

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: P367117

Luminaire Tested: **MSA-SA1D-830-U-SLR-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-25)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA1D-830-U-SLR-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3975 lumens
Efficiency: N/A
Efficacy: 59.3 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

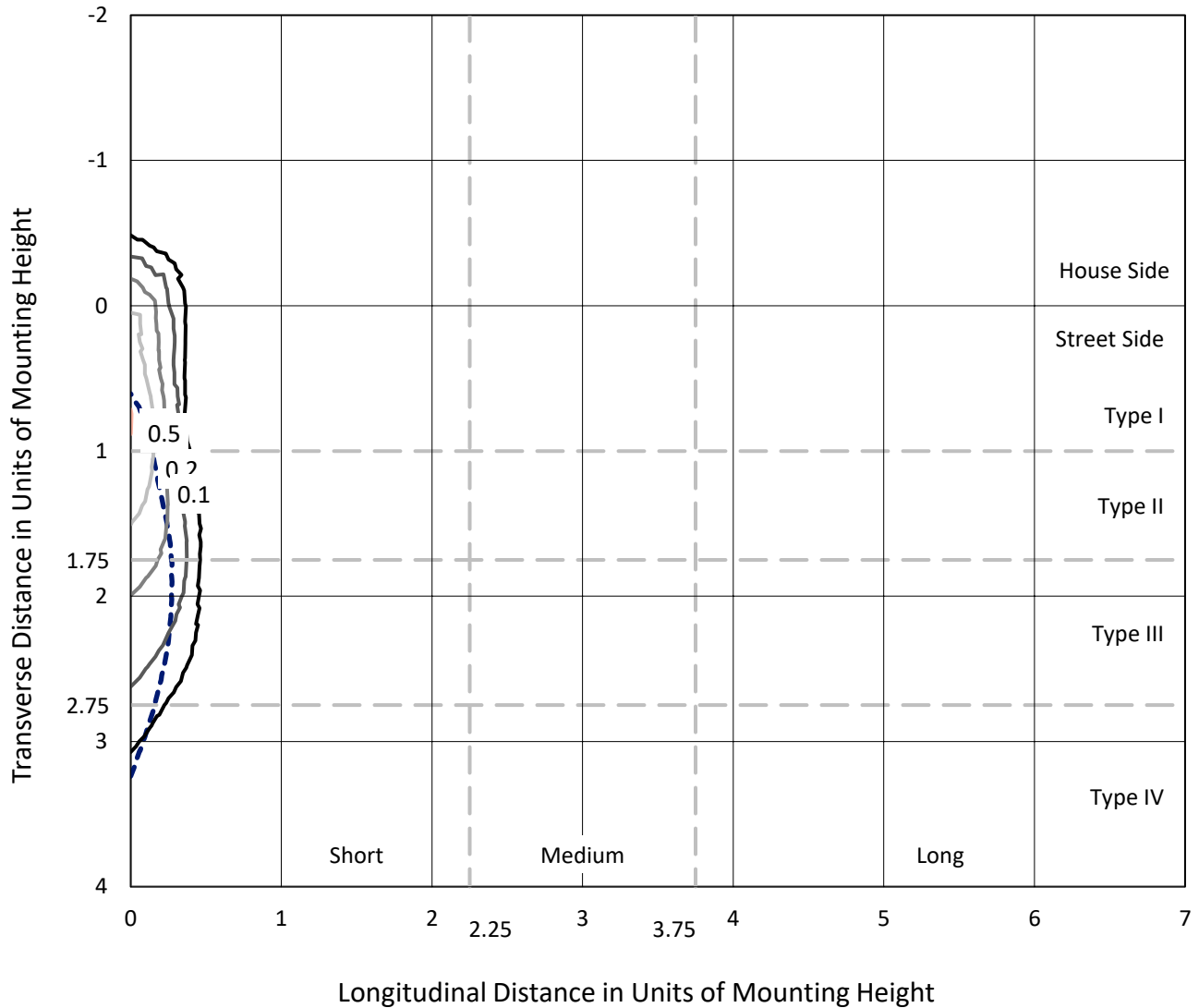
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

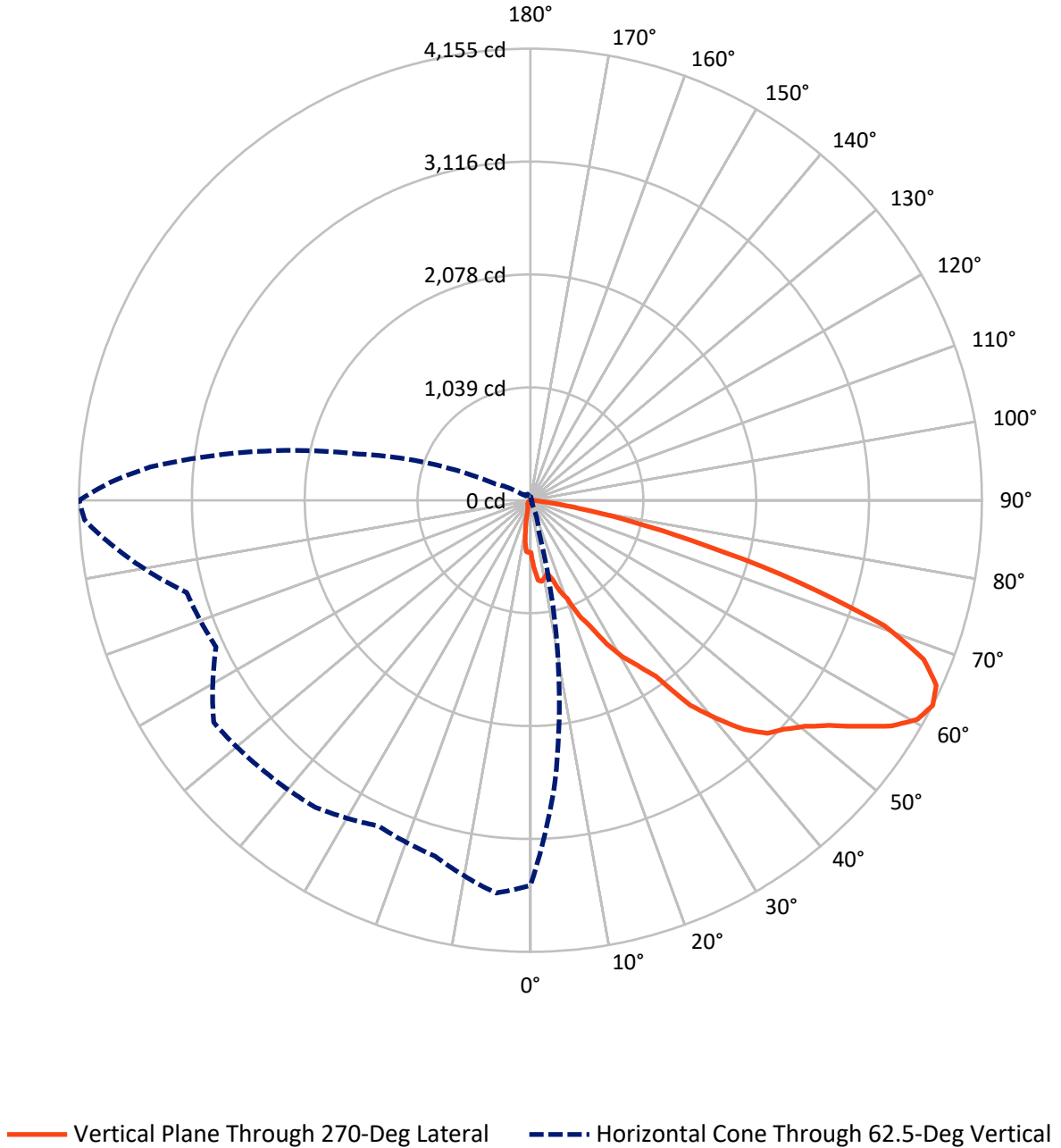
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	663.8	0.0	663.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	3311.2	0.0	3311.2
	% Fixture	83.3	0.0	83.3
Total	Lumens	3975.0	0.0	3975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.3
10°-20°	139.8	3.5
20°-30°	226.0	5.7
30°-40°	378.5	9.5
40°-50°	618.7	15.6
50°-60°	915.9	23.0
60°-70°	1051.4	26.5
70°-80°	519.9	13.1
80°-90°	71.4	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3975.0	100.0
0°-180°	3975.0	100.0

Coefficient of Utilization

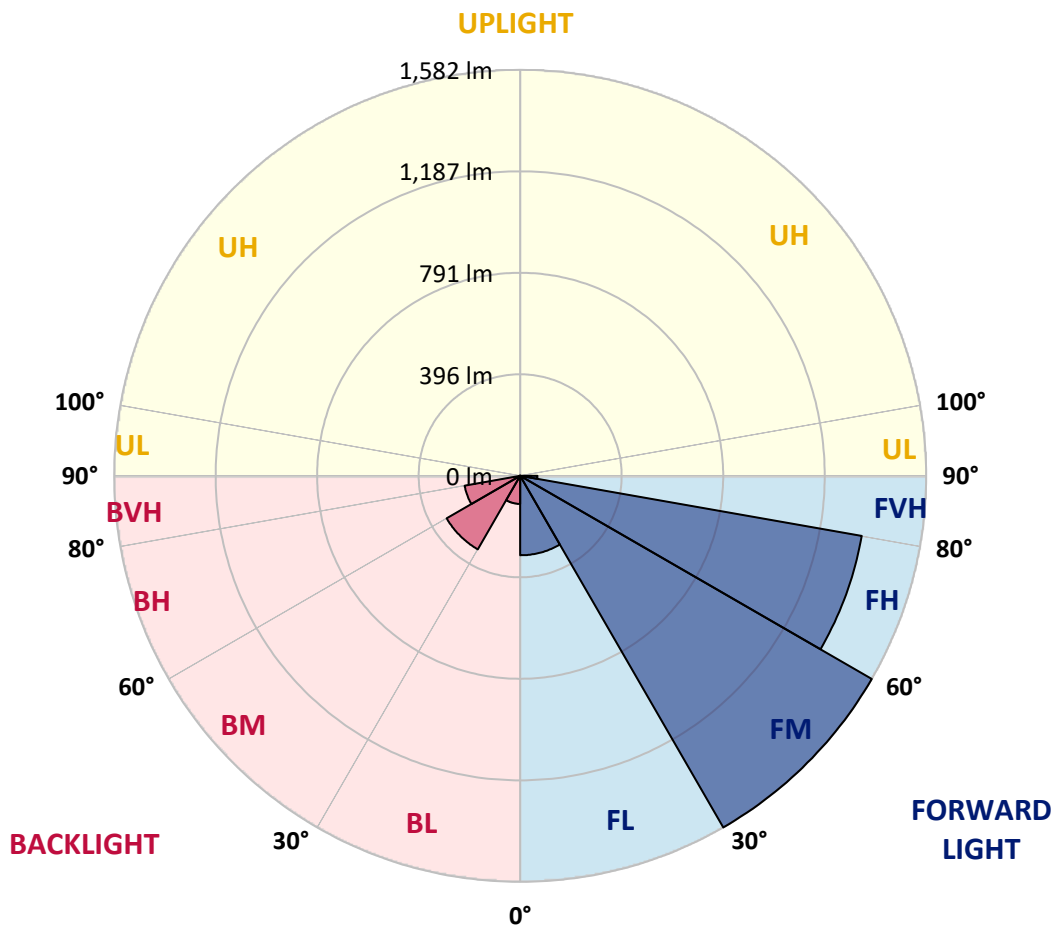


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.7	7.8			
FM (30°-60°)	1582.3	39.8			
FH (60°-80°)	1351.7	34.0			G1/1800
FVH (80°-90°)	67.6	1.7			G1/100
BL (0°-30°)	109.6	2.8	B0/110		
BM (30°-60°)	330.8	8.3	B1/1000		
BH (60°-80°)	219.6	5.5	B1/500		G1/500
BVH (80°-90°)	3.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-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°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	635.1	643.1	650.8	636.0	621.3	606.6	591.8	578.7	565.6	552.2	539.1
5°	817.3	802.8	788.3	768.4	748.4	728.5	708.5	699.2	690.0	680.7	671.4
7.5°	880.7	854.9	828.9	811.2	793.7	776.1	758.4	730.5	702.4	674.6	646.5
10°	830.9	803.5	775.8	760.4	745.0	729.6	714.2	679.5	644.6	610.0	575.1
12.5°	853.8	824.1	794.4	762.7	731.0	699.2	667.5	641.0	614.3	587.8	561.0
15°	869.6	835.7	801.4	765.2	728.9	692.7	656.4	625.2	594.1	562.8	531.6
17.5°	962.8	914.1	865.3	809.6	753.9	698.1	642.4	606.1	570.1	533.8	497.6
20°	1082.4	1013.3	944.0	868.5	793.1	717.6	642.1	597.1	552.0	506.9	461.8
22.5°	1221.5	1135.2	1048.6	955.5	862.6	769.5	676.4	611.6	546.8	482.0	417.1
25°	1361.6	1283.6	1205.7	1080.4	955.1	829.5	704.2	622.0	539.5	457.3	374.8
27.5°	1614.4	1475.1	1335.7	1176.2	1016.9	857.4	697.9	603.6	509.4	414.9	320.6
30°	1779.8	1672.7	1565.3	1354.5	1144.0	933.3	722.6	603.2	483.8	364.1	244.7
32.5°	1977.7	1820.9	1663.8	1435.2	1206.6	978.0	749.3	609.1	468.6	328.3	187.8
35°	2199.9	2029.3	1858.7	1569.1	1279.5	989.7	700.2	564.2	428.3	292.3	156.3
37.5°	2592.6	2307.1	2021.6	1684.0	1346.2	1008.5	670.7	535.0	399.0	263.3	127.3
40°	2815.6	2543.0	2270.4	1848.5	1426.6	1004.7	582.8	462.2	341.9	221.4	100.8
42.5°	3105.6	2759.8	2413.8	1942.3	1470.8	999.3	527.7	416.2	304.8	193.1	81.6
45°	3277.6	2885.8	2494.0	1983.1	1472.1	961.2	450.2	353.7	257.2	160.7	64.1
47.5°	3386.1	2993.2	2600.3	2051.8	1503.4	954.8	406.3	317.4	228.6	139.8	51.0
50°	3441.2	3047.1	2652.9	2089.1	1525.4	961.4	397.7	309.3	220.7	132.3	43.7
52.5°	3498.5	3118.5	2738.3	2153.9	1569.6	985.2	400.8	310.7	220.7	130.5	40.3
55°	3614.3	3239.5	2864.5	2246.8	1629.2	1011.5	393.8	305.0	216.2	127.1	38.3
57.5°	3756.6	3356.0	2955.2	2314.8	1674.5	1034.1	393.8	304.5	215.3	125.8	36.5
60°	3729.6	3294.8	2859.8	2238.5	1617.2	995.6	374.3	289.4	204.6	119.6	34.7
62.5°	3544.5	3072.5	2600.3	2026.1	1451.7	877.6	303.2	235.4	167.7	99.7	31.9
65°	3327.0	2826.0	2324.8	1796.4	1267.8	739.4	210.7	165.4	119.9	74.5	29.0
67.5°	3065.1	2530.8	1996.5	1526.5	1056.8	586.9	116.9	94.3	71.6	48.7	26.1
70°	2610.5	2059.0	1507.3	1146.1	785.1	423.9	62.8	53.0	43.3	33.5	23.8
72.5°	1959.8	1454.5	949.2	721.0	493.1	264.9	36.7	33.1	29.2	25.6	21.8
75°	1333.5	954.8	576.2	438.7	301.4	163.8	26.3	24.5	22.4	20.6	18.6
77.5°	906.6	655.7	404.9	309.1	213.2	117.4	21.5	20.4	19.3	17.9	16.8
80°	566.0	387.5	208.9	160.9	112.6	64.6	16.3	15.6	15.0	14.0	13.4
82.5°	395.8	236.8	77.7	60.7	43.7	26.5	9.5	9.7	10.0	10.0	10.2
85°	166.1	89.7	13.4	11.3	9.3	7.3	5.2	5.7	6.3	6.8	7.3
87.5°	2.9	1.6	0.0	0.5	1.1	1.6	2.0	2.7	3.2	3.9	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	542.5	545.8	549.0	552.4	549.7	547.2	544.5	541.8	537.7	533.8	529.8
5°	660.0	648.7	637.4	626.1	608.8	591.6	574.2	557.0	554.9	552.9	550.6
