

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: P368702

Luminaire Tested: **MSA-SA4D-830-U-SLR**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4D-830-U-SLR
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17908 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

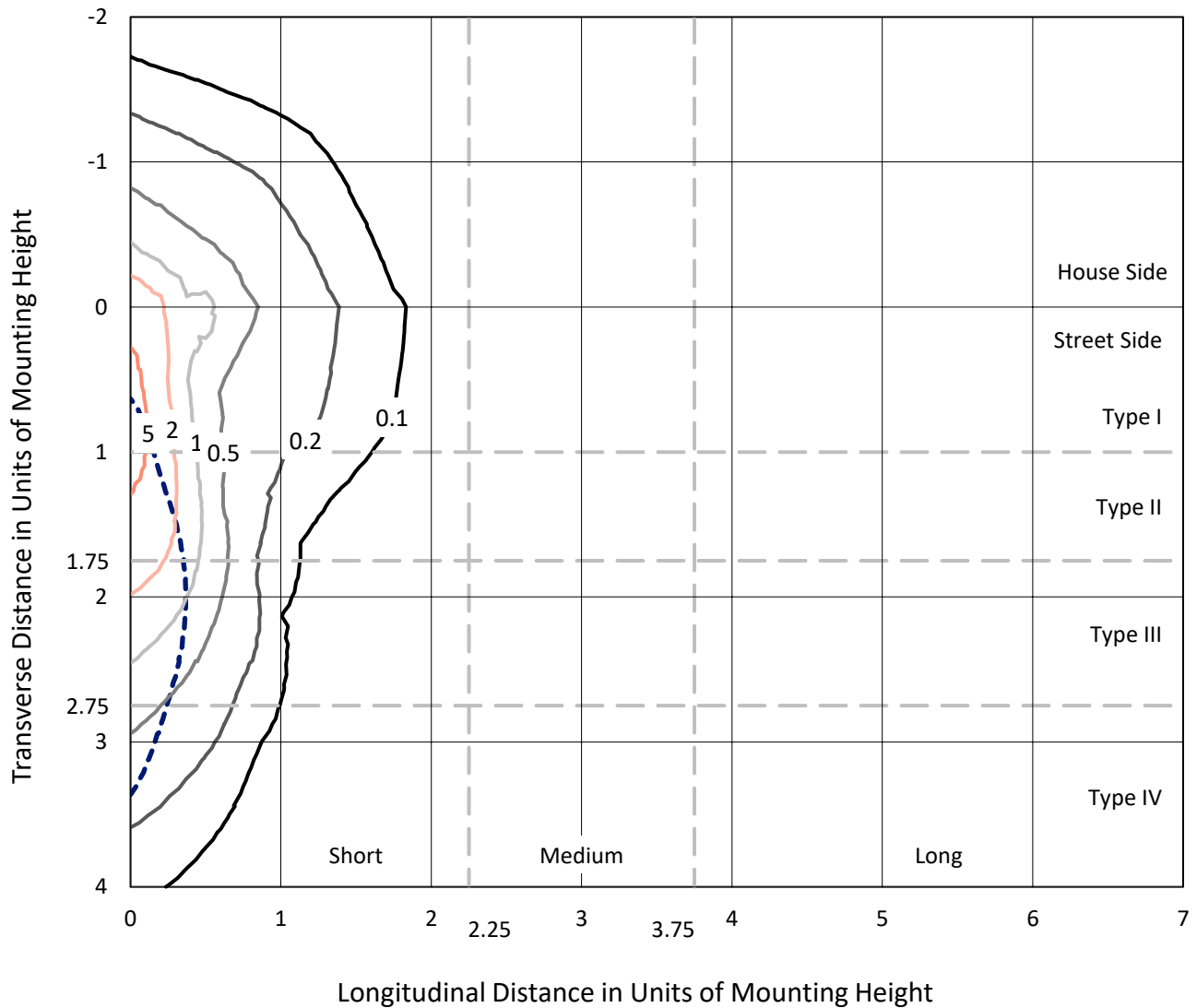
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

