

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: P367690

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

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367690
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-SA3A-730-U-SLR
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS
EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9151 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

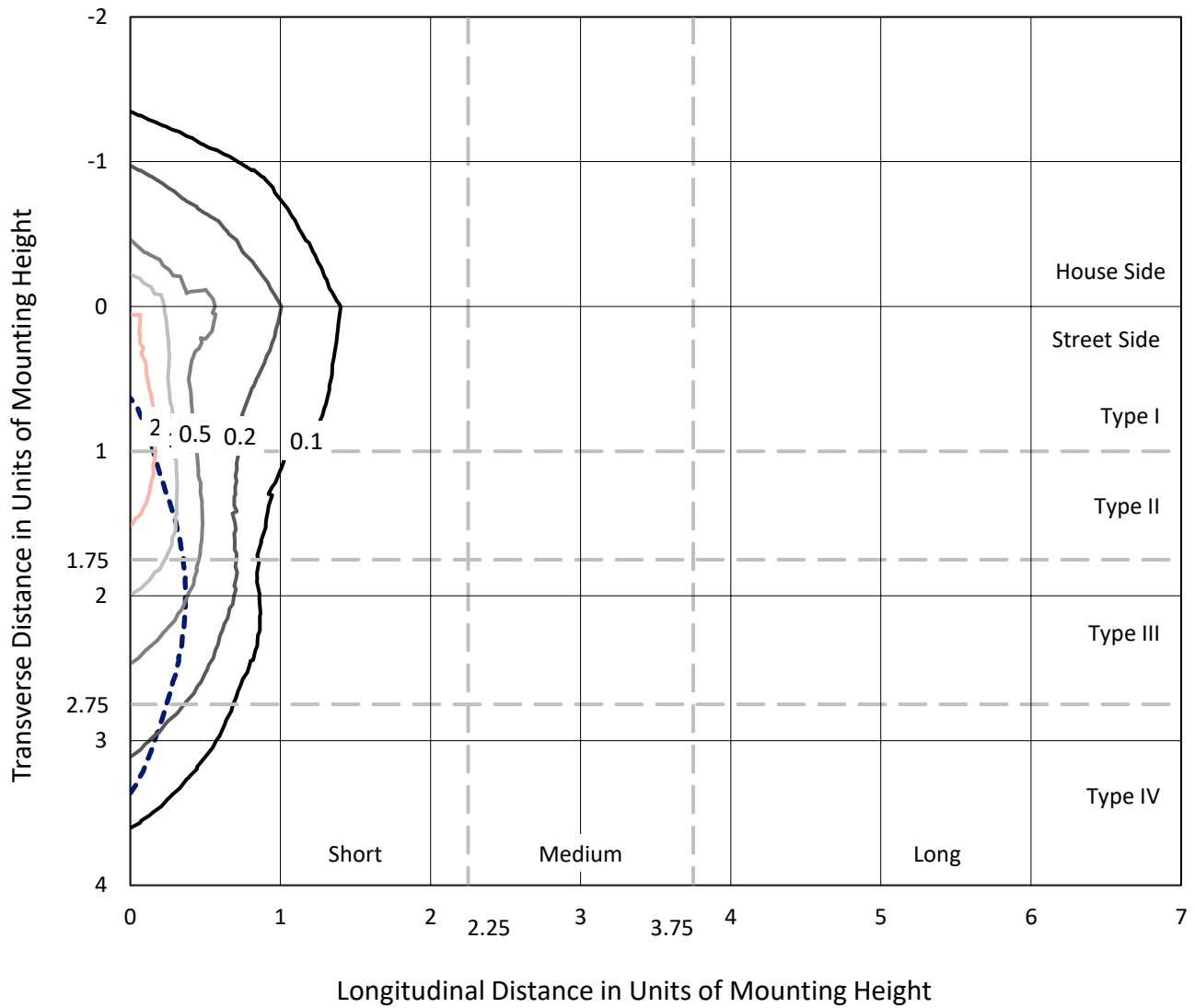
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

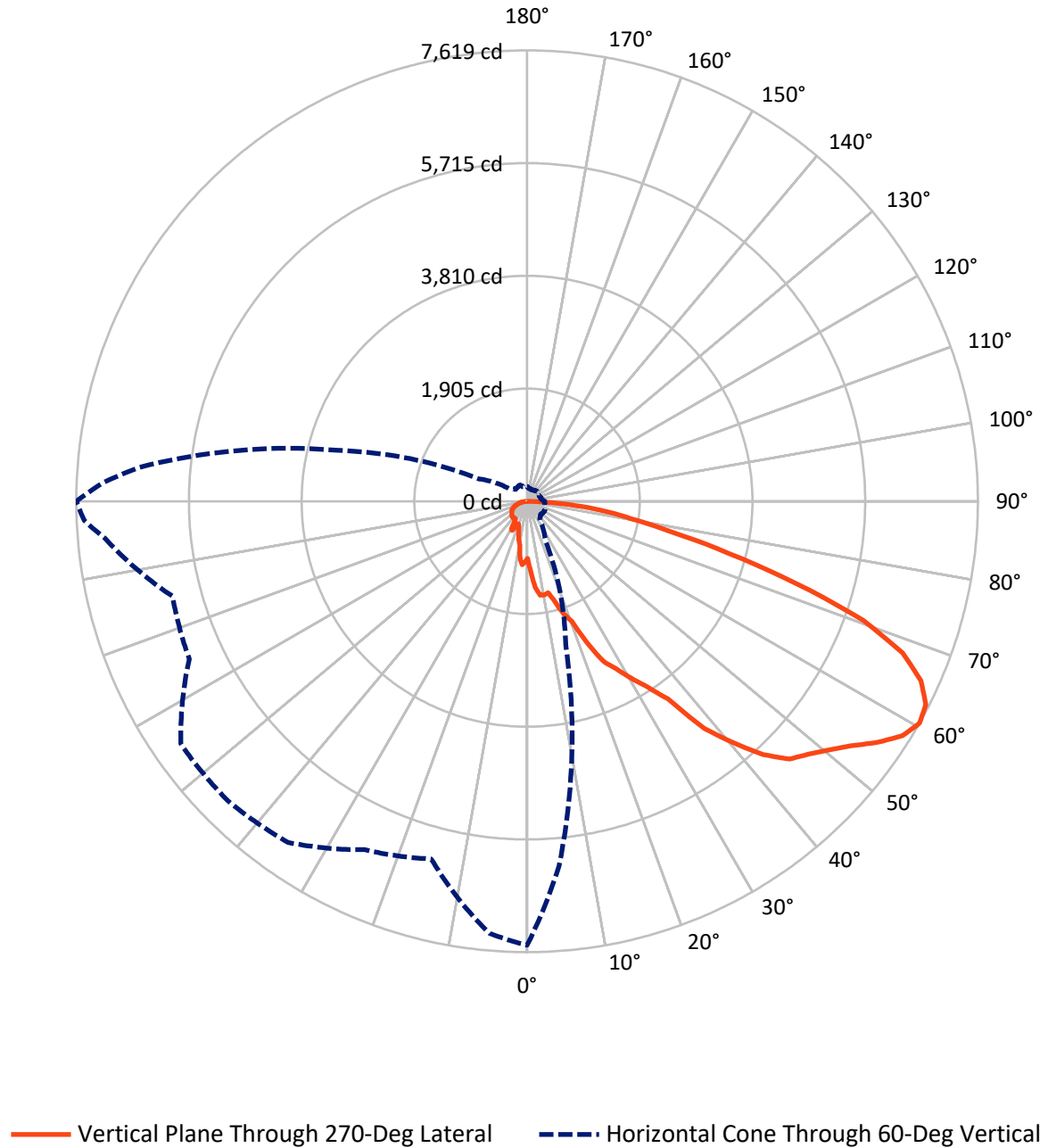
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1772.4	0.0	1772.4
	% Fixture	19.4	0.0	19.4
Street Side	Lumens	7378.6	0.0	7378.6
	% Fixture	80.6	0.0	80.6
Total	Lumens	9151.0	0.0	9151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	1.2
10°-20°	321.5	3.5
20°-30°	567.6	6.2
30°-40°	884.0	9.7
40°-50°	1455.5	15.9
50°-60°	2077.4	22.7
60°-70°	2202.8	24.1
70°-80°	1216.7	13.3
80°-90°	314.8	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°	9151.0	100.0
0°-180°	9151.0	100.0