7.5°	619.9	593.4	566.7	540.2	515.3	490.3	465.4	440.5	432.8	425.3	417.6
10°	554.7	534.3	513.7	493.3	475.4	457.3	439.4	421.2	402.4	383.6	364.6
12.5°	539.7	518.4	496.9	475.6	459.3	443.0	426.7	410.4	389.3	368.2	347.1
15°	508.5	485.4	462.2	439.1	417.4	395.6	373.6	351.9	326.5	301.1	275.8
17.5°	470.2	443.0	415.6	388.1	359.6	331.0	302.5	273.9	244.7	215.7	186.5
20°	424.6	387.5	350.1	312.9	277.6	242.2	206.6	171.3	152.9	134.8	116.5
22.5°	369.1	320.8	272.8	224.5	195.5	166.3	137.3	108.1	100.2	92.2	84.3
25°	320.2	265.6	211.0	156.3	138.0	119.6	101.3	82.9	79.3	75.5	71.8
27.5°	269.2	218.0	166.5	115.1	104.7	94.0	83.6	73.0	70.5	68.2	65.7
30°	206.4	168.1	129.6	91.3	84.5	77.7	70.7	63.9	62.8	61.4	60.3
32.5°	160.0	131.9	104.0	75.9	72.1	68.2	64.4	60.5	58.7	56.9	54.8
35°	133.7	111.3	88.6	65.9	63.2	60.3	57.6	54.6	52.8	50.8	48.9
37.5°	110.8	94.5	77.9	61.4	58.5	55.5	52.3	49.4	48.0	46.7	45.3
40°	91.3	81.8	72.3	62.8	58.5	54.2	49.8	45.5	44.4	43.3	42.1
42.5°	75.5	69.3	63.0	56.9	53.7	50.8	47.6	44.4	42.8	41.0	39.4
45°	61.0	57.6	54.4	51.0	51.2	51.4	51.4	51.7	47.6	43.3	39.2
47.5°	49.4	47.8	46.0	44.4	46.2	48.0	49.6	51.4	47.1	42.8	38.3
50°	42.4	41.2	39.9	38.5	40.3	42.4	44.2	46.0	44.2	42.6	40.8
52.5°	38.7	37.2	35.6	34.0	34.7	35.6	36.3	36.9	36.9	36.9	36.9
55°	36.5	34.9	33.1	31.3	30.6	29.7	29.0	28.1	27.0	26.1	24.9
57.5°	34.7	32.9	30.8	29.0	27.9	26.5	25.4	24.0	22.9	21.5	20.4
60°	32.9	31.0	29.0	27.2	26.1	24.9	23.6	22.4	21.1	19.9	18.6
62.5°	30.4	28.8	27.2	25.6	24.5	23.6	22.4	21.3	19.9	18.6	17.0
65°	27.6	26.5	25.2	23.8	22.7	21.5	20.4	19.3	17.9	16.8	15.4
67.5°	25.2	24.0	23.1	22.0	20.6	19.5	18.1	16.8	15.9	15.0	13.8
70°	23.1	22.2	21.5	20.6	19.3	18.1	16.8	15.4	14.7	13.8	13.1
72.5°	21.1	20.4	19.5	18.8	17.7	16.5	15.4	14.3	13.6	12.9	12.2
75°	18.1	17.7	17.2	16.8	15.6	14.5	13.1	12.0	11.8	11.6	11.3
77.5°	16.3	16.1	15.6	15.2	14.0	12.9	11.8	10.6	10.9	11.1	11.1
80°	13.4	13.4	13.1	13.1	12.2	11.3	10.2	9.3	9.7	10.4	10.9
82.5°	10.2	10.2	10.2	10.2	9.3	8.4	7.5	6.6	7.3	7.7	8.4
85°	7.0	6.8	6.6	6.3	5.7	5.2	4.5	3.9	4.8	5.4	6.3
87.5°	4.3	4.5	4.5	4.5	4.1	3.4	2.9	2.3	2.7	2.9	3.4
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):

	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: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	525.7	518.9	512.1	505.1	498.3	482.4	466.5	450.7	434.8	446.6	458.2
5°	548.6	535.4	522.1	508.9	495.5	489.7	484.0	478.1	472.2	473.1	474.2
7.5°	409.9	401.3	392.7	383.8	375.2	373.4	371.8	370.0	368.2	372.1	375.7
10°	345.8	333.8	321.5	309.5	297.3	290.7	284.1	277.6	271.0	270.3	269.4
12.5°	326.1	307.7	289.6	271.2	252.9	238.6	224.3	210.0	195.8	196.9	198.0
15°	250.4	232.0	213.9	195.5	177.2	165.6	153.9	142.3	130.5	127.1	123.7
17.5°	157.3	143.7	130.1	116.2	102.6	98.8	95.2	91.3	87.5	86.3	85.2
20°	98.1	92.2	86.3	80.2	74.3	73.4	72.5	71.6	70.7	71.4	72.1
22.5°	76.4	73.9	71.1	68.7	65.9	65.0	64.1	63.2	62.3	63.0	63.4
25°	68.0	66.2	64.4	62.5	60.7	59.8	58.7	57.8	56.6	57.1	57.8
27.5°	63.2	61.6	60.0	58.5	56.9	55.3	53.9	52.3	50.8	51.7	52.3
30°	58.9	57.1	55.5	53.7	51.9	50.3	48.7	46.9	45.3	46.2	47.1
32.5°	53.0	51.4	49.6	48.0	46.2	45.3	44.4	43.3	42.4	43.1	43.5
35°	46.9	45.5	44.4	43.1	41.7	40.8	40.1	39.2	38.3	38.5	39.0
37.5°	44.0	42.4	40.8	39.2	37.6	37.2	36.7	36.0	35.6	35.6	35.6
40°	41.0	39.4	37.8	36.0	34.4	33.8	33.1	32.4	31.7	31.7	31.7
42.5°	37.6	36.0	34.4	32.9	31.3	30.6	29.7	29.0	28.1	28.1	28.1
45°	34.9	33.3	31.9	30.4	28.8	27.6	26.5	25.2	24.0	23.8	23.6
47.5°	34.0	31.7	29.5	27.2	24.9	23.8	22.7	21.3	20.2	19.9	19.7
50°	39.0	34.4	29.9	25.4	20.8	19.9	19.0	18.1	17.2	16.8	16.5
52.5°	36.9	32.2	27.4	22.7	17.9	17.2	16.5	15.9	15.2	14.7	14.3
55°	23.8	21.8	19.9	17.9	15.9	15.4	15.0	14.3	13.8	13.4	12.9
57.5°	19.0	17.9	17.0	15.9	14.7	14.3	13.8	13.1	12.7	12.0	11.6
60°	17.2	16.3	15.4	14.5	13.6	13.1	12.7	12.2	11.8	11.1	10.6
62.5°	15.6	15.0	14.3	13.6	12.9	12.5	12.0	11.6	11.1	10.4	9.7
65°	14.0	13.6	13.1	12.7	12.2	11.8	11.3	10.6	10.2	9.5	8.8
67.5°	12.9	12.7	12.5	12.2	12.0	11.6	10.9	10.4	9.7	9.1	8.2
70°	12.2	12.2	12.2	12.0	12.0	11.6	10.9	10.4	9.7	8.8	8.2
72.5°	11.6	11.8	12.0	12.0	12.2	11.6	10.9	10.2	9.5	8.6	7.9
75°	11.1	11.3	11.6	11.6	11.8	11.3	10.9	10.2	9.7	8.8	7.9
77.5°	11.3	11.6	11.6	11.8	11.8	11.3	10.9	10.2	9.7	8.6	7.5
