

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: P367909

Luminaire Tested: **MSA-SA3B-830-U-SLR-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-25)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3B-830-U-SLR-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8521 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

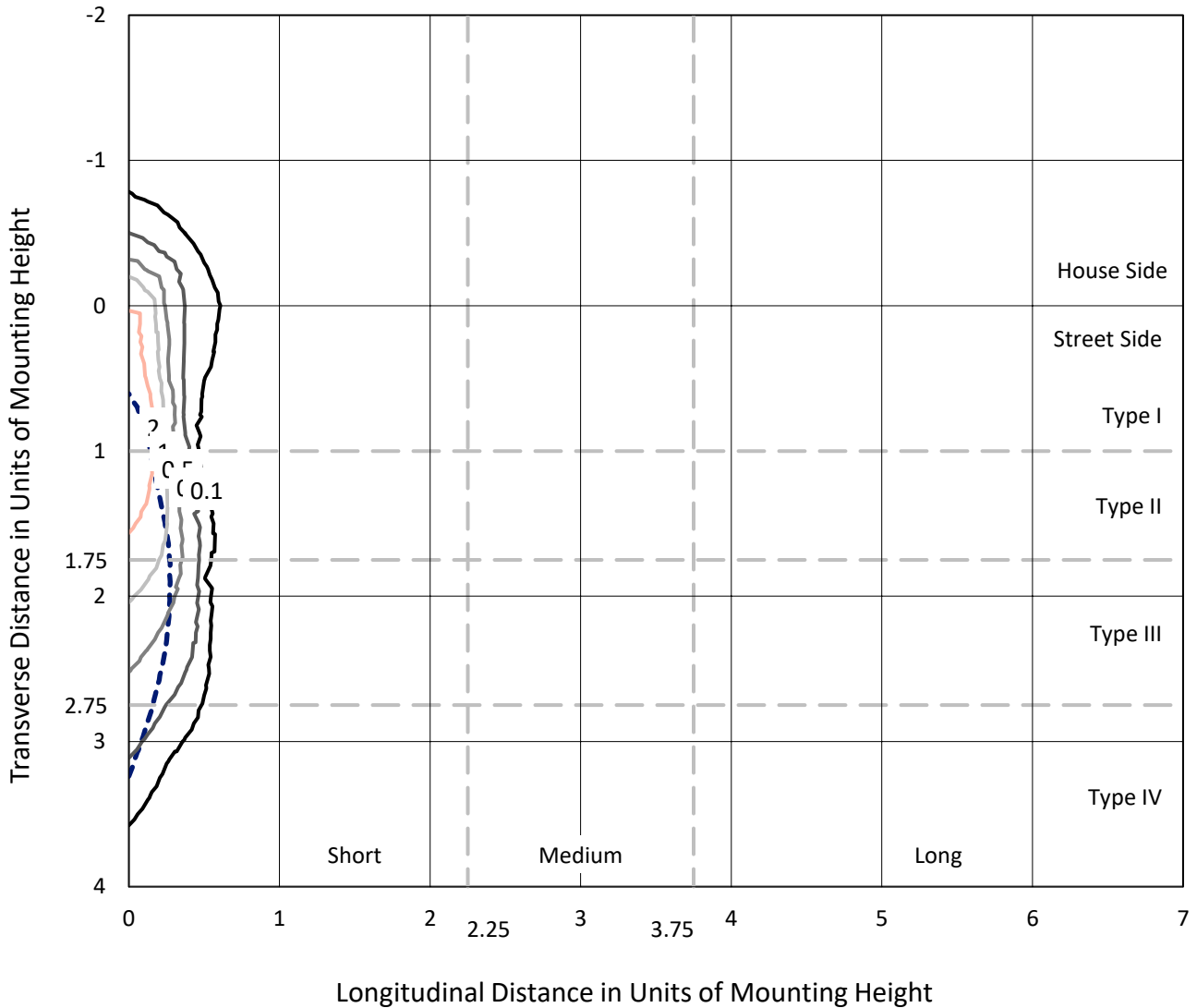
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

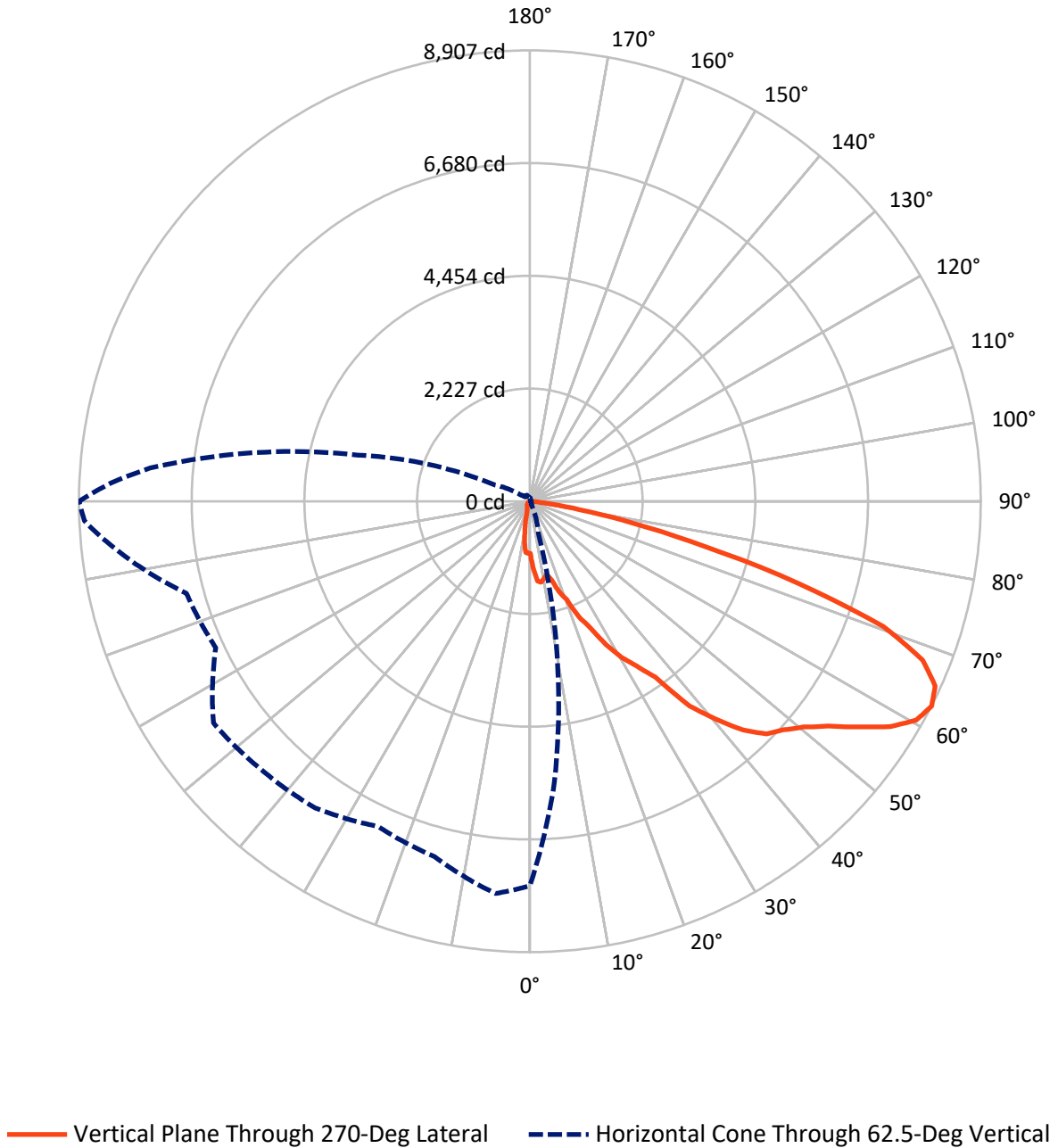
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P367909
CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