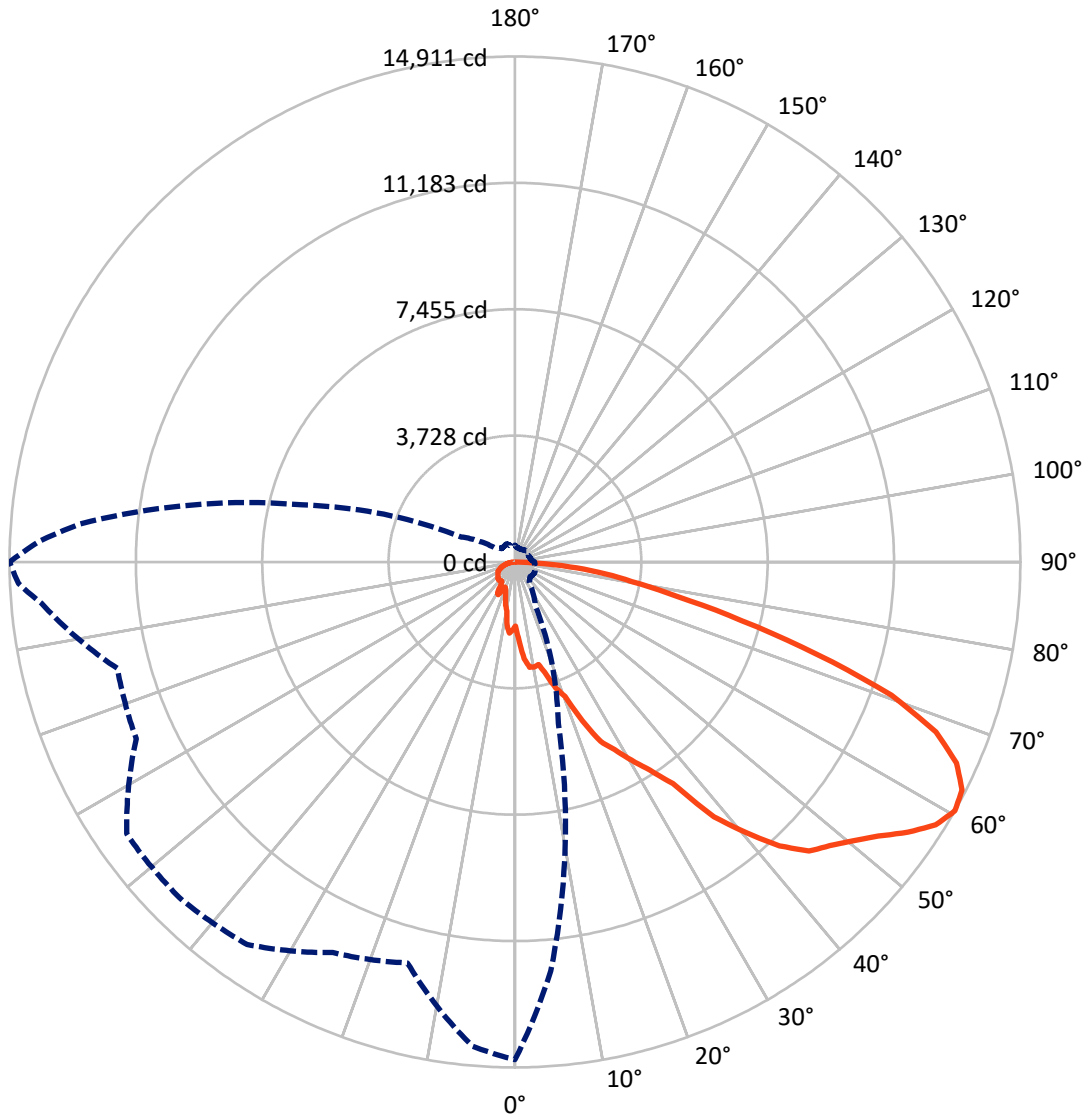
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 270-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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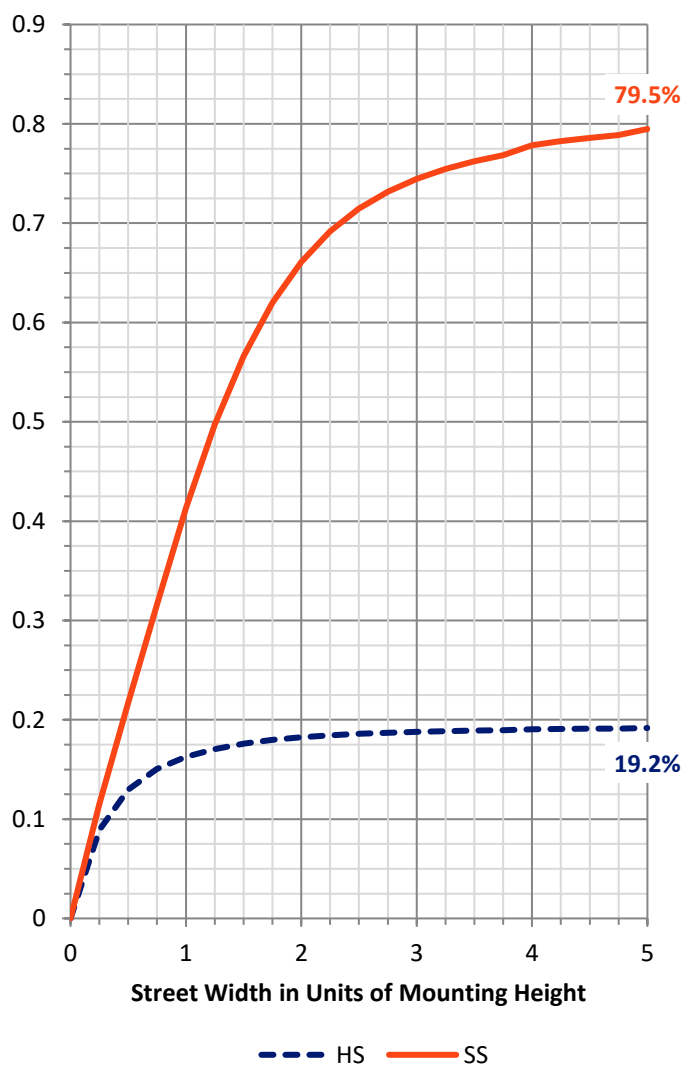
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3468.4	0.0	3468.4
	% Fixture	19.4	0.0	19.4
Street Side	Lumens	14439.6	0.0	14439.6
	% Fixture	80.6	0.0	80.6
Total	Lumens	17908.0	0.0	17908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.5	1.2
10°-20°	629.2	3.5
20°-30°	1110.8	6.2
30°-40°	1730.0	9.7
40°-50°	2848.2	15.9
50°-60°	4065.4	22.7
60°-70°	4310.8	24.1
70°-80°	2381.0	13.3
80°-90°	616.0	3.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17908.0	100.0
0°-180°	17908.0	100.0

Coefficient of Utilization



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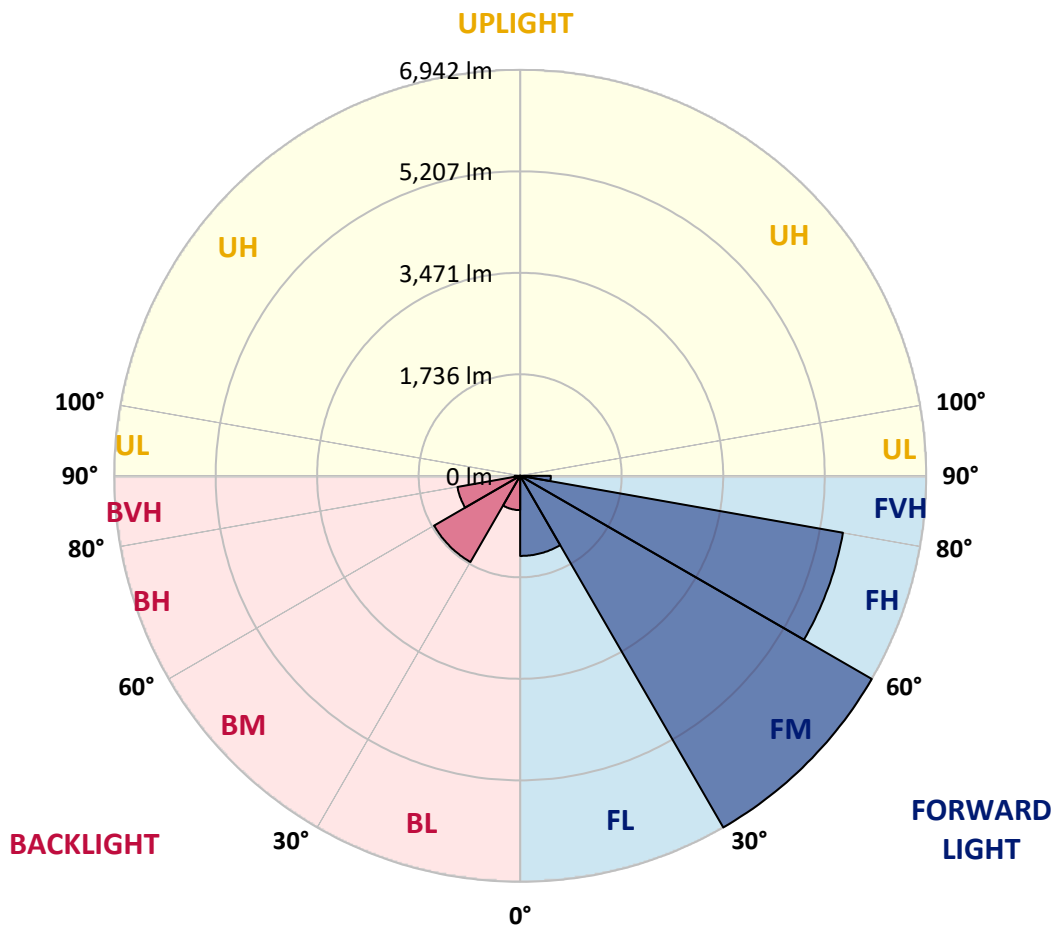
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1370.3	7.7			
FM (30°-60°)	6942.3	38.8			
FH (60°-80°)	5603.5	31.3			G3/7500
FVH (80°-90°)	523.6	2.9			G4/750
BL (0°-30°)	586.3	3.3	B2/1000		
BM (30°-60°)	1701.4	9.5	B2/2500		
BH (60°-80°)	1088.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	92.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

