

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: P368306

Luminaire Tested: **MSA-SA4A-830-U-SLR**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4A-830-U-SLR
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS
EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10553 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

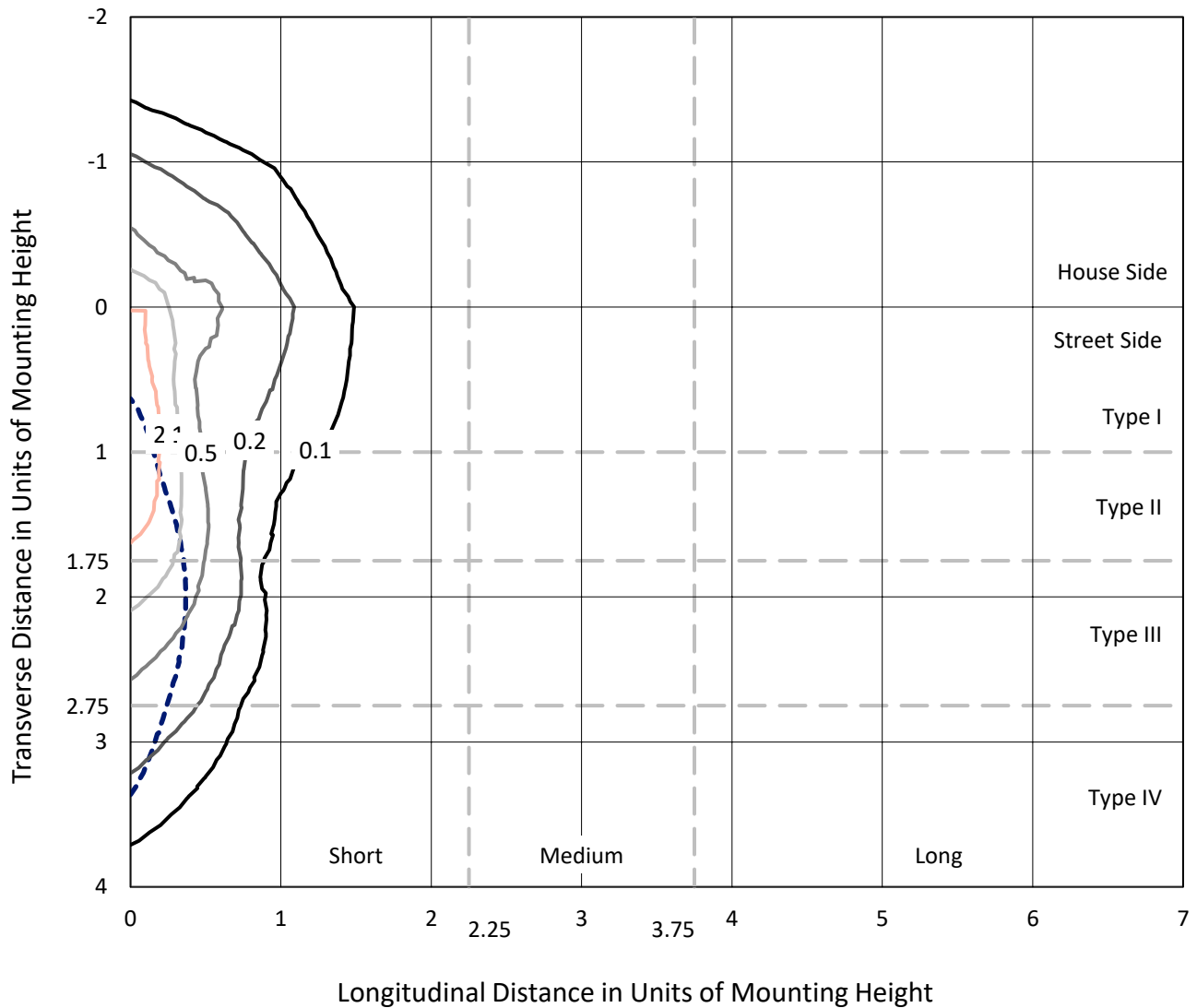
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

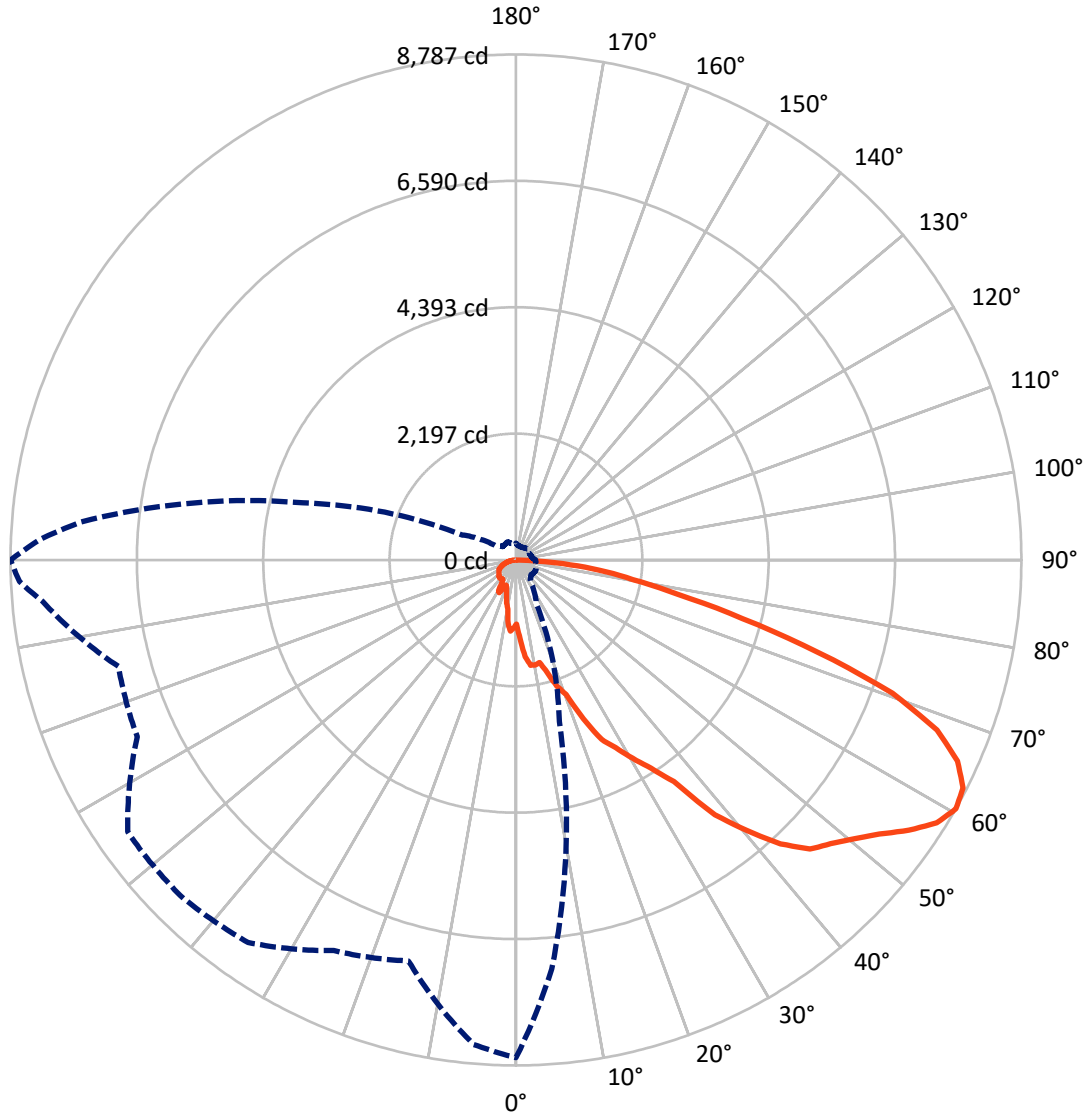
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 270-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2043.9	0.0	2043.9
	% Fixture	19.4	0.0	19.4
Street Side	Lumens	8509.1	0.0	8509.1
	% Fixture	80.6	0.0	80.6
Total	Lumens	10553.0	0.0	10553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	1.2
10°-20°	370.8	3.5
20°-30°	654.6	6.2
30°-40°	1019.5	9.7
40°-50°	1678.4	15.9
50°-60°	2395.7	22.7
60°-70°	2540.3	24.1
70°-80°	1403.1	13.3
80°-90°	363.0	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°	10553.0	100.0
0°-180°	10553.0	100.0