Coefficient of Utilization



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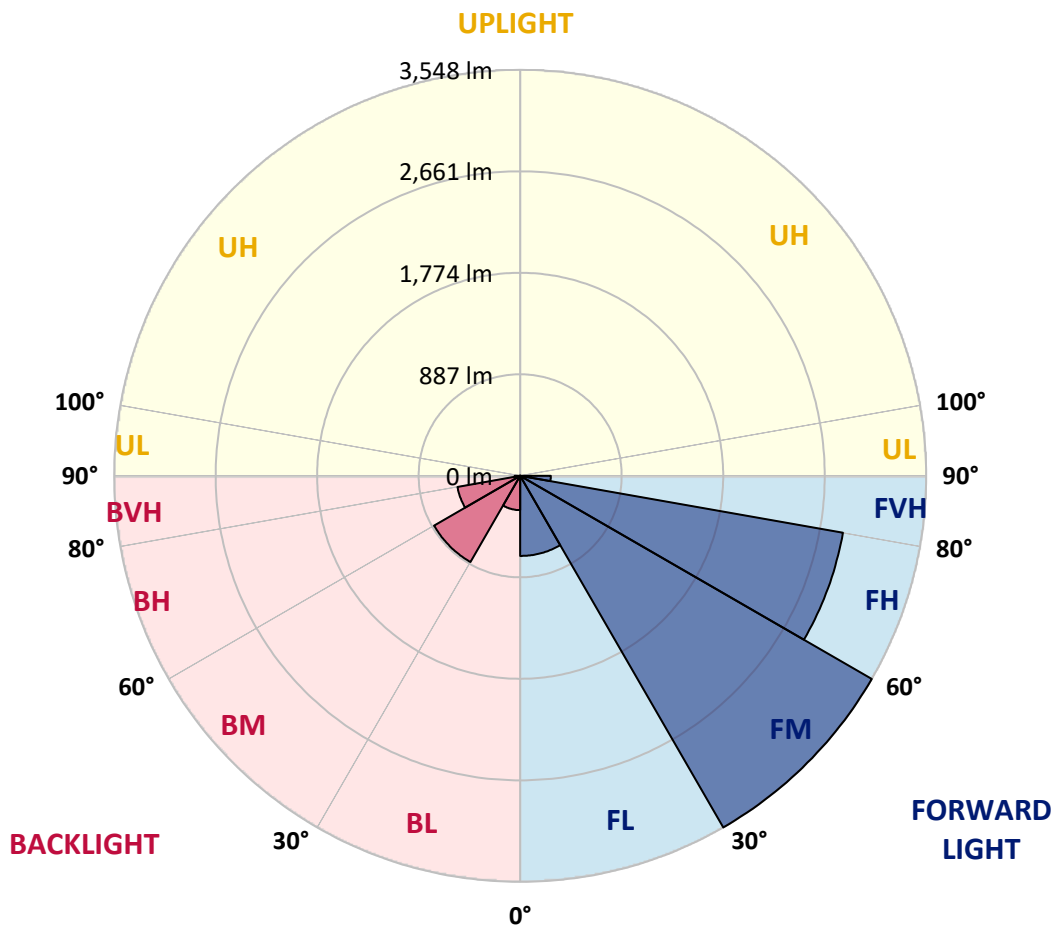
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	700.2	7.7			
FM (30°-60°)	3547.5	38.8			
FH (60°-80°)	2863.4	31.3			G2/5000
FVH (80°-90°)	267.6	2.9			G3/500
BL (0°-30°)	299.6	3.3	B1/500		
BM (30°-60°)	869.4	9.5	B1/1000		
BH (60°-80°)	556.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	47.2	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°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	1292.5	1300.5	1308.1	1293.0	1277.9	1262.3	1247.2	1224.6	1201.5	1178.8	1155.7
5°	1552.4	1523.1	1493.3	1481.3	1469.8	1457.8	1445.8	1434.7	1423.6	1412.0	1400.9
7.5°	1633.7	1591.9	1549.7	1532.0	1514.2	1496.0	1478.2	1438.2	1398.3	1357.8	1317.9
10°	1544.4	1500.9	1456.9	1439.6	1421.8	1404.5	1386.7	1337.9	1289.4	1240.6	1191.7
12.5°	1616.4	1571.9	1527.1	1472.0	1416.9	1361.4	1306.3	1279.2	1252.1	1224.6	1197.5
15°	1685.6	1625.7	1565.3	1510.2	1455.1	1399.6	1344.5	1290.3	1236.1	1181.9	1127.8
17.5°	1938.8	1838.9	1738.9	1639.4	1539.5	1440.0	1340.1	1277.4	1214.4	1151.7	1088.7
20°	2247.5	2108.5	1969.0	1818.0	1666.5	1515.5	1364.1	1285.0	1206.4	1127.3	1048.3
22.5°	2614.9	2439.4	2264.0	2073.4	1882.9	1691.9	1501.3	1386.7	1272.1	1157.1	1042.5
25°	2906.7	2737.9	2569.1	2327.5	2085.8	1844.2	1602.6	1472.4	1342.3	1211.7	1081.6
27.5°	3190.1	2921.3	2652.2	2375.4	2099.2	1822.4	1545.7	1425.4	1305.0	1184.6	1064.2
30°	3429.5	3216.3	3003.1	2642.0	2280.8	1919.3	1558.2	1410.3	1262.3	1114.4	966.5
32.5°	3779.9	3475.7	3171.0	2794.3	2417.6	2041.0	1664.3	1475.1	1285.9	1096.7	907.4
35°	4189.9	3873.6	3557.4	3091.5	2626.0	2160.0	1694.1	1493.8	1293.0	1092.7	891.9
37.5°	4954.3	4396.9	3839.0	3330.4	2821.8	2312.8	1804.2	1571.5	1338.7	1105.6	872.8
40°	5375.8	4860.6	4345.4	3711.5	3077.7	2443.4	1809.6	1571.5	1333.0	1094.9	856.4
42.5°	5937.7	5286.1	4634.1	3948.7	3263.8	2578.4	1893.1	1629.2	1365.4	1101.1	837.3
45°	6280.2	5554.0	4827.3	4094.8	3362.4	2630.0	1897.5	1629.7	1361.8	1094.0	826.2
47.5°	6500.9	5803.6	5105.8	4317.4	3529.0	2740.1	1951.7	1667.4	1382.7	1098.4	813.7
50°	6710.1	6019.5	5328.3	4509.7	3691.5	2872.9	2054.3	1743.8	1433.4	1122.4	812.0
52.5°	6966.9	6330.8	5694.3	4816.2	3937.6	3059.5	2180.9	1842.9	1504.9	1166.8	828.8
55°	7340.4	6713.7	6086.5	5144.0	4201.0	3258.5	2315.5	1940.2	1565.3	1189.9	814.6
57.5°	7582.5	6946.9	6311.3	5350.1	4388.9	3427.3	2466.1	2050.3	1634.6	1218.4	802.6
60°	7502.1	6846.5	6190.5	5274.1	4357.8	3441.5	2525.1	2076.1	1627.5	1178.4	729.3
62.5°	7146.8	6449.9	5753.0	4932.1	4111.7	3290.9	2470.1	2013.4	1557.3	1100.7	644.1
65°	6650.2	5929.7	5208.8	4468.4	3728.0	2987.5	2247.1	1832.7	1417.8	1003.4	588.5
67.5°	6040.8	5289.7	4538.1	3882.5	3226.9	2570.9	1915.3	1568.8	1222.8	876.4	529.9
70°	5276.4	4538.1	3799.9	3232.7	2665.5	2098.3	1531.1	1270.3	1010.1	749.3	488.6
72.5°	4241.0	3604.0	2967.1	2520.7	2074.3	1627.9	1181.5	1000.3	819.5	638.3	457.1
75°	3016.4	2642.0	2267.5	1920.2	1572.8	1225.0	877.7	760.4	643.2	525.9	408.6
77.5°	2143.6	1922.8	1702.1	1429.8	1157.5	885.2	613.0	544.1	475.7	406.9	338.0
80°	1584.8	1400.5	1216.2	1010.9	805.7	600.5	395.3	361.6	328.2	294.5	260.7
82.5°	1043.4	960.3	876.8	714.2	551.7	389.1	226.5	214.1	201.7	189.2	176.8
85°	467.3	493.5	519.2	419.7	319.8	220.3	120.4	114.6	108.8	103.0	97.3
87.5°	44.9	66.2	87.5	75.1	62.2	49.7	36.9	36.4	36.4	36.0	35.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	1162.0	1168.2	1174.4	1180.6	1174.0	1167.3	1160.2	1153.5	1145.1	1136.6	1127.8
5°	1382.3	1363.2	1344.5	1325.4	1297.0	1268.6	1239.7	1211.3	1207.7	1203.7	1200.2
7.5°	1282.8	1248.1	1213.0	1178.0	1133.5	1089.6	1045.1	1000.7	987.4	974.1	960.8
10°	1168.2	1144.2	1120.7	1096.7	1069.1	1041.6	1013.6	986.1	949.6	912.8	876.4
12.5°	1158.4	1119.3	1079.8	1040.7	1023.8	1006.9	990.1	973.2	941.2	909.2	876.8
15°	1096.2	1064.2	1032.7	1000.7	976.3	951.9	927.4	903.0	877.2	851.0	825.3
17.5°	1052.3	1015.8	979.4	943.0	915.0	887.0	858.6	830.6	799.5	768.0	736.9
20°	1006.5	965.2	923.4	881.7	846.2	811.1	775.5	740.0	705.8	672.0	637.8
22.5°	987.8	933.2	878.6	823.9	786.6	748.9	711.6	673.8	642.3	610.7	579.2
25°	1016.3	951.4	886.1	820.8	770.6	720.0	669.8	619.2	593.0	566.8	540.1
27.5°	983.0	901.2	819.9	738.2	684.5	630.3	576.5	522.3	518.4	514.4	509.9
30°	880.8	795.1	709.3	623.6	574.3	524.6	475.3	425.5	416.2	406.4	397.1
32.5°	819.9	732.4	644.9	557.4	513.5	469.0	425.1	380.7	370.0	359.3	348.7
