

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: P368591

Luminaire Tested: **MSA-SA4D-727-U-SLR-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368591
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-SA4D-727-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: 16049 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

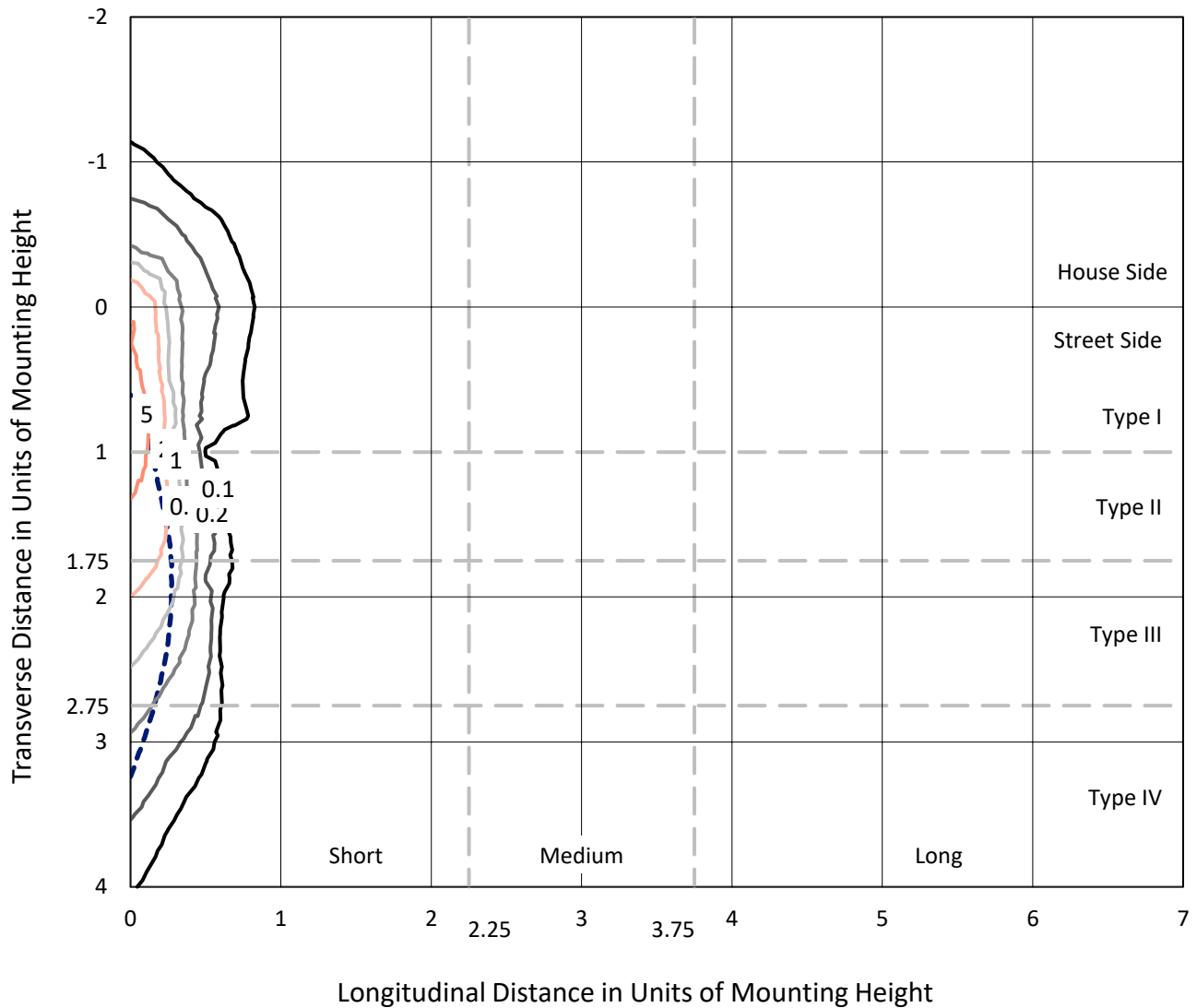
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

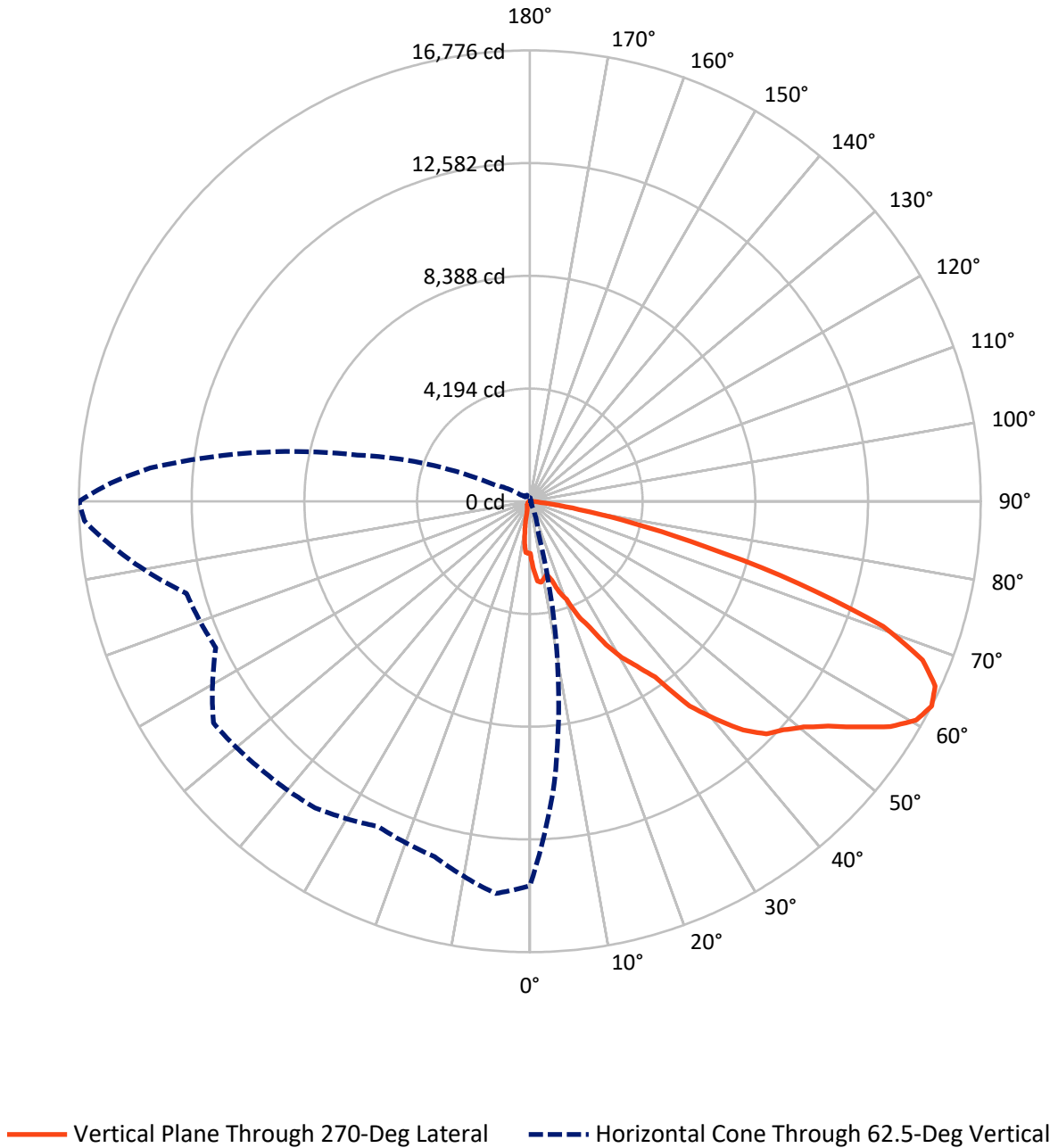
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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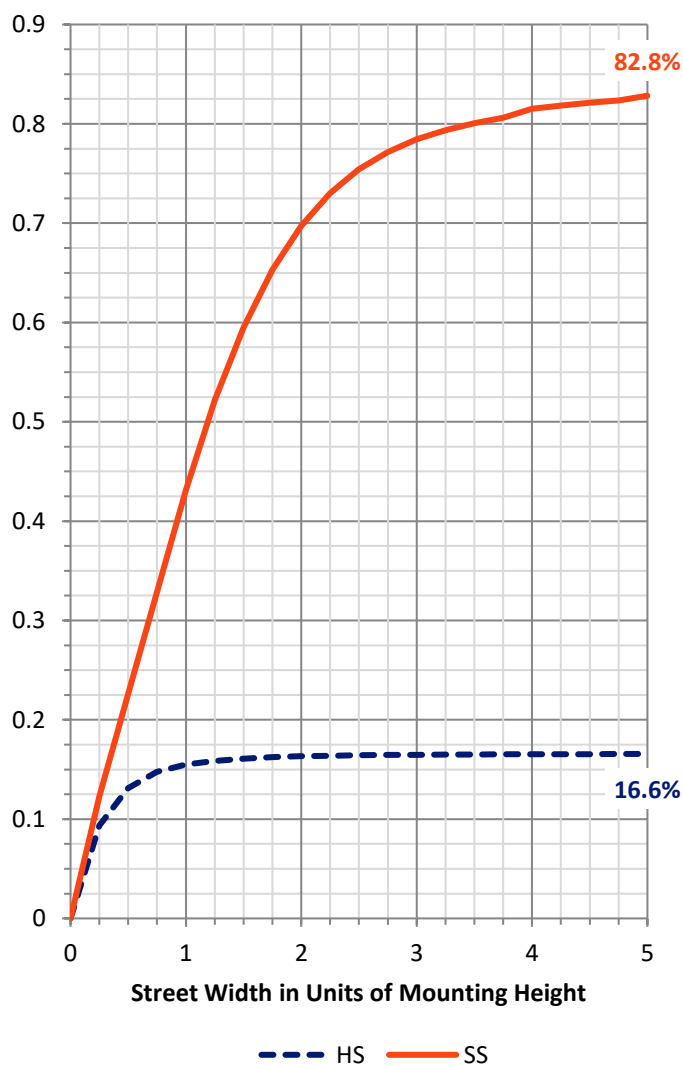
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2680.0	0.0	2680.0
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	13369.0	0.0	13369.0
	% Fixture	83.3	0.0	83.3
Total	Lumens	16049.0	0.0	16049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	1.3
10°-20°	564.4	3.5
20°-30°	912.3	5.7
30°-40°	1528.0	9.5
40°-50°	2497.9	15.6
50°-60°	3697.8	23.0
60°-70°	4245.1	26.5
70°-80°	2099.0	13.1
80°-90°	288.3	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°	16049.0	100.0
0°-180°	16049.0	100.0

