92.0	89.3	87.1	84.4	81.7	80.0	78.6	76.9	75.1	75.5	76.4
37.5°	86.2	83.1	80.0	76.9	73.7	72.9	72.0	70.6	69.7	69.7	69.7
40°	80.4	77.3	74.2	70.6	67.5	66.2	64.9	63.5	62.2	62.2	62.2
42.5°	73.7	70.6	67.5	64.4	61.3	60.0	58.2	56.9	55.1	55.1	55.1
45°	68.4	65.3	62.6	59.5	56.4	54.2	52.0	49.3	47.1	46.6	46.2
47.5°	66.6	62.2	57.7	53.3	48.9	46.6	44.4	41.8	39.5	39.1	38.6
50°	76.4	67.5	58.6	49.8	40.9	39.1	37.3	35.5	33.8	32.9	32.4
52.5°	72.4	63.1	53.8	44.4	35.1	33.8	32.4	31.1	29.8	28.9	28.0
55°	46.6	42.6	39.1	35.1	31.1	30.2	29.3	28.0	27.1	26.2	25.3
57.5°	37.3	35.1	33.3	31.1	28.9	28.0	27.1	25.8	24.9	23.5	22.7
60°	33.8	32.0	30.2	28.4	26.7	25.8	24.9	24.0	23.1	21.8	20.9
62.5°	30.7	29.3	28.0	26.7	25.3	24.4	23.5	22.7	21.8	20.4	19.1
65°	27.5	26.7	25.8	24.9	24.0	23.1	22.2	20.9	20.0	18.7	17.3
67.5°	25.3	24.9	24.4	24.0	23.5	22.7	21.3	20.4	19.1	17.8	16.0
70°	24.0	24.0	24.0	23.5	23.5	22.7	21.3	20.4	19.1	17.3	16.0
72.5°	22.7	23.1	23.5	23.5	24.0	22.7	21.3	20.0	18.7	16.9	15.5
75°	21.8	22.2	22.7	22.7	23.1	22.2	21.3	20.0	19.1	17.3	15.5
77.5°	22.2	22.7	22.7	23.1	23.1	22.2	21.3	20.0	19.1	16.9	14.7
80°	22.2	21.8	21.3	20.4	20.0	18.2	16.4	14.2	12.4	9.8	7.6
82.5°	17.3	16.4	16.0	15.1	14.2	12.4	10.7	8.9	7.1	5.3	3.6
85°	13.8	12.9	12.4	11.5	10.7	9.3	7.6	6.2	4.4	3.6	2.2
87.5°	7.1	6.7	5.8	5.3	4.4	3.6	2.2	1.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	921.3	944.0	940.9	937.8	952.4	967.1	956.4	946.2	935.5	924.9	902.7
5°	931.5	933.3	930.2	926.7	927.1	927.5	920.4	913.3	906.2	899.1	897.8
7.5°	744.1	751.2	761.0	770.3	770.7	770.7	765.4	760.1	754.3	749.0	751.6
10°	526.9	525.1	527.7	530.4	530.0	529.1	543.3	557.5	571.3	585.5	575.3
12.5°	390.0	392.3	381.1	370.0	374.0	377.6	379.8	382.0	384.3	386.5	392.7
15°	235.9	229.2	221.2	213.2	217.2	220.8	224.8	228.3	232.3	235.9	239.9
17.5°	164.4	162.1	158.6	154.6	155.0	155.5	155.9	156.4	156.4	156.8	157.7
20°	142.6	143.9	141.3	138.2	137.3	135.9	135.0	134.2	132.8	131.9	130.6
22.5°	125.7	126.6	127.0	127.0	125.3	123.1	121.3	119.9	118.2	116.4	115.5
25°	114.2	115.1	114.2	112.8	111.9	111.1	110.2	108.8	107.9	106.6	106.2
27.5°	104.4	105.7	105.7	105.3	104.4	103.1	100.8	99.1	96.8	94.6	95.1
30°	94.2	96.0	96.0	95.5	95.1	94.6	92.4	90.2	88.0	85.7	86.6
32.5°	86.6	87.5	87.1	86.6	86.6	86.2	84.4	83.1	81.3	79.5	79.5
35°	76.9	77.3	77.3	77.3	77.3	76.9	75.5	74.2	72.9	71.5	72.0
37.5°	69.7	69.7	71.1	72.0	71.1	70.2	69.3	68.0	67.1	65.7	65.7
40°	61.7	61.7	63.1	64.0	63.1	62.2	61.7	60.9	60.4	59.5	59.5
42.5°	54.6	54.6	56.0	56.9	56.9	56.4	55.5	54.6	53.8	52.9	53.3
45°	45.8	45.3	47.5	49.3	48.4	47.5	47.5	47.1	47.1	46.6	47.1
47.5°	37.8	37.3	39.1	40.9	40.4	39.5	39.5	39.5	39.5	39.5	40.0
50°	31.5	30.7	32.4	33.8	33.3	32.4	32.4	32.9	32.9	32.9	33.3
52.5°	27.1	26.2	27.5	28.4	28.0	27.5	27.5	28.0	28.0	28.0	28.4
55°	24.0	23.1	24.4	25.3	24.9	24.0	24.4	24.4	24.9	24.9	24.9
57.5°	21.3	20.0	20.9	21.8	21.8	21.3	21.8	21.8	22.2	22.2	22.2
60°	19.5	18.2	19.1	19.5	19.5	19.1	19.5	19.5	20.0	20.0	20.0
62.5°	17.3	16.0	16.9	17.3	17.3	16.9	17.3	17.3	17.8	17.8	17.8
65°	15.5	14.2	14.7	15.1	15.1	15.1	15.5	15.5	16.0	16.0	16.0
67.5°	14.7	12.9	13.3	13.8	13.8	13.8	14.2	14.2	14.7	14.7	15.1
70°	14.2	12.4	12.9	12.9	13.3	13.3	13.3	13.8	13.8	13.8	13.8
72.5°	13.8	12.0	12.0	12.0	12.4	12.4	12.4	12.9	12.9	12.9	12.9
75°	13.8	12.0	11.5	11.1	11.5	11.5	11.5	12.0	12.0	12.0	12.0
77.5°	12.0	9.8	8.9	7.6	8.9	9.8	10.2	10.2	10.7	10.7	10.7
80°	4.9	2.2	1.3	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1
82.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	880.5	858.2	836.0	846.7	857.4	868.0	878.7	877.8	876.5	875.6	874.2