Coefficient of Utilization

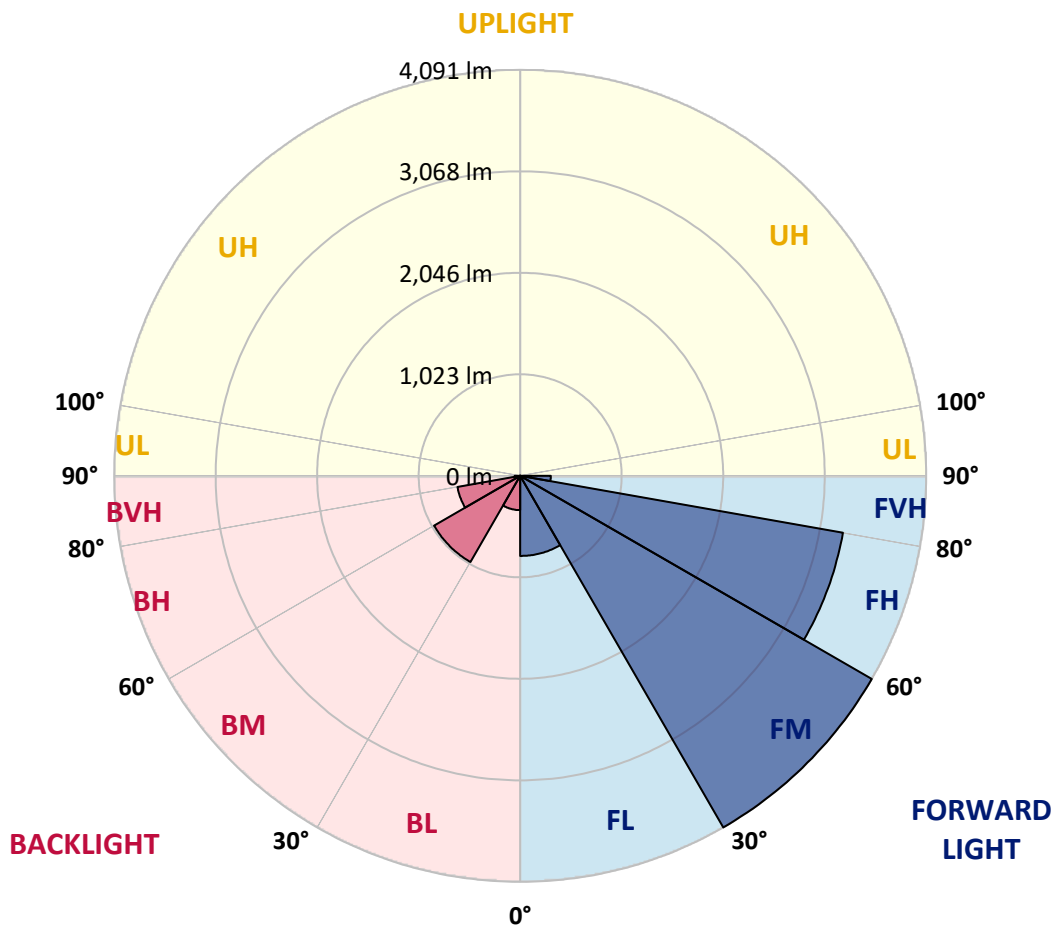


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.5	7.7			
FM (30°-60°)	4091.0	38.8			
FH (60°-80°)	3302.1	31.3			G2/5000
FVH (80°-90°)	308.5	2.9			G3/500
BL (0°-30°)	345.5	3.3	B1/500		
BM (30°-60°)	1002.6	9.5	B2/2500		
BH (60°-80°)	641.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	54.5	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°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1490.6	1499.8	1508.5	1491.1	1473.7	1455.7	1438.3	1412.2	1385.6	1359.4	1332.8
5°	1790.2	1756.4	1722.1	1708.3	1695.0	1681.1	1667.3	1654.5	1641.7	1628.4	1615.6
7.5°	1884.0	1835.8	1787.2	1766.7	1746.2	1725.2	1704.7	1658.6	1612.5	1565.9	1519.8
10°	1781.0	1730.8	1680.1	1660.1	1639.6	1619.7	1599.2	1542.8	1487.0	1430.6	1374.3
12.5°	1864.0	1812.8	1761.0	1697.5	1634.0	1570.0	1506.5	1475.2	1444.0	1412.2	1381.0
15°	1943.9	1874.7	1805.1	1741.6	1678.1	1614.0	1550.5	1488.0	1425.5	1363.0	1300.5
17.5°	2235.9	2120.6	2005.4	1890.6	1775.4	1660.6	1545.4	1473.2	1400.4	1328.2	1255.5
20°	2591.9	2431.5	2270.7	2096.5	1921.9	1747.7	1573.0	1481.9	1391.2	1300.0	1208.9
22.5°	3015.5	2813.1	2610.8	2391.1	2171.3	1951.1	1731.3	1599.2	1467.0	1334.3	1202.2
25°	3352.0	3157.4	2962.7	2684.1	2405.4	2126.8	1848.1	1698.0	1547.9	1397.4	1247.3
27.5°	3678.8	3368.9	3058.5	2739.4	2420.8	2101.7	1782.5	1643.7	1504.9	1366.1	1227.3
30°	3954.9	3709.0	3463.2	3046.7	2630.3	2213.3	1796.9	1626.3	1455.7	1285.2	1114.6
32.5°	4359.0	4008.2	3656.8	3222.4	2788.0	2353.7	1919.3	1701.1	1482.9	1264.7	1046.5
35°	4831.8	4467.1	4102.4	3565.1	3028.3	2491.0	1953.6	1722.6	1491.1	1260.1	1028.5
37.5°	5713.4	5070.5	4427.2	3840.7	3254.2	2667.2	2080.7	1812.3	1543.8	1274.9	1006.5
40°	6199.5	5605.3	5011.1	4280.2	3549.2	2817.8	2086.8	1812.3	1537.2	1262.6	987.6
42.5°	6847.4	6096.0	5344.1	4553.7	3763.8	2973.5	2183.1	1878.8	1574.6	1269.8	965.5
45°	7242.4	6404.9	5566.9	4722.2	3877.5	3032.9	2188.2	1879.4	1570.5	1261.6	952.7
47.5°	7496.9	6692.7	5888.0	4978.8	4069.6	3159.9	2250.7	1922.9	1594.6	1266.7	938.4
50°	7738.2	6941.7	6144.7	5200.6	4257.1	3313.1	2369.0	2011.0	1653.0	1294.4	936.3
52.5°	8034.3	7300.8	6566.7	5554.1	4540.9	3528.2	2515.0	2125.2	1735.4	1345.6	955.8
55°	8465.0	7742.3	7019.0	5932.1	4844.6	3757.7	2670.2	2237.4	1805.1	1372.3	939.4
57.5°	8744.2	8011.2	7278.2	6169.8	5061.3	3952.3	2843.9	2364.4	1885.0	1405.0	925.6
60°	8651.5	7895.4	7138.9	6082.2	5025.4	3968.7	2912.0	2394.1	1876.8	1358.9	841.1
62.5°	8241.7	7438.0	6634.3	5687.8	4741.7	3795.1	2848.5	2321.9	1795.9	1269.3	742.7
65°	7669.0	6838.2	6006.9	5153.0	4299.1	3445.2	2591.3	2113.4	1635.0	1157.1	678.7
67.5°	6966.3	6100.1	5233.4	4477.4	3721.3	2964.8	2208.7	1809.2	1410.2	1010.6	611.1
70°	6084.7	5233.4	4382.1	3728.0	3073.9	2419.8	1765.6	1465.0	1164.8	864.1	563.4
72.5°	4890.7	4156.2	3421.7	2906.9	2392.1	1877.3	1362.5	1153.5	945.1	736.1	527.1
75°	3478.5	3046.7	2614.9	2214.4	1813.8	1412.7	1012.2	876.9	741.7	606.5	471.2
77.5°	2472.0	2217.4	1962.8	1648.9	1334.9	1020.9	706.9	627.5	548.6	469.2	389.8
80°	1827.6	1615.0	1402.5	1165.8	929.2	692.5	455.9	417.0	378.5	339.6	300.7
82.5°	1203.2	1107.4	1011.1	823.7	636.2	448.7	261.2	246.9	232.6	218.2	203.9
85°	538.9	569.1	598.8	484.1	368.8	254.1	138.8	132.2	125.5	118.8	112.2
87.5°	51.7	76.3	100.9	86.6	71.7	57.4	42.5	42.0	42.0	41.5	41.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1340.0	1347.2	1354.3	1361.5	1353.8	1346.1	1337.9	1330.3	1320.5	1310.8	1300.5
5°	1594.0	1572.0	1550.5	1528.5	1495.7	1462.9	1429.6	1396.8	1392.7	1388.1	1384.0
7.5°	1479.3	1439.4	1398.9	1358.4	1307.2	1256.5	1205.3	1154.0	1138.7	1123.3	1107.9
10°	1347.2	1319.5	1292.3	1264.7	1232.9	1201.2	1168.9	1137.1	1095.1	1052.6	1010.6
12.5°	1335.9	1290.8	1245.2	1200.1	1180.7	1161.2	1141.8	1122.3	1085.4	1048.5	1011.1
15°	1264.2	1227.3	1190.9	1154.0	1125.9	1097.7	1069.5	1041.4	1011.6	981.4	951.7
17.5°	1213.5	1171.5	1129.5	1087.5	1055.2	1022.9	990.1	957.9	922.0	885.6	849.8
20°	1160.7	1113.1	1064.9	1016.8	975.8	935.3	894.3	853.4	813.9	775.0	735.6
22.5°	1139.2	1076.2	1013.2	950.2	907.2	863.6	820.6	777.0	740.7	704.3	667.9
25°	1172.0	1097.2	1021.9	946.6	888.7	830.3	772.4	714.0	683.8	653.6	622.9
27.5°	1133.6	1039.3	945.6	851.3	789.3	726.8	664.9	602.4	597.8	593.2	588.0
30°	1015.7	916.9	818.0	719.2	662.3	604.9	548.1	490.7	480.0	468.7	457.9
32.5°	945.6	844.7	743.8	642.8	592.1	540.9	490.2	439.0	426.7	414.4	402.1
35°	918.9	809.3	699.7	590.1	546.5	503.0	459.5	415.9	407.2	399.0	390.3
37.5°	897.4	788.8	679.7	570.6	528.6	486.6	444.1	402.1	395.4	388.8	382.1
40°	876.9	766.8	656.2	545.5	508.1	471.2	433.9	396.5	392.4	388.3	383.7
42.5°	858.5	751.4	643.9	536.8	503.5	470.7	437.4	404.1	400.0	396.0	391.9
45°	848.2	743.8	639.3	534.8	510.7	486.6	462.0	438.0	428.2	418.5	408.2
47.5°	840.6	742.7	644.9	547.1	522.0	496.9	471.8	446.7	438.0	429.2	420.0
50°	842.1	748.4	654.1	559.9	529.6	498.9	468.7	438.0	436.9	435.9	434.9
52.5°	855.9	756.6	656.7	556.8	524.0	491.2	457.9	425.1	431.8	438.0	444.6
55°	836.0	732.5	628.5	525.0	493.8	463.1	431.8	400.6	409.3	417.5	426.2
57.5°	813.4	701.2	589.1	476.9	453.3	429.8	405.7	382.1	391.3	401.1	410.3
60°	738.6	636.2	533.7	431.3	415.4	399.5	383.7	367.8	371.9	376.0	380.1
62.5°	656.7	570.1	484.1	397.5	385.2	372.4	360.1	347.3	347.3	347.8	347.8
65°	604.4	530.2	455.9	381.6	367.8	353.9	339.6	325.8	323.7	321.7	319.6
67.5°	552.2	493.8	434.9	376.0	356.0	336.5	316.6	296.6	294.0	292.0	289.4
70°	511.2	459.0	406.7	354.5	331.9	309.9	287.4	264.8	262.8	261.2	259.2
72.5°	477.9	429.2	380.1	330.9	307.3	283.3	259.7	235.6	234.1	232.6	230.5
75°	427.7	384.7	341.1	297.6	274.6	252.0	229.0	205.9	203.9	202.3	200.3
77.5°	353.9	317.6	281.7	245.4	227.4	210.0	192.1	174.2	173.1	172.1	170.6
80°	272.5	244.3	215.6	187.5	175.7	163.4	151.6	139.3	138.8	138.3	137.3
82.5°	187.0	170.1	153.2	136.3	127.5	118.3	109.6	100.4	100.9	101.4	101.9
85°	106.5	100.4	94.8	88.6	81.4	74.8	67.6	60.4	62.0	63.5	64.5
87.5°	38.9	36.9	34.8	32.8	29.2	26.1	22.5	19.0	20.0	21.5	22.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368306

CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1290.8	1275.4	1260.1	1244.7	1229.3	1197.6	1166.3	1134.6	1102.8	1122.3	1142.3
5°	1379.4	1353.3	1326.7	1300.5	1273.9	1259.1	1244.2	1229.3	1214.5	1222.2	1230.4
7.5°	1092.6	1077.2	1061.3	1046.0	1030.1	1023.4	1017.3	1010.6	1004.0	1022.9	1041.9
10°	968.1	946.6	925.1	903.1	881.5	868.7	855.9	843.1	830.3	835.4	840.6
12.5°	974.3	942.5	910.7	879.0	847.2	828.3	809.3	790.4	771.4	776.0	780.6
15°	921.5	888.7	855.9	823.1	790.4	768.3	745.8	723.8	701.2	693.6	685.4
17.5°	813.4	777.6	741.7	705.8	670.0	655.1	640.3	625.4	610.6	602.4	594.2
20°	696.1	662.8	629.5	596.2	562.9	552.7	542.4	531.7	521.4	516.3	510.7
22.5°	631.6	611.1	590.1	569.6	548.6	536.8	525.5	513.8	502.0	496.3	490.2
25°	592.6	596.7	601.4	605.5	609.5	604.4	598.8	593.7	588.0	590.1	591.6
27.5°	583.4	592.1	601.4	610.1	618.8	623.4	628.0	632.6	637.2	638.7	640.3
30°	446.7	451.3	455.4	460.0	464.1	476.9	489.7	502.0	514.8	534.8	555.3
32.5°	389.8	388.3	386.7	384.7	383.1	386.2	389.3	391.9	394.9	402.1	409.8
35°	381.6	378.0	373.9	370.3	366.2	367.8	369.3	370.9	372.4	378.0	383.7
37.5°	375.5	373.9	372.9	371.4	369.8	373.4	376.5	380.1	383.1	387.8	392.4
40°	379.6	379.0	378.5	377.5	377.0	379.0	381.1	383.1	385.2	391.3	397.5
42.5°	387.8	387.8	387.2	387.2	386.7	388.8	390.3	392.4	393.9	397.5	401.1
45°	398.5	397.5	397.0	396.0	394.9	394.4	394.4	393.9	393.4	395.4	398.0
47.5°	411.3	407.7	403.6	400.0	396.0	394.9	393.4	392.4	390.8	391.9	392.9
50°	433.9	424.1	414.9	405.2	395.4	392.9	390.3	387.8	385.2	384.7	384.7
52.5°	450.8	436.4	422.1	407.7	393.4	388.8	384.2	379.6	374.9	373.9	373.4
55°	434.4	423.6	413.4	402.6	391.9	385.2	378.0	371.4	364.2	362.7	361.1
57.5°	419.5	412.9	406.2	399.5	392.9	386.2	379.0	372.4	365.2	361.6	358.0
60°	384.2	384.2	384.7	384.7	384.7	377.5	370.3	363.2	356.0	352.4	349.3
62.5°	347.8	353.4	358.6	364.2	369.3	359.6	349.3	339.6	329.4	326.8	324.8
65°	317.6	319.1	321.2	322.7	324.2	316.6	308.9	301.2	293.5	292.0	289.9
67.5°	286.8	286.3	285.8	284.8	284.3	279.7	274.6	269.9	264.8	262.8	260.7
70°	257.1	256.6	256.1	255.1	254.6	250.5	246.4	242.3	238.2	236.6	235.1
72.5°	229.0	228.5	227.4	226.9	225.9	222.3	219.2	215.6	212.1	210.0	208.0
75°	198.2	197.2	196.2	195.2	194.1	191.1	188.0	184.4	181.3	179.3	177.2
77.5°	169.5	168.0	166.5	164.4	162.9	160.3	157.3	154.7	151.6	149.1	147.0
80°	136.8	135.7	134.7	133.2	132.2	129.6	127.0	124.0	121.4	118.3	115.8
82.5°	102.4	101.9	100.9	100.4	99.4	96.8	94.2	91.7	89.1	86.1	83.0
85°	66.1	65.6	65.1	64.5	64.0	62.0	60.4	58.4	56.3	53.3	50.7
87.5°	23.6	22.5	22.0	21.0	20.0	19.5	18.4	17.9	16.9	15.4	13.8
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: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368306

CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1161.7	1181.2	1181.7	1181.7	1190.9	1199.6	1181.7	1163.8	1145.3	1127.4	1109.5
5°	1238.0	1245.7	1243.7	1241.1	1229.9	1218.6	1206.8	1195.0	1183.2	1171.5	1172.0
7.5°	1060.8	1079.8	1095.1	1110.0	1095.7	1081.3	1073.6	1065.9	1058.3	1050.6	1049.6
10°	845.2	850.3	856.4	862.1	853.4	844.1	859.5	874.9	889.7	905.1	888.2
12.5°	785.2	789.9	779.1	767.8	764.2	760.7	757.1	753.0	749.4	745.3	743.2
15°	677.7	669.5	661.3	652.6	650.5	648.0	645.4	642.3	639.8	636.7	627.5
17.5°	586.0	577.8	564.0	549.6	544.0	537.8	536.3	534.8	532.7	531.2	522.5
20°	505.6	499.9	496.3	492.2	486.6	481.0	475.3	469.7	463.6	457.9	449.7
22.5°	484.6	478.4	473.8	468.7	467.7	466.6	456.4	445.6	435.4	424.6	420.0
25°	593.7	595.2	567.0	538.3	535.8	533.2	514.8	495.8	477.4	458.4	442.6
27.5°	641.3	642.8	641.8	640.8	632.6	623.9	592.6	560.9	529.6	497.9	475.3
30°	575.2	595.2	602.9	610.6	604.9	598.8	566.0	533.7	501.0	468.2	453.3
32.5°	417.0	424.1	436.9	449.2	455.9	462.0	451.8	441.5	431.3	421.0	418.5
35°	388.8	394.4	397.0	399.5	395.4	391.3	383.7	376.0	367.8	360.1	358.6
37.5°	396.5	401.1	406.2	411.3	400.0	388.3	379.6	371.4	362.7	353.9	346.8
40°	403.6	409.8	412.9	415.9	404.7	393.4	382.6	372.4	361.6	350.9	343.7
42.5°	404.7	408.2	413.9	419.5	403.6	387.2	377.5	367.3	357.5	347.3	340.1
45°	400.0	402.1	407.2	412.3	393.9	374.9	366.2	357.0	348.3	339.1	332.9
47.5°	393.4	394.4	398.5	402.1	382.6	362.7	354.5	346.3	337.6	329.4	323.2
50°	384.2	383.7	386.7	389.3	369.3	349.3	341.1	333.5	325.3	317.1	311.9
52.5°	372.4	371.4	374.4	377.0	356.0	335.0	327.8	321.2	314.0	306.8	302.7
55°	359.1	357.5	360.1	362.7	342.2	321.2	315.0	308.4	302.2	295.6	292.0
57.5°	353.9	350.4	351.9	353.4	330.4	307.3	301.2	295.0	288.9	282.7	280.2
60°	345.8	342.2	343.7	344.7	320.1	295.0	289.4	283.3	277.6	271.5	268.9
62.5°	322.2	319.6	321.7	323.7	301.7	279.2	274.0	269.4	264.3	259.2	255.6
65°	288.4	286.3	290.4	294.5	275.6	256.6	253.6	250.5	246.9	243.8	240.2
67.5°	258.7	256.6	260.7	264.8	251.0	237.2	234.1	231.0	227.9	224.9	222.8
70°	233.6	232.0	235.6	239.2	227.4	215.6	212.6	210.0	206.9	203.9	202.3
72.5°	205.4	203.4	208.0	212.1	202.3	192.1	189.5	186.5	183.9	180.8	179.8
75°	175.2	173.1	177.2	180.8	174.2	167.0	164.4	161.9	159.3	156.7	156.2
77.5°	144.4	141.9	146.0	149.6	145.5	140.9	138.8	136.3	134.2	131.6	131.6
80°	112.7	109.6	112.7	115.3	113.7	112.2	110.6	108.6	107.1	105.0	105.5
82.5°	79.9	76.8	78.4	79.9	80.9	82.0	82.0	82.0	82.0	82.0	82.0
85°	47.6	44.6	45.1	45.6	47.1	48.7	49.2	49.7	50.2	50.7	51.2
87.5°	12.3	10.8	9.7	8.2	9.7	10.8	11.8	12.3	13.3	13.8	13.8
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: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368306

CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1091.6	1073.1	1055.2	1066.5	1077.2	1088.5	1099.2	1099.7	1099.7	1100.3	1100.3
5°	1173.0	1173.5	1174.0	1163.3	1153.0	1142.3	1131.5	1125.9	1120.2	1114.1	1108.5
7.5°	1048.0	1047.0	1045.5	1035.2	1025.0	1014.7	1004.5	979.9	954.8	930.2	905.1
10°	870.8	853.9	836.5	832.4	828.8	824.7	820.6	813.9	807.8	801.1	794.5
12.5°	741.2	739.1	737.1	726.3	715.6	704.3	693.6	693.6	693.6	693.6	693.6
15°	617.7	608.5	598.8	593.7	588.0	582.9	577.3	574.7	572.2	569.6	567.0
17.5°	513.3	504.5	495.3	494.3	493.3	492.2	491.2	488.7	486.1	483.5	481.0
20°	441.5	433.3	425.1	428.2	431.3	433.9	436.9	434.4	431.8	428.7	426.2
22.5°	414.9	410.3	405.2	402.6	400.0	397.0	394.4	394.4	394.9	394.9	394.9
25°	427.2	411.3	395.4	387.8	380.1	371.9	364.2	361.1	358.6	355.5	352.4
27.5°	452.8	429.8	407.2	393.9	380.6	367.3	353.9	348.3	342.2	336.5	330.4
30°	438.0	423.1	407.7	392.4	377.0	361.6	346.3	339.1	331.9	324.2	317.1
32.5°	415.9	412.9	410.3	396.0	381.6	366.8	352.4	349.3	346.8	343.7	340.6
35°	356.5	355.0	352.9	349.3	345.8	342.2	338.6	334.5	330.4	326.3	322.2
37.5°	340.1	332.9	325.8	324.2	322.7	321.2	319.6	318.1	316.6	314.5	313.0
40°	336.5	329.4	322.2	319.6	317.1	314.0	311.4	311.9	313.0	313.5	314.0
42.5°	332.4	325.3	317.6	315.5	313.5	311.4	309.4	309.9	310.9	311.4	311.9
45°	327.3	321.2	315.0	311.4	308.4	304.8	301.2	304.3	307.3	309.9	313.0
47.5°	317.1	310.4	304.3	302.2	300.2	297.6	295.6	298.6	301.7	304.3	307.3
50°	306.3	301.2	295.6	295.0	294.5	293.5	293.0	295.0	297.1	299.1	301.2
52.5°	298.1	294.0	289.4	289.4	288.9	288.9	288.4	290.4	292.5	294.0	296.1
55°	288.9	285.3	281.7	282.2	283.3	283.8	284.3	286.3	288.9	290.9	293.0
57.5°	277.1	274.6	271.5	273.5	275.1	277.1	278.7	280.2	282.2	283.8	285.3
60°	265.8	263.3	260.2	262.3	264.8	266.9	268.9	270.5	272.0	273.5	275.1
62.5°	252.0	247.9	244.3	247.4	250.0	253.0	255.6	256.6	258.2	259.2	260.2
65°	237.2	233.6	230.0	232.0	234.1	235.6	237.7	239.2	240.7	242.3	243.8
67.5°	220.3	218.2	215.6	217.2	218.7	220.3	221.8	222.3	222.3	222.8	222.8
70°	200.3	198.7	196.7	197.7	199.3	200.3	201.3	201.3	201.3	200.8	200.8
72.5°	179.3	178.3	177.2	177.7	178.8	179.3	179.8	179.3	178.8	178.3	177.7
75°	155.7	155.2	154.7	155.2	156.2	156.7	157.3	156.7	155.7	155.2	154.2
77.5°	132.2	132.2	132.2	132.2	132.7	132.7	132.7	131.6	130.6	129.6	128.6
80°	106.0	106.5	107.1	107.1	107.1	107.1	107.1	106.0	105.0	103.5	102.4
82.5°	82.0	82.0	82.0	82.0	82.5	82.5	82.5	79.9	77.9	75.3	72.7
85°	51.2	51.7	51.7	52.2	52.8	52.8	53.3	49.7	46.6	43.0	39.4
87.5°	13.8	13.8	13.8	13.8	13.8	13.3	13.3	10.2	6.7	3.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1103.3	1106.4	1109.0	1112.0	1112.6	1113.1	1113.1	1113.6	1102.8	1092.1	1080.8
5°	1116.1	1123.3	1131.0	1138.2	1136.6	1135.1	1133.6	1132.0	1128.9	1126.4	1123.3
7.5°	899.5	894.3	888.7	883.1	887.7	892.3	896.9	901.5	903.6	905.6	907.2
10°	781.7	768.9	756.0	743.2	736.1	728.4	721.2	713.5	712.5	712.0	711.0
12.5°	680.2	666.4	653.1	639.3	635.2	630.5	626.5	621.8	625.9	630.0	633.6
15°	561.4	556.3	550.6	545.0	549.6	554.2	558.8	563.4	567.5	571.1	575.2
17.5°	478.4	476.4	473.8	471.2	475.3	480.0	484.1	488.2	497.4	506.6	515.8
20°	424.1	422.6	420.5	418.5	417.0	414.9	413.4	411.3	424.6	437.4	450.8
22.5°	391.9	388.8	385.7	382.6	383.1	383.7	383.7	384.2	394.9	406.2	417.0
25°	351.4	350.4	349.3	348.3	351.4	354.5	357.0	360.1	369.8	379.6	388.8
27.5°	330.9	331.4	331.9	332.4	336.5	341.1	345.2	349.3	356.0	362.7	369.3
30°	319.6	322.7	325.3	327.8	329.4	330.9	332.4	334.0	340.6	346.8	353.4
32.5°	336.5	332.4	327.8	323.7	325.8	328.3	330.4	332.4	338.6	344.7	350.9
35°	320.7	318.6	317.1	315.0	317.6	320.1	322.2	324.8	330.4	335.5	341.1
37.5°	312.5	311.9	311.4	310.9	312.5	314.0	315.0	316.6	321.7	326.8	331.4
40°	311.9	309.4	307.3	304.8	306.3	307.8	308.9	310.4	316.6	322.7	328.8
42.5°	308.9	305.8	302.2	299.1	300.7	302.7	304.3	305.8	312.5	318.6	325.3
45°	308.4	303.7	298.6	294.0	296.1	298.1	300.2	302.2	307.3	312.5	317.1
47.5°	302.7	298.1	293.5	288.9	289.9	290.9	291.5	292.5	297.1	301.2	305.8
50°	298.1	294.5	291.5	287.9	286.3	285.3	283.8	282.2	285.8	289.4	293.0
52.5°	292.5	288.9	284.8	281.2	279.2	277.1	275.1	273.0	276.1	278.7	281.7
55°	288.9	284.3	280.2	275.6	273.0	270.5	267.9	265.3	267.4	268.9	271.0
57.5°	281.2	277.1	272.5	268.4	265.3	262.3	258.7	255.6	256.6	257.6	258.7
60°	271.0	266.4	262.3	257.6	254.1	250.5	246.4	242.8	243.3	244.3	244.8
62.5°	256.1	252.0	247.4	243.3	239.2	235.6	231.5	227.4	228.5	229.0	230.0
65°	239.7	235.1	231.0	226.4	222.8	219.2	215.1	211.5	212.6	213.6	214.1
67.5°	219.7	216.2	213.1	209.5	206.4	202.8	199.8	196.2	196.7	197.2	197.7
70°	198.2	195.2	192.6	189.5	187.0	184.4	181.8	179.3	179.3	179.8	179.8
72.5°	175.2	172.6	170.1	167.5	164.9	162.9	160.3	157.8	158.8	159.8	160.3
75°	151.6	149.6	147.0	144.4	142.4	140.3	137.8	135.7	136.8	137.8	138.3
77.5°	127.0	125.5	123.4	121.9	119.9	117.8	115.3	113.2	114.2	115.3	115.8
80°	101.4	100.4	98.9	97.8	95.8	93.7	91.7	89.6	90.2	90.2	90.7
82.5°	73.2	73.8	73.8	74.3	72.7	70.7	69.2	67.1	67.1	67.1	66.6
85°	41.0	43.0	44.6	46.1	44.6	43.0	41.5	40.0	39.4	39.4	38.9
87.5°	1.5	2.6	4.1	5.1	4.6	4.1	3.1	2.6	3.1	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368306

CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1070.0	1078.7	1087.5	1096.2	1104.9	1118.2	1131.5	1145.3	1159.2	1151.5	1143.3
5°	1120.2	1125.4	1131.0	1136.1	1141.2	1156.1	1170.4	1188.4	1205.8	1203.7	1201.2
7.5°	909.2	916.4	923.5	930.2	937.4	959.9	982.4	1001.4	1020.4	1017.8	1014.7
10°	709.9	724.8	740.2	755.0	769.9	788.3	806.2	822.1	838.0	864.6	890.8
12.5°	637.7	660.8	683.8	706.9	729.9	743.2	756.0	776.5	797.0	811.4	826.2
15°	578.8	600.3	621.8	643.4	664.9	665.9	666.9	688.4	709.9	722.2	734.0
17.5°	525.0	536.8	548.6	559.9	571.6	567.5	563.4	573.7	583.4	588.5	594.2
20°	463.6	471.8	480.0	488.2	496.3	502.0	507.1	513.3	518.9	513.8	508.1
22.5°	427.7	440.0	452.8	465.1	477.4	481.0	484.1	480.5	476.9	475.3	473.8
25°	398.5	413.4	428.7	443.6	458.4	465.6	472.8	475.9	478.4	472.8	467.1
27.5°	376.0	393.9	411.3	429.2	446.7	459.5	472.3	475.9	478.9	474.8	470.2
30°	359.6	379.0	398.5	418.0	437.4	456.9	475.9	492.8	509.2	507.6	506.1
32.5°	357.0	370.3	383.7	397.0	410.3	422.6	434.4	435.4	435.9	431.8	427.2
35°	346.3	355.0	363.7	372.4	381.1	388.8	396.0	394.9	393.9	389.8	385.7
37.5°	336.5	345.2	354.5	363.2	371.9	385.2	398.0	395.4	392.4	388.3	384.2
40°	335.0	344.7	354.5	363.7	373.4	385.7	398.0	395.4	392.9	387.8	382.6
42.5°	331.4	341.1	350.4	360.1	369.3	384.2	398.5	393.9	388.8	384.7	380.6
45°	322.2	330.9	339.6	348.3	357.0	372.9	388.8	383.1	377.5	376.0	373.9
47.5°	309.9	318.6	327.3	336.0	344.7	360.6	376.0	371.4	366.2	365.7	364.7
50°	296.6	304.8	313.5	321.7	329.9	345.8	361.1	357.0	352.9	353.4	353.4
52.5°	284.3	292.0	299.1	306.8	314.0	329.9	345.2	342.2	338.6	339.6	340.1
55°	272.5	278.7	284.8	290.9	297.1	312.5	327.8	323.2	318.6	320.1	321.7
57.5°	259.7	264.8	269.9	274.6	279.7	295.0	309.9	304.8	299.1	301.7	303.7
60°	245.4	250.0	254.6	258.7	263.3	277.1	290.4	285.8	280.7	284.3	287.4
62.5°	230.5	234.1	237.7	241.3	244.8	257.6	270.5	266.9	263.3	267.4	271.0
65°	215.1	217.7	220.8	223.3	225.9	238.2	250.0	247.4	244.8	248.4	252.0
67.5°	198.2	200.3	202.8	204.9	206.9	218.2	229.5	226.9	223.8	226.9	229.5
70°	179.8	181.8	183.4	185.4	187.0	197.2	207.5	203.9	199.8	202.8	205.4
72.5°	161.4	162.4	163.9	164.9	166.0	173.6	181.3	178.3	175.2	178.3	180.8
75°	139.3	140.3	141.4	142.4	143.4	150.1	156.2	152.6	148.5	151.6	154.7
77.5°	116.8	117.3	118.3	118.8	119.3	124.0	128.1	124.5	120.4	124.0	127.5
80°	90.7	91.2	91.7	91.7	92.2	93.7	95.3	92.7	89.6	94.2	98.9
82.5°	66.6	66.1	66.1	65.6	65.1	65.1	64.5	63.0	61.0	65.1	69.2
85°	38.4	37.9	36.9	36.4	35.3	33.8	32.3	31.8	31.2	34.8	38.4
87.5°	4.1	3.6	2.6	2.0	1.0	0.5	0.0	0.0	0.0	2.0	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368306

CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1135.6	1127.4	1119.7	1112.0	1104.4	1096.7	1111.0	1125.4	1139.7	1154.0	1166.9
5°	1199.1	1196.6	1189.9	1183.8	1177.1	1170.4	1174.0	1178.1	1181.7	1185.3	1193.0
7.5°	1012.2	1009.1	1023.4	1037.3	1051.6	1065.4	1069.0	1072.1	1075.7	1078.7	1076.7
10°	917.4	943.5	950.2	956.3	963.0	969.1	979.4	989.6	999.4	1009.6	1015.2
12.5°	840.6	854.9	878.5	902.5	926.1	949.7	965.0	980.4	995.8	1011.1	1042.9
15°	746.3	758.1	776.0	793.9	811.9	829.8	851.8	874.4	896.4	918.4	953.3
17.5°	599.3	604.4	617.7	631.1	643.9	657.2	686.9	716.1	745.8	775.0	815.0
20°	503.0	497.4	497.4	497.9	497.9	497.9	527.6	556.8	586.5	615.7	668.5
22.5°	471.8	470.2	464.6	458.4	452.8	446.7	462.0	477.9	493.3	508.6	551.7
25°	461.0	455.4	448.2	441.0	433.9	426.7	436.4	446.1	455.9	465.6	499.4
27.5°	466.1	461.5	465.1	468.2	471.8	474.8	477.9	481.0	484.1	487.1	498.9
30°	504.5	503.0	508.6	513.8	519.4	524.5	517.3	510.7	503.5	496.3	500.4
32.5°	423.1	418.5	416.4	414.4	412.3	410.3	409.8	409.3	408.2	407.7	417.0
35°	381.6	377.5	374.4	371.4	367.8	364.7	366.2	367.3	368.8	369.8	380.1
37.5°	380.1	376.0	372.4	368.8	364.7	361.1	362.7	364.7	366.2	367.8	375.5
40°	377.5	372.4	370.3	368.3	366.2	364.2	365.2	366.2	366.8	367.8	373.4
42.5°	376.0	371.9	370.9	369.8	368.8	367.8	368.8	369.8	370.3	371.4	378.0
45°	372.4	370.3	371.4	372.4	373.4	374.4	374.4	374.4	374.4	374.4	381.6
47.5°	364.2	363.2	366.2	369.3	372.4	375.5	380.6	385.7	390.3	395.4	397.0
50°	353.9	353.9	359.1	364.2	368.8	373.9	386.2	398.0	410.3	422.1	414.4
52.5°	341.1	341.7	349.3	356.5	364.2	371.4	382.6	393.9	404.7	415.9	404.7
55°	322.7	324.2	334.0	343.2	352.9	362.1	370.9	379.6	388.3	397.0	385.2
57.5°	306.3	308.4	318.6	328.3	338.6	348.3	353.4	359.1	364.2	369.3	361.6
60°	290.9	294.0	307.3	320.7	333.5	346.8	342.7	338.6	334.0	329.9	329.4
62.5°	275.1	278.7	290.9	303.2	315.0	327.3	321.2	315.0	308.4	302.2	304.8
65°	255.1	258.7	264.3	269.9	275.1	280.7	280.2	280.2	279.7	279.2	284.3
67.5°	232.6	235.1	238.7	241.8	245.4	248.4	250.5	253.0	255.1	257.1	263.3
70°	208.5	211.0	214.6	217.7	221.3	224.4	226.9	229.5	231.5	234.1	240.2
72.5°	183.9	186.5	190.0	193.6	196.7	200.3	202.3	204.4	205.9	208.0	213.1
75°	157.8	160.8	164.4	167.5	171.1	174.2	175.7	177.2	178.8	180.3	184.9
77.5°	131.1	134.7	138.3	141.9	145.5	149.1	149.6	150.1	150.6	151.1	155.2
80°	103.0	107.6	111.2	114.7	118.3	121.9	121.9	121.9	121.9	121.9	124.0
82.5°	73.2	77.3	81.4	85.0	89.1	92.7	92.7	92.2	92.2	91.7	91.7
85°	42.0	45.6	48.1	51.2	53.8	56.3	56.3	56.3	55.8	55.8	54.8
87.5°	6.7	8.7	9.7	11.3	12.3	13.3	12.8	12.8	12.3	11.8	10.2
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: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1179.7	1192.5	1205.3	1203.2	1201.2	1199.1	1197.1	1204.8	1211.9	1219.6	1226.8
5°	1200.1	1207.8	1215.0	1220.6	1226.3	1231.9	1237.5	1263.7	1289.3	1315.4	1341.0
7.5°	1074.6	1072.1	1070.0	1094.1	1118.7	1142.8	1166.9	1200.1	1233.4	1266.7	1300.0
10°	1020.9	1026.5	1032.1	1041.9	1052.1	1061.8	1071.6	1104.4	1137.1	1169.9	1202.7
12.5°	1074.1	1105.9	1137.1	1144.8	1153.0	1160.7	1168.4	1175.0	1181.7	1187.9	1194.5
15°	988.1	1022.9	1057.7	1077.7	1097.7	1117.2	1137.1	1187.3	1237.0	1287.2	1336.9
17.5°	854.4	894.3	933.8	983.0	1032.1	1081.3	1130.5	1176.6	1222.7	1268.3	1314.4
20°	721.2	773.5	826.2	880.0	933.3	987.1	1040.3	1085.4	1130.5	1175.0	1220.1
22.5°	594.2	637.2	679.7	745.3	810.3	875.9	941.0	1025.0	1108.5	1192.5	1276.0
25°	532.7	566.5	599.8	667.4	735.0	802.1	869.8	978.9	1087.5	1196.6	1305.2
27.5°	511.2	523.0	534.8	596.2	657.2	718.7	779.6	897.4	1015.2	1132.5	1250.3
30°	504.5	508.6	512.7	560.9	609.0	657.2	705.3	821.6	938.4	1054.7	1170.9
32.5°	425.7	434.9	443.6	490.7	537.3	584.4	631.1	748.4	865.1	982.4	1099.2
35°	390.3	400.6	410.8	456.9	503.0	548.6	594.7	718.1	842.1	965.5	1089.0
37.5°	383.1	390.8	398.5	450.8	503.0	555.3	607.5	732.5	857.5	982.4	1107.4
40°	379.6	385.2	390.8	441.5	492.8	543.5	594.2	725.3	855.9	987.1	1117.7
42.5°	384.2	390.8	397.0	443.1	488.7	534.8	580.4	716.1	851.3	987.1	1122.3
45°	388.3	395.4	402.1	445.1	488.2	531.2	574.2	719.2	863.6	1008.6	1153.0
47.5°	398.0	399.5	400.6	438.0	474.8	512.2	549.1	696.6	844.1	991.2	1138.7
50°	406.2	398.5	390.3	429.2	467.7	506.6	545.0	684.8	824.7	964.0	1103.8
52.5°	393.4	381.6	370.3	412.3	454.3	495.8	537.8	677.7	818.0	957.9	1097.7
55°	373.9	362.1	350.4	392.9	435.4	477.9	520.4	659.7	799.6	938.9	1078.2
57.5°	354.5	346.8	339.1	373.9	409.3	444.1	478.9	630.0	780.6	931.7	1082.3
60°	328.8	327.8	327.3	354.5	382.1	409.3	436.4	584.4	732.0	880.0	1027.5
62.5°	306.8	309.4	311.4	333.5	355.5	377.0	399.0	541.9	685.4	828.3	971.2
65°	289.9	295.0	300.2	325.3	350.4	374.9	400.0	519.9	639.8	759.6	879.5
67.5°	269.4	275.6	281.7	314.5	347.3	380.1	412.9	511.7	610.6	709.4	808.3
70°	245.9	252.0	257.6	299.7	341.1	383.1	424.6	512.2	600.3	687.9	775.5
72.5°	218.2	223.3	228.5	273.5	318.6	363.7	408.8	483.0	557.3	631.1	705.3
75°	190.0	194.6	199.3	238.2	277.1	316.0	355.0	412.3	469.2	526.6	583.4
77.5°	158.8	162.9	166.5	192.6	218.7	244.8	271.0	315.0	358.6	402.6	446.1
80°	126.0	128.1	130.1	145.5	160.3	175.7	190.5	219.7	248.9	277.6	306.8
82.5°	92.2	92.2	92.2	101.9	112.2	121.9	131.6	146.5	160.8	175.7	190.0
85°	53.8	52.2	51.2	57.9	64.5	71.2	77.9	84.0	90.2	96.3	102.4
87.5°	8.7	6.7	5.1	9.2	13.3	17.4	21.5	23.6	26.1	28.2	30.2
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: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368306

CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1209.4	1192.5	1175.0	1157.6	1183.2	1208.9	1234.5	1260.1	1328.2	1368.7	1371.2
5°	1362.5	1384.0	1405.5	1427.1	1448.6	1470.1	1491.1	1512.6	1623.2	1691.4	1704.2
7.5°	1335.4	1371.2	1406.6	1441.9	1502.9	1563.8	1624.8	1685.7	1779.5	1847.1	1891.6
10°	1246.8	1290.8	1334.9	1378.9	1451.1	1523.9	1596.1	1668.3	1767.7	1856.8	1899.3
12.5°	1264.7	1334.9	1404.5	1474.7	1537.2	1600.2	1662.7	1725.2	1793.8	1827.6	1905.0
15°	1385.6	1434.2	1482.9	1531.6	1625.8	1719.5	1813.8	1907.5	1946.5	2023.8	2093.5
17.5°	1404.0	1493.1	1582.8	1671.9	1787.2	1902.4	2017.7	2132.9	2205.1	2305.0	2389.0
20°	1346.6	1472.6	1599.2	1725.2	1873.7	2022.8	2171.3	2319.9	2411.6	2495.6	2625.7
22.5°	1415.3	1554.6	1693.4	1832.7	2030.0	2226.6	2423.9	2620.5	2812.1	2999.6	3087.7
25°	1491.1	1677.5	1863.5	2049.4	2295.8	2541.7	2788.0	3033.9	3280.3	3456.0	3557.4
27.5°	1437.8	1624.8	1812.3	1999.2	2304.0	2609.3	2914.1	3218.8	3482.6	3694.2	3781.3
30°	1400.4	1629.9	1859.4	2088.9	2446.4	2803.9	3161.5	3519.0	3762.8	3998.9	4127.0
32.5°	1393.8	1688.3	1982.3	2276.8	2693.3	3109.2	3525.6	3941.6	4103.4	4312.9	4485.6
35°	1412.2	1735.9	2059.1	2382.4	2859.8	3337.2	3814.0	4291.4	4521.4	4728.9	4880.0
37.5°	1468.6	1829.7	2190.3	2551.4	3126.6	3702.4	4277.6	4852.8	5238.5	5618.1	5685.7
40°	1500.3	1883.5	2266.1	2648.7	3317.7	3986.7	4655.6	5324.6	5768.2	6184.6	6212.8
42.5°	1537.7	1953.1	2368.0	2783.4	3525.1	4267.4	5009.1	5750.8	6299.9	6747.5	6760.9
45°	1580.7	2007.9	2435.6	2862.8	3637.3	4411.3	5185.8	5959.7	6623.6	7167.6	7034.9
47.5°	1597.6	2057.1	2516.1	2975.0	3800.7	4625.9	5451.6	6276.8	6872.5	7367.3	7240.3
50°	1604.3	2105.2	2605.7	3106.1	3961.6	4817.5	5672.9	6528.3	7134.3	7616.8	7422.2
52.5°	1645.8	2193.9	2741.9	3290.0	4181.3	5072.6	5963.8	6855.1	7451.3	7914.9	7673.1
55°	1701.6	2325.0	2947.9	3571.2	4493.8	5415.8	6338.3	7260.3	7858.6	8289.9	7990.2
57.5°	1753.3	2424.9	3095.9	3766.9	4722.7	5679.0	6634.9	7590.7	8196.6	8623.3	8332.9
60°	1728.2	2429.0	3129.7	3830.4	4769.8	5708.8	6648.2	7587.1	8275.0	8786.7	8638.2
62.5°	1652.4	2333.7	3014.4	3695.7	4587.5	5478.8	6370.6	7261.8	8067.0	8723.2	8716.5
65°	1506.5	2133.4	2759.9	3386.8	4212.0	5037.7	5862.9	6688.1	7637.3	8434.3	8486.0
67.5°	1328.7	1849.1	2369.6	2890.0	3667.0	4444.1	5221.1	5998.2	7012.9	7892.4	7936.9
70°	1156.6	1538.2	1919.3	2300.4	2982.7	3665.0	4346.7	5029.0	6054.0	6943.7	6984.7
72.5°	954.8	1204.2	1453.2	1702.6	2255.3	2808.0	3360.2	3912.9	4812.9	5497.2	5728.2
75°	731.5	879.5	1027.5	1175.6	1622.7	2069.9	2516.6	2963.7	3562.0	4067.1	4327.3
77.5°	523.0	599.8	676.7	753.5	1133.6	1513.6	1893.2	2273.3	2587.8	2874.1	3049.8
80°	343.2	379.0	415.4	451.3	767.3	1083.4	1398.9	1714.9	1906.5	2060.2	2148.8
82.5°	208.0	225.9	243.3	261.2	517.3	773.5	1029.1	1285.2	1394.8	1468.0	1546.9
85°	112.2	121.9	131.6	141.4	305.8	469.7	634.1	798.0	808.8	817.5	934.8
87.5°	32.8	35.9	38.4	41.0	67.6	94.8	121.4	148.0	92.2	57.4	117.8
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: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368306

CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1356.4	1349.7	1343.1	1335.9	1329.2	1301.1	1273.4	1245.2	1217.0	1244.2	1270.8
5°	1689.3	1709.8	1729.8	1750.3	1770.8	1772.3	1773.3	1774.9	1775.9	1781.0	1786.1
7.5°	1929.0	1965.4	2001.3	2037.6	2074.0	2102.2	2130.3	2159.0	2187.2	2161.6	2136.0
10°	1949.5	2026.4	2103.2	2180.0	2256.9	2270.7	2284.0	2297.8	2311.7	2330.1	2348.0
12.5°	1970.0	2063.8	2157.0	2250.7	2344.5	2385.4	2425.9	2466.9	2507.3	2527.3	2546.8
15°	2186.7	2242.0	2296.8	2352.1	2406.9	2435.1	2462.8	2491.0	2519.1	2536.0	2552.4
17.5°	2465.3	2485.8	2505.8	2526.3	2546.8	2565.7	2584.7	2603.6	2622.6	2625.7	2628.7
20°	2719.4	2723.5	2727.1	2731.2	2734.8	2694.8	2655.4	2615.4	2575.5	2582.6	2589.3
22.5°	3100.5	3078.0	3055.9	3033.4	3011.4	2936.1	2861.3	2786.0	2711.2	2678.9	2647.2
25°	3674.2	3616.8	3559.5	3502.1	3444.7	3324.9	3205.5	3085.6	2966.3	2896.1	2826.5
27.5°	3859.1	3734.1	3609.7	3484.7	3359.7	3269.0	3178.9	3088.2	2998.1	2886.9	2775.8
30°	4233.0	4035.8	3839.1	3641.9	3444.7	3357.1	3269.5	3181.4	3093.8	2980.1	2866.9
32.5°	4564.4	4359.6	4154.7	3949.3	3744.4	3578.4	3412.4	3246.5	3080.5	3003.7	2926.9
35°	4948.1	4690.5	4432.8	4175.2	3917.5	3775.1	3633.2	3490.8	3348.9	3232.7	3116.9
37.5°	5506.9	5232.9	4958.9	4684.3	4410.3	4217.7	4025.6	3833.0	3640.9	3576.9	3513.4
40°	6039.7	5715.9	5392.7	5069.0	4745.8	4598.3	4450.7	4302.7	4155.2	4047.1	3939.0
42.5°	6485.8	6165.7	5846.0	5525.9	5206.3	5098.7	4991.6	4884.1	4777.0	4687.9	4598.8
45°	6639.0	6377.7	6117.0	5855.8	5594.5	5556.6	5519.2	5481.3	5443.9	5377.9	5311.8
47.5°	6885.3	6619.0	6353.1	6086.8	5820.4	5834.3	5848.1	5862.4	5876.3	5879.8	5882.9
50°	7030.3	6777.3	6524.7	6271.7	6019.2	6086.3	6152.9	6220.0	6287.1	6439.2	6590.8
52.5°	7241.8	6993.4	6745.5	6497.1	6248.6	6362.4	6475.6	6589.3	6702.5	6915.6	7128.6
55°	7507.2	7269.5	7032.3	6794.7	6557.5	6668.2	6778.3	6888.9	6999.1	7236.2	7473.4
57.5°	7859.1	7604.5	7350.4	7095.9	6841.8	6943.7	7045.2	7147.1	7248.5	7473.9	7699.3
60°	8259.6	7983.0	7706.4	7429.3	7152.7	7180.9	7208.6	7236.7	7264.4	7508.7	7752.5
62.5°	8456.3	8200.2	7944.6	7688.5	7432.4	7354.0	7275.7	7196.8	7118.4	7337.1	7555.3
65°	8285.8	8109.6	7933.9	7757.7	7581.5	7443.2	7305.4	7167.1	7028.8	7165.5	7301.8
67.5°	7742.8	7642.9	7543.5	7443.7	7343.8	7111.7	6879.7	6647.2	6415.1	6424.3	6433.0
70°	6862.8	6836.2	6810.0	6783.4	6756.8	6407.9	6059.6	5710.8	5362.0	5308.7	5255.4
72.5°	5747.7	5765.1	5782.0	5799.4	5816.8	5441.9	5066.9	4692.0	4317.0	4228.4	4139.8
75°	4451.8	4548.1	4644.4	4741.2	4837.5	4478.9	4120.3	3761.3	3402.7	3293.6	3184.5
77.5°	3145.6	3325.4	3504.6	3684.4	3864.2	3540.0	3216.3	2892.0	2567.8	2497.1	2426.4
80°	2193.4	2281.5	2369.6	2457.7	2545.8	2382.9	2220.0	2057.1	1894.2	1913.7	1932.6
82.5°	1597.6	1618.1	1638.1	1658.6	1679.1	1612.5	1545.9	1478.8	1412.2	1462.9	1513.6
85°	1023.4	1096.7	1169.4	1242.7	1315.4	1241.6	1167.9	1093.6	1019.8	1053.6	1087.5
87.5°	229.0	362.1	495.3	629.0	762.2	690.5	619.3	547.6	475.9	443.6	411.8
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: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368306

CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1298.0	1325.1	1316.9	1309.2	1301.1	1292.9	1307.7	1322.6	1337.9	1352.8	1347.7
5°	1791.8	1796.9	1748.2	1700.1	1651.4	1602.8	1633.0	1663.2	1693.4	1723.6	1712.9
7.5°	2110.4	2084.8	2056.6	2028.4	1999.7	1971.6	1965.4	1959.3	1952.6	1946.5	1938.3
10°	2366.5	2384.4	2366.0	2348.0	2329.6	2311.2	2268.1	2225.1	2181.6	2138.5	2120.6
12.5°	2566.8	2586.7	2591.3	2595.4	2600.1	2604.7	2556.5	2508.9	2460.7	2412.6	2369.0
15°	2569.3	2586.2	2601.1	2615.4	2630.3	2644.6	2614.9	2585.7	2556.0	2526.3	2512.5
17.5°	2632.3	2635.4	2623.1	2611.3	2599.0	2587.3	2575.5	2564.2	2552.4	2541.2	2519.1
20°	2596.5	2603.6	2602.1	2600.6	2598.5	2597.0	2598.0	2598.5	2599.5	2600.1	2587.8
22.5°	2614.9	2582.6	2589.3	2595.4	2602.1	2608.3	2626.7	2645.1	2664.1	2682.5	2731.7
25°	2756.3	2686.1	2675.4	2665.1	2654.4	2644.1	2692.3	2739.9	2788.0	2836.2	2916.1
27.5°	2664.1	2552.9	2528.3	2503.8	2479.2	2454.6	2527.8	2600.6	2673.8	2747.1	2828.5
30°	2753.2	2640.0	2585.7	2531.4	2476.6	2422.3	2492.5	2562.2	2632.3	2702.0	2792.1
32.5°	2850.0	2773.2	2736.8	2701.0	2664.6	2628.7	2634.4	2640.0	2645.6	2651.3	2778.3
35°	3000.6	2884.3	2848.5	2812.6	2776.8	2740.9	2800.9	2860.3	2920.2	2979.6	3087.2
37.5°	3449.3	3385.3	3320.8	3256.2	3191.2	3126.6	3162.0	3197.3	3232.7	3268.0	3369.4
40°	3830.9	3722.9	3712.1	3701.9	3691.1	3680.3	3683.4	3686.0	3689.0	3692.1	3778.7
42.5°	4509.1	4420.0	4365.2	4310.4	4255.6	4200.8	4197.2	4193.6	4189.5	4185.9	4251.0
45°	5245.2	5179.1	5138.1	5097.2	5055.7	5014.7	4949.6	4884.6	4819.0	4754.0	4810.8
47.5°	5886.5	5890.1	5964.4	6038.1	6112.4	6186.7	6075.5	5964.4	5853.2	5742.0	5668.8
50°	6742.9	6894.6	6912.5	6929.9	6947.8	6965.8	6777.3	6589.3	6400.8	6212.3	6135.4
52.5°	7342.2	7555.3	7527.7	7500.5	7472.9	7445.2	7336.1	7227.5	7118.4	7009.3	6841.8
55°	7711.0	7948.2	7927.2	7906.7	7885.7	7864.7	7785.3	7705.9	7626.5	7547.1	7363.2
57.5°	7924.6	8150.0	8156.2	8162.3	8168.5	8174.6	8153.6	8132.6	8111.6	8090.6	7851.4
60°	7996.9	8241.2	8243.8	8245.8	8248.4	8250.4	8217.1	8183.8	8150.0	8116.7	7960.5
62.5°	7774.0	7992.3	8002.0	8011.2	8020.9	8030.7	8007.6	7984.6	7961.5	7938.5	7822.7
65°	7438.5	7575.3	7577.9	7579.9	7582.5	7585.0	7526.6	7468.8	7410.4	7352.0	7324.3
67.5°	6442.3	6451.5	6505.8	6560.1	6614.4	6668.7	6673.3	6677.9	6683.0	6687.6	6647.7
70°	5202.2	5148.9	5207.8	5266.7	5325.6	5384.5	5409.6	5434.7	5460.3	5485.4	5503.9
72.5°	4050.7	3962.1	4005.6	4049.1	4093.2	4136.7	4099.3	4061.9	4024.6	3987.2	4105.5
75°	3075.4	2966.3	2960.7	2955.5	2949.9	2944.8	2925.8	2906.9	2887.4	2868.5	2979.1
77.5°	2355.2	2284.5	2288.1	2291.2	2294.8	2297.8	2278.4	2259.4	2240.0	2220.5	2263.0
80°	1952.1	1971.0	1971.6	1972.1	1972.6	1973.1	1954.7	1936.7	1918.3	1899.8	1869.1
82.5°	1564.8	1615.6	1615.0	1615.0	1614.5	1614.0	1613.0	1612.0	1610.4	1609.4	1559.2
85°	1121.3	1155.1	1120.2	1085.4	1050.6	1015.7	1041.4	1067.0	1093.1	1118.7	1097.7
87.5°	379.6	347.8	306.3	265.3	223.8	182.4	226.9	271.5	316.6	361.1	386.7
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: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368306

CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1343.1	1337.9	1333.3	1301.1	1268.3	1236.0	1203.2	1262.6	1322.6	1382.0	1441.4
5°	1702.6	1691.9	1681.6	1679.1	1676.5	1673.4	1670.9	1701.1	1731.3	1761.0	1791.3
7.5°	1930.1	1921.9	1913.7	1892.2	1871.2	1849.6	1828.1	1846.6	1864.5	1882.9	1900.9
10°	2103.2	2085.3	2067.3	2020.7	1974.6	1928.0	1881.4	1867.6	1853.7	1839.9	1826.1
12.5°	2325.5	2281.5	2237.9	2185.2	2131.9	2079.1	2025.9	2018.7	2011.5	2004.9	1997.7
15°	2499.1	2485.3	2471.5	2429.5	2387.5	2345.5	2303.5	2247.1	2190.3	2133.9	2077.6
17.5°	2497.6	2475.6	2454.1	2510.4	2566.3	2622.6	2678.4	2618.5	2558.1	2498.1	2438.2
20°	2575.5	2562.7	2550.4	2654.4	2757.8	2861.8	2965.3	2932.5	2899.2	2866.4	2833.1
22.5°	2780.4	2829.5	2878.2	2967.3	3055.9	3145.1	3233.7	3271.1	3308.5	3345.9	3383.3
25°	2995.5	3075.4	3155.3	3288.0	3420.1	3552.8	3685.5	3712.1	3738.7	3765.4	3792.0
27.5°	2909.4	2990.9	3072.3	3172.7	3272.6	3373.0	3472.9	3589.7	3707.0	3823.8	3940.6
30°	2881.8	2971.9	3061.6	3199.4	3336.6	3474.4	3612.2	3773.1	3933.9	4094.2	4255.1
32.5°	2904.8	3031.9	3158.9	3345.3	3531.3	3717.7	3904.2	4073.2	4242.8	4411.8	4580.8
35°	3194.2	3301.8	3408.9	3617.3	3825.8	4034.3	4242.8	4441.0	4639.2	4836.9	5035.2
37.5°	3470.3	3571.7	3673.2	3886.3	4098.8	4311.9	4525.0	4838.0	5151.5	5464.4	5777.4
40°	3864.7	3951.3	4037.4	4219.7	4402.1	4584.4	4766.8	5144.3	5521.8	5899.3	6276.8
42.5°	4315.5	4380.6	4445.1	4634.1	4823.1	5012.1	5201.1	5611.9	6023.3	6434.1	6844.9
45°	4867.2	4924.0	4980.9	5111.0	5241.1	5371.7	5501.8	5925.4	6349.0	6772.6	7196.3
47.5°	5595.6	5522.3	5449.1	5513.1	5577.1	5641.1	5705.2	6124.2	6543.2	6961.7	7380.7
50°	6058.6	5981.8	5904.9	5910.6	5915.7	5921.3	5927.0	6317.8	6708.6	7098.9	7489.8
52.5°	6674.3	6506.3	6338.8	6337.3	6335.7	6333.7	6332.1	6672.8	7013.9	7354.5	7695.2
55°	7179.4	6995.5	6811.6	6775.7	6739.9	6703.5	6667.6	7004.7	7341.2	7678.3	8014.8
57.5°	7612.2	7372.5	7133.3	7076.9	7020.6	6964.2	6907.9	7271.0	7634.7	7997.9	8361.1
60°	7804.8	7648.6	7492.8	7423.7	7354.5	7285.4	7216.2	7525.6	7835.0	8143.9	8453.3
62.5°	7707.5	7591.7	7476.4	7492.3	7508.2	7524.1	7540.0	7716.7	7893.9	8070.6	8247.3
65°	7297.2	7269.5	7242.4	7370.4	7498.5	7626.5	7754.6	7757.1	7759.7	7762.3	7764.8
67.5°	6607.7	6567.8	6527.8	6794.2	7060.0	7326.4	7592.7	7466.2	7339.7	7213.7	7087.2
70°	5521.8	5540.2	5558.2	5920.8	6283.0	6645.6	7008.3	6824.9	6641.0	6457.6	6273.7
72.5°	4223.8	4342.6	4461.0	4836.9	5212.9	5588.9	5964.9	5755.4	5545.4	5335.9	5125.8
75°	3089.7	3200.4	3311.0	3682.4	4053.8	4425.6	4797.0	4548.1	4299.1	4050.7	3801.7
77.5°	2305.5	2348.6	2391.1	2699.9	3008.3	3317.2	3625.5	3375.6	3125.6	2876.1	2626.2
80°	1838.9	1808.2	1777.9	1949.0	2120.1	2291.2	2462.3	2285.0	2107.3	1930.1	1752.8
82.5°	1509.5	1459.3	1409.6	1473.2	1536.7	1600.7	1664.2	1522.3	1380.4	1238.6	1096.7
85°	1076.7	1055.7	1034.7	1053.1	1071.1	1089.5	1107.9	969.6	831.3	693.6	555.3
87.5°	411.8	437.4	463.1	492.2	520.9	550.1	578.8	453.3	327.8	202.8	77.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368306
 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



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 CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1113.1	1113.1
2.5°	1466.0	1490.6
5°	1790.7	1790.2
7.5°	1892.7	1884.0
10°	1803.5	1781.0
12.5°	1931.1	1864.0
15°	2011.0	1943.9
17.5°	2337.3	2235.9
20°	2712.7	2591.9
22.5°	3199.4	3015.5
25°	3572.3	3352.0
27.5°	3809.9	3678.8
30°	4105.0	3954.9
32.5°	4470.2	4359.0
35°	4933.8	4831.8
37.5°	5745.6	5713.4
40°	6238.4	6199.5
42.5°	6846.4	6847.4
45°	7219.3	7242.4
47.5°	7439.1	7496.9
50°	7614.2	7738.2
52.5°	7864.7	8034.3
55°	8240.2	8465.0
57.5°	8552.6	8744.2
60°	8552.6	8651.5
62.5°	8244.8	8241.7
65°	7717.2	7669.0
67.5°	7026.7	6966.3
70°	6179.5	6084.7
72.5°	5008.5	4890.7
75°	3640.4	3478.5
77.5°	2549.3	2472.0
80°	1790.2	1827.6
82.5°	1149.9	1203.2
85°	547.1	538.9
87.5°	64.5	51.7
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: P368306
CATALOG NUMBER: MSA-SA4A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)