

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: P367778

Luminaire Tested: **MSA-SA3A-830-U-SLR**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: MSA-SA3A-830-U-SLR  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7985 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

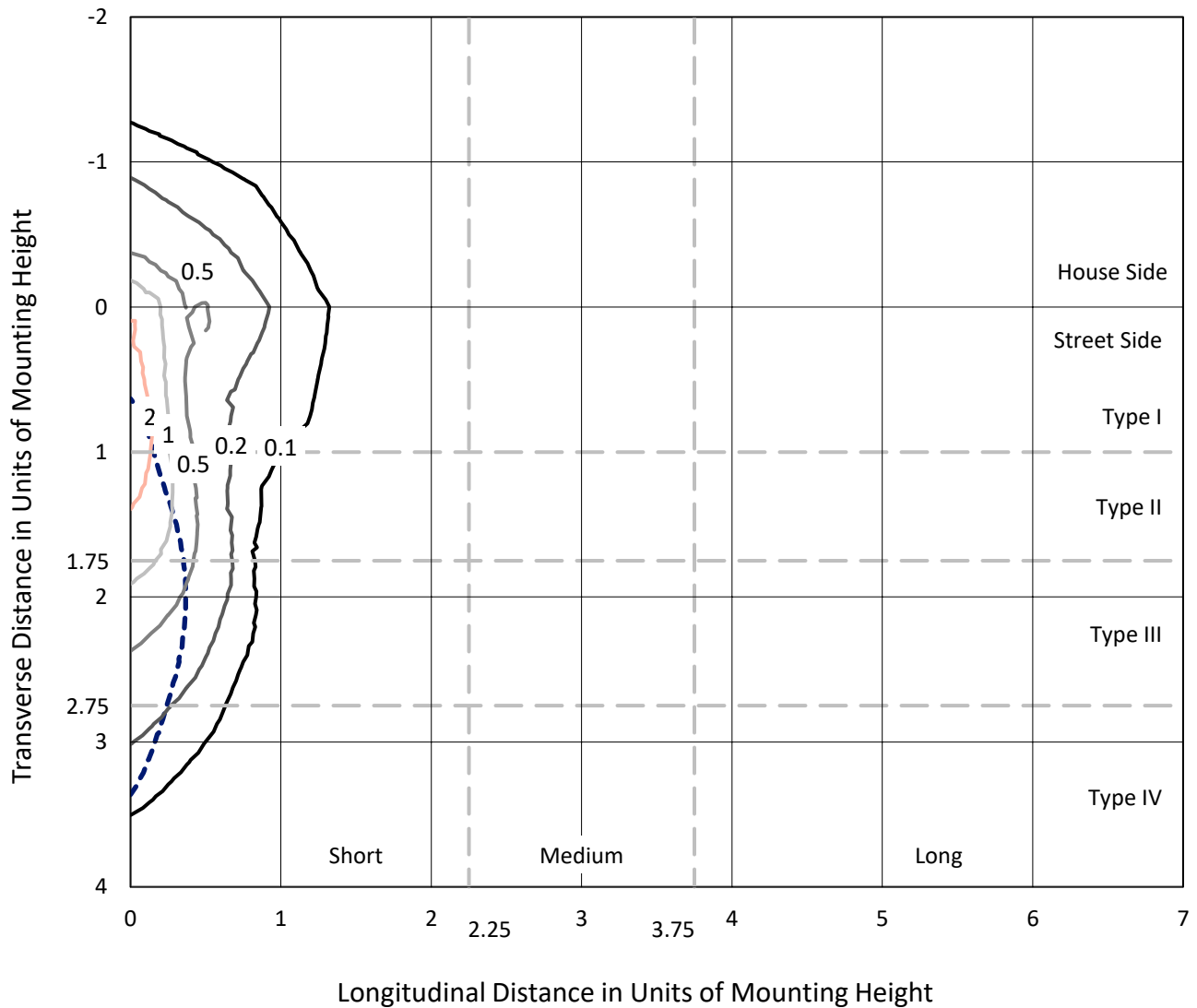
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P367778  
 CATALOG NUMBER: MSA-SA3A-830-U-SLR

### Iso-Footcandle Lines of Horizontal Illumination

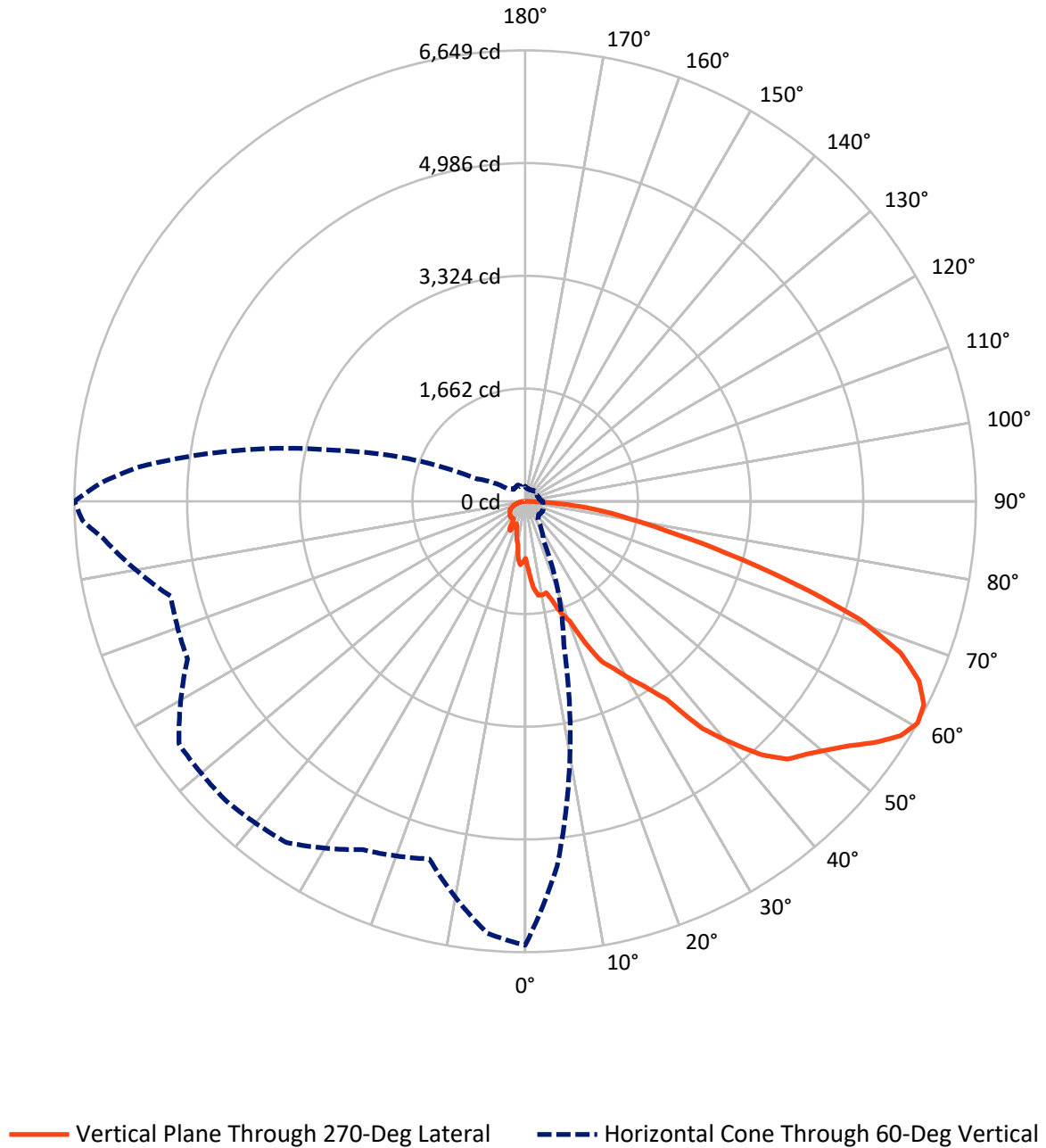
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P367778  
CATALOG NUMBER: MSA-SA3A-830-U-SLR

### Luminous Intensity Polar Plot



REPORT NUMBER: P367778

CATALOG NUMBER: MSA-SA3A-830-U-SLR

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1546.5	0.0	1546.5
	% Fixture	19.4	0.0	19.4
<b>Street Side</b>	Lumens	6438.5	0.0	6438.5
	% Fixture	80.6	0.0	80.6
<b>Total</b>	Lumens	7985.0	0.0	7985.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	1.2
10°-20°	280.6	3.5
20°-30°	495.3	6.2
30°-40°	771.4	9.7
40°-50°	1270.0	15.9
50°-60°	1812.7	22.7
60°-70°	1922.1	24.1
70°-80°	1061.7	13.3
80°-90°	274.7	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°	7985.0	100.0
0°-180°	7985.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P367778