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°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	2529.4	2545.1	2559.9	2530.3	2500.8	2470.3	2440.8	2396.5	2351.3	2306.9	2261.7
5°	3037.9	2980.6	2922.3	2898.9	2876.3	2852.8	2829.3	2807.6	2785.9	2763.3	2741.5
7.5°	3197.0	3115.3	3032.7	2998.0	2963.2	2927.6	2892.8	2814.6	2736.3	2657.2	2579.0
10°	3022.3	2937.1	2851.1	2817.2	2782.4	2748.5	2713.7	2618.1	2523.4	2427.7	2332.1
12.5°	3163.1	3076.2	2988.4	2880.6	2772.8	2664.2	2556.4	2503.4	2450.3	2396.5	2343.4
15°	3298.7	3181.4	3063.2	2955.4	2847.6	2738.9	2631.1	2525.1	2419.1	2313.0	2207.0
17.5°	3794.2	3598.6	3403.0	3208.3	3012.7	2818.0	2622.5	2499.9	2376.5	2253.9	2130.5
20°	4398.3	4126.2	3853.3	3557.7	3261.3	2965.8	2669.4	2514.7	2360.8	2206.1	2051.4
22.5°	5117.1	4773.8	4430.4	4057.5	3684.6	3310.9	2938.0	2713.7	2489.5	2264.3	2040.1
25°	5688.2	5357.9	5027.6	4554.7	4081.9	3609.0	3136.2	2881.5	2626.8	2371.2	2116.6
27.5°	6242.8	5716.9	5190.1	4648.6	4108.0	3566.4	3024.9	2789.3	2553.8	2318.2	2082.7
30°	6711.3	6294.1	5876.8	5170.2	4463.5	3755.9	3049.2	2759.8	2470.3	2180.9	1891.4
32.5°	7397.1	6801.7	6205.4	5468.3	4731.2	3994.1	3257.0	2886.7	2516.4	2146.1	1775.8
35°	8199.4	7580.5	6961.6	6049.8	5138.9	4227.0	3315.2	2923.2	2530.3	2138.3	1745.4
37.5°	9695.3	8604.5	7512.7	6517.5	5522.2	4526.1	3530.8	3075.3	2619.8	2163.5	1708.0
40°	10520.2	9511.9	8503.6	7263.2	6022.9	4781.6	3541.2	3075.3	2608.5	2142.6	1675.9
42.5°	11619.8	10344.7	9068.6	7727.4	6387.1	5045.9	3704.6	3188.3	2672.0	2154.8	1638.5
45°	12290.0	10868.8	9446.7	8013.4	6580.0	5146.7	3713.3	3189.2	2665.0	2140.9	1616.8
47.5°	12722.0	11357.3	9991.7	8448.9	6906.0	5362.3	3819.4	3263.1	2705.9	2149.6	1592.4
50°	13131.4	11779.7	10427.2	8825.2	7224.1	5622.2	4020.2	3412.6	2805.0	2196.5	1588.9
52.5°	13633.8	12389.1	11143.5	9425.0	7705.7	5987.2	4267.9	3606.4	2944.9	2283.5	1622.0
55°	14364.8	13138.3	11911.0	10066.5	8221.1	6376.6	4531.3	3796.8	3063.2	2328.7	1594.2
57.5°	14838.6	13594.7	12350.8	10469.8	8588.8	6706.9	4825.9	4012.3	3198.8	2384.3	1570.7
60°	14681.2	13398.2	12114.4	10321.2	8528.0	6734.8	4941.5	4062.8	3184.8	2306.1	1427.3
62.5°	13985.8	12622.0	11258.2	9651.9	8046.4	6440.1	4833.8	3940.2	3047.5	2153.9	1260.4
65°	13014.0	11604.2	10193.4	8744.4	7295.4	5846.4	4397.4	3586.4	2774.6	1963.6	1151.7
67.5°	11821.5	10351.6	8880.9	7597.9	6314.9	5031.1	3748.1	3070.1	2393.0	1715.0	1037.0
70°	10325.5	8880.9	7436.2	6326.2	5216.2	4106.2	2996.2	2486.0	1976.6	1466.4	956.1
72.5°	8299.4	7052.9	5806.4	4932.9	4059.3	3185.7	2312.1	1957.5	1603.7	1249.1	894.4
75°	5902.9	5170.2	4437.4	3757.7	3077.9	2397.3	1717.6	1488.1	1258.6	1029.2	799.7
77.5°	4194.9	3762.9	3330.9	2798.0	2265.2	1732.4	1199.5	1064.8	930.9	796.2	661.5
80°	3101.4	2740.7	2379.9	1978.4	1576.8	1175.2	773.6	707.5	642.4	576.3	510.2
82.5°	2041.8	1879.3	1715.9	1397.7	1079.6	761.4	443.3	419.0	394.6	370.3	346.0
85°	914.4	965.7	1016.1	821.4	625.8	431.1	235.6	224.3	213.0	201.7	190.4
87.5°	87.8	129.5	171.2	146.9	121.7	97.4	72.1	71.3	71.3	70.4	69.5
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