80°	11.3	11.1	10.9	10.4	10.2	9.3	8.4	7.3	6.3	5.0	3.9
82.5°	8.8	8.4	8.2	7.7	7.3	6.3	5.4	4.5	3.6	2.7	1.8
85°	7.0	6.6	6.3	5.9	5.4	4.8	3.9	3.2	2.3	1.8	1.1
87.5°	3.6	3.4	2.9	2.7	2.3	1.8	1.1	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	469.9	481.5	479.9	478.3	485.8	493.3	487.8	482.6	477.2	471.8	460.4
5°	475.2	476.1	474.5	472.7	472.9	473.1	469.5	465.9	462.2	458.6	457.9
7.5°	379.5	383.2	388.1	392.9	393.1	393.1	390.4	387.7	384.7	382.0	383.4
10°	268.7	267.8	269.2	270.5	270.3	269.9	277.1	284.4	291.4	298.6	293.4
12.5°	198.9	200.1	194.4	188.7	190.8	192.6	193.7	194.9	196.0	197.1	200.3
15°	120.3	116.9	112.8	108.8	110.8	112.6	114.7	116.5	118.5	120.3	122.4
17.5°	83.8	82.7	80.9	78.9	79.1	79.3	79.5	79.8	79.8	80.0	80.4
20°	72.7	73.4	72.1	70.5	70.0	69.3	68.9	68.4	67.7	67.3	66.6
22.5°	64.1	64.6	64.8	64.8	63.9	62.8	61.9	61.2	60.3	59.4	58.9
25°	58.2	58.7	58.2	57.6	57.1	56.6	56.2	55.5	55.1	54.4	54.2
27.5°	53.2	53.9	53.9	53.7	53.2	52.6	51.4	50.5	49.4	48.3	48.5
30°	48.0	48.9	48.9	48.7	48.5	48.3	47.1	46.0	44.9	43.7	44.2
32.5°	44.2	44.6	44.4	44.2	44.2	44.0	43.1	42.4	41.5	40.6	40.6
35°	39.2	39.4	39.4	39.4	39.4	39.2	38.5	37.8	37.2	36.5	36.7
37.5°	35.6	35.6	36.3	36.7	36.3	35.8	35.3	34.7	34.2	33.5	33.5
40°	31.5	31.5	32.2	32.6	32.2	31.7	31.5	31.0	30.8	30.4	30.4
42.5°	27.9	27.9	28.6	29.0	29.0	28.8	28.3	27.9	27.4	27.0	27.2
45°	23.3	23.1	24.2	25.2	24.7	24.2	24.2	24.0	24.0	23.8	24.0
47.5°	19.3	19.0	19.9	20.8	20.6	20.2	20.2	20.2	20.2	20.2	20.4
50°	16.1	15.6	16.5	17.2	17.0	16.5	16.5	16.8	16.8	16.8	17.0
52.5°	13.8	13.4	14.0	14.5	14.3	14.0	14.0	14.3	14.3	14.3	14.5
55°	12.2	11.8	12.5	12.9	12.7	12.2	12.5	12.5	12.7	12.7	12.7
57.5°	10.9	10.2	10.6	11.1	11.1	10.9	11.1	11.1	11.3	11.3	11.3
60°	10.0	9.3	9.7	10.0	10.0	9.7	10.0	10.0	10.2	10.2	10.2
62.5°	8.8	8.2	8.6	8.8	8.8	8.6	8.8	8.8	9.1	9.1	9.1
65°	7.9	7.3	7.5	7.7	7.7	7.7	7.9	7.9	8.2	8.2	8.2
67.5°	7.5	6.6	6.8	7.0	7.0	7.0	7.3	7.3	7.5	7.5	7.7
70°	7.3	6.3	6.6	6.6	6.8	6.8	6.8	7.0	7.0	7.0	7.0
72.5°	7.0	6.1	6.1	6.1	6.3	6.3	6.3	6.6	6.6	6.6	6.6
75°	7.0	6.1	5.9	5.7	5.9	5.9	5.9	6.1	6.1	6.1	6.1
77.5°	6.1	5.0	4.5	3.9	4.5	5.0	5.2	5.2	5.4	5.4	5.4
80°	2.5	1.1	0.7	0.0	0.2	0.5	0.7	0.9	1.1	1.4	1.6
82.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	449.1	437.8	426.4	431.9	437.3	442.8	448.2	447.7	447.1	446.6	445.9
5°	457.5	456.8	456.1	452.9	450.0	446.8	443.7	443.0	442.1	441.4	440.5
7.5°	384.7	385.9	387.2	383.6	380.0	376.4	372.7	363.4	354.2	344.6	335.3
10°	288.2	282.8	277.6	277.1	276.7	276.2	275.8	274.9	273.9	272.8	271.9
12.5°	203.7	206.9	210.0	208.9	207.8	206.4	205.3	206.9	208.7	210.3	211.9
15°	124.2	126.2	128.0	132.1	136.2	140.3	144.3	145.9	147.7	149.3	150.9
17.5°	80.9	81.1	81.6	86.1	90.4	94.9	99.2	102.2	105.1	107.9	110.8
20°	65.9	65.3	64.6	67.1	69.6	72.1	74.5	77.3	80.0	82.7	85.4
22.5°	58.7	58.2	57.8	58.7	59.6	60.3	61.2	63.2	65.5	67.5	69.6
25°	53.9	53.5	53.2	53.7	54.2	54.6	55.1	56.2	57.3	58.5	59.6
27.5°	48.5	48.7	48.7	49.2	49.4	49.8	50.1	50.5	51.2	51.7	52.1
30°	44.4	44.9	45.1	45.5	45.8	46.2	46.5	46.2	46.0	45.8	45.5
32.5°	40.6	40.3	40.3	40.8	41.0	41.5	41.7	42.1	42.6	42.8	43.3
35°	36.7	36.9	36.9	36.9	37.2	37.2	37.2	37.6	38.3	38.7	39.2
37.5°	33.3	33.3	33.1	33.8	34.2	34.9	35.3	35.8	36.5	36.9	37.4
40°	30.4	30.4	30.4	30.8	31.3	31.5	31.9	33.1	34.2	35.3	36.5
42.5°	27.2	27.4	27.4	27.9	28.3	28.6	29.0	29.9	30.6	31.5	32.2
45°	24.2	24.5	24.7	25.2	25.4	25.8	26.1	26.5	26.7	27.2	27.4
47.5°	20.8	21.1	21.3	21.8	22.0	22.4	22.7	22.4	22.4	22.2	22.0
50°	17.4	17.7	17.9	18.6	19.0	19.7	20.2	19.7	19.3	18.6	18.1
52.5°	14.7	14.7	15.0	15.4	15.9	16.1	16.5	16.3	16.1	15.9	15.6
55°	12.7	12.7	12.7	12.9	13.1	13.4	13.6	13.8	13.8	14.0	14.0
57.5°	11.3	11.1	11.1	11.3	11.6	11.6	11.8	12.0	12.0	12.2	12.2
60°	10.2	10.0	10.0	10.2	10.4	10.6	10.9	10.9	10.9	10.6	10.6
62.5°	9.1	9.1	9.1	9.3	9.3	9.5	9.5	9.5	9.7	9.7	9.7
65°	8.4	8.4	8.4	8.4	8.4	8.2	8.2	8.4	8.4	8.6	8.6
67.5°	7.7	7.9	7.9	7.7	7.5	7.3	7.0	7.3	7.3	7.5	7.5
70°	7.0	7.0	7.0	6.8	6.6	6.3	6.1	6.1	6.1	5.9	5.9
72.5°	6.6	6.3	6.3	6.1	5.7	5.4	5.0	4.8	4.8	4.5	4.3
75°	6.1	5.9	5.9	5.4	5.0	4.5	4.1	3.9	3.4	3.2	2.7
77.5°	5.4	5.4	5.4	4.8	4.3	3.6	2.9	2.5	2.0	1.4	0.9
80°	1.8	2.0	2.3	2.0	2.0	1.8	1.6	1.1	0.9	0.5	0.0
82.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	448.4	450.9	453.4	455.9	456.1	456.3	456.6	456.8	451.1	445.2	439.6