5°	896.9	895.6	894.2	888.0	882.2	876.0	869.8	868.5	866.7	865.4	863.6
7.5°	754.3	756.5	759.2	752.1	745.0	737.9	730.8	712.5	694.3	675.7	657.5
10°	565.1	554.4	544.2	543.3	542.4	541.5	540.6	538.8	537.1	534.8	533.1
12.5°	399.4	405.6	411.8	409.6	407.4	404.7	402.5	405.6	409.1	412.2	415.4
15°	243.4	247.4	251.0	259.0	267.0	275.0	283.0	286.1	289.6	292.7	295.9
17.5°	158.6	159.0	159.9	168.8	177.2	186.1	194.6	200.3	206.1	211.5	217.2
20°	129.3	127.9	126.6	131.5	136.4	141.3	146.2	151.5	156.8	162.1	167.5
22.5°	115.1	114.2	113.3	115.1	116.8	118.2	119.9	123.9	128.4	132.4	136.4
25°	105.7	104.8	104.4	105.3	106.2	107.1	107.9	110.2	112.4	114.6	116.8
27.5°	95.1	95.5	95.5	96.4	96.8	97.7	98.2	99.1	100.4	101.3	102.2
30°	87.1	88.0	88.4	89.3	89.7	90.6	91.1	90.6	90.2	89.7	89.3
32.5°	79.5	79.1	79.1	80.0	80.4	81.3	81.7	82.6	83.5	84.0	84.8
35°	72.0	72.4	72.4	72.4	72.9	72.9	72.9	73.7	75.1	76.0	76.9
37.5°	65.3	65.3	64.9	66.2	67.1	68.4	69.3	70.2	71.5	72.4	73.3
40°	59.5	59.5	59.5	60.4	61.3	61.7	62.6	64.9	67.1	69.3	71.5
42.5°	53.3	53.8	53.8	54.6	55.5	56.0	56.9	58.6	60.0	61.7	63.1
45°	47.5	48.0	48.4	49.3	49.8	50.6	51.1	52.0	52.4	53.3	53.8
47.5°	40.9	41.3	41.8	42.6	43.1	44.0	44.4	44.0	44.0	43.5	43.1
50°	34.2	34.6	35.1	36.4	37.3	38.6	39.5	38.6	37.8	36.4	35.5
52.5°	28.9	28.9	29.3	30.2	31.1	31.5	32.4	32.0	31.5	31.1	30.7
55°	24.9	24.9	24.9	25.3	25.8	26.2	26.7	27.1	27.1	27.5	27.5
57.5°	22.2	21.8	21.8	22.2	22.7	22.7	23.1	23.5	23.5	24.0	24.0
60°	20.0	19.5	19.5	20.0	20.4	20.9	21.3	21.3	21.3	20.9	20.9
62.5°	17.8	17.8	17.8	18.2	18.2	18.7	18.7	18.7	19.1	19.1	19.1
65°	16.4	16.4	16.4	16.4	16.4	16.0	16.0	16.4	16.4	16.9	16.9
67.5°	15.1	15.5	15.5	15.1	14.7	14.2	13.8	14.2	14.2	14.7	14.7
70°	13.8	13.8	13.8	13.3	12.9	12.4	12.0	12.0	12.0	11.5	11.5
72.5°	12.9	12.4	12.4	12.0	11.1	10.7	9.8	9.3	9.3	8.9	8.4
75°	12.0	11.5	11.5	10.7	9.8	8.9	8.0	7.6	6.7	6.2	5.3
77.5°	10.7	10.7	10.7	9.3	8.4	7.1	5.8	4.9	4.0	2.7	1.8
80°	3.6	4.0	4.4	4.0	4.0	3.6	3.1	2.2	1.8	0.9	0.0
82.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	879.1	884.0	888.9	893.8	894.2	894.7	895.1	895.6	884.5	872.9	861.8
5°	872.5	881.8	890.7	899.6	894.7	889.8	884.9	880.0	879.6	879.6	879.1
7.5°	658.8	659.7	661.0	661.9	663.7	665.5	666.8	668.6	675.7	682.8	689.4
10°	527.3	521.5	515.3	509.5	505.1	500.2	495.8	490.9	494.4	498.4	502.0
12.5°	410.5	405.6	400.2	395.4	393.6	391.8	389.6	387.8	399.4	410.9	422.0
15°	295.0	294.1	292.7	291.9	297.6	303.4	309.2	315.0	324.7	334.1	343.8
17.5°	219.4	221.7	223.9	226.1	229.7	233.2	236.3	239.9	247.0	254.5	261.6
20°	170.1	173.2	175.9	178.6	177.7	176.8	175.5	174.6	180.4	186.1	191.5
22.5°	139.0	141.3	143.9	146.2	146.6	147.0	147.5	147.9	151.5	154.6	158.1
25°	119.1	121.7	123.9	126.2	126.6	127.0	127.5	127.9	132.4	136.8	140.8
27.5°	105.3	107.9	111.1	113.7	114.6	115.5	116.4	117.3	119.9	122.2	124.8
30°	92.8	96.4	100.0	103.5	104.8	106.2	107.5	108.8	111.5	114.6	117.3
32.5°	86.6	88.8	90.6	92.4	95.5	98.2	101.3	103.9	107.1	110.6	113.7
35°	79.5	81.7	84.4	86.6	88.8	91.1	92.8	95.1	96.8	98.6	100.0
37.5°	75.1	77.3	79.1	80.8	81.7	82.6	83.1	84.0	84.8	85.7	86.2
40°	71.5	71.1	71.1	70.6	71.5	72.9	73.7	74.6	77.3	79.5	82.2
42.5°	62.2	60.9	60.0	58.6	60.9	62.6	64.9	66.6	70.2	73.7	77.3
45°	52.9	52.0	50.6	49.8	52.9	56.0	59.1	62.2	66.2	69.7	73.7
47.5°	43.5	44.0	44.0	44.4	47.5	50.6	53.3	56.4	60.4	64.4	68.4
50°	36.4	37.3	38.2	39.1	42.2	44.9	48.0	50.6	55.1	59.1	63.5
52.5°	32.0	33.3	34.2	35.5	38.2	41.3	44.0	46.6	50.6	54.6	58.6