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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°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	2273.9	2286.1	2298.2	2310.4	2297.4	2284.3	2270.4	2257.4	2240.9	2224.3	2207.0
5°	2705.0	2667.7	2631.1	2593.8	2538.1	2482.5	2426.0	2370.4	2363.4	2355.6	2348.6
7.5°	2510.3	2442.5	2373.9	2305.2	2218.3	2132.2	2045.3	1958.4	1932.3	1906.2	1880.1
10°	2286.1	2239.1	2193.1	2146.1	2092.2	2038.3	1983.6	1929.7	1858.4	1786.3	1715.0
12.5°	2266.9	2190.4	2113.1	2036.6	2003.6	1970.5	1937.5	1904.5	1841.9	1779.3	1715.9
15°	2145.2	2082.7	2020.9	1958.4	1910.6	1862.8	1814.9	1767.1	1716.7	1665.4	1615.0
17.5°	2059.2	1987.9	1916.6	1845.4	1790.6	1735.8	1680.2	1625.5	1564.6	1502.9	1442.0
20°	1969.7	1888.8	1807.1	1725.4	1655.9	1587.2	1517.7	1448.1	1381.2	1315.1	1248.2
22.5°	1933.2	1826.2	1719.3	1612.4	1539.4	1465.5	1392.5	1318.6	1256.9	1195.2	1133.5
25°	1988.8	1861.9	1734.1	1606.3	1508.1	1409.0	1310.8	1211.7	1160.4	1109.1	1057.0
27.5°	1923.6	1763.7	1604.6	1444.7	1339.5	1233.4	1128.3	1022.2	1014.4	1006.6	997.9
30°	1723.7	1555.9	1388.2	1220.4	1123.9	1026.6	930.1	832.7	814.5	795.3	777.1
32.5°	1604.6	1433.4	1262.1	1090.9	1004.8	917.9	831.8	744.9	724.1	703.2	682.3
35°	1559.4	1373.4	1187.4	1001.3	927.5	853.6	779.7	705.8	691.0	677.1	662.3
37.5°	1522.9	1338.6	1153.5	968.3	897.0	825.8	753.6	682.3	671.0	659.7	648.4
40°	1488.1	1301.2	1113.5	925.7	862.3	799.7	736.2	672.8	665.8	658.9	651.0
42.5°	1456.8	1275.2	1092.6	910.9	854.4	798.8	742.3	685.8	678.9	671.9	665.0
45°	1439.4	1262.1	1084.8	907.5	866.6	825.8	784.0	743.2	726.7	710.2	692.8
47.5°	1426.4	1260.4	1094.4	928.3	885.7	843.1	800.6	758.0	743.2	728.4	712.8
50°	1429.0	1269.9	1110.0	950.1	898.8	846.6	795.3	743.2	741.4	739.7	738.0
52.5°	1452.5	1283.8	1114.3	944.8	889.2	833.6	777.1	721.5	732.8	743.2	754.5
55°	1418.6	1243.0	1066.5	891.0	837.9	785.8	732.8	679.7	694.5	708.4	723.2
57.5°	1380.3	1190.0	999.6	809.2	769.3	729.3	688.4	648.4	664.1	680.6	696.2
60°	1253.4	1079.6	905.7	731.9	704.9	678.0	651.0	624.1	631.1	638.0	645.0
62.5°	1114.3	967.4	821.4	674.5	653.7	631.9	611.1	589.3	589.3	590.2	590.2
65°	1025.7	899.6	773.6	647.6	624.1	600.6	576.3	552.8	549.4	545.9	542.4
67.5°	937.0	837.9	738.0	638.0	604.1	571.1	537.2	503.3	498.9	495.5	491.1
70°	867.5	778.8	690.2	601.5	563.3	525.9	487.6	449.4	445.9	443.3	439.8
72.5°	811.0	728.4	645.0	561.5	521.5	480.7	440.7	399.8	397.2	394.6	391.2
75°	725.8	652.8	578.9	505.0	465.9	427.7	388.5	349.4	346.0	343.3	339.9
77.5°	600.6	538.9	478.1	416.4	385.9	356.4	326.0	295.5	293.8	292.1	289.5
80°	462.4	414.6	365.9	318.1	298.1	277.3	257.3	236.4	235.6	234.7	233.0
82.5°	317.3	288.6	259.9	231.2	216.4	200.8	186.0	170.4	171.2	172.1	173.0
85°	180.8	170.4	160.8	150.4	138.2	126.9	114.7	102.6	105.2	107.8	109.5
87.5°	66.1	62.6	59.1	55.6	49.5	44.3	38.2	32.2	33.9	36.5	38.2
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: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702

CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	2190.4	2164.4	2138.3	2112.2	2086.1	2032.2	1979.2	1925.3	1871.4	1904.5	1938.4
5°	2340.8	2296.5	2251.3	2207.0	2161.8	2136.6	2111.3	2086.1	2060.9	2074.0	2087.9
7.5°	1854.1	1828.0	1801.0	1775.0	1748.0	1736.7	1726.3	1715.0	1703.7	1735.8	1768.0
10°	1642.8	1606.3	1569.8	1532.4	1495.9	1474.2	1452.5	1430.7	1409.0	1417.7	1426.4
12.5°	1653.3	1599.4	1545.5	1491.6	1437.7	1405.5	1373.4	1341.2	1309.1	1316.9	1324.7
15°	1563.7	1508.1	1452.5	1396.8	1341.2	1303.8	1265.6	1228.2	1190.0	1176.9	1163.0
17.5°	1380.3	1319.5	1258.6	1197.8	1136.9	1111.7	1086.5	1061.3	1036.1	1022.2	1008.3
20°	1181.3	1124.8	1068.3	1011.8	955.3	937.9	920.5	902.3	884.9	876.2	866.6
22.5°	1071.8	1037.0	1001.3	966.6	930.9	910.9	891.8	871.8	851.8	842.3	831.8
25°	1005.7	1012.6	1020.5	1027.4	1034.4	1025.7	1016.1	1007.4	997.9	1001.3	1004.0
27.5°	990.0	1004.8	1020.5	1035.2	1050.0	1057.8	1065.7	1073.5	1081.3	1083.9	1086.5
30°	758.0	765.8	772.7	780.6	787.5	809.2	831.0	851.8	873.6	907.5	942.2
32.5°	661.5	658.9	656.3	652.8	650.2	655.4	660.6	665.0	670.2	682.3	695.4
35°	647.6	641.5	634.5	628.5	621.5	624.1	626.7	629.3	631.9	641.5	651.0
37.5°	637.1	634.5	632.8	630.2	627.6	633.7	638.9	645.0	650.2	658.0	665.8
40°	644.1	643.2	642.4	640.6	639.8	643.2	646.7	650.2	653.7	664.1	674.5
42.5°	658.0	658.0	657.1	657.1	656.3	659.7	662.3	665.8	668.4	674.5	680.6
45°	676.3	674.5	673.6	671.9	670.2	669.3	669.3	668.4	667.6	671.0	675.4
47.5°	698.0	691.9	684.9	678.9	671.9	670.2	667.6	665.8	663.2	665.0	666.7
50°	736.2	719.7	704.1	687.6	671.0	666.7	662.3	658.0	653.7	652.8	652.8
52.5°	764.9	740.6	716.2	691.9	667.6	659.7	651.9	644.1	636.3	634.5	633.7
55°	737.1	718.8	701.5	683.2	665.0	653.7	641.5	630.2	618.0	615.4	612.8
57.5°	711.9	700.6	689.3	678.0	666.7	655.4	643.2	631.9	619.8	613.7	607.6
60°	651.9	651.9	652.8	652.8	652.8	640.6	628.5	616.3	604.1	598.0	592.8
62.5°	590.2	599.8	608.5	618.0	626.7	610.2	592.8	576.3	558.9	554.6	551.1
65°	538.9	541.5	545.0	547.6	550.2	537.2	524.1	511.1	498.1	495.5	492.0
67.5°	486.8	485.9	485.0	483.3	482.4	474.6	465.9	458.1	449.4	445.9	442.4
70°	436.4	435.5	434.6	432.9	432.0	425.1	418.1	411.1	404.2	401.6	399.0
72.5°	388.5	387.7	385.9	385.1	383.3	377.2	372.0	365.9	359.9	356.4	352.9
75°	336.4	334.7	332.9	331.2	329.4	324.2	319.0	312.9	307.7	304.2	300.8
77.5°	287.7	285.1	282.5	279.0	276.4	272.1	266.9	262.5	257.3	252.9	249.5
80°	232.1	230.3	228.6	226.0	224.3	219.9	215.6	210.4	206.0	200.8	196.4
82.5°	173.8	173.0	171.2	170.4	168.6	164.3	159.9	155.6	151.2	146.0	140.8
85°	112.1	111.3	110.4	109.5	108.7	105.2	102.6	99.1	95.6	90.4	86.1
87.5°	40.0	38.2	37.4	35.6	33.9	33.0	31.3	30.4	28.7	26.1	23.5
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: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702

CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	1971.4	2004.4	2005.3	2005.3	2020.9	2035.7	2005.3	1974.9	1943.6	1913.2	1882.7
5°	2100.9	2114.0	2110.5	2106.1	2087.0	2067.9	2047.9	2027.9	2007.9	1987.9	1988.8
7.5°	1800.2	1832.3	1858.4	1883.6	1859.3	1834.9	1821.9	1808.9	1795.8	1782.8	1781.0
10°	1434.2	1442.9	1453.3	1462.9	1448.1	1432.5	1458.6	1484.6	1509.8	1535.9	1507.2
12.5°	1332.5	1340.3	1322.1	1303.0	1296.9	1290.8	1284.7	1277.8	1271.7	1264.7	1261.2
15°	1150.0	1136.1	1122.2	1107.4	1103.9	1099.6	1095.2	1090.0	1085.7	1080.4	1064.8
17.5°	994.4	980.5	957.0	932.7	923.1	912.7	910.1	907.5	904.0	901.4	886.6
20°	857.9	848.4	842.3	835.3	825.8	816.2	806.6	797.1	786.6	777.1	763.2
22.5°	822.3	811.9	804.0	795.3	793.6	791.9	774.5	756.2	738.8	720.6	712.8
25°	1007.4	1010.0	962.2	913.6	909.2	904.9	873.6	841.4	810.1	778.0	751.0
27.5°	1088.3	1090.9	1089.1	1087.4	1073.5	1058.7	1005.7	951.8	898.8	844.9	806.6
30°	976.1	1010.0	1023.1	1036.1	1026.6	1016.1	960.5	905.7	850.1	794.5	769.3
32.5°	707.5	719.7	741.4	762.3	773.6	784.0	766.7	749.3	731.9	714.5	710.2
35°	659.7	669.3	673.6	678.0	671.0	664.1	651.0	638.0	624.1	611.1	608.5
37.5°	672.8	680.6	689.3	698.0	678.9	658.9	644.1	630.2	615.4	600.6	588.5
40°	684.9	695.4	700.6	705.8	686.7	667.6	649.3	631.9	613.7	595.4	583.3
42.5°	686.7	692.8	702.3	711.9	684.9	657.1	640.6	623.2	606.7	589.3	577.2
45°	678.9	682.3	691.0	699.7	668.4	636.3	621.5	605.9	591.1	575.4	565.0
47.5°	667.6	669.3	676.3	682.3	649.3	615.4	601.5	587.6	572.8	558.9	548.5
50°	651.9	651.0	656.3	660.6	626.7	592.8	578.9	565.9	552.0	538.1	529.4
52.5°	631.9	630.2	635.4	639.8	604.1	568.5	556.3	545.0	532.8	520.7	513.7
55°	609.3	606.7	611.1	615.4	580.6	545.0	534.6	523.3	512.8	501.5	495.5
57.5°	600.6	594.6	597.2	599.8	560.7	521.5	511.1	500.7	490.2	479.8	475.5
60°	586.7	580.6	583.3	585.0	543.3	500.7	491.1	480.7	471.1	460.7	456.3
62.5°	546.7	542.4	545.9	549.4	512.0	473.7	465.0	457.2	448.5	439.8	433.7
65°	489.4	485.9	492.9	499.8	467.6	435.5	430.3	425.1	419.0	413.8	407.7
67.5°	439.0	435.5	442.4	449.4	425.9	402.5	397.2	392.0	386.8	381.6	378.1
70°	396.4	393.8	399.8	405.9	385.9	365.9	360.7	356.4	351.2	346.0	343.3
72.5°	348.6	345.1	352.9	359.9	343.3	326.0	321.6	316.4	312.1	306.8	305.1
75°	297.3	293.8	300.8	306.8	295.5	283.4	279.0	274.7	270.3	266.0	265.1
77.5°	245.1	240.8	247.7	253.8	246.9	239.0	235.6	231.2	227.7	223.4	223.4
80°	191.2	186.0	191.2	195.6	193.0	190.4	187.8	184.3	181.7	178.2	179.1
82.5°	135.6	130.4	133.0	135.6	137.3	139.1	139.1	139.1	139.1	139.1	139.1
85°	80.8	75.6	76.5	77.4	80.0	82.6	83.4	84.3	85.2	86.1	86.9
87.5°	20.9	18.3	16.5	13.9	16.5	18.3	20.0	20.9	22.6	23.5	23.5
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: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702

CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	1852.3	1821.0	1790.6	1809.7	1828.0	1847.1	1865.4	1866.2	1866.2	1867.1	1867.1
5°	1990.5	1991.4	1992.3	1974.0	1956.6	1938.4	1920.1	1910.6	1901.0	1890.6	1881.0
7.5°	1778.4	1776.7	1774.1	1756.7	1739.3	1721.9	1704.6	1662.8	1620.2	1578.5	1535.9
10°	1477.7	1449.0	1419.4	1412.5	1406.4	1399.5	1392.5	1381.2	1370.8	1359.5	1348.2
12.5°	1257.8	1254.3	1250.8	1232.6	1214.3	1195.2	1176.9	1176.9	1176.9	1176.9	1176.9
15°	1048.3	1032.6	1016.1	1007.4	997.9	989.2	979.6	975.3	970.9	966.6	962.2
17.5°	871.0	856.2	840.5	838.8	837.1	835.3	833.6	829.2	824.9	820.5	816.2
20°	749.3	735.4	721.5	726.7	731.9	736.2	741.4	737.1	732.8	727.5	723.2
22.5°	704.1	696.2	687.6	683.2	678.9	673.6	669.3	669.3	670.2	670.2	670.2
25°	724.9	698.0	671.0	658.0	645.0	631.1	618.0	612.8	608.5	603.2	598.0
27.5°	768.4	729.3	691.0	668.4	645.8	623.2	600.6	591.1	580.6	571.1	560.7
30°	743.2	718.0	691.9	665.8	639.8	613.7	587.6	575.4	563.3	550.2	538.1
32.5°	705.8	700.6	696.2	671.9	647.6	622.4	598.0	592.8	588.5	583.3	578.0
35°	605.0	602.4	598.9	592.8	586.7	580.6	574.6	567.6	560.7	553.7	546.7
37.5°	577.2	565.0	552.8	550.2	547.6	545.0	542.4	539.8	537.2	533.7	531.1
40°	571.1	558.9	546.7	542.4	538.1	532.8	528.5	529.4	531.1	532.0	532.8
42.5°	564.1	552.0	538.9	535.4	532.0	528.5	525.0	525.9	527.6	528.5	529.4
45°	555.4	545.0	534.6	528.5	523.3	517.2	511.1	516.3	521.5	525.9	531.1
47.5°	538.1	526.8	516.3	512.8	509.4	505.0	501.5	506.8	512.0	516.3	521.5
50°	519.8	511.1	501.5	500.7	499.8	498.1	497.2	500.7	504.2	507.6	511.1
52.5°	505.9	498.9	491.1	491.1	490.2	490.2	489.4	492.9	496.3	498.9	502.4
55°	490.2	484.2	478.1	478.9	480.7	481.6	482.4	485.9	490.2	493.7	497.2
57.5°	470.3	465.9	460.7	464.2	466.8	470.3	472.9	475.5	478.9	481.6	484.2
60°	451.1	446.8	441.6	445.0	449.4	452.9	456.3	459.0	461.6	464.2	466.8
62.5°	427.7	420.7	414.6	419.8	424.2	429.4	433.7	435.5	438.1	439.8	441.6
65°	402.5	396.4	390.3	393.8	397.2	399.8	403.3	405.9	408.5	411.1	413.8
67.5°	373.8	370.3	365.9	368.6	371.2	373.8	376.4	377.2	377.2	378.1	378.1
70°	339.9	337.3	333.8	335.5	338.1	339.9	341.6	341.6	341.6	340.7	340.7
72.5°	304.2	302.5	300.8	301.6	303.4	304.2	305.1	304.2	303.4	302.5	301.6
75°	264.2	263.4	262.5	263.4	265.1	266.0	266.9	266.0	264.2	263.4	261.6
77.5°	224.3	224.3	224.3	224.3	225.1	225.1	225.1	223.4	221.7	219.9	218.2
80°	179.9	180.8	181.7	181.7	181.7	181.7	181.7	179.9	178.2	175.6	173.8
82.5°	139.1	139.1	139.1	139.1	139.9	139.9	139.9	135.6	132.1	127.8	123.4
85°	86.9	87.8	87.8	88.7	89.5	89.5	90.4	84.3	79.1	73.0	66.9
87.5°	23.5	23.5	23.5	23.5	23.5	22.6	22.6	17.4	11.3	6.1	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: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702

CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	1872.3	1877.5	1881.9	1887.1	1888.0	1888.8	1888.8	1889.7	1871.4	1853.2	1834.1
5°	1894.0	1906.2	1919.3	1931.4	1928.8	1926.2	1923.6	1921.0	1915.8	1911.4	1906.2
7.5°	1526.4	1517.7	1508.1	1498.5	1506.4	1514.2	1522.0	1529.8	1533.3	1536.8	1539.4
10°	1326.4	1304.7	1283.0	1261.2	1249.1	1236.0	1223.9	1210.8	1209.1	1208.2	1206.5
12.5°	1154.3	1130.9	1108.3	1084.8	1077.8	1070.0	1063.1	1055.2	1062.2	1069.1	1075.2
15°	952.7	944.0	934.4	924.9	932.7	940.5	948.3	956.1	963.1	969.2	976.1
17.5°	811.9	808.4	804.0	799.7	806.6	814.5	821.4	828.4	844.0	859.7	875.3
20°	719.7	717.1	713.6	710.2	707.5	704.1	701.5	698.0	720.6	742.3	764.9
22.5°	665.0	659.7	654.5	649.3	650.2	651.0	651.0	651.9	670.2	689.3	707.5
25°	596.3	594.6	592.8	591.1	596.3	601.5	605.9	611.1	627.6	644.1	659.7
27.5°	561.5	562.4	563.3	564.1	571.1	578.9	585.9	592.8	604.1	615.4	626.7
30°	542.4	547.6	552.0	556.3	558.9	561.5	564.1	566.7	578.0	588.5	599.8
32.5°	571.1	564.1	556.3	549.4	552.8	557.2	560.7	564.1	574.6	585.0	595.4
35°	544.1	540.7	538.1	534.6	538.9	543.3	546.7	551.1	560.7	569.3	578.9
37.5°	530.2	529.4	528.5	527.6	530.2	532.8	534.6	537.2	545.9	554.6	562.4
40°	529.4	525.0	521.5	517.2	519.8	522.4	524.1	526.8	537.2	547.6	558.0
42.5°	524.1	518.9	512.8	507.6	510.2	513.7	516.3	518.9	530.2	540.7	552.0
45°	523.3	515.5	506.8	498.9	502.4	505.9	509.4	512.8	521.5	530.2	538.1
47.5°	513.7	505.9	498.1	490.2	492.0	493.7	494.6	496.3	504.2	511.1	518.9
50°	505.9	499.8	494.6	488.5	485.9	484.2	481.6	478.9	485.0	491.1	497.2
52.5°	496.3	490.2	483.3	477.2	473.7	470.3	466.8	463.3	468.5	472.9	478.1
55°	490.2	482.4	475.5	467.6	463.3	459.0	454.6	450.3	453.7	456.3	459.8
57.5°	477.2	470.3	462.4	455.5	450.3	445.0	439.0	433.7	435.5	437.2	439.0
60°	459.8	452.0	445.0	437.2	431.1	425.1	418.1	412.0	412.9	414.6	415.5
62.5°	434.6	427.7	419.8	412.9	405.9	399.8	392.9	385.9	387.7	388.5	390.3
65°	406.8	399.0	392.0	384.2	378.1	372.0	365.1	359.0	360.7	362.5	363.3
67.5°	372.9	366.8	361.6	355.5	350.3	344.2	339.0	332.9	333.8	334.7	335.5
70°	336.4	331.2	326.8	321.6	317.3	312.9	308.6	304.2	304.2	305.1	305.1
72.5°	297.3	292.9	288.6	284.2	279.9	276.4	272.1	267.7	269.5	271.2	272.1
75°	257.3	253.8	249.5	245.1	241.6	238.2	233.8	230.3	232.1	233.8	234.7
77.5°	215.6	213.0	209.5	206.9	203.4	199.9	195.6	192.1	193.8	195.6	196.4
80°	172.1	170.4	167.8	166.0	162.5	159.1	155.6	152.1	153.0	153.0	153.9
82.5°	124.3	125.2	125.2	126.0	123.4	120.0	117.3	113.9	113.9	113.9	113.0
85°	69.5	73.0	75.6	78.2	75.6	73.0	70.4	67.8	66.9	66.9	66.1
87.5°	2.6	4.3	7.0	8.7	7.8	7.0	5.2	4.3	5.2	6.1	6.1
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: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702

CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	1815.8	1830.6	1845.4	1860.1	1874.9	1897.5	1920.1	1943.6	1967.1	1954.0	1940.1
5°	1901.0	1909.7	1919.3	1927.9	1936.6	1961.8	1986.2	2016.6	2046.2	2042.7	2038.3
7.5°	1542.9	1555.0	1567.2	1578.5	1590.7	1628.9	1667.2	1699.3	1731.5	1727.2	1721.9
10°	1204.7	1230.0	1256.0	1281.2	1306.4	1337.7	1368.2	1395.1	1422.1	1467.3	1511.6
12.5°	1082.2	1121.3	1160.4	1199.5	1238.6	1261.2	1283.0	1317.7	1352.5	1376.9	1402.1
15°	982.2	1018.7	1055.2	1091.7	1128.3	1130.0	1131.7	1168.2	1204.7	1225.6	1245.6
17.5°	891.0	910.9	930.9	950.1	970.1	963.1	956.1	973.5	990.0	998.7	1008.3
20°	786.6	800.6	814.5	828.4	842.3	851.8	860.5	871.0	880.5	871.8	862.3
22.5°	725.8	746.7	768.4	789.3	810.1	816.2	821.4	815.3	809.2	806.6	804.0
25°	676.3	701.5	727.5	752.7	778.0	790.1	802.3	807.5	811.9	802.3	792.7
27.5°	638.0	668.4	698.0	728.4	758.0	779.7	801.4	807.5	812.7	805.8	797.9
30°	610.2	643.2	676.3	709.3	742.3	775.3	807.5	836.2	864.0	861.4	858.8
32.5°	605.9	628.5	651.0	673.6	696.2	717.1	737.1	738.8	739.7	732.8	724.9
35°	587.6	602.4	617.2	631.9	646.7	659.7	671.9	670.2	668.4	661.5	654.5
37.5°	571.1	585.9	601.5	616.3	631.1	653.7	675.4	671.0	665.8	658.9	651.9
40°	568.5	585.0	601.5	617.2	633.7	654.5	675.4	671.0	666.7	658.0	649.3
42.5°	562.4	578.9	594.6	611.1	626.7	651.9	676.3	668.4	659.7	652.8	645.8
45°	546.7	561.5	576.3	591.1	605.9	632.8	659.7	650.2	640.6	638.0	634.5
47.5°	525.9	540.7	555.4	570.2	585.0	611.9	638.0	630.2	621.5	620.6	618.9
50°	503.3	517.2	532.0	545.9	559.8	586.7	612.8	605.9	598.9	599.8	599.8
52.5°	482.4	495.5	507.6	520.7	532.8	559.8	585.9	580.6	574.6	576.3	577.2
55°	462.4	472.9	483.3	493.7	504.2	530.2	556.3	548.5	540.7	543.3	545.9
57.5°	440.7	449.4	458.1	465.9	474.6	500.7	525.9	517.2	507.6	512.0	515.5
60°	416.4	424.2	432.0	439.0	446.8	470.3	492.9	485.0	476.3	482.4	487.6
62.5°	391.2	397.2	403.3	409.4	415.5	437.2	459.0	452.9	446.8	453.7	459.8
65°	365.1	369.4	374.6	379.0	383.3	404.2	424.2	419.8	415.5	421.6	427.7
67.5°	336.4	339.9	344.2	347.7	351.2	370.3	389.4	385.1	379.9	385.1	389.4
70°	305.1	308.6	311.2	314.7	317.3	334.7	352.0	346.0	339.0	344.2	348.6
72.5°	273.8	275.5	278.2	279.9	281.6	294.7	307.7	302.5	297.3	302.5	306.8
75°	236.4	238.2	239.9	241.6	243.4	254.7	265.1	259.0	252.1	257.3	262.5
77.5°	198.2	199.1	200.8	201.7	202.5	210.4	217.3	211.2	204.3	210.4	216.4
80°	153.9	154.7	155.6	155.6	156.5	159.1	161.7	157.3	152.1	159.9	167.8
82.5°	113.0	112.1	112.1	111.3	110.4	110.4	109.5	106.9	103.4	110.4	117.3
85°	65.2	64.3	62.6	61.7	60.0	57.4	54.8	53.9	53.0	59.1	65.2
87.5°	7.0	6.1	4.3	3.5	1.7	0.9	0.0	0.0	0.0	3.5	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702

CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	1927.1	1913.2	1900.1	1887.1	1874.1	1861.0	1885.4	1909.7	1934.0	1958.4	1980.1
5°	2034.9	2030.5	2019.2	2008.8	1997.5	1986.2	1992.3	1999.2	2005.3	2011.4	2024.4
7.5°	1717.6	1712.4	1736.7	1760.2	1784.5	1808.0	1814.1	1819.3	1825.4	1830.6	1827.1
10°	1556.8	1601.1	1612.4	1622.8	1634.1	1644.6	1662.0	1679.3	1695.9	1713.2	1722.8
12.5°	1426.4	1450.7	1490.7	1531.6	1571.6	1611.5	1637.6	1663.7	1689.8	1715.9	1769.7
15°	1266.5	1286.5	1316.9	1347.3	1377.7	1408.1	1445.5	1483.8	1521.1	1558.5	1617.6
17.5°	1017.0	1025.7	1048.3	1070.9	1092.6	1115.2	1165.6	1215.2	1265.6	1315.1	1382.9
20°	853.6	844.0	844.0	844.9	844.9	844.9	895.3	944.8	995.3	1044.8	1134.3
22.5°	800.6	797.9	788.4	778.0	768.4	758.0	784.0	811.0	837.1	863.1	936.2
25°	782.3	772.7	760.6	748.4	736.2	724.1	740.6	757.1	773.6	790.1	847.5
27.5°	791.0	783.2	789.3	794.5	800.6	805.8	811.0	816.2	821.4	826.6	846.6
30°	856.2	853.6	863.1	871.8	881.4	890.1	877.9	866.6	854.4	842.3	849.2
32.5°	718.0	710.2	706.7	703.2	699.7	696.2	695.4	694.5	692.8	691.9	707.5
35°	647.6	640.6	635.4	630.2	624.1	618.9	621.5	623.2	625.8	627.6	645.0
37.5°	645.0	638.0	631.9	625.8	618.9	612.8	615.4	618.9	621.5	624.1	637.1
40°	640.6	631.9	628.5	625.0	621.5	618.0	619.8	621.5	622.4	624.1	633.7
42.5°	638.0	631.1	629.3	627.6	625.8	624.1	625.8	627.6	628.5	630.2	641.5
45°	631.9	628.5	630.2	631.9	633.7	635.4	635.4	635.4	635.4	635.4	647.6
47.5°	618.0	616.3	621.5	626.7	631.9	637.1	645.8	654.5	662.3	671.0	673.6
50°	600.6	600.6	609.3	618.0	625.8	634.5	655.4	675.4	696.2	716.2	703.2
52.5°	578.9	579.8	592.8	605.0	618.0	630.2	649.3	668.4	686.7	705.8	686.7
55°	547.6	550.2	566.7	582.4	598.9	614.5	629.3	644.1	658.9	673.6	653.7
57.5°	519.8	523.3	540.7	557.2	574.6	591.1	599.8	609.3	618.0	626.7	613.7
60°	493.7	498.9	521.5	544.1	565.9	588.5	581.5	574.6	566.7	559.8	558.9
62.5°	466.8	472.9	493.7	514.6	534.6	555.4	545.0	534.6	523.3	512.8	517.2
65°	432.9	439.0	448.5	458.1	466.8	476.3	475.5	475.5	474.6	473.7	482.4
67.5°	394.6	399.0	405.1	410.3	416.4	421.6	425.1	429.4	432.9	436.4	446.8
70°	353.8	358.1	364.2	369.4	375.5	380.7	385.1	389.4	392.9	397.2	407.7
72.5°	312.1	316.4	322.5	328.6	333.8	339.9	343.3	346.8	349.4	352.9	361.6
75°	267.7	272.9	279.0	284.2	290.3	295.5	298.1	300.8	303.4	306.0	313.8
77.5°	222.5	228.6	234.7	240.8	246.9	252.9	253.8	254.7	255.6	256.4	263.4
80°	174.7	182.5	188.6	194.7	200.8	206.9	206.9	206.9	206.9	206.9	210.4
82.5°	124.3	131.3	138.2	144.3	151.2	157.3	157.3	156.5	156.5	155.6	155.6
85°	71.3	77.4	81.7	86.9	91.3	95.6	95.6	95.6	94.7	94.7	93.0
87.5°	11.3	14.8	16.5	19.1	20.9	22.6	21.7	21.7	20.9	20.0	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