Coefficient of Utilization

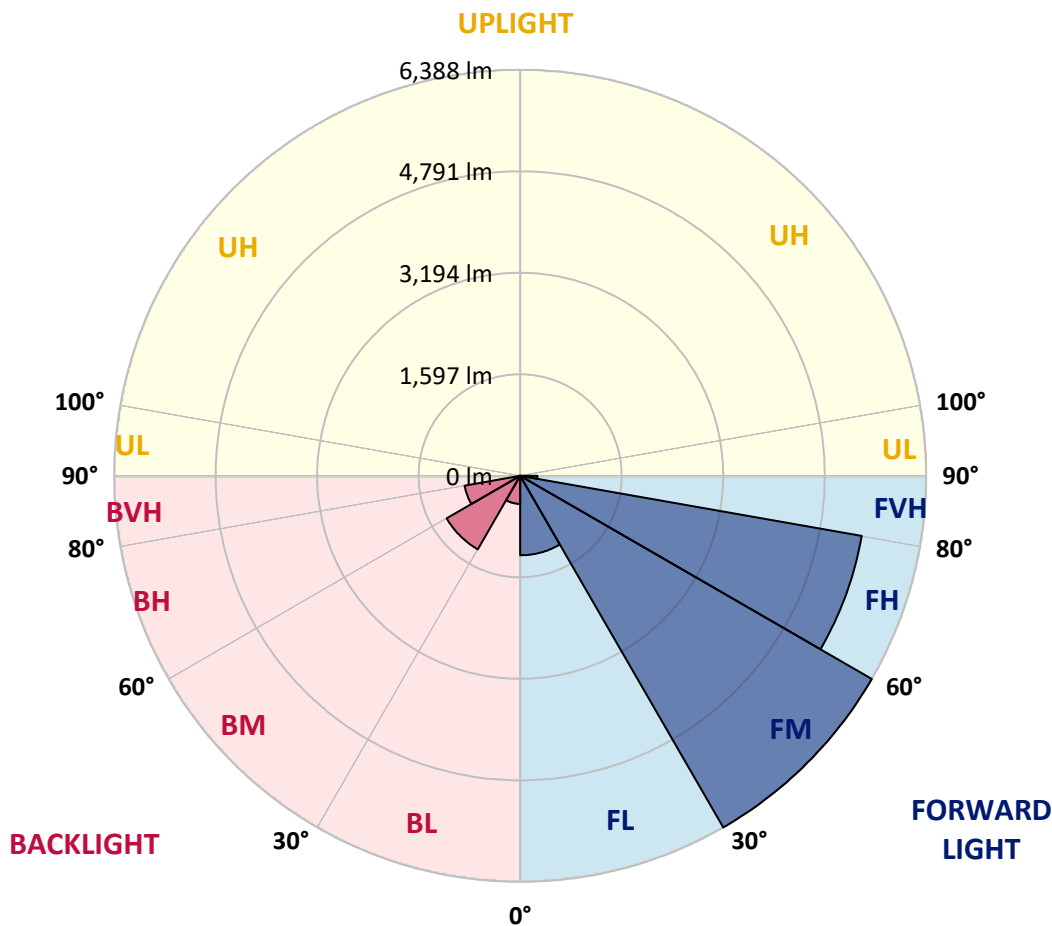


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.3	7.8			
FM (30°-60°)	6388.3	39.8			
FH (60°-80°)	5457.4	34.0			G3/7500
FVH (80°-90°)	273.0	1.7			G3/500
BL (0°-30°)	442.5	2.8	B1/500		
BM (30°-60°)	1335.4	8.3	B2/2500		
BH (60°-80°)	886.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	15.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	2564.3	2596.3	2627.4	2568.0	2508.5	2449.0	2389.6	2336.5	2283.5	2229.5	2176.4
5°	3299.8	3241.3	3182.7	3102.2	3021.7	2941.2	2860.7	2823.2	2785.7	2748.2	2710.7
7.5°	3556.0	3451.7	3346.5	3275.1	3204.7	3133.3	3062.0	2949.5	2836.0	2723.5	2610.0
10°	3354.7	3244.0	3132.4	3070.2	3008.0	2945.8	2883.6	2743.6	2602.7	2462.8	2321.9
12.5°	3447.1	3327.3	3207.4	3079.4	2951.3	2823.2	2695.1	2588.1	2480.1	2373.1	2265.2
15°	3511.2	3373.9	3235.8	3089.4	2943.1	2796.7	2650.3	2524.1	2398.7	2272.5	2146.2
17.5°	3887.2	3690.5	3493.8	3268.7	3043.7	2818.6	2593.6	2447.2	2301.7	2155.4	2009.0
20°	4370.2	4091.2	3811.2	3506.6	3202.0	2897.3	2592.7	2410.6	2228.6	2046.5	1864.5
22.5°	4931.9	4583.4	4233.9	3857.9	3482.8	3106.8	2730.8	2469.2	2207.5	1945.9	1684.2
25°	5497.3	5182.6	4867.9	4362.0	3856.1	3349.2	2843.3	2511.2	2178.2	1846.2	1513.2
27.5°	6518.3	5955.6	5393.0	4749.0	4105.8	3461.8	2817.7	2437.1	2056.6	1675.1	1294.5
30°	7186.1	6753.4	6319.7	5468.9	4619.0	3768.2	2917.4	2435.3	1953.2	1470.2	988.0
32.5°	7984.8	7351.7	6717.7	5794.6	4871.5	3948.5	3025.4	2459.1	1891.9	1325.6	758.4
35°	8882.2	8193.3	7504.5	6335.3	5166.1	3996.0	2826.9	2278.0	1729.1	1180.1	631.2
37.5°	10467.6	9314.9	8162.2	6799.1	5435.1	4072.0	2707.9	2159.9	1611.0	1063.0	514.1
40°	11367.8	10267.3	9166.7	7463.3	5759.9	4056.4	2353.0	1866.3	1380.5	893.8	407.1
42.5°	12538.8	11142.8	9745.8	7842.0	5938.3	4034.5	2130.7	1680.6	1230.5	779.4	329.3
45°	13233.2	11651.5	10069.7	8006.7	5943.7	3880.8	1817.8	1428.1	1038.3	648.6	258.9
47.5°	13671.4	12085.1	10498.7	8283.9	6070.0	3855.2	1640.3	1281.7	923.1	564.5	205.8
50°	13893.7	12302.8	10711.0	8434.9	6158.7	3881.7	1605.6	1248.8	891.1	534.3	176.6
52.5°	14125.2	12591.0	11055.9	8696.5	6337.1	3977.7	1618.4	1254.3	891.1	527.0	162.8
55°	14592.7	13079.5	11565.5	9071.6	6577.7	4083.9	1590.0	1231.4	872.8	513.2	154.6
57.5°	15167.2	13549.8	11931.4	9346.0	6760.7	4175.3	1590.0	1229.6	869.1	507.7	147.3
60°	15058.3	13302.7	11546.2	9037.7	6529.2	4019.8	1511.3	1168.3	826.1	483.0	140.0
62.5°	14310.9	12405.3	10498.7	8180.5	5861.4	3543.2	1224.1	950.5	677.0	402.5	129.0
65°	13432.7	11409.9	9386.3	7252.9	5118.6	2985.1	850.8	667.8	484.0	301.0	117.1
67.5°	12375.1	10217.9	8060.7	6163.3	4266.8	2369.4	472.1	380.6	289.1	196.7	105.2
70°	10539.9	8313.2	6085.5	4627.3	3169.9	1711.7	253.4	214.1	174.7	135.4	96.1
72.5°	7912.5	5872.4	3832.3	2911.0	1990.7	1069.5	148.2	133.6	118.0	103.4	87.8
75°	5383.9	3855.2	2326.4	1771.1	1216.7	661.4	106.1	98.8	90.6	83.3	75.0
77.5°	3660.3	2647.6	1634.8	1247.8	860.9	473.9	86.9	82.3	77.8	72.3	67.7
80°	2285.3	1564.4	843.5	649.5	454.7	260.7	65.9	63.1	60.4	56.7	54.0
82.5°	1598.2	956.0	313.8	245.2	176.6	107.0	38.4	39.3	40.3	40.3	41.2
85°	670.6	362.3	54.0	45.7	37.5	29.3	21.0	22.9	25.6	27.4	29.3
87.5°	11.9	6.4	0.0	1.8	4.6	6.4	8.2	11.0	12.8	15.6	17.4
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):