55°	28.9	30.7	32.0	33.3	35.5	37.8	40.0	42.2	46.2	50.2	53.8
57.5°	25.3	26.7	28.0	29.3	31.5	33.8	35.5	37.8	41.3	45.3	48.9
60°	22.2	23.1	24.4	25.3	27.1	29.3	31.1	32.9	36.4	40.0	43.1
62.5°	19.5	20.4	20.9	21.3	23.1	24.9	26.7	28.4	31.5	35.1	38.2
65°	17.3	17.8	17.8	18.2	19.5	21.3	22.7	24.0	27.5	30.7	34.2
67.5°	14.7	15.1	15.1	15.1	16.4	17.8	19.1	20.4	23.5	27.1	30.2
70°	11.5	12.0	12.0	12.0	13.3	15.1	16.4	17.8	20.4	23.1	25.8
72.5°	8.9	8.9	9.3	9.3	10.7	12.4	13.8	15.1	17.3	19.5	21.8
75°	5.8	6.2	6.2	6.7	8.0	9.8	11.1	12.4	14.7	16.9	18.7
77.5°	2.2	3.1	3.6	4.0	5.3	6.7	8.0	9.3	11.1	13.3	15.1
80°	0.0	0.4	0.4	0.4	1.3	1.8	2.7	3.1	4.4	6.2	7.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	850.2	874.7	899.1	923.5	948.0	978.2	1008.4	1012.8	1017.3	1011.9	1007.1
5°	878.7	890.7	902.2	914.2	925.8	960.4	994.6	995.1	995.1	995.5	995.5
7.5°	696.5	706.8	717.0	726.8	737.0	759.6	782.3	790.7	798.7	796.9	795.2
10°	505.5	518.9	531.7	545.1	557.9	578.8	599.7	607.7	615.3	639.7	664.6
12.5°	433.6	446.4	459.3	471.8	484.7	506.0	527.3	542.8	557.9	573.1	588.2
15°	353.2	363.4	374.0	384.3	394.5	404.2	414.0	433.1	451.8	466.9	482.0
17.5°	268.8	273.2	277.2	281.6	285.6	290.1	294.5	302.5	310.1	323.4	336.3
20°	197.2	200.8	204.3	207.5	211.0	215.4	219.9	225.7	231.0	234.1	236.8
22.5°	161.3	166.6	171.9	176.8	182.1	185.2	188.4	190.1	191.9	193.2	194.6
25°	145.3	150.1	154.6	159.5	163.9	165.3	166.6	170.1	173.7	173.7	173.7
27.5°	127.0	133.7	140.8	147.5	154.1	155.9	157.3	158.6	159.5	157.7	155.5
30°	119.9	126.6	133.3	139.5	146.2	148.8	151.0	152.4	153.7	151.5	149.3
32.5°	116.8	123.1	128.8	135.0	140.8	144.4	147.5	151.0	154.1	154.6	155.5
35°	101.7	105.7	110.2	114.2	118.2	119.9	121.7	123.1	123.9	123.9	123.9
37.5°	87.1	92.4	98.2	103.5	108.8	112.8	116.8	117.3	117.3	118.2	119.5
40°	84.4	89.7	95.1	100.0	105.3	109.7	113.7	114.2	114.6	115.5	116.4
42.5°	80.8	86.6	92.4	98.2	103.9	108.4	112.4	112.4	111.9	113.3	114.2
45°	77.3	83.1	88.4	94.2	99.5	105.3	110.6	109.3	107.5	109.7	111.5
47.5°	72.4	78.6	84.8	90.6	96.8	102.2	107.1	106.2	104.8	107.1	109.3
50°	67.5	73.7	80.0	86.2	92.4	98.2	103.5	102.6	101.7	104.4	106.6
52.5°	62.6	68.9	75.5	81.7	88.0	92.8	97.3	96.8	96.4	99.1	102.2
55°	57.7	63.5	69.7	75.5	81.3	86.6	91.5	90.6	89.7	92.0	94.2
57.5°	52.4	58.2	63.5	69.3	74.6	79.1	83.1	81.7	80.4	83.1	85.7
60°	46.6	52.0	57.3	62.2	67.5	71.1	74.2	73.3	72.0	74.6	77.3
62.5°	41.3	46.2	51.1	55.5	60.4	63.1	65.7	64.9	64.0	66.6	69.7
65°	37.3	41.3	44.9	48.9	52.4	55.1	57.7	56.4	55.1	58.2	60.9
67.5°	33.3	36.4	40.0	43.1	46.2	48.4	50.6	49.8	48.4	50.6	52.9
70°	28.4	31.5	34.6	37.3	40.4	42.6	44.9	43.5	41.8	44.0	46.2
72.5°	24.0	26.7	29.3	31.5	34.2	36.0	37.8	36.4	35.1	36.9	38.6
75°	20.9	23.1	25.3	27.1	29.3	30.2	31.1	30.7	29.8	31.5	32.9
77.5°	16.9	18.7	20.9	22.7	24.4	24.4	24.4	24.9	24.9	26.7	28.9
80°	8.9	10.7	12.4	13.8	15.5	15.5	15.1	16.0	16.4	18.7	20.9
82.5°	0.0	1.3	2.7	4.0	5.3	4.9	4.0	4.4	4.4	5.3	6.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689

CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	1001.7	996.4	992.8	989.7	986.2	982.6	987.1	991.5	995.5	1000.0	1013.3
5°	996.0	996.0	992.8	989.7	986.6	983.5	990.2	996.4	1003.1	1009.3	1008.8
7.5°	792.9	791.2	809.8	828.0	846.7	864.9	869.8	874.7	879.1	884.0	882.7
10°	689.0	713.4	721.4	729.4	737.4	745.4	755.2	765.0	774.7	784.5	788.1
12.5°	603.3	618.4	644.1	669.4	695.2	720.5	733.4	746.7	759.6	772.5	797.8
15°	497.1	512.2	534.4	556.6	578.8	601.0	621.5	642.4	662.8	683.2	713.9
17.5°	349.6	362.5	379.4	396.2	412.7	429.6	461.1	492.6	524.2	555.7	588.2
