

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: P597169

Luminaire Tested: **MSA-SA4D-835-U-SLR-HSS**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P597169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-25)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: MSA-SA4D-835-U-SLR-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) 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: 15821 lumens  
Efficiency: N/A  
Efficacy: 61.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

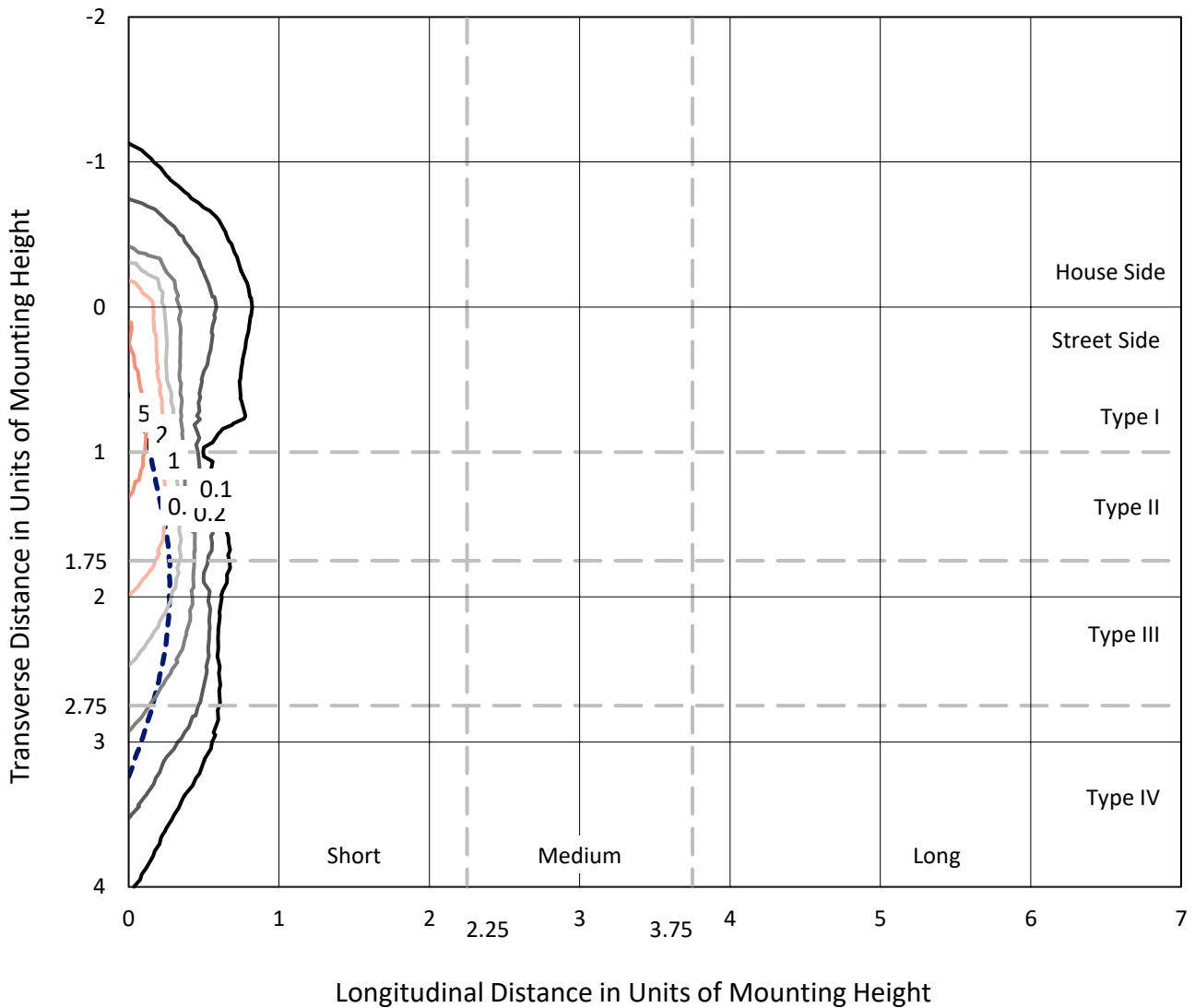
Input Watts (W): 259  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P597169  
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### Iso-Footcandle Lines of Horizontal Illumination

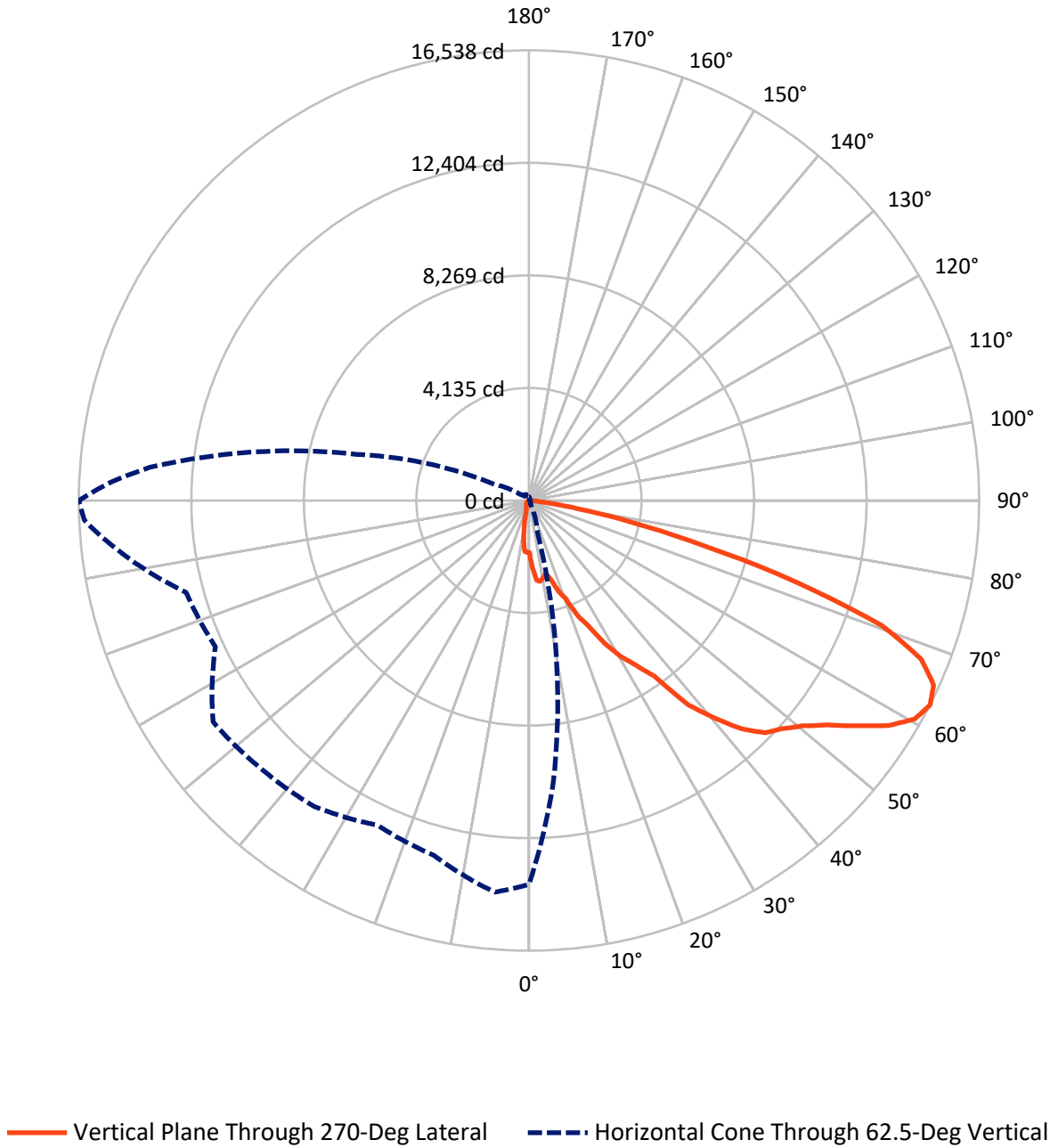
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P597169  
CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2641.9	0.0	2641.9
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	13179.1	0.0	13179.1
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	15821.0	0.0	15821.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.0	1.3
10°-20°	556.4	3.5
20°-30°	899.4	5.7
30°-40°	1506.3	9.5
40°-50°	2462.4	15.6
50°-60°	3645.3	23.0
60°-70°	4184.8	26.5
70°-80°	2069.1	13.1
80°-90°	284.2	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°	15821.0	100.0
0°-180°	15821.0	100.0

