

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: P366722

Luminaire Tested: **MSA-SA1A-830-U-SLR**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366722  
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-SA1A-830-U-SLR  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) 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: 2751 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

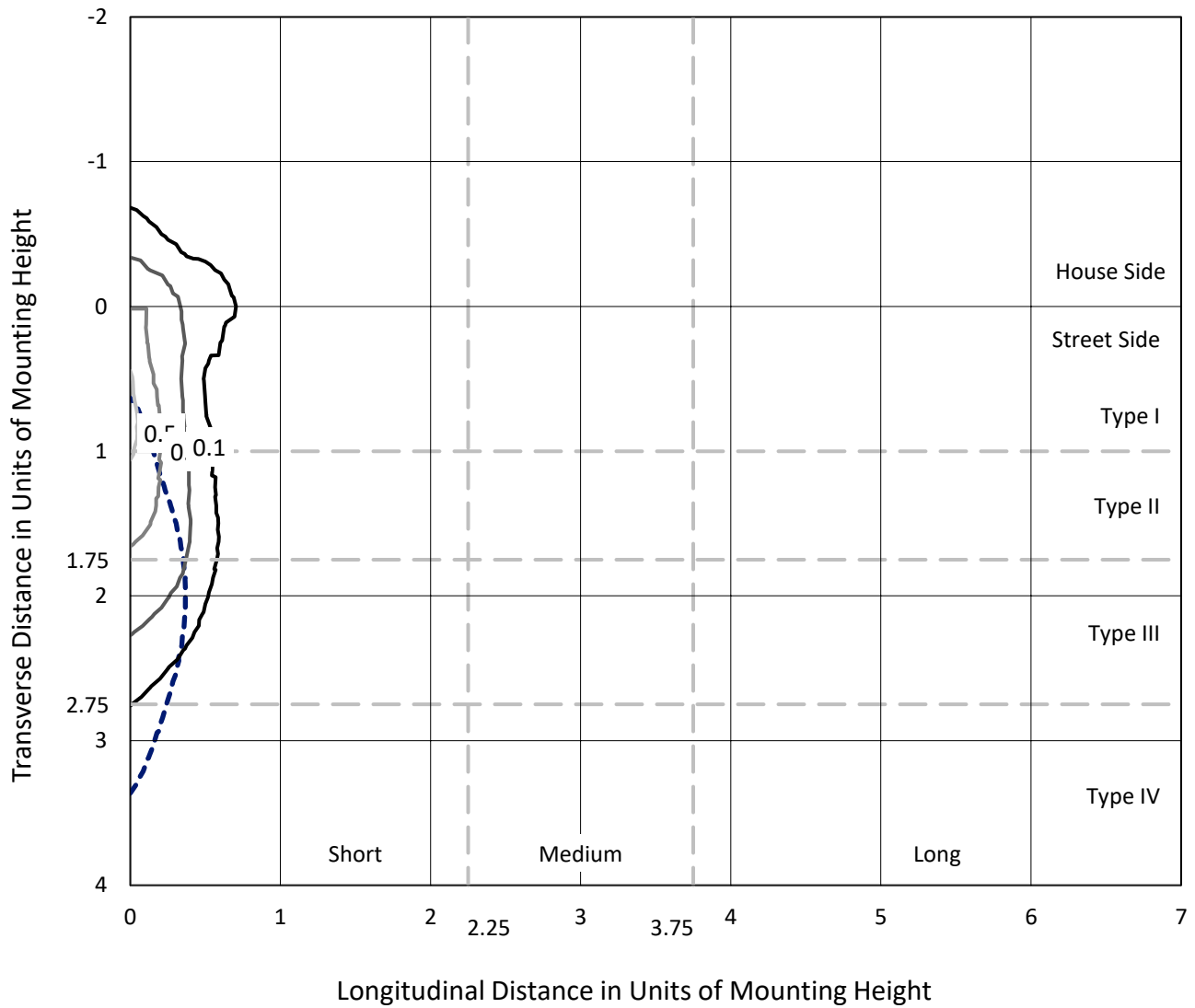
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

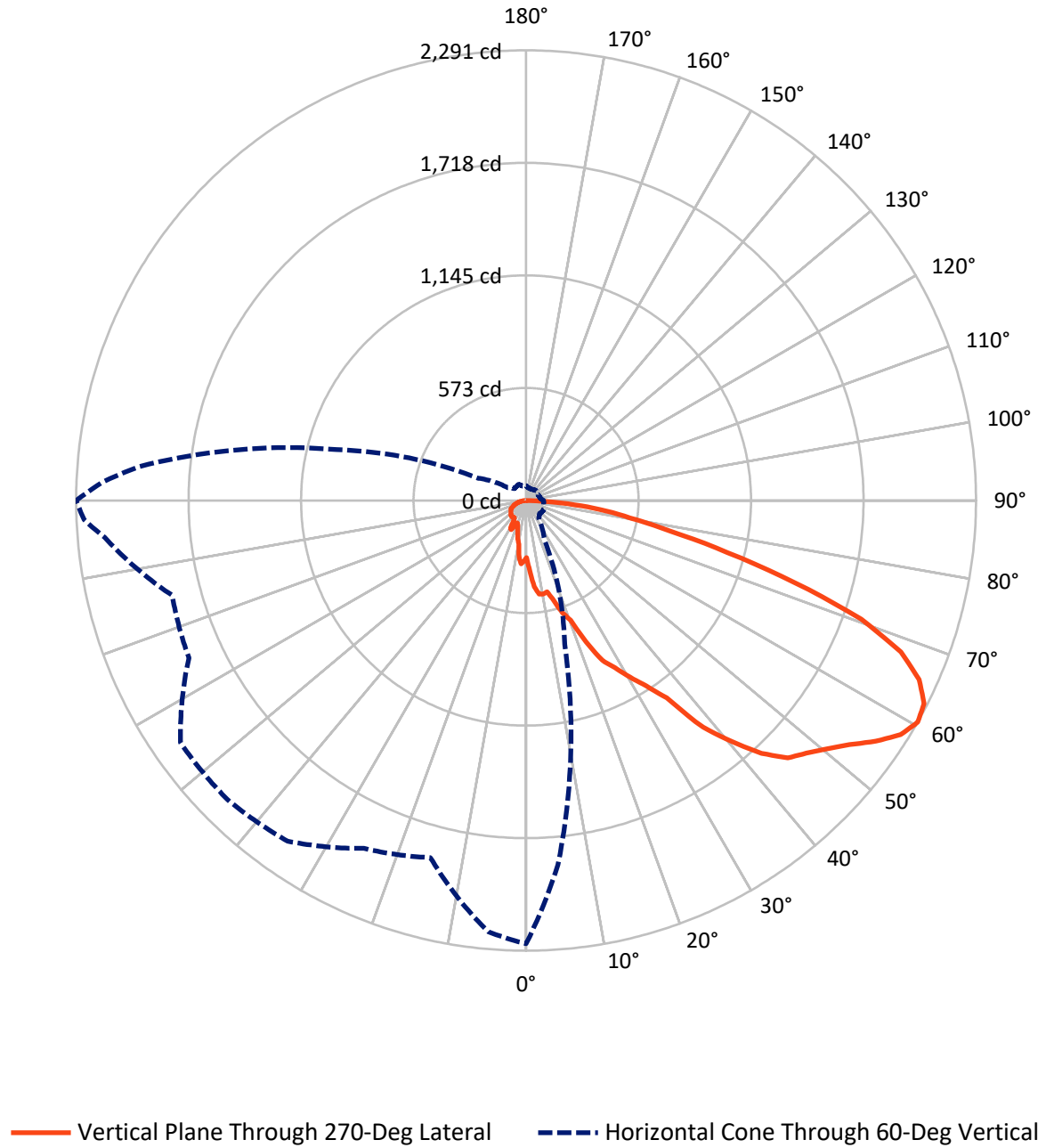
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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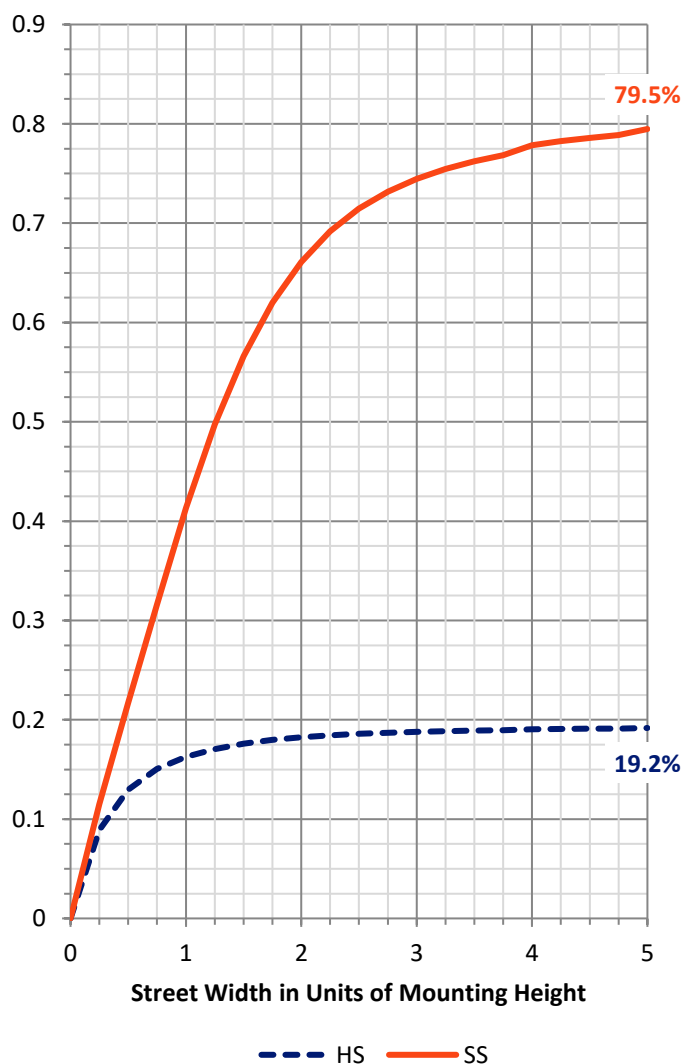
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	532.8	0.0	532.8
	% Fixture	19.4	0.0	19.4
<b>Street Side</b>	Lumens	2218.2	0.0	2218.2
	% Fixture	80.6	0.0	80.6
<b>Total</b>	Lumens	2751.0	0.0	2751.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.3	1.2
10°-20°	96.7	3.5
20°-30°	170.6	6.2
30°-40°	265.8	9.7
40°-50°	437.5	15.9
50°-60°	624.5	22.7
60°-70°	662.2	24.1
70°-80°	365.8	13.3
80°-90°	94.6	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°	2751.0	100.0
0°-180°	2751.0	100.0