5°	445.0	449.8	454.3	458.8	456.3	453.9	451.4	448.9	448.6	448.6	448.4
7.5°	336.0	336.5	337.2	337.6	338.5	339.4	340.1	341.0	344.6	348.3	351.7
10°	269.0	266.0	262.8	259.9	257.6	255.1	252.9	250.4	252.2	254.2	256.0
12.5°	209.4	206.9	204.2	201.7	200.8	199.9	198.7	197.8	203.7	209.6	215.3
15°	150.5	150.0	149.3	148.9	151.8	154.8	157.7	160.7	165.6	170.4	175.4
17.5°	111.9	113.1	114.2	115.3	117.1	119.0	120.5	122.4	126.0	129.8	133.5
20°	86.8	88.4	89.7	91.1	90.6	90.2	89.5	89.0	92.0	94.9	97.7
22.5°	70.9	72.1	73.4	74.5	74.8	75.0	75.2	75.5	77.3	78.9	80.7
25°	60.7	62.1	63.2	64.4	64.6	64.8	65.0	65.3	67.5	69.8	71.8
27.5°	53.7	55.1	56.6	58.0	58.5	58.9	59.4	59.8	61.2	62.3	63.7
30°	47.4	49.2	51.0	52.8	53.5	54.2	54.8	55.5	56.9	58.5	59.8
32.5°	44.2	45.3	46.2	47.1	48.7	50.1	51.7	53.0	54.6	56.4	58.0
35°	40.6	41.7	43.1	44.2	45.3	46.5	47.4	48.5	49.4	50.3	51.0
37.5°	38.3	39.4	40.3	41.2	41.7	42.1	42.4	42.8	43.3	43.7	44.0
40°	36.5	36.3	36.3	36.0	36.5	37.2	37.6	38.1	39.4	40.6	41.9
42.5°	31.7	31.0	30.6	29.9	31.0	31.9	33.1	34.0	35.8	37.6	39.4
45°	27.0	26.5	25.8	25.4	27.0	28.6	30.1	31.7	33.8	35.6	37.6
47.5°	22.2	22.4	22.4	22.7	24.2	25.8	27.2	28.8	30.8	32.9	34.9
50°	18.6	19.0	19.5	19.9	21.5	22.9	24.5	25.8	28.1	30.1	32.4
52.5°	16.3	17.0	17.4	18.1	19.5	21.1	22.4	23.8	25.8	27.9	29.9
55°	14.7	15.6	16.3	17.0	18.1	19.3	20.4	21.5	23.6	25.6	27.4
57.5°	12.9	13.6	14.3	15.0	16.1	17.2	18.1	19.3	21.1	23.1	24.9
60°	11.3	11.8	12.5	12.9	13.8	15.0	15.9	16.8	18.6	20.4	22.0
62.5°	10.0	10.4	10.6	10.9	11.8	12.7	13.6	14.5	16.1	17.9	19.5
65°	8.8	9.1	9.1	9.3	10.0	10.9	11.6	12.2	14.0	15.6	17.4
67.5°	7.5	7.7	7.7	7.7	8.4	9.1	9.7	10.4	12.0	13.8	15.4
70°	5.9	6.1	6.1	6.1	6.8	7.7	8.4	9.1	10.4	11.8	13.1
72.5°	4.5	4.5	4.8	4.8	5.4	6.3	7.0	7.7	8.8	10.0	11.1
75°	2.9	3.2	3.2	3.4	4.1	5.0	5.7	6.3	7.5	8.6	9.5
77.5°	1.1	1.6	1.8	2.0	2.7	3.4	4.1	4.8	5.7	6.8	7.7
80°	0.0	0.2	0.2	0.2	0.7	0.9	1.4	1.6	2.3	3.2	3.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	433.7	446.2	458.6	471.1	483.5	498.9	514.4	516.6	518.9	516.2	513.7
5°	448.2	454.3	460.2	466.3	472.2	489.9	507.3	507.6	507.6	507.8	507.8
7.5°	355.3	360.5	365.7	370.7	375.9	387.5	399.0	403.3	407.4	406.5	405.6
10°	257.9	264.7	271.2	278.0	284.6	295.2	305.9	310.0	313.8	326.3	339.0
12.5°	221.1	227.7	234.3	240.6	247.2	258.1	269.0	276.9	284.6	292.3	300.0
15°	180.1	185.3	190.8	196.0	201.2	206.2	211.2	220.9	230.4	238.1	245.8
17.5°	137.1	139.4	141.4	143.7	145.7	148.0	150.2	154.3	158.2	165.0	171.5
20°	100.6	102.4	104.2	105.8	107.6	109.9	112.2	115.1	117.8	119.4	120.8
22.5°	82.3	85.0	87.7	90.2	92.9	94.5	96.1	97.0	97.9	98.6	99.2
25°	74.1	76.6	78.9	81.3	83.6	84.3	85.0	86.8	88.6	88.6	88.6
27.5°	64.8	68.2	71.8	75.2	78.6	79.5	80.2	80.9	81.3	80.4	79.3
30°	61.2	64.6	68.0	71.1	74.5	75.9	77.0	77.7	78.4	77.3	76.1
32.5°	59.6	62.8	65.7	68.9	71.8	73.6	75.2	77.0	78.6	78.9	79.3
35°	51.9	53.9	56.2	58.2	60.3	61.2	62.1	62.8	63.2	63.2	63.2
37.5°	44.4	47.1	50.1	52.8	55.5	57.6	59.6	59.8	59.8	60.3	61.0
40°	43.1	45.8	48.5	51.0	53.7	56.0	58.0	58.2	58.5	58.9	59.4
42.5°	41.2	44.2	47.1	50.1	53.0	55.3	57.3	57.3	57.1	57.8	58.2
45°	39.4	42.4	45.1	48.0	50.8	53.7	56.4	55.7	54.8	56.0	56.9
47.5°	36.9	40.1	43.3	46.2	49.4	52.1	54.6	54.2	53.5	54.6	55.7
50°	34.4	37.6	40.8	44.0	47.1	50.1	52.8	52.3	51.9	53.2	54.4
52.5°	31.9	35.1	38.5	41.7	44.9	47.4	49.6	49.4	49.2	50.5	52.1
55°	29.5	32.4	35.6	38.5	41.5	44.2	46.7	46.2	45.8	46.9	48.0
57.5°	26.7	29.7	32.4	35.3	38.1	40.3	42.4	41.7	41.0	42.4	43.7
60°	23.8	26.5	29.2	31.7	34.4	36.3	37.8	37.4	36.7	38.1	39.4
62.5°	21.1	23.6	26.1	28.3	30.8	32.2	33.5	33.1	32.6	34.0	35.6
65°	19.0	21.1	22.9	24.9	26.7	28.1	29.5	28.8	28.1	29.7	31.0
67.5°	17.0	18.6	20.4	22.0	23.6	24.7	25.8	25.4	24.7	25.8	27.0
70°	14.5	16.1	17.7	19.0	20.6	21.8	22.9	22.2	21.3	22.4	23.6
72.5°	12.2	13.6	15.0	16.1	17.4	18.4	19.3	18.6	17.9	18.8	19.7
75°	10.6	11.8	12.9	13.8	15.0	15.4	15.9	15.6	15.2	16.1	16.8
77.5°	8.6	9.5	10.6	11.6	12.5	12.5	12.5	12.7	12.7	13.6	14.7
80°	4.5	5.4	6.3	7.0	7.9	7.9	7.7	8.2	8.4	9.5	10.6
82.5°	0.0	0.7	1.4	2.0	2.7	2.5	2.0	2.3	2.3	2.7	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	511.0	508.2	506.4	504.8	503.0	501.2	503.5	505.7	507.8	510.0	516.8
5°	508.0	508.0	506.4	504.8	503.3	501.7	505.1	508.2	511.6	514.8	514.6