**Coefficient of Utilization**



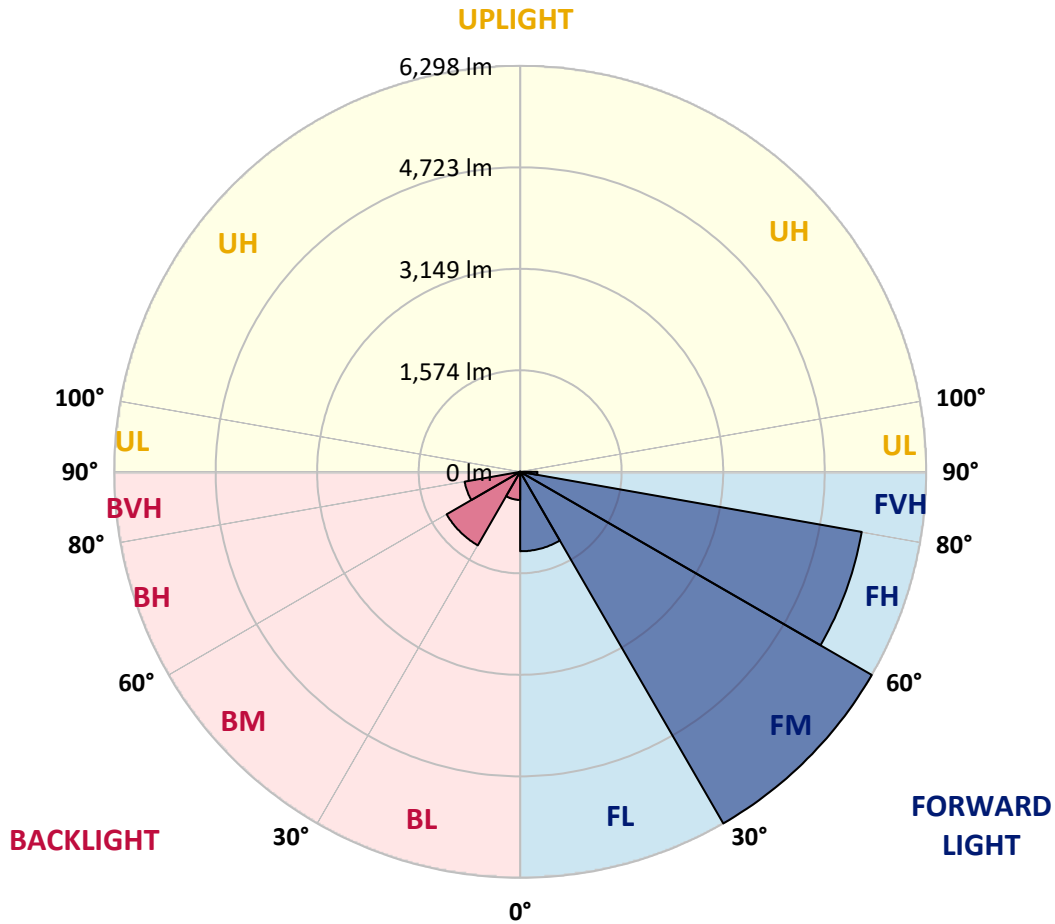
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 CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.6	7.8			
FM (30°-60°)	6297.6	39.8			
FH (60°-80°)	5379.9	34.0			G3/7500
FVH (80°-90°)	269.1	1.7			G3/500
BL (0°-30°)	436.2	2.8	B1/500		
BM (30°-60°)	1316.5	8.3	B2/2500		
BH (60°-80°)	874.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	15.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





REPORT NUMBER: P597169

CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	2527.9	2559.4	2590.1	2531.5	2472.9	2414.2	2355.6	2303.3	2251.0	2197.8	2145.5
5°	3253.0	3195.2	3137.5	3058.2	2978.8	2899.4	2820.1	2783.1	2746.1	2709.1	2672.2
7.5°	3505.5	3402.7	3299.0	3228.6	3159.2	3088.8	3018.5	2907.6	2795.7	2684.8	2573.0
10°	3307.1	3197.9	3087.9	3026.6	2965.3	2903.9	2842.6	2704.6	2565.8	2427.8	2288.9
12.5°	3398.2	3280.0	3161.9	3035.6	2909.4	2783.1	2656.8	2551.3	2444.9	2339.4	2233.0
15°	3461.3	3326.0	3189.8	3045.5	2901.2	2756.9	2612.7	2488.2	2364.6	2240.2	2115.7
17.5°	3831.9	3638.1	3444.2	3222.3	3000.4	2778.6	2556.7	2412.4	2269.0	2124.8	1980.5
20°	4308.1	4033.1	3757.1	3456.8	3156.5	2856.1	2555.8	2376.4	2196.9	2017.4	1838.0
22.5°	4861.9	4518.3	4173.7	3803.1	3433.3	3062.7	2692.0	2434.1	2176.2	1918.2	1660.3
25°	5419.2	5109.0	4798.7	4300.0	3801.3	3301.7	2802.9	2475.6	2147.3	1819.9	1491.7
27.5°	6425.7	5871.0	5316.4	4681.5	4047.5	3412.6	2777.7	2402.5	2027.4	1651.3	1276.1
30°	7084.0	6657.4	6230.0	5391.2	4553.4	3714.7	2876.0	2400.7	1925.4	1449.3	974.0
32.5°	7871.3	7247.2	6622.3	5712.3	4802.3	3892.4	2982.4	2424.2	1865.0	1306.8	747.6
35°	8756.0	8076.9	7397.9	6245.3	5092.7	3939.3	2786.7	2245.6	1704.5	1163.4	622.3
37.5°	10318.9	9182.6	8046.3	6702.5	5357.9	4014.1	2669.5	2129.3	1588.2	1047.9	506.8
40°	11206.4	10121.4	9036.5	7357.3	5678.0	3998.8	2319.6	1839.8	1360.9	881.1	401.3
42.5°	12360.7	10984.5	9607.4	7730.6	5853.9	3977.1	2100.4	1656.7	1213.0	768.4	324.7
45°	13045.2	11485.9	9926.6	7893.0	5859.3	3825.6	1792.0	1407.8	1023.6	639.4	255.2
47.5°	13477.2	11913.4	10349.6	8166.2	5983.8	3800.4	1617.0	1263.5	910.0	556.4	202.9
50°	13696.4	12128.0	10558.8	8315.0	6071.2	3826.5	1582.7	1231.0	878.4	526.7	174.1
52.5°	13924.5	12412.1	10898.8	8573.0	6247.1	3921.2	1595.4	1236.4	878.4	519.5	160.5
55°	14385.4	12893.7	11401.2	8942.7	6484.3	4025.8	1567.4	1213.9	860.4	505.9	152.4
57.5°	14951.7	13357.3	11761.9	9213.3	6664.6	4116.0	1567.4	1212.1	856.8	500.5	145.2
60°	14844.4	13113.8	11382.2	8909.3	6436.5	3962.7	1489.9	1151.7	814.4	476.2	138.0
62.5°	14107.6	12229.0	10349.6	8064.3	5778.1	3492.9	1206.7	937.0	667.4	396.8	127.2
65°	13241.8	11247.8	9253.0	7149.8	5045.8	2942.7	838.7	658.3	477.1	296.7	115.4
67.5°	12199.3	10072.7	7946.2	6075.7	4206.2	2335.8	465.4	375.2	285.0	193.9	103.7
70°	10390.2	8195.1	5999.1	4561.5	3124.9	1687.4	249.8	211.0	172.3	133.5	94.7
72.5°	7800.1	5789.0	3777.8	2869.7	1962.4	1054.3	146.1	131.7	116.3	101.9	86.6
75°	5307.4	3800.4	2293.4	1746.0	1199.5	652.0	104.6	97.4	89.3	82.1	74.0
77.5°	3608.3	2609.9	1611.6	1230.1	848.6	467.2	85.7	81.2	76.7	71.2	66.7
80°	2252.8	1542.2	831.5	640.3	448.2	257.0	64.9	62.2	59.5	55.9	53.2
82.5°	1575.5	942.4	309.3	241.7	174.1	105.5	37.9	38.8	39.7	39.7	40.6
85°	661.1	357.1	53.2	45.1	37.0	28.9	20.7	22.5	25.3	27.1	28.9
87.5°	11.7	6.3	0.0	1.8	4.5	6.3	8.1	10.8	12.6	15.3	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597169  
 CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