**Coefficient of Utilization**

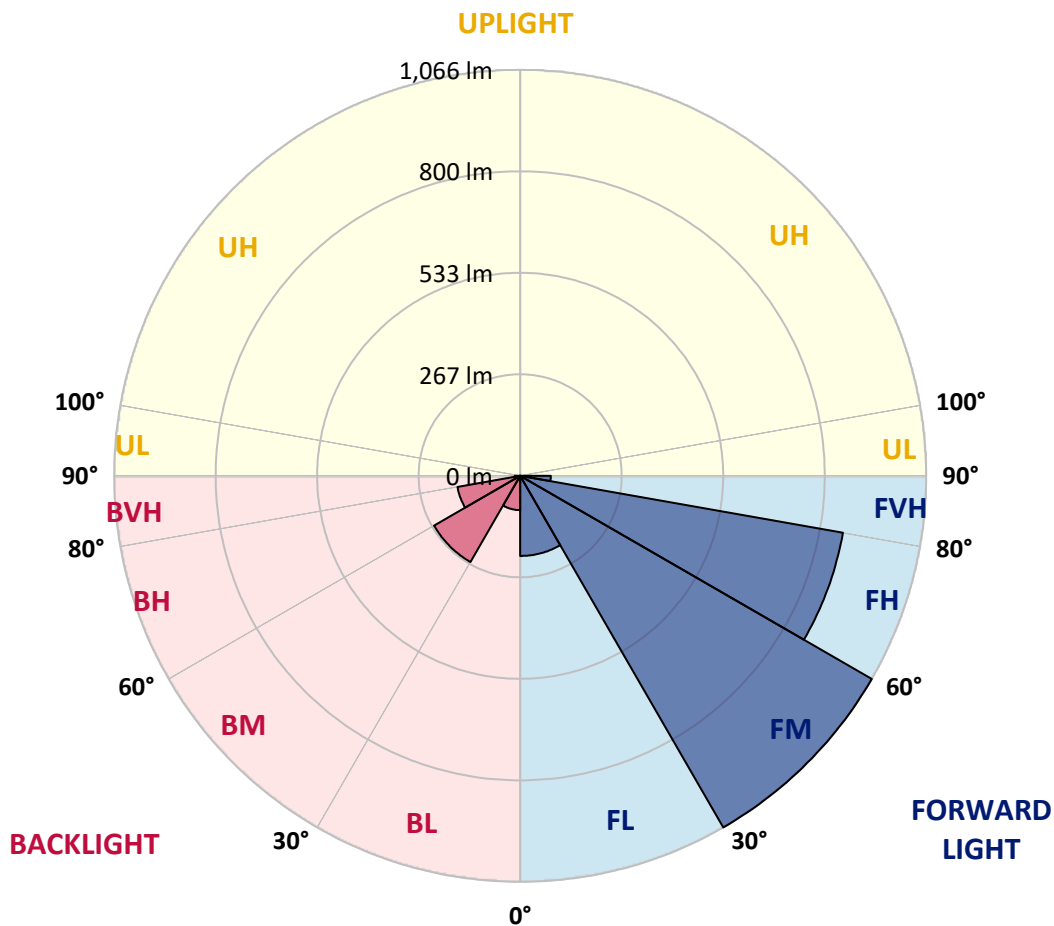


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	210.5	7.7			
FM (30°-60°)	1066.5	38.8			
FH (60°-80°)	860.8	31.3			G1/1800
FVH (80°-90°)	80.4	2.9			G1/100
BL (0°-30°)	90.1	3.3	B0/110		
BM (30°-60°)	261.4	9.5	B1/1000		
BH (60°-80°)	167.2	6.1	B1/500		G1/500
BVH (80°-90°)	14.2	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-G1**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	388.6	391.0	393.2	388.7	384.2	379.5	374.9	368.1	361.2	354.4	347.4
5°	466.7	457.9	448.9	445.3	441.8	438.2	434.6	431.3	428.0	424.5	421.2
7.5°	491.1	478.6	465.9	460.5	455.2	449.7	444.4	432.4	420.3	408.2	396.2
10°	464.3	451.2	438.0	432.8	427.4	422.2	416.9	402.2	387.6	372.9	358.3
12.5°	485.9	472.6	459.1	442.5	426.0	409.3	392.7	384.6	376.4	368.1	360.0
15°	506.7	488.7	470.6	454.0	437.4	420.8	404.2	387.9	371.6	355.3	339.0
17.5°	582.9	552.8	522.8	492.9	462.8	432.9	402.9	384.0	365.1	346.2	327.3
20°	675.7	633.9	591.9	546.5	501.0	455.6	410.1	386.3	362.7	338.9	315.1
22.5°	786.1	733.3	680.6	623.3	566.0	508.6	451.3	416.9	382.4	347.8	313.4
25°	873.8	823.1	772.3	699.7	627.1	554.4	481.8	442.6	403.5	364.3	325.1
27.5°	959.0	878.2	797.3	714.1	631.1	547.9	464.7	428.5	392.3	356.1	319.9
30°	1031.0	966.9	902.8	794.2	685.7	577.0	468.4	424.0	379.5	335.0	290.6
32.5°	1136.3	1044.9	953.3	840.0	726.8	613.6	500.3	443.5	386.6	329.7	272.8
35°	1259.6	1164.5	1069.4	929.4	789.4	649.4	509.3	449.1	388.7	328.5	268.1
37.5°	1489.4	1321.8	1154.1	1001.2	848.3	695.3	542.4	472.4	402.5	332.4	262.4
40°	1616.1	1461.2	1306.3	1115.8	925.2	734.5	544.0	472.4	400.7	329.1	257.4
42.5°	1785.0	1589.1	1393.1	1187.1	981.2	775.1	569.1	489.8	410.5	331.0	251.7
45°	1888.0	1669.6	1451.2	1231.0	1010.8	790.6	570.4	489.9	409.4	328.9	248.4
47.5°	1954.3	1744.7	1534.9	1297.9	1060.9	823.7	586.7	501.3	415.7	330.2	244.6
50°	2017.2	1809.6	1601.8	1355.7	1109.8	863.7	617.6	524.2	430.9	337.4	244.1
52.5°	2094.4	1903.2	1711.8	1447.9	1183.7	919.7	655.6	554.0	452.4	350.8	249.2
55°	2206.7	2018.3	1829.7	1546.4	1262.9	979.6	696.1	583.3	470.6	357.7	244.9
57.5°	2279.5	2088.4	1897.3	1608.4	1319.4	1030.3	741.4	616.4	491.4	366.3	241.3
60°	2255.3	2058.2	1861.0	1585.5	1310.1	1034.6	759.1	624.1	489.3	354.3	219.3
62.5°	2148.5	1939.0	1729.5	1482.7	1236.1	989.3	742.6	605.3	468.2	330.9	193.6
65°	1999.2	1782.6	1565.9	1343.3	1120.7	898.1	675.5	550.9	426.2	301.6	176.9
67.5°	1816.0	1590.2	1364.3	1167.2	970.1	772.9	575.8	471.6	367.6	263.5	159.3
70°	1586.2	1364.3	1142.3	971.8	801.3	630.8	460.3	381.9	303.6	225.3	146.9
72.5°	1274.9	1083.5	892.0	757.8	623.6	489.4	355.2	300.7	246.4	191.9	137.4
75°	906.8	794.2	681.7	577.2	472.8	368.3	263.9	228.6	193.4	158.1	122.8
77.5°	644.4	578.0	511.7	429.8	348.0	266.1	184.3	163.6	143.0	122.3	101.6
80°	476.4	421.0	365.6	303.9	242.2	180.5	118.8	108.7	98.7	88.5	78.4
82.5°	313.7	288.7	263.6	214.7	165.8	117.0	68.1	64.4	60.6	56.9	53.1
85°	140.5	148.4	156.1	126.2	96.1	66.2	36.2	34.5	32.7	31.0	29.2
87.5°	13.5	19.9	26.3	22.6	18.7	15.0	11.1	10.9	10.9	10.8	10.7
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