20°	239.9	242.5	250.5	259.0	267.0	275.0	303.4	332.3	360.7	389.1	431.8
22.5°	195.5	196.8	200.8	204.8	208.3	212.3	227.0	242.1	256.8	271.4	306.1
25°	173.2	173.2	175.9	178.6	181.2	183.9	191.9	199.9	207.5	215.4	237.7
27.5°	153.7	151.5	155.5	159.5	163.5	167.5	173.2	179.5	185.2	191.0	206.1
30°	147.0	144.8	149.7	154.6	159.5	164.4	170.1	175.9	181.2	187.0	197.2
32.5°	155.9	156.4	158.1	159.9	161.3	163.0	165.7	168.8	171.5	174.1	183.0
35°	123.9	123.9	127.0	130.2	132.8	135.9	140.8	145.7	150.6	155.5	164.8
37.5°	120.4	121.3	123.9	127.0	129.7	132.4	138.6	145.3	151.5	157.7	165.3
40°	116.8	117.7	121.3	124.8	128.4	131.9	138.2	143.9	150.1	155.9	163.0
42.5°	115.5	116.4	120.8	125.7	130.2	134.6	139.9	145.3	150.1	155.5	165.3
45°	113.7	115.5	120.8	126.6	131.9	137.3	142.2	147.0	151.9	156.8	168.8
47.5°	111.1	113.3	119.5	125.3	131.5	137.3	146.6	156.4	165.7	175.0	180.8
50°	109.3	111.5	118.2	124.8	131.5	138.2	153.3	168.4	183.0	198.1	195.0
52.5°	104.8	107.5	115.9	124.4	132.8	141.3	154.6	167.9	181.2	194.6	188.4
55°	96.4	98.6	108.4	118.2	127.5	137.3	147.0	156.8	166.1	175.9	168.8
57.5°	88.0	90.6	100.0	109.3	118.2	127.5	132.4	137.3	142.2	147.0	144.4
60°	80.0	82.6	95.1	107.5	119.9	132.4	127.9	123.5	118.6	114.2	117.3
62.5°	72.4	75.1	87.1	98.6	110.6	122.2	115.9	109.7	103.5	97.3	102.2
65°	64.0	66.6	71.1	76.0	80.4	84.8	84.4	83.5	83.1	82.2	87.5
67.5°	55.1	57.3	59.5	62.2	64.4	66.6	68.0	69.7	71.1	72.4	76.9
70°	48.0	50.2	52.9	55.1	57.7	60.0	60.9	61.7	62.2	63.1	67.1
72.5°	40.0	41.8	45.3	48.9	52.0	55.5	56.0	56.0	56.4	56.4	59.5
75°	34.6	36.0	38.6	41.3	43.5	46.2	47.5	48.9	49.8	51.1	52.9
77.5°	30.7	32.4	33.3	33.8	34.6	35.1	36.0	36.9	37.8	38.6	39.1
80°	22.7	24.9	25.8	26.2	27.1	27.5	27.5	27.1	27.1	26.7	27.1
82.5°	7.1	8.0	9.3	10.7	12.0	13.3	13.8	14.2	14.2	14.7	14.2
85°	1.3	1.8	2.7	3.6	4.0	4.9	4.4	3.6	3.1	2.2	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	1026.6	1039.5	1052.8	1047.5	1042.2	1036.8	1031.5	1032.4	1033.7	1034.6	1035.5
5°	1008.4	1007.5	1007.1	1022.2	1037.7	1052.8	1067.9	1084.4	1101.2	1117.7	1134.1
7.5°	881.3	879.6	878.2	897.8	917.3	936.9	956.4	979.1	1002.2	1024.8	1047.5
10°	791.6	795.2	798.7	806.7	815.2	823.2	831.1	852.9	874.7	896.0	917.8
12.5°	823.2	848.0	873.3	878.2	882.7	887.6	892.0	895.1	898.2	901.3	904.4
15°	745.0	775.6	806.3	819.2	831.6	844.5	856.9	889.8	922.2	955.1	987.5
17.5°	620.6	652.6	685.0	723.6	762.3	800.9	839.6	875.1	910.7	946.2	981.7
20°	474.9	517.5	560.2	609.0	658.3	707.2	756.1	791.6	826.7	862.2	897.3
22.5°	341.2	375.8	410.5	469.5	528.2	587.3	645.9	707.7	769.8	831.6	893.3
25°	259.9	281.6	303.9	362.0	420.2	478.0	536.2	621.0	705.9	790.7	875.6
27.5°	220.8	235.9	250.5	303.0	355.4	407.4	459.8	560.6	661.5	762.3	863.1
30°	207.9	218.1	228.3	272.8	317.6	362.0	406.5	508.6	610.8	713.0	815.2
32.5°	191.9	200.3	209.2	248.3	287.4	326.1	365.2	465.1	565.1	664.6	764.5
35°	173.7	183.0	191.9	231.0	270.1	308.7	347.8	451.3	554.8	658.3	761.8
37.5°	172.4	179.9	187.0	232.3	278.1	323.4	368.7	472.2	575.7	678.8	782.3
40°	170.6	177.7	184.8	231.0	276.8	323.0	368.7	477.1	585.5	693.9	802.3
42.5°	175.0	184.4	194.1	235.0	275.9	316.3	357.2	471.3	585.5	699.2	813.4
45°	181.2	193.2	205.2	242.5	279.9	317.2	354.5	478.4	602.4	725.9	849.8
47.5°	187.0	192.8	198.6	234.1	269.2	304.7	339.8	466.4	593.0	719.6	846.2
50°	192.3	189.2	186.1	225.2	264.3	303.0	342.1	462.9	583.3	704.1	824.5
52.5°	181.7	175.5	168.8	210.6	252.3	293.6	335.4	457.1	578.8	700.5	822.3
55°	161.7	154.6	147.5	188.8	229.7	271.0	311.8	433.1	554.4	675.7	796.9
57.5°	141.3	138.6	135.5	167.0	198.6	229.7	261.2	395.8	530.8	665.5	800.1