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





REPORT NUMBER: P597169

CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	2159.0	2172.5	2185.2	2198.7	2187.9	2178.0	2167.1	2156.3	2140.1	2124.8	2108.5
5°	2627.1	2582.0	2536.9	2491.8	2423.3	2354.7	2285.3	2216.7	2208.6	2200.5	2191.5
7.5°	2467.5	2361.9	2255.5	2150.0	2050.8	1951.6	1852.4	1753.2	1722.5	1692.8	1662.1
10°	2207.7	2126.6	2044.5	1963.3	1892.1	1819.9	1748.7	1676.5	1601.7	1526.8	1451.1
12.5°	2148.2	2063.4	1977.8	1893.0	1828.0	1763.1	1698.2	1633.2	1549.4	1465.5	1381.6
15°	2023.7	1931.8	1839.8	1747.8	1661.2	1574.6	1487.1	1400.6	1299.6	1198.6	1097.5
17.5°	1871.3	1763.1	1654.0	1544.9	1431.2	1317.6	1204.0	1090.3	974.0	858.6	742.2
20°	1690.1	1542.2	1393.4	1245.5	1104.8	964.1	822.5	681.8	608.7	536.6	463.5
22.5°	1469.1	1277.0	1085.8	893.7	778.3	662.0	546.5	430.2	398.6	367.1	335.5
25°	1274.3	1057.0	839.6	622.3	549.2	476.2	403.1	330.1	315.6	300.3	285.9
27.5°	1071.4	867.6	662.9	458.1	416.7	374.3	332.8	290.4	280.5	271.5	261.5
30°	821.6	669.2	515.9	363.4	336.4	309.3	281.4	254.3	249.8	244.4	239.9
32.5°	636.7	524.9	413.9	302.1	286.8	271.5	256.1	240.8	233.6	226.4	218.2
35°	532.1	442.8	352.6	262.4	251.6	239.9	229.1	217.3	210.1	202.0	194.8
37.5°	441.0	376.1	310.2	244.4	232.7	221.0	208.3	196.6	191.2	185.8	180.4
40°	363.4	325.6	287.7	249.8	232.7	215.5	198.4	181.3	176.8	172.3	167.7
42.5°	300.3	276.0	250.7	226.4	213.7	202.0	189.4	176.8	170.4	163.2	156.9
45°	242.6	229.1	216.4	202.9	203.8	204.7	204.7	205.6	189.4	172.3	156.0
47.5°	196.6	190.3	183.1	176.8	184.0	191.2	197.5	204.7	187.6	170.4	152.4
50°	168.6	164.1	158.7	153.3	160.5	168.6	175.9	183.1	175.9	169.5	162.3
52.5°	154.2	147.9	141.6	135.3	138.0	141.6	144.3	147.0	147.0	147.0	147.0
55°	145.2	138.9	131.7	124.5	121.7	118.1	115.4	111.8	107.3	103.7	99.2
57.5°	138.0	130.8	122.7	115.4	110.9	105.5	101.0	95.6	91.1	85.7	81.2
60°	130.8	123.6	115.4	108.2	103.7	99.2	93.8	89.3	83.9	79.4	74.0
62.5°	120.8	114.5	108.2	101.9	97.4	93.8	89.3	84.8	79.4	74.0	67.6
65°	110.0	105.5	100.1	94.7	90.2	85.7	81.2	76.7	71.2	66.7	61.3
67.5°	100.1	95.6	92.0	87.5	82.1	77.6	72.1	66.7	63.1	59.5	55.0
70°	92.0	88.4	85.7	82.1	76.7	72.1	66.7	61.3	58.6	55.0	52.3
72.5°	83.9	81.2	77.6	74.9	70.3	65.8	61.3	56.8	54.1	51.4	48.7
75°	72.1	70.3	68.5	66.7	62.2	57.7	52.3	47.8	46.9	46.0	45.1
77.5°	64.9	64.0	62.2	60.4	55.9	51.4	46.9	42.4	43.3	44.2	44.2
80°	53.2	53.2	52.3	52.3	48.7	45.1	40.6	37.0	38.8	41.5	43.3
82.5°	40.6	40.6	40.6	40.6	37.0	33.4	29.8	26.2	28.9	30.7	33.4
85°	28.0	27.1	26.2	25.3	22.5	20.7	18.0	15.3	18.9	21.6	25.3
87.5°	17.1	18.0	18.0	18.0	16.2	13.5	11.7	9.0	10.8	11.7	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597169  
 CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P597169  
 CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	2092.3	2065.2	2038.2	2010.2	1983.2	1920.0	1856.9	1793.8	1730.6	1777.5	1823.5
5°	2183.4	2131.1	2077.9	2025.5	1972.3	1948.9	1926.3	1902.9	1879.4	1883.1	1887.6
7.5°	1631.4	1597.2	1562.9	1527.7	1493.5	1486.2	1479.9	1472.7	1465.5	1480.8	1495.3
10°	1376.2	1328.4	1279.7	1231.9	1183.2	1157.1	1130.9	1104.8	1078.6	1075.9	1072.3
12.5°	1297.8	1224.7	1152.6	1079.5	1006.5	949.6	892.8	836.0	779.2	783.7	788.2
15°	996.5	923.5	851.3	778.3	705.2	659.3	612.4	566.4	519.5	505.9	492.4
17.5°	625.9	571.8	517.7	462.6	408.5	393.2	378.8	363.4	348.1	343.6	339.1
20°	390.5	367.1	343.6	319.3	295.8	292.2	288.6	285.0	281.4	284.1	286.8
22.5°	303.9	294.0	283.2	273.3	262.4	258.8	255.2	251.6	248.0	250.7	252.5
25°	270.6	263.3	256.1	248.9	241.7	238.1	233.6	230.0	225.5	227.3	230.0
27.5°	251.6	245.3	239.0	232.7	226.4	220.1	214.6	208.3	202.0	205.6	208.3
30°	234.5	227.3	221.0	213.7	206.5	200.2	193.9	186.7	180.4	184.0	187.6
32.5°	211.0	204.7	197.5	191.2	184.0	180.4	176.8	172.3	168.6	171.4	173.2
35°	186.7	181.3	176.8	171.4	165.9	162.3	159.6	156.0	152.4	153.3	155.1
37.5°	175.0	168.6	162.3	156.0	149.7	147.9	146.1	143.4	141.6	141.6	141.6
40°	163.2	156.9	150.6	143.4	137.1	134.4	131.7	129.0	126.3	126.3	126.3
42.5°	149.7	143.4	137.1	130.8	124.5	121.7	118.1	115.4	111.8	111.8	111.8
45°	138.9	132.6	127.2	120.8	114.5	110.0	105.5	100.1	95.6	94.7	93.8
47.5°	135.3	126.3	117.2	108.2	99.2	94.7	90.2	84.8	80.3	79.4	78.5
50°	155.1	137.1	119.0	101.0	83.0	79.4	75.8	72.1	68.5	66.7	65.8
52.5°	147.0	128.1	109.1	90.2	71.2	68.5	65.8	63.1	60.4	58.6	56.8
55°	94.7	86.6	79.4	71.2	63.1	61.3	59.5	56.8	55.0	53.2	51.4
57.5°	75.8	71.2	67.6	63.1	58.6	56.8	55.0	52.3	50.5	47.8	46.0
60°	68.5	64.9	61.3	57.7	54.1	52.3	50.5	48.7	46.9	44.2	42.4
62.5°	62.2	59.5	56.8	54.1	51.4	49.6	47.8	46.0	44.2	41.5	38.8
65°	55.9	54.1	52.3	50.5	48.7	46.9	45.1	42.4	40.6	37.9	35.2
67.5°	51.4	50.5	49.6	48.7	47.8	46.0	43.3	41.5	38.8	36.1	32.5
70°	48.7	48.7	48.7	47.8	47.8	46.0	43.3	41.5	38.8	35.2	32.5
72.5°	46.0	46.9	47.8	47.8	48.7	46.0	43.3	40.6	37.9	34.3	31.6
75°	44.2	45.1	46.0	46.0	46.9	45.1	43.3	40.6	38.8	35.2	31.6
77.5°	45.1	46.0	46.0	46.9	46.9	45.1	43.3	40.6	38.8	34.3	29.8
80°	45.1	44.2	43.3	41.5	40.6	37.0	33.4	28.9	25.3	19.8	15.3
82.5°	35.2	33.4	32.5	30.7	28.9	25.3	21.6	18.0	14.4	10.8	7.2
85°	28.0	26.2	25.3	23.4	21.6	18.9	15.3	12.6	9.0	7.2	4.5
87.5°	14.4	13.5	11.7	10.8	9.0	7.2	4.5	2.7	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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-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: P597169

CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	1870.4	1916.4	1910.1	1903.8	1933.6	1963.3	1941.7	1920.9	1899.3	1877.6	1832.6
5°	1891.2	1894.8	1888.5	1881.3	1882.2	1883.1	1868.6	1854.2	1839.8	1825.3	1822.6
7.5°	1510.6	1525.0	1544.9	1563.8	1564.7	1564.7	1553.9	1543.1	1531.3	1520.5	1525.9
10°	1069.6	1066.0	1071.4	1076.8	1075.9	1074.1	1103.0	1131.8	1159.8	1188.6	1167.9
12.5°	791.8	796.3	773.8	751.2	759.4	766.6	771.1	775.6	780.1	784.6	797.2
15°	478.9	465.4	449.1	432.9	441.0	448.2	456.3	463.5	471.7	478.9	487.0
17.5°	333.7	329.2	322.0	313.8	314.7	315.6	316.5	317.5	317.5	318.4	320.2
20°	289.5	292.2	286.8	280.5	278.7	276.0	274.2	272.4	269.7	267.8	265.1
22.5°	255.2	257.0	257.9	257.9	254.3	249.8	246.2	243.5	239.9	236.3	234.5
25°	231.8	233.6	231.8	229.1	227.3	225.5	223.7	221.0	219.1	216.4	215.5
27.5°	211.9	214.6	214.6	213.7	211.9	209.2	204.7	201.1	196.6	192.1	193.0
30°	191.2	194.8	194.8	193.9	193.0	192.1	187.6	183.1	178.6	174.1	175.9
32.5°	175.9	177.7	176.8	175.9	175.9	175.0	171.4	168.6	165.0	161.4	161.4
35°	156.0	156.9	156.9	156.9	156.9	156.0	153.3	150.6	147.9	145.2	146.1
37.5°	141.6	141.6	144.3	146.1	144.3	142.5	140.7	138.0	136.2	133.5	133.5
40°	125.4	125.4	128.1	129.9	128.1	126.3	125.4	123.6	122.7	120.8	120.8
42.5°	110.9	110.9	113.6	115.4	115.4	114.5	112.7	110.9	109.1	107.3	108.2
45°	92.9	92.0	96.5	100.1	98.3	96.5	96.5	95.6	95.6	94.7	95.6
47.5°	76.7	75.8	79.4	83.0	82.1	80.3	80.3	80.3	80.3	80.3	81.2
50°	64.0	62.2	65.8	68.5	67.6	65.8	65.8	66.7	66.7	66.7	67.6
52.5°	55.0	53.2	55.9	57.7	56.8	55.9	55.9	56.8	56.8	56.8	57.7
55°	48.7	46.9	49.6	51.4	50.5	48.7	49.6	49.6	50.5	50.5	50.5
57.5°	43.3	40.6	42.4	44.2	44.2	43.3	44.2	44.2	45.1	45.1	45.1
60°	39.7	37.0	38.8	39.7	39.7	38.8	39.7	39.7	40.6	40.6	40.6
62.5°	35.2	32.5	34.3	35.2	35.2	34.3	35.2	35.2	36.1	36.1	36.1
65°	31.6	28.9	29.8	30.7	30.7	30.7	31.6	31.6	32.5	32.5	32.5
67.5°	29.8	26.2	27.1	28.0	28.0	28.0	28.9	28.9	29.8	29.8	30.7
70°	28.9	25.3	26.2	26.2	27.1	27.1	27.1	28.0	28.0	28.0	28.0
72.5°	28.0	24.3	24.3	24.3	25.3	25.3	25.3	26.2	26.2	26.2	26.2
75°	28.0	24.3	23.4	22.5	23.4	23.4	23.4	24.3	24.3	24.3	24.3
77.5°	24.3	19.8	18.0	15.3	18.0	19.8	20.7	20.7	21.6	21.6	21.6
80°	9.9	4.5	2.7	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3
82.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	1787.5	1742.4	1697.3	1718.9	1740.6	1762.2	1783.9	1782.0	1779.3	1777.5	1774.8
5°	1820.8	1818.1	1815.4	1802.8	1791.1	1778.4	1765.8	1763.1	1759.5	1756.8	1753.2
7.5°	1531.3	1535.8	1541.3	1526.8	1512.4	1498.0	1483.5	1446.6	1409.6	1371.7	1334.7
10°	1147.1	1125.5	1104.8	1103.0	1101.2	1099.4	1097.5	1093.9	1090.3	1085.8	1082.2
12.5°	810.8	823.4	836.0	831.5	827.0	821.6	817.1	823.4	830.6	836.9	843.2
15°	494.2	502.3	509.5	525.8	542.0	558.2	574.5	580.8	588.0	594.3	600.6
17.5°	322.0	322.9	324.7	342.7	359.8	377.9	395.0	406.7	418.5	429.3	441.0
20°	262.4	259.7	257.0	266.9	276.9	286.8	296.7	307.5	318.4	329.2	340.0
22.5°	233.6	231.8	230.0	233.6	237.2	239.9	243.5	251.6	260.6	268.8	276.9
25°	214.6	212.8	211.9	213.7	215.5	217.3	219.1	223.7	228.2	232.7	237.2
27.5°	193.0	193.9	193.9	195.7	196.6	198.4	199.3	201.1	203.8	205.6	207.4
30°	176.8	178.6	179.5	181.3	182.2	184.0	184.9	184.0	183.1	182.2	181.3
32.5°	161.4	160.5	160.5	162.3	163.2	165.0	165.9	167.7	169.5	170.4	172.3
35°	146.1	147.0	147.0	147.0	147.9	147.9	147.9	149.7	152.4	154.2	156.0
37.5°	132.6	132.6	131.7	134.4	136.2	138.9	140.7	142.5	145.2	147.0	148.8
40°	120.8	120.8	120.8	122.7	124.5	125.4	127.2	131.7	136.2	140.7	145.2
42.5°	108.2	109.1	109.1	110.9	112.7	113.6	115.4	119.0	121.7	125.4	128.1
45°	96.5	97.4	98.3	100.1	101.0	102.8	103.7	105.5	106.4	108.2	109.1
47.5°	83.0	83.9	84.8	86.6	87.5	89.3	90.2	89.3	89.3	88.4	87.5
50°	69.4	70.3	71.2	74.0	75.8	78.5	80.3	78.5	76.7	74.0	72.1
52.5°	58.6	58.6	59.5	61.3	63.1	64.0	65.8	64.9	64.0	63.1	62.2
55°	50.5	50.5	50.5	51.4	52.3	53.2	54.1	55.0	55.0	55.9	55.9
57.5°	45.1	44.2	44.2	45.1	46.0	46.0	46.9	47.8	47.8	48.7	48.7
60°	40.6	39.7	39.7	40.6	41.5	42.4	43.3	43.3	43.3	42.4	42.4
62.5°	36.1	36.1	36.1	37.0	37.0	37.9	37.9	37.9	38.8	38.8	38.8
65°	33.4	33.4	33.4	33.4	33.4	32.5	32.5	33.4	33.4	34.3	34.3
67.5°	30.7	31.6	31.6	30.7	29.8	28.9	28.0	28.9	28.9	29.8	29.8
70°	28.0	28.0	28.0	27.1	26.2	25.3	24.3	24.3	24.3	23.4	23.4
72.5°	26.2	25.3	25.3	24.3	22.5	21.6	19.8	18.9	18.9	18.0	17.1
75°	24.3	23.4	23.4	21.6	19.8	18.0	16.2	15.3	13.5	12.6	10.8
77.5°	21.6	21.6	21.6	18.9	17.1	14.4	11.7	9.9	8.1	5.4	3.6
80°	7.2	8.1	9.0	8.1	8.1	7.2	6.3	4.5	3.6	1.8	0.0
82.5°	0.9	0.9	0.9	0.9	0.9	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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	1784.8	1794.7	1804.6	1814.5	1815.4	1816.3	1817.2	1818.1	1795.6	1772.1	1749.6
5°	1771.2	1790.2	1808.2	1826.2	1816.3	1806.4	1796.5	1786.6	1785.7	1785.7	1784.8
7.5°	1337.4	1339.2	1341.9	1343.8	1347.4	1351.0	1353.7	1357.3	1371.7	1386.1	1399.7
10°	1070.5	1058.8	1046.1	1034.4	1025.4	1015.5	1006.5	996.5	1003.8	1011.9	1019.1
12.5°	833.3	823.4	812.6	802.6	799.0	795.4	790.9	787.3	810.8	834.2	856.8
15°	598.8	597.0	594.3	592.5	604.2	616.0	627.7	639.4	659.3	678.2	698.0
17.5°	445.5	450.0	454.5	459.0	466.3	473.5	479.8	487.0	501.4	516.8	531.2
20°	345.4	351.7	357.1	362.5	360.7	358.9	356.2	354.4	366.1	377.9	388.7
22.5°	282.3	286.8	292.2	296.7	297.6	298.5	299.4	300.3	307.5	313.8	321.1
25°	241.7	247.1	251.6	256.1	257.0	257.9	258.8	259.7	268.8	277.8	285.9
27.5°	213.7	219.1	225.5	230.9	232.7	234.5	236.3	238.1	243.5	248.0	253.4
30°	188.5	195.7	202.9	210.1	212.8	215.5	218.2	221.0	226.4	232.7	238.1
32.5°	175.9	180.4	184.0	187.6	193.9	199.3	205.6	211.0	217.3	224.6	230.9
35°	161.4	165.9	171.4	175.9	180.4	184.9	188.5	193.0	196.6	200.2	202.9
37.5°	152.4	156.9	160.5	164.1	165.9	167.7	168.6	170.4	172.3	174.1	175.0
40°	145.2	144.3	144.3	143.4	145.2	147.9	149.7	151.5	156.9	161.4	166.8
42.5°	126.3	123.6	121.7	119.0	123.6	127.2	131.7	135.3	142.5	149.7	156.9
45°	107.3	105.5	102.8	101.0	107.3	113.6	119.9	126.3	134.4	141.6	149.7
47.5°	88.4	89.3	89.3	90.2	96.5	102.8	108.2	114.5	122.7	130.8	138.9
50°	74.0	75.8	77.6	79.4	85.7	91.1	97.4	102.8	111.8	119.9	129.0
52.5°	64.9	67.6	69.4	72.1	77.6	83.9	89.3	94.7	102.8	110.9	119.0
55°	58.6	62.2	64.9	67.6	72.1	76.7	81.2	85.7	93.8	101.9	109.1
57.5°	51.4	54.1	56.8	59.5	64.0	68.5	72.1	76.7	83.9	92.0	99.2
60°	45.1	46.9	49.6	51.4	55.0	59.5	63.1	66.7	74.0	81.2	87.5
62.5°	39.7	41.5	42.4	43.3	46.9	50.5	54.1	57.7	64.0	71.2	77.6
65°	35.2	36.1	36.1	37.0	39.7	43.3	46.0	48.7	55.9	62.2	69.4
67.5°	29.8	30.7	30.7	30.7	33.4	36.1	38.8	41.5	47.8	55.0	61.3
70°	23.4	24.3	24.3	24.3	27.1	30.7	33.4	36.1	41.5	46.9	52.3
72.5°	18.0	18.0	18.9	18.9	21.6	25.3	28.0	30.7	35.2	39.7	44.2
75°	11.7	12.6	12.6	13.5	16.2	19.8	22.5	25.3	29.8	34.3	37.9
77.5°	4.5	6.3	7.2	8.1	10.8	13.5	16.2	18.9	22.5	27.1	30.7
80°	0.0	0.9	0.9	0.9	2.7	3.6	5.4	6.3	9.0	12.6	15.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P597169  
 CATALOG NUMBER: MSA-SA4D-835-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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	1726.1	1775.7	1825.3	1874.9	1924.5	1985.9	2047.2	2056.2	2065.2	2054.4	2044.5
5°	1783.9	1808.2	1831.7	1856.0	1879.4	1949.8	2019.2	2020.1	2020.1	2021.0	2021.0
7.5°	1414.1	1434.8	1455.6	1475.4	1496.2	1542.2	1588.2	1605.3	1621.5	1617.9	1614.3
10°	1026.3	1053.4	1079.5	1106.6	1132.7	1175.1	1217.5	1233.7	1249.1	1298.7	1349.2
12.5°	880.2	906.4	932.5	957.8	983.9	1027.2	1070.5	1102.1	1132.7	1163.4	1194.0
15°	717.0	737.7	759.4	780.1	800.8	820.7	840.5	879.3	917.2	947.8	978.5
17.5°	545.6	554.6	562.8	571.8	579.9	588.9	597.9	614.2	629.5	656.5	682.7
20°	400.4	407.6	414.8	421.2	428.4	437.4	446.4	458.1	469.0	475.3	480.7
22.5°	327.4	338.2	349.0	358.9	369.8	376.1	382.4	386.0	389.6	392.3	395.0
25°	294.9	304.8	313.8	323.8	332.8	335.5	338.2	345.4	352.6	352.6	352.6
27.5°	257.9	271.5	285.9	299.4	312.9	316.5	319.3	322.0	323.8	320.2	315.6
30°	243.5	257.0	270.6	283.2	296.7	302.1	306.6	309.3	312.0	307.5	303.0
32.5°	237.2	249.8	261.5	274.2	285.9	293.1	299.4	306.6	312.9	313.8	315.6
35°	206.5	214.6	223.7	231.8	239.9	243.5	247.1	249.8	251.6	251.6	251.6
37.5°	176.8	187.6	199.3	210.1	221.0	229.1	237.2	238.1	238.1	239.9	242.6
40°	171.4	182.2	193.0	202.9	213.7	222.8	230.9	231.8	232.7	234.5	236.3
42.5°	164.1	175.9	187.6	199.3	211.0	220.1	228.2	228.2	227.3	230.0	231.8
45°	156.9	168.6	179.5	191.2	202.0	213.7	224.6	221.9	218.2	222.8	226.4
47.5°	147.0	159.6	172.3	184.0	196.6	207.4	217.3	215.5	212.8	217.3	221.9
50°	137.1	149.7	162.3	175.0	187.6	199.3	210.1	208.3	206.5	211.9	216.4
52.5°	127.2	139.8	153.3	165.9	178.6	188.5	197.5	196.6	195.7	201.1	207.4
55°	117.2	129.0	141.6	153.3	165.0	175.9	185.8	184.0	182.2	186.7	191.2
57.5°	106.4	118.1	129.0	140.7	151.5	160.5	168.6	165.9	163.2	168.6	174.1
60°	94.7	105.5	116.3	126.3	137.1	144.3	150.6	148.8	146.1	151.5	156.9
62.5°	83.9	93.8	103.7	112.7	122.7	128.1	133.5	131.7	129.9	135.3	141.6
65°	75.8	83.9	91.1	99.2	106.4	111.8	117.2	114.5	111.8	118.1	123.6
67.5°	67.6	74.0	81.2	87.5	93.8	98.3	102.8	101.0	98.3	102.8	107.3
70°	57.7	64.0	70.3	75.8	82.1	86.6	91.1	88.4	84.8	89.3	93.8
72.5°	48.7	54.1	59.5	64.0	69.4	73.0	76.7	74.0	71.2	74.9	78.5
75°	42.4	46.9	51.4	55.0	59.5	61.3	63.1	62.2	60.4	64.0	66.7
77.5°	34.3	37.9	42.4	46.0	49.6	49.6	49.6	50.5	50.5	54.1	58.6
80°	18.0	21.6	25.3	28.0	31.6	31.6	30.7	32.5	33.4	37.9	42.4
82.5°	0.0	2.7	5.4	8.1	10.8	9.9	8.1	9.0	9.0	10.8	12.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-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: P597169

CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	2033.7	2022.8	2015.6	2009.3	2002.1	1994.9	2003.9	2012.9	2021.0	2030.1	2057.1
5°	2021.9	2021.9	2015.6	2009.3	2003.0	1996.7	2010.2	2022.8	2036.4	2049.0	2048.1
7.5°	1609.8	1606.2	1644.1	1681.0	1718.9	1755.9	1765.8	1775.7	1784.8	1794.7	1792.0
10°	1398.8	1448.4	1464.6	1480.8	1497.1	1513.3	1533.1	1553.0	1572.8	1592.7	1599.9
12.5°	1224.7	1255.4	1307.7	1359.1	1411.4	1462.8	1488.9	1516.0	1542.2	1568.3	1619.7
15°	1009.2	1039.8	1084.9	1130.0	1175.1	1220.2	1261.7	1304.1	1345.6	1387.0	1449.3
17.5°	709.8	735.9	770.2	804.4	837.8	872.1	936.1	1000.1	1064.2	1128.2	1194.0
20°	487.0	492.4	508.6	525.8	542.0	558.2	616.0	674.6	732.3	790.0	876.6
22.5°	396.8	399.5	407.6	415.8	423.0	431.1	460.8	491.5	521.3	551.0	621.4
25°	351.7	351.7	357.1	362.5	368.0	373.4	389.6	405.8	421.2	437.4	482.5
27.5°	312.0	307.5	315.6	323.8	331.9	340.0	351.7	364.3	376.1	387.8	418.5
30°	298.5	294.0	303.9	313.8	323.8	333.7	345.4	357.1	368.0	379.7	400.4
32.5°	316.5	317.5	321.1	324.7	327.4	331.0	336.4	342.7	348.1	353.5	371.6
35°	251.6	251.6	257.9	264.2	269.7	276.0	285.9	295.8	305.7	315.6	334.6
37.5°	244.4	246.2	251.6	257.9	263.3	268.8	281.4	294.9	307.5	320.2	335.5
40°	237.2	239.0	246.2	253.4	260.6	267.8	280.5	292.2	304.8	316.5	331.0
42.5°	234.5	236.3	245.3	255.2	264.2	273.3	284.1	294.9	304.8	315.6	335.5
45°	230.9	234.5	245.3	257.0	267.8	278.7	288.6	298.5	308.4	318.4	342.7
47.5°	225.5	230.0	242.6	254.3	266.9	278.7	297.6	317.5	336.4	355.3	367.1
50°	221.9	226.4	239.9	253.4	266.9	280.5	311.1	341.8	371.6	402.2	395.9
52.5°	212.8	218.2	235.4	252.5	269.7	286.8	313.8	340.9	368.0	395.0	382.4
55°	195.7	200.2	220.1	239.9	258.8	278.7	298.5	318.4	337.3	357.1	342.7
57.5°	178.6	184.0	202.9	221.9	239.9	258.8	268.8	278.7	288.6	298.5	293.1
60°	162.3	167.7	193.0	218.2	243.5	268.8	259.7	250.7	240.8	231.8	238.1
62.5°	147.0	152.4	176.8	200.2	224.6	248.0	235.4	222.8	210.1	197.5	207.4
65°	129.9	135.3	144.3	154.2	163.2	172.3	171.4	169.5	168.6	166.8	177.7
67.5°	111.8	116.3	120.8	126.3	130.8	135.3	138.0	141.6	144.3	147.0	156.0
70°	97.4	101.9	107.3	111.8	117.2	121.7	123.6	125.4	126.3	128.1	136.2
72.5°	81.2	84.8	92.0	99.2	105.5	112.7	113.6	113.6	114.5	114.5	120.8
75°	70.3	73.0	78.5	83.9	88.4	93.8	96.5	99.2	101.0	103.7	107.3
77.5°	62.2	65.8	67.6	68.5	70.3	71.2	73.0	74.9	76.7	78.5	79.4
80°	46.0	50.5	52.3	53.2	55.0	55.9	55.9	55.0	55.0	54.1	55.0
82.5°	14.4	16.2	18.9	21.6	24.3	27.1	28.0	28.9	28.9	29.8	28.9
85°	2.7	3.6	5.4	7.2	8.1	9.9	9.0	7.2	6.3	4.5	3.6
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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-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: P597169

CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	2084.2	2110.3	2137.4	2126.6	2115.7	2104.9	2094.1	2095.9	2098.6	2100.4	2102.2
5°	2047.2	2045.4	2044.5	2075.2	2106.7	2137.4	2168.0	2201.4	2235.7	2269.0	2302.4
7.5°	1789.3	1785.7	1783.0	1822.6	1862.3	1902.0	1941.7	1987.7	2034.6	2080.6	2126.6
10°	1607.1	1614.3	1621.5	1637.8	1654.9	1671.1	1687.4	1731.5	1775.7	1819.0	1863.2
12.5°	1671.1	1721.6	1773.0	1783.0	1792.0	1801.9	1810.9	1817.2	1823.5	1829.8	1836.2
15°	1512.4	1574.6	1636.9	1663.0	1688.3	1714.4	1739.7	1806.4	1872.2	1939.0	2004.8
17.5°	1259.9	1324.8	1390.6	1469.1	1547.6	1626.0	1704.5	1776.6	1848.8	1920.9	1993.1
20°	964.1	1050.7	1137.2	1236.4	1336.5	1435.7	1534.9	1607.1	1678.3	1750.5	1821.7
22.5°	692.6	763.0	833.3	953.3	1072.3	1192.2	1311.3	1436.6	1562.9	1688.3	1813.6
25°	527.6	571.8	616.9	735.0	853.1	970.4	1088.5	1260.8	1433.0	1605.3	1777.5
27.5°	448.2	478.9	508.6	615.1	721.5	827.0	933.4	1138.1	1342.9	1547.6	1752.3
30°	422.1	442.8	463.5	553.7	644.8	735.0	825.2	1032.6	1240.0	1447.5	1654.9
32.5°	389.6	406.7	424.8	504.1	583.5	662.0	741.3	944.2	1147.1	1349.2	1552.1
35°	352.6	371.6	389.6	469.0	548.3	626.8	706.1	916.3	1126.4	1336.5	1546.7
37.5°	349.9	365.2	379.7	471.7	564.6	656.5	748.5	958.7	1168.8	1378.0	1588.2
40°	346.3	360.7	375.2	469.0	561.9	655.6	748.5	968.6	1188.6	1408.7	1628.7
42.5°	355.3	374.3	394.1	477.1	560.0	642.1	725.1	956.9	1188.6	1419.5	1651.3
45°	368.0	392.3	416.7	492.4	568.2	643.9	719.7	971.3	1222.9	1473.6	1725.2
47.5°	379.7	391.4	403.1	475.3	546.5	618.7	689.9	946.9	1204.0	1461.0	1718.0
50°	390.5	384.2	377.9	457.2	536.6	615.1	694.4	939.7	1184.1	1429.4	1673.8
52.5°	368.9	356.2	342.7	427.5	512.2	596.1	680.9	928.0	1175.1	1422.2	1669.3
55°	328.3	313.8	299.4	383.3	466.3	550.1	633.1	879.3	1125.5	1371.7	1617.9
57.5°	286.8	281.4	275.1	339.1	403.1	466.3	530.3	803.5	1077.7	1351.0	1624.2
60°	244.4	249.8	256.1	302.1	348.1	393.2	439.2	707.0	974.0	1241.8	1508.8
62.5°	216.4	226.4	235.4	274.2	313.8	352.6	391.4	643.9	896.4	1149.0	1401.5
65°	189.4	200.2	211.0	257.0	303.9	349.9	395.9	609.6	823.4	1037.1	1250.9
67.5°	165.0	173.2	182.2	242.6	303.0	363.4	423.9	598.8	772.9	947.8	1121.9
70°	144.3	151.5	159.6	230.0	300.3	370.7	441.0	589.8	739.5	888.3	1037.1
72.5°	127.2	133.5	139.8	211.0	282.3	353.5	424.8	557.3	689.0	821.6	953.3
75°	110.9	113.6	117.2	177.7	237.2	297.6	357.1	445.5	534.8	623.2	711.6
77.5°	80.3	80.3	81.2	99.2	116.3	134.4	151.5	206.5	261.5	315.6	370.7
80°	55.0	55.9	55.9	63.1	69.4	76.7	83.0	94.7	105.5	117.2	128.1
82.5°	28.0	26.2	25.3	32.5	39.7	46.9	54.1	56.8	58.6	61.3	63.1
85°	2.7	0.9	0.0	4.5	9.0	13.5	18.0	21.6	25.3	28.9	32.5
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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-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: P597169

CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	2095.0	2087.8	2080.6	2073.3	2117.5	2162.6	2206.8	2251.0	2376.4	2458.4	2449.4
5°	2334.9	2367.3	2399.8	2432.3	2484.6	2537.8	2590.1	2642.4	2828.2	2941.8	2958.1
7.5°	2177.1	2226.7	2277.2	2326.8	2427.8	2527.9	2628.9	2729.0	2881.4	2999.5	3066.3
10°	1920.0	1976.8	2032.8	2089.6	2203.2	2317.7	2431.4	2545.0	2716.4	2879.6	2963.5
12.5°	1925.4	2014.7	2104.0	2193.3	2292.5	2391.7	2490.0	2589.2	2693.8	2748.8	2867.0
15°	2075.2	2145.5	2215.8	2286.2	2416.0	2545.9	2674.9	2804.7	2867.0	2999.5	3137.5
17.5°	2130.2	2268.1	2405.2	2542.3	2704.6	2866.1	3028.4	3189.8	3307.1	3491.0	3633.5
20°	2028.3	2234.8	2440.4	2646.9	2869.7	3092.4	3315.2	3537.9	3666.0	3841.0	4061.0
22.5°	2032.8	2251.9	2470.2	2689.3	2996.8	3303.5	3611.0	3917.6	4261.2	4598.5	4705.8
25°	2064.3	2351.1	2637.0	2923.8	3279.1	3634.4	3989.8	4345.1	4759.9	5114.4	5256.9
27.5°	2075.2	2398.0	2720.0	3042.8	3547.9	4052.9	4557.9	5063.0	5558.1	5958.5	6110.9
30°	2049.0	2444.0	2838.1	3232.2	3851.8	4471.4	5090.9	5710.5	6180.4	6646.6	6836.0
32.5°	2055.3	2558.5	3061.8	3565.0	4294.6	5025.1	5754.7	6484.3	6784.6	7204.9	7538.5
35°	2098.6	2650.5	3201.6	3753.5	4560.6	5367.8	6174.9	6982.1	7474.5	7918.2	8201.4
37.5°	2199.6	2811.1	3421.6	4033.1	5025.1	6018.0	7010.1	8002.1	8764.1	9526.2	9656.1
40°	2274.5	2920.2	3565.9	4211.6	5363.3	6514.9	7666.6	8818.3	9680.4	10507.4	10595.8
42.5°	2359.2	3066.3	3774.2	4481.3	5769.1	7057.0	8344.8	9632.6	10631.0	11474.2	11532.8
45°	2452.1	3179.9	3906.8	4633.7	5982.9	7331.1	8680.3	10028.5	11194.6	12174.0	11953.1
47.5°	2496.3	3274.6	4052.9	4831.2	6277.8	7723.4	9170.0	10615.6	11661.8	12525.8	12267.8
50°	2530.6	3386.4	4243.2	5099.0	6615.9	8132.9	9649.8	11166.7	12215.5	13012.8	12608.7
52.5°	2627.1	3583.9	4541.7	5498.6	7112.0	8724.5	10337.9	11950.4	12965.0	13697.3	13130.9
55°	2720.9	3822.9	4925.9	6027.9	7763.1	9499.2	11234.3	12969.5	13979.5	14607.2	13837.9
57.5°	2839.0	4054.7	5269.5	6484.3	8340.3	10196.3	12051.4	13907.4	14894.9	15588.4	14789.4
60°	2808.4	4107.0	5406.6	6705.2	8595.5	10485.8	12376.0	14266.3	15439.6	16291.9	15749.9
62.5°	2689.3	3977.1	5264.1	6551.9	8408.8	10264.8	12121.7	13977.7	15383.7	16538.1	16355.9
65°	2448.5	3645.3	4842.9	6039.7	7812.7	9586.6	11359.7	13132.7	14867.9	16337.0	16401.9
67.5°	2132.0	3142.0	4151.2	5161.3	6815.3	8469.2	10122.3	11776.3	13824.4	15537.9	15730.9
70°	1796.5	2554.9	3314.3	4072.7	5528.3	6983.9	8438.6	9894.2	12023.4	13747.8	14112.1
72.5°	1440.2	1928.1	2415.1	2902.1	3952.8	5002.5	6053.2	7102.9	8976.1	10314.4	10950.2
75°	933.4	1155.3	1377.1	1599.0	2298.8	2997.7	3697.6	4396.5	5640.2	6625.9	7344.6
77.5°	415.8	460.8	505.0	550.1	1090.3	1630.5	2170.7	2711.0	3251.2	3846.4	4015.0
80°	148.8	168.6	189.4	209.2	474.4	740.4	1005.6	1270.7	1532.2	1839.8	1914.6
82.5°	62.2	62.2	61.3	60.4	155.1	249.8	344.5	439.2	507.7	583.5	597.9
85°	25.3	18.9	11.7	4.5	19.8	36.1	51.4	66.7	107.3	97.4	180.4
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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-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: P597169

CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	2415.1	2413.3	2411.5	2409.7	2407.9	2375.5	2343.9	2311.4	2279.9	2319.6	2359.2
5°	2931.9	2978.8	3025.7	3073.5	3120.4	3133.9	3147.4	3161.0	3174.5	3203.4	3232.2
7.5°	3122.2	3201.6	3280.0	3359.4	3437.8	3510.9	3583.0	3656.1	3729.1	3711.1	3693.1
10°	3056.4	3199.8	3343.1	3487.4	3630.8	3662.4	3694.0	3726.4	3758.0	3840.1	3922.1
12.5°	2985.1	3157.4	3329.6	3501.9	3674.1	3769.7	3864.4	3960.0	4055.6	4138.6	4221.5
15°	3323.3	3433.3	3543.4	3654.3	3764.3	3848.2	3931.2	4015.0	4098.0	4155.7	4212.5
17.5°	3767.9	3822.0	3876.1	3931.2	3985.3	4051.1	4116.9	4182.8	4248.6	4282.9	4317.1
20°	4237.8	4261.2	4284.7	4308.1	4331.6	4279.3	4227.0	4174.6	4122.3	4154.8	4186.4
22.5°	4709.4	4717.6	4726.6	4734.7	4742.8	4621.1	4499.3	4377.6	4255.8	4204.4	4153.0
25°	5435.4	5375.9	5316.4	5256.9	5197.3	5053.0	4908.8	4764.5	4620.2	4493.0	4365.8
27.5°	6221.8	6019.8	5818.7	5616.7	5415.6	5271.3	5127.0	4982.7	4838.4	4647.2	4456.0
30°	7014.6	6689.0	6364.3	6038.8	5714.1	5542.8	5371.4	5199.1	5027.8	4836.6	4646.3
32.5°	7741.5	7350.1	6958.7	6566.3	6174.9	5886.4	5597.8	5309.2	5020.6	4887.1	4753.6
35°	8343.9	7881.2	7418.6	6955.0	6492.4	6206.5	5920.6	5634.7	5348.9	5150.4	4952.9
37.5°	9373.8	8853.4	8333.1	7812.7	7292.3	6901.8	6512.2	6121.7	5731.2	5598.7	5466.1
40°	10323.4	9667.8	9012.2	8356.5	7700.9	7373.5	7047.0	6719.7	6393.2	6175.8	5959.4
42.5°	11078.3	10387.5	9697.6	9006.7	8315.9	7992.2	7669.3	7345.5	7021.8	6876.6	6732.3
45°	11241.5	10590.4	9940.2	9289.0	8637.9	8449.4	8261.8	8073.3	7885.8	7785.6	7686.4
47.5°	11563.5	10857.3	10152.1	9445.9	8739.8	8655.0	8570.3	8484.6	8399.8	8447.6	8495.4
50°	11743.9	11023.3	10302.7	9582.1	8861.5	8885.9	8909.3	8933.7	8958.0	9297.1	9635.3
52.5°	12093.8	11366.0	10638.2	9910.4	9182.6	9335.9	9488.3	9641.6	9794.1	10261.2	10727.5
55°	12718.7	12003.6	11288.4	10572.4	9857.2	10059.2	10261.2	10464.1	10666.1	11162.2	11657.3
57.5°	13644.9	12935.2	12226.3	11516.6	10807.7	11008.8	11210.0	11411.1	11612.2	12060.4	12507.7
60°	14811.0	14082.3	13354.6	12625.9	11898.1	11973.8	12048.7	12124.4	12200.2	12681.8	13162.5
62.5°	15719.2	15049.1	14380.0	13709.9	13040.7	12956.8	12873.9	12790.0	12707.0	13073.2	13438.4
65°	15930.2	15458.6	14987.8	14516.1	14044.5	13786.5	13529.5	13271.6	13013.7	13161.6	13309.5
67.5°	15326.0	15007.6	14690.2	14371.8	14053.5	13515.1	12976.7	12437.4	11899.0	11820.5	11742.0
70°	13923.6	13749.6	13576.4	13402.3	13229.2	12399.5	11570.7	10741.0	9912.2	9712.9	9513.6
72.5°	10987.2	11095.4	11203.6	11312.8	11421.0	10532.7	9645.3	8756.9	7868.6	7616.1	7364.5
75°	7747.8	8114.8	8481.9	8848.9	9216.0	8406.1	7597.2	6787.3	5977.4	5734.8	5493.2
77.5°	4200.8	4888.9	5577.0	6265.1	6953.2	6285.0	5617.6	4949.3	4281.1	4112.4	3944.7
80°	1991.3	2388.1	2784.0	3180.8	3577.6	3427.0	3276.4	3124.9	2974.3	3011.3	3048.2
82.5°	610.6	897.3	1184.1	1470.9	1757.7	1780.2	1801.9	1824.4	1847.0	1902.9	1957.9
85°	204.7	280.5	356.2	432.0	507.7	641.2	774.7	909.1	1042.5	956.0	870.3
87.5°	0.0	2.7	4.5	7.2	9.0	28.0	46.9	65.8	84.8	73.0	62.2
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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-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: P597169

CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	2399.8	2439.5	2440.4	2442.2	2443.1	2444.0	2448.5	2453.0	2458.4	2462.9	2433.2
5°	3262.0	3290.8	3237.6	3184.4	3130.3	3077.1	3124.9	3172.7	3220.5	3268.3	3247.6
7.5°	3674.1	3656.1	3649.8	3644.4	3638.1	3632.6	3650.7	3668.7	3686.8	3704.8	3703.0
10°	4004.2	4086.3	4106.1	4126.0	4146.7	4166.5	4125.0	4083.6	4042.1	4000.6	3983.5
12.5°	4304.5	4387.5	4453.3	4519.2	4585.9	4651.7	4592.2	4533.6	4474.1	4415.4	4359.5
15°	4270.2	4327.1	4381.2	4435.3	4489.4	4543.5	4523.7	4504.7	4484.9	4465.0	4456.0
17.5°	4352.3	4386.6	4374.0	4361.3	4347.8	4335.2	4328.9	4323.5	4317.1	4310.8	4289.2
20°	4218.8	4251.3	4243.2	4236.0	4227.9	4219.7	4214.3	4208.9	4203.5	4198.1	4181.0
22.5°	4101.6	4050.2	4036.7	4024.0	4010.5	3997.9	3999.7	4001.5	4002.4	4004.2	4081.8
25°	4238.7	4111.5	4061.9	4012.3	3961.8	3912.2	3934.8	3956.4	3978.9	4001.5	4113.3
27.5°	4263.9	4072.7	3993.4	3914.0	3834.7	3755.3	3836.5	3917.6	3998.8	4080.0	4261.2
30°	4455.1	4264.8	4153.9	4043.9	3933.0	3822.9	3926.6	4030.4	4134.1	4237.8	4434.4
32.5°	4619.3	4485.8	4406.4	4327.1	4247.7	4168.3	4172.8	4176.5	4181.0	4185.5	4462.3
35°	4754.5	4557.0	4484.9	4413.6	4341.5	4270.2	4377.6	4484.9	4592.2	4699.5	4948.4
37.5°	5333.5	5201.0	5068.4	4936.7	4804.1	4672.5	4758.1	4843.8	4930.4	5016.1	5291.1
40°	5742.1	5525.6	5491.3	5458.0	5423.7	5390.3	5434.5	5477.8	5522.0	5566.2	5807.0
42.5°	6587.1	6441.9	6349.0	6257.0	6164.1	6072.1	6107.3	6142.5	6178.6	6213.7	6441.9
45°	7586.3	7486.2	7424.9	7363.6	7301.4	7240.0	7186.8	7134.5	7081.3	7029.0	7260.8
47.5°	8543.2	8591.0	8726.3	8860.6	8995.9	9130.3	9020.3	8910.2	8799.3	8689.3	8690.2
50°	9974.4	10312.6	10381.2	10448.8	10517.3	10585.0	10350.5	10116.0	9880.6	9646.2	9618.2
52.5°	11194.6	11660.9	11685.2	11709.6	11734.8	11759.2	11664.5	11569.8	11474.2	11379.5	11127.9
55°	12153.3	12648.4	12681.8	12714.2	12747.6	12780.1	12697.1	12615.0	12532.1	12449.1	12194.8
57.5°	12955.9	13403.3	13423.1	13442.0	13461.9	13481.7	13488.0	13494.3	13501.6	13507.9	13164.3
60°	13644.0	14125.6	14085.9	14047.2	14007.5	13968.7	13909.2	13849.7	13790.1	13730.6	13508.8
62.5°	13804.6	14170.7	14109.4	14049.0	13987.6	13927.2	13876.7	13827.1	13776.6	13726.1	13584.5
65°	13457.4	13605.3	13542.1	13479.0	13415.0	13351.8	13319.4	13287.8	13255.3	13222.9	13204.8
67.5°	11662.7	11584.2	11659.1	11733.9	11808.8	11883.6	11985.5	12087.5	12190.3	12292.2	12232.7
70°	9313.4	9114.1	9197.0	9279.1	9362.1	9444.1	9598.4	9752.6	9907.7	10061.9	10020.4
72.5°	7112.0	6859.4	6871.2	6882.9	6895.5	6907.2	6902.7	6899.1	6894.6	6890.1	6962.3
75°	5250.6	5008.0	4893.4	4778.9	4664.4	4549.8	4521.9	4493.9	4465.9	4438.0	4572.4
77.5°	3776.0	3608.3	3529.8	3452.3	3373.8	3296.3	3335.9	3375.6	3416.2	3455.9	3502.8
80°	3086.1	3123.1	3062.7	3003.2	2942.7	2882.3	2927.4	2971.6	3016.7	3061.8	2922.0
82.5°	2013.8	2068.8	1883.1	1697.3	1511.5	1325.7	1438.4	1551.2	1664.8	1777.5	1719.8
85°	783.7	698.0	595.2	493.3	390.5	287.7	374.3	460.8	547.4	634.0	691.7
87.5°	50.5	39.7	31.6	23.4	14.4	6.3	13.5	20.7	28.9	36.1	60.4
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