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**CANDELA DISTRIBUTION (continued):**

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





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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	349.3	351.2	353.1	354.9	352.9	350.9	348.8	346.8	344.2	341.7	339.0
5°	415.5	409.8	404.2	398.5	389.9	381.4	372.7	364.1	363.1	361.9	360.8
7.5°	385.6	375.2	364.7	354.1	340.8	327.5	314.2	300.8	296.8	292.8	288.8
10°	351.2	344.0	336.9	329.7	321.4	313.1	304.7	296.4	285.5	274.4	263.5
12.5°	348.2	336.5	324.6	312.9	307.8	302.7	297.6	292.6	282.9	273.3	263.6
15°	329.5	319.9	310.5	300.8	293.5	286.2	278.8	271.5	263.7	255.8	248.1
17.5°	316.3	305.4	294.4	283.5	275.1	266.7	258.1	249.7	240.4	230.9	221.5
20°	302.6	290.2	277.6	265.1	254.4	243.8	233.1	222.5	212.2	202.0	191.7
22.5°	297.0	280.5	264.1	247.7	236.5	225.1	213.9	202.6	193.1	183.6	174.1
25°	305.5	286.0	266.4	246.8	231.7	216.5	201.4	186.1	178.3	170.4	162.4
27.5°	295.5	270.9	246.5	221.9	205.8	189.5	173.3	157.0	155.8	154.6	153.3
30°	264.8	239.0	213.2	187.5	172.7	157.7	142.9	127.9	125.1	122.2	119.4
32.5°	246.5	220.2	193.9	167.6	154.4	141.0	127.8	114.4	111.2	108.0	104.8
35°	239.6	211.0	182.4	153.8	142.5	131.1	119.8	108.4	106.2	104.0	101.7
37.5°	233.9	205.6	177.2	148.8	137.8	126.9	115.8	104.8	103.1	101.3	99.6
40°	228.6	199.9	171.1	142.2	132.5	122.8	113.1	103.4	102.3	101.2	100.0
42.5°	223.8	195.9	167.8	139.9	131.3	122.7	114.0	105.4	104.3	103.2	102.1
45°	221.1	193.9	166.6	139.4	133.1	126.9	120.4	114.2	111.6	109.1	106.4
47.5°	219.1	193.6	168.1	142.6	136.1	129.5	123.0	116.4	114.2	111.9	109.5
50°	219.5	195.1	170.5	145.9	138.1	130.1	122.2	114.2	113.9	113.6	113.4
52.5°	223.1	197.2	171.2	145.1	136.6	128.1	119.4	110.8	112.6	114.2	115.9
55°	217.9	190.9	163.8	136.9	128.7	120.7	112.6	104.4	106.7	108.8	111.1
57.5°	212.0	182.8	153.6	124.3	118.2	112.0	105.8	99.6	102.0	104.6	107.0
60°	192.5	165.8	139.1	112.4	108.3	104.2	100.0	95.9	96.9	98.0	99.1
62.5°	171.2	148.6	126.2	103.6	100.4	97.1	93.9	90.5	90.5	90.7	90.7
65°	157.6	138.2	118.8	99.5	95.9	92.3	88.5	84.9	84.4	83.9	83.3
67.5°	143.9	128.7	113.4	98.0	92.8	87.7	82.5	77.3	76.6	76.1	75.4
70°	133.3	119.6	106.0	92.4	86.5	80.8	74.9	69.0	68.5	68.1	67.6
72.5°	124.6	111.9	99.1	86.3	80.1	73.8	67.7	61.4	61.0	60.6	60.1
75°	111.5	100.3	88.9	77.6	71.6	65.7	59.7	53.7	53.1	52.7	52.2
77.5°	92.3	82.8	73.4	64.0	59.3	54.7	50.1	45.4	45.1	44.9	44.5
80°	71.0	63.7	56.2	48.9	45.8	42.6	39.5	36.3	36.2	36.1	35.8
82.5°	48.7	44.3	39.9	35.5	33.2	30.8	28.6	26.2	26.3	26.4	26.6
85°	27.8	26.2	24.7	23.1	21.2	19.5	17.6	15.8	16.2	16.6	16.8
87.5°	10.1	9.6	9.1	8.5	7.6	6.8	5.9	4.9	5.2	5.6	5.9
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: P366722  
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**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: P366722  
 CATALOG NUMBER: MSA-SA1A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	336.5	332.5	328.5	324.5	320.5	312.2	304.0	295.8	287.5	292.6	297.8
5°	359.6	352.8	345.8	339.0	332.1	328.2	324.3	320.5	316.6	318.6	320.7
7.5°	284.8	280.8	276.7	272.7	268.5	266.8	265.2	263.5	261.7	266.7	271.6
10°	252.4	246.8	241.2	235.4	229.8	226.5	223.1	219.8	216.5	217.8	219.1
12.5°	254.0	245.7	237.4	229.1	220.9	215.9	211.0	206.0	201.1	202.3	203.5
15°	240.2	231.7	223.1	214.6	206.0	200.3	194.4	188.7	182.8	180.8	178.7
17.5°	212.0	202.7	193.4	184.0	174.7	170.8	166.9	163.0	159.2	157.0	154.9
20°	181.5	172.8	164.1	155.4	146.7	144.1	141.4	138.6	135.9	134.6	133.1
22.5°	164.6	159.3	153.8	148.5	143.0	139.9	137.0	133.9	130.9	129.4	127.8
25°	154.5	155.6	156.8	157.8	158.9	157.6	156.1	154.8	153.3	153.8	154.2
27.5°	152.1	154.4	156.8	159.0	161.3	162.5	163.7	164.9	166.1	166.5	166.9
30°	116.4	117.6	118.7	119.9	121.0	124.3	127.7	130.9	134.2	139.4	144.7
32.5°	101.6	101.2	100.8	100.3	99.9	100.7	101.5	102.1	103.0	104.8	106.8
35°	99.5	98.5	97.5	96.5	95.5	95.9	96.3	96.7	97.1	98.5	100.0
37.5°	97.9	97.5	97.2	96.8	96.4	97.3	98.1	99.1	99.9	101.1	102.3
40°	98.9	98.8	98.7	98.4	98.3	98.8	99.3	99.9	100.4	102.0	103.6
42.5°	101.1	101.1	100.9	100.9	100.8	101.3	101.7	102.3	102.7	103.6	104.6
45°	103.9	103.6	103.5	103.2	103.0	102.8	102.8	102.7	102.6	103.1	103.8
47.5°	107.2	106.3	105.2	104.3	103.2	103.0	102.6	102.3	101.9	102.1	102.4
50°	113.1	110.6	108.2	105.6	103.1	102.4	101.7	101.1	100.4	100.3	100.3
52.5°	117.5	113.8	110.0	106.3	102.6	101.3	100.1	98.9	97.7	97.5	97.3
55°	113.2	110.4	107.8	105.0	102.1	100.4	98.5	96.8	94.9	94.5	94.1
57.5°	109.4	107.6	105.9	104.2	102.4	100.7	98.8	97.1	95.2	94.3	93.3
60°	100.1	100.1	100.3	100.3	100.3	98.4	96.5	94.7	92.8	91.9	91.1
62.5°	90.7	92.1	93.5	94.9	96.3	93.7	91.1	88.5	85.9	85.2	84.7
65°	82.8	83.2	83.7	84.1	84.5	82.5	80.5	78.5	76.5	76.1	75.6
67.5°	74.8	74.6	74.5	74.2	74.1	72.9	71.6	70.4	69.0	68.5	68.0
70°	67.0	66.9	66.8	66.5	66.4	65.3	64.2	63.2	62.1	61.7	61.3
72.5°	59.7	59.6	59.3	59.2	58.9	58.0	57.2	56.2	55.3	54.7	54.2
75°	51.7	51.4	51.1	50.9	50.6	49.8	49.0	48.1	47.3	46.7	46.2
77.5°	44.2	43.8	43.4	42.9	42.5	41.8	41.0	40.3	39.5	38.9	38.3
80°	35.7	35.4	35.1	34.7	34.5	33.8	33.1	32.3	31.6	30.8	30.2
82.5°	26.7	26.6	26.3	26.2	25.9	25.2	24.6	23.9	23.2	22.4	21.6
85°	17.2	17.1	17.0	16.8	16.7	16.2	15.8	15.2	14.7	13.9	13.2
87.5°	6.1	5.9	5.7	5.5	5.2	5.1	4.8	4.7	4.4	4.0	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P366722  
 CATALOG NUMBER: MSA-SA1A-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: P366722