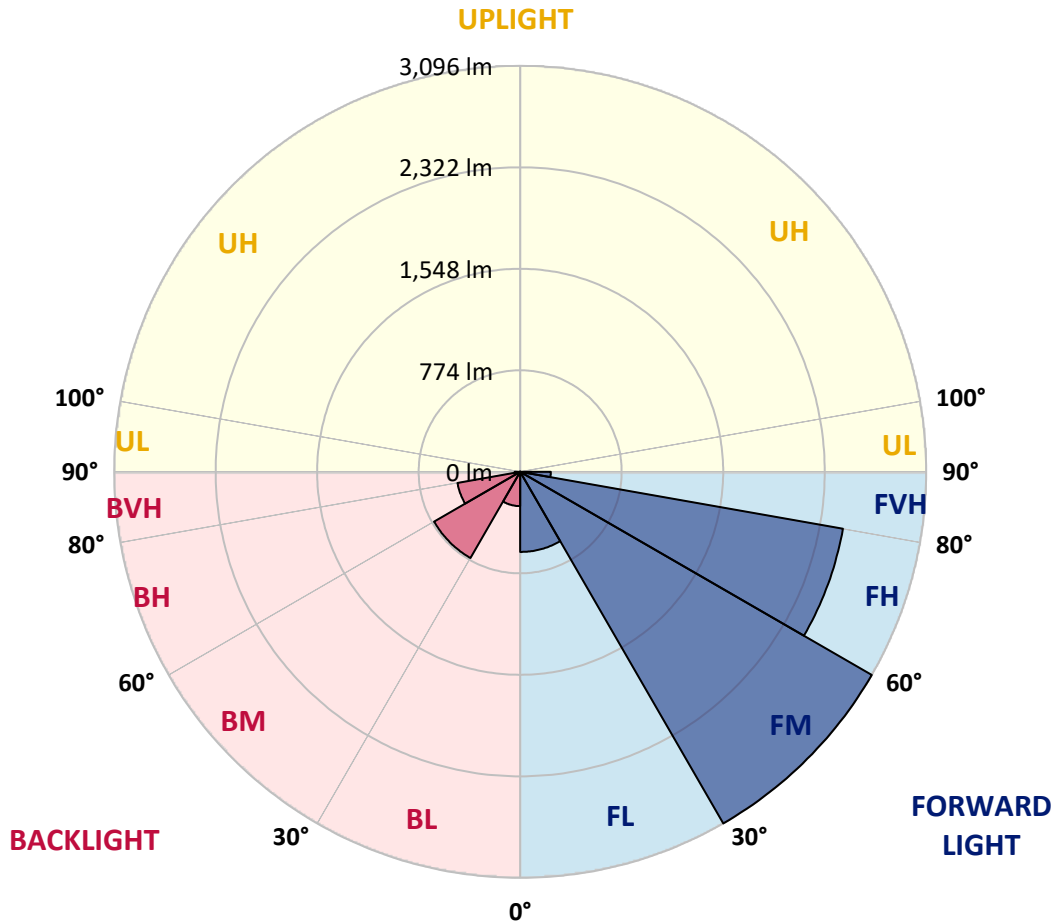
CATALOG NUMBER: MSA-SA3A-830-U-SLR

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.0	7.7			
FM (30°-60°)	3095.5	38.8			
FH (60°-80°)	2498.5	31.3			G2/5000
FVH (80°-90°)	233.5	2.9			G3/500
BL (0°-30°)	261.4	3.3	B1/500		
BM (30°-60°)	758.6	9.5	B1/1000		
BH (60°-80°)	485.3	6.1	B1/500		G1/500
BVH (80°-90°)	41.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P367778

CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	1127.9	1134.8	1141.4	1128.2	1115.1	1101.5	1088.3	1068.6	1048.4	1028.6	1008.5
5°	1354.6	1329.0	1303.0	1292.6	1282.5	1272.0	1261.6	1251.9	1242.2	1232.1	1222.4
7.5°	1425.5	1389.1	1352.3	1336.8	1321.3	1305.4	1289.9	1255.0	1220.1	1184.8	1149.9
10°	1347.6	1309.6	1271.3	1256.1	1240.6	1225.5	1210.0	1167.4	1125.1	1082.5	1039.9
12.5°	1410.4	1371.6	1332.5	1284.4	1236.4	1187.9	1139.9	1116.2	1092.6	1068.6	1044.9
15°	1470.9	1418.5	1365.8	1317.8	1269.7	1221.3	1173.2	1125.9	1078.6	1031.3	984.1
17.5°	1691.8	1604.6	1517.4	1430.6	1343.3	1256.5	1169.3	1114.7	1059.6	1005.0	950.0
20°	1961.2	1839.8	1718.1	1586.4	1454.2	1322.4	1190.3	1121.3	1052.7	983.7	914.7
22.5°	2281.7	2128.6	1975.5	1809.2	1642.9	1476.3	1310.0	1210.0	1110.0	1009.6	909.6
25°	2536.3	2389.0	2241.8	2030.9	1820.1	1609.2	1398.4	1284.8	1171.3	1057.3	943.8
27.5°	2783.6	2549.1	2314.2	2072.8	1831.7	1590.2	1348.8	1243.7	1138.7	1033.7	928.6
30°	2992.5	2806.5	2620.4	2305.3	1990.2	1674.7	1359.6	1230.6	1101.5	972.4	843.4
32.5°	3298.3	3032.8	2766.9	2438.3	2109.6	1780.9	1452.3	1287.2	1122.0	956.9	791.8
35°	3656.0	3380.1	3104.1	2697.6	2291.4	1884.8	1478.2	1303.4	1128.2	953.4	778.3
37.5°	4323.1	3836.6	3349.8	2906.1	2462.3	2018.1	1574.3	1371.3	1168.2	964.7	761.6
40°	4690.9	4241.3	3791.7	3238.6	2685.5	2132.1	1579.0	1371.3	1163.1	955.4	747.3
42.5°	5181.2	4612.6	4043.6	3445.6	2847.9	2249.9	1651.9	1421.6	1191.4	960.8	730.6
45°	5480.0	4846.3	4212.2	3573.1	2934.0	2294.9	1655.7	1422.0	1188.3	954.6	720.9
47.5°	5672.6	5064.1	4455.2	3767.3	3079.3	2391.0	1703.0	1455.0	1206.5	958.5	710.0
50°	5855.2	5252.5	4649.4	3935.1	3221.2	2506.9	1792.6	1521.6	1250.7	979.4	708.5
52.5°	6079.2	5524.2	4968.8	4202.5	3435.9	2669.6	1903.0	1608.1	1313.1	1018.2	723.2
55°	6405.1	5858.3	5311.0	4488.6	3665.7	2843.3	2020.4	1692.9	1365.8	1038.3	710.8
57.5°	6616.4	6061.7	5507.1	4668.4	3829.7	2990.6	2151.8	1789.1	1426.3	1063.1	700.4
60°	6546.2	5974.1	5401.7	4602.1	3802.5	3003.0	2203.4	1811.5	1420.1	1028.2	636.4
62.5°	6236.1	5628.0	5019.9	4303.7	3587.8	2871.6	2155.3	1756.9	1358.9	960.4	562.0
65°	5802.8	5174.2	4545.1	3899.0	3253.0	2606.9	1960.8	1599.2	1237.2	875.5	513.5
67.5°	5271.1	4615.7	3959.9	3387.8	2815.8	2243.3	1671.2	1368.9	1067.0	764.7	462.4
70°	4604.1	3959.9	3315.7	2820.8	2325.9	1830.9	1336.0	1108.5	881.4	653.8	426.3
72.5°	3700.6	3144.8	2589.0	2199.5	1810.0	1420.5	1031.0	872.8	715.1	557.0	398.8
75°	2632.0	2305.3	1978.6	1675.5	1372.4	1068.9	765.9	663.5	561.2	458.9	356.6
77.5°	1870.5	1677.8	1485.2	1247.6	1010.0	772.4	534.9	474.8	415.1	355.0	294.9
80°	1382.9	1222.0	1061.2	882.1	703.1	524.0	344.9	315.5	286.4	257.0	227.5
82.5°	910.4	837.9	765.1	623.2	481.4	339.5	197.7	186.8	176.0	165.1	154.3
85°	407.7	430.6	453.1	366.3	279.1	192.2	105.0	100.0	95.0	89.9	84.9
87.5°	39.1	57.7	76.4	65.5	54.3	43.4	32.2	31.8	31.8	31.4	31.0
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: P367778  
 CATALOG NUMBER: MSA-SA3A-830-U-SLR