35°	796.8	701.8	606.7	511.7	473.9	436.2	398.4	360.7	353.1	346.0	338.5
37.5°	778.2	684.0	589.4	494.8	458.4	422.0	385.1	348.7	342.9	337.1	331.4
40°	760.4	664.9	569.0	473.0	440.6	408.6	376.2	343.8	340.2	336.7	332.7
42.5°	744.4	651.6	558.3	465.5	436.6	408.2	379.3	350.5	346.9	343.3	339.8
45°	735.6	644.9	554.3	463.7	442.8	422.0	400.6	379.8	371.3	362.9	354.0
47.5°	728.9	644.1	559.2	474.4	452.6	430.8	409.1	387.3	379.8	372.2	364.2
50°	730.2	648.9	567.2	485.5	459.3	432.6	406.4	379.8	378.9	378.0	377.1
52.5°	742.2	656.0	569.4	482.8	454.4	426.0	397.1	368.7	374.4	379.8	385.5
55°	724.9	635.2	545.0	455.3	428.2	401.5	374.4	347.3	354.9	362.0	369.6
57.5°	705.3	608.1	510.8	413.5	393.1	372.7	351.8	331.4	339.3	347.8	355.8
60°	640.5	551.7	462.8	374.0	360.2	346.5	332.7	318.9	322.5	326.0	329.6
62.5°	569.4	494.4	419.7	344.7	334.0	322.9	312.3	301.2	301.2	301.6	301.6
65°	524.1	459.7	395.3	330.9	318.9	306.9	294.5	282.5	280.7	278.9	277.2
67.5°	478.8	428.2	377.1	326.0	308.7	291.8	274.5	257.2	255.0	253.2	251.0
70°	443.3	398.0	352.7	307.4	287.8	268.7	249.2	229.6	227.9	226.5	224.8
72.5°	414.4	372.2	329.6	286.9	266.5	245.6	225.2	204.3	203.0	201.7	199.9
75°	370.9	333.6	295.8	258.1	238.1	218.5	198.5	178.6	176.8	175.4	173.7
77.5°	306.9	275.4	244.3	212.8	197.2	182.1	166.6	151.0	150.1	149.2	147.9
80°	236.3	211.9	187.0	162.6	152.4	141.7	131.5	120.8	120.4	119.9	119.0
82.5°	162.1	147.5	132.8	118.2	110.6	102.6	95.1	87.1	87.5	87.9	88.4
85°	92.4	87.1	82.2	76.8	70.6	64.8	58.6	52.4	53.7	55.1	56.0
87.5°	33.8	32.0	30.2	28.4	25.3	22.7	19.5	16.4	17.3	18.7	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: MSA-SA3A-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: P367690
 CATALOG NUMBER: MSA-SA3A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	1119.3	1106.0	1092.7	1079.3	1066.0	1038.5	1011.4	983.8	956.3	973.2	990.5
5°	1196.2	1173.5	1150.4	1127.8	1104.7	1091.8	1078.9	1066.0	1053.1	1059.8	1066.9
7.5°	947.4	934.1	920.3	907.0	893.2	887.5	882.1	876.4	870.6	887.0	903.5
10°	839.5	820.8	802.2	783.1	764.4	753.3	742.2	731.1	720.0	724.4	728.9
12.5°	844.8	817.3	789.7	762.2	734.7	718.2	701.8	685.4	668.9	672.9	676.9
15°	799.1	770.6	742.2	713.8	685.4	666.3	646.7	627.6	608.1	601.4	594.3
17.5°	705.3	674.3	643.2	612.1	581.0	568.1	555.2	542.3	529.5	522.3	515.2
20°	603.6	574.8	545.9	517.0	488.1	479.3	470.4	461.1	452.2	447.7	442.8
22.5°	547.7	529.9	511.7	493.9	475.7	465.5	455.7	445.5	435.3	430.4	425.1
25°	513.9	517.5	521.5	525.0	528.6	524.1	519.2	514.8	509.9	511.7	513.0
27.5°	505.9	513.5	521.5	529.0	536.6	540.6	544.6	548.6	552.6	553.9	555.2
30°	387.3	391.3	394.9	398.9	402.4	413.5	424.6	435.3	446.4	463.7	481.5
32.5°	338.0	336.7	335.4	333.6	332.2	334.9	337.6	339.8	342.5	348.7	355.3
35°	330.9	327.8	324.2	321.1	317.6	318.9	320.3	321.6	322.9	327.8	332.7
37.5°	325.6	324.2	323.4	322.0	320.7	323.8	326.5	329.6	332.2	336.2	340.2
40°	329.1	328.7	328.2	327.4	326.9	328.7	330.5	332.2	334.0	339.3	344.7
42.5°	336.2	336.2	335.8	335.8	335.4	337.1	338.5	340.2	341.6	344.7	347.8
45°	345.6	344.7	344.2	343.3	342.5	342.0	342.0	341.6	341.1	342.9	345.1
47.5°	356.7	353.6	350.0	346.9	343.3	342.5	341.1	340.2	338.9	339.8	340.7
50°	376.2	367.8	359.8	351.3	342.9	340.7	338.5	336.2	334.0	333.6	333.6
52.5°	390.9	378.4	366.0	353.6	341.1	337.1	333.1	329.1	325.1	324.2	323.8
55°	376.7	367.3	358.4	349.1	339.8	334.0	327.8	322.0	315.8	314.5	313.1
57.5°	363.8	358.0	352.2	346.5	340.7	334.9	328.7	322.9	316.7	313.6	310.5
60°	333.1	333.1	333.6	333.6	333.6	327.4	321.1	314.9	308.7	305.6	302.9
62.5°	301.6	306.5	310.9	315.8	320.3	311.8	302.9	294.5	285.6	283.4	281.6
65°	275.4	276.7	278.5	279.8	281.2	274.5	267.8	261.2	254.5	253.2	251.4
67.5°	248.7	248.3	247.8	247.0	246.5	242.5	238.1	234.1	229.6	227.9	226.1
70°	223.0	222.5	222.1	221.2	220.8	217.2	213.6	210.1	206.5	205.2	203.9
72.5°	198.5	198.1	197.2	196.8	195.9	192.8	190.1	187.0	183.9	182.1	180.3
75°	171.9	171.0	170.1	169.2	168.3	165.7	163.0	159.9	157.2	155.5	153.7
77.5°	147.0	145.7	144.4	142.6	141.2	139.0	136.4	134.1	131.5	129.3	127.5
80°	118.6	117.7	116.8	115.5	114.6	112.4	110.2	107.5	105.3	102.6	100.4
82.5°	88.8	88.4	87.5	87.1	86.2	83.9	81.7	79.5	77.3	74.6	72.0
85°	57.3	56.9	56.4	56.0	55.5	53.7	52.4	50.6	48.9	46.2	44.0
87.5°	20.4	19.5	19.1	18.2	17.3	16.9	16.0	15.5	14.7	13.3	12.0
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: P367690
 CATALOG NUMBER: MSA-SA3A-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: P367690