CATALOG NUMBER: MSA-SA1A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	302.8	307.9	308.1	308.1	310.5	312.7	308.1	303.4	298.6	293.9	289.2
5°	322.7	324.7	324.2	323.5	320.6	317.7	314.6	311.5	308.5	305.4	305.5
7.5°	276.5	281.5	285.5	289.4	285.6	281.9	279.9	277.9	275.9	273.9	273.6
10°	220.3	221.7	223.3	224.7	222.5	220.1	224.1	228.1	231.9	235.9	231.5
12.5°	204.7	205.9	203.1	200.2	199.2	198.3	197.4	196.3	195.4	194.3	193.8
15°	176.7	174.5	172.4	170.1	169.6	168.9	168.2	167.4	166.8	166.0	163.6
17.5°	152.8	150.6	147.0	143.3	141.8	140.2	139.8	139.4	138.9	138.5	136.2
20°	131.8	130.3	129.4	128.3	126.9	125.4	123.9	122.4	120.8	119.4	117.2
22.5°	126.3	124.7	123.5	122.2	121.9	121.6	119.0	116.2	113.5	110.7	109.5
25°	154.8	155.2	147.8	140.3	139.7	139.0	134.2	129.3	124.4	119.5	115.4
27.5°	167.2	167.6	167.3	167.0	164.9	162.6	154.5	146.2	138.1	129.8	123.9
30°	150.0	155.2	157.2	159.2	157.7	156.1	147.5	139.1	130.6	122.0	118.2
32.5°	108.7	110.6	113.9	117.1	118.8	120.4	117.8	115.1	112.4	109.8	109.1
35°	101.3	102.8	103.5	104.2	103.1	102.0	100.0	98.0	95.9	93.9	93.5
37.5°	103.4	104.6	105.9	107.2	104.3	101.2	98.9	96.8	94.5	92.3	90.4
40°	105.2	106.8	107.6	108.4	105.5	102.6	99.7	97.1	94.3	91.5	89.6
42.5°	105.5	106.4	107.9	109.4	105.2	100.9	98.4	95.7	93.2	90.5	88.7
45°	104.3	104.8	106.2	107.5	102.7	97.7	95.5	93.1	90.8	88.4	86.8
47.5°	102.6	102.8	103.9	104.8	99.7	94.5	92.4	90.3	88.0	85.9	84.3
50°	100.1	100.0	100.8	101.5	96.3	91.1	88.9	86.9	84.8	82.7	81.3
52.5°	97.1	96.8	97.6	98.3	92.8	87.3	85.5	83.7	81.9	80.0	78.9
55°	93.6	93.2	93.9	94.5	89.2	83.7	82.1	80.4	78.8	77.0	76.1
57.5°	92.3	91.3	91.7	92.1	86.1	80.1	78.5	76.9	75.3	73.7	73.0
60°	90.1	89.2	89.6	89.9	83.5	76.9	75.4	73.8	72.4	70.8	70.1
62.5°	84.0	83.3	83.9	84.4	78.6	72.8	71.4	70.2	68.9	67.6	66.6
65°	75.2	74.6	75.7	76.8	71.8	66.9	66.1	65.3	64.4	63.6	62.6
67.5°	67.4	66.9	68.0	69.0	65.4	61.8	61.0	60.2	59.4	58.6	58.1
70°	60.9	60.5	61.4	62.4	59.3	56.2	55.4	54.7	53.9	53.1	52.7
72.5°	53.5	53.0	54.2	55.3	52.7	50.1	49.4	48.6	47.9	47.1	46.9
75°	45.7	45.1	46.2	47.1	45.4	43.5	42.9	42.2	41.5	40.9	40.7
77.5°	37.7	37.0	38.1	39.0	37.9	36.7	36.2	35.5	35.0	34.3	34.3
80°	29.4	28.6	29.4	30.0	29.6	29.2	28.8	28.3	27.9	27.4	27.5
82.5°	20.8	20.0	20.4	20.8	21.1	21.4	21.4	21.4	21.4	21.4	21.4
85°	12.4	11.6	11.8	11.9	12.3	12.7	12.8	13.0	13.1	13.2	13.4
87.5°	3.2	2.8	2.5	2.1	2.5	2.8	3.1	3.2	3.5	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P366722  
 CATALOG NUMBER: MSA-SA1A-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: P366722  
 CATALOG NUMBER: MSA-SA1A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	284.6	279.7	275.1	278.0	280.8	283.7	286.6	286.7	286.7	286.8	286.8
5°	305.8	305.9	306.0	303.2	300.6	297.8	295.0	293.5	292.0	290.4	289.0
7.5°	273.2	272.9	272.5	269.9	267.2	264.5	261.9	255.4	248.9	242.5	235.9
10°	227.0	222.6	218.1	217.0	216.1	215.0	213.9	212.2	210.6	208.8	207.1
12.5°	193.2	192.7	192.1	189.3	186.5	183.6	180.8	180.8	180.8	180.8	180.8
15°	161.0	158.6	156.1	154.8	153.3	152.0	150.5	149.8	149.2	148.5	147.8
17.5°	133.8	131.5	129.1	128.9	128.6	128.3	128.1	127.4	126.7	126.1	125.4
20°	115.1	113.0	110.8	111.6	112.4	113.1	113.9	113.2	112.6	111.8	111.1
22.5°	108.2	107.0	105.6	105.0	104.3	103.5	102.8	102.8	103.0	103.0	103.0
25°	111.4	107.2	103.1	101.1	99.1	96.9	94.9	94.1	93.5	92.7	91.9
27.5°	118.0	112.0	106.2	102.7	99.2	95.7	92.3	90.8	89.2	87.7	86.1
30°	114.2	110.3	106.3	102.3	98.3	94.3	90.3	88.4	86.5	84.5	82.7
32.5°	108.4	107.6	107.0	103.2	99.5	95.6	91.9	91.1	90.4	89.6	88.8
35°	92.9	92.5	92.0	91.1	90.1	89.2	88.3	87.2	86.1	85.1	84.0
37.5°	88.7	86.8	84.9	84.5	84.1	83.7	83.3	82.9	82.5	82.0	81.6
40°	87.7	85.9	84.0	83.3	82.7	81.9	81.2	81.3	81.6	81.7	81.9
42.5°	86.7	84.8	82.8	82.3	81.7	81.2	80.7	80.8	81.1	81.2	81.3
45°	85.3	83.7	82.1	81.2	80.4	79.4	78.5	79.3	80.1	80.8	81.6
47.5°	82.7	80.9	79.3	78.8	78.2	77.6	77.0	77.8	78.6	79.3	80.1
50°	79.9	78.5	77.0	76.9	76.8	76.5	76.4	76.9	77.4	78.0	78.5
52.5°	77.7	76.6	75.4	75.4	75.3	75.3	75.2	75.7	76.2	76.6	77.2
55°	75.3	74.4	73.4	73.6	73.8	74.0	74.1	74.6	75.3	75.8	76.4
57.5°	72.2	71.6	70.8	71.3	71.7	72.2	72.6	73.0	73.6	74.0	74.4
60°	69.3	68.6	67.8	68.4	69.0	69.6	70.1	70.5	70.9	71.3	71.7
62.5°	65.7	64.6	63.7	64.5	65.2	66.0	66.6	66.9	67.3	67.6	67.8
65°	61.8	60.9	60.0	60.5	61.0	61.4	62.0	62.4	62.8	63.2	63.6
67.5°	57.4	56.9	56.2	56.6	57.0	57.4	57.8	58.0	58.0	58.1	58.1
70°	52.2	51.8	51.3	51.5	51.9	52.2	52.5	52.5	52.5	52.3	52.3
72.5°	46.7	46.5	46.2	46.3	46.6	46.7	46.9	46.7	46.6	46.5	46.3
75°	40.6	40.5	40.3	40.5	40.7	40.9	41.0	40.9	40.6	40.5	40.2
77.5°	34.5	34.5	34.5	34.5	34.6	34.6	34.6	34.3	34.0	33.8	33.5
80°	27.6	27.8	27.9	27.9	27.9	27.9	27.9	27.6	27.4	27.0	26.7
82.5°	21.4	21.4	21.4	21.4	21.5	21.5	21.5	20.8	20.3	19.6	19.0
85°	13.4	13.5	13.5	13.6	13.8	13.8	13.9	13.0	12.2	11.2	10.3
87.5°	3.6	3.6	3.6	3.6	3.6	3.5	3.5	2.7	1.7	0.9	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: P366722  
 CATALOG NUMBER: MSA-SA1A-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: P366722  
 CATALOG NUMBER: MSA-SA1A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	287.6	288.4	289.1	289.9	290.0	290.2	290.2	290.3	287.5	284.7	281.7
5°	291.0	292.8	294.8	296.7	296.3	295.9	295.5	295.1	294.3	293.6	292.8
7.5°	234.5	233.1	231.7	230.2	231.4	232.6	233.8	235.0	235.5	236.1	236.5
10°	203.8	200.4	197.1	193.8	191.9	189.9	188.0	186.0	185.7	185.6	185.3
12.5°	177.3	173.7	170.2	166.6	165.6	164.4	163.3	162.1	163.2	164.2	165.2
15°	146.3	145.0	143.5	142.1	143.3	144.5	145.7	146.9	148.0	148.9	150.0
17.5°	124.7	124.2	123.5	122.8	123.9	125.1	126.2	127.3	129.7	132.1	134.5
20°	110.6	110.2	109.6	109.1	108.7	108.2	107.8	107.2	110.7	114.0	117.5
22.5°	102.1	101.3	100.5	99.7	99.9	100.0	100.0	100.1	103.0	105.9	108.7
25°	91.6	91.3	91.1	90.8	91.6	92.4	93.1	93.9	96.4	98.9	101.3
27.5°	86.3	86.4	86.5	86.7	87.7	88.9	90.0	91.1	92.8	94.5	96.3
30°	83.3	84.1	84.8	85.5	85.9	86.3	86.7	87.1	88.8	90.4	92.1
32.5°	87.7	86.7	85.5	84.4	84.9	85.6	86.1	86.7	88.3	89.9	91.5
35°	83.6	83.1	82.7	82.1	82.8	83.5	84.0	84.7	86.1	87.5	88.9
37.5°	81.5	81.3	81.2	81.1	81.5	81.9	82.1	82.5	83.9	85.2	86.4
40°	81.3	80.7	80.1	79.4	79.9	80.3	80.5	80.9	82.5	84.1	85.7
42.5°	80.5	79.7	78.8	78.0	78.4	78.9	79.3	79.7	81.5	83.1	84.8
45°	80.4	79.2	77.8	76.6	77.2	77.7	78.2	78.8	80.1	81.5	82.7
47.5°	78.9	77.7	76.5	75.3	75.6	75.8	76.0	76.2	77.4	78.5	79.7
50°	77.7	76.8	76.0	75.0	74.6	74.4	74.0	73.6	74.5	75.4	76.4
52.5°	76.2	75.3	74.2	73.3	72.8	72.2	71.7	71.2	72.0	72.6	73.4
55°	75.3	74.1	73.0	71.8	71.2	70.5	69.8	69.2	69.7	70.1	70.6
57.5°	73.3	72.2	71.0	70.0	69.2	68.4	67.4	66.6	66.9	67.2	67.4
60°	70.6	69.4	68.4	67.2	66.2	65.3	64.2	63.3	63.4	63.7	63.8
62.5°	66.8	65.7	64.5	63.4	62.4	61.4	60.4	59.3	59.6	59.7	60.0
65°	62.5	61.3	60.2	59.0	58.1	57.2	56.1	55.1	55.4	55.7	55.8
67.5°	57.3	56.3	55.5	54.6	53.8	52.9	52.1	51.1	51.3	51.4	51.5
70°	51.7	50.9	50.2	49.4	48.7	48.1	47.4	46.7	46.7	46.9	46.9
72.5°	45.7	45.0	44.3	43.7	43.0	42.5	41.8	41.1	41.4	41.7	41.8
75°	39.5	39.0	38.3	37.7	37.1	36.6	35.9	35.4	35.7	35.9	36.1
77.5°	33.1	32.7	32.2	31.8	31.2	30.7	30.0	29.5	29.8	30.0	30.2
80°	26.4	26.2	25.8	25.5	25.0	24.4	23.9	23.4	23.5	23.5	23.6
82.5°	19.1	19.2	19.2	19.4	19.0	18.4	18.0	17.5	17.5	17.5	17.4
85°	10.7	11.2	11.6	12.0	11.6	11.2	10.8	10.4	10.3	10.3	10.1
87.5°	0.4	0.7	1.1	1.3	1.2	1.1	0.8	0.7	0.8	0.9	0.9
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: P366722  
 CATALOG NUMBER: MSA-SA1A-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: P366722  
 CATALOG NUMBER: MSA-SA1A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	278.9	281.2	283.5	285.8	288.0	291.5	295.0	298.6	302.2	300.2	298.0
5°	292.0	293.4	294.8	296.2	297.5	301.4	305.1	309.8	314.3	313.8	313.1
7.5°	237.0	238.9	240.8	242.5	244.4	250.2	256.1	261.0	266.0	265.3	264.5
10°	185.1	188.9	192.9	196.8	200.7	205.5	210.2	214.3	218.5	225.4	232.2
12.5°	166.2	172.3	178.3	184.3	190.3	193.8	197.1	202.4	207.8	211.5	215.4
15°	150.9	156.5	162.1	167.7	173.3	173.6	173.9	179.5	185.1	188.3	191.3
17.5°	136.9	139.9	143.0	145.9	149.0	148.0	146.9	149.6	152.1	153.4	154.9
20°	120.8	123.0	125.1	127.3	129.4	130.9	132.2	133.8	135.3	133.9	132.5
22.5°	111.5	114.7	118.0	121.2	124.4	125.4	126.2	125.3	124.3	123.9	123.5
25°	103.9	107.8	111.8	115.6	119.5	121.4	123.2	124.0	124.7	123.2	121.8
27.5°	98.0	102.7	107.2	111.9	116.4	119.8	123.1	124.0	124.8	123.8	122.6
30°	93.7	98.8	103.9	109.0	114.0	119.1	124.0	128.5	132.7	132.3	131.9
32.5°	93.1	96.5	100.0	103.5	107.0	110.2	113.2	113.5	113.6	112.6	111.4
35°	90.3	92.5	94.8	97.1	99.3	101.3	103.2	103.0	102.7	101.6	100.5
37.5°	87.7	90.0	92.4	94.7	96.9	100.4	103.8	103.1	102.3	101.2	100.1
40°	87.3	89.9	92.4	94.8	97.3	100.5	103.8	103.1	102.4	101.1	99.7
42.5°	86.4	88.9	91.3	93.9	96.3	100.1	103.9	102.7	101.3	100.3	99.2
45°	84.0	86.3	88.5	90.8	93.1	97.2	101.3	99.9	98.4	98.0	97.5
47.5°	80.8	83.1	85.3	87.6	89.9	94.0	98.0	96.8	95.5	95.3	95.1
50°	77.3	79.4	81.7	83.9	86.0	90.1	94.1	93.1	92.0	92.1	92.1
52.5°	74.1	76.1	78.0	80.0	81.9	86.0	90.0	89.2	88.3	88.5	88.7
55°	71.0	72.6	74.2	75.8	77.4	81.5	85.5	84.3	83.1	83.5	83.9
57.5°	67.7	69.0	70.4	71.6	72.9	76.9	80.8	79.4	78.0	78.6	79.2
60°	64.0	65.2	66.4	67.4	68.6	72.2	75.7	74.5	73.2	74.1	74.9
62.5°	60.1	61.0	62.0	62.9	63.8	67.2	70.5	69.6	68.6	69.7	70.6
65°	56.1	56.7	57.6	58.2	58.9	62.1	65.2	64.5	63.8	64.8	65.7
67.5°	51.7	52.2	52.9	53.4	53.9	56.9	59.8	59.2	58.4	59.2	59.8
70°	46.9	47.4	47.8	48.3	48.7	51.4	54.1	53.1	52.1	52.9	53.5
72.5°	42.1	42.3	42.7	43.0	43.3	45.3	47.3	46.5	45.7	46.5	47.1
75°	36.3	36.6	36.9	37.1	37.4	39.1	40.7	39.8	38.7	39.5	40.3
77.5°	30.4	30.6	30.8	31.0	31.1	32.3	33.4	32.4	31.4	32.3	33.2
80°	23.6	23.8	23.9	23.9	24.0	24.4	24.8	24.2	23.4	24.6	25.8
82.5°	17.4	17.2	17.2	17.1	17.0	17.0	16.8	16.4	15.9	17.0	18.0
85°	10.0	9.9	9.6	9.5	9.2	8.8	8.4	8.3	8.1	9.1	10.0
87.5°	1.1	0.9	0.7	0.5	0.3	0.1	0.0	0.0	0.0	0.5	1.2
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: P366722  
 CATALOG NUMBER: MSA-SA1A-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: P366722  
 CATALOG NUMBER: MSA-SA1A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	296.0	293.9	291.9	289.9	287.9	285.9	289.6	293.4	297.1	300.8	304.2
5°	312.6	311.9	310.2	308.6	306.8	305.1	306.0	307.1	308.1	309.0	311.0
7.5°	263.9	263.1	266.8	270.4	274.1	277.7	278.7	279.5	280.4	281.2	280.7
10°	239.2	246.0	247.7	249.3	251.0	252.6	255.3	258.0	260.5	263.2	264.7
12.5°	219.1	222.9	229.0	235.3	241.4	247.6	251.6	255.6	259.6	263.6	271.9
15°	194.6	197.6	202.3	207.0	211.6	216.3	222.1	227.9	233.7	239.4	248.5
17.5°	156.2	157.6	161.0	164.5	167.8	171.3	179.1	186.7	194.4	202.0	212.4
20°	131.1	129.7	129.7	129.8	129.8	129.8	137.5	145.1	152.9	160.5	174.3
22.5°	123.0	122.6	121.1	119.5	118.0	116.4	120.4	124.6	128.6	132.6	143.8
25°	120.2	118.7	116.8	115.0	113.1	111.2	113.8	116.3	118.8	121.4	130.2
27.5°	121.5	120.3	121.2	122.0	123.0	123.8	124.6	125.4	126.2	127.0	130.1
30°	131.5	131.1	132.6	133.9	135.4	136.7	134.9	133.1	131.3	129.4	130.5
32.5°	110.3	109.1	108.6	108.0	107.5	107.0	106.8	106.7	106.4	106.3	108.7
35°	99.5	98.4	97.6	96.8	95.9	95.1	95.5	95.7	96.1	96.4	99.1
37.5°	99.1	98.0	97.1	96.1	95.1	94.1	94.5	95.1	95.5	95.9	97.9
40°	98.4	97.1	96.5	96.0	95.5	94.9	95.2	95.5	95.6	95.9	97.3
42.5°	98.0	96.9	96.7	96.4	96.1	95.9	96.1	96.4	96.5	96.8	98.5
45°	97.1	96.5	96.8	97.1	97.3	97.6	97.6	97.6	97.6	97.6	99.5
47.5°	94.9	94.7	95.5	96.3	97.1	97.9	99.2	100.5	101.7	103.1	103.5
50°	92.3	92.3	93.6	94.9	96.1	97.5	100.7	103.8	107.0	110.0	108.0
52.5°	88.9	89.1	91.1	92.9	94.9	96.8	99.7	102.7	105.5	108.4	105.5
55°	84.1	84.5	87.1	89.5	92.0	94.4	96.7	98.9	101.2	103.5	100.4
57.5°	79.9	80.4	83.1	85.6	88.3	90.8	92.1	93.6	94.9	96.3	94.3
60°	75.8	76.6	80.1	83.6	86.9	90.4	89.3	88.3	87.1	86.0	85.9
62.5°	71.7	72.6	75.8	79.0	82.1	85.3	83.7	82.1	80.4	78.8	79.4
65°	66.5	67.4	68.9	70.4	71.7	73.2	73.0	73.0	72.9	72.8	74.1
67.5°	60.6	61.3	62.2	63.0	64.0	64.8	65.3	66.0	66.5	67.0	68.6
70°	54.3	55.0	55.9	56.7	57.7	58.5	59.2	59.8	60.4	61.0	62.6
72.5°	47.9	48.6	49.5	50.5	51.3	52.2	52.7	53.3	53.7	54.2	55.5
75°	41.1	41.9	42.9	43.7	44.6	45.4	45.8	46.2	46.6	47.0	48.2
77.5°	34.2	35.1	36.1	37.0	37.9	38.9	39.0	39.1	39.3	39.4	40.5
80°	26.8	28.0	29.0	29.9	30.8	31.8	31.8	31.8	31.8	31.8	32.3
82.5°	19.1	20.2	21.2	22.2	23.2	24.2	24.2	24.0	24.0	23.9	23.9
85°	10.9	11.9	12.6	13.4	14.0	14.7	14.7	14.7	14.6	14.6	14.3
87.5°	1.7	2.3	2.5	2.9	3.2	3.5	3.3	3.3	3.2	3.1	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: P366722  
 CATALOG NUMBER: MSA-SA1A-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: P366722  
 CATALOG NUMBER: MSA-SA1A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	307.5	310.9	314.2	313.7	313.1	312.6	312.1	314.1	315.9	317.9	319.8
5°	312.9	314.9	316.7	318.2	319.7	321.1	322.6	329.4	336.1	342.9	349.6
7.5°	280.1	279.5	278.9	285.2	291.6	297.9	304.2	312.9	321.5	330.2	338.9
10°	266.1	267.6	269.1	271.6	274.3	276.8	279.3	287.9	296.4	305.0	313.5
12.5°	280.0	288.3	296.4	298.4	300.6	302.6	304.6	306.3	308.1	309.7	311.4
15°	257.6	266.7	275.7	280.9	286.2	291.2	296.4	309.5	322.5	335.6	348.5
17.5°	222.7	233.1	243.4	256.2	269.1	281.9	294.7	306.7	318.7	330.6	342.6
20°	188.0	201.6	215.4	229.4	243.3	257.3	271.2	282.9	294.7	306.3	318.1
22.5°	154.9	166.1	177.2	194.3	211.2	228.3	245.3	267.2	289.0	310.9	332.6
25°	138.9	147.7	156.4	174.0	191.6	209.1	226.7	255.2	283.5	311.9	340.2
27.5°	133.3	136.3	139.4	155.4	171.3	187.3	203.2	233.9	264.7	295.2	325.9
30°	131.5	132.6	133.7	146.2	158.8	171.3	183.9	214.2	244.6	274.9	305.2
32.5°	111.0	113.4	115.6	127.9	140.1	152.4	164.5	195.1	225.5	256.1	286.6
35°	101.7	104.4	107.1	119.1	131.1	143.0	155.0	187.2	219.5	251.7	283.9
37.5°	99.9	101.9	103.9	117.5	131.1	144.7	158.4	190.9	223.5	256.1	288.7
40°	98.9	100.4	101.9	115.1	128.5	141.7	154.9	189.1	223.1	257.3	291.4
42.5°	100.1	101.9	103.5	115.5	127.4	139.4	151.3	186.7	221.9	257.3	292.6
45°	101.2	103.1	104.8	116.0	127.3	138.5	149.7	187.5	225.1	262.9	300.6
47.5°	103.8	104.2	104.4	114.2	123.8	133.5	143.1	181.6	220.1	258.4	296.8
50°	105.9	103.9	101.7	111.9	121.9	132.1	142.1	178.5	215.0	251.3	287.8
52.5°	102.6	99.5	96.5	107.5	118.4	129.3	140.2	176.7	213.2	249.7	286.2
55°	97.5	94.4	91.3	102.4	113.5	124.6	135.7	172.0	208.4	244.8	281.1
57.5°	92.4	90.4	88.4	97.5	106.7	115.8	124.8	164.2	203.5	242.9	282.1
60°	85.7	85.5	85.3	92.4	99.6	106.7	113.8	152.4	190.8	229.4	267.9
62.5°	80.0	80.7	81.2	86.9	92.7	98.3	104.0	141.3	178.7	215.9	253.2
65°	75.6	76.9	78.2	84.8	91.3	97.7	104.3	135.5	166.8	198.0	229.3
67.5°	70.2	71.8	73.4	82.0	90.5	99.1	107.6	133.4	159.2	184.9	210.7
70°	64.1	65.7	67.2	78.1	88.9	99.9	110.7	133.5	156.5	179.3	202.2
72.5°	56.9	58.2	59.6	71.3	83.1	94.8	106.6	125.9	145.3	164.5	183.9
75°	49.5	50.7	51.9	62.1	72.2	82.4	92.5	107.5	122.3	137.3	152.1
77.5°	41.4	42.5	43.4	50.2	57.0	63.8	70.6	82.1	93.5	105.0	116.3
80°	32.8	33.4	33.9	37.9	41.8	45.8	49.7	57.3	64.9	72.4	80.0
82.5°	24.0	24.0	24.0	26.6	29.2	31.8	34.3	38.2	41.9	45.8	49.5
85°	14.0	13.6	13.4	15.1	16.8	18.6	20.3	21.9	23.5	25.1	26.7
87.5°	2.3	1.7	1.3	2.4	3.5	4.5	5.6	6.1	6.8	7.3	7.9
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: P366722  
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**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: P366722