7.5°	404.5	403.6	413.1	422.4	431.9	441.2	443.7	446.2	448.4	450.9	450.2
10°	351.4	363.9	368.0	372.1	376.1	380.2	385.2	390.2	395.2	400.2	402.0
12.5°	307.7	315.4	328.6	341.5	354.6	367.5	374.1	380.9	387.5	394.0	407.0
15°	253.6	261.3	272.6	283.9	295.2	306.6	317.0	327.6	338.1	348.5	364.1
17.5°	178.3	184.9	193.5	202.1	210.5	219.1	235.2	251.3	267.4	283.5	300.0
20°	122.4	123.7	127.8	132.1	136.2	140.3	154.8	169.5	184.0	198.5	220.2
22.5°	99.7	100.4	102.4	104.5	106.3	108.3	115.8	123.5	131.0	138.4	156.1
25°	88.4	88.4	89.7	91.1	92.4	93.8	97.9	102.0	105.8	109.9	121.2
27.5°	78.4	77.3	79.3	81.3	83.4	85.4	88.4	91.5	94.5	97.4	105.1
30°	75.0	73.9	76.4	78.9	81.3	83.8	86.8	89.7	92.4	95.4	100.6
32.5°	79.5	79.8	80.7	81.6	82.3	83.2	84.5	86.1	87.5	88.8	93.4
35°	63.2	63.2	64.8	66.4	67.7	69.3	71.8	74.3	76.8	79.3	84.1
37.5°	61.4	61.9	63.2	64.8	66.2	67.5	70.7	74.1	77.3	80.4	84.3
40°	59.6	60.0	61.9	63.7	65.5	67.3	70.5	73.4	76.6	79.5	83.2
42.5°	58.9	59.4	61.6	64.1	66.4	68.7	71.4	74.1	76.6	79.3	84.3
45°	58.0	58.9	61.6	64.6	67.3	70.0	72.5	75.0	77.5	80.0	86.1
47.5°	56.6	57.8	61.0	63.9	67.1	70.0	74.8	79.8	84.5	89.3	92.2
50°	55.7	56.9	60.3	63.7	67.1	70.5	78.2	85.9	93.4	101.1	99.5
52.5°	53.5	54.8	59.1	63.4	67.7	72.1	78.9	85.7	92.4	99.2	96.1
55°	49.2	50.3	55.3	60.3	65.0	70.0	75.0	80.0	84.7	89.7	86.1
57.5°	44.9	46.2	51.0	55.7	60.3	65.0	67.5	70.0	72.5	75.0	73.6
60°	40.8	42.1	48.5	54.8	61.2	67.5	65.3	63.0	60.5	58.2	59.8
62.5°	36.9	38.3	44.4	50.3	56.4	62.3	59.1	56.0	52.8	49.6	52.1
65°	32.6	34.0	36.3	38.7	41.0	43.3	43.1	42.6	42.4	41.9	44.6
67.5°	28.1	29.2	30.4	31.7	32.9	34.0	34.7	35.6	36.3	36.9	39.2
70°	24.5	25.6	27.0	28.1	29.5	30.6	31.0	31.5	31.7	32.2	34.2
72.5°	20.4	21.3	23.1	24.9	26.5	28.3	28.6	28.6	28.8	28.8	30.4
75°	17.7	18.4	19.7	21.1	22.2	23.6	24.2	24.9	25.4	26.1	27.0
77.5°	15.6	16.5	17.0	17.2	17.7	17.9	18.4	18.8	19.3	19.7	19.9
80°	11.6	12.7	13.1	13.4	13.8	14.0	14.0	13.8	13.8	13.6	13.8
82.5°	3.6	4.1	4.8	5.4	6.1	6.8	7.0	7.3	7.3	7.5	7.3
85°	0.7	0.9	1.4	1.8	2.0	2.5	2.3	1.8	1.6	1.1	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	523.6	530.2	537.0	534.3	531.6	528.9	526.1	526.6	527.3	527.7	528.2
5°	514.4	513.9	513.7	521.4	529.3	537.0	544.7	553.1	561.7	570.1	578.5
7.5°	449.5	448.6	448.0	457.9	467.9	477.9	487.8	499.4	511.2	522.7	534.3
10°	403.8	405.6	407.4	411.5	415.8	419.9	423.9	435.0	446.2	457.0	468.1
12.5°	419.9	432.6	445.5	448.0	450.2	452.7	455.0	456.6	458.2	459.7	461.3
15°	380.0	395.6	411.3	417.8	424.2	430.7	437.1	453.9	470.4	487.2	503.7
17.5°	316.5	332.9	349.4	369.1	388.8	408.5	428.3	446.4	464.5	482.6	500.8
20°	242.2	264.0	285.7	310.7	335.8	360.7	385.7	403.8	421.7	439.8	457.7
22.5°	174.0	191.7	209.4	239.5	269.4	299.5	329.5	361.0	392.7	424.2	455.7
25°	132.6	143.7	155.0	184.7	214.4	243.8	273.5	316.8	360.0	403.3	446.6
27.5°	112.6	120.3	127.8	154.5	181.3	207.8	234.5	286.0	337.4	388.8	440.3
30°	106.0	111.3	116.5	139.1	162.0	184.7	207.3	259.4	311.6	363.7	415.8
32.5°	97.9	102.2	106.7	126.7	146.6	166.3	186.3	237.2	288.2	339.0	390.0
35°	88.6	93.4	97.9	117.8	137.8	157.5	177.4	230.2	283.0	335.8	388.6
37.5°	87.9	91.8	95.4	118.5	141.8	165.0	188.1	240.9	293.7	346.2	399.0
40°	87.0	90.6	94.3	117.8	141.2	164.7	188.1	243.4	298.6	353.9	409.2
42.5°	89.3	94.0	99.0	119.9	140.7	161.3	182.2	240.4	298.6	356.6	414.9
45°	92.4	98.6	104.7	123.7	142.8	161.8	180.8	244.0	307.3	370.2	433.5
47.5°	95.4	98.3	101.3	119.4	137.3	155.4	173.3	237.9	302.5	367.1	431.6
50°	98.1	96.5	94.9	114.9	134.8	154.5	174.5	236.1	297.5	359.1	420.5
52.5°	92.7	89.5	86.1	107.4	128.7	149.8	171.1	233.2	295.2	357.3	419.4
55°	82.5	78.9	75.2	96.3	117.1	138.2	159.1	220.9	282.8	344.6	406.5
57.5°	72.1	70.7	69.1	85.2	101.3	117.1	133.2	201.9	270.8	339.4	408.1
60°	61.4	62.8	64.4	75.9	87.5	98.8	110.3	177.6	244.7	312.0	379.1
62.5°	54.4	56.9	59.1	68.9	78.9	88.6	98.3	161.8	225.2	288.7	352.1
65°	47.6	50.3	53.0	64.6	76.4	87.9	99.5	153.2	206.9	260.6	314.3
67.5°	41.5	43.5	45.8	61.0	76.1	91.3	106.5	150.5	194.2	238.1	281.9
70°	36.3	38.1	40.1	57.8	75.5	93.1	110.8	148.2	185.8	223.2	260.6
72.5°	31.9	33.5	35.1	53.0	70.9	88.8	106.7	140.0	173.1	206.4	239.5
75°	27.9	28.6	29.5	44.6	59.6	74.8	89.7	111.9	134.4	156.6	178.8
77.5°	20.2	20.2	20.4	24.9	29.2	33.8	38.1	51.9	65.7	79.3	93.1