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

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	1007.4	1024.3	1024.7	1024.7	1032.7	1040.3	1024.7	1009.2	993.2	977.6	962.1
5°	1073.6	1080.2	1078.5	1076.2	1066.5	1056.7	1046.5	1036.3	1026.0	1015.8	1016.3
7.5°	919.9	936.3	949.6	962.5	950.1	937.7	931.0	924.3	917.7	911.0	910.1
10°	732.9	737.3	742.7	747.5	740.0	732.0	745.3	758.7	771.5	784.9	770.2
12.5°	680.9	684.9	675.6	665.8	662.7	659.6	656.5	652.9	649.8	646.3	644.5
15°	587.6	580.5	573.4	565.9	564.1	561.9	559.7	557.0	554.8	552.1	544.1
17.5°	508.1	501.0	489.0	476.6	471.7	466.4	465.1	463.7	461.9	460.6	453.1
20°	438.4	433.5	430.4	426.9	422.0	417.1	412.2	407.3	402.0	397.1	390.0
22.5°	420.2	414.9	410.9	406.4	405.5	404.6	395.8	386.4	377.5	368.2	364.2
25°	514.8	516.1	491.7	466.8	464.6	462.4	446.4	430.0	414.0	397.5	383.8
27.5°	556.1	557.4	556.6	555.7	548.6	541.0	513.9	486.4	459.3	431.7	412.2
30°	498.8	516.1	522.8	529.5	524.6	519.2	490.8	462.8	434.4	406.0	393.1
32.5°	361.6	367.8	378.9	389.5	395.3	400.6	391.8	382.9	374.0	365.1	362.9
35°	337.1	342.0	344.2	346.5	342.9	339.3	332.7	326.0	318.9	312.3	310.9
37.5°	343.8	347.8	352.2	356.7	346.9	336.7	329.1	322.0	314.5	306.9	300.7
40°	350.0	355.3	358.0	360.7	350.9	341.1	331.8	322.9	313.6	304.3	298.0
42.5°	350.9	354.0	358.9	363.8	350.0	335.8	327.4	318.5	310.0	301.2	294.9
45°	346.9	348.7	353.1	357.6	341.6	325.1	317.6	309.6	302.0	294.0	288.7
47.5°	341.1	342.0	345.6	348.7	331.8	314.5	307.4	300.3	292.7	285.6	280.3
50°	333.1	332.7	335.4	337.6	320.3	302.9	295.8	289.2	282.1	274.9	270.5
52.5°	322.9	322.0	324.7	326.9	308.7	290.5	284.3	278.5	272.3	266.1	262.5
55°	311.4	310.0	312.3	314.5	296.7	278.5	273.2	267.4	262.1	256.3	253.2
57.5°	306.9	303.8	305.1	306.5	286.5	266.5	261.2	255.8	250.5	245.2	243.0
60°	299.8	296.7	298.0	298.9	277.6	255.8	251.0	245.6	240.7	235.4	233.2
62.5°	279.4	277.2	278.9	280.7	261.6	242.1	237.6	233.6	229.2	224.8	221.6
65°	250.1	248.3	251.8	255.4	239.0	222.5	219.9	217.2	214.1	211.4	208.3
67.5°	224.3	222.5	226.1	229.6	217.6	205.7	203.0	200.3	197.7	195.0	193.2
70°	202.5	201.2	204.3	207.4	197.2	187.0	184.3	182.1	179.4	176.8	175.4
72.5°	178.1	176.3	180.3	183.9	175.4	166.6	164.3	161.7	159.5	156.8	155.9
75°	151.9	150.1	153.7	156.8	151.0	144.8	142.6	140.4	138.1	135.9	135.5
77.5°	125.3	123.0	126.6	129.7	126.1	122.1	120.4	118.2	116.4	114.2	114.2
80°	97.7	95.1	97.7	99.9	98.6	97.3	95.9	94.2	92.8	91.1	91.5
82.5°	69.3	66.6	68.0	69.3	70.2	71.1	71.1	71.1	71.1	71.1	71.1
85°	41.3	38.6	39.1	39.5	40.9	42.2	42.6	43.1	43.5	44.0	44.4
87.5°	10.7	9.3	8.4	7.1	8.4	9.3	10.2	10.7	11.5	12.0	12.0
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: P367690
 CATALOG NUMBER: MSA-SA3A-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: P367690
 CATALOG NUMBER: MSA-SA3A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	946.5	930.5	915.0	924.8	934.1	943.9	953.2	953.6	953.6	954.1	954.1
5°	1017.2	1017.6	1018.0	1008.7	999.8	990.5	981.2	976.3	971.4	966.1	961.2
7.5°	908.8	907.9	906.6	897.7	888.8	879.9	871.0	849.7	827.9	806.6	784.9
10°	755.1	740.4	725.3	721.8	718.7	715.1	711.6	705.8	700.5	694.7	688.9
12.5°	642.7	640.9	639.2	629.8	620.5	610.7	601.4	601.4	601.4	601.4	601.4
15°	535.7	527.7	519.2	514.8	509.9	505.5	500.6	498.4	496.1	493.9	491.7
17.5°	445.1	437.5	429.5	428.6	427.7	426.9	426.0	423.7	421.5	419.3	417.1
20°	382.9	375.8	368.7	371.3	374.0	376.2	378.9	376.7	374.4	371.8	369.6
22.5°	359.8	355.8	351.3	349.1	346.9	344.2	342.0	342.0	342.5	342.5	342.5
25°	370.4	356.7	342.9	336.2	329.6	322.5	315.8	313.1	310.9	308.3	305.6
27.5°	392.7	372.7	353.1	341.6	330.0	318.5	306.9	302.0	296.7	291.8	286.5
30°	379.8	366.9	353.6	340.2	326.9	313.6	300.3	294.0	287.8	281.2	274.9
32.5°	360.7	358.0	355.8	343.3	330.9	318.0	305.6	302.9	300.7	298.0	295.4
35°	309.1	307.8	306.0	302.9	299.8	296.7	293.6	290.0	286.5	282.9	279.4
37.5°	294.9	288.7	282.5	281.2	279.8	278.5	277.2	275.8	274.5	272.7	271.4
40°	291.8	285.6	279.4	277.2	274.9	272.3	270.1	270.5	271.4	271.8	272.3
42.5°	288.3	282.1	275.4	273.6	271.8	270.1	268.3	268.7	269.6	270.1	270.5
45°	283.8	278.5	273.2	270.1	267.4	264.3	261.2	263.8	266.5	268.7	271.4
47.5°	274.9	269.2	263.8	262.1	260.3	258.1	256.3	259.0	261.6	263.8	266.5
50°	265.6	261.2	256.3	255.8	255.4	254.5	254.1	255.8	257.6	259.4	261.2
52.5°	258.5	255.0	251.0	251.0	250.5	250.5	250.1	251.8	253.6	255.0	256.7
55°	250.5	247.4	244.3	244.7	245.6	246.1	246.5	248.3	250.5	252.3	254.1
57.5°	240.3	238.1	235.4	237.2	238.5	240.3	241.6	243.0	244.7	246.1	247.4
60°	230.5	228.3	225.6	227.4	229.6	231.4	233.2	234.5	235.9	237.2	238.5
62.5°	218.5	215.0	211.9	214.5	216.8	219.4	221.6	222.5	223.9	224.8	225.6
65°	205.7	202.5	199.4	201.2	203.0	204.3	206.1	207.4	208.8	210.1	211.4
67.5°	191.0	189.2	187.0	188.3	189.7	191.0	192.3	192.8	192.8	193.2	193.2
70°	173.7	172.3	170.6	171.5	172.8	173.7	174.6	174.6	174.6	174.1	174.1
72.5°	155.5	154.6	153.7	154.1	155.0	155.5	155.9	155.5	155.0	154.6	154.1
75°	135.0	134.6	134.1	134.6	135.5	135.9	136.4	135.9	135.0	134.6	133.7
77.5°	114.6	114.6	114.6	114.6	115.0	115.0	115.0	114.2	113.3	112.4	111.5
80°	91.9	92.4	92.8	92.8	92.8	92.8	92.8	91.9	91.1	89.7	88.8
82.5°	71.1	71.1	71.1	71.1	71.5	71.5	71.5	69.3	67.5	65.3	63.1
85°	44.4	44.9	44.9	45.3	45.8	45.8	46.2	43.1	40.4	37.3	34.2
87.5°	12.0	12.0	12.0	12.0	12.0	11.5	11.5	8.9	5.8	3.1	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



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CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367690