CATALOG NUMBER: MSA-SA1A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	315.3	310.9	306.3	301.8	308.5	315.1	321.8	328.5	346.2	356.8	357.5
5°	355.2	360.8	366.4	372.0	377.6	383.2	388.7	394.3	423.2	440.9	444.3
7.5°	348.1	357.5	366.7	375.9	391.8	407.7	423.6	439.4	463.9	481.5	493.1
10°	325.0	336.5	348.0	359.5	378.3	397.2	416.1	434.9	460.8	484.0	495.1
12.5°	329.7	348.0	366.1	384.4	400.7	417.1	433.4	449.7	467.6	476.4	496.6
15°	361.2	373.9	386.6	399.3	423.8	448.3	472.8	497.3	507.4	527.6	545.7
17.5°	366.0	389.2	412.6	435.8	465.9	495.9	526.0	556.0	574.8	600.9	622.8
20°	351.0	383.9	416.9	449.7	488.4	527.3	566.0	604.8	628.7	650.6	684.5
22.5°	368.9	405.3	441.4	477.8	529.2	580.5	631.9	683.1	733.1	781.9	804.9
25°	388.7	437.3	485.8	534.3	598.5	662.6	726.8	790.9	855.1	900.9	927.4
27.5°	374.8	423.6	472.4	521.2	600.6	680.2	759.6	839.1	907.9	963.0	985.7
30°	365.1	424.9	484.7	544.5	637.7	730.9	824.1	917.3	980.9	1042.5	1075.8
32.5°	363.3	440.1	516.8	593.5	702.1	810.5	919.1	1027.5	1069.7	1124.3	1169.3
35°	368.1	452.5	536.8	621.0	745.5	869.9	994.3	1118.7	1178.7	1232.7	1272.1
37.5°	382.8	477.0	571.0	665.1	815.1	965.1	1115.1	1265.1	1365.6	1464.5	1482.2
40°	391.1	491.0	590.7	690.5	864.9	1039.3	1213.6	1388.0	1503.7	1612.2	1619.6
42.5°	400.9	509.1	617.3	725.6	918.9	1112.4	1305.8	1499.1	1642.3	1759.0	1762.5
45°	412.1	523.4	634.9	746.3	948.2	1150.0	1351.8	1553.6	1726.7	1868.5	1833.9
47.5°	416.5	536.3	655.9	775.5	990.8	1205.9	1421.2	1636.3	1791.6	1920.5	1887.4
50°	418.2	548.8	679.3	809.7	1032.7	1255.8	1478.8	1701.8	1859.8	1985.6	1934.8
52.5°	429.0	571.9	714.8	857.7	1090.0	1322.3	1554.7	1787.0	1942.4	2063.3	2000.3
55°	443.6	606.1	768.5	931.0	1171.5	1411.8	1652.3	1892.6	2048.6	2161.0	2082.9
57.5°	457.1	632.1	807.1	982.0	1231.1	1480.4	1729.6	1978.8	2136.7	2248.0	2172.3
60°	450.5	633.2	815.9	998.5	1243.4	1488.2	1733.1	1977.8	2157.2	2290.6	2251.8
62.5°	430.8	608.4	785.8	963.4	1195.9	1428.2	1660.7	1893.0	2103.0	2274.0	2272.3
65°	392.7	556.1	719.5	882.9	1098.0	1313.3	1528.4	1743.5	1990.9	2198.7	2212.2
67.5°	346.4	482.0	617.7	753.4	955.9	1158.5	1361.1	1563.6	1828.1	2057.4	2069.0
70°	301.5	401.0	500.3	599.7	777.5	955.4	1133.1	1311.0	1578.2	1810.1	1820.8
72.5°	248.9	313.9	378.8	443.9	587.9	732.0	876.0	1020.0	1254.6	1433.0	1493.3
75°	190.7	229.3	267.9	306.4	423.0	539.6	656.0	772.6	928.6	1060.2	1128.1
77.5°	136.3	156.4	176.4	196.4	295.5	394.6	493.5	592.6	674.6	749.2	795.0
80°	89.5	98.8	108.3	117.6	200.0	282.4	364.7	447.1	497.0	537.1	560.2
82.5°	54.2	58.9	63.4	68.1	134.9	201.6	268.3	335.0	363.6	382.7	403.3
85°	29.2	31.8	34.3	36.9	79.7	122.4	165.3	208.0	210.8	213.1	243.7
87.5°	8.5	9.3	10.0	10.7	17.6	24.7	31.6	38.6	24.0	15.0	30.7
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: P366722  
 CATALOG NUMBER: MSA-SA1A-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: P366722