60°	120.4	123.1	126.2	148.8	171.5	193.7	216.3	348.3	479.8	611.7	743.2
62.5°	106.6	111.5	115.9	135.0	154.6	173.7	192.8	317.2	441.6	565.9	690.3
65°	93.3	98.6	103.9	126.6	149.7	172.4	195.0	300.3	405.6	510.9	616.1
67.5°	81.3	85.3	89.7	119.5	149.3	179.0	208.8	295.0	380.7	466.9	552.6
70°	71.1	74.6	78.6	113.3	147.9	182.6	217.2	290.5	364.3	437.6	510.9
72.5°	62.6	65.7	68.9	103.9	139.0	174.1	209.2	274.5	339.4	404.7	469.5
75°	54.6	56.0	57.7	87.5	116.8	146.6	175.9	219.4	263.4	307.0	350.5
77.5°	39.5	39.5	40.0	48.9	57.3	66.2	74.6	101.7	128.8	155.5	182.6
80°	27.1	27.5	27.5	31.1	34.2	37.8	40.9	46.6	52.0	57.7	63.1
82.5°	13.8	12.9	12.4	16.0	19.5	23.1	26.7	28.0	28.9	30.2	31.1
85°	1.3	0.4	0.0	2.2	4.4	6.7	8.9	10.7	12.4	14.2	16.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

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: P367689

CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	1031.9	1028.4	1024.8	1021.3	1043.0	1065.3	1087.0	1108.8	1170.5	1211.0	1206.5
5°	1150.1	1166.1	1182.1	1198.1	1223.8	1250.1	1275.8	1301.6	1393.1	1449.1	1457.1
7.5°	1072.4	1096.8	1121.7	1146.1	1195.9	1245.2	1294.9	1344.2	1419.3	1477.5	1510.4
10°	945.8	973.7	1001.3	1029.3	1085.2	1141.7	1197.6	1253.6	1338.0	1418.4	1459.7
12.5°	948.4	992.4	1036.4	1080.4	1129.2	1178.1	1226.5	1275.4	1326.9	1354.0	1412.2
15°	1022.2	1056.8	1091.5	1126.1	1190.1	1254.0	1317.6	1381.5	1412.2	1477.5	1545.5
17.5°	1049.3	1117.2	1184.7	1252.3	1332.2	1411.7	1491.7	1571.2	1629.0	1719.6	1789.8
20°	999.1	1100.8	1202.1	1303.8	1413.5	1523.2	1633.0	1742.7	1805.8	1892.0	2000.3
22.5°	1001.3	1109.2	1216.7	1324.7	1476.2	1627.2	1778.7	1929.7	2099.0	2265.1	2318.0
25°	1016.8	1158.1	1298.9	1440.2	1615.2	1790.2	1965.3	2140.3	2344.6	2519.2	2589.4
27.5°	1022.2	1181.2	1339.8	1498.8	1747.6	1996.4	2245.1	2493.9	2737.8	2935.0	3010.1
30°	1009.3	1203.9	1398.0	1592.1	1897.3	2202.5	2507.7	2812.8	3044.3	3273.9	3367.2
32.5°	1012.4	1260.3	1508.1	1756.0	2115.4	2475.2	2834.6	3194.0	3341.9	3548.9	3713.3
35°	1033.7	1305.6	1577.0	1848.9	2246.4	2644.0	3041.6	3439.2	3681.7	3900.3	4039.8
37.5°	1083.5	1384.7	1685.4	1986.6	2475.2	2964.3	3453.0	3941.6	4317.0	4692.4	4756.3
40°	1120.3	1438.4	1756.5	2074.5	2641.8	3209.1	3776.4	4343.6	4768.3	5175.7	5219.2
42.5°	1162.1	1510.4	1859.1	2207.4	2841.7	3476.1	4110.4	4744.8	5236.5	5651.9	5680.8
45°	1207.8	1566.3	1924.4	2282.4	2947.0	3611.1	4275.7	4939.8	5514.2	5996.6	5887.8
47.5°	1229.6	1613.0	1996.4	2379.7	3092.3	3804.3	4516.9	5229.0	5744.3	6169.8	6042.8
50°	1246.5	1668.1	2090.1	2511.7	3258.8	4006.0	4753.2	5500.4	6017.0	6409.7	6210.7
52.5°	1294.0	1765.4	2237.1	2708.4	3503.2	4297.4	5092.2	5886.4	6386.2	6746.9	6467.9
55°	1340.2	1883.1	2426.4	2969.2	3823.9	4679.0	5533.7	6388.4	6885.9	7195.1	6816.2
57.5°	1398.4	1997.2	2595.6	3194.0	4108.2	5022.4	5936.2	6850.4	7336.8	7678.4	7284.9
60°	1383.3	2023.0	2663.1	3302.8	4233.9	5165.0	6096.1	7027.2	7605.1	8024.9	7758.0
62.5°	1324.7	1959.0	2592.9	3227.3	4142.0	5056.2	5970.8	6885.1	7577.6	8146.2	8056.5
65°	1206.1	1795.6	2385.5	2975.0	3848.3	4722.1	5595.5	6468.8	7323.5	8047.1	8079.1
67.5°	1050.1	1547.7	2044.8	2542.3	3357.0	4171.7	4986.0	5800.7	6809.5	7653.6	7748.6
70°	884.9	1258.5	1632.5	2006.1	2723.1	3440.1	4156.6	4873.6	5922.4	6771.8	6951.2
72.5°	709.4	949.8	1189.6	1429.5	1947.0	2464.1	2981.6	3498.7	4421.4	5080.6	5393.8
75°	459.8	569.1	678.3	787.6	1132.3	1476.6	1821.3	2165.6	2778.2	3263.7	3617.8
77.5°	204.8	227.0	248.8	271.0	537.1	803.2	1069.3	1335.3	1601.4	1894.6	1977.7