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

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	956.8	959.4	961.6	964.3	964.7	965.2	965.2	965.6	956.3	947.0	937.2
5°	967.9	974.1	980.7	987.0	985.6	984.3	983.0	981.6	979.0	976.7	974.1
7.5°	780.0	775.5	770.6	765.8	769.8	773.8	777.8	781.7	783.5	785.3	786.6
10°	677.8	666.7	655.6	644.5	638.3	631.6	625.4	618.7	617.8	617.4	616.5
12.5°	589.9	577.9	566.3	554.3	550.8	546.8	543.2	539.2	542.8	546.3	549.4
15°	486.8	482.4	477.5	472.6	476.6	480.6	484.6	488.6	492.1	495.3	498.8
17.5°	414.9	413.1	410.9	408.6	412.2	416.2	419.7	423.3	431.3	439.3	447.3
20°	367.8	366.4	364.7	362.9	361.6	359.8	358.4	356.7	368.2	379.3	390.9
22.5°	339.8	337.1	334.5	331.8	332.2	332.7	332.7	333.1	342.5	352.2	361.6
25°	304.7	303.8	302.9	302.0	304.7	307.4	309.6	312.3	320.7	329.1	337.1
27.5°	286.9	287.4	287.8	288.3	291.8	295.8	299.4	302.9	308.7	314.5	320.3
30°	277.2	279.8	282.1	284.3	285.6	286.9	288.3	289.6	295.4	300.7	306.5
32.5°	291.8	288.3	284.3	280.7	282.5	284.7	286.5	288.3	293.6	298.9	304.3
35°	278.1	276.3	274.9	273.2	275.4	277.6	279.4	281.6	286.5	290.9	295.8
37.5°	270.9	270.5	270.1	269.6	270.9	272.3	273.2	274.5	278.9	283.4	287.4
40°	270.5	268.3	266.5	264.3	265.6	266.9	267.8	269.2	274.5	279.8	285.2
42.5°	267.8	265.2	262.1	259.4	260.7	262.5	263.8	265.2	270.9	276.3	282.1
45°	267.4	263.4	259.0	255.0	256.7	258.5	260.3	262.1	266.5	270.9	274.9
47.5°	262.5	258.5	254.5	250.5	251.4	252.3	252.7	253.6	257.6	261.2	265.2
50°	258.5	255.4	252.7	249.6	248.3	247.4	246.1	244.7	247.8	251.0	254.1
52.5°	253.6	250.5	247.0	243.9	242.1	240.3	238.5	236.7	239.4	241.6	244.3
55°	250.5	246.5	243.0	239.0	236.7	234.5	232.3	230.1	231.9	233.2	235.0
57.5°	243.9	240.3	236.3	232.7	230.1	227.4	224.3	221.6	222.5	223.4	224.3
60°	235.0	231.0	227.4	223.4	220.3	217.2	213.6	210.5	211.0	211.9	212.3
62.5°	222.1	218.5	214.5	211.0	207.4	204.3	200.8	197.2	198.1	198.5	199.4
65°	207.9	203.9	200.3	196.3	193.2	190.1	186.6	183.4	184.3	185.2	185.7
67.5°	190.6	187.4	184.8	181.7	179.0	175.9	173.2	170.1	170.6	171.0	171.5
70°	171.9	169.2	167.0	164.3	162.1	159.9	157.7	155.5	155.5	155.9	155.9
72.5°	151.9	149.7	147.5	145.2	143.0	141.2	139.0	136.8	137.7	138.6	139.0
75°	131.5	129.7	127.5	125.3	123.5	121.7	119.5	117.7	118.6	119.5	119.9
77.5°	110.2	108.8	107.0	105.7	103.9	102.2	99.9	98.2	99.1	99.9	100.4
80°	87.9	87.1	85.7	84.8	83.1	81.3	79.5	77.7	78.2	78.2	78.6
82.5°	63.5	64.0	64.0	64.4	63.1	61.3	60.0	58.2	58.2	58.2	57.7
85°	35.5	37.3	38.6	40.0	38.6	37.3	36.0	34.6	34.2	34.2	33.8
87.5°	1.3	2.2	3.6	4.4	4.0	3.6	2.7	2.2	2.7	3.1	3.1
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: P367690
 CATALOG NUMBER: MSA-SA3A-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: P367690
 CATALOG NUMBER: MSA-SA3A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	927.9	935.4	943.0	950.5	958.1	969.6	981.2	993.2	1005.2	998.5	991.4
5°	971.4	975.9	980.7	985.2	989.6	1002.5	1014.9	1030.5	1045.6	1043.8	1041.6
7.5°	788.4	794.6	800.8	806.6	812.8	832.4	851.9	868.4	884.8	882.6	879.9
10°	615.6	628.5	641.8	654.7	667.6	683.6	699.1	712.9	726.7	749.8	772.4
12.5°	553.0	573.0	593.0	613.0	632.9	644.5	655.6	673.4	691.1	703.6	716.5
15°	501.9	520.6	539.2	557.9	576.5	577.4	578.3	597.0	615.6	626.3	636.5
17.5°	455.3	465.5	475.7	485.5	495.7	492.1	488.6	497.5	505.9	510.4	515.2
20°	402.0	409.1	416.2	423.3	430.4	435.3	439.7	445.1	449.9	445.5	440.6
22.5°	370.9	381.5	392.7	403.3	414.0	417.1	419.7	416.6	413.5	412.2	410.9
25°	345.6	358.4	371.8	384.7	397.5	403.8	410.0	412.6	414.9	410.0	405.1
27.5°	326.0	341.6	356.7	372.2	387.3	398.4	409.5	412.6	415.3	411.8	407.8
30°	311.8	328.7	345.6	362.4	379.3	396.2	412.6	427.3	441.5	440.2	438.8
32.5°	309.6	321.1	332.7	344.2	355.8	366.4	376.7	377.5	378.0	374.4	370.4
35°	300.3	307.8	315.4	322.9	330.5	337.1	343.3	342.5	341.6	338.0	334.5
37.5°	291.8	299.4	307.4	314.9	322.5	334.0	345.1	342.9	340.2	336.7	333.1
40°	290.5	298.9	307.4	315.4	323.8	334.5	345.1	342.9	340.7	336.2	331.8
42.5°	287.4	295.8	303.8	312.3	320.3	333.1	345.6	341.6	337.1	333.6	330.0
45°	279.4	286.9	294.5	302.0	309.6	323.4	337.1	332.2	327.4	326.0	324.2
47.5°	268.7	276.3	283.8	291.4	298.9	312.7	326.0	322.0	317.6	317.1	316.3
50°	257.2	264.3	271.8	278.9	286.0	299.8	313.1	309.6	306.0	306.5	306.5
52.5°	246.5	253.2	259.4	266.1	272.3	286.0	299.4	296.7	293.6	294.5	294.9
55°	236.3	241.6	247.0	252.3	257.6	270.9	284.3	280.3	276.3	277.6	278.9
57.5°	225.2	229.6	234.1	238.1	242.5	255.8	268.7	264.3	259.4	261.6	263.4
60°	212.8	216.8	220.8	224.3	228.3	240.3	251.8	247.8	243.4	246.5	249.2
62.5°	199.9	203.0	206.1	209.2	212.3	223.4	234.5	231.4	228.3	231.9	235.0
65°	186.6	188.8	191.4	193.7	195.9	206.5	216.8	214.5	212.3	215.4	218.5
67.5°	171.9	173.7	175.9	177.7	179.4	189.2	199.0	196.8	194.1	196.8	199.0
70°	155.9	157.7	159.0	160.8	162.1	171.0	179.9	176.8	173.2	175.9	178.1
72.5°	139.9	140.8	142.1	143.0	143.9	150.6	157.2	154.6	151.9	154.6	156.8
75°	120.8	121.7	122.6	123.5	124.4	130.1	135.5	132.4	128.8	131.5	134.1
77.5°	101.3	101.7	102.6	103.0	103.5	107.5	111.0	107.9	104.4	107.5	110.6
80°	78.6	79.1	79.5	79.5	80.0	81.3	82.6	80.4	77.7	81.7	85.7
82.5°	57.7	57.3	57.3	56.9	56.4	56.4	56.0	54.6	52.9	56.4	60.0
85°	33.3	32.9	32.0	31.5	30.6	29.3	28.0	27.5	27.1	30.2	33.3
87.5°	3.6	3.1	2.2	1.8	0.9	0.4	0.0	0.0	0.0	1.8	4.0
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: P367690
 CATALOG NUMBER: MSA-SA3A-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: P367690