	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°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	2190.1	2203.9	2216.7	2230.4	2219.4	2209.3	2198.4	2187.4	2170.9	2155.4	2138.9
5°	2664.9	2619.2	2573.5	2527.7	2458.2	2388.7	2318.2	2248.7	2240.5	2232.2	2223.1
7.5°	2503.0	2396.0	2288.0	2181.0	2080.4	1979.7	1879.1	1778.5	1747.4	1717.2	1686.1
10°	2239.5	2157.2	2074.0	1991.6	1919.3	1846.2	1773.9	1700.7	1624.8	1548.8	1472.0
12.5°	2179.2	2093.2	2006.3	1920.3	1854.4	1788.5	1722.7	1656.8	1571.7	1486.6	1401.5
15°	2052.9	1959.6	1866.3	1773.0	1685.1	1597.3	1508.6	1420.8	1318.3	1215.8	1113.4
17.5°	1898.3	1788.5	1677.8	1567.1	1451.9	1336.6	1221.3	1106.0	988.0	870.9	752.9
20°	1714.4	1564.4	1413.4	1263.4	1120.7	978.0	834.3	691.6	617.5	544.3	470.2
22.5°	1490.3	1295.4	1101.5	906.6	789.5	671.5	554.4	436.4	404.4	372.3	340.3
25°	1292.7	1072.2	851.7	631.2	557.1	483.0	408.9	334.8	320.2	304.6	290.0
27.5°	1086.8	880.1	672.4	464.7	422.7	379.7	337.6	294.6	284.5	275.4	265.3
30°	833.4	678.8	523.3	368.7	341.2	313.8	285.4	258.0	253.4	247.9	243.3
32.5°	645.9	532.4	419.9	306.5	290.9	275.4	259.8	244.3	236.9	229.6	221.4
35°	539.8	449.2	357.7	266.2	255.2	243.3	232.4	220.5	213.2	204.9	197.6
37.5°	447.4	381.5	314.7	247.9	236.0	224.1	211.3	199.4	193.9	188.5	183.0
40°	368.7	330.3	291.8	253.4	236.0	218.6	201.3	183.9	179.3	174.7	170.2
42.5°	304.6	279.9	254.3	229.6	216.8	204.9	192.1	179.3	172.9	165.6	159.2
45°	246.1	232.4	219.6	205.8	206.8	207.7	207.7	208.6	192.1	174.7	158.3
47.5°	199.4	193.0	185.7	179.3	186.6	193.9	200.4	207.7	190.3	172.9	154.6
50°	171.1	166.5	161.0	155.5	162.8	171.1	178.4	185.7	178.4	172.0	164.7
52.5°	156.4	150.0	143.6	137.2	140.0	143.6	146.4	149.1	149.1	149.1	149.1
55°	147.3	140.9	133.6	126.2	123.5	119.8	117.1	113.4	108.9	105.2	100.6
57.5°	140.0	132.7	124.4	117.1	112.5	107.0	102.5	97.0	92.4	86.9	82.3
60°	132.7	125.3	117.1	109.8	105.2	100.6	95.1	90.6	85.1	80.5	75.0
62.5°	122.6	116.2	109.8	103.4	98.8	95.1	90.6	86.0	80.5	75.0	68.6
65°	111.6	107.0	101.5	96.1	91.5	86.9	82.3	77.8	72.3	67.7	62.2
67.5°	101.5	97.0	93.3	88.7	83.3	78.7	73.2	67.7	64.0	60.4	55.8
70°	93.3	89.7	86.9	83.3	77.8	73.2	67.7	62.2	59.5	55.8	53.1
72.5°	85.1	82.3	78.7	75.9	71.4	66.8	62.2	57.6	54.9	52.1	49.4
75°	73.2	71.4	69.5	67.7	63.1	58.6	53.1	48.5	47.6	46.7	45.7
77.5°	65.9	65.0	63.1	61.3	56.7	52.1	47.6	43.0	43.9	44.8	44.8
80°	54.0	54.0	53.1	53.1	49.4	45.7	41.2	37.5	39.3	42.1	43.9
82.5°	41.2	41.2	41.2	41.2	37.5	33.8	30.2	26.5	29.3	31.1	33.8
85°	28.4	27.4	26.5	25.6	22.9	21.0	18.3	15.6	19.2	22.0	25.6
87.5°	17.4	18.3	18.3	18.3	16.5	13.7	11.9	9.1	11.0	11.9	13.7
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: P368591
 CATALOG NUMBER: MSA-SA4D-727-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: P368591
 CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	2122.4	2095.0	2067.5	2039.2	2011.7	1947.7	1883.7	1819.6	1755.6	1803.2	1849.8
5°	2214.8	2161.8	2107.8	2054.7	2000.8	1977.0	1954.1	1930.3	1906.5	1910.2	1914.8
7.5°	1655.0	1620.2	1585.4	1549.7	1515.0	1507.7	1501.3	1493.9	1486.6	1502.2	1516.8
10°	1396.1	1347.6	1298.2	1249.7	1200.3	1173.7	1147.2	1120.7	1094.2	1091.4	1087.7
12.5°	1316.5	1242.4	1169.2	1095.1	1021.0	963.3	905.7	848.1	790.4	795.0	799.6
15°	1010.9	936.8	863.6	789.5	715.4	668.8	621.2	574.5	527.0	513.2	499.5
17.5°	634.9	580.0	525.1	469.3	414.4	398.9	384.2	368.7	353.1	348.6	344.0
20°	396.1	372.3	348.6	323.9	300.1	296.4	292.8	289.1	285.4	288.2	290.9
22.5°	308.3	298.2	287.3	277.2	266.2	262.6	258.9	255.2	251.6	254.3	256.2
25°	274.5	267.1	259.8	252.5	245.2	241.5	236.9	233.3	228.7	230.5	233.3
27.5°	255.2	248.8	242.4	236.0	229.6	223.2	217.7	211.3	204.9	208.6	211.3
30°	237.9	230.5	224.1	216.8	209.5	203.1	196.7	189.4	183.0	186.6	190.3
32.5°	214.1	207.7	200.4	193.9	186.6	183.0	179.3	174.7	171.1	173.8	175.7
35°	189.4	183.9	179.3	173.8	168.3	164.7	161.9	158.3	154.6	155.5	157.4
37.5°	177.5	171.1	164.7	158.3	151.9	150.0	148.2	145.5	143.6	143.6	143.6
40°	165.6	159.2	152.8	145.5	139.1	136.3	133.6	130.8	128.1	128.1	128.1
42.5°	151.9	145.5	139.1	132.7	126.2	123.5	119.8	117.1	113.4	113.4	113.4
45°	140.9	134.5	129.0	122.6	116.2	111.6	107.0	101.5	97.0	96.1	95.1
47.5°	137.2	128.1	118.9	109.8	100.6	96.1	91.5	86.0	81.4	80.5	79.6
50°	157.4	139.1	120.8	102.5	84.2	80.5	76.8	73.2	69.5	67.7	66.8
52.5°	149.1	129.9	110.7	91.5	72.3	69.5	66.8	64.0	61.3	59.5	57.6
55°	96.1	87.8	80.5	72.3	64.0	62.2	60.4	57.6	55.8	54.0	52.1
57.5°	76.8	72.3	68.6	64.0	59.5	57.6	55.8	53.1	51.2	48.5	46.7
60°	69.5	65.9	62.2	58.6	54.9	53.1	51.2	49.4	47.6	44.8	43.0
62.5°	63.1	60.4	57.6	54.9	52.1	50.3	48.5	46.7	44.8	42.1	39.3
65°	56.7	54.9	53.1	51.2	49.4	47.6	45.7	43.0	41.2	38.4	35.7
67.5°	52.1	51.2	50.3	49.4	48.5	46.7	43.9	42.1	39.3	36.6	32.9
70°	49.4	49.4	49.4	48.5	48.5	46.7	43.9	42.1	39.3	35.7	32.9
72.5°	46.7	47.6	48.5	48.5	49.4	46.7	43.9	41.2	38.4	34.8	32.0
75°	44.8	45.7	46.7	46.7	47.6	45.7	43.9	41.2	39.3	35.7	32.0
77.5°	45.7	46.7	46.7	47.6	47.6	45.7	43.9	41.2	39.3	34.8	30.2
80°	45.7	44.8	43.9	42.1	41.2	37.5	33.8	29.3	25.6	20.1	15.6
82.5°	35.7	33.8	32.9	31.1	29.3	25.6	22.0	18.3	14.6	11.0	7.3
85°	28.4	26.5	25.6	23.8	22.0	19.2	15.6	12.8	9.1	7.3	4.6
87.5°	14.6	13.7	11.9	11.0	9.1	7.3	4.6	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: P368591
 CATALOG NUMBER: MSA-SA4D-727-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: P368591

CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1897.4	1944.0	1937.6	1931.2	1961.4	1991.6	1969.7	1948.6	1926.7	1904.7	1859.0
5°	1918.4	1922.1	1915.7	1908.4	1909.3	1910.2	1895.6	1880.9	1866.3	1851.6	1848.9
7.5°	1532.4	1547.0	1567.1	1586.3	1587.3	1587.3	1576.3	1565.3	1553.4	1542.4	1547.9
10°	1085.0	1081.3	1086.8	1092.3	1091.4	1089.6	1118.9	1148.1	1176.5	1205.8	1184.7
12.5°	803.2	807.8	784.9	762.1	770.3	777.6	782.2	786.8	791.3	795.9	808.7
15°	485.8	472.1	455.6	439.1	447.4	454.7	462.9	470.2	478.5	485.8	494.0
17.5°	338.5	333.9	326.6	318.4	319.3	320.2	321.1	322.0	322.0	322.9	324.8
20°	293.7	296.4	290.9	284.5	282.7	279.9	278.1	276.3	273.5	271.7	269.0
22.5°	258.9	260.7	261.6	261.6	258.0	253.4	249.8	247.0	243.3	239.7	237.9
25°	235.1	236.9	235.1	232.4	230.5	228.7	226.9	224.1	222.3	219.6	218.6
27.5°	215.0	217.7	217.7	216.8	215.0	212.2	207.7	204.0	199.4	194.9	195.8
30°	193.9	197.6	197.6	196.7	195.8	194.9	190.3	185.7	181.1	176.6	178.4
32.5°	178.4	180.2	179.3	178.4	178.4	177.5	173.8	171.1	167.4	163.8	163.8
35°	158.3	159.2	159.2	159.2	159.2	158.3	155.5	152.8	150.0	147.3	148.2
37.5°	143.6	143.6	146.4	148.2	146.4	144.5	142.7	140.0	138.1	135.4	135.4
40°	127.2	127.2	129.9	131.7	129.9	128.1	127.2	125.3	124.4	122.6	122.6
42.5°	112.5	112.5	115.3	117.1	117.1	116.2	114.4	112.5	110.7	108.9	109.8
45°	94.2	93.3	97.9	101.5	99.7	97.9	97.9	97.0	97.0	96.1	97.0
47.5°	77.8	76.8	80.5	84.2	83.3	81.4	81.4	81.4	81.4	81.4	82.3
50°	65.0	63.1	66.8	69.5	68.6	66.8	66.8	67.7	67.7	67.7	68.6
52.5°	55.8	54.0	56.7	58.6	57.6	56.7	56.7	57.6	57.6	57.6	58.6
55°	49.4	47.6	50.3	52.1	51.2	49.4	50.3	50.3	51.2	51.2	51.2
57.5°	43.9	41.2	43.0	44.8	44.8	43.9	44.8	44.8	45.7	45.7	45.7
60°	40.3	37.5	39.3	40.3	40.3	39.3	40.3	40.3	41.2	41.2	41.2
62.5°	35.7	32.9	34.8	35.7	35.7	34.8	35.7	35.7	36.6	36.6	36.6
65°	32.0	29.3	30.2	31.1	31.1	31.1	32.0	32.0	32.9	32.9	32.9
67.5°	30.2	26.5	27.4	28.4	28.4	28.4	29.3	29.3	30.2	30.2	31.1
70°	29.3	25.6	26.5	26.5	27.4	27.4	27.4	28.4	28.4	28.4	28.4
72.5°	28.4	24.7	24.7	24.7	25.6	25.6	25.6	26.5	26.5	26.5	26.5
75°	28.4	24.7	23.8	22.9	23.8	23.8	23.8	24.7	24.7	24.7	24.7
77.5°	24.7	20.1	18.3	15.6	18.3	20.1	21.0	21.0	22.0	22.0	22.0
80°	10.1	4.6	2.7	0.0	0.9	1.8	2.7	3.7	4.6	5.5	6.4
82.5°	3.7	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: P368591
 CATALOG NUMBER: MSA-SA4D-727-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: P368591
 CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1813.2	1767.5	1721.7	1743.7	1765.6	1787.6	1809.6	1807.7	1805.0	1803.2	1800.4
5°	1847.1	1844.3	1841.6	1828.8	1816.9	1804.1	1791.3	1788.5	1784.9	1782.1	1778.5
7.5°	1553.4	1558.0	1563.5	1548.8	1534.2	1519.6	1504.9	1467.4	1429.9	1391.5	1354.0
10°	1163.7	1141.7	1120.7	1118.9	1117.0	1115.2	1113.4	1109.7	1106.0	1101.5	1097.8
12.5°	822.4	835.3	848.1	843.5	838.9	833.4	828.8	835.3	842.6	849.0	855.4
15°	501.3	509.6	516.9	533.4	549.8	566.3	582.8	589.2	596.5	602.9	609.3
17.5°	326.6	327.5	329.3	347.6	365.0	383.3	400.7	412.6	424.5	435.5	447.4
20°	266.2	263.5	260.7	270.8	280.9	290.9	301.0	312.0	322.9	333.9	344.9
22.5°	236.9	235.1	233.3	236.9	240.6	243.3	247.0	255.2	264.4	272.6	280.9
25°	217.7	215.9	215.0	216.8	218.6	220.5	222.3	226.9	231.5	236.0	240.6
27.5°	195.8	196.7	196.7	198.5	199.4	201.3	202.2	204.0	206.8	208.6	210.4
30°	179.3	181.1	182.1	183.9	184.8	186.6	187.5	186.6	185.7	184.8	183.9
32.5°	163.8	162.8	162.8	164.7	165.6	167.4	168.3	170.2	172.0	172.9	174.7
35°	148.2	149.1	149.1	149.1	150.0	150.0	150.0	151.9	154.6	156.4	158.3
37.5°	134.5	134.5	133.6	136.3	138.1	140.9	142.7	144.5	147.3	149.1	150.9
40°	122.6	122.6	122.6	124.4	126.2	127.2	129.0	133.6	138.1	142.7	147.3
42.5°	109.8	110.7	110.7	112.5	114.4	115.3	117.1	120.8	123.5	127.2	129.9
45°	97.9	98.8	99.7	101.5	102.5	104.3	105.2	107.0	108.0	109.8	110.7
47.5°	84.2	85.1	86.0	87.8	88.7	90.6	91.5	90.6	90.6	89.7	88.7
50°	70.4	71.4	72.3	75.0	76.8	79.6	81.4	79.6	77.8	75.0	73.2
52.5°	59.5	59.5	60.4	62.2	64.0	65.0	66.8	65.9	65.0	64.0	63.1
55°	51.2	51.2	51.2	52.1	53.1	54.0	54.9	55.8	55.8	56.7	56.7
57.5°	45.7	44.8	44.8	45.7	46.7	46.7	47.6	48.5	48.5	49.4	49.4
60°	41.2	40.3	40.3	41.2	42.1	43.0	43.9	43.9	43.9	43.0	43.0
62.5°	36.6	36.6	36.6	37.5	37.5	38.4	38.4	38.4	39.3	39.3	39.3
65°	33.8	33.8	33.8	33.8	33.8	32.9	32.9	33.8	33.8	34.8	34.8
67.5°	31.1	32.0	32.0	31.1	30.2	29.3	28.4	29.3	29.3	30.2	30.2
70°	28.4	28.4	28.4	27.4	26.5	25.6	24.7	24.7	24.7	23.8	23.8
72.5°	26.5	25.6	25.6	24.7	22.9	22.0	20.1	19.2	19.2	18.3	17.4
75°	24.7	23.8	23.8	22.0	20.1	18.3	16.5	15.6	13.7	12.8	11.0
77.5°	22.0	22.0	22.0	19.2	17.4	14.6	11.9	10.1	8.2	5.5	3.7
80°	7.3	8.2	9.1	8.2	8.2	7.3	6.4	4.6	3.7	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: P368591
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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: P368591
 CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1810.5	1820.5	1830.6	1840.7	1841.6	1842.5	1843.4	1844.3	1821.5	1797.7	1774.8
5°	1796.8	1816.0	1834.3	1852.6	1842.5	1832.4	1822.4	1812.3	1811.4	1811.4	1810.5
7.5°	1356.7	1358.5	1361.3	1363.1	1366.8	1370.4	1373.2	1376.8	1391.5	1406.1	1419.8
10°	1085.9	1074.0	1061.2	1049.3	1040.2	1030.1	1021.0	1010.9	1018.2	1026.5	1033.8
12.5°	845.3	835.3	824.3	814.2	810.6	806.9	802.3	798.7	822.4	846.2	869.1
15°	607.5	605.6	602.9	601.1	612.9	624.8	636.7	648.6	668.8	688.0	708.1
17.5°	451.9	456.5	461.1	465.7	473.0	480.3	486.7	494.0	508.7	524.2	538.8
20°	350.4	356.8	362.3	367.8	365.9	364.1	361.4	359.5	371.4	383.3	394.3
22.5°	286.3	290.9	296.4	301.0	301.9	302.8	303.7	304.6	312.0	318.4	325.7
25°	245.2	250.7	255.2	259.8	260.7	261.6	262.6	263.5	272.6	281.8	290.0
27.5°	216.8	222.3	228.7	234.2	236.0	237.9	239.7	241.5	247.0	251.6	257.1
30°	191.2	198.5	205.8	213.2	215.9	218.6	221.4	224.1	229.6	236.0	241.5
32.5°	178.4	183.0	186.6	190.3	196.7	202.2	208.6	214.1	220.5	227.8	234.2
35°	163.8	168.3	173.8	178.4	183.0	187.5	191.2	195.8	199.4	203.1	205.8
37.5°	154.6	159.2	162.8	166.5	168.3	170.2	171.1	172.9	174.7	176.6	177.5
40°	147.3	146.4	146.4	145.5	147.3	150.0	151.9	153.7	159.2	163.8	169.2
42.5°	128.1	125.3	123.5	120.8	125.3	129.0	133.6	137.2	144.5	151.9	159.2
45°	108.9	107.0	104.3	102.5	108.9	115.3	121.7	128.1	136.3	143.6	151.9
47.5°	89.7	90.6	90.6	91.5	97.9	104.3	109.8	116.2	124.4	132.7	140.9
50°	75.0	76.8	78.7	80.5	86.9	92.4	98.8	104.3	113.4	121.7	130.8
52.5°	65.9	68.6	70.4	73.2	78.7	85.1	90.6	96.1	104.3	112.5	120.8
55°	59.5	63.1	65.9	68.6	73.2	77.8	82.3	86.9	95.1	103.4	110.7
57.5°	52.1	54.9	57.6	60.4	65.0	69.5	73.2	77.8	85.1	93.3	100.6
60°	45.7	47.6	50.3	52.1	55.8	60.4	64.0	67.7	75.0	82.3	88.7
62.5°	40.3	42.1	43.0	43.9	47.6	51.2	54.9	58.6	65.0	72.3	78.7
65°	35.7	36.6	36.6	37.5	40.3	43.9	46.7	49.4	56.7	63.1	70.4
67.5°	30.2	31.1	31.1	31.1	33.8	36.6	39.3	42.1	48.5	55.8	62.2
70°	23.8	24.7	24.7	24.7	27.4	31.1	33.8	36.6	42.1	47.6	53.1
72.5°	18.3	18.3	19.2	19.2	22.0	25.6	28.4	31.1	35.7	40.3	44.8
75°	11.9	12.8	12.8	13.7	16.5	20.1	22.9	25.6	30.2	34.8	38.4
77.5°	4.6	6.4	7.3	8.2	11.0	13.7	16.5	19.2	22.9	27.4	31.1
80°	0.0	0.9	0.9	0.9	2.7	3.7	5.5	6.4	9.1	12.8	15.6
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: P368591
 CATALOG NUMBER: MSA-SA4D-727-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: P368591
 CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1751.0	1801.3	1851.6	1902.0	1952.3	2014.5	2076.7	2085.8	2095.0	2084.0	2074.0
5°	1809.6	1834.3	1858.0	1882.7	1906.5	1977.9	2048.3	2049.3	2049.3	2050.2	2050.2
7.5°	1434.5	1455.5	1476.6	1496.7	1517.7	1564.4	1611.0	1628.4	1644.9	1641.2	1637.6
10°	1041.1	1068.5	1095.1	1122.5	1149.0	1192.0	1235.0	1251.5	1267.1	1317.4	1368.6
12.5°	892.9	919.4	945.9	971.6	998.1	1042.0	1085.9	1117.9	1149.0	1180.1	1211.3
15°	727.3	748.3	770.3	791.3	812.4	832.5	852.6	892.0	930.4	961.5	992.6
17.5°	553.5	562.6	570.9	580.0	588.2	597.4	606.5	623.0	638.6	666.0	692.5
20°	406.2	413.5	420.8	427.2	434.6	443.7	452.8	464.7	475.7	482.1	487.6
22.5°	332.1	343.1	354.0	364.1	375.1	381.5	387.9	391.6	395.2	398.0	400.7
25°	299.2	309.2	318.4	328.4	337.6	340.3	343.1	350.4	357.7	357.7	357.7
27.5°	261.6	275.4	290.0	303.7	317.5	321.1	323.9	326.6	328.4	324.8	320.2
30°	247.0	260.7	274.5	287.3	301.0	306.5	311.0	313.8	316.5	312.0	307.4
32.5°	240.6	253.4	265.3	278.1	290.0	297.3	303.7	311.0	317.5	318.4	320.2
35°	209.5	217.7	226.9	235.1	243.3	247.0	250.7	253.4	255.2	255.2	255.2
37.5°	179.3	190.3	202.2	213.2	224.1	232.4	240.6	241.5	241.5	243.3	246.1
40°	173.8	184.8	195.8	205.8	216.8	226.0	234.2	235.1	236.0	237.9	239.7
42.5°	166.5	178.4	190.3	202.2	214.1	223.2	231.5	231.5	230.5	233.3	235.1
45°	159.2	171.1	182.1	193.9	204.9	216.8	227.8	225.1	221.4	226.0	229.6
47.5°	149.1	161.9	174.7	186.6	199.4	210.4	220.5	218.6	215.9	220.5	225.1
50°	139.1	151.9	164.7	177.5	190.3	202.2	213.2	211.3	209.5	215.0	219.6
52.5°	129.0	141.8	155.5	168.3	181.1	191.2	200.4	199.4	198.5	204.0	210.4
55°	118.9	130.8	143.6	155.5	167.4	178.4	188.5	186.6	184.8	189.4	193.9
57.5°	108.0	119.8	130.8	142.7	153.7	162.8	171.1	168.3	165.6	171.1	176.6
60°	96.1	107.0	118.0	128.1	139.1	146.4	152.8	150.9	148.2	153.7	159.2
62.5°	85.1	95.1	105.2	114.4	124.4	129.9	135.4	133.6	131.7	137.2	143.6
65°	76.8	85.1	92.4	100.6	108.0	113.4	118.9	116.2	113.4	119.8	125.3
67.5°	68.6	75.0	82.3	88.7	95.1	99.7	104.3	102.5	99.7	104.3	108.9
70°	58.6	65.0	71.4	76.8	83.3	87.8	92.4	89.7	86.0	90.6	95.1
72.5°	49.4	54.9	60.4	65.0	70.4	74.1	77.8	75.0	72.3	75.9	79.6
75°	43.0	47.6	52.1	55.8	60.4	62.2	64.0	63.1	61.3	65.0	67.7
77.5°	34.8	38.4	43.0	46.7	50.3	50.3	50.3	51.2	51.2	54.9	59.5
80°	18.3	22.0	25.6	28.4	32.0	32.0	31.1	32.9	33.8	38.4	43.0
82.5°	0.0	2.7	5.5	8.2	11.0	10.1	8.2	9.1	9.1	11.0	12.8
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: P368591
 CATALOG NUMBER: MSA-SA4D-727-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: P368591

CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	2063.0	2052.0	2044.7	2038.3	2031.0	2023.6	2032.8	2041.9	2050.2	2059.3	2086.8
5°	2051.1	2051.1	2044.7	2038.3	2031.9	2025.5	2039.2	2052.0	2065.7	2078.5	2077.6
7.5°	1633.0	1629.3	1667.8	1705.3	1743.7	1781.2	1791.3	1801.3	1810.5	1820.5	1817.8
10°	1418.9	1469.2	1485.7	1502.2	1518.6	1535.1	1555.2	1575.4	1595.5	1615.6	1622.9
12.5°	1242.4	1273.5	1326.5	1378.7	1431.7	1483.9	1510.4	1537.9	1564.4	1590.9	1643.1
15°	1023.7	1054.8	1100.6	1146.3	1192.0	1237.8	1279.9	1322.9	1364.9	1407.0	1470.2
17.5°	720.0	746.5	781.3	816.0	849.9	884.7	949.6	1014.6	1079.5	1144.5	1211.3
20°	494.0	499.5	516.0	533.4	549.8	566.3	624.8	684.3	742.9	801.4	889.2
22.5°	402.5	405.3	413.5	421.7	429.1	437.3	467.5	498.6	528.8	559.0	630.3
25°	356.8	356.8	362.3	367.8	373.3	378.7	395.2	411.7	427.2	443.7	489.4
27.5°	316.5	312.0	320.2	328.4	336.7	344.9	356.8	369.6	381.5	393.4	424.5
30°	302.8	298.2	308.3	318.4	328.4	338.5	350.4	362.3	373.3	385.1	406.2
32.5°	321.1	322.0	325.7	329.3	332.1	335.7	341.2	347.6	353.1	358.6	376.9
35°	255.2	255.2	261.6	268.0	273.5	279.9	290.0	300.1	310.1	320.2	339.4
37.5°	247.9	249.8	255.2	261.6	267.1	272.6	285.4	299.2	312.0	324.8	340.3
40°	240.6	242.4	249.8	257.1	264.4	271.7	284.5	296.4	309.2	321.1	335.7
42.5°	237.9	239.7	248.8	258.9	268.0	277.2	288.2	299.2	309.2	320.2	340.3
45°	234.2	237.9	248.8	260.7	271.7	282.7	292.8	302.8	312.9	322.9	347.6
47.5°	228.7	233.3	246.1	258.0	270.8	282.7	301.9	322.0	341.2	360.4	372.3
50°	225.1	229.6	243.3	257.1	270.8	284.5	315.6	346.7	376.9	408.0	401.6
52.5°	215.9	221.4	238.8	256.2	273.5	290.9	318.4	345.8	373.3	400.7	387.9
55°	198.5	203.1	223.2	243.3	262.6	282.7	302.8	322.9	342.2	362.3	347.6
57.5°	181.1	186.6	205.8	225.1	243.3	262.6	272.6	282.7	292.8	302.8	297.3
60°	164.7	170.2	195.8	221.4	247.0	272.6	263.5	254.3	244.3	235.1	241.5
62.5°	149.1	154.6	179.3	203.1	227.8	251.6	238.8	226.0	213.2	200.4	210.4
65°	131.7	137.2	146.4	156.4	165.6	174.7	173.8	172.0	171.1	169.2	180.2
67.5°	113.4	118.0	122.6	128.1	132.7	137.2	140.0	143.6	146.4	149.1	158.3
70°	98.8	103.4	108.9	113.4	118.9	123.5	125.3	127.2	128.1	129.9	138.1
72.5°	82.3	86.0	93.3	100.6	107.0	114.4	115.3	115.3	116.2	116.2	122.6
75°	71.4	74.1	79.6	85.1	89.7	95.1	97.9	100.6	102.5	105.2	108.9
77.5°	63.1	66.8	68.6	69.5	71.4	72.3	74.1	75.9	77.8	79.6	80.5
80°	46.7	51.2	53.1	54.0	55.8	56.7	56.7	55.8	55.8	54.9	55.8
82.5°	14.6	16.5	19.2	22.0	24.7	27.4	28.4	29.3	29.3	30.2	29.3
85°	2.7	3.7	5.5	7.3	8.2	10.1	9.1	7.3	6.4	4.6	3.7
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: P368591
 CATALOG NUMBER: MSA-SA4D-727-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: P368591

CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	2114.2	2140.7	2168.2	2157.2	2146.2	2135.2	2124.3	2126.1	2128.8	2130.7	2132.5
5°	2076.7	2074.9	2074.0	2105.1	2137.1	2168.2	2199.3	2233.1	2267.9	2301.7	2335.6
7.5°	1815.1	1811.4	1808.6	1848.9	1889.2	1929.4	1969.7	2016.3	2063.9	2110.5	2157.2
10°	1630.3	1637.6	1644.9	1661.4	1678.7	1695.2	1711.7	1756.5	1801.3	1845.2	1890.1
12.5°	1695.2	1746.4	1798.6	1808.6	1817.8	1827.9	1837.0	1843.4	1849.8	1856.2	1862.6
15°	1534.2	1597.3	1660.4	1687.0	1712.6	1739.1	1764.7	1832.4	1899.2	1966.9	2033.7
17.5°	1278.0	1343.9	1410.7	1490.3	1569.9	1649.5	1729.1	1802.2	1875.4	1948.6	2021.8
20°	978.0	1065.8	1153.6	1254.3	1355.8	1456.4	1557.1	1630.3	1702.5	1775.7	1848.0
22.5°	702.6	774.0	845.3	967.0	1087.7	1209.4	1330.2	1457.3	1585.4	1712.6	1839.8
25°	535.2	580.0	625.8	745.6	865.4	984.4	1104.2	1279.0	1453.7	1628.4	1803.2
27.5°	454.7	485.8	516.0	623.9	731.9	838.9	946.9	1154.5	1362.2	1569.9	1777.5
30°	428.1	449.2	470.2	561.7	654.1	745.6	837.1	1047.5	1257.9	1468.3	1678.7
32.5°	395.2	412.6	430.9	511.4	591.9	671.5	752.0	957.8	1163.7	1368.6	1574.4
35°	357.7	376.9	395.2	475.7	556.2	635.8	716.3	929.5	1142.6	1355.8	1569.0
37.5°	355.0	370.5	385.1	478.5	572.7	666.0	759.3	972.5	1185.6	1397.9	1611.0
40°	351.3	365.9	380.6	475.7	569.9	665.1	759.3	982.5	1205.8	1429.0	1652.2
42.5°	360.4	379.7	399.8	484.0	568.1	651.4	735.5	970.6	1205.8	1440.0	1675.1
45°	373.3	398.0	422.7	499.5	576.4	653.2	730.0	985.3	1240.5	1494.9	1750.1
47.5°	385.1	397.0	408.9	482.1	554.4	627.6	699.9	960.6	1221.3	1482.0	1742.8
50°	396.1	389.7	383.3	463.8	544.3	623.9	704.4	953.3	1201.2	1450.0	1698.0
52.5°	374.2	361.4	347.6	433.6	519.6	604.7	690.7	941.4	1192.0	1442.7	1693.4
55°	333.0	318.4	303.7	388.8	473.0	558.1	642.2	892.0	1141.7	1391.5	1641.2
57.5°	290.9	285.4	279.0	344.0	408.9	473.0	537.9	815.1	1093.2	1370.4	1647.6
60°	247.9	253.4	259.8	306.5	353.1	398.9	445.5	717.2	988.0	1259.7	1530.5
62.5°	219.6	229.6	238.8	278.1	318.4	357.7	397.0	653.2	909.4	1165.5	1421.7
65°	192.1	203.1	214.1	260.7	308.3	355.0	401.6	618.4	835.3	1052.1	1268.9
67.5°	167.4	175.7	184.8	246.1	307.4	368.7	430.0	607.5	784.0	961.5	1138.1
70°	146.4	153.7	161.9	233.3	304.6	376.0	447.4	598.3	750.2	901.1	1052.1
72.5°	129.0	135.4	141.8	214.1	286.3	358.6	430.9	565.4	698.9	833.4	967.0
75°	112.5	115.3	118.9	180.2	240.6	301.9	362.3	451.9	542.5	632.2	721.8
77.5°	81.4	81.4	82.3	100.6	118.0	136.3	153.7	209.5	265.3	320.2	376.0
80°	55.8	56.7	56.7	64.0	70.4	77.8	84.2	96.1	107.0	118.9	129.9
82.5°	28.4	26.5	25.6	32.9	40.3	47.6	54.9	57.6	59.5	62.2	64.0
85°	2.7	0.9	0.0	4.6	9.1	13.7	18.3	22.0	25.6	29.3	32.9
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: P368591
 CATALOG NUMBER: MSA-SA4D-727-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: P368591

CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	2125.2	2117.9	2110.5	2103.2	2148.1	2193.8	2238.6	2283.5	2410.6	2493.9	2484.7
5°	2368.5	2401.5	2434.4	2467.3	2520.4	2574.4	2627.4	2680.5	2869.0	2984.2	3000.7
7.5°	2208.4	2258.7	2310.0	2360.3	2462.8	2564.3	2666.8	2768.3	2922.9	3042.8	3110.5
10°	1947.7	2005.3	2062.1	2119.7	2235.0	2351.1	2466.4	2581.7	2755.5	2921.1	3006.2
12.5°	1953.2	2043.8	2134.3	2224.9	2325.5	2426.2	2525.9	2626.5	2732.6	2788.4	2908.3
15°	2105.1	2176.4	2247.8	2319.1	2450.9	2582.6	2713.4	2845.2	2908.3	3042.8	3182.7
17.5°	2160.9	2300.8	2439.9	2578.9	2743.6	2907.4	3072.0	3235.8	3354.7	3541.4	3685.9
20°	2057.5	2267.0	2475.6	2685.1	2911.0	3137.0	3363.0	3588.9	3718.8	3896.3	4119.5
22.5°	2062.1	2284.4	2505.8	2728.1	3040.0	3351.1	3663.0	3974.1	4322.6	4664.8	4773.7
25°	2094.1	2385.0	2675.0	2965.9	3326.4	3686.8	4047.3	4407.7	4828.5	5188.1	5332.6
27.5°	2105.1	2432.6	2759.2	3086.7	3599.0	4111.3	4623.6	5135.9	5638.2	6044.4	6199.0
30°	2078.5	2479.2	2879.0	3278.8	3907.3	4535.8	5164.3	5792.8	6269.4	6742.4	6934.5
32.5°	2084.9	2595.4	3105.9	3616.4	4356.5	5097.5	5837.6	6577.7	6882.4	7308.7	7647.2
35°	2128.8	2688.7	3247.7	3807.6	4626.4	5445.2	6263.9	7082.7	7582.2	8032.3	8319.6
37.5°	2231.3	2851.6	3470.9	4091.2	5097.5	6104.8	7111.1	8117.4	8890.5	9663.5	9795.2
40°	2307.2	2962.3	3617.3	4272.3	5440.6	6608.8	7777.1	8945.3	9819.9	10658.8	10748.5
42.5°	2393.2	3110.5	3828.6	4545.9	5852.3	7158.7	8465.0	9771.4	10784.2	11639.6	11699.0
45°	2487.5	3225.7	3963.1	4700.5	6069.1	7436.8	8805.4	10173.1	11356.0	12349.5	12125.3
47.5°	2532.3	3321.8	4111.3	4900.8	6368.2	7834.7	9302.1	10768.6	11829.8	12706.3	12444.6
50°	2567.1	3435.2	4304.3	5172.5	6711.3	8250.1	9788.8	11327.6	12391.6	13200.3	12790.4
52.5°	2664.9	3635.6	4607.2	5577.8	7214.5	8850.2	10486.9	12122.6	13151.8	13894.6	13320.1
55°	2760.1	3878.0	4996.9	6114.8	7875.0	9636.0	11396.2	13156.4	14181.0	14817.7	14037.4
57.5°	2879.9	4113.1	5345.4	6577.7	8460.5	10343.2	12225.1	14107.8	15109.6	15813.1	15002.5
60°	2848.8	4166.2	5484.5	6801.9	8719.4	10636.9	12554.4	14471.9	15662.1	16526.7	15976.8
62.5°	2728.1	4034.5	5339.9	6646.3	8530.0	10412.8	12296.4	14179.2	15605.4	16776.4	16591.6
65°	2483.8	3697.8	4912.7	6126.7	7925.3	9724.8	11523.4	13322.0	15082.1	16572.4	16638.3
67.5°	2162.7	3187.3	4211.0	5235.7	6913.5	8591.3	10268.2	11946.0	14023.6	15761.8	15957.6
70°	1822.4	2591.8	3362.1	4131.4	5608.0	7084.6	8560.2	10036.8	12196.7	13945.9	14315.5
72.5°	1461.0	1955.9	2450.0	2944.0	4009.8	5074.6	6140.4	7205.3	9105.4	10463.1	11108.0
75°	946.9	1171.9	1397.0	1622.0	2331.9	3040.9	3750.9	4459.9	5721.4	6721.4	7450.5
77.5°	421.7	467.5	512.3	558.1	1106.0	1654.0	2202.0	2750.0	3298.0	3901.8	4072.9
80°	150.9	171.1	192.1	212.2	481.2	751.1	1020.1	1289.0	1554.3	1866.3	1942.2
82.5°	63.1	63.1	62.2	61.3	157.4	253.4	349.5	445.5	515.1	591.9	606.5
85°	25.6	19.2	11.9	4.6	20.1	36.6	52.1	67.7	108.9	98.8	183.0
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: P368591
 CATALOG NUMBER: MSA-SA4D-727-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: P368591

CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	2450.0	2448.1	2446.3	2444.5	2442.6	2409.7	2377.7	2344.7	2312.7	2353.0	2393.2
5°	2974.2	3021.7	3069.3	3117.8	3165.4	3179.1	3192.8	3206.5	3220.3	3249.5	3278.8
7.5°	3167.2	3247.7	3327.3	3407.8	3487.4	3561.5	3634.7	3708.8	3782.9	3764.6	3746.3
10°	3100.4	3245.9	3391.3	3537.7	3683.2	3715.2	3747.2	3780.1	3812.2	3895.4	3978.7
12.5°	3028.1	3202.9	3377.6	3552.3	3727.1	3824.0	3920.1	4017.1	4114.1	4198.2	4282.4
15°	3371.2	3482.8	3594.4	3706.9	3818.6	3903.6	3987.8	4072.9	4157.1	4215.6	4273.2
17.5°	3822.2	3877.1	3932.0	3987.8	4042.7	4109.5	4176.3	4243.0	4309.8	4344.6	4379.4
20°	4298.9	4322.6	4346.4	4370.2	4394.0	4340.9	4287.9	4234.8	4181.8	4214.7	4246.7
22.5°	4777.3	4785.5	4794.7	4802.9	4811.2	4687.7	4564.2	4440.7	4317.1	4265.0	4212.9
25°	5513.8	5453.4	5393.0	5332.6	5272.2	5125.9	4979.5	4833.1	4686.7	4557.8	4428.8
27.5°	6311.5	6106.6	5902.6	5697.6	5493.6	5347.3	5200.9	5054.5	4908.1	4714.2	4520.2
30°	7115.7	6785.4	6456.1	6125.8	5796.5	5622.6	5448.8	5274.1	5100.3	4906.3	4713.3
32.5°	7853.0	7456.0	7058.9	6661.0	6263.9	5971.2	5678.4	5385.7	5092.9	4957.5	4822.1
35°	8464.1	7994.8	7525.5	7055.3	6586.0	6296.0	6005.9	5715.9	5425.9	5224.7	5024.3
37.5°	9508.9	8981.0	8453.2	7925.3	7397.4	7001.3	6606.1	6210.0	5813.8	5679.4	5544.9
40°	10472.2	9807.1	9142.0	8476.9	7811.9	7479.8	7148.6	6816.5	6485.3	6264.9	6045.3
42.5°	11237.9	10537.2	9837.3	9136.5	8435.8	8107.3	7779.8	7451.4	7123.0	6975.7	6829.3
45°	11403.5	10743.0	10083.4	9422.9	8762.4	8571.2	8380.9	8189.7	7999.4	7897.8	7797.2
47.5°	11730.1	11013.8	10298.4	9582.1	8865.8	8779.8	8693.8	8606.9	8520.9	8569.3	8617.8
50°	11913.1	11182.1	10451.2	9720.2	8989.3	9014.0	9037.7	9062.4	9087.1	9431.1	9774.2
52.5°	12268.1	11529.8	10791.5	10053.2	9314.9	9470.5	9625.1	9780.6	9935.2	10409.1	10882.1
55°	12902.0	12176.6	11451.1	10724.7	9999.2	10204.2	10409.1	10614.9	10819.9	11323.0	11825.3
57.5°	13841.6	13121.6	12402.5	11682.6	10963.5	11167.5	11371.5	11575.5	11779.5	12234.2	12688.0
60°	15024.5	14285.3	13547.0	12807.8	12069.5	12146.4	12222.3	12299.2	12376.0	12864.5	13352.1
62.5°	15945.7	15266.0	14587.2	13907.5	13228.6	13143.6	13059.4	12974.3	12890.1	13261.6	13632.1
65°	16159.8	15681.3	15203.8	14725.3	14246.9	13985.2	13724.5	13462.8	13201.2	13351.2	13501.3
67.5°	15546.9	15223.9	14901.9	14579.0	14256.0	13709.8	13163.7	12616.6	12070.4	11990.9	11911.3
70°	14124.3	13947.7	13772.1	13595.5	13419.8	12578.2	11737.4	10895.8	10055.0	9852.9	9650.7
72.5°	11145.5	11255.3	11365.1	11475.8	11585.6	10684.5	9784.3	8883.1	7982.0	7725.9	7470.6
75°	7859.4	8231.8	8604.1	8976.4	9348.8	8527.3	7706.6	6885.1	6063.6	5817.5	5572.3
77.5°	4261.3	4959.4	5657.4	6355.4	7053.4	6375.5	5698.6	5020.7	4342.8	4171.7	4001.5
80°	2020.0	2422.5	2824.1	3226.7	3629.2	3476.4	3323.6	3169.9	3017.2	3054.7	3092.2
82.5°	619.3	910.3	1201.2	1492.1	1783.0	1805.9	1827.9	1850.7	1873.6	1930.3	1986.1
85°	207.7	284.5	361.4	438.2	515.1	650.5	785.9	922.2	1057.6	969.7	882.8
87.5°	0.0	2.7	4.6	7.3	9.1	28.4	47.6	66.8	86.0	74.1	63.1
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: P368591
 CATALOG NUMBER: MSA-SA4D-727-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: P368591

CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	2434.4	2474.7	2475.6	2477.4	2478.3	2479.2	2483.8	2488.4	2493.9	2498.4	2468.2
5°	3309.0	3338.3	3284.3	3230.3	3175.4	3121.4	3169.9	3218.4	3266.9	3315.4	3294.4
7.5°	3727.1	3708.8	3702.4	3696.9	3690.5	3685.0	3703.3	3721.6	3739.9	3758.2	3756.3
10°	4061.9	4145.2	4165.3	4185.4	4206.5	4226.6	4184.5	4142.4	4100.3	4058.2	4040.9
12.5°	4366.5	4450.7	4517.5	4584.3	4652.0	4718.8	4658.4	4598.9	4538.5	4479.1	4422.4
15°	4331.8	4389.4	4444.3	4499.2	4554.1	4609.0	4588.9	4569.6	4549.5	4529.4	4520.2
17.5°	4415.0	4449.8	4437.0	4424.2	4410.5	4397.7	4391.3	4385.8	4379.4	4373.0	4351.0
20°	4279.6	4312.6	4304.3	4297.0	4288.8	4280.6	4275.1	4269.6	4264.1	4258.6	4241.2
22.5°	4160.7	4108.6	4094.8	4082.0	4068.3	4055.5	4057.3	4059.2	4060.1	4061.9	4140.6
25°	4299.8	4170.8	4120.5	4070.1	4018.9	3968.6	3991.5	4013.4	4036.3	4059.2	4172.6
27.5°	4325.4	4131.4	4050.9	3970.4	3889.9	3809.4	3891.7	3974.1	4056.4	4138.8	4322.6
30°	4519.3	4326.3	4213.8	4102.2	3989.6	3878.0	3983.2	4088.4	4193.6	4298.9	4498.3
32.5°	4685.8	4550.4	4469.9	4389.4	4308.9	4228.4	4233.0	4236.6	4241.2	4245.8	4526.6
35°	4823.1	4622.7	4549.5	4477.2	4404.1	4331.8	4440.7	4549.5	4658.4	4767.3	5019.7
37.5°	5410.4	5275.9	5141.4	5007.9	4873.4	4739.8	4826.7	4913.6	5001.5	5088.4	5367.4
40°	5824.8	5605.2	5570.5	5536.6	5501.9	5468.0	5512.8	5556.8	5601.6	5646.4	5890.7
42.5°	6682.0	6534.7	6440.5	6347.2	6253.0	6159.6	6195.3	6231.0	6267.6	6303.3	6534.7
45°	7695.7	7594.1	7531.9	7469.7	7406.6	7344.4	7290.4	7237.3	7183.4	7130.3	7365.4
47.5°	8666.3	8714.8	8852.0	8988.3	9125.6	9261.9	9150.3	9038.7	8926.1	8814.5	8815.4
50°	10118.2	10461.2	10530.8	10599.4	10668.9	10737.5	10499.7	10261.8	10023.0	9785.2	9756.8
52.5°	11356.0	11828.9	11853.6	11878.3	11903.9	11928.6	11832.6	11736.5	11639.6	11543.5	11288.3
55°	12328.4	12830.7	12864.5	12897.5	12931.3	12964.3	12880.1	12796.8	12712.7	12628.5	12370.5
57.5°	13142.6	13596.4	13616.5	13635.7	13655.9	13676.0	13682.4	13688.8	13696.1	13702.5	13354.0
60°	13840.7	14329.2	14288.9	14249.6	14209.4	14170.0	14109.6	14049.3	13988.9	13928.5	13703.4
62.5°	14003.5	14374.9	14312.7	14251.4	14189.2	14127.9	14076.7	14026.4	13975.2	13923.9	13780.3
65°	13651.3	13801.3	13737.3	13673.3	13608.3	13544.3	13511.3	13479.3	13446.4	13413.4	13395.1
67.5°	11830.8	11751.2	11827.1	11903.0	11979.0	12054.9	12158.3	12261.7	12365.9	12469.3	12408.9
70°	9447.6	9245.4	9329.6	9412.8	9497.0	9580.2	9736.7	9893.1	10050.5	10206.9	10164.8
72.5°	7214.5	6958.3	6970.2	6982.1	6994.9	7006.8	7002.2	6998.6	6994.0	6989.4	7062.6
75°	5326.2	5080.1	4963.9	4847.8	4731.6	4615.4	4587.0	4558.7	4530.3	4501.9	4638.3
77.5°	3830.5	3660.3	3580.7	3502.0	3422.4	3343.8	3384.0	3424.3	3465.4	3505.7	3553.3
80°	3130.6	3168.1	3106.8	3046.4	2985.1	2923.8	2969.6	3014.4	3060.2	3105.9	2964.1
82.5°	2042.8	2098.7	1910.2	1721.7	1533.3	1344.8	1459.2	1573.5	1688.8	1803.2	1744.6
85°	795.0	708.1	603.8	500.4	396.1	291.8	379.7	467.5	555.3	643.1	701.7
87.5°	51.2	40.3	32.0	23.8	14.6	6.4	13.7	21.0	29.3	36.6	61.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368591
 CATALOG NUMBER: MSA-SA4D-727-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: P368591

CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	2439.0	2408.8	2379.5	2321.9	2264.2	2206.6	2149.0	2229.5	2310.0	2390.5	2471.0
5°	3274.2	3253.2	3233.1	3238.5	3244.0	3250.4	3255.9	3267.8	3279.7	3290.7	3302.6
7.5°	3755.4	3753.6	3751.8	3709.7	3667.6	3624.6	3582.5	3603.6	3624.6	3645.7	3666.7
10°	4024.4	4007.0	3989.6	3897.2	3804.8	3711.5	3619.1	3578.9	3537.7	3497.4	3457.2
12.5°	4365.6	4308.0	4251.3	4152.5	4054.6	3955.8	3857.0	3820.4	3782.9	3746.3	3708.8
15°	4512.0	4502.9	4494.6	4424.2	4352.8	4282.4	4211.0	4085.7	3959.4	3834.1	3708.8
17.5°	4329.0	4306.2	4284.2	4395.8	4506.5	4618.1	4729.7	4599.8	4469.9	4340.0	4210.1
20°	4223.8	4206.5	4189.1	4396.7	4603.5	4811.2	5017.9	4960.3	4901.7	4844.1	4786.5
22.5°	4219.3	4298.9	4377.5	4559.6	4740.7	4922.8	5103.9	5203.6	5304.3	5404.0	5503.7
25°	4286.0	4400.4	4513.8	4815.7	5117.6	5420.4	5722.3	5836.7	5950.1	6064.5	6177.9
27.5°	4505.6	4689.5	4872.5	5135.9	5399.4	5663.8	5927.3	6177.0	6427.7	6677.4	6927.2
30°	4696.8	4896.2	5095.7	5409.5	5722.3	6036.1	6349.0	6661.9	6974.8	7287.6	7600.5
32.5°	4807.5	5089.3	5370.1	5751.6	6132.2	6513.7	6895.2	7238.2	7581.3	7923.5	8266.5
35°	5272.2	5525.7	5778.2	6199.9	6621.6	7044.3	7466.0	7890.5	8315.0	8738.6	9163.1
37.5°	5646.4	5926.4	6205.4	6666.5	7126.6	7587.7	8048.8	8635.2	9222.5	9809.0	10395.4
40°	6134.9	6379.2	6623.5	7055.3	7486.2	7918.0	8349.8	9093.5	9837.3	10580.2	11323.9
42.5°	6765.3	6996.7	7228.2	7690.2	8152.2	8614.2	9076.2	9899.5	10722.9	11545.3	12368.7
45°	7600.5	7836.6	8071.7	8439.4	8807.2	9175.0	9542.7	10418.2	11292.8	12168.3	13042.9
47.5°	8816.3	8817.3	8818.2	9083.5	9348.8	9615.0	9880.3	10762.2	11643.2	12525.1	13406.1
50°	9728.4	9699.2	9670.8	9808.0	9944.4	10081.6	10218.8	11030.3	11842.7	12654.1	13465.6
52.5°	11033.9	10778.7	10524.4	10605.8	10686.3	10767.7	10848.2	11535.3	12223.2	12910.3	13597.3
55°	12113.4	11855.5	11597.5	11567.3	11537.1	11506.9	11476.7	12108.9	12741.0	13373.2	14005.3
57.5°	13006.3	12657.8	12310.1	12240.6	12172.0	12102.5	12032.9	12699.9	13365.9	14032.8	14698.8
60°	13479.3	13254.3	13029.2	12984.4	12938.6	12893.8	12848.1	13395.1	13942.2	14489.3	15036.4
62.5°	13637.6	13493.9	13351.2	13435.4	13519.6	13604.6	13688.8	13929.4	14169.1	14409.7	14649.4
65°	13377.8	13359.5	13341.2	13514.1	13686.1	13859.0	14031.9	13972.4	13912.0	13852.6	13793.1
67.5°	12349.5	12289.1	12229.6	12609.3	12988.0	13367.7	13747.4	13459.2	13170.1	12881.9	12593.7
70°	10122.7	10079.7	10037.7	10584.7	11131.8	11679.8	12226.9	11877.4	11527.9	11178.5	10829.0
72.5°	7134.9	7208.1	7281.2	7926.2	8570.3	9215.2	9859.3	9507.1	9154.8	8802.6	8450.4
75°	4773.7	4910.0	5046.3	5710.5	6374.6	7039.7	7703.9	7290.4	6876.9	6463.4	6049.9
77.5°	3600.8	3648.4	3696.0	4115.9	4535.8	4956.6	5376.5	5035.3	4693.1	4351.9	4009.8
80°	2822.3	2679.6	2537.8	2675.9	2814.1	2952.2	3090.3	2886.3	2682.3	2479.2	2275.2
82.5°	1686.1	1627.5	1569.0	1644.0	1718.1	1793.1	1868.1	1780.3	1691.5	1603.7	1515.0
85°	759.3	817.9	875.5	951.4	1026.5	1102.4	1178.3	1055.7	933.1	810.6	688.0
87.5°	85.1	109.8	134.5	166.5	198.5	230.5	262.6	204.9	146.4	88.7	31.1
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: P368591
 CATALOG NUMBER: MSA-SA4D-727-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: P368591
 CATALOG NUMBER: MSA-SA4D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1934.0	1934.0
2.5°	2517.7	2564.3
5°	3301.7	3299.8
7.5°	3611.8	3556.0
10°	3406.0	3354.7
12.5°	3578.0	3447.1
15°	3610.0	3511.2
17.5°	4049.1	3887.2
20°	4578.8	4370.2
22.5°	5218.3	4931.9
25°	5837.6	5497.3
27.5°	6723.2	6518.3
30°	7393.8	7186.1
32.5°	8125.6	7984.8
35°	9023.1	8882.2
37.5°	10432.0	10467.6
40°	11345.9	11367.8
42.5°	12453.8	12538.8
45°	13138.1	13233.2
47.5°	13538.8	13671.4
50°	13679.7	13893.7
52.5°	13861.7	14125.2
55°	14299.0	14592.7
57.5°	14933.0	15167.2
60°	15047.4	15058.3
62.5°	14480.1	14310.9
65°	13612.9	13432.7
67.5°	12484.9	12375.1
70°	10684.5	10539.9
72.5°	8181.4	7912.5
75°	5716.9	5383.9
77.5°	3835.0	3660.3
80°	2280.7	2285.3
82.5°	1557.1	1598.2
85°	679.7	670.6
87.5°	22.0	11.9
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

REPORT NUMBER: P368591
CATALOG NUMBER: MSA-SA4D-727-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)