80°	73.3	83.1	93.3	103.1	233.7	364.7	495.3	625.9	754.7	906.2	943.1
82.5°	30.7	30.7	30.2	29.8	76.4	123.1	169.7	216.3	250.1	287.4	294.5
85°	12.4	9.3	5.8	2.2	9.8	17.8	25.3	32.9	52.9	48.0	88.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

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: P367689

CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	1189.6	1188.7	1187.9	1187.0	1186.1	1170.1	1154.5	1138.6	1123.0	1142.5	1162.1
5°	1444.2	1467.3	1490.4	1513.9	1537.0	1543.7	1550.3	1557.0	1563.7	1577.9	1592.1
7.5°	1537.9	1577.0	1615.6	1654.7	1693.4	1729.4	1764.9	1800.9	1836.9	1828.0	1819.1
10°	1505.5	1576.1	1646.7	1717.8	1788.5	1804.0	1819.5	1835.5	1851.1	1891.5	1931.9
12.5°	1470.4	1555.2	1640.1	1724.9	1809.8	1856.9	1903.5	1950.6	1997.7	2038.6	2079.4
15°	1637.0	1691.2	1745.4	1800.0	1854.2	1895.5	1936.4	1977.7	2018.6	2047.0	2075.0
17.5°	1856.0	1882.6	1909.3	1936.4	1963.0	1995.5	2027.9	2060.3	2092.7	2109.6	2126.5
20°	2087.4	2099.0	2110.5	2122.1	2133.6	2107.9	2082.1	2056.3	2030.6	2046.5	2062.1
22.5°	2319.7	2323.7	2328.2	2332.2	2336.2	2276.2	2216.2	2156.3	2096.3	2071.0	2045.7
25°	2677.3	2648.0	2618.7	2589.4	2560.1	2489.0	2417.9	2346.8	2275.8	2213.1	2150.5
27.5°	3064.7	2965.2	2866.1	2766.6	2667.6	2596.5	2525.4	2454.3	2383.3	2289.1	2194.9
30°	3455.2	3294.8	3134.9	2974.5	2814.6	2730.2	2645.8	2561.0	2476.6	2382.4	2288.7
32.5°	3813.2	3620.4	3427.6	3234.4	3041.6	2899.5	2757.3	2615.2	2473.0	2407.3	2341.5
35°	4110.0	3882.1	3654.2	3425.9	3198.0	3057.2	2916.3	2775.5	2634.7	2537.0	2439.7
37.5°	4617.3	4361.0	4104.6	3848.3	3592.0	3399.7	3207.8	3015.4	2823.1	2757.8	2692.5
40°	5085.1	4762.1	4439.1	4116.2	3793.2	3632.0	3471.2	3309.9	3149.1	3042.1	2935.4
42.5°	5456.9	5116.6	4776.8	4436.5	4096.2	3936.7	3777.7	3618.2	3458.7	3387.2	3316.1
45°	5537.3	5216.5	4896.3	4575.5	4254.8	4162.0	4069.6	3976.7	3884.3	3835.0	3786.1
47.5°	5695.9	5348.0	5000.6	4652.8	4305.0	4263.2	4221.5	4179.3	4137.5	4161.1	4184.6
50°	5784.7	5429.8	5074.8	4719.9	4365.0	4377.0	4388.5	4400.5	4412.5	4579.5	4746.1
52.5°	5957.1	5598.6	5240.1	4881.6	4523.1	4598.6	4673.7	4749.2	4824.3	5054.4	5284.1
55°	6264.9	5912.6	5560.4	5207.7	4855.4	4954.9	5054.4	5154.4	5253.9	5498.2	5742.1
57.5°	6721.1	6371.5	6022.4	5672.8	5323.6	5422.7	5521.7	5620.8	5719.8	5940.6	6161.0
60°	7295.5	6936.6	6578.1	6219.2	5860.7	5898.0	5934.9	5972.2	6009.5	6246.7	6483.5
62.5°	7742.9	7412.8	7083.2	6753.1	6423.5	6382.2	6341.3	6300.0	6259.1	6439.5	6619.4
65°	7846.8	7614.5	7382.6	7150.3	6917.9	6790.9	6664.3	6537.2	6410.2	6483.0	6555.9
67.5°	7549.2	7392.4	7236.0	7079.2	6922.4	6657.2	6392.0	6126.3	5861.1	5822.5	5783.8
70°	6858.4	6772.7	6687.4	6601.6	6516.3	6107.7	5699.4	5290.7	4882.5	4784.3	4686.1
72.5°	5412.0	5465.3	5518.6	5572.4	5625.7	5188.1	4751.0	4313.4	3875.9	3751.5	3627.5
75°	3816.3	3997.1	4177.9	4358.7	4539.5	4140.6	3742.2	3343.2	2944.3	2824.8	2705.8
77.5°	2069.2	2408.1	2747.1	3086.0	3425.0	3095.8	2767.1	2437.9	2108.7	2025.7	1943.0
80°	980.9	1176.3	1371.3	1566.8	1762.2	1688.1	1613.9	1539.2	1465.1	1483.3	1501.5
82.5°	300.7	442.0	583.3	724.5	865.8	876.9	887.6	898.7	909.8	937.3	964.4
85°	100.8	138.2	175.5	212.8	250.1	315.8	381.6	447.8	513.5	470.9	428.7
87.5°	0.0	1.3	2.2	3.6	4.4	13.8	23.1	32.4	41.8	36.0	30.7
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: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

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: P367689

CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	1182.1	1201.6	1202.1	1203.0	1203.4	1203.9	1206.1	1208.3	1211.0	1213.2	1198.5