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

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	984.7	977.6	971.0	964.3	957.6	951.0	963.4	975.9	988.3	1000.7	1011.8
5°	1039.8	1037.6	1031.8	1026.5	1020.7	1014.9	1018.0	1021.6	1024.7	1027.8	1034.5
7.5°	877.7	875.0	887.5	899.5	911.9	923.9	927.0	929.7	932.8	935.4	933.7
10°	795.5	818.2	823.9	829.3	835.0	840.4	849.3	858.1	866.6	875.5	880.4
12.5°	728.9	741.3	761.8	782.6	803.1	823.5	836.8	850.2	863.5	876.8	904.3
15°	647.2	657.4	672.9	688.5	704.0	719.6	738.7	758.2	777.3	796.4	826.6
17.5°	519.7	524.1	535.7	547.2	558.3	569.9	595.6	621.0	646.7	672.0	706.7
20°	436.2	431.3	431.3	431.7	431.7	431.7	457.5	482.8	508.6	533.9	579.6
22.5°	409.1	407.8	402.9	397.5	392.7	387.3	400.6	414.4	427.7	441.1	478.4
25°	399.8	394.9	388.7	382.4	376.2	370.0	378.4	386.9	395.3	403.8	433.1
27.5°	404.2	400.2	403.3	406.0	409.1	411.8	414.4	417.1	419.7	422.4	432.6
30°	437.5	436.2	441.1	445.5	450.4	454.8	448.6	442.8	436.6	430.4	434.0
32.5°	366.9	362.9	361.1	359.3	357.6	355.8	355.3	354.9	354.0	353.6	361.6
35°	330.9	327.4	324.7	322.0	318.9	316.3	317.6	318.5	319.8	320.7	329.6
37.5°	329.6	326.0	322.9	319.8	316.3	313.1	314.5	316.3	317.6	318.9	325.6
40°	327.4	322.9	321.1	319.4	317.6	315.8	316.7	317.6	318.0	318.9	323.8
42.5°	326.0	322.5	321.6	320.7	319.8	318.9	319.8	320.7	321.1	322.0	327.8
45°	322.9	321.1	322.0	322.9	323.8	324.7	324.7	324.7	324.7	324.7	330.9
47.5°	315.8	314.9	317.6	320.3	322.9	325.6	330.0	334.5	338.5	342.9	344.2
50°	306.9	306.9	311.4	315.8	319.8	324.2	334.9	345.1	355.8	366.0	359.3
52.5°	295.8	296.3	302.9	309.1	315.8	322.0	331.8	341.6	350.9	360.7	350.9
55°	279.8	281.2	289.6	297.6	306.0	314.0	321.6	329.1	336.7	344.2	334.0
57.5°	265.6	267.4	276.3	284.7	293.6	302.0	306.5	311.4	315.8	320.3	313.6
60°	252.3	255.0	266.5	278.1	289.2	300.7	297.2	293.6	289.6	286.0	285.6
62.5°	238.5	241.6	252.3	263.0	273.2	283.8	278.5	273.2	267.4	262.1	264.3
65°	221.2	224.3	229.2	234.1	238.5	243.4	243.0	243.0	242.5	242.1	246.5
67.5°	201.7	203.9	207.0	209.7	212.8	215.4	217.2	219.4	221.2	223.0	228.3
70°	180.8	183.0	186.1	188.8	191.9	194.5	196.8	199.0	200.8	203.0	208.3
72.5°	159.5	161.7	164.8	167.9	170.6	173.7	175.4	177.2	178.6	180.3	184.8
75°	136.8	139.5	142.6	145.2	148.4	151.0	152.4	153.7	155.0	156.3	160.3
77.5°	113.7	116.8	119.9	123.0	126.1	129.3	129.7	130.1	130.6	131.0	134.6
80°	89.3	93.3	96.4	99.5	102.6	105.7	105.7	105.7	105.7	105.7	107.5
82.5°	63.5	67.1	70.6	73.7	77.3	80.4	80.4	80.0	80.0	79.5	79.5
85°	36.4	39.5	41.8	44.4	46.6	48.9	48.9	48.9	48.4	48.4	47.5
87.5°	5.8	7.6	8.4	9.8	10.7	11.5	11.1	11.1	10.7	10.2	8.9
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: P367690
 CATALOG NUMBER: MSA-SA3A-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: P367690
 CATALOG NUMBER: MSA-SA3A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	1022.9	1034.0	1045.1	1043.4	1041.6	1039.8	1038.0	1044.7	1050.9	1057.6	1063.8
5°	1040.7	1047.4	1053.6	1058.5	1063.4	1068.2	1073.1	1095.8	1118.0	1140.6	1162.8
7.5°	931.9	929.7	927.9	948.8	970.1	991.0	1011.8	1040.7	1069.6	1098.4	1127.3
10°	885.2	890.1	895.0	903.5	912.3	920.8	929.2	957.6	986.1	1014.5	1042.9
12.5°	931.4	959.0	986.1	992.7	999.8	1006.5	1013.2	1018.9	1024.7	1030.0	1035.8
15°	856.8	887.0	917.2	934.5	951.9	968.7	986.1	1029.6	1072.7	1116.2	1159.3
17.5°	740.9	775.5	809.7	852.4	895.0	937.7	980.3	1020.3	1060.2	1099.8	1139.8
20°	625.4	670.7	716.5	763.1	809.3	855.9	902.1	941.2	980.3	1018.9	1058.0
22.5°	515.2	552.6	589.4	646.3	702.7	759.5	815.9	888.8	961.2	1034.0	1106.4
25°	461.9	491.3	520.1	578.8	637.4	695.6	754.2	848.8	943.0	1037.6	1131.8
27.5°	443.3	453.5	463.7	517.0	569.9	623.2	676.0	778.2	880.4	982.1	1084.2
30°	437.5	441.1	444.6	486.4	528.1	569.9	611.6	712.5	813.7	914.6	1015.4
32.5°	369.1	377.1	384.7	425.5	465.9	506.8	547.2	648.9	750.2	851.9	953.2
35°	338.5	347.3	356.2	396.2	436.2	475.7	515.7	622.7	730.2	837.3	944.3
37.5°	332.2	338.9	345.6	390.9	436.2	481.5	526.8	635.2	743.5	851.9	960.3
40°	329.1	334.0	338.9	382.9	427.3	471.3	515.2	629.0	742.2	855.9	969.2
42.5°	333.1	338.9	344.2	384.2	423.7	463.7	503.3	621.0	738.2	855.9	973.2
45°	336.7	342.9	348.7	386.0	423.3	460.6	497.9	623.6	748.9	874.6	999.8
47.5°	345.1	346.5	347.3	379.8	411.8	444.2	476.2	604.1	732.0	859.5	987.4
50°	352.2	345.6	338.5	372.2	405.5	439.3	472.6	593.9	715.1	835.9	957.2
52.5°	341.1	330.9	321.1	357.6	394.0	430.0	466.4	587.6	709.3	830.6	951.9
55°	324.2	314.0	303.8	340.7	377.5	414.4	451.3	572.1	693.4	814.2	935.0
57.5°	307.4	300.7	294.0	324.2	354.9	385.1	415.3	546.3	676.9	808.0	938.5
60°	285.2	284.3	283.8	307.4	331.4	354.9	378.4	506.8	634.7	763.1	891.0
62.5°	266.1	268.3	270.1	289.2	308.3	326.9	346.0	469.9	594.3	718.2	842.2
65°	251.4	255.8	260.3	282.1	303.8	325.1	346.9	450.8	554.8	658.7	762.6
67.5°	233.6	239.0	244.3	272.7	301.2	329.6	358.0	443.7	529.5	615.2	700.9
70°	213.2	218.5	223.4	259.8	295.8	332.2	368.2	444.2	520.6	596.5	672.5
72.5°	189.2	193.7	198.1	237.2	276.3	315.4	354.5	418.9	483.3	547.2	611.6
75°	164.8	168.8	172.8	206.5	240.3	274.1	307.8	357.6	406.9	456.6	505.9
77.5°	137.7	141.2	144.4	167.0	189.7	212.3	235.0	273.2	310.9	349.1	386.9
80°	109.3	111.0	112.8	126.1	139.0	152.4	165.2	190.6	215.9	240.7	266.1
82.5°	80.0	80.0	80.0	88.4	97.3	105.7	114.2	127.0	139.5	152.4	164.8
85°	46.6	45.3	44.4	50.2	56.0	61.7	67.5	72.8	78.2	83.5	88.8
87.5°	7.6	5.8	4.4	8.0	11.5	15.1	18.7	20.4	22.7	24.4	26.2
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: P367690
 CATALOG NUMBER: MSA-SA3A-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: P367690

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

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	1048.7	1034.0	1018.9	1003.8	1026.0	1048.3	1070.5	1092.7	1151.7	1186.8	1189.1
5°	1181.5	1200.2	1218.8	1237.5	1256.1	1274.8	1293.0	1311.6	1407.6	1466.7	1477.8
7.5°	1158.0	1189.1	1219.7	1250.4	1303.2	1356.1	1408.9	1461.8	1543.1	1601.7	1640.3
10°	1081.1	1119.3	1157.5	1195.7	1258.3	1321.4	1384.0	1446.7	1532.8	1610.1	1647.0
12.5°	1096.7	1157.5	1217.9	1278.8	1333.0	1387.6	1441.8	1496.0	1555.5	1584.8	1651.9
15°	1201.5	1243.7	1285.9	1328.1	1409.8	1491.1	1572.8	1654.1	1687.9	1754.9	1815.3
17.5°	1217.5	1294.8	1372.5	1449.8	1549.7	1649.7	1749.6	1849.5	1912.2	1998.8	2071.6
20°	1167.7	1277.0	1386.7	1496.0	1624.8	1754.0	1882.9	2011.7	2091.2	2164.0	2276.8
22.5°	1227.3	1348.1	1468.4	1589.3	1760.3	1930.8	2101.8	2272.4	2438.5	2601.1	2677.5
25°	1293.0	1454.7	1615.9	1777.1	1990.8	2204.0	2417.6	2630.8	2844.5	2996.8	3084.8
27.5°	1246.8	1408.9	1571.5	1733.6	1997.9	2262.6	2526.9	2791.2	3019.9	3203.4	3278.9
30°	1214.4	1413.4	1612.4	1811.3	2121.4	2431.4	2741.4	3051.5	3262.9	3467.7	3578.7
32.5°	1208.6	1464.0	1719.0	1974.4	2335.5	2696.1	3057.3	3417.9	3558.3	3740.0	3889.6
35°	1224.6	1505.3	1785.6	2065.9	2479.8	2893.8	3307.3	3721.3	3920.7	4100.6	4231.7
37.5°	1273.4	1586.6	1899.3	2212.4	2711.2	3210.5	3709.3	4208.1	4542.6	4871.7	4930.3
40°	1301.0	1633.2	1965.0	2296.8	2876.9	3457.0	4037.1	4617.2	5001.9	5363.0	5387.4
42.5°	1333.4	1693.6	2053.4	2413.6	3056.8	3700.4	4343.6	4986.8	5462.9	5851.1	5862.7
45°	1370.7	1741.2	2112.1	2482.5	3154.1	3825.2	4496.8	5168.0	5743.6	6215.3	6100.3
47.5°	1385.4	1783.8	2181.8	2579.8	3295.8	4011.3	4727.4	5442.9	5959.5	6388.6	6278.4
50°	1391.2	1825.6	2259.5	2693.5	3435.2	4177.5	4919.2	5661.0	6186.5	6604.9	6436.1
52.5°	1427.1	1902.4	2377.7	2852.9	3625.8	4398.7	5171.5	5944.4	6461.4	6863.4	6653.7
55°	1475.5	2016.1	2556.2	3096.8	3896.7	4696.3	5496.2	6295.7	6814.5	7188.5	6928.7
57.5°	1520.4	2102.7	2684.6	3266.5	4095.3	4924.6	5753.4	6582.2	7107.7	7477.7	7225.8
60°	1498.6	2106.3	2713.9	3321.5	4136.2	4950.3	5764.9	6579.1	7175.6	7619.4	7490.6
62.5°	1432.9	2023.7	2614.0	3204.7	3978.0	4750.9	5524.2	6297.1	6995.3	7564.3	7558.5
65°	1306.3	1850.0	2393.2	2936.9	3652.4	4368.5	5084.0	5799.6	6622.6	7313.8	7358.6
67.5°	1152.2	1603.5	2054.8	2506.0	3179.8	3853.7	4527.5	5201.3	6081.2	6843.8	6882.5
70°	1002.9	1333.9	1664.3	1994.8	2586.4	3178.1	3769.3	4360.9	5249.7	6021.2	6056.8
72.5°	827.9	1044.3	1260.1	1476.4	1955.7	2435.0	2913.8	3393.1	4173.5	4766.9	4967.2
75°	634.3	762.6	891.0	1019.4	1407.1	1794.9	2182.2	2570.0	3088.8	3526.7	3752.4
77.5°	453.5	520.1	586.8	653.4	983.0	1312.5	1641.7	1971.2	2244.0	2492.3	2644.6
80°	297.6	328.7	360.2	391.3	665.4	939.4	1213.0	1487.1	1653.2	1786.5	1863.3
82.5°	180.3	195.9	211.0	226.5	448.6	670.7	892.3	1114.4	1209.5	1273.0	1341.4
85°	97.3	105.7	114.2	122.6	265.2	407.3	549.9	692.0	701.4	708.9	810.6
87.5°	28.4	31.1	33.3	35.5	58.6	82.2	105.3	128.4	80.0	49.7	102.2
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: P367690
 CATALOG NUMBER: MSA-SA3A-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: P367690

