

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: P368438

Luminaire Tested: **MSA-SA4B-830-U-SLR**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368438
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-SA4B-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: 13226 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

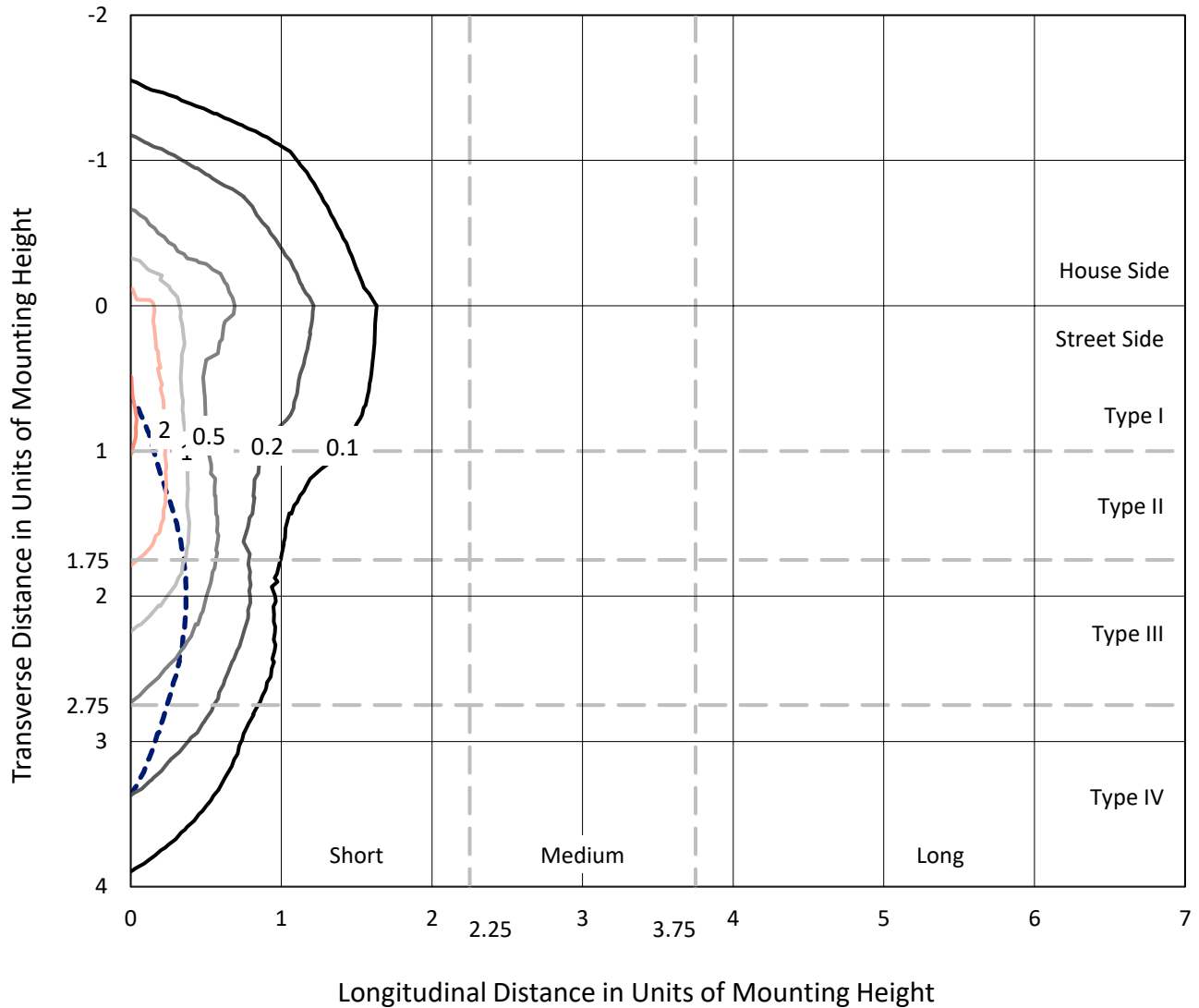
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

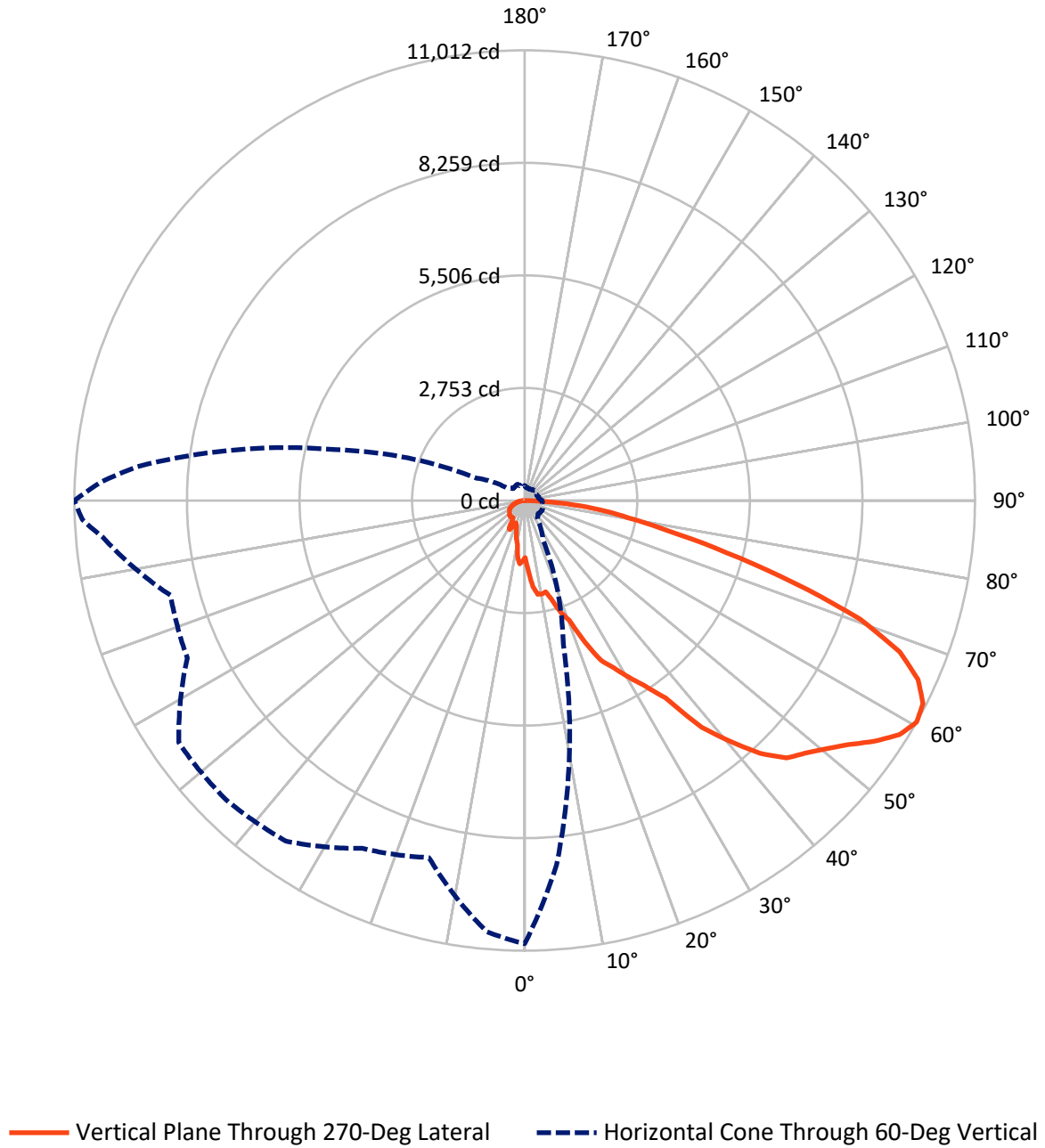
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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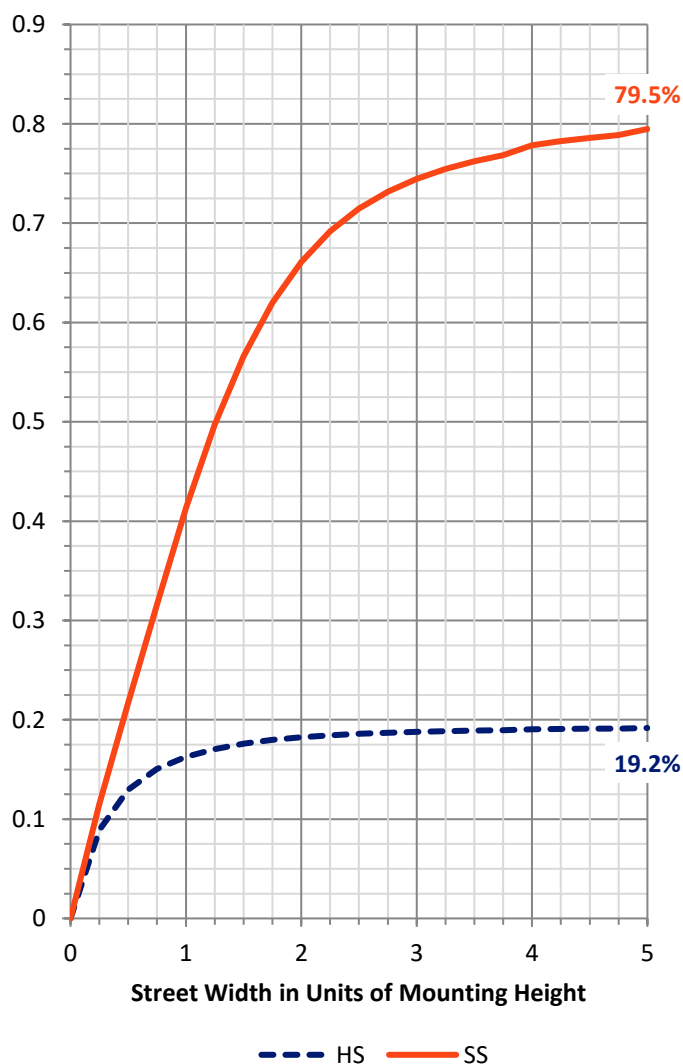
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2561.6	0.0	2561.6
	% Fixture	19.4	0.0	19.4
Street Side	Lumens	10664.4	0.0	10664.4
	% Fixture	80.6	0.0	80.6
Total	Lumens	13226.0	0.0	13226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	1.2
10°-20°	464.7	3.5
20°-30°	820.4	6.2
30°-40°	1277.7	9.7
40°-50°	2103.6	15.9
50°-60°	3002.5	22.7
60°-70°	3183.7	24.1
70°-80°	1758.5	13.3
80°-90°	455.0	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°	13226.0	100.0
0°-180°	13226.0	100.0