5°	1606.8	1621.0	1594.8	1568.6	1541.9	1515.7	1539.2	1562.8	1586.3	1609.9	1599.7
7.5°	1809.8	1800.9	1797.8	1795.1	1792.0	1789.3	1798.2	1807.1	1816.0	1824.9	1824.0
10°	1972.4	2012.8	2022.6	2032.3	2042.5	2052.3	2031.9	2011.5	1991.0	1970.6	1962.1
12.5°	2120.3	2161.2	2193.6	2226.0	2258.9	2291.3	2262.0	2233.1	2203.8	2174.9	2147.4
15°	2103.4	2131.4	2158.0	2184.7	2211.4	2238.0	2228.2	2218.9	2209.1	2199.4	2194.9
17.5°	2143.8	2160.7	2154.5	2148.3	2141.6	2135.4	2132.3	2129.6	2126.5	2123.4	2112.7
20°	2078.1	2094.1	2090.1	2086.5	2082.5	2078.5	2075.9	2073.2	2070.5	2067.9	2059.4
22.5°	2020.3	1995.0	1988.4	1982.1	1975.5	1969.3	1970.1	1971.0	1971.5	1972.4	2010.6
25°	2087.9	2025.2	2000.8	1976.4	1951.5	1927.1	1938.2	1948.8	1959.9	1971.0	2026.1
27.5°	2100.3	2006.1	1967.0	1927.9	1888.8	1849.8	1889.7	1929.7	1969.7	2009.7	2099.0
30°	2194.5	2100.7	2046.1	1991.9	1937.3	1883.1	1934.2	1985.2	2036.3	2087.4	2184.3
32.5°	2275.3	2209.6	2170.5	2131.4	2092.3	2053.2	2055.4	2057.2	2059.4	2061.7	2198.0
35°	2342.0	2244.7	2209.1	2174.0	2138.5	2103.4	2156.3	2209.1	2262.0	2314.9	2437.5
37.5°	2627.2	2561.8	2496.5	2431.7	2366.4	2301.5	2343.7	2385.9	2428.6	2470.8	2606.3
40°	2828.4	2721.8	2704.9	2688.5	2671.6	2655.1	2676.9	2698.2	2720.0	2741.8	2860.4
42.5°	3244.6	3173.1	3127.3	3082.0	3036.3	2991.0	3008.3	3025.6	3043.4	3060.7	3173.1
45°	3736.8	3687.5	3657.3	3627.1	3596.5	3566.2	3540.0	3514.3	3488.1	3462.3	3576.5
47.5°	4208.1	4231.7	4298.3	4364.5	4431.2	4497.3	4443.1	4388.9	4334.3	4280.1	4280.6
50°	4913.1	5079.7	5113.5	5146.8	5180.6	5213.9	5098.4	4982.9	4866.9	4751.4	4737.7
52.5°	5514.2	5743.8	5755.8	5767.8	5780.3	5792.3	5745.6	5699.0	5651.9	5605.2	5481.3
55°	5986.4	6230.3	6246.7	6262.7	6279.1	6295.1	6254.3	6213.8	6173.0	6132.1	6006.8
57.5°	6381.7	6602.1	6611.9	6621.2	6631.0	6640.7	6643.8	6646.9	6650.5	6653.6	6484.4
60°	6720.7	6957.9	6938.4	6919.3	6899.7	6880.6	6851.3	6822.0	6792.7	6763.3	6654.1
62.5°	6799.8	6980.1	6949.9	6920.1	6889.9	6860.2	6835.3	6810.9	6786.0	6761.1	6691.4
65°	6628.7	6701.6	6670.5	6639.4	6607.9	6576.8	6560.8	6545.2	6529.2	6513.2	6504.4
67.5°	5744.7	5706.1	5742.9	5779.8	5816.7	5853.6	5903.8	5954.0	6004.6	6054.8	6025.5
70°	4587.5	4489.3	4530.2	4570.6	4611.5	4651.9	4727.9	4803.9	4880.3	4956.2	4935.8
72.5°	3503.2	3378.8	3384.6	3390.3	3396.5	3402.3	3400.1	3398.3	3396.1	3393.9	3429.4
75°	2586.3	2466.8	2410.4	2354.0	2297.5	2241.1	2227.3	2213.6	2199.8	2186.0	2252.2
77.5°	1860.0	1777.3	1738.7	1700.5	1661.8	1623.6	1643.2	1662.7	1682.7	1702.3	1725.4
80°	1520.1	1538.4	1508.6	1479.3	1449.5	1419.7	1442.0	1463.7	1485.9	1508.1	1439.3
82.5°	992.0	1019.1	927.5	836.0	744.5	653.0	708.5	764.1	820.0	875.6	847.1
85°	386.0	343.8	293.2	243.0	192.3	141.7	184.4	227.0	269.6	312.3	340.7
87.5°	24.9	19.5	15.5	11.5	7.1	3.1	6.7	10.2	14.2	17.8	29.8
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: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367689

CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	1184.3	1169.6	1155.4	1127.4	1099.5	1071.5	1043.5	1082.6	1121.7	1160.8	1199.9
5°	1589.9	1579.7	1569.9	1572.6	1575.2	1578.3	1581.0	1586.8	1592.5	1597.9	1603.7
7.5°	1823.5	1822.7	1821.8	1801.3	1780.9	1760.0	1739.6	1749.8	1760.0	1770.2	1780.5
10°	1954.1	1945.7	1937.3	1892.4	1847.5	1802.2	1757.4	1737.8	1717.8	1698.3	1678.7
12.5°	2119.8	2091.9	2064.3	2016.3	1968.8	1920.8	1872.9	1855.1	1836.9	1819.1	1800.9
15°	2190.9	2186.5	2182.5	2148.3	2113.6	2079.4	2044.8	1983.9	1922.6	1861.7	1800.9