CATALOG NUMBER: MSA-SA1A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	353.6	351.8	350.1	348.2	346.5	339.2	332.0	324.6	317.3	324.3	331.3
5°	440.4	445.7	450.9	456.3	461.6	462.0	462.3	462.7	462.9	464.3	465.6
7.5°	502.9	512.4	521.7	531.2	540.7	548.0	555.3	562.8	570.2	563.5	556.8
10°	508.2	528.2	548.3	568.3	588.3	591.9	595.4	599.0	602.6	607.4	612.1
12.5°	513.6	538.0	562.3	586.7	611.2	621.8	632.4	643.1	653.6	658.8	663.9
15°	570.0	584.5	598.7	613.2	627.5	634.8	642.0	649.4	656.7	661.1	665.4
17.5°	642.7	648.0	653.2	658.6	663.9	668.8	673.8	678.7	683.7	684.5	685.3
20°	708.9	710.0	710.9	712.0	712.9	702.5	692.2	681.8	671.4	673.3	675.0
22.5°	808.3	802.4	796.6	790.8	785.0	765.4	745.9	726.3	706.8	698.4	690.1
25°	957.8	942.8	927.9	912.9	898.0	866.7	835.6	804.4	773.3	755.0	736.8
27.5°	1006.0	973.4	941.0	908.4	875.8	852.2	828.7	805.0	781.5	752.6	723.6
30°	1103.5	1052.1	1000.8	949.4	898.0	875.1	852.3	829.3	806.5	776.9	747.4
32.5°	1189.9	1136.5	1083.1	1029.5	976.1	932.8	889.6	846.3	803.0	783.0	763.0
35°	1289.9	1222.7	1155.6	1088.4	1021.2	984.1	947.1	910.0	873.0	842.7	812.5
37.5°	1435.6	1364.1	1292.7	1221.1	1149.7	1099.5	1049.4	999.2	949.1	932.4	915.9
40°	1574.4	1490.1	1405.8	1321.4	1237.1	1198.7	1160.2	1121.6	1083.2	1055.0	1026.8
42.5°	1690.7	1607.3	1524.0	1440.5	1357.2	1329.1	1301.2	1273.2	1245.3	1222.1	1198.8
45°	1730.7	1662.6	1594.6	1526.5	1458.4	1448.5	1438.8	1428.9	1419.1	1401.9	1384.7
47.5°	1794.9	1725.5	1656.2	1586.7	1517.3	1520.9	1524.5	1528.2	1531.8	1532.8	1533.6
50°	1832.7	1766.7	1700.9	1634.9	1569.1	1586.6	1604.0	1621.4	1638.9	1678.6	1718.1
52.5°	1887.8	1823.1	1758.4	1693.7	1628.9	1658.6	1688.1	1717.7	1747.2	1802.8	1858.3
55°	1957.0	1895.0	1833.2	1771.3	1709.4	1738.3	1767.0	1795.8	1824.5	1886.4	1948.2
57.5°	2048.7	1982.4	1916.1	1849.8	1783.5	1810.1	1836.6	1863.1	1889.6	1948.3	2007.1
60°	2153.2	2081.1	2008.9	1936.7	1864.6	1871.9	1879.2	1886.5	1893.7	1957.4	2021.0
62.5°	2204.4	2137.7	2071.0	2004.3	1937.5	1917.1	1896.6	1876.1	1855.7	1912.7	1969.6
65°	2160.0	2114.0	2068.2	2022.3	1976.4	1940.3	1904.4	1868.3	1832.3	1867.9	1903.5
67.5°	2018.4	1992.4	1966.5	1940.4	1914.4	1853.9	1793.4	1732.8	1672.3	1674.7	1677.0
70°	1789.0	1782.1	1775.3	1768.3	1761.4	1670.4	1579.6	1488.7	1397.8	1383.9	1370.0
72.5°	1498.3	1502.9	1507.3	1511.8	1516.4	1418.6	1320.9	1223.1	1125.4	1102.3	1079.2
75°	1160.5	1185.6	1210.7	1235.9	1261.0	1167.6	1074.1	980.5	887.0	858.6	830.2
77.5°	820.0	866.9	913.6	960.5	1007.3	922.8	838.4	753.9	669.4	651.0	632.5
80°	571.8	594.7	617.7	640.7	663.6	621.2	578.7	536.3	493.8	498.9	503.8
82.5°	416.5	421.8	427.0	432.4	437.7	420.3	403.0	385.5	368.1	381.4	394.6
85°	266.8	285.9	304.8	323.9	342.9	323.7	304.4	285.1	265.9	274.7	283.5
87.5°	59.7	94.4	129.1	164.0	198.7	180.0	161.4	142.7	124.0	115.6	107.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	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: P366722