80°	13.8	14.0	14.0	15.9	17.4	19.3	20.8	23.8	26.5	29.5	32.2
82.5°	7.0	6.6	6.3	8.2	10.0	11.8	13.6	14.3	14.7	15.4	15.9
85°	0.7	0.2	0.0	1.1	2.3	3.4	4.5	5.4	6.3	7.3	8.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367117

CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	526.4	524.6	522.7	520.9	532.0	543.4	554.5	565.6	597.1	617.7	615.4
5°	586.6	594.8	602.9	611.1	624.2	637.6	650.8	663.9	710.6	739.1	743.2
7.5°	547.0	559.4	572.1	584.6	610.0	635.1	660.5	685.7	723.9	753.6	770.4
10°	482.4	496.7	510.7	525.0	553.6	582.3	610.9	639.4	682.5	723.5	744.6
12.5°	483.8	506.2	528.6	551.1	576.0	600.9	625.6	650.5	676.8	690.6	720.3
15°	521.4	539.1	556.7	574.4	607.0	639.7	672.1	704.7	720.3	753.6	788.3
17.5°	535.2	569.9	604.3	638.8	679.5	720.1	760.9	801.4	830.9	877.1	912.9
20°	509.6	561.5	613.1	665.0	721.0	777.0	832.9	888.9	921.1	965.0	1020.3
22.5°	510.7	565.8	620.6	675.7	753.0	830.0	907.3	984.3	1070.6	1155.4	1182.3
25°	518.7	590.7	662.5	734.6	823.9	913.1	1002.4	1091.7	1195.9	1285.0	1320.8
27.5°	521.4	602.5	683.4	764.5	891.4	1018.3	1145.2	1272.1	1396.5	1497.1	1535.4
30°	514.8	614.1	713.1	812.1	967.8	1123.4	1279.1	1434.8	1552.8	1670.0	1717.5
32.5°	516.4	642.8	769.3	895.7	1079.0	1262.5	1445.9	1629.2	1704.6	1810.2	1894.0
35°	527.3	665.9	804.4	943.1	1145.9	1348.6	1551.4	1754.2	1878.0	1989.4	2060.6
37.5°	552.6	706.3	859.7	1013.3	1262.5	1512.0	1761.3	2010.5	2202.0	2393.4	2426.1
40°	571.5	733.7	895.9	1058.2	1347.5	1636.9	1926.2	2215.6	2432.2	2640.0	2662.2
42.5°	592.8	770.4	948.3	1125.9	1449.5	1773.0	2096.6	2420.2	2671.0	2882.9	2897.6
45°	616.1	798.9	981.6	1164.2	1503.2	1841.9	2180.9	2519.7	2812.6	3058.7	3003.2
47.5°	627.2	822.7	1018.3	1213.8	1577.3	1940.5	2303.9	2667.2	2930.0	3147.1	3082.3
50°	635.8	850.8	1066.1	1281.1	1662.2	2043.4	2424.5	2805.6	3069.1	3269.4	3167.9
52.5°	660.0	900.5	1141.1	1381.5	1786.9	2192.0	2597.4	3002.5	3257.4	3441.4	3299.1
55°	683.6	960.5	1237.6	1514.5	1950.5	2386.6	2822.6	3258.6	3512.3	3670.0	3476.8
57.5°	713.3	1018.7	1324.0	1629.2	2095.5	2561.8	3027.9	3494.2	3742.3	3916.6	3715.8
60°	705.6	1031.9	1358.4	1684.7	2159.6	2634.5	3109.5	3584.4	3879.2	4093.3	3957.1
62.5°	675.7	999.3	1322.6	1646.2	2112.7	2579.0	3045.6	3511.9	3865.1	4155.2	4109.4
65°	615.2	915.9	1216.8	1517.5	1962.9	2408.6	2854.1	3299.6	3735.5	4104.6	4120.9
67.5°	535.7	789.4	1043.0	1296.8	1712.3	2127.9	2543.2	2958.8	3473.4	3903.9	3952.4
70°	451.4	641.9	832.7	1023.3	1389.0	1754.7	2120.2	2485.9	3020.9	3454.1	3545.6
72.5°	361.9	484.4	606.8	729.2	993.1	1256.9	1520.9	1784.6	2255.2	2591.5	2751.2
75°	234.5	290.3	346.0	401.7	577.6	753.2	929.0	1104.6	1417.1	1664.7	1845.3
77.5°	104.5	115.8	126.9	138.2	273.9	409.7	545.4	681.1	816.8	966.4	1008.8
80°	37.4	42.4	47.6	52.6	119.2	186.0	252.6	319.3	385.0	462.2	481.0
82.5°	15.6	15.6	15.4	15.2	39.0	62.8	86.6	110.3	127.6	146.6	150.2
85°	6.3	4.8	2.9	1.1	5.0	9.1	12.9	16.8	27.0	24.5	45.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367117

CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	606.8	606.3	605.9	605.4	605.0	596.8	588.9	580.7	572.8	582.8	592.8
5°	736.6	748.4	760.2	772.2	784.0	787.4	790.8	794.2	797.6	804.8	812.1
7.5°	784.4	804.4	824.1	844.0	863.8	882.1	900.2	918.6	936.9	932.4	927.9
10°	767.9	803.9	840.0	876.2	912.2	920.2	928.1	936.3	944.2	964.8	985.4
12.5°	750.0	793.3	836.6	879.8	923.1	947.1	970.9	994.9	1019.0	1039.8	1060.7
15°	835.0	862.6	890.3	918.1	945.8	966.8	987.7	1008.8	1029.6	1044.1	1058.4
17.5°	946.7	960.3	973.9	987.7	1001.3	1017.8	1034.4	1050.9	1067.5	1076.1	1084.7
20°	1064.7	1070.6	1076.5	1082.4	1088.3	1075.2	1062.0	1048.9	1035.7	1043.9	1051.8
22.5°	1183.2	1185.3	1187.5	1189.6	1191.6	1161.0	1130.4	1099.9	1069.3	1056.4	1043.4
25°	1365.6	1350.7	1335.7	1320.8	1305.8	1269.6	1233.3	1197.1	1160.8	1128.9	1096.9
27.5°	1563.2	1512.5	1461.9	1411.2	1360.7	1324.4	1288.2	1251.9	1215.6	1167.6	1119.6
30°	1762.4	1680.6	1599.0	1517.2	1435.7	1392.6	1349.6	1306.3	1263.2	1215.2	1167.4
32.5°	1945.0	1846.7	1748.3	1649.8	1551.4	1478.9	1406.4	1333.9	1261.4	1227.9	1194.3
35°	2096.4	1980.1	1863.9	1747.4	1631.2	1559.4	1487.5	1415.7	1343.9	1294.0	1244.4
37.5°	2355.2	2224.4	2093.7	1962.9	1832.2	1734.1	1636.2	1538.1	1440.0	1406.7	1373.3
40°	2593.7	2429.0	2264.3	2099.6	1934.8	1852.6	1770.6	1688.3	1606.3	1551.7	1497.3