**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: P367778

CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	1013.9	1019.3	1024.8	1030.2	1024.4	1018.6	1012.4	1006.5	999.2	991.8	984.1
5°	1206.1	1189.5	1173.2	1156.5	1131.7	1106.9	1081.7	1056.9	1053.8	1050.3	1047.2
7.5°	1119.3	1089.1	1058.5	1027.9	989.1	950.7	912.0	873.2	861.6	850.0	838.3
10°	1019.3	998.4	977.9	956.9	932.9	908.9	884.5	860.4	828.6	796.5	764.7
12.5°	1010.8	976.7	942.2	908.1	893.4	878.6	863.9	849.2	821.3	793.4	765.1
15°	956.5	928.6	901.1	873.2	851.9	830.6	809.3	787.9	765.5	742.6	720.1
17.5°	918.2	886.4	854.6	822.8	798.4	774.0	749.2	724.8	697.6	670.1	643.0
20°	878.3	842.2	805.8	769.3	738.3	707.7	676.7	645.7	615.9	586.4	556.6
22.5°	862.0	814.3	766.6	719.0	686.4	653.5	620.9	588.0	560.4	532.9	505.4
25°	886.8	830.2	773.2	716.2	672.4	628.3	584.5	540.3	517.4	494.6	471.3
27.5°	857.7	786.4	715.5	644.2	597.3	550.0	503.1	455.8	452.3	448.8	444.9
30°	768.6	693.8	619.0	544.2	501.1	457.7	414.7	371.3	363.2	354.6	346.5
32.5°	715.5	639.1	562.8	486.4	448.0	409.3	370.9	332.2	322.9	313.6	304.2
35°	695.3	612.4	529.4	446.5	413.5	380.6	347.7	314.7	308.1	301.9	295.3
37.5°	679.0	596.9	514.3	431.8	400.0	368.2	336.0	304.2	299.2	294.2	289.1
40°	663.5	580.2	496.5	412.8	384.5	356.6	328.3	300.0	296.9	293.8	290.3
42.5°	649.6	568.6	487.2	406.2	381.0	356.2	331.0	305.8	302.7	299.6	296.5
45°	641.8	562.8	483.7	404.6	386.4	368.2	349.6	331.4	324.0	316.7	308.9
47.5°	636.0	562.0	488.0	413.9	394.9	376.0	357.0	338.0	331.4	324.8	317.8
50°	637.2	566.3	494.9	423.6	400.8	377.5	354.6	331.4	330.6	329.8	329.1
52.5°	647.6	572.5	496.9	421.3	396.5	371.7	346.5	321.7	326.7	331.4	336.4
55°	632.5	554.2	475.6	397.3	373.6	350.4	326.7	303.1	309.7	315.9	322.5
57.5°	615.5	530.6	445.7	360.8	343.0	325.2	307.0	289.1	296.1	303.5	310.5
60°	558.9	481.4	403.9	326.3	314.3	302.3	290.3	278.3	281.4	284.5	287.6
62.5°	496.9	431.4	366.3	300.8	291.5	281.8	272.5	262.8	262.8	263.2	263.2
65°	457.3	401.1	344.9	288.7	278.3	267.8	257.0	246.5	244.9	243.4	241.8
67.5°	417.8	373.6	329.1	284.5	269.4	254.6	239.5	224.4	222.5	220.9	219.0
70°	386.8	347.3	307.7	268.2	251.2	234.5	217.4	200.4	198.8	197.7	196.1
72.5°	361.6	324.8	287.6	250.4	232.5	214.3	196.5	178.3	177.1	176.0	174.4
75°	323.6	291.1	258.1	225.2	207.7	190.7	173.2	155.8	154.3	153.1	151.5
77.5°	267.8	240.3	213.2	185.7	172.1	158.9	145.3	131.8	131.0	130.2	129.1
80°	206.2	184.9	163.2	141.9	132.9	123.6	114.7	105.4	105.0	104.6	103.9
82.5°	141.5	128.7	115.9	103.1	96.5	89.5	82.9	76.0	76.4	76.7	77.1
85°	80.6	76.0	71.7	67.1	61.6	56.6	51.2	45.7	46.9	48.1	48.8
87.5°	29.5	27.9	26.4	24.8	22.1	19.8	17.1	14.3	15.1	16.3	17.1
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: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778  
 CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	976.7	965.1	953.4	941.8	930.2	906.2	882.5	858.5	834.5	849.2	864.3
5°	1043.8	1024.0	1003.8	984.1	963.9	952.7	941.4	930.2	919.0	924.8	931.0
7.5°	826.7	815.1	803.1	791.4	779.4	774.4	769.7	764.7	759.7	774.0	788.3
10°	732.5	716.2	700.0	683.3	667.0	657.3	647.6	638.0	628.3	632.1	636.0
12.5°	737.2	713.1	689.1	665.1	641.1	626.7	612.4	598.0	583.7	587.2	590.7
15°	697.3	672.4	647.6	622.8	598.0	581.4	564.3	547.6	530.6	524.8	518.6
17.5°	615.5	588.3	561.2	534.1	507.0	495.7	484.5	473.2	462.0	455.8	449.6
20°	526.7	501.5	476.3	451.1	425.9	418.2	410.4	402.3	394.6	390.7	386.4
22.5°	477.9	462.4	446.5	431.0	415.1	406.2	397.7	388.7	379.8	375.6	370.9
25°	448.4	451.5	455.0	458.1	461.2	457.3	453.1	449.2	444.9	446.5	447.7
27.5°	441.5	448.0	455.0	461.6	468.2	471.7	475.2	478.7	482.1	483.3	484.5
30°	338.0	341.5	344.6	348.0	351.1	360.8	370.5	379.8	389.5	404.6	420.1
32.5°	294.9	293.8	292.6	291.1	289.9	292.2	294.6	296.5	298.8	304.2	310.1
35°	288.7	286.0	282.9	280.2	277.1	278.3	279.4	280.6	281.8	286.0	290.3
37.5°	284.1	282.9	282.2	281.0	279.8	282.5	284.9	287.6	289.9	293.4	296.9
40°	287.2	286.8	286.4	285.6	285.3	286.8	288.4	289.9	291.5	296.1	300.8
42.5°	293.4	293.4	293.0	293.0	292.6	294.2	295.3	296.9	298.0	300.8	303.5
45°	301.5	300.8	300.4	299.6	298.8	298.4	298.4	298.0	297.7	299.2	301.1
47.5°	311.2	308.5	305.4	302.7	299.6	298.8	297.7	296.9	295.7	296.5	297.3
50°	328.3	320.9	313.9	306.6	299.2	297.3	295.3	293.4	291.5	291.1	291.1
52.5°	341.1	330.2	319.4	308.5	297.7	294.2	290.7	287.2	283.7	282.9	282.5
55°	328.7	320.5	312.8	304.6	296.5	291.5	286.0	281.0	275.6	274.4	273.2
57.5°	317.4	312.4	307.4	302.3	297.3	292.2	286.8	281.8	276.3	273.6	270.9
60°	290.7	290.7	291.1	291.1	291.1	285.6	280.2	274.8	269.4	266.7	264.3
62.5°	263.2	267.4	271.3	275.6	279.4	272.1	264.3	257.0	249.2	247.3	245.7
65°	240.3	241.5	243.0	244.2	245.3	239.5	233.7	227.9	222.1	220.9	219.4
67.5°	217.0	216.7	216.3	215.5	215.1	211.6	207.7	204.3	200.4	198.8	197.3
70°	194.6	194.2	193.8	193.0	192.6	189.5	186.4	183.3	180.2	179.1	177.9
72.5°	173.2	172.9	172.1	171.7	170.9	168.2	165.9	163.2	160.5	158.9	157.4
75°	150.0	149.2	148.4	147.7	146.9	144.6	142.2	139.5	137.2	135.7	134.1
77.5°	128.3	127.1	126.0	124.4	123.3	121.3	119.0	117.0	114.7	112.8	111.2
80°	103.5	102.7	101.9	100.8	100.0	98.1	96.1	93.8	91.9	89.5	87.6
82.5°	77.5	77.1	76.4	76.0	75.2	73.3	71.3	69.4	67.4	65.1	62.8
85°	50.0	49.6	49.2	48.8	48.4	46.9	45.7	44.2	42.6	40.3	38.4
87.5°	17.8	17.1	16.7	15.9	15.1	14.7	14.0	13.6	12.8	11.6	10.5
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: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778

CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	879.0	893.8	894.1	894.1	901.1	907.7	894.1	880.6	866.6	853.1	839.5
5°	936.8	942.6	941.0	939.1	930.6	922.1	913.1	904.2	895.3	886.4	886.8
7.5°	802.7	817.0	828.6	839.9	829.0	818.2	812.4	806.6	800.7	794.9	794.1
10°	639.5	643.4	648.0	652.3	645.7	638.7	650.4	662.0	673.2	684.9	672.1
12.5°	594.2	597.6	589.5	581.0	578.3	575.6	572.8	569.7	567.0	563.9	562.4
15°	512.8	506.6	500.4	493.8	492.2	490.3	488.3	486.0	484.1	481.8	474.8
17.5°	443.4	437.2	426.7	415.9	411.6	407.0	405.8	404.6	403.1	401.9	395.3
20°	382.5	378.3	375.6	372.5	368.2	363.9	359.7	355.4	350.8	346.5	340.3
22.5°	366.6	362.0	358.5	354.6	353.9	353.1	345.3	337.2	329.4	321.3	317.8
25°	449.2	450.4	429.1	407.3	405.4	403.5	389.5	375.2	361.2	346.9	334.9
27.5°	485.2	486.4	485.6	484.9	478.7	472.1	448.4	424.4	400.8	376.7	359.7
30°	435.3	450.4	456.2	462.0	457.7	453.1	428.3	403.9	379.1	354.2	343.0
32.5°	315.5	320.9	330.6	339.9	344.9	349.6	341.8	334.1	326.3	318.6	316.7
35°	294.2	298.4	300.4	302.3	299.2	296.1	290.3	284.5	278.3	272.5	271.3
37.5°	300.0	303.5	307.4	311.2	302.7	293.8	287.2	281.0	274.4	267.8	262.4
40°	305.4	310.1	312.4	314.7	306.2	297.7	289.5	281.8	273.6	265.5	260.1
42.5°	306.2	308.9	313.2	317.4	305.4	293.0	285.6	277.9	270.5	262.8	257.4
45°	302.7	304.2	308.1	312.0	298.0	283.7	277.1	270.1	263.6	256.6	251.9
47.5°	297.7	298.4	301.5	304.2	289.5	274.4	268.2	262.0	255.4	249.2	244.6
50°	290.7	290.3	292.6	294.6	279.4	264.3	258.1	252.3	246.1	239.9	236.0
52.5°	281.8	281.0	283.3	285.3	269.4	253.5	248.1	243.0	237.6	232.2	229.1
55°	271.7	270.5	272.5	274.4	258.9	243.0	238.4	233.3	228.7	223.6	220.9
57.5°	267.8	265.1	266.3	267.4	250.0	232.5	227.9	223.2	218.6	213.9	212.0
60°	261.6	258.9	260.1	260.8	242.2	223.2	219.0	214.3	210.1	205.4	203.5
62.5°	243.8	241.8	243.4	244.9	228.3	211.2	207.4	203.9	200.0	196.1	193.4
65°	218.2	216.7	219.8	222.9	208.5	194.2	191.9	189.5	186.8	184.5	181.8
67.5°	195.7	194.2	197.3	200.4	189.9	179.4	177.1	174.8	172.5	170.1	168.6
70°	176.7	175.6	178.3	181.0	172.1	163.2	160.8	158.9	156.6	154.3	153.1
72.5°	155.4	153.9	157.4	160.5	153.1	145.3	143.4	141.1	139.1	136.8	136.0
75°	132.6	131.0	134.1	136.8	131.8	126.4	124.4	122.5	120.5	118.6	118.2
77.5°	109.3	107.4	110.5	113.2	110.1	106.6	105.0	103.1	101.5	99.6	99.6
80°	85.3	82.9	85.3	87.2	86.0	84.9	83.7	82.2	81.0	79.5	79.8
82.5°	60.5	58.1	59.3	60.5	61.2	62.0	62.0	62.0	62.0	62.0	62.0
85°	36.0	33.7	34.1	34.5	35.7	36.8	37.2	37.6	38.0	38.4	38.8
87.5°	9.3	8.1	7.4	6.2	7.4	8.1	8.9	9.3	10.1	10.5	10.5
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: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778  
 CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	825.9	812.0	798.4	806.9	815.1	823.6	831.7	832.1	832.1	832.5	832.5
5°	887.6	887.9	888.3	880.2	872.4	864.3	856.2	851.9	847.6	843.0	838.7
7.5°	793.0	792.2	791.0	783.3	775.5	767.8	760.0	741.4	722.4	703.8	684.9
10°	658.9	646.1	632.9	629.8	627.1	624.0	620.9	615.9	611.2	606.2	601.1
12.5°	560.8	559.3	557.7	549.6	541.4	532.9	524.8	524.8	524.8	524.8	524.8
15°	467.4	460.4	453.1	449.2	444.9	441.1	436.8	434.9	432.9	431.0	429.1
17.5°	388.4	381.8	374.8	374.0	373.2	372.5	371.7	369.8	367.8	365.9	363.9
20°	334.1	327.9	321.7	324.0	326.3	328.3	330.6	328.7	326.7	324.4	322.5
22.5°	313.9	310.5	306.6	304.6	302.7	300.4	298.4	298.4	298.8	298.8	298.8
25°	323.2	311.2	299.2	293.4	287.6	281.4	275.6	273.2	271.3	269.0	266.7
27.5°	342.6	325.2	308.1	298.0	288.0	277.9	267.8	263.6	258.9	254.6	250.0
30°	331.4	320.1	308.5	296.9	285.3	273.6	262.0	256.6	251.2	245.3	239.9
32.5°	314.7	312.4	310.5	299.6	288.7	277.5	266.7	264.3	262.4	260.1	257.7
35°	269.8	268.6	267.0	264.3	261.6	258.9	256.2	253.1	250.0	246.9	243.8
37.5°	257.4	251.9	246.5	245.3	244.2	243.0	241.8	240.7	239.5	238.0	236.8
40°	254.6	249.2	243.8	241.8	239.9	237.6	235.6	236.0	236.8	237.2	237.6
42.5°	251.5	246.1	240.3	238.7	237.2	235.6	234.1	234.5	235.3	235.6	236.0
45°	247.7	243.0	238.4	235.6	233.3	230.6	227.9	230.2	232.5	234.5	236.8
47.5°	239.9	234.9	230.2	228.7	227.1	225.2	223.6	226.0	228.3	230.2	232.5
50°	231.8	227.9	223.6	223.2	222.9	222.1	221.7	223.2	224.8	226.3	227.9
52.5°	225.6	222.5	219.0	219.0	218.6	218.6	218.2	219.8	221.3	222.5	224.0
55°	218.6	215.9	213.2	213.6	214.3	214.7	215.1	216.7	218.6	220.1	221.7
57.5°	209.7	207.7	205.4	207.0	208.1	209.7	210.8	212.0	213.6	214.7	215.9
60°	201.2	199.2	196.9	198.4	200.4	201.9	203.5	204.6	205.8	207.0	208.1
62.5°	190.7	187.6	184.9	187.2	189.1	191.5	193.4	194.2	195.3	196.1	196.9
65°	179.4	176.7	174.0	175.6	177.1	178.3	179.8	181.0	182.2	183.3	184.5
67.5°	166.7	165.1	163.2	164.3	165.5	166.7	167.8	168.2	168.2	168.6	168.6
70°	151.5	150.4	148.8	149.6	150.8	151.5	152.3	152.3	152.3	151.9	151.9
72.5°	135.7	134.9	134.1	134.5	135.3	135.7	136.0	135.7	135.3	134.9	134.5
75°	117.8	117.4	117.0	117.4	118.2	118.6	119.0	118.6	117.8	117.4	116.7
77.5°	100.0	100.0	100.0	100.0	100.4	100.4	100.4	99.6	98.8	98.1	97.3
80°	80.2	80.6	81.0	81.0	81.0	81.0	81.0	80.2	79.5	78.3	77.5
82.5°	62.0	62.0	62.0	62.0	62.4	62.4	62.4	60.5	58.9	57.0	55.0
85°	38.8	39.1	39.1	39.5	39.9	39.9	40.3	37.6	35.3	32.6	29.8
87.5°	10.5	10.5	10.5	10.5	10.5	10.1	10.1	7.8	5.0	2.7	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: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778

CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	834.8	837.2	839.1	841.4	841.8	842.2	842.2	842.6	834.5	826.3	817.8
5°	844.5	850.0	855.8	861.2	860.0	858.9	857.7	856.5	854.2	852.3	850.0
7.5°	680.6	676.7	672.4	668.2	671.7	675.2	678.7	682.1	683.7	685.2	686.4
10°	591.4	581.8	572.1	562.4	557.0	551.1	545.7	539.9	539.1	538.7	538.0
12.5°	514.7	504.2	494.2	483.7	480.6	477.1	474.0	470.5	473.6	476.7	479.4
15°	424.8	420.9	416.6	412.4	415.9	419.4	422.8	426.3	429.4	432.2	435.3
17.5°	362.0	360.4	358.5	356.6	359.7	363.2	366.3	369.4	376.3	383.3	390.3
20°	320.9	319.8	318.2	316.7	315.5	313.9	312.8	311.2	321.3	331.0	341.1
22.5°	296.5	294.2	291.8	289.5	289.9	290.3	290.3	290.7	298.8	307.4	315.5
25°	265.9	265.1	264.3	263.6	265.9	268.2	270.1	272.5	279.8	287.2	294.2
27.5°	250.4	250.8	251.2	251.5	254.6	258.1	261.2	264.3	269.4	274.4	279.4
30°	241.8	244.2	246.1	248.1	249.2	250.4	251.5	252.7	257.7	262.4	267.4
32.5°	254.6	251.5	248.1	244.9	246.5	248.4	250.0	251.5	256.2	260.8	265.5
35°	242.6	241.1	239.9	238.4	240.3	242.2	243.8	245.7	250.0	253.9	258.1
37.5°	236.4	236.0	235.6	235.3	236.4	237.6	238.4	239.5	243.4	247.3	250.8
40°	236.0	234.1	232.5	230.6	231.8	232.9	233.7	234.9	239.5	244.2	248.8
42.5°	233.7	231.4	228.7	226.3	227.5	229.1	230.2	231.4	236.4	241.1	246.1
45°	233.3	229.8	226.0	222.5	224.0	225.6	227.1	228.7	232.5	236.4	239.9
47.5°	229.1	225.6	222.1	218.6	219.4	220.1	220.5	221.3	224.8	227.9	231.4
50°	225.6	222.9	220.5	217.8	216.7	215.9	214.7	213.6	216.3	219.0	221.7
52.5°	221.3	218.6	215.5	212.8	211.2	209.7	208.1	206.6	208.9	210.8	213.2
55°	218.6	215.1	212.0	208.5	206.6	204.6	202.7	200.8	202.3	203.5	205.0
57.5°	212.8	209.7	206.2	203.1	200.8	198.4	195.7	193.4	194.2	195.0	195.7
60°	205.0	201.5	198.4	195.0	192.2	189.5	186.4	183.7	184.1	184.9	185.3
62.5°	193.8	190.7	187.2	184.1	181.0	178.3	175.2	172.1	172.9	173.2	174.0
65°	181.4	177.9	174.8	171.3	168.6	165.9	162.8	160.1	160.8	161.6	162.0
67.5°	166.3	163.6	161.2	158.5	156.2	153.5	151.2	148.4	148.8	149.2	149.6
70°	150.0	147.7	145.7	143.4	141.5	139.5	137.6	135.7	135.7	136.0	136.0
72.5°	132.6	130.6	128.7	126.7	124.8	123.3	121.3	119.4	120.1	120.9	121.3
75°	114.7	113.2	111.2	109.3	107.7	106.2	104.3	102.7	103.5	104.3	104.6
77.5°	96.1	95.0	93.4	92.2	90.7	89.1	87.2	85.7	86.4	87.2	87.6
80°	76.7	76.0	74.8	74.0	72.5	70.9	69.4	67.8	68.2	68.2	68.6
82.5°	55.4	55.8	55.8	56.2	55.0	53.5	52.3	50.8	50.8	50.8	50.4
85°	31.0	32.6	33.7	34.9	33.7	32.6	31.4	30.2	29.8	29.8	29.5
87.5°	1.2	1.9	3.1	3.9	3.5	3.1	2.3	1.9	2.3	2.7	2.7
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: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778  
 CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	809.7	816.2	822.8	829.4	836.0	846.1	856.2	866.6	877.1	871.3	865.1
5°	847.6	851.5	855.8	859.7	863.5	874.8	885.6	899.2	912.4	910.8	908.9
7.5°	688.0	693.4	698.8	703.8	709.3	726.3	743.4	757.7	772.1	770.1	767.8
10°	537.2	548.4	560.1	571.3	582.5	596.5	610.0	622.1	634.1	654.2	674.0
12.5°	482.5	500.0	517.4	534.9	552.3	562.4	572.1	587.6	603.1	613.9	625.2
15°	438.0	454.2	470.5	486.8	503.1	503.9	504.6	520.9	537.2	546.5	555.4
17.5°	397.3	406.2	415.1	423.6	432.5	429.4	426.3	434.1	441.5	445.3	449.6
20°	350.8	357.0	363.2	369.4	375.6	379.8	383.7	388.4	392.6	388.7	384.5
22.5°	323.6	332.9	342.6	351.9	361.2	363.9	366.3	363.5	360.8	359.7	358.5
25°	301.5	312.8	324.4	335.6	346.9	352.3	357.7	360.1	362.0	357.7	353.5
27.5°	284.5	298.0	311.2	324.8	338.0	347.7	357.3	360.1	362.4	359.3	355.8
30°	272.1	286.8	301.5	316.3	331.0	345.7	360.1	372.9	385.3	384.1	382.9
32.5°	270.1	280.2	290.3	300.4	310.5	319.8	328.7	329.4	329.8	326.7	323.2
35°	262.0	268.6	275.2	281.8	288.4	294.2	299.6	298.8	298.0	294.9	291.8
37.5°	254.6	261.2	268.2	274.8	281.4	291.5	301.1	299.2	296.9	293.8	290.7
40°	253.5	260.8	268.2	275.2	282.5	291.8	301.1	299.2	297.3	293.4	289.5
42.5°	250.8	258.1	265.1	272.5	279.4	290.7	301.5	298.0	294.2	291.1	288.0
45°	243.8	250.4	257.0	263.6	270.1	282.2	294.2	289.9	285.6	284.5	282.9
47.5°	234.5	241.1	247.7	254.3	260.8	272.9	284.5	281.0	277.1	276.7	276.0
50°	224.4	230.6	237.2	243.4	249.6	261.6	273.2	270.1	267.0	267.4	267.4
52.5°	215.1	220.9	226.3	232.2	237.6	249.6	261.2	258.9	256.2	257.0	257.4
55°	206.2	210.8	215.5	220.1	224.8	236.4	248.1	244.6	241.1	242.2	243.4
57.5°	196.5	200.4	204.3	207.7	211.6	223.2	234.5	230.6	226.3	228.3	229.8
60°	185.7	189.1	192.6	195.7	199.2	209.7	219.8	216.3	212.4	215.1	217.4
62.5°	174.4	177.1	179.8	182.5	185.3	195.0	204.6	201.9	199.2	202.3	205.0
65°	162.8	164.7	167.0	169.0	170.9	180.2	189.1	187.2	185.3	188.0	190.7
67.5°	150.0	151.5	153.5	155.0	156.6	165.1	173.6	171.7	169.4	171.7	173.6
70°	136.0	137.6	138.8	140.3	141.5	149.2	157.0	154.3	151.2	153.5	155.4
72.5°	122.1	122.9	124.0	124.8	125.6	131.4	137.2	134.9	132.6	134.9	136.8
75°	105.4	106.2	107.0	107.7	108.5	113.6	118.2	115.5	112.4	114.7	117.0
77.5°	88.4	88.8	89.5	89.9	90.3	93.8	96.9	94.2	91.1	93.8	96.5
80°	68.6	69.0	69.4	69.4	69.8	70.9	72.1	70.2	67.8	71.3	74.8
82.5°	50.4	50.0	50.0	49.6	49.2	49.2	48.8	47.7	46.1	49.2	52.3
85°	29.1	28.7	27.9	27.5	26.7	25.6	24.4	24.0	23.6	26.4	29.1
87.5°	3.1	2.7	1.9	1.6	0.8	0.4	0.0	0.0	0.0	1.6	3.5
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: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778  
 CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	859.3	853.1	847.2	841.4	835.6	829.8	840.7	851.5	862.4	873.2	882.9
5°	907.3	905.4	900.3	895.7	890.7	885.6	888.3	891.4	894.1	896.9	902.7
7.5°	765.9	763.5	774.4	784.8	795.7	806.2	808.9	811.2	813.9	816.2	814.7
10°	694.2	713.9	719.0	723.6	728.6	733.3	741.1	748.8	756.2	763.9	768.2
12.5°	636.0	646.9	664.7	682.9	700.7	718.6	730.2	741.8	753.5	765.1	789.1
15°	564.7	573.6	587.2	600.7	614.3	627.9	644.5	661.6	678.3	694.9	721.3
17.5°	453.5	457.3	467.4	477.5	487.2	497.3	519.7	541.8	564.3	586.4	616.6
20°	380.6	376.3	376.3	376.7	376.7	376.7	399.2	421.3	443.8	465.9	505.8
22.5°	357.0	355.8	351.5	346.9	342.6	338.0	349.6	361.6	373.2	384.9	417.4
25°	348.8	344.6	339.1	333.7	328.3	322.9	330.2	337.6	344.9	352.3	377.9
27.5°	352.7	349.2	351.9	354.2	357.0	359.3	361.6	363.9	366.3	368.6	377.5
30°	381.8	380.6	384.9	388.7	393.0	396.9	391.5	386.4	381.0	375.6	378.7
32.5°	320.1	316.7	315.1	313.6	312.0	310.5	310.1	309.7	308.9	308.5	315.5
35°	288.7	285.6	283.3	281.0	278.3	276.0	277.1	277.9	279.1	279.8	287.6
37.5°	287.6	284.5	281.8	279.1	276.0	273.2	274.4	276.0	277.1	278.3	284.1
40°	285.6	281.8	280.2	278.7	277.1	275.6	276.3	277.1	277.5	278.3	282.5
42.5°	284.5	281.4	280.6	279.8	279.1	278.3	279.1	279.8	280.2	281.0	286.0
45°	281.8	280.2	281.0	281.8	282.5	283.3	283.3	283.3	283.3	283.3	288.7
47.5°	275.6	274.8	277.1	279.4	281.8	284.1	288.0	291.8	295.3	299.2	300.4
50°	267.8	267.8	271.7	275.6	279.1	282.9	292.2	301.1	310.5	319.4	313.6
52.5°	258.1	258.5	264.3	269.8	275.6	281.0	289.5	298.0	306.2	314.7	306.2
55°	244.2	245.3	252.7	259.7	267.0	274.0	280.6	287.2	293.8	300.4	291.5
57.5°	231.8	233.3	241.1	248.4	256.2	263.6	267.4	271.7	275.6	279.4	273.6
60°	220.1	222.5	232.5	242.6	252.3	262.4	259.3	256.2	252.7	249.6	249.2
62.5°	208.1	210.8	220.1	229.4	238.4	247.7	243.0	238.4	233.3	228.7	230.6
65°	193.0	195.7	200.0	204.3	208.1	212.4	212.0	212.0	211.6	211.2	215.1
67.5°	176.0	177.9	180.6	182.9	185.7	188.0	189.5	191.5	193.0	194.6	199.2
70°	157.7	159.7	162.4	164.7	167.4	169.8	171.7	173.6	175.2	177.1	181.8
72.5°	139.1	141.1	143.8	146.5	148.8	151.5	153.1	154.6	155.8	157.4	161.2
75°	119.4	121.7	124.4	126.7	129.5	131.8	132.9	134.1	135.3	136.4	139.9
77.5°	99.2	101.9	104.6	107.4	110.1	112.8	113.2	113.6	113.9	114.3	117.4
80°	77.9	81.4	84.1	86.8	89.5	92.2	92.2	92.2	92.2	92.2	93.8
82.5°	55.4	58.5	61.6	64.3	67.4	70.2	70.2	69.8	69.8	69.4	69.4
85°	31.8	34.5	36.4	38.8	40.7	42.6	42.6	42.6	42.2	42.2	41.5
87.5°	5.0	6.6	7.4	8.5	9.3	10.1	9.7	9.7	9.3	8.9	7.8
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: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778

CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	892.6	902.3	912.0	910.4	908.9	907.3	905.8	911.6	917.0	922.8	928.3
5°	908.1	913.9	919.3	923.6	927.9	932.1	936.4	956.2	975.5	995.3	1014.7
7.5°	813.1	811.2	809.7	827.9	846.5	864.7	882.9	908.1	933.3	958.5	983.7
10°	772.4	776.7	781.0	788.3	796.1	803.5	810.8	835.6	860.4	885.2	910.0
12.5°	812.8	836.8	860.4	866.2	872.4	878.3	884.1	889.1	894.1	898.8	903.8
15°	747.6	774.0	800.4	815.5	830.6	845.3	860.4	898.4	936.0	974.0	1011.6
17.5°	646.5	676.7	706.6	743.8	781.0	818.2	855.4	890.3	925.2	959.6	994.5
20°	545.7	585.2	625.2	665.9	706.2	746.9	787.2	821.3	855.4	889.1	923.2
22.5°	449.6	482.1	514.3	563.9	613.2	662.8	712.0	775.5	838.7	902.3	965.5
25°	403.1	428.7	453.9	505.0	556.2	606.9	658.1	740.7	822.8	905.4	987.6
27.5°	386.8	395.7	404.6	451.1	497.3	543.8	589.9	679.0	768.2	856.9	946.1
30°	381.8	384.9	388.0	424.4	460.8	497.3	533.7	621.7	710.0	798.0	886.0
32.5°	322.1	329.1	335.6	371.3	406.6	442.2	477.5	566.3	654.6	743.4	831.7
35°	295.3	303.1	310.8	345.7	380.6	415.1	450.0	543.4	637.2	730.6	824.0
37.5°	289.9	295.7	301.5	341.1	380.6	420.1	459.7	554.2	648.8	743.4	837.9
40°	287.2	291.5	295.7	334.1	372.9	411.2	449.6	548.8	647.6	746.9	845.7
42.5°	290.7	295.7	300.4	335.3	369.8	404.6	439.1	541.8	644.2	746.9	849.2
45°	293.8	299.2	304.2	336.8	369.4	401.9	434.5	544.2	653.5	763.1	872.4
47.5°	301.1	302.3	303.1	331.4	359.3	387.6	415.5	527.1	638.7	750.0	861.6
50°	307.4	301.5	295.3	324.8	353.9	383.3	412.4	518.2	624.0	729.4	835.2
52.5°	297.7	288.7	280.2	312.0	343.8	375.2	407.0	512.8	619.0	724.8	830.6
55°	282.9	274.0	265.1	297.3	329.4	361.6	393.8	499.2	605.0	710.4	815.9
57.5°	268.2	262.4	256.6	282.9	309.7	336.0	362.4	476.7	590.7	705.0	819.0
60°	248.8	248.1	247.7	268.2	289.1	309.7	330.2	442.2	553.9	665.9	777.5
62.5°	232.2	234.1	235.6	252.3	269.0	285.3	301.9	410.1	518.6	626.7	734.8
65°	219.4	223.2	227.1	246.1	265.1	283.7	302.7	393.4	484.1	574.8	665.5
67.5°	203.9	208.5	213.2	238.0	262.8	287.6	312.4	387.2	462.0	536.8	611.6
70°	186.0	190.7	195.0	226.7	258.1	289.9	321.3	387.6	454.2	520.5	586.8
72.5°	165.1	169.0	172.9	207.0	241.1	275.2	309.3	365.5	421.7	477.5	533.7
75°	143.8	147.3	150.8	180.2	209.7	239.1	268.6	312.0	355.0	398.4	441.5
77.5°	120.1	123.3	126.0	145.7	165.5	185.3	205.0	238.4	271.3	304.6	337.6
80°	95.3	96.9	98.4	110.1	121.3	132.9	144.2	166.3	188.4	210.1	232.2
82.5°	69.8	69.8	69.8	77.1	84.9	92.2	99.6	110.8	121.7	132.9	143.8
85°	40.7	39.5	38.8	43.8	48.8	53.9	58.9	63.6	68.2	72.9	77.5
87.5°	6.6	5.0	3.9	7.0	10.1	13.2	16.3	17.8	19.8	21.3	22.9
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: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778

CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	915.1	902.3	889.1	875.9	895.3	914.7	934.1	953.4	1005.0	1035.6	1037.5
5°	1031.0	1047.2	1063.5	1079.8	1096.1	1112.4	1128.2	1144.5	1228.2	1279.8	1289.5
7.5°	1010.4	1037.5	1064.3	1091.0	1137.2	1183.3	1229.4	1275.5	1346.4	1397.6	1431.3
10°	943.4	976.7	1010.0	1043.4	1098.0	1153.0	1207.7	1262.3	1337.5	1405.0	1437.1
12.5°	956.9	1010.0	1062.7	1115.8	1163.1	1210.8	1258.1	1305.4	1357.3	1382.9	1441.4
15°	1048.4	1085.2	1122.0	1158.9	1230.2	1301.1	1372.4	1443.3	1472.8	1531.3	1584.0
17.5°	1062.4	1129.8	1197.6	1265.1	1352.3	1439.5	1526.7	1613.9	1668.5	1744.1	1807.7
20°	1018.9	1114.3	1210.0	1305.4	1417.8	1530.5	1642.9	1755.3	1824.7	1888.3	1986.7
22.5°	1070.9	1176.3	1281.3	1386.8	1536.0	1684.8	1834.0	1982.9	2127.8	2269.7	2336.3
25°	1128.2	1269.3	1410.0	1550.7	1737.1	1923.2	2109.6	2295.6	2482.1	2615.0	2691.7
27.5°	1087.9	1229.4	1371.3	1512.7	1743.3	1974.3	2204.9	2435.5	2635.2	2795.2	2861.1
30°	1059.6	1233.3	1406.9	1580.5	1851.1	2121.6	2392.1	2662.7	2847.2	3025.8	3122.7
32.5°	1054.6	1277.5	1499.9	1722.8	2037.9	2352.6	2667.7	2982.4	3104.9	3263.4	3394.0
35°	1068.6	1313.5	1558.1	1802.6	2163.9	2525.1	2885.9	3247.1	3421.2	3578.1	3692.5
37.5°	1111.2	1384.4	1657.3	1930.5	2365.8	2801.4	3236.7	3671.9	3963.8	4251.0	4302.1
40°	1135.2	1425.1	1714.6	2004.2	2510.3	3016.5	3522.7	4028.9	4364.5	4679.6	4700.9
42.5°	1163.5	1477.8	1791.8	2106.1	2667.3	3228.9	3790.1	4351.4	4766.8	5105.6	5115.7
45°	1196.1	1519.3	1842.9	2166.2	2752.2	3337.8	3923.9	4509.5	5011.8	5423.4	5323.0
47.5°	1208.9	1556.5	1903.8	2251.1	2875.8	3500.2	4125.0	4749.4	5200.1	5574.6	5478.4
50°	1213.9	1593.0	1971.6	2350.3	2997.5	3645.2	4292.4	4939.7	5398.2	5763.3	5616.0
52.5°	1245.3	1660.0	2074.7	2489.4	3163.8	3838.2	4512.6	5187.0	5638.1	5988.9	5805.9
55°	1287.5	1759.2	2230.5	2702.2	3400.2	4097.9	4795.9	5493.5	5946.2	6272.6	6045.8
57.5°	1326.7	1834.8	2342.5	2850.3	3573.5	4297.1	5020.3	5743.5	6202.0	6524.9	6305.1
60°	1307.7	1837.9	2368.1	2898.3	3609.1	4319.6	5030.4	5740.8	6261.3	6648.5	6536.1
62.5°	1250.3	1765.8	2280.9	2796.4	3471.2	4145.5	4820.3	5494.7	6104.0	6600.5	6595.4
65°	1139.9	1614.3	2088.3	2562.7	3187.1	3811.8	4436.2	5060.6	5778.8	6381.9	6421.0
67.5°	1005.4	1399.2	1792.9	2186.7	2774.7	3362.6	3950.6	4538.6	5306.3	5971.8	6005.5
70°	875.2	1163.9	1452.3	1740.6	2256.9	2773.1	3289.0	3805.3	4580.8	5254.0	5285.0
72.5°	722.4	911.2	1099.6	1288.3	1706.5	2124.7	2542.5	2960.7	3641.7	4159.5	4334.3
75°	553.5	665.5	777.5	889.5	1227.9	1566.2	1904.2	2242.5	2695.2	3077.4	3274.3
77.5°	395.7	453.9	512.0	570.1	857.7	1145.3	1432.5	1720.1	1958.0	2174.7	2307.6
80°	259.7	286.8	314.3	341.5	580.6	819.7	1058.5	1297.6	1442.6	1558.8	1625.9
82.5°	157.4	170.9	184.1	197.7	391.5	585.2	778.6	972.4	1055.4	1110.8	1170.5
85°	84.9	92.2	99.6	107.0	231.4	355.4	479.8	603.8	612.0	618.6	707.3
87.5°	24.8	27.1	29.1	31.0	51.2	71.7	91.9	112.0	69.8	43.4	89.1
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: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778

CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	1026.3	1021.3	1016.2	1010.8	1005.8	984.5	963.5	942.2	920.9	941.4	961.6
5°	1278.2	1293.7	1308.9	1324.4	1339.9	1341.0	1341.8	1343.0	1343.7	1347.6	1351.5
7.5°	1459.6	1487.1	1514.3	1541.8	1569.3	1590.6	1611.9	1633.6	1655.0	1635.6	1616.2
10°	1475.1	1533.3	1591.4	1649.5	1707.7	1718.1	1728.2	1738.7	1749.1	1763.1	1776.7
12.5°	1490.6	1561.6	1632.1	1703.0	1773.9	1805.0	1835.6	1866.6	1897.2	1912.3	1927.0
15°	1654.6	1696.4	1737.9	1779.8	1821.2	1842.6	1863.5	1884.8	1906.1	1918.9	1931.3
17.5°	1865.4	1880.9	1896.0	1911.5	1927.0	1941.4	1955.7	1970.1	1984.4	1986.7	1989.1
20°	2057.7	2060.8	2063.5	2066.6	2069.3	2039.1	2009.2	1979.0	1948.7	1954.2	1959.2
22.5°	2346.0	2329.0	2312.3	2295.2	2278.6	2221.6	2165.0	2108.0	2051.5	2027.0	2003.0
25°	2780.1	2736.7	2693.3	2649.9	2606.5	2515.8	2425.5	2334.8	2244.5	2191.4	2138.7
27.5°	2920.0	2825.5	2731.3	2636.7	2542.1	2473.5	2405.3	2336.7	2268.5	2184.4	2100.3
30°	3203.0	3053.7	2904.9	2755.7	2606.5	2540.2	2473.9	2407.3	2341.0	2254.9	2169.3
32.5°	3453.7	3298.7	3143.7	2988.2	2833.2	2707.6	2582.1	2456.5	2330.9	2272.8	2214.6
35°	3744.0	3549.1	3354.1	3159.2	2964.2	2856.5	2749.1	2641.4	2534.0	2446.0	2358.4
37.5°	4166.9	3959.5	3752.2	3544.4	3337.1	3191.3	3046.0	2900.3	2754.9	2706.5	2658.4
40°	4569.9	4325.0	4080.4	3835.5	3590.9	3479.3	3367.7	3255.7	3144.0	3062.3	2980.5
42.5°	4907.5	4665.3	4423.4	4181.2	3939.4	3858.0	3777.0	3695.6	3614.6	3547.1	3479.7
45°	5023.4	4825.7	4628.5	4430.8	4233.1	4204.5	4176.2	4147.5	4119.2	4069.2	4019.2
47.5°	5209.8	5008.3	4807.1	4605.6	4404.1	4414.5	4425.0	4435.8	4446.3	4449.0	4451.3
50°	5319.5	5128.1	4937.0	4745.5	4554.4	4605.2	4655.6	4706.4	4757.1	4872.3	4987.0
52.5°	5479.6	5291.6	5104.0	4916.1	4728.1	4814.1	4899.8	4985.8	5071.5	5232.7	5393.9
55°	5680.4	5500.5	5321.1	5141.2	4961.8	5045.5	5128.8	5212.6	5295.9	5475.3	5654.8
57.5°	5946.6	5754.0	5561.8	5369.1	5176.9	5254.0	5330.8	5407.9	5484.6	5655.2	5825.7
60°	6249.7	6040.4	5831.1	5621.4	5412.2	5433.5	5454.4	5475.7	5496.6	5681.5	5866.0
62.5°	6398.5	6204.8	6011.4	5817.6	5623.8	5564.5	5505.2	5445.5	5386.2	5551.7	5716.8
65°	6269.5	6136.2	6003.2	5869.9	5736.6	5631.9	5527.7	5423.0	5318.4	5421.8	5524.9
67.5°	5858.6	5783.1	5707.9	5632.3	5556.7	5381.1	5205.6	5029.6	4854.0	4861.0	4867.6
70°	5192.8	5172.6	5152.9	5132.7	5112.6	4848.6	4585.1	4321.1	4057.2	4016.9	3976.6
72.5°	4349.0	4362.2	4375.0	4388.2	4401.3	4117.6	3833.9	3550.2	3266.5	3199.5	3132.4
75°	3368.4	3441.3	3514.2	3587.4	3660.3	3389.0	3117.7	2846.0	2574.7	2492.1	2409.6
77.5°	2380.1	2516.2	2651.8	2787.9	2923.9	2678.6	2433.6	2188.3	1942.9	1889.4	1836.0
80°	1659.6	1726.3	1792.9	1859.6	1926.3	1803.0	1679.8	1556.5	1433.3	1448.0	1462.3
82.5°	1208.9	1224.4	1239.5	1255.0	1270.5	1220.1	1169.7	1118.9	1068.6	1106.9	1145.3
85°	774.4	829.8	884.8	940.3	995.3	939.5	883.7	827.5	771.7	797.3	822.8
87.5°	173.2	274.0	374.8	475.9	576.7	522.5	468.6	414.3	360.1	335.6	311.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778

CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	982.1	1002.7	996.5	990.7	984.5	978.2	989.5	1000.7	1012.4	1023.6	1019.7
5°	1355.8	1359.6	1322.8	1286.4	1249.6	1212.7	1235.6	1258.5	1281.3	1304.2	1296.1
7.5°	1596.8	1577.4	1556.1	1534.8	1513.1	1491.8	1487.1	1482.5	1477.5	1472.8	1466.6
10°	1790.6	1804.2	1790.2	1776.7	1762.7	1748.8	1716.2	1683.6	1650.7	1618.1	1604.6
12.5°	1942.2	1957.3	1960.8	1963.9	1967.4	1970.8	1934.4	1898.4	1861.9	1825.5	1792.6
15°	1944.1	1956.9	1968.1	1979.0	1990.2	2001.1	1978.6	1956.5	1934.0	1911.5	1901.1
17.5°	1991.8	1994.1	1984.8	1975.9	1966.6	1957.7	1948.7	1940.2	1931.3	1922.8	1906.1
20°	1964.6	1970.1	1968.9	1967.7	1966.2	1965.0	1965.8	1966.2	1967.0	1967.4	1958.0
22.5°	1978.6	1954.2	1959.2	1963.9	1968.9	1973.6	1987.5	2001.5	2015.8	2029.8	2067.0
25°	2085.6	2032.5	2024.3	2016.6	2008.4	2000.7	2037.1	2073.2	2109.6	2146.0	2206.5
27.5°	2015.8	1931.7	1913.1	1894.5	1875.9	1857.3	1912.7	1967.7	2023.2	2078.6	2140.2
30°	2083.2	1997.6	1956.5	1915.4	1873.9	1832.9	1886.0	1938.7	1991.8	2044.5	2112.7
32.5°	2156.5	2098.4	2070.8	2043.7	2016.2	1989.1	1993.3	1997.6	2001.8	2006.1	2102.2
35°	2270.4	2182.5	2155.3	2128.2	2101.1	2073.9	2119.3	2164.2	2209.6	2254.5	2335.9
37.5°	2610.0	2561.5	2512.7	2463.8	2414.6	2365.8	2392.5	2419.3	2446.0	2472.8	2549.5
40°	2898.7	2816.9	2808.8	2801.0	2792.9	2784.8	2787.1	2789.0	2791.3	2793.7	2859.2
42.5°	3411.9	3344.4	3302.9	3261.5	3220.0	3178.5	3175.8	3173.1	3170.0	3167.3	3216.5
45°	3968.8	3918.8	3887.8	3856.8	3825.4	3794.4	3745.2	3696.0	3646.3	3597.1	3640.1
47.5°	4454.1	4456.8	4513.0	4568.8	4625.0	4681.2	4597.1	4513.0	4428.9	4344.8	4289.3
50°	5102.1	5216.8	5230.4	5243.6	5257.1	5270.7	5128.1	4985.8	4843.2	4700.6	4642.4
52.5°	5555.6	5716.8	5695.9	5675.3	5654.4	5633.5	5550.9	5468.7	5386.2	5303.6	5176.9
55°	5834.6	6014.1	5998.2	5982.7	5966.8	5950.9	5890.8	5830.7	5770.7	5710.6	5571.4
57.5°	5996.2	6166.8	6171.4	6176.1	6180.7	6185.4	6169.5	6153.6	6137.7	6121.8	5940.8
60°	6050.9	6235.8	6237.7	6239.2	6241.2	6242.7	6217.5	6192.4	6166.8	6141.6	6023.4
62.5°	5882.3	6047.4	6054.8	6061.7	6069.1	6076.5	6059.0	6041.6	6024.1	6006.7	5919.1
65°	5628.4	5731.9	5733.8	5735.4	5737.3	5739.3	5695.1	5651.3	5607.1	5562.9	5542.0
67.5°	4874.6	4881.6	4922.6	4963.7	5004.8	5045.9	5049.4	5052.9	5056.7	5060.2	5030.0
70°	3936.3	3895.9	3940.5	3985.1	4029.7	4074.2	4093.2	4112.2	4131.6	4150.6	4164.5
72.5°	3065.0	2997.9	3030.9	3063.8	3097.1	3130.1	3101.8	3073.5	3045.2	3016.9	3106.4
75°	2327.0	2244.5	2240.2	2236.3	2232.1	2228.2	2213.9	2199.5	2184.8	2170.4	2254.2
77.5°	1782.1	1728.6	1731.3	1733.6	1736.4	1738.7	1724.0	1709.6	1694.9	1680.2	1712.3
80°	1477.1	1491.4	1491.8	1492.2	1492.6	1493.0	1479.0	1465.4	1451.5	1437.5	1414.3
82.5°	1184.1	1222.4	1222.0	1222.0	1221.6	1221.3	1220.5	1219.7	1218.5	1217.8	1179.8
85°	848.4	874.0	847.6	821.3	794.9	768.6	787.9	807.3	827.1	846.5	830.6
87.5°	287.2	263.2	231.8	200.8	169.4	138.0	171.7	205.4	239.5	273.2	292.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778

CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	1016.2	1012.4	1008.9	984.5	959.6	935.2	910.4	955.4	1000.7	1045.7	1090.6
5°	1288.3	1280.2	1272.4	1270.5	1268.5	1266.2	1264.3	1287.2	1310.0	1332.5	1355.4
7.5°	1460.4	1454.2	1448.0	1431.7	1415.8	1399.5	1383.3	1397.2	1410.8	1424.7	1438.3
10°	1591.4	1577.8	1564.3	1529.0	1494.1	1458.8	1423.6	1413.1	1402.6	1392.2	1381.7
12.5°	1759.6	1726.3	1693.3	1653.4	1613.1	1573.2	1532.9	1527.4	1522.0	1517.0	1511.6
15°	1891.0	1880.5	1870.1	1838.3	1806.5	1774.7	1742.9	1700.3	1657.3	1614.7	1572.0
17.5°	1889.8	1873.2	1856.9	1899.5	1941.8	1984.4	2026.7	1981.3	1935.6	1890.2	1844.9
20°	1948.7	1939.1	1929.8	2008.4	2086.7	2165.4	2243.7	2218.9	2193.7	2168.9	2143.7
22.5°	2103.8	2141.0	2177.8	2245.2	2312.3	2379.7	2446.8	2475.1	2503.4	2531.7	2560.0
25°	2266.6	2327.0	2387.5	2487.9	2587.9	2688.2	2788.6	2808.8	2828.9	2849.1	2869.2
27.5°	2201.4	2263.1	2324.7	2400.7	2476.2	2552.2	2627.8	2716.2	2804.9	2893.3	2981.6
30°	2180.5	2248.7	2316.6	2420.8	2524.7	2628.9	2733.2	2854.9	2976.6	3097.9	3219.6
32.5°	2198.0	2294.1	2390.2	2531.3	2672.0	2813.0	2954.1	3082.0	3210.3	3338.2	3466.1
35°	2416.9	2498.3	2579.3	2737.1	2894.8	3052.6	3210.3	3360.3	3510.3	3659.9	3809.9
37.5°	2625.8	2702.6	2779.3	2940.6	3101.4	3262.6	3423.9	3660.7	3897.9	4134.7	4371.5
40°	2924.3	2989.8	3054.9	3192.9	3330.9	3468.8	3606.8	3892.5	4178.1	4463.7	4749.4
42.5°	3265.4	3314.6	3363.4	3506.4	3649.4	3792.5	3935.5	4246.3	4557.5	4868.4	5179.2
45°	3682.8	3725.8	3768.8	3867.3	3965.7	4064.5	4163.0	4483.5	4804.0	5124.6	5445.1
47.5°	4233.9	4178.5	4123.1	4171.5	4220.0	4268.4	4316.9	4633.9	4950.9	5267.6	5584.6
50°	4584.3	4526.1	4468.0	4472.3	4476.2	4480.4	4484.7	4780.4	5076.1	5371.5	5667.2
52.5°	5050.2	4923.0	4796.3	4795.1	4794.0	4792.4	4791.3	5049.0	5307.1	5564.9	5822.6
55°	5432.3	5293.2	5154.0	5126.9	5099.8	5072.2	5045.1	5300.1	5554.8	5809.8	6064.5
57.5°	5759.8	5578.4	5397.4	5354.8	5312.2	5269.5	5226.9	5501.7	5776.9	6051.7	6326.5
60°	5905.5	5787.3	5669.5	5617.2	5564.9	5512.5	5460.2	5694.3	5928.4	6162.1	6396.2
62.5°	5831.9	5744.3	5657.1	5669.1	5681.1	5693.1	5705.2	5838.9	5973.0	6106.7	6240.4
65°	5521.5	5500.5	5480.0	5576.9	5673.8	5770.7	5867.6	5869.5	5871.4	5873.4	5875.3
67.5°	4999.8	4969.5	4939.3	5140.8	5342.0	5543.5	5745.1	5649.4	5553.6	5458.3	5362.5
70°	4178.1	4192.1	4205.6	4480.0	4754.0	5028.5	5302.9	5164.1	5025.0	4886.2	4747.1
72.5°	3196.0	3285.9	3375.4	3659.9	3944.4	4228.9	4513.4	4354.8	4195.9	4037.4	3878.5
75°	2337.9	2421.6	2505.3	2786.3	3067.3	3348.7	3629.7	3441.3	3253.0	3065.0	2876.6
77.5°	1744.5	1777.1	1809.2	2042.9	2276.3	2510.0	2743.3	2554.1	2365.0	2176.3	1987.1
80°	1391.4	1368.2	1345.3	1474.7	1604.2	1733.6	1863.1	1729.0	1594.5	1460.4	1326.3
82.5°	1142.2	1104.2	1066.6	1114.7	1162.7	1211.2	1259.2	1151.9	1044.5	937.2	829.8
85°	814.7	798.8	782.9	796.9	810.4	824.4	838.3	733.7	629.0	524.8	420.1
87.5°	311.6	331.0	350.4	372.5	394.2	416.3	438.0	343.0	248.1	153.5	58.5
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: P367778  
 CATALOG NUMBER: MSA-SA3A-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: P367778  
 CATALOG NUMBER: MSA-SA3A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	842.2	842.2
2.5°	1109.3	1127.9
5°	1355.0	1354.6
7.5°	1432.1	1425.5
10°	1364.7	1347.6
12.5°	1461.2	1410.4
15°	1521.6	1470.9
17.5°	1768.5	1691.8
20°	2052.6	1961.2
22.5°	2420.8	2281.7
25°	2703.0	2536.3
27.5°	2882.8	2783.6
30°	3106.1	2992.5
32.5°	3382.4	3298.3
35°	3733.2	3656.0
37.5°	4347.5	4323.1
40°	4720.3	4690.9
42.5°	5180.4	5181.2
45°	5462.5	5480.0
47.5°	5628.8	5672.6
50°	5761.4	5855.2
52.5°	5950.9	6079.2
55°	6235.0	6405.1
57.5°	6471.4	6616.4
60°	6471.4	6546.2
62.5°	6238.5	6236.1
65°	5839.3	5802.8
67.5°	5316.8	5271.1
70°	4675.8	4604.1
72.5°	3789.7	3700.6
75°	2754.5	2632.0
77.5°	1929.0	1870.5
80°	1354.6	1382.9
82.5°	870.1	910.4
85°	413.9	407.7
87.5°	48.8	39.1
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: P367778  
CATALOG NUMBER: MSA-SA3A-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)