CATALOG NUMBER: MSA-SA1A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	338.4	345.4	343.3	341.3	339.2	337.0	340.9	344.8	348.8	352.7	351.3
5°	467.1	468.4	455.7	443.2	430.5	417.8	425.7	433.6	441.4	449.3	446.5
7.5°	550.1	543.5	536.1	528.8	521.3	514.0	512.4	510.7	509.0	507.4	505.3
10°	616.9	621.6	616.8	612.1	607.3	602.5	591.3	580.1	568.7	557.5	552.8
12.5°	669.1	674.3	675.5	676.6	677.8	679.0	666.4	654.0	641.5	628.9	617.6
15°	669.8	674.2	678.1	681.8	685.7	689.4	681.7	674.1	666.3	658.6	655.0
17.5°	686.2	687.0	683.8	680.7	677.5	674.5	671.4	668.4	665.4	662.4	656.7
20°	676.9	678.7	678.3	677.9	677.4	677.0	677.3	677.4	677.7	677.8	674.6
22.5°	681.7	673.3	675.0	676.6	678.3	679.9	684.7	689.5	694.5	699.3	712.1
25°	718.5	700.2	697.4	694.8	691.9	689.3	701.8	714.2	726.8	739.4	760.2
27.5°	694.5	665.5	659.1	652.7	646.3	639.9	659.0	677.9	697.0	716.1	737.3
30°	717.7	688.2	674.1	659.9	645.6	631.5	649.8	667.9	686.2	704.4	727.9
32.5°	743.0	722.9	713.4	704.1	694.6	685.3	686.7	688.2	689.7	691.1	724.3
35°	782.2	751.9	742.6	733.2	723.9	714.5	730.1	745.6	761.2	776.7	804.8
37.5°	899.2	882.5	865.7	848.8	831.9	815.1	824.3	833.5	842.7	851.9	878.4
40°	998.7	970.5	967.7	965.0	962.2	959.4	960.2	960.9	961.7	962.5	985.0
42.5°	1175.5	1152.2	1137.9	1123.6	1109.4	1095.1	1094.1	1093.2	1092.1	1091.2	1108.2
45°	1367.3	1350.1	1339.4	1328.7	1317.9	1307.3	1290.3	1273.3	1256.2	1239.3	1254.1
47.5°	1534.5	1535.5	1554.8	1574.0	1593.4	1612.8	1583.8	1554.8	1525.8	1496.9	1477.8
50°	1757.8	1797.3	1802.0	1806.5	1811.2	1815.9	1766.7	1717.7	1668.6	1619.4	1599.4
52.5°	1914.0	1969.6	1962.3	1955.3	1948.1	1940.8	1912.4	1884.1	1855.7	1827.2	1783.5
55°	2010.1	2072.0	2066.5	2061.2	2055.7	2050.2	2029.5	2008.8	1988.1	1967.4	1919.5
57.5°	2065.8	2124.6	2126.2	2127.8	2129.4	2131.0	2125.5	2120.0	2114.6	2109.1	2046.7
60°	2084.7	2148.4	2149.0	2149.6	2150.2	2150.8	2142.1	2133.4	2124.6	2115.9	2075.2
62.5°	2026.6	2083.5	2086.0	2088.4	2090.9	2093.5	2087.5	2081.5	2075.4	2069.4	2039.3
65°	1939.1	1974.8	1975.4	1976.0	1976.6	1977.3	1962.1	1947.0	1931.8	1916.5	1909.3
67.5°	1679.4	1681.8	1696.0	1710.1	1724.3	1738.4	1739.6	1740.8	1742.2	1743.4	1732.9
70°	1356.1	1342.2	1357.6	1372.9	1388.3	1403.7	1410.2	1416.7	1423.4	1430.0	1434.8
72.5°	1055.9	1032.8	1044.2	1055.5	1067.0	1078.4	1068.6	1058.9	1049.1	1039.4	1070.2
75°	801.7	773.3	771.8	770.5	769.0	767.7	762.7	757.8	752.7	747.8	776.6
77.5°	614.0	595.5	596.5	597.3	598.2	599.0	593.9	589.0	583.9	578.8	589.9
80°	508.9	513.8	514.0	514.1	514.2	514.4	509.5	504.9	500.1	495.3	487.2
82.5°	407.9	421.2	421.0	421.0	420.9	420.8	420.5	420.2	419.8	419.5	406.5
85°	292.3	301.1	292.0	282.9	273.9	264.8	271.5	278.1	285.0	291.6	286.2
87.5°	98.9	90.7	79.9	69.2	58.4	47.5	59.2	70.8	82.5	94.1	100.8
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: P366722  
 CATALOG NUMBER: MSA-SA1A-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: P366722