Coefficient of Utilization



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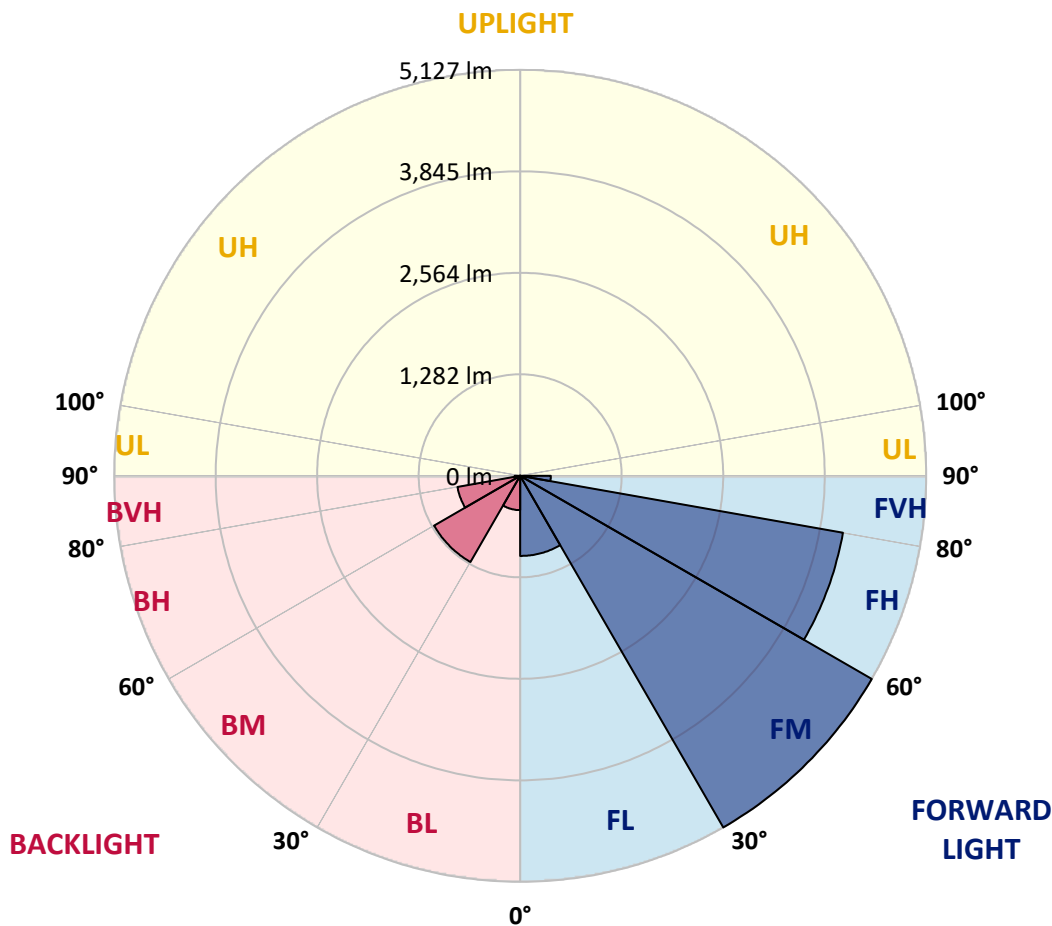
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.0	7.7			
FM (30°-60°)	5127.2	38.8			
FH (60°-80°)	4138.5	31.3			G2/5000
FVH (80°-90°)	386.7	2.9			G3/500
BL (0°-30°)	433.0	3.3	B1/500		
BM (30°-60°)	1256.5	9.5	B2/2500		
BH (60°-80°)	803.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	68.3	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°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1868.1	1879.7	1890.6	1868.8	1846.9	1824.5	1802.6	1769.9	1736.5	1703.8	1670.4
5°	2243.7	2201.3	2158.3	2141.0	2124.3	2106.9	2089.6	2073.6	2057.5	2040.8	2024.8
7.5°	2361.2	2300.8	2239.8	2214.2	2188.5	2162.2	2136.5	2078.7	2020.9	1962.5	1904.7
10°	2232.1	2169.2	2105.7	2080.6	2054.9	2029.9	2004.2	1933.6	1863.6	1793.0	1722.4
12.5°	2336.1	2271.9	2207.1	2127.5	2047.9	1967.6	1888.0	1848.9	1809.7	1769.9	1730.7
15°	2436.3	2349.6	2262.3	2182.7	2103.1	2022.8	1943.2	1864.9	1786.6	1708.3	1630.0
17.5°	2802.2	2657.8	2513.3	2369.5	2225.1	2081.3	1936.8	1846.3	1755.1	1664.6	1573.5
20°	3248.4	3047.4	2845.8	2627.6	2408.7	2190.4	1971.5	1857.2	1743.6	1629.3	1515.0
22.5°	3779.3	3525.7	3272.1	2996.7	2721.3	2445.3	2169.9	2004.2	1838.6	1672.3	1506.7
25°	4201.0	3957.1	3713.1	3363.9	3014.7	2665.5	2316.2	2128.1	1940.0	1751.3	1563.2
27.5°	4610.6	4222.2	3833.2	3433.2	3033.9	2634.0	2234.1	2060.1	1886.1	1712.1	1538.2
30°	4956.6	4648.5	4340.4	3818.4	3296.5	2773.9	2252.0	2038.3	1824.5	1610.7	1396.9
32.5°	5463.2	5023.4	4583.0	4038.6	3494.2	2949.8	2405.5	2132.0	1858.5	1585.0	1311.5
35°	6055.7	5598.6	5141.5	4468.1	3795.3	3121.9	2448.5	2158.9	1868.8	1579.2	1289.1
37.5°	7160.5	6354.8	5548.5	4813.5	4078.4	3342.7	2607.7	2271.3	1934.9	1597.9	1261.5
40°	7769.7	7025.1	6280.4	5364.3	4448.2	3531.5	2615.4	2271.3	1926.5	1582.5	1237.7
42.5°	8581.8	7640.1	6697.7	5707.1	4717.2	3726.6	2736.1	2354.7	1973.4	1591.4	1210.1
45°	9076.8	8027.2	6976.9	5918.3	4859.7	3801.1	2742.5	2355.4	1968.3	1581.2	1194.1
47.5°	9395.9	8388.0	7379.4	6239.9	5100.4	3960.3	2820.8	2410.0	1998.4	1587.6	1176.1
50°	9698.2	8700.0	7701.1	6517.9	5335.4	4152.3	2969.1	2520.4	2071.6	1622.3	1173.5
52.5°	10069.3	9150.0	8230.0	6960.9	5691.1	4421.9	3152.1	2663.5	2175.0	1686.5	1197.9
55°	10609.2	9703.4	8796.9	7434.6	6071.7	4709.5	3346.6	2804.1	2262.3	1719.8	1177.4
57.5°	10959.0	10040.4	9121.7	7732.5	6343.3	4953.4	3564.2	2963.3	2362.4	1760.9	1160.0
60°	10842.9	9895.3	8947.1	7622.7	6298.4	4974.0	3649.6	3000.6	2352.2	1703.1	1054.1
62.5°	10329.3	9322.0	8314.8	7128.4	5942.7	4756.3	3570.0	2910.0	2250.7	1590.8	930.9
65°	9611.6	8570.3	7528.4	6458.2	5388.0	4317.9	3247.7	2648.8	2049.2	1450.2	850.6
67.5°	8730.8	7645.2	6559.0	5611.4	4663.9	3715.7	2768.2	2267.4	1767.3	1266.6	765.9
70°	7625.9	6559.0	5492.0	4672.2	3852.5	3032.7	2212.9	1836.0	1459.8	1083.0	706.2
72.5°	6129.5	5208.9	4288.4	3643.2	2998.0	2352.8	1707.6	1445.7	1184.4	922.5	660.6
75°	4359.6	3818.4	3277.3	2775.2	2273.2	1770.6	1268.5	1099.1	929.6	760.1	590.6
77.5°	3098.1	2779.1	2460.0	2066.5	1673.0	1279.4	885.9	786.4	687.5	588.0	488.5
80°	2290.5	2024.1	1757.7	1461.1	1164.5	867.9	571.4	522.6	474.4	425.6	376.8
82.5°	1508.0	1387.9	1267.2	1032.3	797.3	562.4	327.4	309.4	291.5	273.5	255.5
85°	675.4	713.2	750.5	606.7	462.2	318.4	174.0	165.6	157.3	148.9	140.6
87.5°	64.8	95.7	126.5	108.5	89.9	71.9	53.3	52.6	52.6	52.0	51.4
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