REPORT NUMBER: P597169  
 CATALOG NUMBER: MSA-SA4D-835-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: P597169

CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5	1906.5
2.5°	2404.3	2374.6	2345.7	2288.9	2232.1	2175.3	2118.4	2197.8	2277.2	2356.5	2435.9
5°	3227.7	3207.0	3187.1	3192.5	3197.9	3204.3	3209.7	3221.4	3233.1	3243.9	3255.7
7.5°	3702.1	3700.3	3698.5	3657.0	3615.5	3573.1	3531.6	3552.4	3573.1	3593.9	3614.6
10°	3967.2	3950.1	3933.0	3841.9	3750.8	3658.8	3567.7	3528.0	3487.4	3447.8	3408.1
12.5°	4303.6	4246.8	4190.9	4093.5	3997.0	3899.6	3802.2	3766.1	3729.1	3693.1	3656.1
15°	4447.9	4438.9	4430.8	4361.3	4291.0	4221.5	4151.2	4027.6	3903.2	3779.6	3656.1
17.5°	4267.5	4245.0	4223.3	4333.4	4442.5	4552.5	4662.5	4534.5	4406.4	4278.4	4150.3
20°	4163.8	4146.7	4129.6	4334.3	4538.1	4742.8	4946.6	4889.8	4832.1	4775.3	4718.5
22.5°	4159.3	4237.8	4315.3	4494.8	4673.4	4852.8	5031.4	5129.7	5228.9	5327.2	5425.5
25°	4225.2	4337.9	4449.7	4747.3	5044.9	5343.4	5641.1	5753.8	5865.6	5978.3	6090.2
27.5°	4441.6	4622.9	4803.2	5063.0	5322.7	5583.3	5843.1	6089.3	6336.4	6582.6	6828.8
30°	4630.1	4826.7	5023.3	5332.6	5641.1	5950.4	6258.8	6567.3	6875.7	7184.1	7492.5
32.5°	4739.2	5017.0	5293.8	5669.9	6045.1	6421.2	6797.2	7135.4	7473.6	7810.9	8149.1
35°	5197.3	5447.2	5696.1	6111.8	6527.6	6944.2	7360.0	7778.4	8196.9	8614.4	9032.9
37.5°	5566.2	5842.2	6117.2	6571.8	7025.4	7479.9	7934.5	8512.5	9091.5	9669.6	10247.7
40°	6047.8	6288.6	6529.4	6955.0	7379.8	7805.5	8231.2	8964.4	9697.6	10429.9	11163.1
42.5°	6669.2	6897.3	7125.5	7580.9	8036.4	8491.8	8947.2	9758.9	10570.5	11381.3	12193.0
45°	7492.5	7725.2	7957.0	8319.5	8682.1	9044.6	9407.2	10270.2	11132.4	11995.5	12857.6
47.5°	8691.1	8692.0	8692.9	8954.4	9216.0	9478.4	9739.9	10609.3	11477.8	12347.2	13215.7
50°	9590.2	9561.4	9533.4	9668.7	9803.1	9938.4	10073.6	10873.6	11674.4	12474.3	13274.3
52.5°	10877.2	10625.6	10374.8	10455.1	10534.5	10614.7	10694.1	11371.4	12049.6	12726.9	13404.2
55°	11941.4	11687.0	11432.7	11403.0	11373.2	11343.4	11313.7	11936.8	12560.0	13183.2	13806.4
57.5°	12821.6	12478.0	12135.3	12066.7	11999.1	11930.5	11862.0	12519.4	13176.0	13833.4	14490.0
60°	13287.8	13066.0	12844.1	12799.9	12754.8	12710.6	12665.5	13204.8	13744.1	14283.5	14822.8
62.5°	13443.8	13302.2	13161.6	13244.5	13327.5	13411.4	13494.3	13731.5	13967.8	14205.0	14441.3
65°	13187.7	13169.7	13151.6	13322.1	13491.6	13662.1	13832.5	13773.9	13714.4	13655.8	13597.1
67.5°	12174.0	12114.5	12055.9	12430.2	12803.5	13177.8	13552.1	13268.0	12983.0	12698.9	12414.8
70°	9978.9	9936.6	9895.1	10434.4	10973.7	11513.9	12053.2	11708.7	11364.2	11019.7	10675.2
72.5°	7033.5	7105.7	7177.8	7813.6	8448.5	9084.3	9719.2	9372.0	9024.8	8677.6	8330.4
75°	4705.8	4840.2	4974.6	5629.3	6284.1	6939.7	7594.5	7186.8	6779.2	6371.5	5963.9
77.5°	3549.7	3596.6	3643.5	4057.4	4471.4	4886.2	5300.2	4963.8	4626.5	4290.1	3952.8
80°	2782.2	2641.5	2501.7	2637.9	2774.1	2910.3	3046.4	2845.3	2644.2	2444.0	2242.9
82.5°	1662.1	1604.4	1546.7	1620.6	1693.7	1767.6	1841.6	1755.0	1667.5	1580.9	1493.5
85°	748.5	806.3	863.1	937.9	1011.9	1086.7	1161.6	1040.7	919.9	799.0	678.2
87.5°	83.9	108.2	132.6	164.1	195.7	227.3	258.8	202.0	144.3	87.5	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: P597169  
 CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

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





REPORT NUMBER: P597169  
 CATALOG NUMBER: MSA-SA4D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	1906.5	1906.5
2.5°	2481.9	2527.9
5°	3254.8	3253.0
7.5°	3560.5	3505.5
10°	3357.6	3307.1
12.5°	3527.1	3398.2
15°	3558.7	3461.3
17.5°	3991.6	3831.9
20°	4513.7	4308.1
22.5°	5144.1	4861.9
25°	5754.7	5419.2
27.5°	6627.7	6425.7
30°	7288.7	7084.0
32.5°	8010.2	7871.3
35°	8894.9	8756.0
37.5°	10283.8	10318.9
40°	11184.7	11206.4
42.5°	12276.8	12360.7
45°	12951.4	13045.2
47.5°	13346.4	13477.2
50°	13485.3	13696.4
52.5°	13664.8	13924.5
55°	14095.9	14385.4
57.5°	14720.8	14951.7
60°	14833.6	14844.4
62.5°	14274.4	14107.6
65°	13419.5	13241.8
67.5°	12307.5	12199.3
70°	10532.7	10390.2
72.5°	8065.2	7800.1
75°	5635.6	5307.4
77.5°	3780.5	3608.3
80°	2248.3	2252.8
82.5°	1534.9	1575.5
85°	670.1	661.1
87.5°	21.6	11.7
90°	0.0	0.0
92.5°	0.0	0.0
95°	0.0	0.0
97.5°	0.0	0.0
100°	0.0	0.0
102.5°	0.0	0.0
105°	0.0	0.0
107.5°	0.0	0.0
110°	0.0	0.0

REPORT NUMBER: P597169  
CATALOG NUMBER: MSA-SA4D-835-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)