CATALOG NUMBER: MSA-SA1A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	350.1	348.8	347.6	339.2	330.6	322.2	313.7	329.1	344.8	360.3	375.8
5°	443.9	441.0	438.4	437.7	437.0	436.2	435.6	443.5	451.3	459.1	467.0
7.5°	503.1	501.0	498.9	493.3	487.8	482.2	476.6	481.4	486.0	490.9	495.5
10°	548.3	543.6	538.9	526.8	514.8	502.6	490.5	486.8	483.2	479.6	476.0
12.5°	606.2	594.7	583.4	569.6	555.7	542.0	528.1	526.2	524.4	522.6	520.8
15°	651.5	647.9	644.3	633.3	622.4	611.4	600.5	585.8	571.0	556.3	541.6
17.5°	651.1	645.3	639.7	654.4	669.0	683.7	698.2	682.6	666.8	651.2	635.6
20°	671.4	668.0	664.8	691.9	718.9	746.0	773.0	764.5	755.8	747.2	738.5
22.5°	724.8	737.6	750.3	773.5	796.6	819.9	843.0	852.7	862.5	872.2	882.0
25°	780.9	801.7	822.5	857.1	891.6	926.2	960.7	967.7	974.6	981.6	988.5
27.5°	758.4	779.7	800.9	827.1	853.1	879.3	905.3	935.8	966.4	996.8	1027.2
30°	751.2	774.7	798.1	834.0	869.8	905.7	941.6	983.6	1025.5	1067.3	1109.2
32.5°	757.2	790.4	823.5	872.1	920.5	969.2	1017.8	1061.8	1106.0	1150.1	1194.2
35°	832.7	860.7	888.6	943.0	997.3	1051.7	1106.0	1157.7	1209.4	1260.9	1312.6
37.5°	904.7	931.1	957.5	1013.1	1068.5	1124.0	1179.6	1261.2	1342.9	1424.5	1506.1
40°	1007.5	1030.0	1052.5	1100.0	1147.5	1195.1	1242.6	1341.0	1439.4	1537.9	1636.3
42.5°	1125.0	1141.9	1158.8	1208.0	1257.3	1306.6	1355.9	1462.9	1570.2	1677.3	1784.3
45°	1268.8	1283.6	1298.4	1332.4	1366.3	1400.3	1434.2	1544.7	1655.1	1765.5	1876.0
47.5°	1458.7	1439.6	1420.5	1437.2	1453.9	1470.6	1487.2	1596.5	1705.7	1814.8	1924.0
50°	1579.4	1559.4	1539.3	1540.8	1542.1	1543.6	1545.1	1646.9	1748.8	1850.6	1952.5
52.5°	1739.9	1696.1	1652.4	1652.0	1651.6	1651.1	1650.7	1739.5	1828.4	1917.2	2006.0
55°	1871.5	1823.6	1775.7	1766.3	1757.0	1747.5	1738.1	1826.0	1913.7	2001.6	2089.3
57.5°	1984.4	1921.9	1859.5	1844.8	1830.2	1815.5	1800.8	1895.4	1990.3	2084.9	2179.6
60°	2034.6	1993.9	1953.3	1935.2	1917.2	1899.2	1881.2	1961.8	2042.5	2123.0	2203.6
62.5°	2009.2	1979.0	1949.0	1953.1	1957.3	1961.4	1965.5	2011.6	2057.8	2103.9	2150.0
65°	1902.3	1895.0	1888.0	1921.4	1954.7	1988.1	2021.5	2022.2	2022.8	2023.5	2024.2
67.5°	1722.5	1712.1	1701.7	1771.1	1840.4	1909.9	1979.3	1946.3	1913.3	1880.5	1847.5
70°	1439.4	1444.3	1448.9	1543.5	1637.9	1732.4	1826.9	1779.1	1731.2	1683.4	1635.5
72.5°	1101.1	1132.1	1162.9	1260.9	1358.9	1456.9	1554.9	1500.3	1445.6	1391.0	1336.2
75°	805.4	834.3	863.1	959.9	1056.7	1153.7	1250.5	1185.6	1120.7	1055.9	991.1
77.5°	601.0	612.2	623.3	703.8	784.2	864.7	945.1	880.0	814.8	749.8	684.6
80°	479.4	471.4	463.5	508.1	552.7	597.3	641.9	595.7	549.3	503.1	456.9
82.5°	393.5	380.4	367.5	384.0	400.6	417.3	433.8	396.8	359.9	322.9	285.9
85°	280.7	275.2	269.7	274.5	279.2	284.0	288.8	252.8	216.7	180.8	144.7
87.5°	107.4	114.0	120.7	128.3	135.8	143.4	150.9	118.2	85.5	52.9	20.2
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



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**CANDELA DISTRIBUTION (continued):**

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





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**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	290.2	290.2
2.5°	382.2	388.6
5°	466.8	466.7
7.5°	493.4	491.1
10°	470.2	464.3
12.5°	503.4	485.9
15°	524.2	506.7
17.5°	609.3	582.9
20°	707.2	675.7
22.5°	834.0	786.1
25°	931.2	873.8
27.5°	993.2	959.0
30°	1070.1	1031.0
32.5°	1165.3	1136.3
35°	1286.2	1259.6
37.5°	1497.8	1489.4
40°	1626.3	1616.1
42.5°	1784.8	1785.0
45°	1882.0	1888.0
47.5°	1939.2	1954.3
50°	1984.9	2017.2
52.5°	2050.2	2094.4
55°	2148.1	2206.7
57.5°	2229.5	2279.5
60°	2229.5	2255.3
62.5°	2149.3	2148.5
65°	2011.7	1999.2
67.5°	1831.8	1816.0
70°	1610.9	1586.2
72.5°	1305.6	1274.9
75°	949.0	906.8
77.5°	664.6	644.4
80°	466.7	476.4
82.5°	299.8	313.7
85°	142.6	140.5
87.5°	16.8	13.5
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

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**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)