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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°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1679.4	1688.4	1697.4	1706.4	1696.7	1687.1	1676.8	1667.2	1655.0	1642.8	1630.0
5°	1997.8	1970.2	1943.2	1915.6	1874.5	1833.5	1791.7	1750.6	1745.5	1739.7	1734.6
7.5°	1854.0	1803.9	1753.2	1702.5	1638.3	1574.7	1510.6	1446.4	1427.1	1407.8	1388.6
10°	1688.4	1653.7	1619.7	1585.0	1545.2	1505.4	1465.0	1425.2	1372.5	1319.2	1266.6
12.5°	1674.3	1617.8	1560.6	1504.1	1479.7	1455.3	1430.9	1406.6	1360.3	1314.1	1267.2
15°	1584.4	1538.2	1492.6	1446.4	1411.0	1375.7	1340.4	1305.1	1267.9	1230.0	1192.8
17.5°	1520.8	1468.2	1415.5	1362.9	1322.5	1282.0	1240.9	1200.5	1155.5	1110.0	1065.0
20°	1454.7	1395.0	1334.7	1274.3	1223.0	1172.2	1120.9	1069.5	1020.1	971.3	921.9
22.5°	1427.7	1348.8	1269.8	1190.9	1136.9	1082.4	1028.4	973.9	928.3	882.7	837.1
25°	1468.8	1375.1	1280.7	1186.4	1113.8	1040.6	968.1	894.9	857.0	819.2	780.6
27.5°	1420.7	1302.6	1185.1	1067.0	989.3	911.0	833.3	755.0	749.2	743.4	737.0
30°	1273.0	1149.1	1025.2	901.3	830.1	758.2	686.9	615.0	601.5	587.4	573.9
32.5°	1185.1	1058.6	932.1	805.7	742.1	677.9	614.4	550.2	534.8	519.4	503.9
35°	1151.7	1014.3	876.9	739.5	685.0	630.4	575.8	521.3	510.4	500.1	489.2
37.5°	1124.7	988.6	851.9	715.2	662.5	609.9	556.6	503.9	495.6	487.3	478.9
40°	1099.1	961.0	822.4	683.7	636.8	590.6	543.7	496.9	491.7	486.6	480.8
42.5°	1075.9	941.8	807.0	672.8	631.1	590.0	548.2	506.5	501.4	496.2	491.1
45°	1063.1	932.1	801.2	670.2	640.0	609.9	579.1	548.9	536.7	524.5	511.6
47.5°	1053.5	930.9	808.2	685.6	654.2	622.7	591.3	559.8	548.9	538.0	526.4
50°	1055.4	937.9	819.8	701.7	663.8	625.3	587.4	548.9	547.6	546.3	545.0
52.5°	1072.7	948.2	823.0	697.8	656.7	615.6	573.9	532.8	541.2	548.9	557.2
55°	1047.7	918.0	787.7	658.0	618.9	580.3	541.2	502.0	512.9	523.2	534.1
57.5°	1019.4	878.9	738.3	597.7	568.1	538.6	508.4	478.9	490.5	502.7	514.2
60°	925.7	797.3	668.9	540.5	520.6	500.7	480.8	460.9	466.1	471.2	476.3
62.5°	823.0	714.5	606.7	498.2	482.8	466.7	451.3	435.3	435.3	435.9	435.9
65°	757.5	664.4	571.4	478.3	460.9	443.6	425.6	408.3	405.7	403.2	400.6
67.5°	692.0	618.9	545.0	471.2	446.2	421.8	396.7	371.7	368.5	365.9	362.7
70°	640.7	575.2	509.7	444.2	416.0	388.4	360.1	331.9	329.3	327.4	324.8
72.5°	599.0	538.0	476.3	414.7	385.2	355.0	325.5	295.3	293.4	291.5	288.9
75°	536.0	482.1	427.6	373.0	344.1	315.8	287.0	258.1	255.5	253.6	251.0
77.5°	443.6	398.0	353.1	307.5	285.0	263.2	240.7	218.3	217.0	215.7	213.8
80°	341.5	306.2	270.3	235.0	220.2	204.8	190.0	174.6	174.0	173.3	172.0
82.5°	234.3	213.1	191.9	170.8	159.9	148.3	137.4	125.8	126.5	127.1	127.8
85°	133.5	125.8	118.8	111.1	102.1	93.7	84.7	75.8	77.7	79.6	80.9
87.5°	48.8	46.2	43.7	41.1	36.6	32.7	28.2	23.8	25.0	27.0	28.2
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: P368438
 CATALOG NUMBER: MSA-SA4B-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: P368438

CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1617.8	1598.5	1579.2	1560.0	1540.7	1500.9	1461.8	1422.0	1382.2	1406.6	1431.6
5°	1728.8	1696.1	1662.7	1630.0	1596.6	1578.0	1559.3	1540.7	1522.1	1531.7	1542.0
7.5°	1369.3	1350.1	1330.2	1310.9	1291.0	1282.7	1275.0	1266.6	1258.3	1282.0	1305.8
10°	1213.3	1186.4	1159.4	1131.8	1104.8	1088.8	1072.7	1056.7	1040.6	1047.1	1053.5
12.5°	1221.0	1181.2	1141.4	1101.6	1061.8	1038.1	1014.3	990.6	966.8	972.6	978.4
15°	1154.9	1113.8	1072.7	1031.6	990.6	963.0	934.7	907.1	878.9	869.2	859.0
17.5°	1019.4	974.5	929.6	884.6	839.7	821.1	802.5	783.8	765.2	755.0	744.7
20°	872.4	830.7	789.0	747.3	705.5	692.7	679.8	666.4	653.5	647.1	640.0
22.5°	791.5	765.9	739.5	713.9	687.5	672.8	658.7	643.9	629.1	622.1	614.4
25°	742.8	747.9	753.7	758.8	763.9	757.5	750.5	744.0	737.0	739.5	741.5
27.5°	731.2	742.1	753.7	764.6	775.5	781.3	787.1	792.8	798.6	800.5	802.5
30°	559.8	565.6	570.7	576.5	581.6	597.7	613.7	629.1	645.2	670.2	695.9
32.5°	488.5	486.6	484.7	482.1	480.2	484.0	487.9	491.1	495.0	503.9	513.6
35°	478.3	473.8	468.6	464.1	459.0	460.9	462.9	464.8	466.7	473.8	480.8
37.5°	470.6	468.6	467.4	465.4	463.5	468.0	471.8	476.3	480.2	486.0	491.7
40°	475.7	475.1	474.4	473.1	472.5	475.1	477.6	480.2	482.8	490.5	498.2
42.5°	486.0	486.0	485.3	485.3	484.7	487.3	489.2	491.7	493.7	498.2	502.7
45°	499.5	498.2	497.5	496.2	495.0	494.3	494.3	493.7	493.0	495.6	498.8
47.5°	515.5	511.0	505.9	501.4	496.2	495.0	493.0	491.7	489.8	491.1	492.4
50°	543.7	531.6	520.0	507.8	495.6	492.4	489.2	486.0	482.8	482.1	482.1
52.5°	564.9	547.0	529.0	511.0	493.0	487.3	481.5	475.7	469.9	468.6	468.0
55°	544.4	530.9	518.1	504.6	491.1	482.8	473.8	465.4	456.4	454.5	452.6
57.5°	525.8	517.4	509.1	500.7	492.4	484.0	475.1	466.7	457.7	453.2	448.7
60°	481.5	481.5	482.1	482.1	482.1	473.1	464.1	455.2	446.2	441.7	437.8
62.5°	435.9	443.0	449.4	456.4	462.9	450.7	437.8	425.6	412.8	409.6	407.0
65°	398.0	399.9	402.5	404.4	406.4	396.7	387.1	377.5	367.8	365.9	363.4
67.5°	359.5	358.9	358.2	356.9	356.3	350.5	344.1	338.3	331.9	329.3	326.8
70°	322.3	321.6	321.0	319.7	319.1	313.9	308.8	303.7	298.5	296.6	294.7
72.5°	287.0	286.3	285.0	284.4	283.1	278.6	274.8	270.3	265.8	263.2	260.6
75°	248.4	247.2	245.9	244.6	243.3	239.5	235.6	231.1	227.3	224.7	222.1
77.5°	212.5	210.6	208.6	206.1	204.1	200.9	197.1	193.9	190.0	186.8	184.2
80°	171.4	170.1	168.8	166.9	165.6	162.4	159.2	155.4	152.1	148.3	145.1
82.5°	128.4	127.8	126.5	125.8	124.5	121.3	118.1	114.9	111.7	107.9	104.0
85°	82.8	82.2	81.5	80.9	80.2	77.7	75.8	73.2	70.6	66.8	63.6
87.5°	29.5	28.2	27.6	26.3	25.0	24.4	23.1	22.5	21.2	19.3	17.3
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: P368438
 CATALOG NUMBER: MSA-SA4B-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: P368438

CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1456.0	1480.4	1481.0	1481.0	1492.6	1503.5	1481.0	1458.6	1435.4	1413.0	1390.5
5°	1551.6	1561.3	1558.7	1555.5	1541.4	1527.2	1512.5	1497.7	1482.9	1468.2	1468.8
7.5°	1329.5	1353.3	1372.5	1391.1	1373.2	1355.2	1345.6	1335.9	1326.3	1316.7	1315.4
10°	1059.2	1065.7	1073.4	1080.4	1069.5	1058.0	1077.2	1096.5	1115.1	1134.4	1113.2
12.5°	984.1	989.9	976.4	962.3	957.8	953.3	948.8	943.7	939.2	934.1	931.5
15°	849.3	839.1	828.8	817.9	815.3	812.1	808.9	805.0	801.8	798.0	786.4
17.5°	734.4	724.1	706.8	688.8	681.8	674.1	672.1	670.2	667.6	665.7	654.8
20°	633.6	626.6	622.1	616.9	609.9	602.8	595.7	588.7	581.0	573.9	563.6
22.5°	607.3	599.6	593.8	587.4	586.1	584.8	572.0	558.5	545.7	532.2	526.4
25°	744.0	746.0	710.7	674.7	671.5	668.3	645.2	621.4	598.3	574.6	554.7
27.5°	803.7	805.7	804.4	803.1	792.8	781.9	742.8	703.0	663.8	624.0	595.7
30°	720.9	746.0	755.6	765.2	758.2	750.5	709.4	668.9	627.8	586.8	568.1
32.5°	522.6	531.6	547.6	563.0	571.4	579.1	566.2	553.4	540.5	527.7	524.5
35°	487.3	494.3	497.5	500.7	495.6	490.5	480.8	471.2	460.9	451.3	449.4
37.5°	496.9	502.7	509.1	515.5	501.4	486.6	475.7	465.4	454.5	443.6	434.6
40°	505.9	513.6	517.4	521.3	507.2	493.0	479.6	466.7	453.2	439.7	430.8
42.5°	507.2	511.6	518.7	525.8	505.9	485.3	473.1	460.3	448.1	435.3	426.3
45°	501.4	503.9	510.4	516.8	493.7	469.9	459.0	447.5	436.5	425.0	417.3
47.5°	493.0	494.3	499.5	503.9	479.6	454.5	444.2	434.0	423.1	412.8	405.1
50°	481.5	480.8	484.7	487.9	462.9	437.8	427.6	417.9	407.7	397.4	391.0
52.5°	466.7	465.4	469.3	472.5	446.2	419.8	410.9	402.5	393.5	384.5	379.4
55°	450.0	448.1	451.3	454.5	428.8	402.5	394.8	386.5	378.8	370.4	365.9
57.5°	443.6	439.1	441.0	443.0	414.1	385.2	377.5	369.8	362.1	354.4	351.2
60°	433.3	428.8	430.8	432.0	401.2	369.8	362.7	355.0	347.9	340.2	337.0
62.5°	403.8	400.6	403.2	405.7	378.1	349.9	343.5	337.7	331.3	324.8	320.3
65°	361.4	358.9	364.0	369.1	345.4	321.6	317.8	313.9	309.4	305.6	301.1
67.5°	324.2	321.6	326.8	331.9	314.6	297.2	293.4	289.5	285.7	281.8	279.3
70°	292.7	290.8	295.3	299.8	285.0	270.3	266.4	263.2	259.4	255.5	253.6
72.5°	257.4	254.9	260.6	265.8	253.6	240.7	237.5	233.7	230.5	226.6	225.3
75°	219.6	217.0	222.1	226.6	218.3	209.3	206.1	202.9	199.7	196.4	195.8
77.5°	181.0	177.8	183.0	187.5	182.3	176.5	174.0	170.8	168.2	165.0	165.0
80°	141.2	137.4	141.2	144.4	142.5	140.6	138.7	136.1	134.2	131.6	132.2
82.5°	100.1	96.3	98.2	100.1	101.4	102.7	102.7	102.7	102.7	102.7	102.7
85°	59.7	55.9	56.5	57.1	59.1	61.0	61.6	62.3	62.9	63.6	64.2
87.5°	15.4	13.5	12.2	10.3	12.2	13.5	14.8	15.4	16.7	17.3	17.3
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: P368438
 CATALOG NUMBER: MSA-SA4B-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: P368438

CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1368.0	1344.9	1322.5	1336.6	1350.1	1364.2	1377.7	1378.3	1378.3	1378.9	1378.9
5°	1470.1	1470.8	1471.4	1457.9	1445.1	1431.6	1418.1	1411.0	1404.0	1396.3	1389.2
7.5°	1313.5	1312.2	1310.3	1297.4	1284.6	1271.7	1258.9	1228.1	1196.6	1165.8	1134.4
10°	1091.3	1070.2	1048.3	1043.2	1038.7	1033.6	1028.4	1020.1	1012.4	1004.0	995.7
12.5°	928.9	926.4	923.8	910.3	896.8	882.7	869.2	869.2	869.2	869.2	869.2
15°	774.2	762.7	750.5	744.0	737.0	730.6	723.5	720.3	717.1	713.9	710.7
17.5°	643.3	632.3	620.8	619.5	618.2	616.9	615.6	612.4	609.2	606.0	602.8
20°	553.4	543.1	532.8	536.7	540.5	543.7	547.6	544.4	541.2	537.3	534.1
22.5°	520.0	514.2	507.8	504.6	501.4	497.5	494.3	494.3	495.0	495.0	495.0
25°	535.4	515.5	495.6	486.0	476.3	466.1	456.4	452.6	449.4	445.5	441.7
27.5°	567.5	538.6	510.4	493.7	477.0	460.3	443.6	436.5	428.8	421.8	414.1
30°	548.9	530.3	511.0	491.7	472.5	453.2	434.0	425.0	416.0	406.4	397.4
32.5°	521.3	517.4	514.2	496.2	478.3	459.6	441.7	437.8	434.6	430.8	426.9
35°	446.8	444.9	442.3	437.8	433.3	428.8	424.3	419.2	414.1	408.9	403.8
37.5°	426.3	417.3	408.3	406.4	404.4	402.5	400.6	398.7	396.7	394.2	392.2
40°	421.8	412.8	403.8	400.6	397.4	393.5	390.3	391.0	392.2	392.9	393.5
42.5°	416.6	407.7	398.0	395.5	392.9	390.3	387.7	388.4	389.7	390.3	391.0
45°	410.2	402.5	394.8	390.3	386.5	382.0	377.5	381.3	385.2	388.4	392.2
47.5°	397.4	389.0	381.3	378.8	376.2	373.0	370.4	374.3	378.1	381.3	385.2
50°	383.9	377.5	370.4	369.8	369.1	367.8	367.2	369.8	372.3	374.9	377.5
52.5°	373.6	368.5	362.7	362.7	362.1	362.1	361.4	364.0	366.6	368.5	371.1
55°	362.1	357.6	353.1	353.7	355.0	355.7	356.3	358.9	362.1	364.6	367.2
57.5°	347.3	344.1	340.2	342.8	344.7	347.3	349.2	351.2	353.7	355.7	357.6
60°	333.2	330.0	326.1	328.7	331.9	334.5	337.0	339.0	340.9	342.8	344.7
62.5°	315.8	310.7	306.2	310.1	313.3	317.1	320.3	321.6	323.6	324.8	326.1
65°	297.2	292.7	288.2	290.8	293.4	295.3	297.9	299.8	301.7	303.7	305.6
67.5°	276.0	273.5	270.3	272.2	274.1	276.0	278.0	278.6	278.6	279.3	279.3
70°	251.0	249.1	246.5	247.8	249.7	251.0	252.3	252.3	252.3	251.7	251.7
72.5°	224.7	223.4	222.1	222.8	224.0	224.7	225.3	224.7	224.0	223.4	222.8
75°	195.2	194.5	193.9	194.5	195.8	196.4	197.1	196.4	195.2	194.5	193.2
77.5°	165.6	165.6	165.6	165.6	166.3	166.3	166.3	165.0	163.7	162.4	161.1
80°	132.9	133.5	134.2	134.2	134.2	134.2	134.2	132.9	131.6	129.7	128.4
82.5°	102.7	102.7	102.7	102.7	103.4	103.4	103.4	100.1	97.6	94.4	91.2
85°	64.2	64.8	64.8	65.5	66.1	66.1	66.8	62.3	58.4	53.9	49.4
87.5°	17.3	17.3	17.3	17.3	17.3	16.7	16.7	12.8	8.3	4.5	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: P368438
 CATALOG NUMBER: MSA-SA4B-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: P368438

CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1382.8	1386.7	1389.9	1393.7	1394.4	1395.0	1395.0	1395.6	1382.2	1368.7	1354.6
5°	1398.9	1407.8	1417.5	1426.5	1424.5	1422.6	1420.7	1418.8	1414.9	1411.7	1407.8
7.5°	1127.3	1120.9	1113.8	1106.8	1112.5	1118.3	1124.1	1129.9	1132.4	1135.0	1136.9
10°	979.6	963.6	947.5	931.5	922.5	912.9	903.9	894.3	893.0	892.3	891.1
12.5°	852.5	835.2	818.5	801.2	796.0	790.3	785.1	779.4	784.5	789.6	794.1
15°	703.6	697.2	690.1	683.1	688.8	694.6	700.4	706.2	711.3	715.8	720.9
17.5°	599.6	597.0	593.8	590.6	595.7	601.5	606.7	611.8	623.4	634.9	646.5
20°	531.6	529.6	527.1	524.5	522.6	520.0	518.1	515.5	532.2	548.2	564.9
22.5°	491.1	487.3	483.4	479.6	480.2	480.8	480.8	481.5	495.0	509.1	522.6
25°	440.4	439.1	437.8	436.5	440.4	444.2	447.5	451.3	463.5	475.7	487.3
27.5°	414.7	415.4	416.0	416.6	421.8	427.6	432.7	437.8	446.2	454.5	462.9
30°	400.6	404.4	407.7	410.9	412.8	414.7	416.6	418.6	426.9	434.6	443.0
32.5°	421.8	416.6	410.9	405.7	408.3	411.5	414.1	416.6	424.3	432.0	439.7
35°	401.9	399.3	397.4	394.8	398.0	401.2	403.8	407.0	414.1	420.5	427.6
37.5°	391.6	391.0	390.3	389.7	391.6	393.5	394.8	396.7	403.2	409.6	415.4
40°	391.0	387.7	385.2	382.0	383.9	385.8	387.1	389.0	396.7	404.4	412.1
42.5°	387.1	383.3	378.8	374.9	376.8	379.4	381.3	383.3	391.6	399.3	407.7
45°	386.5	380.7	374.3	368.5	371.1	373.6	376.2	378.8	385.2	391.6	397.4
47.5°	379.4	373.6	367.8	362.1	363.4	364.6	365.3	366.6	372.3	377.5	383.3
50°	373.6	369.1	365.3	360.8	358.9	357.6	355.7	353.7	358.2	362.7	367.2
52.5°	366.6	362.1	356.9	352.4	349.9	347.3	344.7	342.2	346.0	349.2	353.1
55°	362.1	356.3	351.2	345.4	342.2	339.0	335.7	332.5	335.1	337.0	339.6
57.5°	352.4	347.3	341.5	336.4	332.5	328.7	324.2	320.3	321.6	322.9	324.2
60°	339.6	333.8	328.7	322.9	318.4	313.9	308.8	304.3	304.9	306.2	306.9
62.5°	321.0	315.8	310.1	304.9	299.8	295.3	290.2	285.0	286.3	287.0	288.2
65°	300.4	294.7	289.5	283.8	279.3	274.8	269.6	265.1	266.4	267.7	268.3
67.5°	275.4	270.9	267.1	262.6	258.7	254.2	250.4	245.9	246.5	247.2	247.8
70°	248.4	244.6	241.4	237.5	234.3	231.1	227.9	224.7	224.7	225.3	225.3
72.5°	219.6	216.3	213.1	209.9	206.7	204.1	200.9	197.7	199.0	200.3	200.9
75°	190.0	187.5	184.2	181.0	178.5	175.9	172.7	170.1	171.4	172.7	173.3
77.5°	159.2	157.3	154.7	152.8	150.2	147.7	144.4	141.9	143.2	144.4	145.1
80°	127.1	125.8	123.9	122.6	120.0	117.5	114.9	112.3	113.0	113.0	113.6
82.5°	91.8	92.4	92.4	93.1	91.2	88.6	86.7	84.1	84.1	84.1	83.5
85°	51.4	53.9	55.9	57.8	55.9	53.9	52.0	50.1	49.4	49.4	48.8
87.5°	1.9	3.2	5.1	6.4	5.8	5.1	3.9	3.2	3.9	4.5	4.5
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: P368438
 CATALOG NUMBER: MSA-SA4B-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: P368438

CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1341.1	1352.0	1362.9	1373.8	1384.7	1401.4	1418.1	1435.4	1452.8	1443.1	1432.9
5°	1404.0	1410.4	1417.5	1423.9	1430.3	1448.9	1466.9	1489.4	1511.2	1508.6	1505.4
7.5°	1139.5	1148.5	1157.5	1165.8	1174.8	1203.0	1231.3	1255.0	1278.8	1275.6	1271.7
10°	889.8	908.4	927.6	946.3	964.9	988.0	1010.5	1030.4	1050.3	1083.6	1116.4
12.5°	799.3	828.1	857.0	885.9	914.8	931.5	947.5	973.2	998.9	1016.9	1035.5
15°	725.4	752.4	779.4	806.3	833.3	834.6	835.8	862.8	889.8	905.2	919.9
17.5°	658.0	672.8	687.5	701.7	716.4	711.3	706.2	719.0	731.2	737.6	744.7
20°	581.0	591.3	601.5	611.8	622.1	629.1	635.5	643.3	650.3	643.9	636.8
22.5°	536.0	551.5	567.5	582.9	598.3	602.8	606.7	602.2	597.7	595.7	593.8
25°	499.5	518.1	537.3	555.9	574.6	583.5	592.5	596.4	599.6	592.5	585.5
27.5°	471.2	493.7	515.5	538.0	559.8	575.8	591.9	596.4	600.2	595.1	589.3
30°	450.7	475.1	499.5	523.8	548.2	572.6	596.4	617.6	638.1	636.2	634.3
32.5°	447.5	464.1	480.8	497.5	514.2	529.6	544.4	545.7	546.3	541.2	535.4
35°	434.0	444.9	455.8	466.7	477.6	487.3	496.2	495.0	493.7	488.5	483.4
37.5°	421.8	432.7	444.2	455.2	466.1	482.8	498.8	495.6	491.7	486.6	481.5
40°	419.8	432.0	444.2	455.8	468.0	483.4	498.8	495.6	492.4	486.0	479.6
42.5°	415.4	427.6	439.1	451.3	462.9	481.5	499.5	493.7	487.3	482.1	477.0
45°	403.8	414.7	425.6	436.5	447.5	467.4	487.3	480.2	473.1	471.2	468.6
47.5°	388.4	399.3	410.2	421.1	432.0	451.9	471.2	465.4	459.0	458.4	457.1
50°	371.7	382.0	392.9	403.2	413.4	433.3	452.6	447.5	442.3	443.0	443.0
52.5°	356.3	365.9	374.9	384.5	393.5	413.4	432.7	428.8	424.3	425.6	426.3
55°	341.5	349.2	356.9	364.6	372.3	391.6	410.9	405.1	399.3	401.2	403.2
57.5°	325.5	331.9	338.3	344.1	350.5	369.8	388.4	382.0	374.9	378.1	380.7
60°	307.5	313.3	319.1	324.2	330.0	347.3	364.0	358.2	351.8	356.3	360.1
62.5°	288.9	293.4	297.9	302.4	306.9	322.9	339.0	334.5	330.0	335.1	339.6
65°	269.6	272.8	276.7	279.9	283.1	298.5	313.3	310.1	306.9	311.4	315.8
67.5°	248.4	251.0	254.2	256.8	259.4	273.5	287.6	284.4	280.5	284.4	287.6
70°	225.3	227.9	229.8	232.4	234.3	247.2	260.0	255.5	250.4	254.2	257.4
72.5°	202.2	203.5	205.4	206.7	208.0	217.6	227.3	223.4	219.6	223.4	226.6
75°	174.6	175.9	177.2	178.5	179.8	188.1	195.8	191.3	186.2	190.0	193.9
77.5°	146.4	147.0	148.3	148.9	149.6	155.4	160.5	156.0	150.9	155.4	159.9
80°	113.6	114.3	114.9	114.9	115.6	117.5	119.4	116.2	112.3	118.1	123.9
82.5°	83.5	82.8	82.8	82.2	81.5	81.5	80.9	79.0	76.4	81.5	86.7
85°	48.1	47.5	46.2	45.6	44.3	42.4	40.4	39.8	39.2	43.7	48.1
87.5°	5.1	4.5	3.2	2.6	1.3	0.6	0.0	0.0	0.0	2.6	5.8
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: P368438
 CATALOG NUMBER: MSA-SA4B-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: P368438

CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1423.2	1413.0	1403.3	1393.7	1384.1	1374.5	1392.4	1410.4	1428.4	1446.4	1462.4
5°	1502.8	1499.6	1491.3	1483.6	1475.2	1466.9	1471.4	1476.5	1481.0	1485.5	1495.1
7.5°	1268.5	1264.7	1282.7	1300.0	1318.0	1335.3	1339.8	1343.6	1348.1	1352.0	1349.4
10°	1149.8	1182.5	1190.9	1198.6	1206.9	1214.6	1227.4	1240.3	1252.5	1265.3	1272.4
12.5°	1053.5	1071.4	1101.0	1131.1	1160.7	1190.2	1209.5	1228.7	1248.0	1267.2	1307.0
15°	935.3	950.1	972.6	995.1	1017.5	1040.0	1067.6	1095.8	1123.4	1151.1	1194.7
17.5°	751.1	757.5	774.2	790.9	807.0	823.6	860.9	897.5	934.7	971.3	1021.4
20°	630.4	623.4	623.4	624.0	624.0	624.0	661.2	697.8	735.1	771.6	837.8
22.5°	591.3	589.3	582.3	574.6	567.5	559.8	579.1	599.0	618.2	637.5	691.4
25°	577.8	570.7	561.7	552.7	543.7	534.8	547.0	559.2	571.4	583.5	625.9
27.5°	584.2	578.4	582.9	586.8	591.3	595.1	599.0	602.8	606.7	610.5	625.3
30°	632.3	630.4	637.5	643.9	651.0	657.4	648.4	640.0	631.1	622.1	627.2
32.5°	530.3	524.5	521.9	519.4	516.8	514.2	513.6	512.9	511.6	511.0	522.6
35°	478.3	473.1	469.3	465.4	460.9	457.1	459.0	460.3	462.2	463.5	476.3
37.5°	476.3	471.2	466.7	462.2	457.1	452.6	454.5	457.1	459.0	460.9	470.6
40°	473.1	466.7	464.1	461.6	459.0	456.4	457.7	459.0	459.6	460.9	468.0
42.5°	471.2	466.1	464.8	463.5	462.2	460.9	462.2	463.5	464.1	465.4	473.8
45°	466.7	464.1	465.4	466.7	468.0	469.3	469.3	469.3	469.3	469.3	478.3
47.5°	456.4	455.2	459.0	462.9	466.7	470.6	477.0	483.4	489.2	495.6	497.5
50°	443.6	443.6	450.0	456.4	462.2	468.6	484.0	498.8	514.2	529.0	519.4
52.5°	427.6	428.2	437.8	446.8	456.4	465.4	479.6	493.7	507.2	521.3	507.2
55°	404.4	406.4	418.6	430.1	442.3	453.9	464.8	475.7	486.6	497.5	482.8
57.5°	383.9	386.5	399.3	411.5	424.3	436.5	443.0	450.0	456.4	462.9	453.2
60°	364.6	368.5	385.2	401.9	417.9	434.6	429.5	424.3	418.6	413.4	412.8
62.5°	344.7	349.2	364.6	380.0	394.8	410.2	402.5	394.8	386.5	378.8	382.0
65°	319.7	324.2	331.3	338.3	344.7	351.8	351.2	351.2	350.5	349.9	356.3
67.5°	291.5	294.7	299.2	303.0	307.5	311.4	313.9	317.1	319.7	322.3	330.0
70°	261.3	264.5	269.0	272.8	277.3	281.2	284.4	287.6	290.2	293.4	301.1
72.5°	230.5	233.7	238.2	242.7	246.5	251.0	253.6	256.1	258.1	260.6	267.1
75°	197.7	201.6	206.1	209.9	214.4	218.3	220.2	222.1	224.0	226.0	231.8
77.5°	164.3	168.8	173.3	177.8	182.3	186.8	187.5	188.1	188.7	189.4	194.5
80°	129.0	134.8	139.3	143.8	148.3	152.8	152.8	152.8	152.8	152.8	155.4
82.5°	91.8	96.9	102.1	106.6	111.7	116.2	116.2	115.6	115.6	114.9	114.9
85°	52.6	57.1	60.3	64.2	67.4	70.6	70.6	70.6	70.0	70.0	68.7
87.5°	8.3	10.9	12.2	14.1	15.4	16.7	16.0	16.0	15.4	14.8	12.8
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: P368438
 CATALOG NUMBER: MSA-SA4B-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: P368438

CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1478.5	1494.5	1510.6	1508.0	1505.4	1502.8	1500.3	1509.9	1518.9	1528.5	1537.5
5°	1504.1	1513.8	1522.8	1529.8	1536.9	1543.9	1551.0	1583.7	1615.8	1648.6	1680.7
7.5°	1346.9	1343.6	1341.1	1371.2	1402.1	1432.2	1462.4	1504.1	1545.9	1587.6	1629.3
10°	1279.4	1286.5	1293.6	1305.8	1318.6	1330.8	1343.0	1384.1	1425.2	1466.3	1507.3
12.5°	1346.2	1386.0	1425.2	1434.8	1445.1	1454.7	1464.3	1472.7	1481.0	1488.7	1497.1
15°	1238.4	1282.0	1325.7	1350.7	1375.7	1400.1	1425.2	1488.1	1550.4	1613.3	1675.5
17.5°	1070.8	1120.9	1170.3	1231.9	1293.6	1355.2	1416.8	1474.6	1532.4	1589.5	1647.3
20°	903.9	969.4	1035.5	1102.9	1169.7	1237.1	1303.8	1360.3	1416.8	1472.7	1529.2
22.5°	744.7	798.6	851.9	934.1	1015.6	1097.8	1179.3	1284.6	1389.2	1494.5	1599.1
25°	667.6	710.0	751.7	836.5	921.2	1005.3	1090.1	1226.8	1362.9	1499.6	1635.7
27.5°	640.7	655.5	670.2	747.3	823.6	900.7	977.1	1124.7	1272.4	1419.4	1567.0
30°	632.3	637.5	642.6	703.0	763.3	823.6	884.0	1029.7	1176.1	1321.8	1467.5
32.5°	533.5	545.0	555.9	615.0	673.4	732.5	790.9	937.9	1084.3	1231.3	1377.7
35°	489.2	502.0	514.9	572.6	630.4	687.5	745.3	900.0	1055.4	1210.1	1364.8
37.5°	480.2	489.8	499.5	564.9	630.4	695.9	761.4	918.0	1074.7	1231.3	1387.9
40°	475.7	482.8	489.8	553.4	617.6	681.1	744.7	909.0	1072.7	1237.1	1400.8
42.5°	481.5	489.8	497.5	555.3	612.4	670.2	727.4	897.5	1067.0	1237.1	1406.6
45°	486.6	495.6	503.9	557.9	611.8	665.7	719.6	901.3	1082.4	1264.0	1445.1
47.5°	498.8	500.7	502.0	548.9	595.1	642.0	688.2	873.1	1058.0	1242.2	1427.1
50°	509.1	499.5	489.2	538.0	586.1	634.9	683.1	858.3	1033.6	1208.2	1383.4
52.5°	493.0	478.3	464.1	516.8	569.4	621.4	674.1	849.3	1025.2	1200.5	1375.7
55°	468.6	453.9	439.1	492.4	545.7	599.0	652.2	826.9	1002.1	1176.7	1351.3
57.5°	444.2	434.6	425.0	468.6	512.9	556.6	600.2	789.6	978.4	1167.7	1356.5
60°	412.1	410.9	410.2	444.2	478.9	512.9	547.0	732.5	917.4	1102.9	1287.8
62.5°	384.5	387.7	390.3	417.9	445.5	472.5	500.1	679.2	859.0	1038.1	1217.2
65°	363.4	369.8	376.2	407.7	439.1	469.9	501.4	651.6	801.8	952.0	1102.3
67.5°	337.7	345.4	353.1	394.2	435.3	476.3	517.4	641.3	765.2	889.1	1013.0
70°	308.1	315.8	322.9	375.6	427.6	480.2	532.2	642.0	752.4	862.2	971.9
72.5°	273.5	279.9	286.3	342.8	399.3	455.8	512.3	605.4	698.5	790.9	884.0
75°	238.2	243.9	249.7	298.5	347.3	396.1	444.9	516.8	588.0	659.9	731.2
77.5°	199.0	204.1	208.6	241.4	274.1	306.9	339.6	394.8	449.4	504.6	559.2
80°	157.9	160.5	163.1	182.3	200.9	220.2	238.8	275.4	312.0	347.9	384.5
82.5°	115.6	115.6	115.6	127.8	140.6	152.8	165.0	183.6	201.6	220.2	238.2
85°	67.4	65.5	64.2	72.5	80.9	89.2	97.6	105.3	113.0	120.7	128.4
87.5°	10.9	8.3	6.4	11.6	16.7	21.8	27.0	29.5	32.7	35.3	37.9
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: P368438
 CATALOG NUMBER: MSA-SA4B-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: P368438

CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1515.7	1494.5	1472.7	1450.8	1482.9	1515.0	1547.1	1579.2	1664.6	1715.3	1718.6
5°	1707.6	1734.6	1761.6	1788.5	1815.5	1842.5	1868.8	1895.7	2034.4	2119.8	2135.8
7.5°	1673.6	1718.6	1762.8	1807.1	1883.5	1959.9	2036.3	2112.7	2230.2	2314.9	2370.8
10°	1562.6	1617.8	1673.0	1728.2	1818.7	1909.9	2000.4	2090.9	2215.4	2327.1	2380.4
12.5°	1585.0	1673.0	1760.3	1848.2	1926.5	2005.5	2083.8	2162.2	2248.2	2290.5	2387.5
15°	1736.5	1797.5	1858.5	1919.5	2037.6	2155.1	2273.2	2390.7	2439.5	2536.4	2623.7
17.5°	1759.6	1871.3	1983.7	2095.4	2239.8	2384.3	2528.7	2673.2	2763.7	2888.9	2994.1
20°	1687.7	1845.7	2004.2	2162.2	2348.3	2535.1	2721.3	2907.5	3022.4	3127.7	3290.7
22.5°	1773.8	1948.4	2122.3	2297.0	2544.1	2790.6	3037.8	3284.3	3524.4	3759.4	3869.8
25°	1868.8	2102.4	2335.5	2568.5	2877.3	3185.4	3494.2	3802.4	4111.2	4331.4	4458.5
27.5°	1802.0	2036.3	2271.3	2505.6	2887.6	3270.2	3652.2	4034.1	4364.7	4629.9	4739.0
30°	1755.1	2042.7	2330.3	2617.9	3066.0	3514.1	3962.2	4410.3	4715.9	5011.9	5172.3
32.5°	1746.8	2115.9	2484.4	2853.6	3375.5	3896.8	4418.7	4940.0	5142.8	5405.4	5621.7
35°	1769.9	2175.6	2580.7	2985.8	3584.1	4182.4	4780.1	5378.4	5666.7	5926.7	6116.0
37.5°	1840.5	2293.1	2745.1	3197.6	3918.6	4640.2	5361.1	6082.0	6565.4	7041.1	7125.9
40°	1880.3	2360.5	2840.1	3319.6	4158.0	4996.4	5834.9	6673.3	7229.2	7751.1	7786.4
42.5°	1927.2	2447.8	2967.8	3488.5	4418.0	5348.2	6277.8	7207.4	7895.6	8456.7	8473.3
45°	1981.1	2516.5	3052.6	3588.0	4558.6	5528.6	6499.3	7469.3	8301.3	8983.1	8816.8
47.5°	2002.3	2578.1	3153.4	3728.6	4763.4	5797.6	6832.5	7866.7	8613.3	9233.4	9074.2
50°	2010.6	2638.5	3265.7	3892.9	4965.0	6037.7	7109.8	8181.9	8941.3	9546.1	9302.1
52.5°	2062.6	2749.6	3436.5	4123.4	5240.4	6357.4	7474.4	8591.5	9338.7	9919.7	9616.7
55°	2132.6	2913.9	3694.5	4475.8	5632.0	6787.5	7943.7	9099.3	9849.1	10389.6	10014.1
57.5°	2197.5	3039.1	3880.1	4721.0	5919.0	7117.5	8315.4	9513.3	10272.8	10807.5	10443.5
60°	2166.0	3044.2	3922.4	4800.6	5978.0	7154.7	8332.1	9508.8	10371.0	11012.3	10826.2
62.5°	2071.0	2924.8	3778.0	4631.8	5749.5	6866.5	7984.2	9101.2	10110.4	10932.7	10924.4
65°	1888.0	2673.8	3458.9	4244.7	5278.9	6313.8	7348.0	8382.2	9571.8	10570.7	10635.5
67.5°	1665.3	2317.5	2969.7	3622.0	4595.9	5569.7	6543.6	7517.5	8789.2	9891.5	9947.3
70°	1449.6	1927.8	2405.5	2883.1	3738.2	4593.3	5447.7	6302.8	7587.4	8702.5	8753.9
72.5°	1196.6	1509.3	1821.3	2133.9	2826.6	3519.3	4211.3	4904.0	6031.9	6889.6	7179.1
75°	916.7	1102.3	1287.8	1473.3	2033.8	2594.2	3154.0	3714.4	4464.3	5097.2	5423.4
77.5°	655.5	751.7	848.0	944.3	1420.7	1897.0	2372.7	2849.1	3243.2	3602.1	3822.3
80°	430.1	475.1	520.6	565.6	961.7	1357.8	1753.2	2149.3	2389.4	2582.0	2693.1
82.5°	260.6	283.1	304.9	327.4	648.4	969.4	1289.7	1610.7	1748.1	1839.9	1938.7
85°	140.6	152.8	165.0	177.2	383.3	588.7	794.8	1000.2	1013.7	1024.6	1171.6
87.5°	41.1	44.9	48.1	51.4	84.7	118.8	152.1	185.5	115.6	71.9	147.7
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: P368438
 CATALOG NUMBER: MSA-SA4B-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: P368438

CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1699.9	1691.6	1683.2	1674.3	1665.9	1630.6	1595.9	1560.6	1525.3	1559.3	1592.7
5°	2117.2	2142.9	2167.9	2193.6	2219.3	2221.2	2222.5	2224.4	2225.7	2232.1	2238.5
7.5°	2417.7	2463.2	2508.2	2553.8	2599.3	2634.6	2669.9	2705.9	2741.2	2709.1	2677.0
10°	2443.3	2539.6	2635.9	2732.2	2828.5	2845.8	2862.5	2879.9	2897.2	2920.3	2942.8
12.5°	2469.0	2586.5	2703.3	2820.8	2938.3	2989.6	3040.4	3091.7	3142.4	3167.5	3191.9
15°	2740.6	2809.9	2878.6	2947.9	3016.6	3051.9	3086.6	3121.9	3157.2	3178.4	3198.9
17.5°	3089.8	3115.5	3140.5	3166.2	3191.9	3215.6	3239.4	3263.1	3286.9	3290.7	3294.6
20°	3408.2	3413.3	3417.8	3423.0	3427.5	3377.4	3328.0	3277.9	3227.8	3236.8	3245.2
22.5°	3885.8	3857.6	3830.0	3801.7	3774.1	3679.8	3586.0	3491.7	3397.9	3357.5	3317.7
25°	4604.8	4532.9	4461.0	4389.1	4317.2	4167.0	4017.4	3867.2	3717.6	3629.7	3542.4
27.5°	4836.6	4680.0	4524.0	4367.3	4210.7	4097.0	3984.1	3870.4	3757.4	3618.1	3478.8
30°	5305.2	5058.1	4811.6	4564.4	4317.2	4207.5	4097.7	3987.3	3877.5	3735.0	3593.1
32.5°	5720.6	5463.8	5207.0	4949.6	4692.8	4484.8	4276.8	4068.8	3860.8	3764.5	3668.2
35°	6201.4	5878.5	5555.6	5232.7	4909.8	4731.3	4553.5	4375.0	4197.2	4051.5	3906.4
37.5°	6901.8	6558.4	6214.9	5870.8	5527.4	5286.0	5045.2	4803.9	4563.1	4482.9	4403.3
40°	7569.5	7163.7	6758.6	6352.9	5947.8	5763.0	5578.1	5392.5	5207.7	5072.2	4936.7
42.5°	8128.6	7727.4	7326.8	6925.6	6525.0	6390.2	6256.0	6121.2	5987.0	5875.3	5763.6
45°	8320.6	7993.2	7666.4	7339.0	7011.6	6964.1	6917.2	6869.7	6822.8	6740.0	6657.2
47.5°	8629.3	8295.5	7962.3	7628.5	7294.7	7312.0	7329.4	7347.3	7364.7	7369.2	7373.0
50°	8811.0	8493.9	8177.4	7860.3	7543.8	7627.9	7711.3	7795.4	7879.5	8070.2	8260.2
52.5°	9076.2	8764.8	8454.1	8142.7	7831.4	7973.9	8115.8	8258.3	8400.2	8667.2	8934.3
55°	9408.7	9110.8	8813.6	8515.7	8218.5	8357.2	8495.2	8633.8	8771.9	9069.1	9366.3
57.5°	9849.7	9530.7	9212.3	8893.2	8574.8	8702.5	8829.6	8957.4	9084.5	9367.0	9649.4
60°	10351.7	10005.1	9658.4	9311.1	8964.5	8999.8	9034.4	9069.7	9104.4	9410.6	9716.2
62.5°	10598.3	10277.3	9956.9	9636.0	9315.0	9216.7	9118.5	9019.7	8921.4	9195.6	9469.0
65°	10384.5	10163.7	9943.5	9722.6	9501.8	9328.4	9155.8	8982.4	8809.1	8980.5	9151.3
67.5°	9704.0	9578.8	9454.3	9329.1	9203.9	8913.1	8622.3	8330.8	8040.0	8051.6	8062.5
70°	8601.1	8567.7	8535.0	8501.6	8468.2	8031.0	7594.5	7157.3	6720.1	6653.4	6586.6
72.5°	7203.5	7225.4	7246.5	7268.4	7290.2	6820.3	6350.4	5880.4	5410.5	5299.5	5188.4
75°	5579.4	5700.0	5820.7	5942.1	6062.8	5613.4	5164.0	4714.0	4264.6	4127.9	3991.1
77.5°	3942.3	4167.7	4392.4	4617.7	4843.0	4436.6	4030.9	3624.6	3218.2	3129.6	3041.0
80°	2748.9	2859.3	2969.7	3080.2	3190.6	2986.4	2782.3	2578.1	2374.0	2398.4	2422.1
82.5°	2002.3	2028.0	2053.0	2078.7	2104.4	2020.9	1937.5	1853.4	1769.9	1833.5	1897.0
85°	1282.7	1374.5	1465.6	1557.4	1648.6	1556.1	1463.7	1370.6	1278.2	1320.5	1362.9
87.5°	287.0	453.9	620.8	788.3	955.2	865.4	776.1	686.3	596.4	555.9	516.1
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: P368438
 CATALOG NUMBER: MSA-SA4B-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: P368438

CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1626.7	1660.8	1650.5	1640.9	1630.6	1620.3	1638.9	1657.6	1676.8	1695.4	1689.0
5°	2245.6	2252.0	2191.0	2130.7	2069.7	2008.7	2046.6	2084.5	2122.3	2160.2	2146.7
7.5°	2644.9	2612.8	2577.5	2542.2	2506.2	2470.9	2463.2	2455.5	2447.2	2439.5	2429.2
10°	2965.9	2988.4	2965.3	2942.8	2919.7	2896.6	2842.6	2788.7	2734.1	2680.2	2657.8
12.5°	3216.9	3241.9	3247.7	3252.9	3258.6	3264.4	3204.1	3144.4	3084.0	3023.7	2969.1
15°	3220.1	3241.3	3259.9	3277.9	3296.5	3314.5	3277.3	3240.7	3203.4	3166.2	3148.9
17.5°	3299.1	3302.9	3287.5	3272.8	3257.3	3242.6	3227.8	3213.7	3198.9	3184.8	3157.2
20°	3254.1	3263.1	3261.2	3259.3	3256.7	3254.8	3256.1	3256.7	3258.0	3258.6	3243.2
22.5°	3277.3	3236.8	3245.2	3252.9	3261.2	3268.9	3292.0	3315.1	3338.9	3362.0	3423.6
25°	3454.4	3366.5	3353.0	3340.2	3326.7	3313.8	3374.2	3433.9	3494.2	3554.6	3654.7
27.5°	3338.9	3199.6	3168.8	3137.9	3107.1	3076.3	3168.1	3259.3	3351.1	3442.9	3545.0
30°	3450.6	3308.7	3240.7	3172.6	3103.9	3035.9	3123.8	3211.1	3299.1	3386.4	3499.4
32.5°	3571.9	3475.6	3430.0	3385.1	3339.5	3294.6	3301.6	3308.7	3315.8	3322.8	3482.0
35°	3760.7	3614.9	3570.0	3525.1	3480.1	3435.2	3510.3	3584.8	3659.9	3734.3	3869.1
37.5°	4323.0	4242.8	4161.9	4081.0	3999.5	3918.6	3962.9	4007.2	4051.5	4095.8	4222.9
40°	4801.3	4665.8	4652.3	4639.5	4626.0	4612.5	4616.4	4619.6	4623.5	4627.3	4735.8
42.5°	5651.3	5539.5	5470.9	5402.2	5333.5	5264.8	5260.3	5255.8	5250.7	5246.2	5327.7
45°	6573.8	6490.9	6439.6	6388.2	6336.2	6284.9	6203.3	6121.8	6039.6	5958.1	6029.4
47.5°	7377.5	7382.0	7475.1	7567.5	7660.6	7753.7	7614.4	7475.1	7335.8	7196.5	7104.7
50°	8450.9	8640.9	8663.4	8685.2	8707.7	8730.1	8493.9	8258.3	8022.0	7785.8	7689.5
52.5°	9202.0	9469.0	9434.4	9400.3	9365.7	9331.0	9194.3	9058.2	8921.4	8784.7	8574.8
55°	9664.2	9961.4	9935.1	9909.4	9883.1	9856.8	9757.3	9657.8	9558.3	9458.8	9228.3
57.5°	9931.9	10214.4	10222.1	10229.8	10237.5	10245.2	10218.9	10192.5	10166.2	10139.9	9840.1
60°	10022.4	10328.6	10331.8	10334.4	10337.6	10340.2	10298.5	10256.7	10214.4	10172.6	9976.8
62.5°	9743.2	10016.6	10028.8	10040.4	10052.6	10064.8	10035.9	10007.0	9978.1	9949.2	9804.1
65°	9322.7	9494.1	9497.3	9499.9	9503.1	9506.3	9433.1	9360.5	9287.4	9214.2	9179.5
67.5°	8074.0	8085.6	8153.6	8221.7	8289.7	8357.8	8363.6	8369.3	8375.8	8381.5	8331.5
70°	6519.8	6453.1	6526.9	6600.7	6674.5	6748.4	6779.8	6811.3	6843.4	6874.8	6898.0
72.5°	5076.7	4965.6	5020.2	5074.8	5130.0	5184.5	5137.7	5090.8	5043.9	4997.1	5145.4
75°	3854.4	3717.6	3710.6	3704.2	3697.1	3690.7	3666.9	3643.2	3618.8	3595.0	3733.7
77.5°	2951.8	2863.2	2867.7	2871.5	2876.0	2879.9	2855.5	2831.7	2807.3	2782.9	2836.2
80°	2446.5	2470.3	2470.9	2471.6	2472.2	2472.9	2449.8	2427.3	2404.2	2381.1	2342.5
82.5°	1961.2	2024.8	2024.1	2024.1	2023.5	2022.8	2021.6	2020.3	2018.3	2017.1	1954.2
85°	1405.3	1447.6	1404.0	1360.3	1316.7	1273.0	1305.1	1337.2	1370.0	1402.1	1375.7
87.5°	475.7	435.9	383.9	332.5	280.5	228.5	284.4	340.2	396.7	452.6	484.7
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: P368438
 CATALOG NUMBER: MSA-SA4B-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: P368438

CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1683.2	1676.8	1671.0	1630.6	1589.5	1549.1	1508.0	1582.5	1657.6	1732.0	1806.5
5°	2133.9	2120.4	2107.6	2104.4	2101.2	2097.3	2094.1	2132.0	2169.9	2207.1	2245.0
7.5°	2418.9	2408.7	2398.4	2371.4	2345.1	2318.1	2291.2	2314.3	2336.8	2359.9	2382.3
10°	2635.9	2613.5	2591.0	2532.6	2474.8	2416.4	2358.0	2340.6	2323.3	2306.0	2288.6
12.5°	2914.5	2859.3	2804.8	2738.6	2671.9	2605.8	2539.0	2530.0	2521.0	2512.7	2503.7
15°	3132.2	3114.8	3097.5	3044.9	2992.2	2939.6	2886.9	2816.3	2745.1	2674.4	2603.8
17.5°	3130.2	3102.6	3075.7	3146.3	3216.3	3286.9	3356.9	3281.7	3206.0	3130.9	3055.8
20°	3227.8	3211.8	3196.4	3326.7	3456.4	3586.7	3716.4	3675.3	3633.5	3592.5	3550.7
22.5°	3484.6	3546.2	3607.2	3718.9	3830.0	3941.7	4052.7	4099.6	4146.5	4193.3	4240.2
25°	3754.2	3854.4	3954.5	4120.8	4286.4	4452.7	4619.0	4652.3	4685.7	4719.1	4752.5
27.5°	3646.4	3748.5	3850.5	3976.4	4101.5	4227.4	4352.5	4498.9	4645.9	4792.3	4938.7
30°	3611.7	3724.7	3837.0	4009.7	4181.8	4354.5	4527.2	4728.7	4930.3	5131.3	5332.8
32.5°	3640.6	3799.8	3959.0	4192.7	4425.7	4659.4	4893.1	5104.9	5317.4	5529.3	5741.1
35°	4003.3	4138.1	4272.3	4533.6	4794.9	5056.1	5317.4	5565.9	5814.3	6062.1	6310.6
37.5°	4349.3	4476.4	4603.6	4870.6	5137.0	5404.1	5671.2	6063.4	6456.3	6848.5	7240.8
40°	4843.7	4952.1	5060.0	5288.5	5517.1	5745.6	5974.2	6447.3	6920.4	7393.6	7866.7
42.5°	5408.6	5490.1	5571.0	5807.9	6044.8	6281.7	6518.6	7033.4	7548.9	8063.8	8578.6
45°	6100.0	6171.2	6242.5	6405.6	6568.6	6732.3	6895.4	7426.3	7957.2	8488.1	9019.0
47.5°	7012.9	6921.1	6829.3	6909.5	6989.8	7070.0	7150.2	7675.4	8200.5	8725.0	9250.1
50°	7593.2	7496.9	7400.6	7407.7	7414.1	7421.2	7428.2	7918.0	8407.9	8897.0	9386.9
52.5°	8364.9	8154.3	7944.4	7942.4	7940.5	7937.9	7936.0	8362.9	8790.5	9217.4	9644.3
55°	8997.8	8767.4	8536.9	8492.0	8447.0	8401.4	8356.5	8778.9	9200.7	9623.1	10044.9
57.5°	9540.3	9239.9	8940.1	8869.4	8798.8	8728.2	8657.6	9112.7	9568.5	10023.7	10478.9
60°	9781.7	9585.9	9390.7	9304.1	9217.4	9130.7	9044.1	9431.8	9819.6	10206.7	10594.4
62.5°	9659.7	9514.6	9370.2	9390.1	9410.0	9429.9	9449.8	9671.3	9893.4	10114.9	10336.3
65°	9145.5	9110.8	9076.8	9237.3	9397.8	9558.3	9718.8	9722.0	9725.2	9728.4	9731.6
67.5°	8281.4	8231.3	8181.3	8515.1	8848.3	9182.1	9515.9	9357.3	9198.8	9040.8	8882.3
70°	6920.4	6943.5	6966.0	7420.5	7874.4	8328.9	8783.4	8553.6	8323.1	8093.3	7862.8
72.5°	5293.7	5442.6	5590.9	6062.1	6533.3	7004.5	7475.7	7213.2	6950.0	6687.4	6424.2
75°	3872.4	4011.0	4149.7	4615.1	5080.5	5546.6	6012.0	5700.0	5388.0	5076.7	4764.7
77.5°	2889.5	2943.4	2996.7	3383.8	3770.3	4157.4	4543.9	4230.6	3917.3	3604.7	3291.4
80°	2304.7	2266.1	2228.3	2442.7	2657.1	2871.5	3085.9	2863.8	2641.1	2418.9	2196.8
82.5°	1891.9	1829.0	1766.7	1846.3	1925.9	2006.2	2085.8	1907.9	1730.1	1552.3	1374.5
85°	1349.4	1323.1	1296.8	1319.9	1342.4	1365.5	1388.6	1215.2	1041.9	869.2	695.9
87.5°	516.1	548.2	580.3	616.9	652.9	689.5	725.4	568.1	410.9	254.2	96.9
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: P368438
 CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368438
 CATALOG NUMBER: MSA-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1395.0	1395.0
2.5°	1837.3	1868.1
5°	2244.3	2243.7
7.5°	2372.1	2361.2
10°	2260.4	2232.1
12.5°	2420.2	2336.1
15°	2520.4	2436.3
17.5°	2929.3	2802.2
20°	3399.9	3248.4
22.5°	4009.7	3779.3
25°	4477.1	4201.0
27.5°	4775.0	4610.6
30°	5144.7	4956.6
32.5°	5602.5	5463.2
35°	6183.4	6055.7
37.5°	7201.0	7160.5
40°	7818.5	7769.7
42.5°	8580.6	8581.8
45°	9047.9	9076.8
47.5°	9323.3	9395.9
50°	9542.9	9698.2
52.5°	9856.8	10069.3
55°	10327.4	10609.2
57.5°	10719.0	10959.0
60°	10719.0	10842.9
62.5°	10333.1	10329.3
65°	9671.9	9611.6
67.5°	8806.5	8730.8
70°	7744.7	7625.9
72.5°	6277.2	6129.5
75°	4562.5	4359.6
77.5°	3195.1	3098.1
80°	2243.7	2290.5
82.5°	1441.2	1508.0
85°	685.6	675.4
87.5°	80.9	64.8
90°	0.0	0.0
92.5°	0.0	0.0
95°	0.0	0.0
97.5°	0.0	0.0
100°	0.0	0.0
102.5°	0.0	0.0
105°	0.0	0.0
107.5°	0.0	0.0
110°	0.0	0.0



REPORT NUMBER: P368438
CATALOG NUMBER: MSA-SA4B-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)