Luminous Intensity Polar Plot



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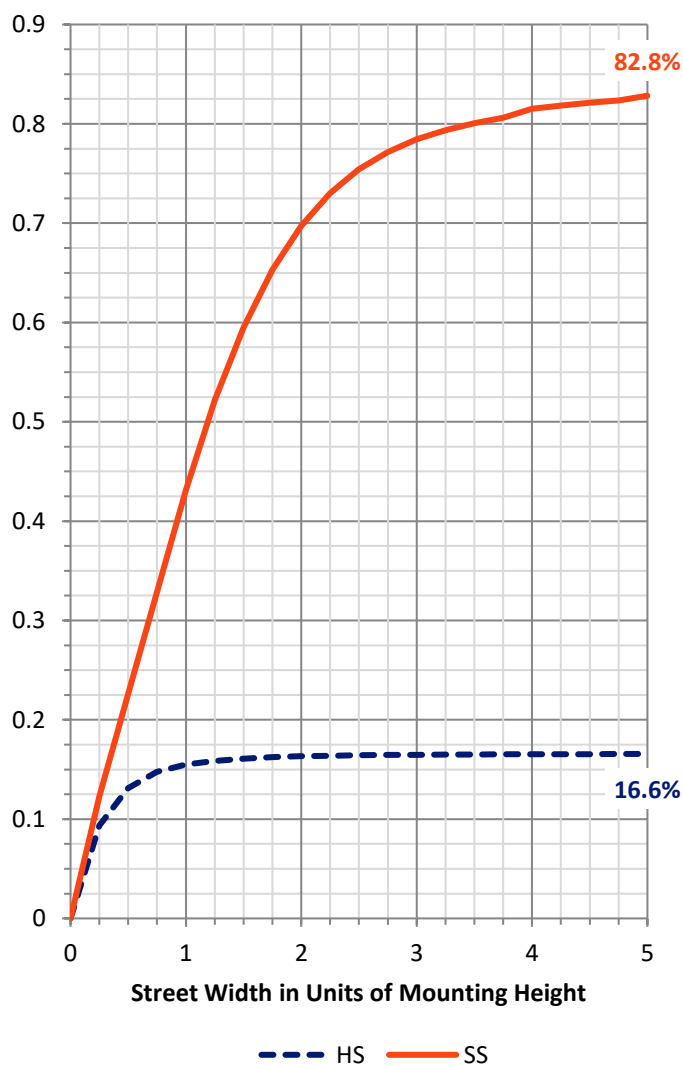
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1422.9	0.0	1422.9
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	7098.1	0.0	7098.1
	% Fixture	83.3	0.0	83.3
Total	Lumens	8521.0	0.0	8521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	1.3
10°-20°	299.7	3.5
20°-30°	484.4	5.7
30°-40°	811.3	9.5
40°-50°	1326.2	15.6
50°-60°	1963.3	23.0
60°-70°	2253.9	26.5
70°-80°	1114.4	13.1
80°-90°	153.1	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8521.0	100.0
0°-180°	8521.0	100.0

Coefficient of Utilization



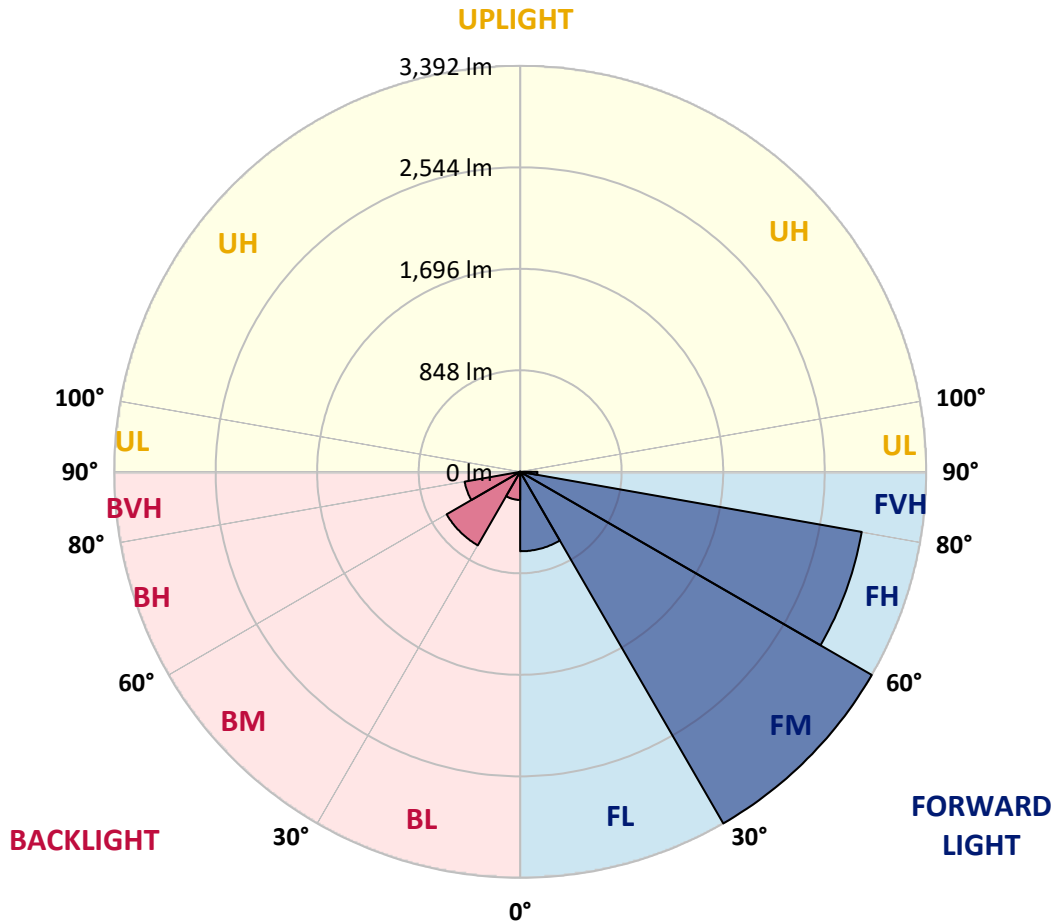
REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.8	7.8			
FM (30°-60°)	3391.8	39.8			
FH (60°-80°)	2897.5	34.0			G2/5000
FVH (80°-90°)	144.9	1.7			G2/225
BL (0°-30°)	235.0	2.8	B1/500		
BM (30°-60°)	709.0	8.3	B1/1000		
BH (60°-80°)	470.8	5.5	B1/500		G1/500
BVH (80°-90°)	8.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P367909

CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1361.5	1378.5	1395.0	1363.4	1331.9	1300.3	1268.7	1240.5	1212.4	1183.7	1155.5
5°	1752.0	1720.9	1689.8	1647.1	1604.3	1561.6	1518.9	1498.9	1479.0	1459.1	1439.2
7.5°	1888.0	1832.6	1776.8	1738.9	1701.5	1663.6	1625.7	1566.0	1505.7	1446.0	1385.8
10°	1781.1	1722.4	1663.1	1630.1	1597.1	1564.0	1531.0	1456.7	1381.9	1307.6	1232.8
12.5°	1830.2	1766.6	1702.9	1634.9	1566.9	1498.9	1430.9	1374.1	1316.8	1260.0	1202.7
15°	1864.2	1791.3	1718.0	1640.3	1562.6	1484.9	1407.1	1340.1	1273.6	1206.5	1139.5
17.5°	2063.8	1959.4	1855.0	1735.5	1616.0	1496.5	1377.0	1299.3	1222.1	1144.4	1066.6
20°	2320.3	2172.2	2023.5	1861.8	1700.0	1538.3	1376.5	1279.9	1183.2	1086.6	989.9
22.5°	2618.5	2433.5	2247.9	2048.3	1849.2	1649.5	1449.9	1311.0	1172.1	1033.1	894.2
25°	2918.7	2751.6	2584.5	2315.9	2047.3	1778.2	1509.6	1333.3	1156.5	980.2	803.4
27.5°	3460.8	3162.1	2863.3	2521.4	2179.9	1838.0	1496.0	1294.0	1091.9	889.4	687.3
30°	3815.4	3585.6	3355.4	2903.7	2452.4	2000.7	1549.0	1293.0	1037.0	780.6	524.6
32.5°	4239.4	3903.3	3566.7	3076.6	2586.5	2096.4	1606.3	1305.6	1004.5	703.8	402.7
35°	4715.9	4350.1	3984.4	3363.6	2742.9	2121.6	1500.9	1209.5	918.0	626.6	335.1
37.5°	5557.7	4945.6	4333.6	3609.9	2885.7	2162.0	1437.7	1146.8	855.4	564.4	273.0
40°	6035.6	5451.3	4867.0	3962.5	3058.1	2153.7	1249.3	990.9	733.0	474.6	216.1
42.5°	6657.3	5916.1	5174.4	4163.6	3152.8	2142.0	1131.3	892.3	653.3	413.8	174.9
45°	7026.0	6186.2	5346.4	4251.1	3155.7	2060.4	965.1	758.2	551.3	344.4	137.5
47.5°	7258.7	6416.4	5574.2	4398.2	3222.8	2046.8	870.9	680.5	490.1	299.7	109.3
50°	7376.7	6532.0	5686.9	4478.4	3269.9	2060.9	852.4	663.0	473.1	283.7	93.7
52.5°	7499.6	6685.0	5870.0	4617.3	3364.6	2111.9	859.2	665.9	473.1	279.8	86.5
55°	7747.8	6944.4	6140.5	4816.4	3492.4	2168.3	844.2	653.8	463.4	272.5	82.1
57.5°	8052.8	7194.1	6334.8	4962.2	3589.5	2216.8	844.2	652.8	461.4	269.6	78.2
60°	7995.0	7062.9	6130.3	4798.5	3466.6	2134.3	802.4	620.3	438.6	256.5	74.3
62.5°	7598.2	6586.4	5574.2	4343.3	3112.0	1881.2	649.9	504.7	359.4	213.7	68.5
65°	7131.9	6057.9	4983.5	3850.8	2717.6	1584.9	451.7	354.6	256.9	159.8	62.2
67.5°	6570.4	5425.1	4279.7	3272.3	2265.4	1258.0	250.6	202.1	153.5	104.4	55.9
70°	5596.0	4413.8	3231.0	2456.8	1683.0	908.8	134.5	113.7	92.8	71.9	51.0
72.5°	4201.0	3117.9	2034.7	1545.6	1056.9	567.8	78.7	70.9	62.7	54.9	46.6
75°	2858.5	2046.8	1235.2	940.4	646.0	351.2	56.3	52.5	48.1	44.2	39.8
77.5°	1943.4	1405.7	868.0	662.5	457.1	251.6	46.1	43.7	41.3	38.4	35.9
80°	1213.3	830.6	447.8	344.9	241.4	138.4	35.0	33.5	32.1	30.1	28.7
82.5°	848.6	507.6	166.6	130.2	93.7	56.8	20.4	20.9	21.4	21.4	21.9
85°	356.0	192.3	28.7	24.3	19.9	15.5	11.2	12.1	13.6	14.6	15.5
87.5°	6.3	3.4	0.0	1.0	2.4	3.4	4.4	5.8	6.8	8.3	9.2
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: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1162.8	1170.1	1176.9	1184.2	1178.4	1173.0	1167.2	1161.4	1152.6	1144.4	1135.6
5°	1414.9	1390.6	1366.3	1342.1	1305.1	1268.2	1230.8	1193.9	1189.5	1185.2	1180.3
7.5°	1328.9	1272.1	1214.8	1158.0	1104.5	1051.1	997.7	944.2	927.7	911.7	895.2
10°	1189.1	1145.3	1101.1	1057.4	1019.0	980.2	941.8	903.0	862.6	822.3	781.5
12.5°	1157.0	1111.3	1065.2	1019.5	984.6	949.6	914.6	879.6	834.5	789.3	744.1
15°	1090.0	1040.4	990.9	941.3	894.7	848.1	801.0	754.3	699.9	645.5	591.1
17.5°	1007.9	949.6	890.8	832.0	770.8	709.6	648.4	587.2	524.6	462.4	399.8
20°	910.2	830.6	750.4	670.8	595.0	519.2	443.0	367.2	327.9	289.0	249.7
22.5°	791.2	687.8	584.8	481.4	419.2	356.5	294.3	231.7	214.7	197.7	180.7
25°	686.3	569.3	452.2	335.1	295.8	256.5	217.1	177.8	170.0	161.7	154.0
27.5°	577.0	467.3	357.0	246.7	224.4	201.6	179.2	156.4	151.1	146.2	140.9
30°	442.5	360.4	277.8	195.7	181.2	166.6	151.5	137.0	134.5	131.6	129.2
32.5°	342.9	282.7	222.9	162.7	154.5	146.2	137.9	129.7	125.8	121.9	117.5
35°	286.6	238.5	189.9	141.3	135.5	129.2	123.4	117.1	113.2	108.8	104.9
37.5°	237.5	202.5	167.1	131.6	125.3	119.0	112.2	105.9	103.0	100.1	97.1
40°	195.7	175.3	154.9	134.5	125.3	116.1	106.9	97.6	95.2	92.8	90.3
42.5°	161.7	148.6	135.0	121.9	115.1	108.8	102.0	95.2	91.8	87.9	84.5
45°	130.7	123.4	116.6	109.3	109.8	110.3	110.3	110.7	102.0	92.8	84.0
47.5°	105.9	102.5	98.6	95.2	99.1	103.0	106.4	110.3	101.0	91.8	82.1
50°	90.8	88.4	85.5	82.6	86.5	90.8	94.7	98.6	94.7	91.3	87.4
52.5°	83.1	79.7	76.3	72.9	74.3	76.3	77.7	79.2	79.2	79.2	79.2
55°	78.2	74.8	70.9	67.0	65.6	63.6	62.2	60.2	57.8	55.9	53.4
57.5°	74.3	70.4	66.1	62.2	59.7	56.8	54.4	51.5	49.1	46.1	43.7
60°	70.4	66.5	62.2	58.3	55.9	53.4	50.5	48.1	45.2	42.7	39.8
62.5°	65.1	61.7	58.3	54.9	52.5	50.5	48.1	45.7	42.7	39.8	36.4
65°	59.3	56.8	53.9	51.0	48.6	46.1	43.7	41.3	38.4	35.9	33.0
67.5°	53.9	51.5	49.5	47.1	44.2	41.8	38.9	35.9	34.0	32.1	29.6
70°	49.5	47.6	46.1	44.2	41.3	38.9	35.9	33.0	31.6	29.6	28.2
72.5°	45.2	43.7	41.8	40.3	37.9	35.5	33.0	30.6	29.1	27.7	26.2
75°	38.9	37.9	36.9	35.9	33.5	31.1	28.2	25.7	25.3	24.8	24.3
77.5°	35.0	34.5	33.5	32.5	30.1	27.7	25.3	22.8	23.3	23.8	23.8
80°	28.7	28.7	28.2	28.2	26.2	24.3	21.9	19.9	20.9	22.3	23.3
82.5°	21.9	21.9	21.9	21.9	19.9	18.0	16.0	14.1	15.5	16.5	18.0
85°	15.1	14.6	14.1	13.6	12.1	11.2	9.7	8.3	10.2	11.7	13.6
87.5°	9.2	9.7	9.7	9.7	8.7	7.3	6.3	4.9	5.8	6.3	7.3
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: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1126.9	1112.3	1097.7	1082.7	1068.1	1034.1	1000.1	966.1	932.1	957.4	982.1
5°	1175.9	1147.8	1119.1	1090.9	1062.3	1049.6	1037.5	1024.9	1012.2	1014.2	1016.6
7.5°	878.7	860.2	841.8	822.8	804.4	800.5	797.1	793.2	789.3	797.6	805.3
10°	741.2	715.5	689.2	663.5	637.3	623.2	609.1	595.0	580.9	579.5	577.5
12.5°	699.0	659.6	620.8	581.4	542.1	511.5	480.9	450.3	419.7	422.1	424.5
15°	536.7	497.4	458.5	419.2	379.8	355.1	329.8	305.0	279.8	272.5	265.2
17.5°	337.1	307.9	278.8	249.2	220.0	211.8	204.0	195.7	187.5	185.1	182.6
20°	210.3	197.7	185.1	171.9	159.3	157.4	155.4	153.5	151.5	153.0	154.5
22.5°	163.7	158.3	152.5	147.2	141.3	139.4	137.5	135.5	133.6	135.0	136.0
25°	145.7	141.8	137.9	134.1	130.2	128.2	125.8	123.9	121.4	122.4	123.9
27.5°	135.5	132.1	128.7	125.3	121.9	118.5	115.6	112.2	108.8	110.7	112.2
30°	126.3	122.4	119.0	115.1	111.2	107.8	104.4	100.5	97.1	99.1	101.0
32.5°	113.7	110.3	106.4	103.0	99.1	97.1	95.2	92.8	90.8	92.3	93.3
35°	100.5	97.6	95.2	92.3	89.4	87.4	86.0	84.0	82.1	82.6	83.5
37.5°	94.2	90.8	87.4	84.0	80.6	79.7	78.7	77.2	76.3	76.3	76.3
40°	87.9	84.5	81.1	77.2	73.8	72.4	70.9	69.5	68.0	68.0	68.0
42.5°	80.6	77.2	73.8	70.4	67.0	65.6	63.6	62.2	60.2	60.2	60.2
45°	74.8	71.4	68.5	65.1	61.7	59.3	56.8	53.9	51.5	51.0	50.5
47.5°	72.9	68.0	63.1	58.3	53.4	51.0	48.6	45.7	43.2	42.7	42.3
50°	83.5	73.8	64.1	54.4	44.7	42.7	40.8	38.9	36.9	35.9	35.5
52.5°	79.2	69.0	58.8	48.6	38.4	36.9	35.5	34.0	32.5	31.6	30.6
55°	51.0	46.6	42.7	38.4	34.0	33.0	32.1	30.6	29.6	28.7	27.7
57.5°	40.8	38.4	36.4	34.0	31.6	30.6	29.6	28.2	27.2	25.7	24.8
60°	36.9	35.0	33.0	31.1	29.1	28.2	27.2	26.2	25.3	23.8	22.8
62.5°	33.5	32.1	30.6	29.1	27.7	26.7	25.7	24.8	23.8	22.3	20.9
65°	30.1	29.1	28.2	27.2	26.2	25.3	24.3	22.8	21.9	20.4	18.9
67.5°	27.7	27.2	26.7	26.2	25.7	24.8	23.3	22.3	20.9	19.4	17.5
70°	26.2	26.2	26.2	25.7	25.7	24.8	23.3	22.3	20.9	18.9	17.5
72.5°	24.8	25.3	25.7	25.7	26.2	24.8	23.3	21.9	20.4	18.5	17.0
75°	23.8	24.3	24.8	24.8	25.3	24.3	23.3	21.9	20.9	18.9	17.0
77.5°	24.3	24.8	24.8	25.3	25.3	24.3	23.3	21.9	20.9	18.5	16.0
80°	24.3	23.8	23.3	22.3	21.9	19.9	18.0	15.5	13.6	10.7	8.3
82.5°	18.9	18.0	17.5	16.5	15.5	13.6	11.7	9.7	7.8	5.8	3.9
85°	15.1	14.1	13.6	12.6	11.7	10.2	8.3	6.8	4.9	3.9	2.4
87.5°	7.8	7.3	6.3	5.8	4.9	3.9	2.4	1.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1007.4	1032.2	1028.8	1025.4	1041.4	1057.4	1045.8	1034.6	1022.9	1011.3	987.0
5°	1018.6	1020.5	1017.1	1013.2	1013.7	1014.2	1006.4	998.6	990.9	983.1	981.6
7.5°	813.6	821.4	832.0	842.2	842.7	842.7	836.9	831.1	824.8	818.9	821.8
10°	576.1	574.1	577.0	580.0	579.5	578.5	594.0	609.6	624.6	640.2	629.0
12.5°	426.5	428.9	416.8	404.6	409.0	412.9	415.3	417.7	420.2	422.6	429.4
15°	257.9	250.6	241.9	233.1	237.5	241.4	245.8	249.7	254.0	257.9	262.3
17.5°	179.7	177.3	173.4	169.0	169.5	170.0	170.5	171.0	171.0	171.5	172.4
20°	155.9	157.4	154.5	151.1	150.1	148.6	147.7	146.7	145.2	144.3	142.8
22.5°	137.5	138.4	138.9	138.9	137.0	134.5	132.6	131.1	129.2	127.3	126.3
25°	124.8	125.8	124.8	123.4	122.4	121.4	120.5	119.0	118.0	116.6	116.1
27.5°	114.1	115.6	115.6	115.1	114.1	112.7	110.3	108.3	105.9	103.5	103.9
30°	103.0	104.9	104.9	104.4	103.9	103.5	101.0	98.6	96.2	93.7	94.7
32.5°	94.7	95.7	95.2	94.7	94.7	94.2	92.3	90.8	88.9	86.9	86.9
35°	84.0	84.5	84.5	84.5	84.5	84.0	82.6	81.1	79.7	78.2	78.7
37.5°	76.3	76.3	77.7	78.7	77.7	76.7	75.8	74.3	73.3	71.9	71.9
40°	67.5	67.5	69.0	69.9	69.0	68.0	67.5	66.5	66.1	65.1	65.1
42.5°	59.7	59.7	61.2	62.2	62.2	61.7	60.7	59.7	58.8	57.8	58.3
45°	50.0	49.5	52.0	53.9	52.9	52.0	52.0	51.5	51.5	51.0	51.5
47.5°	41.3	40.8	42.7	44.7	44.2	43.2	43.2	43.2	43.2	43.2	43.7
50°	34.5	33.5	35.5	36.9	36.4	35.5	35.5	35.9	35.9	35.9	36.4
52.5°	29.6	28.7	30.1	31.1	30.6	30.1	30.1	30.6	30.6	30.6	31.1
55°	26.2	25.3	26.7	27.7	27.2	26.2	26.7	26.7	27.2	27.2	27.2
57.5°	23.3	21.9	22.8	23.8	23.8	23.3	23.8	23.8	24.3	24.3	24.3
60°	21.4	19.9	20.9	21.4	21.4	20.9	21.4	21.4	21.9	21.9	21.9
62.5°	18.9	17.5	18.5	18.9	18.9	18.5	18.9	18.9	19.4	19.4	19.4
65°	17.0	15.5	16.0	16.5	16.5	16.5	17.0	17.0	17.5	17.5	17.5
67.5°	16.0	14.1	14.6	15.1	15.1	15.1	15.5	15.5	16.0	16.0	16.5
70°	15.5	13.6	14.1	14.1	14.6	14.6	14.6	15.1	15.1	15.1	15.1
72.5°	15.1	13.1	13.1	13.1	13.6	13.6	13.6	14.1	14.1	14.1	14.1
75°	15.1	13.1	12.6	12.1	12.6	12.6	12.6	13.1	13.1	13.1	13.1
77.5°	13.1	10.7	9.7	8.3	9.7	10.7	11.2	11.2	11.7	11.7	11.7
80°	5.3	2.4	1.5	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4
82.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	962.7	938.4	914.1	925.8	937.4	949.1	960.8	959.8	958.3	957.4	955.9
5°	980.7	979.2	977.8	971.0	964.6	957.8	951.0	949.6	947.6	946.2	944.2
7.5°	824.8	827.2	830.1	822.3	814.6	806.8	799.0	779.1	759.2	738.8	718.9
10°	617.8	606.2	595.0	594.0	593.1	592.1	591.1	589.2	587.2	584.8	582.9
12.5°	436.7	443.5	450.3	447.8	445.4	442.5	440.1	443.5	447.4	450.8	454.2
15°	266.2	270.5	274.4	283.2	291.9	300.7	309.4	312.8	316.7	320.1	323.5
17.5°	173.4	173.9	174.9	184.6	193.8	203.5	212.7	219.1	225.4	231.2	237.5
20°	141.3	139.9	138.4	143.8	149.1	154.5	159.8	165.6	171.5	177.3	183.1
22.5°	125.8	124.8	123.9	125.8	127.7	129.2	131.1	135.5	140.4	144.7	149.1
25°	115.6	114.6	114.1	115.1	116.1	117.1	118.0	120.5	122.9	125.3	127.7
27.5°	103.9	104.4	104.4	105.4	105.9	106.9	107.3	108.3	109.8	110.7	111.7
30°	95.2	96.2	96.7	97.6	98.1	99.1	99.6	99.1	98.6	98.1	97.6
32.5°	86.9	86.5	86.5	87.4	87.9	88.9	89.4	90.3	91.3	91.8	92.8
35°	78.7	79.2	79.2	79.2	79.7	79.7	79.7	80.6	82.1	83.1	84.0
37.5°	71.4	71.4	70.9	72.4	73.3	74.8	75.8	76.7	78.2	79.2	80.1
40°	65.1	65.1	65.1	66.1	67.0	67.5	68.5	70.9	73.3	75.8	78.2
42.5°	58.3	58.8	58.8	59.7	60.7	61.2	62.2	64.1	65.6	67.5	69.0
45°	52.0	52.5	52.9	53.9	54.4	55.4	55.9	56.8	57.3	58.3	58.8
47.5°	44.7	45.2	45.7	46.6	47.1	48.1	48.6	48.1	48.1	47.6	47.1
50°	37.4	37.9	38.4	39.8	40.8	42.3	43.2	42.3	41.3	39.8	38.9
52.5°	31.6	31.6	32.1	33.0	34.0	34.5	35.5	35.0	34.5	34.0	33.5
55°	27.2	27.2	27.2	27.7	28.2	28.7	29.1	29.6	29.6	30.1	30.1
57.5°	24.3	23.8	23.8	24.3	24.8	24.8	25.3	25.7	25.7	26.2	26.2
60°	21.9	21.4	21.4	21.9	22.3	22.8	23.3	23.3	23.3	22.8	22.8
62.5°	19.4	19.4	19.4	19.9	19.9	20.4	20.4	20.4	20.9	20.9	20.9
65°	18.0	18.0	18.0	18.0	18.0	17.5	17.5	18.0	18.0	18.5	18.5
67.5°	16.5	17.0	17.0	16.5	16.0	15.5	15.1	15.5	15.5	16.0	16.0
70°	15.1	15.1	15.1	14.6	14.1	13.6	13.1	13.1	13.1	12.6	12.6
72.5°	14.1	13.6	13.6	13.1	12.1	11.7	10.7	10.2	10.2	9.7	9.2
75°	13.1	12.6	12.6	11.7	10.7	9.7	8.7	8.3	7.3	6.8	5.8
77.5°	11.7	11.7	11.7	10.2	9.2	7.8	6.3	5.3	4.4	2.9	1.9
80°	3.9	4.4	4.9	4.4	4.4	3.9	3.4	2.4	1.9	1.0	0.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	961.2	966.6	971.9	977.3	977.8	978.2	978.7	979.2	967.1	954.4	942.3
5°	954.0	964.2	973.9	983.6	978.2	972.9	967.6	962.2	961.7	961.7	961.2
7.5°	720.3	721.3	722.8	723.7	725.7	727.6	729.1	731.0	738.8	746.6	753.8
10°	576.6	570.2	563.4	557.1	552.3	546.9	542.1	536.7	540.6	545.0	548.9
12.5°	448.8	443.5	437.6	432.3	430.4	428.4	426.0	424.0	436.7	449.3	461.4
15°	322.5	321.5	320.1	319.1	325.4	331.7	338.1	344.4	355.1	365.3	376.0
17.5°	239.9	242.4	244.8	247.2	251.1	255.0	258.4	262.3	270.1	278.3	286.1
20°	186.0	189.4	192.3	195.3	194.3	193.3	191.9	190.9	197.2	203.5	209.3
22.5°	152.0	154.5	157.4	159.8	160.3	160.8	161.3	161.7	165.6	169.0	172.9
25°	130.2	133.1	135.5	137.9	138.4	138.9	139.4	139.9	144.7	149.6	154.0
27.5°	115.1	118.0	121.4	124.3	125.3	126.3	127.3	128.2	131.1	133.6	136.5
30°	101.5	105.4	109.3	113.2	114.6	116.1	117.5	119.0	121.9	125.3	128.2
32.5°	94.7	97.1	99.1	101.0	104.4	107.3	110.7	113.7	117.1	120.9	124.3
35°	86.9	89.4	92.3	94.7	97.1	99.6	101.5	103.9	105.9	107.8	109.3
37.5°	82.1	84.5	86.5	88.4	89.4	90.3	90.8	91.8	92.8	93.7	94.2
40°	78.2	77.7	77.7	77.2	78.2	79.7	80.6	81.6	84.5	86.9	89.9
42.5°	68.0	66.5	65.6	64.1	66.5	68.5	70.9	72.9	76.7	80.6	84.5
45°	57.8	56.8	55.4	54.4	57.8	61.2	64.6	68.0	72.4	76.3	80.6
47.5°	47.6	48.1	48.1	48.6	52.0	55.4	58.3	61.7	66.1	70.4	74.8
50°	39.8	40.8	41.8	42.7	46.1	49.1	52.5	55.4	60.2	64.6	69.5
52.5°	35.0	36.4	37.4	38.9	41.8	45.2	48.1	51.0	55.4	59.7	64.1
55°	31.6	33.5	35.0	36.4	38.9	41.3	43.7	46.1	50.5	54.9	58.8
57.5°	27.7	29.1	30.6	32.1	34.5	36.9	38.9	41.3	45.2	49.5	53.4
60°	24.3	25.3	26.7	27.7	29.6	32.1	34.0	35.9	39.8	43.7	47.1
62.5°	21.4	22.3	22.8	23.3	25.3	27.2	29.1	31.1	34.5	38.4	41.8
65°	18.9	19.4	19.4	19.9	21.4	23.3	24.8	26.2	30.1	33.5	37.4
67.5°	16.0	16.5	16.5	16.5	18.0	19.4	20.9	22.3	25.7	29.6	33.0
70°	12.6	13.1	13.1	13.1	14.6	16.5	18.0	19.4	22.3	25.3	28.2
72.5°	9.7	9.7	10.2	10.2	11.7	13.6	15.1	16.5	18.9	21.4	23.8
75°	6.3	6.8	6.8	7.3	8.7	10.7	12.1	13.6	16.0	18.5	20.4
77.5°	2.4	3.4	3.9	4.4	5.8	7.3	8.7	10.2	12.1	14.6	16.5
80°	0.0	0.5	0.5	0.5	1.5	1.9	2.9	3.4	4.9	6.8	8.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	929.7	956.4	983.1	1009.8	1036.5	1069.6	1102.6	1107.5	1112.3	1106.5	1101.1
5°	960.8	973.9	986.5	999.6	1012.2	1050.1	1087.5	1088.0	1088.0	1088.5	1088.5
7.5°	761.6	772.8	784.0	794.6	805.8	830.6	855.4	864.6	873.3	871.4	869.4
10°	552.8	567.3	581.4	596.0	610.1	632.9	655.7	664.5	672.7	699.4	726.6
12.5°	474.1	488.2	502.2	515.8	529.9	553.2	576.6	593.6	610.1	626.6	643.1
15°	386.2	397.3	409.0	420.2	431.3	442.0	452.7	473.6	494.0	510.5	527.0
17.5°	293.9	298.7	303.1	307.9	312.3	317.2	322.0	330.8	339.0	353.6	367.7
20°	215.7	219.5	223.4	226.8	230.7	235.6	240.4	246.7	252.6	256.0	258.9
22.5°	176.3	182.1	188.0	193.3	199.1	202.5	205.9	207.9	209.8	211.3	212.7
25°	158.8	164.2	169.0	174.4	179.2	180.7	182.1	186.0	189.9	189.9	189.9
27.5°	138.9	146.2	154.0	161.3	168.5	170.5	171.9	173.4	174.4	172.4	170.0
30°	131.1	138.4	145.7	152.5	159.8	162.7	165.1	166.6	168.1	165.6	163.2
32.5°	127.7	134.5	140.9	147.7	154.0	157.9	161.3	165.1	168.5	169.0	170.0
35°	111.2	115.6	120.5	124.8	129.2	131.1	133.1	134.5	135.5	135.5	135.5
37.5°	95.2	101.0	107.3	113.2	119.0	123.4	127.7	128.2	128.2	129.2	130.7
40°	92.3	98.1	103.9	109.3	115.1	120.0	124.3	124.8	125.3	126.3	127.3
42.5°	88.4	94.7	101.0	107.3	113.7	118.5	122.9	122.9	122.4	123.9	124.8
45°	84.5	90.8	96.7	103.0	108.8	115.1	120.9	119.5	117.5	120.0	121.9
47.5°	79.2	86.0	92.8	99.1	105.9	111.7	117.1	116.1	114.6	117.1	119.5
50°	73.8	80.6	87.4	94.2	101.0	107.3	113.2	112.2	111.2	114.1	116.6
52.5°	68.5	75.3	82.6	89.4	96.2	101.5	106.4	105.9	105.4	108.3	111.7
55°	63.1	69.5	76.3	82.6	88.9	94.7	100.1	99.1	98.1	100.5	103.0
57.5°	57.3	63.6	69.5	75.8	81.6	86.5	90.8	89.4	87.9	90.8	93.7
60°	51.0	56.8	62.7	68.0	73.8	77.7	81.1	80.1	78.7	81.6	84.5
62.5°	45.2	50.5	55.9	60.7	66.1	69.0	71.9	70.9	69.9	72.9	76.3
65°	40.8	45.2	49.1	53.4	57.3	60.2	63.1	61.7	60.2	63.6	66.5
67.5°	36.4	39.8	43.7	47.1	50.5	52.9	55.4	54.4	52.9	55.4	57.8
70°	31.1	34.5	37.9	40.8	44.2	46.6	49.1	47.6	45.7	48.1	50.5
72.5°	26.2	29.1	32.1	34.5	37.4	39.3	41.3	39.8	38.4	40.3	42.3
75°	22.8	25.3	27.7	29.6	32.1	33.0	34.0	33.5	32.5	34.5	35.9
77.5°	18.5	20.4	22.8	24.8	26.7	26.7	26.7	27.2	27.2	29.1	31.6
80°	9.7	11.7	13.6	15.1	17.0	17.0	16.5	17.5	18.0	20.4	22.8
82.5°	0.0	1.5	2.9	4.4	5.8	5.3	4.4	4.9	4.9	5.8	6.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909

CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1095.3	1089.5	1085.6	1082.2	1078.3	1074.4	1079.3	1084.1	1088.5	1093.4	1107.9
5°	1089.0	1089.0	1085.6	1082.2	1078.8	1075.4	1082.7	1089.5	1096.8	1103.6	1103.1
7.5°	867.0	865.1	885.5	905.4	925.8	945.7	951.0	956.4	961.2	966.6	965.1
10°	753.4	780.1	788.8	797.6	806.3	815.0	825.7	836.4	847.1	857.8	861.7
12.5°	659.6	676.1	704.3	732.0	760.2	787.8	801.9	816.5	830.6	844.7	872.4
15°	543.5	560.0	584.3	608.6	632.9	657.2	679.5	702.4	724.7	747.0	780.6
17.5°	382.3	396.4	414.8	433.3	451.2	469.7	504.2	538.7	573.2	607.6	643.1
20°	262.3	265.2	273.9	283.2	291.9	300.7	331.7	363.3	394.4	425.5	472.1
22.5°	213.7	215.2	219.5	223.9	227.8	232.2	248.2	264.7	280.7	296.8	334.7
25°	189.4	189.4	192.3	195.3	198.2	201.1	209.8	218.6	226.8	235.6	259.9
27.5°	168.1	165.6	170.0	174.4	178.7	183.1	189.4	196.2	202.5	208.9	225.4
30°	160.8	158.3	163.7	169.0	174.4	179.7	186.0	192.3	198.2	204.5	215.7
32.5°	170.5	171.0	172.9	174.9	176.3	178.3	181.2	184.6	187.5	190.4	200.1
35°	135.5	135.5	138.9	142.3	145.2	148.6	154.0	159.3	164.7	170.0	180.2
37.5°	131.6	132.6	135.5	138.9	141.8	144.7	151.5	158.8	165.6	172.4	180.7
40°	127.7	128.7	132.6	136.5	140.4	144.3	151.1	157.4	164.2	170.5	178.3
42.5°	126.3	127.3	132.1	137.5	142.3	147.2	153.0	158.8	164.2	170.0	180.7
45°	124.3	126.3	132.1	138.4	144.3	150.1	155.4	160.8	166.1	171.5	184.6
47.5°	121.4	123.9	130.7	137.0	143.8	150.1	160.3	171.0	181.2	191.4	197.7
50°	119.5	121.9	129.2	136.5	143.8	151.1	167.6	184.1	200.1	216.6	213.2
52.5°	114.6	117.5	126.8	136.0	145.2	154.5	169.0	183.6	198.2	212.7	205.9
55°	105.4	107.8	118.5	129.2	139.4	150.1	160.8	171.5	181.7	192.3	184.6
57.5°	96.2	99.1	109.3	119.5	129.2	139.4	144.7	150.1	155.4	160.8	157.9
60°	87.4	90.3	103.9	117.5	131.1	144.7	139.9	135.0	129.7	124.8	128.2
62.5°	79.2	82.1	95.2	107.8	120.9	133.6	126.8	120.0	113.2	106.4	111.7
65°	69.9	72.9	77.7	83.1	87.9	92.8	92.3	91.3	90.8	89.9	95.7
67.5°	60.2	62.7	65.1	68.0	70.4	72.9	74.3	76.3	77.7	79.2	84.0
70°	52.5	54.9	57.8	60.2	63.1	65.6	66.5	67.5	68.0	69.0	73.3
72.5°	43.7	45.7	49.5	53.4	56.8	60.7	61.2	61.2	61.7	61.7	65.1
75°	37.9	39.3	42.3	45.2	47.6	50.5	52.0	53.4	54.4	55.9	57.8
77.5°	33.5	35.5	36.4	36.9	37.9	38.4	39.3	40.3	41.3	42.3	42.7
80°	24.8	27.2	28.2	28.7	29.6	30.1	30.1	29.6	29.6	29.1	29.6
82.5°	7.8	8.7	10.2	11.7	13.1	14.6	15.1	15.5	15.5	16.0	15.5
85°	1.5	1.9	2.9	3.9	4.4	5.3	4.9	3.9	3.4	2.4	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1122.5	1136.6	1151.2	1145.3	1139.5	1133.7	1127.9	1128.8	1130.3	1131.3	1132.2
5°	1102.6	1101.6	1101.1	1117.7	1134.7	1151.2	1167.7	1185.7	1204.1	1222.1	1240.1
7.5°	963.7	961.7	960.3	981.6	1003.0	1024.4	1045.8	1070.5	1095.8	1120.6	1145.3
10°	865.6	869.4	873.3	882.1	891.3	900.0	908.8	932.6	956.4	979.7	1003.5
12.5°	900.0	927.2	954.9	960.3	965.1	970.5	975.3	978.7	982.1	985.5	988.9
15°	814.6	848.1	881.6	895.7	909.3	923.4	937.0	972.9	1008.4	1044.3	1079.8
17.5°	678.6	713.5	749.0	791.2	833.5	875.8	918.0	956.9	995.7	1034.6	1073.4
20°	519.2	565.9	612.5	665.9	719.8	773.3	826.7	865.6	903.9	942.8	981.2
22.5°	373.0	410.9	448.8	513.4	577.5	642.1	706.2	773.8	841.8	909.3	976.8
25°	284.1	307.9	332.2	395.9	459.5	522.6	586.3	679.0	771.8	864.6	957.4
27.5°	241.4	257.9	273.9	331.3	388.6	445.4	502.7	613.0	723.2	833.5	943.8
30°	227.3	238.5	249.7	298.2	347.3	395.9	444.4	556.2	667.9	779.6	891.3
32.5°	209.8	219.1	228.8	271.5	314.3	356.5	399.3	508.6	617.8	726.6	835.9
35°	189.9	200.1	209.8	252.6	295.3	337.6	380.3	493.5	606.7	719.8	833.0
37.5°	188.5	196.7	204.5	254.0	304.1	353.6	403.2	516.3	629.5	742.2	855.4
40°	186.5	194.3	202.1	252.6	302.6	353.1	403.2	521.7	640.2	758.7	877.2
42.5°	191.4	201.6	212.3	256.9	301.6	345.8	390.5	515.4	640.2	764.5	889.4
45°	198.2	211.3	224.4	265.2	306.0	346.8	387.6	523.1	658.6	793.7	929.2
47.5°	204.5	210.8	217.1	256.0	294.3	333.2	371.6	510.0	648.4	786.9	925.3
50°	210.3	206.9	203.5	246.3	289.0	331.3	374.0	506.1	637.8	769.9	901.5
52.5°	198.7	191.9	184.6	230.2	275.9	321.1	366.7	499.8	632.9	766.0	899.1
55°	176.8	169.0	161.3	206.4	251.1	296.3	341.0	473.6	606.2	738.8	871.4
57.5°	154.5	151.5	148.1	182.6	217.1	251.1	285.6	432.8	580.4	727.6	874.8
60°	131.6	134.5	137.9	162.7	187.5	211.8	236.5	380.8	524.6	668.8	812.6
62.5°	116.6	121.9	126.8	147.7	169.0	189.9	210.8	346.8	482.8	618.8	754.8
65°	102.0	107.8	113.7	138.4	163.7	188.5	213.2	328.3	443.5	558.6	673.7
67.5°	88.9	93.3	98.1	130.7	163.2	195.7	228.3	322.5	416.3	510.5	604.2
70°	77.7	81.6	86.0	123.9	161.7	199.6	237.5	317.7	398.3	478.4	558.6
72.5°	68.5	71.9	75.3	113.7	152.0	190.4	228.8	300.2	371.1	442.5	513.4
75°	59.7	61.2	63.1	95.7	127.7	160.3	192.3	239.9	288.0	335.6	383.2
77.5°	43.2	43.2	43.7	53.4	62.7	72.4	81.6	111.2	140.9	170.0	199.6
80°	29.6	30.1	30.1	34.0	37.4	41.3	44.7	51.0	56.8	63.1	69.0
82.5°	15.1	14.1	13.6	17.5	21.4	25.3	29.1	30.6	31.6	33.0	34.0
85°	1.5	0.5	0.0	2.4	4.9	7.3	9.7	11.7	13.6	15.5	17.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909

CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1128.3	1124.5	1120.6	1116.7	1140.5	1164.8	1188.6	1212.4	1279.9	1324.1	1319.2
5°	1257.5	1275.0	1292.5	1310.0	1338.2	1366.8	1395.0	1423.2	1523.2	1584.4	1593.2
7.5°	1172.5	1199.3	1226.5	1253.2	1307.6	1361.5	1415.9	1469.8	1551.9	1615.5	1651.5
10°	1034.1	1064.7	1094.8	1125.4	1186.6	1248.3	1309.5	1370.7	1463.0	1550.9	1596.1
12.5°	1037.0	1085.1	1133.2	1181.3	1234.7	1288.1	1341.1	1394.5	1450.9	1480.5	1544.1
15°	1117.7	1155.5	1193.4	1231.3	1301.3	1371.2	1440.7	1510.6	1544.1	1615.5	1689.8
17.5°	1147.3	1221.6	1295.4	1369.3	1456.7	1543.6	1631.1	1718.0	1781.1	1880.2	1957.0
20°	1092.4	1203.6	1314.4	1425.6	1545.6	1665.5	1785.5	1905.5	1974.5	2068.7	2187.2
22.5°	1094.8	1212.9	1330.4	1448.4	1614.1	1779.2	1944.8	2110.0	2295.0	2476.7	2534.5
25°	1111.8	1266.3	1420.3	1574.7	1766.1	1957.5	2148.8	2340.2	2563.7	2754.5	2831.3
27.5°	1117.7	1291.5	1464.9	1638.8	1910.8	2182.8	2454.8	2726.9	2993.5	3209.2	3291.3
30°	1103.6	1316.3	1528.6	1740.8	2074.5	2408.2	2741.9	3075.6	3328.7	3579.8	3681.8
32.5°	1107.0	1378.0	1649.0	1920.1	2313.0	2706.5	3099.4	3492.4	3654.1	3880.4	4060.2
35°	1130.3	1427.5	1724.3	2021.6	2456.3	2891.0	3325.8	3760.5	4025.7	4264.7	4417.2
37.5°	1184.7	1514.0	1842.8	2172.2	2706.5	3241.2	3775.5	4309.8	4720.3	5130.7	5200.6
40°	1225.0	1572.8	1920.6	2268.3	2888.6	3508.9	4129.1	4749.4	5213.8	5659.2	5706.8
42.5°	1270.7	1651.5	2032.8	2413.6	3107.2	3800.8	4494.4	5188.0	5725.7	6179.9	6211.4
45°	1320.7	1712.7	2104.2	2495.6	3222.3	3948.4	4675.1	5401.3	6029.3	6556.8	6437.8
47.5°	1344.5	1763.7	2182.8	2602.0	3381.1	4159.7	4938.8	5717.5	6280.9	6746.2	6607.3
50°	1362.9	1823.9	2285.3	2746.3	3563.3	4380.3	5197.2	6014.2	6579.1	7008.5	6790.9
52.5°	1414.9	1930.3	2446.1	2961.5	3830.4	4698.9	5567.9	6436.3	6982.8	7377.2	7072.1
55°	1465.4	2059.0	2653.0	3246.6	4181.1	5116.1	6050.7	6985.2	7529.2	7867.3	7452.9
57.5°	1529.1	2183.8	2838.1	3492.4	4492.0	5491.6	6490.7	7490.3	8022.2	8395.7	7965.4
60°	1512.5	2212.0	2911.9	3611.4	4629.4	5647.5	6665.6	7683.7	8315.6	8774.6	8482.7
62.5°	1448.4	2142.0	2835.2	3528.8	4528.9	5528.5	6528.6	7528.2	8285.5	8907.2	8809.1
65°	1318.7	1963.3	2608.3	3252.9	4207.8	5163.2	6118.2	7073.1	8007.6	8798.9	8833.9
67.5°	1148.3	1692.3	2235.8	2779.8	3670.6	4561.4	5451.8	6342.6	7445.7	8368.5	8472.5
70°	967.6	1376.1	1785.0	2193.5	2977.5	3761.4	4544.9	5328.9	6475.7	7404.4	7600.6
72.5°	775.7	1038.5	1300.8	1563.1	2128.9	2694.3	3260.2	3825.6	4834.4	5555.2	5897.7
75°	502.7	622.2	741.7	861.2	1238.1	1614.5	1991.5	2367.9	3037.7	3568.6	3955.7
77.5°	223.9	248.2	272.0	296.3	587.2	878.2	1169.1	1460.1	1751.0	2071.6	2162.4
80°	80.1	90.8	102.0	112.7	255.5	398.8	541.6	684.4	825.2	990.9	1031.2
82.5°	33.5	33.5	33.0	32.5	83.5	134.5	185.5	236.5	273.5	314.3	322.0
85°	13.6	10.2	6.3	2.4	10.7	19.4	27.7	35.9	57.8	52.5	97.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909

CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1300.8	1299.8	1298.8	1297.9	1296.9	1279.4	1262.4	1244.9	1227.9	1249.3	1270.7
5°	1579.1	1604.3	1629.6	1655.3	1680.6	1687.9	1695.2	1702.5	1709.7	1725.3	1740.8
7.5°	1681.6	1724.3	1766.6	1809.3	1851.6	1890.9	1929.8	1969.1	2008.5	1998.8	1989.0
10°	1646.1	1723.3	1800.6	1878.3	1955.5	1972.5	1989.5	2007.0	2024.0	2068.2	2112.4
12.5°	1607.7	1700.5	1793.3	1886.1	1978.8	2030.3	2081.3	2132.8	2184.3	2229.0	2273.7
15°	1789.9	1849.2	1908.4	1968.2	2027.4	2072.6	2117.3	2162.4	2207.1	2238.2	2268.8
17.5°	2029.4	2058.5	2087.6	2117.3	2146.4	2181.9	2217.3	2252.8	2288.2	2306.7	2325.2
20°	2282.4	2295.0	2307.7	2320.3	2332.9	2304.8	2276.6	2248.4	2220.2	2237.7	2254.7
22.5°	2536.5	2540.8	2545.7	2550.1	2554.4	2488.8	2423.3	2357.7	2292.1	2264.4	2236.8
25°	2927.5	2895.4	2863.3	2831.3	2799.2	2721.5	2643.8	2566.1	2488.4	2419.9	2351.4
27.5°	3351.0	3242.2	3133.9	3025.1	2916.8	2839.1	2761.3	2683.6	2605.9	2502.9	2400.0
30°	3778.0	3602.6	3427.8	3252.4	3077.5	2985.3	2893.0	2800.2	2707.9	2604.9	2502.4
32.5°	4169.5	3958.7	3747.8	3536.6	3325.8	3170.3	3014.9	2859.5	2704.0	2632.1	2560.3
35°	4493.9	4244.7	3995.6	3745.9	3496.7	3342.8	3188.8	3034.8	2880.8	2774.0	2667.6
37.5°	5048.6	4768.4	4488.1	4207.8	3927.6	3717.2	3507.4	3297.1	3086.8	3015.4	2944.0
40°	5560.1	5207.0	4853.8	4500.7	4147.6	3971.3	3795.4	3619.1	3443.3	3326.2	3209.7
42.5°	5966.6	5594.6	5223.0	4850.9	4478.9	4304.5	4130.6	3956.2	3781.8	3703.6	3625.9
45°	6054.5	5703.9	5353.6	5003.0	4652.3	4550.7	4449.7	4348.2	4247.2	4193.3	4139.8
47.5°	6228.0	5847.6	5467.8	5087.5	4707.2	4661.5	4615.8	4569.7	4524.0	4549.8	4575.5
50°	6325.1	5937.0	5548.9	5160.8	4772.7	4785.8	4798.5	4811.6	4824.7	5007.3	5189.5
52.5°	6513.6	6121.6	5729.6	5337.6	4945.6	5028.2	5110.3	5192.9	5275.0	5526.6	5777.7
55°	6850.2	6465.0	6079.8	5694.1	5309.0	5417.8	5526.6	5635.9	5744.7	6011.8	6278.5
57.5°	7349.0	6966.7	6585.0	6202.7	5820.9	5929.2	6037.5	6145.9	6254.2	6495.6	6736.5
60°	7977.0	7584.6	7192.6	6800.1	6408.2	6449.0	6489.3	6530.1	6570.9	6830.3	7089.1
62.5°	8466.2	8105.3	7744.9	7384.0	7023.6	6978.4	6933.7	6888.5	6843.9	7041.1	7237.8
65°	8579.8	8325.8	8072.2	7818.2	7564.2	7425.3	7286.8	7147.9	7009.0	7088.7	7168.3
67.5°	8254.4	8082.9	7912.0	7740.5	7569.0	7279.1	6989.1	6698.6	6408.6	6366.4	6324.1
70°	7499.1	7405.3	7312.1	7218.3	7125.1	6678.2	6231.8	5785.0	5338.6	5231.2	5123.9
72.5°	5917.6	5975.9	6034.1	6092.9	6151.2	5672.8	5194.8	4716.4	4237.9	4101.9	3966.4
75°	4172.9	4370.5	4568.2	4765.9	4963.6	4527.4	4091.7	3655.6	3219.4	3088.7	2958.5
77.5°	2262.5	2633.1	3003.7	3374.3	3744.9	3385.0	3025.6	2665.7	2305.7	2214.9	2124.6
80°	1072.5	1286.2	1499.4	1713.1	1926.9	1845.8	1764.6	1683.0	1601.9	1621.8	1641.7
82.5°	328.8	483.3	637.8	792.2	946.7	958.8	970.5	982.6	994.8	1024.9	1054.5
85°	110.3	151.1	191.9	232.7	273.5	345.3	417.2	489.6	561.5	514.9	468.7
87.5°	0.0	1.5	2.4	3.9	4.9	15.1	25.3	35.5	45.7	39.3	33.5
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: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909

CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1292.5	1313.9	1314.4	1315.3	1315.8	1316.3	1318.7	1321.2	1324.1	1326.5	1310.5
5°	1756.9	1772.4	1743.7	1715.1	1685.9	1657.3	1683.0	1708.8	1734.5	1760.3	1749.1
7.5°	1978.8	1969.1	1965.7	1962.8	1959.4	1956.5	1966.2	1975.9	1985.6	1995.4	1994.4
10°	2156.6	2200.8	2211.5	2222.2	2233.4	2244.0	2221.7	2199.4	2177.0	2154.7	2145.4
12.5°	2318.4	2363.0	2398.5	2434.0	2469.9	2505.4	2473.3	2441.7	2409.7	2378.1	2348.0
15°	2299.9	2330.5	2359.6	2388.8	2417.9	2447.1	2436.4	2426.2	2415.5	2404.8	2400.0
17.5°	2344.1	2362.6	2355.8	2349.0	2341.7	2334.9	2331.5	2328.6	2325.2	2321.8	2310.1
20°	2272.2	2289.7	2285.3	2281.4	2277.1	2272.7	2269.8	2266.9	2264.0	2261.0	2251.8
22.5°	2209.1	2181.4	2174.1	2167.3	2160.0	2153.2	2154.2	2155.2	2155.6	2156.6	2198.4
25°	2282.9	2214.4	2187.7	2161.0	2133.8	2107.1	2119.2	2130.9	2143.0	2155.2	2215.4
27.5°	2296.5	2193.5	2150.8	2108.0	2065.3	2022.6	2066.3	2110.0	2153.7	2197.4	2295.0
30°	2399.5	2297.0	2237.2	2178.0	2118.2	2059.0	2114.8	2170.7	2226.6	2282.4	2388.3
32.5°	2487.9	2416.0	2373.2	2330.5	2287.8	2245.0	2247.4	2249.4	2251.8	2254.2	2403.4
35°	2560.7	2454.4	2415.5	2377.1	2338.3	2299.9	2357.7	2415.5	2473.3	2531.1	2665.2
37.5°	2872.6	2801.2	2729.8	2658.9	2587.5	2516.5	2562.7	2608.8	2655.5	2701.6	2849.7
40°	3092.6	2976.0	2957.6	2939.6	2921.1	2903.2	2927.0	2950.3	2974.1	2997.9	3127.6
42.5°	3547.7	3469.5	3419.5	3370.0	3319.9	3270.4	3289.3	3308.3	3327.7	3346.6	3469.5
45°	4085.9	4032.0	3999.0	3965.9	3932.4	3899.4	3870.7	3842.6	3813.9	3785.7	3910.6
47.5°	4601.3	4627.0	4699.9	4772.2	4845.1	4917.5	4858.2	4799.0	4739.2	4680.0	4680.4
50°	5372.1	5554.3	5591.2	5627.6	5664.5	5700.9	5574.7	5448.4	5321.6	5195.3	5180.2
52.5°	6029.3	6280.4	6293.5	6306.6	6320.2	6333.4	6282.4	6231.4	6179.9	6128.9	5993.3
55°	6545.6	6812.3	6830.3	6847.7	6865.7	6883.2	6838.5	6794.3	6749.6	6704.9	6568.0
57.5°	6977.9	7218.8	7229.5	7239.7	7250.4	7261.1	7264.5	7267.9	7271.8	7275.2	7090.1
60°	7348.5	7607.9	7586.5	7565.6	7544.3	7523.4	7491.3	7459.3	7427.2	7395.1	7275.7
62.5°	7435.0	7632.2	7599.2	7566.6	7533.6	7501.0	7473.8	7447.1	7419.9	7392.7	7316.5
65°	7248.0	7327.6	7293.6	7259.6	7225.1	7191.1	7173.7	7156.7	7139.2	7121.7	7112.0
67.5°	6281.4	6239.1	6279.4	6319.8	6360.1	6400.4	6455.3	6510.2	6565.5	6620.4	6588.4
70°	5016.1	4908.7	4953.4	4997.6	5042.3	5086.5	5169.6	5252.6	5336.2	5419.2	5396.9
72.5°	3830.4	3694.4	3700.7	3707.0	3713.8	3720.2	3717.7	3715.8	3713.4	3710.9	3749.8
75°	2827.9	2697.2	2635.5	2573.9	2512.2	2450.5	2435.4	2420.4	2405.3	2390.2	2462.6
77.5°	2033.7	1943.4	1901.1	1859.4	1817.1	1775.3	1796.7	1818.1	1839.9	1861.3	1886.6
80°	1662.1	1682.1	1649.5	1617.5	1584.9	1552.4	1576.7	1600.5	1624.7	1649.0	1573.7
82.5°	1084.6	1114.3	1014.2	914.1	814.1	714.0	774.7	835.4	896.6	957.4	926.3
85°	422.1	376.0	320.6	265.7	210.3	154.9	201.6	248.2	294.8	341.5	372.6
87.5°	27.2	21.4	17.0	12.6	7.8	3.4	7.3	11.2	15.5	19.4	32.5
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: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909

CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1294.9	1278.9	1263.4	1232.8	1202.2	1171.6	1141.0	1183.7	1226.5	1269.2	1311.9
5°	1738.4	1727.2	1716.5	1719.5	1722.4	1725.8	1728.7	1735.0	1741.3	1747.1	1753.5
7.5°	1993.9	1992.9	1992.0	1969.6	1947.3	1924.4	1902.1	1913.3	1924.4	1935.6	1946.8
10°	2136.7	2127.5	2118.2	2069.2	2020.1	1970.6	1921.5	1900.2	1878.3	1856.9	1835.6
12.5°	2317.9	2287.3	2257.2	2204.7	2152.7	2100.3	2047.8	2028.4	2008.5	1989.0	1969.1
15°	2395.6	2390.7	2386.4	2349.0	2311.1	2273.7	2235.8	2169.2	2102.2	2035.7	1969.1
17.5°	2298.4	2286.3	2274.6	2333.9	2392.7	2451.9	2511.2	2442.2	2373.2	2304.3	2235.3
20°	2242.6	2233.4	2224.1	2334.4	2444.2	2554.4	2664.2	2633.6	2602.5	2571.9	2541.3
22.5°	2240.2	2282.4	2324.2	2420.8	2517.0	2613.7	2709.9	2762.8	2816.2	2869.2	2922.1
25°	2275.6	2336.3	2396.6	2556.9	2717.1	2877.9	3038.2	3098.9	3159.1	3219.9	3280.1
27.5°	2392.2	2489.8	2587.0	2726.9	2866.7	3007.1	3147.0	3279.6	3412.7	3545.3	3677.9
30°	2493.7	2599.6	2705.5	2872.1	3038.2	3204.8	3370.9	3537.0	3703.2	3869.3	4035.4
32.5°	2552.5	2702.1	2851.2	3053.7	3255.8	3458.4	3660.9	3843.0	4025.2	4206.9	4389.0
35°	2799.2	2933.8	3067.8	3291.8	3515.7	3740.1	3964.0	4189.4	4414.7	4639.6	4865.0
37.5°	2997.9	3146.5	3294.7	3539.5	3783.8	4028.6	4273.4	4584.7	4896.6	5207.9	5519.3
40°	3257.3	3387.0	3516.6	3745.9	3974.7	4203.9	4433.2	4828.1	5223.0	5617.4	6012.3
42.5°	3591.9	3714.8	3837.7	4083.0	4328.3	4573.6	4818.9	5256.0	5693.2	6129.8	6567.0
45°	4035.4	4160.7	4285.5	4480.8	4676.1	4871.3	5066.6	5531.4	5995.8	6460.6	6925.0
47.5°	4680.9	4681.4	4681.9	4822.8	4963.6	5105.0	5245.8	5714.1	6181.8	6650.0	7117.8
50°	5165.2	5149.6	5134.6	5207.4	5279.8	5352.7	5425.5	5856.4	6287.7	6718.5	7149.4
52.5°	5858.3	5722.8	5587.8	5631.0	5673.7	5717.0	5759.7	6124.5	6489.8	6854.5	7219.3
55°	6431.5	6294.5	6157.5	6141.5	6125.5	6109.4	6093.4	6429.0	6764.7	7100.3	7435.9
57.5°	6905.5	6720.5	6535.9	6499.0	6462.6	6425.6	6388.7	6742.8	7096.4	7450.5	7804.1
60°	7156.7	7037.2	6917.7	6893.9	6869.6	6845.8	6821.5	7112.0	7402.4	7692.9	7983.4
62.5°	7240.7	7164.4	7088.7	7133.3	7178.0	7223.2	7267.9	7395.6	7522.9	7650.6	7777.9
65°	7102.7	7093.0	7083.3	7175.1	7266.4	7358.2	7450.0	7418.5	7386.4	7354.8	7323.3
67.5°	6556.8	6524.7	6493.2	6694.7	6895.8	7097.4	7299.0	7146.0	6992.5	6839.5	6686.5
70°	5374.5	5351.7	5329.4	5619.8	5910.3	6201.2	6491.7	6306.2	6120.6	5935.1	5749.5
72.5°	3788.2	3827.0	3865.9	4208.3	4550.3	4892.7	5234.6	5047.6	4860.6	4673.6	4486.6
75°	2534.5	2606.9	2679.3	3031.9	3384.5	3737.6	4090.3	3870.7	3651.2	3431.6	3212.1
77.5°	1911.8	1937.1	1962.3	2185.3	2408.2	2631.7	2854.6	2673.4	2491.8	2310.6	2128.9
80°	1498.5	1422.7	1347.4	1420.7	1494.1	1567.4	1640.8	1532.5	1424.1	1316.3	1208.0
82.5°	895.2	864.1	833.0	872.8	912.2	952.0	991.8	945.2	898.1	851.5	804.4
85°	403.2	434.2	464.8	505.2	545.0	585.3	625.6	560.5	495.4	430.4	365.3
87.5°	45.2	58.3	71.4	88.4	105.4	122.4	139.4	108.8	77.7	47.1	16.5
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: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367909
 CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1026.8	1026.8
2.5°	1336.7	1361.5
5°	1753.0	1752.0
7.5°	1917.6	1888.0
10°	1808.4	1781.1
12.5°	1899.7	1830.2
15°	1916.7	1864.2
17.5°	2149.8	2063.8
20°	2431.0	2320.3
22.5°	2770.6	2618.5
25°	3099.4	2918.7
27.5°	3569.6	3460.8
30°	3925.6	3815.4
32.5°	4314.2	4239.4
35°	4790.7	4715.9
37.5°	5538.7	5557.7
40°	6023.9	6035.6
42.5°	6612.2	6657.3
45°	6975.5	7026.0
47.5°	7188.2	7258.7
50°	7263.0	7376.7
52.5°	7359.7	7499.6
55°	7591.9	7747.8
57.5°	7928.5	8052.8
60°	7989.2	7995.0
62.5°	7688.0	7598.2
65°	7227.6	7131.9
67.5°	6628.7	6570.4
70°	5672.8	5596.0
72.5°	4343.8	4201.0
75°	3035.3	2858.5
77.5°	2036.2	1943.4
80°	1210.9	1213.3
82.5°	826.7	848.6
85°	360.9	356.0
87.5°	11.7	6.3
90°	0.0	0.0
92.5°	0.0	0.0
95°	0.0	0.0
97.5°	0.0	0.0
100°	0.0	0.0
102.5°	0.0	0.0
105°	0.0	0.0
107.5°	0.0	0.0
110°	0.0	0.0



REPORT NUMBER: P367909
CATALOG NUMBER: MSA-SA3B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)