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

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	1176.2	1170.4	1164.6	1158.4	1152.6	1128.2	1104.2	1079.8	1055.4	1078.9	1102.0
5°	1464.9	1482.7	1500.0	1517.7	1535.5	1536.8	1537.7	1539.1	1540.0	1544.4	1548.8
7.5°	1672.8	1704.3	1735.4	1766.9	1798.5	1822.9	1847.3	1872.2	1896.6	1874.4	1852.2
10°	1690.5	1757.2	1823.8	1890.4	1957.0	1969.0	1980.6	1992.6	2004.6	2020.6	2036.1
12.5°	1708.3	1789.6	1870.4	1951.7	2033.0	2068.5	2103.6	2139.1	2174.2	2191.6	2208.4
15°	1896.2	1944.2	1991.7	2039.7	2087.2	2111.6	2135.6	2160.0	2184.5	2199.1	2213.3
17.5°	2137.8	2155.6	2172.9	2190.7	2208.4	2224.9	2241.3	2257.7	2274.2	2276.8	2279.5
20°	2358.1	2361.7	2364.8	2368.3	2371.4	2336.8	2302.6	2268.0	2233.3	2239.5	2245.3
22.5°	2688.6	2669.0	2649.9	2630.4	2611.3	2546.0	2481.2	2415.9	2351.0	2323.0	2295.5
25°	3186.1	3136.3	3086.6	3036.8	2987.1	2883.1	2779.6	2675.7	2572.2	2511.4	2451.0
27.5°	3346.4	3238.0	3130.1	3021.7	2913.3	2834.7	2756.5	2677.9	2599.8	2503.4	2407.0
30°	3670.7	3499.7	3329.1	3158.1	2987.1	2911.1	2835.2	2758.8	2682.8	2584.2	2486.0
32.5°	3958.0	3780.4	3602.7	3424.6	3246.9	3103.0	2959.1	2815.2	2671.3	2604.6	2538.0
35°	4290.7	4067.3	3843.9	3620.5	3397.0	3273.6	3150.5	3027.1	2904.0	2803.2	2702.8
37.5°	4775.3	4537.7	4300.1	4062.0	3824.3	3657.3	3490.8	3323.8	3157.2	3101.7	3046.6
40°	5237.3	4956.5	4676.3	4395.6	4115.3	3987.4	3859.4	3731.1	3603.1	3509.4	3415.7
42.5°	5624.1	5346.5	5069.4	4791.8	4514.6	4421.3	4328.5	4235.2	4142.4	4065.1	3987.8
45°	5757.0	5530.4	5304.3	5077.8	4851.3	4818.4	4786.0	4753.1	4720.7	4663.4	4606.1
47.5°	5970.6	5739.6	5509.1	5278.1	5047.2	5059.2	5071.1	5083.6	5095.6	5098.7	5101.3
50°	6096.3	5876.9	5657.9	5438.5	5219.5	5277.7	5335.4	5393.6	5451.8	5583.7	5715.2
52.5°	6279.7	6064.3	5849.3	5633.9	5418.5	5517.1	5615.3	5713.9	5812.0	5996.8	6181.6
55°	6509.8	6303.7	6098.1	5892.0	5686.3	5782.3	5877.8	5973.7	6069.2	6274.9	6480.5
57.5°	6815.0	6594.2	6373.9	6153.2	5932.8	6021.2	6109.2	6197.6	6285.5	6481.0	6676.4
60°	7162.3	6922.5	6682.6	6442.3	6202.5	6226.9	6250.9	6275.3	6299.3	6511.2	6722.6
62.5°	7332.9	7110.8	6889.2	6667.1	6445.0	6377.0	6309.1	6240.7	6172.7	6362.4	6551.6
65°	7185.0	7032.2	6879.8	6727.0	6574.2	6454.3	6334.8	6214.9	6095.0	6213.6	6331.7
67.5°	6714.1	6627.5	6541.4	6454.7	6368.1	6166.9	5965.7	5764.1	5562.8	5570.8	5578.4
70°	5951.1	5928.0	5905.3	5882.2	5859.1	5556.6	5254.6	4952.1	4649.6	4603.4	4557.2
72.5°	4984.1	4999.2	5013.8	5028.9	5044.0	4718.9	4393.8	4068.6	3743.5	3666.7	3589.8
75°	3860.3	3943.8	4027.3	4111.3	4194.8	3883.9	3572.9	3261.6	2950.7	2856.0	2761.4
77.5°	2727.7	2883.6	3039.0	3194.9	3350.9	3069.7	2789.0	2507.8	2226.6	2165.4	2104.1
80°	1902.0	1978.4	2054.8	2131.2	2207.5	2066.3	1925.1	1783.8	1642.6	1659.4	1675.9
82.5°	1385.4	1403.1	1420.5	1438.2	1456.0	1398.3	1340.5	1282.3	1224.6	1268.6	1312.5
85°	887.5	951.0	1014.1	1077.6	1140.6	1076.7	1012.7	948.3	884.4	913.7	943.0
87.5°	198.5	314.0	429.5	545.4	660.9	598.7	537.0	474.8	412.6	384.7	357.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	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: P367690

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

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	1125.5	1149.1	1142.0	1135.3	1128.2	1121.1	1134.0	1146.9	1160.2	1173.1	1168.6
5°	1553.7	1558.2	1516.0	1474.2	1432.0	1389.8	1416.0	1442.2	1468.4	1494.6	1485.3
7.5°	1830.0	1807.8	1783.4	1758.9	1734.1	1709.6	1704.3	1699.0	1693.2	1687.9	1680.8
10°	2052.1	2067.6	2051.6	2036.1	2020.1	2004.1	1966.8	1929.5	1891.7	1854.4	1838.9
12.5°	2225.8	2243.1	2247.1	2250.6	2254.6	2258.6	2216.9	2175.6	2133.8	2092.1	2054.3
15°	2228.0	2242.6	2255.5	2268.0	2280.8	2293.3	2267.5	2242.2	2216.4	2190.7	2178.7
17.5°	2282.6	2285.3	2274.6	2264.4	2253.7	2243.5	2233.3	2223.5	2213.3	2203.6	2184.5
20°	2251.5	2257.7	2256.4	2255.1	2253.3	2252.0	2252.9	2253.3	2254.2	2254.6	2244.0
22.5°	2267.5	2239.5	2245.3	2250.6	2256.4	2261.7	2277.7	2293.7	2310.2	2326.1	2368.8
25°	2390.1	2329.3	2319.9	2311.0	2301.7	2292.8	2334.6	2375.9	2417.6	2459.4	2528.7
27.5°	2310.2	2213.8	2192.4	2171.1	2149.8	2128.5	2192.0	2255.1	2318.6	2382.1	2452.7
30°	2387.4	2289.3	2242.2	2195.1	2147.6	2100.5	2161.4	2221.8	2282.6	2343.0	2421.2
32.5°	2471.4	2404.8	2373.2	2342.1	2310.6	2279.5	2284.4	2289.3	2294.2	2299.0	2409.2
35°	2602.0	2501.1	2470.1	2439.0	2407.9	2376.8	2428.7	2480.3	2532.2	2583.8	2677.0
37.5°	2991.1	2935.6	2879.6	2823.6	2767.2	2711.2	2741.9	2772.5	2803.2	2833.8	2921.8
40°	3322.0	3228.3	3218.9	3210.1	3200.7	3191.4	3194.1	3196.3	3198.9	3201.6	3276.7
42.5°	3910.1	3832.8	3785.3	3737.7	3690.2	3642.7	3639.6	3636.5	3632.9	3629.8	3686.2
45°	4548.4	4491.1	4455.5	4420.0	4384.0	4348.5	4292.1	4235.7	4178.8	4122.4	4171.7
47.5°	5104.5	5107.6	5172.0	5235.9	5300.3	5364.7	5268.4	5172.0	5075.6	4979.2	4915.7
50°	5847.1	5978.6	5994.1	6009.2	6024.8	6040.3	5876.9	5713.9	5550.4	5387.0	5320.3
52.5°	6366.8	6551.6	6527.6	6504.1	6480.1	6456.1	6361.5	6267.3	6172.7	6078.1	5932.8
55°	6686.6	6892.3	6874.1	6856.3	6838.1	6819.9	6751.0	6682.2	6613.3	6544.5	6385.0
57.5°	6871.8	7067.3	7072.6	7077.9	7083.3	7088.6	7070.4	7052.2	7034.0	7015.7	6808.3
60°	6934.5	7146.3	7148.6	7150.3	7152.5	7154.3	7125.5	7096.6	7067.3	7038.4	6902.9
62.5°	6741.2	6930.5	6938.9	6946.9	6955.3	6963.8	6943.8	6923.8	6903.8	6883.8	6783.4
65°	6450.3	6568.9	6571.1	6572.9	6575.1	6577.3	6526.7	6476.5	6425.9	6375.2	6351.3
67.5°	5586.4	5594.4	5641.5	5688.5	5735.6	5782.7	5786.7	5790.7	5795.1	5799.1	5764.5
70°	4511.0	4464.8	4515.9	4567.0	4618.1	4669.2	4690.9	4712.7	4734.9	4756.7	4772.7
72.5°	3512.5	3435.7	3473.4	3511.2	3549.4	3587.2	3554.7	3522.3	3489.9	3457.5	3560.1
75°	2666.8	2572.2	2567.3	2562.9	2558.0	2553.6	2537.1	2520.7	2503.8	2487.4	2583.3
77.5°	2042.3	1981.0	1984.1	1986.8	1989.9	1992.6	1975.7	1959.3	1942.4	1925.5	1962.4
80°	1692.8	1709.2	1709.6	1710.1	1710.5	1711.0	1695.0	1679.4	1663.4	1647.4	1620.8
82.5°	1357.0	1400.9	1400.5	1400.5	1400.0	1399.6	1398.7	1397.8	1396.5	1395.6	1352.1
85°	972.3	1001.6	971.4	941.2	911.0	880.8	903.0	925.2	947.9	970.1	951.9
87.5°	329.1	301.6	265.6	230.1	194.1	158.1	196.8	235.4	274.5	313.1	335.4
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: P367690
 CATALOG NUMBER: MSA-SA3A-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: P367690