42.5°	2783.4	2609.8	2436.5	2262.9	2089.4	2008.0	1926.9	1845.6	1764.2	1727.7	1691.5
45°	2824.4	2660.8	2497.4	2333.9	2170.3	2122.9	2075.8	2028.4	1981.3	1956.1	1931.2
47.5°	2905.3	2727.9	2550.7	2373.3	2195.9	2174.6	2153.3	2131.7	2110.4	2122.4	2134.5
50°	2950.6	2769.6	2588.5	2407.5	2226.4	2232.6	2238.5	2244.6	2250.7	2335.9	2420.9
52.5°	3038.5	2855.7	2672.8	2490.0	2307.1	2345.6	2383.9	2422.4	2460.7	2578.1	2695.3
55°	3195.6	3015.9	2836.2	2656.3	2476.6	2527.4	2578.1	2629.1	2679.9	2804.5	2928.9
57.5°	3428.3	3249.9	3071.8	2893.5	2715.4	2766.0	2816.5	2867.0	2917.5	3030.2	3142.5
60°	3721.2	3538.2	3355.3	3172.2	2989.4	3008.4	3027.2	3046.2	3065.3	3186.3	3307.0
62.5°	3949.4	3781.1	3612.9	3444.6	3276.5	3255.4	3234.5	3213.5	3192.6	3284.6	3376.4
65°	4002.4	3883.9	3765.7	3647.2	3528.6	3463.8	3399.3	3334.5	3269.7	3306.8	3344.0
67.5°	3850.6	3770.6	3690.9	3610.9	3530.9	3395.6	3260.4	3124.9	2989.6	2969.9	2950.2
70°	3498.3	3454.6	3411.0	3367.3	3323.8	3115.4	2907.1	2698.7	2490.4	2440.3	2390.3
72.5°	2760.5	2787.7	2814.9	2842.3	2869.5	2646.3	2423.4	2200.2	1977.0	1913.5	1850.3
75°	1946.6	2038.8	2131.1	2223.3	2315.5	2112.0	1908.8	1705.3	1501.8	1440.9	1380.1
77.5°	1055.4	1228.3	1401.2	1574.1	1747.0	1579.1	1411.4	1243.5	1075.6	1033.2	991.1
80°	500.3	600.0	699.5	799.2	898.9	861.0	823.2	785.1	747.3	756.6	765.9
82.5°	153.4	225.5	297.5	369.6	441.6	447.3	452.7	458.4	464.1	478.1	491.9
85°	51.4	70.5	89.5	108.5	127.6	161.1	194.6	228.4	261.9	240.2	218.7
87.5°	0.0	0.7	1.1	1.8	2.3	7.0	11.8	16.5	21.3	18.4	15.6
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: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367117

CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	602.9	612.9	613.1	613.6	613.8	614.1	615.2	616.3	617.7	618.8	611.3
5°	819.6	826.8	813.4	800.1	786.5	773.1	785.1	797.1	809.1	821.2	815.9
7.5°	923.1	918.6	917.0	915.6	914.1	912.7	917.2	921.8	926.3	930.8	930.4
10°	1006.0	1026.7	1031.7	1036.6	1041.8	1046.8	1036.4	1026.0	1015.6	1005.1	1000.8
12.5°	1081.5	1102.3	1118.9	1135.4	1152.2	1168.7	1153.8	1139.1	1124.1	1109.4	1095.3
15°	1072.9	1087.2	1100.8	1114.4	1128.0	1141.5	1136.6	1131.8	1126.8	1121.8	1119.6
17.5°	1093.5	1102.1	1098.9	1095.8	1092.4	1089.2	1087.6	1086.3	1084.7	1083.1	1077.7
20°	1060.0	1068.1	1066.1	1064.3	1062.2	1060.2	1058.8	1057.5	1056.1	1054.8	1050.5
22.5°	1030.5	1017.6	1014.2	1011.0	1007.6	1004.5	1004.9	1005.4	1005.6	1006.0	1025.5
25°	1065.0	1033.0	1020.6	1008.1	995.4	982.9	988.6	994.0	999.7	1005.4	1033.5
27.5°	1071.3	1023.3	1003.3	983.4	963.5	943.5	963.9	984.3	1004.7	1025.1	1070.6
30°	1119.3	1071.5	1043.7	1016.0	988.1	960.5	986.6	1012.6	1038.7	1064.7	1114.1
32.5°	1160.6	1127.0	1107.1	1087.2	1067.2	1047.3	1048.4	1049.3	1050.5	1051.6	1121.2
35°	1194.6	1144.9	1126.8	1108.9	1090.8	1072.9	1099.9	1126.8	1153.8	1180.7	1243.3
37.5°	1340.0	1306.7	1273.4	1240.3	1207.0	1174.0	1195.5	1217.0	1238.8	1260.3	1329.4
40°	1442.7	1388.3	1379.7	1371.3	1362.7	1354.3	1365.4	1376.3	1387.4	1398.5	1459.0
42.5°	1655.0	1618.5	1595.2	1572.1	1548.7	1525.6	1534.5	1543.3	1552.4	1561.2	1618.5
45°	1906.1	1880.9	1865.5	1850.1	1834.5	1819.0	1805.7	1792.5	1779.2	1766.0	1824.3
47.5°	2146.5	2158.5	2192.5	2226.2	2260.2	2294.0	2266.3	2238.7	2210.8	2183.2	2183.4
50°	2506.1	2591.0	2608.2	2625.2	2642.5	2659.5	2600.5	2541.6	2482.5	2423.6	2416.6
52.5°	2812.6	2929.8	2935.9	2942.0	2948.4	2954.5	2930.7	2906.9	2882.9	2859.1	2795.9
55°	3053.5	3177.9	3186.3	3194.4	3202.8	3211.0	3190.1	3169.5	3148.7	3127.8	3063.9
57.5°	3255.2	3367.5	3372.5	3377.3	3382.3	3387.3	3388.8	3390.4	3392.2	3393.8	3307.5
60°	3428.0	3549.0	3539.1	3529.3	3519.4	3509.6	3494.7	3479.7	3464.8	3449.8	3394.1
62.5°	3468.4	3560.4	3545.0	3529.8	3514.4	3499.2	3486.5	3474.0	3461.4	3448.7	3413.1
65°	3381.1	3418.3	3402.4	3386.6	3370.5	3354.6	3346.5	3338.5	3330.4	3322.2	3317.7
67.5°	2930.2	2910.5	2929.3	2948.1	2966.9	2985.7	3011.3	3037.0	3062.8	3088.4	3073.4
70°	2340.0	2289.9	2310.7	2331.4	2352.2	2372.8	2411.6	2450.3	2489.3	2528.0	2517.6
72.5°	1786.9	1723.4	1726.4	1729.3	1732.5	1735.4	1734.3	1733.4	1732.3	1731.1	1749.3
75°	1319.2	1258.2	1229.5	1200.7	1171.9	1143.1	1136.1	1129.1	1122.1	1115.0	1148.8
77.5°	948.7	906.6	886.9	867.4	847.7	828.2	838.1	848.1	858.3	868.3	880.1