17.5°	2102.1	2091.0	2080.3	2134.5	2188.3	2242.5	2296.6	2233.6	2170.5	2107.4	2044.3
20°	2051.0	2042.5	2034.1	2134.9	2235.3	2336.2	2436.6	2408.6	2380.2	2352.2	2324.2
22.5°	2048.8	2087.4	2125.6	2214.0	2302.0	2390.4	2478.3	2526.8	2575.6	2624.0	2672.5
25°	2081.2	2136.7	2191.8	2338.4	2485.0	2632.0	2778.6	2834.2	2889.2	2944.8	2999.9
27.5°	2187.8	2277.1	2365.9	2493.9	2621.8	2750.2	2878.1	2999.4	3121.1	3242.4	3363.7
30°	2280.7	2377.5	2474.3	2626.7	2778.6	2931.0	3082.9	3234.9	3386.8	3538.7	3690.6
32.5°	2334.4	2471.2	2607.6	2792.8	2977.6	3162.9	3348.1	3514.7	3681.3	3847.4	4014.0
35°	2560.1	2683.1	2805.7	3010.5	3215.3	3420.5	3625.3	3831.4	4037.6	4243.2	4449.4
37.5°	2741.8	2877.7	3013.2	3237.1	3460.5	3684.4	3908.3	4193.0	4478.2	4763.0	5047.7
40°	2979.0	3097.6	3216.2	3425.9	3635.1	3844.8	4054.4	4415.6	4776.8	5137.5	5498.6
42.5°	3285.0	3397.4	3509.8	3734.2	3958.5	4182.8	4407.2	4807.0	5206.8	5606.1	6005.9
45°	3690.6	3805.2	3919.4	4098.0	4276.6	4455.1	4633.7	5058.8	5483.5	5908.6	6333.3
47.5°	4281.0	4281.4	4281.9	4410.7	4539.5	4668.8	4797.6	5225.9	5653.7	6081.9	6509.7
50°	4723.9	4709.7	4695.9	4762.5	4828.7	4895.4	4962.0	5356.0	5750.5	6144.5	6538.6
52.5°	5357.8	5233.9	5110.4	5149.9	5189.0	5228.5	5267.6	5601.2	5935.3	6268.9	6602.5
55°	5882.0	5756.7	5631.4	5616.8	5602.1	5587.5	5572.8	5879.8	6186.7	6493.7	6800.7
57.5°	6315.6	6146.3	5977.5	5943.7	5910.4	5876.7	5842.9	6166.7	6490.1	6814.0	7137.4
60°	6545.2	6435.9	6326.7	6304.9	6282.7	6260.9	6238.7	6504.4	6770.0	7035.6	7301.3
62.5°	6622.1	6552.3	6483.0	6523.9	6564.8	6606.1	6646.9	6763.8	6880.2	6997.0	7113.4
65°	6495.9	6487.0	6478.1	6562.1	6645.6	6729.6	6813.5	6784.7	6755.3	6726.5	6697.6
67.5°	5996.6	5967.3	5938.4	6122.8	6306.7	6491.0	6675.4	6535.4	6395.1	6255.1	6115.2
70°	4915.4	4894.5	4874.0	5139.7	5405.3	5671.4	5937.1	5767.4	5597.7	5428.0	5258.3
72.5°	3464.5	3500.1	3535.6	3848.8	4161.5	4474.7	4787.4	4616.4	4445.4	4274.3	4103.3
75°	2318.0	2384.2	2450.3	2772.9	3095.4	3418.3	3740.8	3540.0	3339.2	3138.5	2937.7
77.5°	1748.5	1771.6	1794.7	1998.6	2202.5	2406.8	2610.7	2445.0	2278.9	2113.2	1947.0
80°	1370.4	1301.1	1232.3	1299.4	1366.4	1433.5	1500.6	1401.5	1302.5	1203.9	1104.8
82.5°	818.7	790.3	761.8	798.3	834.3	870.7	907.1	864.5	821.4	778.7	735.6
85°	368.7	397.1	425.1	462.0	498.4	535.3	572.2	512.6	453.1	393.6	334.1
87.5°	41.3	53.3	65.3	80.8	96.4	111.9	127.5	99.5	71.1	43.1	15.1
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: P367689
 CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

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: P367689
CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	939.1	939.1
2.5°	1222.5	1245.2
5°	1603.2	1602.3
7.5°	1753.8	1726.7
10°	1653.9	1629.0
12.5°	1737.4	1673.8
15°	1752.9	1704.9
17.5°	1966.1	1887.5
20°	2223.3	2122.1
22.5°	2533.9	2394.8
25°	2834.6	2669.4
27.5°	3264.6	3165.1
30°	3590.2	3489.4
32.5°	3945.6	3877.2
35°	4381.4	4313.0
37.5°	5065.5	5082.8
40°	5509.3	5519.9
42.5°	6047.2	6088.6
45°	6379.5	6425.7
47.5°	6574.1	6638.5
50°	6642.5	6746.5
52.5°	6730.9	6858.8
55°	6943.2	7085.8
57.5°	7251.1	7364.8
60°	7306.6	7312.0
62.5°	7031.2	6949.0
65°	6610.1	6522.6
67.5°	6062.3	6009.0
70°	5188.1	5117.9
72.5°	3972.7	3842.1
75°	2776.0	2614.3
77.5°	1862.2	1777.3
80°	1107.5	1109.7
82.5°	756.1	776.1
85°	330.1	325.6
87.5°	10.7	5.8
90°	0.0	0.0
92.5°	0.0	0.0
95°	0.0	0.0
97.5°	0.0	0.0
100°	0.0	0.0
102.5°	0.0	0.0
105°	0.0	0.0
107.5°	0.0	0.0
110°	0.0	0.0



REPORT NUMBER: P367689
CATALOG NUMBER: MSA-SA3A-730-U-SLR-HSS

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)