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

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	1164.6	1160.2	1156.2	1128.2	1099.8	1071.8	1043.4	1094.9	1146.9	1198.4	1249.9
5°	1476.4	1467.1	1458.2	1456.0	1453.8	1451.1	1448.9	1475.1	1501.3	1527.1	1553.3
7.5°	1673.7	1666.5	1659.4	1640.8	1622.6	1603.9	1585.3	1601.3	1616.8	1632.8	1648.3
10°	1823.8	1808.2	1792.7	1752.3	1712.3	1671.9	1631.5	1619.5	1607.5	1595.5	1583.5
12.5°	2016.6	1978.4	1940.6	1894.8	1848.7	1802.9	1756.7	1750.5	1744.3	1738.5	1732.3
15°	2167.1	2155.1	2143.1	2106.7	2070.3	2033.9	1997.5	1948.6	1899.3	1850.4	1801.6
17.5°	2165.8	2146.7	2128.0	2176.9	2225.3	2274.2	2322.6	2270.6	2218.2	2166.2	2114.3
20°	2233.3	2222.2	2211.5	2301.7	2391.4	2481.6	2571.3	2542.9	2514.0	2485.6	2456.7
22.5°	2411.0	2453.6	2495.8	2573.1	2649.9	2727.2	2804.1	2836.5	2868.9	2901.4	2933.8
25°	2597.5	2666.8	2736.1	2851.2	2965.8	3080.8	3195.8	3218.9	3242.0	3265.1	3288.2
27.5°	2522.9	2593.5	2664.2	2751.2	2837.8	2924.9	3011.5	3112.8	3214.5	3315.8	3417.0
30°	2498.9	2577.1	2654.8	2774.3	2893.4	3012.8	3132.3	3271.8	3411.3	3550.3	3689.8
32.5°	2518.9	2629.1	2739.2	2900.9	3062.1	3223.8	3385.5	3532.1	3679.1	3825.7	3972.3
35°	2769.9	2863.2	2956.0	3136.8	3317.5	3498.3	3679.1	3851.0	4022.9	4194.3	4366.2
37.5°	3009.3	3097.2	3185.2	3370.0	3554.3	3739.1	3923.8	4195.2	4467.1	4738.5	5009.8
40°	3351.3	3426.4	3501.0	3659.1	3817.2	3975.4	4133.5	4460.8	4788.2	5115.6	5442.9
42.5°	3742.2	3798.6	3854.5	4018.4	4182.4	4346.3	4510.2	4866.4	5223.1	5579.3	5935.5
45°	4220.5	4269.9	4319.2	4432.0	4544.8	4658.1	4770.9	5138.2	5505.5	5872.9	6240.2
47.5°	4852.2	4788.6	4725.1	4780.7	4836.2	4891.7	4947.2	5310.6	5673.9	6036.8	6400.1
50°	5253.7	5187.1	5120.4	5125.3	5129.8	5134.7	5139.5	5478.5	5817.4	6155.8	6494.7
52.5°	5787.6	5641.9	5496.7	5495.3	5494.0	5492.2	5490.9	5786.3	6082.1	6377.5	6672.8
55°	6225.6	6066.1	5906.6	5875.5	5844.5	5812.9	5781.8	6074.1	6365.9	6658.2	6950.0
57.5°	6600.9	6393.0	6185.6	6136.7	6087.9	6039.0	5990.1	6305.1	6620.4	6935.3	7250.3
60°	6767.9	6632.4	6497.4	6437.4	6377.5	6317.5	6257.5	6525.8	6794.1	7061.9	7330.2
62.5°	6683.5	6583.1	6483.2	6496.9	6510.7	6524.5	6538.3	6691.5	6845.2	6998.4	7151.7
65°	6327.7	6303.7	6280.2	6391.2	6502.3	6613.3	6724.4	6726.6	6728.8	6731.0	6733.2
67.5°	5729.9	5695.2	5660.6	5891.5	6122.1	6353.0	6584.0	6474.3	6364.6	6255.3	6145.6
70°	4788.2	4804.2	4819.7	5134.2	5448.2	5762.7	6077.2	5918.2	5758.7	5599.7	5440.3
72.5°	3662.7	3765.7	3868.3	4194.3	4520.4	4846.4	5172.4	4990.7	4808.6	4627.0	4444.9
75°	2679.3	2775.2	2871.1	3193.2	3515.2	3837.7	4159.7	3943.8	3728.0	3512.5	3296.7
77.5°	1999.2	2036.5	2073.4	2341.2	2608.6	2876.5	3143.9	2927.1	2710.4	2494.0	2277.3
80°	1594.6	1567.9	1541.7	1690.1	1838.4	1986.8	2135.1	1981.5	1827.3	1673.7	1520.0
82.5°	1309.0	1265.5	1222.4	1277.4	1332.5	1388.0	1443.1	1320.1	1197.1	1074.0	951.0
85°	933.7	915.4	897.2	913.2	928.8	944.8	960.8	840.8	720.9	601.4	481.5
87.5°	357.1	379.3	401.5	426.9	451.7	477.0	501.9	393.1	284.3	175.9	67.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	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: P367690
 CATALOG NUMBER: MSA-SA3A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	965.2	965.2
2.5°	1271.2	1292.5
5°	1552.8	1552.4
7.5°	1641.2	1633.7
10°	1563.9	1544.4
12.5°	1674.5	1616.4
15°	1743.8	1685.6
17.5°	2026.8	1938.8
20°	2352.4	2247.5
22.5°	2774.3	2614.9
25°	3097.7	2906.7
27.5°	3303.8	3190.1
30°	3559.6	3429.5
32.5°	3876.3	3779.9
35°	4278.3	4189.9
37.5°	4982.3	4954.3
40°	5409.6	5375.8
42.5°	5936.8	5937.7
45°	6260.2	6280.2
47.5°	6450.8	6500.9
50°	6602.7	6710.1
52.5°	6819.9	6966.9
55°	7145.4	7340.4
57.5°	7416.4	7582.5
60°	7416.4	7502.1
62.5°	7149.4	7146.8
65°	6691.9	6650.2
67.5°	6093.2	6040.8
70°	5358.5	5276.4
72.5°	4343.1	4241.0
75°	3156.8	3016.4
77.5°	2210.7	2143.6
80°	1552.4	1584.8
82.5°	997.2	1043.4
85°	474.4	467.3
87.5°	56.0	44.9
90°	0.0	0.0
92.5°	0.0	0.0
95°	0.0	0.0
97.5°	0.0	0.0
100°	0.0	0.0
102.5°	0.0	0.0
105°	0.0	0.0
107.5°	0.0	0.0
110°	0.0	0.0

REPORT NUMBER: P367690
CATALOG NUMBER: MSA-SA3A-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)