80°	775.4	784.7	769.5	754.5	739.4	724.2	735.5	746.6	757.9	769.3	734.1
82.5°	506.0	519.8	473.1	426.4	379.8	333.1	361.4	389.7	418.3	446.6	432.1
85°	196.9	175.4	149.5	123.9	98.1	72.3	94.0	115.8	137.5	159.3	173.8
87.5°	12.7	10.0	7.9	5.9	3.6	1.6	3.4	5.2	7.3	9.1	15.2
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: P367117
 CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P367117

CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	604.1	596.6	589.4	575.1	560.8	546.5	532.3	552.2	572.1	592.1	612.0
5°	811.0	805.7	800.8	802.1	803.5	805.1	806.4	809.4	812.3	815.0	818.0
7.5°	930.1	929.7	929.2	918.8	908.4	897.7	887.3	892.5	897.7	903.0	908.2
10°	996.8	992.5	988.1	965.3	942.4	919.3	896.4	886.4	876.2	866.2	856.3
12.5°	1081.3	1067.0	1053.0	1028.5	1004.2	979.8	955.3	946.2	936.9	927.9	918.6
15°	1117.5	1115.3	1113.2	1095.8	1078.1	1060.7	1043.0	1011.9	980.7	949.6	918.6
17.5°	1072.2	1066.5	1061.1	1088.8	1116.2	1143.8	1171.5	1139.3	1107.1	1074.9	1042.8
20°	1046.2	1041.8	1037.5	1089.0	1140.2	1191.6	1242.8	1228.6	1214.1	1199.8	1185.5
22.5°	1045.0	1064.7	1084.2	1129.3	1174.2	1219.3	1264.1	1288.8	1313.8	1338.5	1363.2
25°	1061.6	1089.9	1118.0	1192.8	1267.5	1342.5	1417.3	1445.6	1473.7	1502.0	1530.1
27.5°	1115.9	1161.5	1206.8	1272.1	1337.3	1402.8	1468.1	1529.9	1592.0	1653.9	1715.7
30°	1163.3	1212.7	1262.1	1339.8	1417.3	1495.0	1572.5	1650.0	1727.5	1805.0	1882.5
32.5°	1190.7	1260.5	1330.1	1424.6	1518.8	1613.3	1707.8	1792.8	1877.7	1962.5	2047.4
35°	1305.8	1368.6	1431.1	1535.6	1640.0	1744.7	1849.2	1954.3	2059.5	2164.4	2269.5
37.5°	1398.5	1467.8	1536.9	1651.1	1765.1	1879.3	1993.5	2138.8	2284.2	2429.5	2574.7
40°	1519.5	1580.0	1640.5	1747.4	1854.2	1961.1	2068.1	2252.3	2436.5	2620.5	2804.7
42.5°	1675.6	1732.9	1790.3	1904.7	2019.1	2133.5	2248.0	2451.9	2655.8	2859.5	3063.5
45°	1882.5	1940.9	1999.2	2090.3	2181.4	2272.4	2363.5	2580.4	2797.0	3013.8	3230.5
47.5°	2183.6	2183.9	2184.1	2249.8	2315.5	2381.4	2447.1	2665.6	2883.8	3102.2	3320.4
50°	2409.5	2402.3	2395.3	2429.2	2463.0	2497.0	2531.0	2732.0	2933.2	3134.2	3335.1
52.5°	2732.9	2669.7	2606.7	2626.8	2646.8	2666.9	2686.9	2857.0	3027.4	3197.6	3367.8
55°	3000.2	2936.3	2872.5	2865.0	2857.5	2850.0	2842.5	2999.1	3155.7	3312.3	3468.8
57.5°	3221.4	3135.1	3049.0	3031.7	3014.7	2997.5	2980.3	3145.5	3310.4	3475.6	3640.6
60°	3338.5	3282.8	3227.1	3216.0	3204.6	3193.5	3182.2	3317.7	3453.2	3588.7	3724.2
62.5°	3377.7	3342.2	3306.8	3327.7	3348.5	3369.6	3390.4	3450.0	3509.4	3569.0	3628.3
65°	3313.4	3308.9	3304.3	3347.2	3389.8	3432.6	3475.4	3460.7	3445.7	3431.0	3416.3
67.5°	3058.7	3043.8	3029.0	3123.1	3216.9	3310.9	3404.9	3333.6	3262.0	3190.6	3119.2
70°	2507.2	2496.5	2486.1	2621.6	2757.1	2892.8	3028.3	2941.8	2855.2	2768.7	2682.1
72.5°	1767.2	1785.3	1803.4	1963.2	2122.7	2282.4	2441.9	2354.7	2267.5	2180.2	2093.0
75°	1182.3	1216.1	1249.9	1414.4	1578.9	1743.6	1908.1	1805.7	1703.3	1600.8	1498.4
77.5°	891.8	903.6	915.4	1019.4	1123.4	1227.7	1331.7	1247.1	1162.4	1077.9	993.1
80°	699.0	663.7	628.6	662.8	697.0	731.2	765.4	714.9	664.4	614.1	563.5
82.5°	417.6	403.1	388.6	407.2	425.5	444.1	462.7	440.9	419.0	397.2	375.2
85°	188.1	202.6	216.8	235.7	254.2	273.0	291.8	261.5	231.1	200.8	170.4
87.5°	21.1	27.2	33.3	41.2	49.2	57.1	65.0	50.8	36.3	22.0	7.7
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):

	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°	479.0	479.0
2.5°	623.6	635.1
5°	817.8	817.3
7.5°	894.6	880.7
10°	843.6	830.9
12.5°	886.2	853.8
15°	894.1	869.6
17.5°	1002.9	962.8
20°	1134.1	1082.4
22.5°	1292.5	1221.5
25°	1445.9	1361.6
27.5°	1665.2	1614.4
30°	1831.3	1779.8
32.5°	2012.6	1977.7
35°	2234.8	2199.9
37.5°	2583.8	2592.6
40°	2810.1	2815.6
42.5°	3084.5	3105.6
45°	3254.0	3277.6
47.5°	3353.3	3386.1
50°	3388.2	3441.2
52.5°	3433.3	3498.5
55°	3541.6	3614.3
57.5°	3698.6	3756.6
60°	3726.9	3729.6
62.5°	3586.4	3544.5
65°	3371.6	3327.0
67.5°	3092.2	3065.1
70°	2646.3	2610.5
72.5°	2026.4	1959.8
75°	1415.9	1333.5
77.5°	949.9	906.6
80°	564.9	566.0
82.5°	385.7	395.8
85°	168.4	166.1
87.5°	5.4	2.9
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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CATALOG NUMBER: MSA-SA1D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)