REPORT NUMBER: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702

CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	2001.8	2023.6	2045.3	2041.8	2038.3	2034.9	2031.4	2044.4	2056.6	2069.6	2081.8
5°	2036.6	2049.6	2061.8	2071.4	2080.9	2090.5	2100.0	2144.4	2187.8	2232.2	2275.6
7.5°	1823.6	1819.3	1815.8	1856.7	1898.4	1939.2	1980.1	2036.6	2093.1	2149.6	2206.1
10°	1732.4	1741.9	1751.5	1768.0	1785.4	1801.9	1818.4	1874.1	1929.7	1985.3	2040.9
12.5°	1822.8	1876.7	1929.7	1942.7	1956.6	1969.7	1982.7	1994.0	2005.3	2015.7	2027.0
15°	1676.7	1735.8	1795.0	1828.9	1862.8	1895.8	1929.7	2014.9	2099.2	2184.4	2268.7
17.5°	1449.9	1517.7	1584.6	1668.0	1751.5	1834.9	1918.4	1996.6	2074.8	2152.2	2230.4
20°	1223.9	1312.5	1402.1	1493.3	1583.7	1675.0	1765.4	1841.9	1918.4	1994.0	2070.5
22.5°	1008.3	1081.3	1153.5	1264.7	1375.1	1486.4	1596.8	1739.3	1881.0	2023.6	2165.2
25°	904.0	961.4	1017.9	1132.6	1247.3	1361.2	1475.9	1661.1	1845.4	2030.5	2214.8
27.5°	867.5	887.5	907.5	1011.8	1115.2	1219.5	1323.0	1522.9	1722.8	1921.9	2121.8
30°	856.2	863.1	870.1	951.8	1033.5	1115.2	1196.9	1394.2	1592.4	1789.7	1987.0
32.5°	722.3	738.0	752.7	832.7	911.8	991.8	1070.9	1269.9	1468.1	1667.2	1865.4
35°	662.3	679.7	697.1	775.3	853.6	930.9	1009.2	1218.7	1429.0	1638.5	1848.0
37.5°	650.2	663.2	676.3	764.9	853.6	942.2	1030.9	1243.0	1455.1	1667.2	1879.3
40°	644.1	653.7	663.2	749.3	836.2	922.2	1008.3	1230.8	1452.5	1675.0	1896.7
42.5°	651.9	663.2	673.6	751.9	829.2	907.5	984.8	1215.2	1444.7	1675.0	1904.5
45°	658.9	671.0	682.3	755.4	828.4	901.4	974.4	1220.4	1465.5	1711.5	1956.6
47.5°	675.4	678.0	679.7	743.2	805.8	869.2	931.8	1182.1	1432.5	1682.0	1932.3
50°	689.3	676.3	662.3	728.4	793.6	859.7	924.9	1162.2	1399.5	1635.9	1873.2
52.5°	667.6	647.6	628.5	699.7	771.0	841.4	912.7	1150.0	1388.2	1625.5	1862.8
55°	634.5	614.5	594.6	666.7	738.8	811.0	883.1	1119.6	1356.9	1593.3	1829.7
57.5°	601.5	588.5	575.4	634.5	694.5	753.6	812.7	1069.1	1324.7	1581.1	1836.7
60°	558.0	556.3	555.4	601.5	648.4	694.5	740.6	991.8	1242.1	1493.3	1743.7
62.5°	520.7	525.0	528.5	565.9	603.2	639.8	677.1	919.6	1163.0	1405.5	1648.1
65°	492.0	500.7	509.4	552.0	594.6	636.3	678.9	882.3	1085.7	1289.1	1492.5
67.5°	457.2	467.6	478.1	533.7	589.3	645.0	700.6	868.4	1036.1	1203.9	1371.6
70°	417.2	427.7	437.2	508.5	578.9	650.2	720.6	869.2	1018.7	1167.4	1316.0
72.5°	370.3	379.0	387.7	464.2	540.7	617.2	693.6	819.7	945.7	1070.9	1196.9
75°	322.5	330.3	338.1	404.2	470.3	536.3	602.4	699.7	796.2	893.6	990.0
77.5°	269.5	276.4	282.5	326.8	371.2	415.5	459.8	534.6	608.5	683.2	757.1
80°	213.8	217.3	220.8	246.9	272.1	298.1	323.4	372.9	422.4	471.1	520.7
82.5°	156.5	156.5	156.5	173.0	190.4	206.9	223.4	248.6	272.9	298.1	322.5
85°	91.3	88.7	86.9	98.2	109.5	120.8	132.1	142.6	153.0	163.4	173.8
87.5°	14.8	11.3	8.7	15.6	22.6	29.6	36.5	40.0	44.3	47.8	51.3
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: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702

CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	2052.2	2023.6	1994.0	1964.4	2007.9	2051.4	2094.8	2138.3	2253.9	2322.6	2326.9
5°	2312.1	2348.6	2385.2	2421.7	2458.2	2494.7	2530.3	2566.8	2754.6	2870.2	2891.9
7.5°	2266.1	2326.9	2386.9	2446.9	2550.3	2653.7	2757.2	2860.6	3019.7	3134.4	3210.1
10°	2115.7	2190.4	2265.2	2340.0	2462.5	2585.9	2708.5	2831.1	2999.7	3150.9	3223.1
12.5°	2146.1	2265.2	2383.4	2502.5	2608.5	2715.5	2821.5	2927.6	3044.0	3101.4	3232.6
15°	2351.3	2433.8	2516.4	2599.0	2758.9	2918.0	3077.9	3237.0	3303.1	3434.3	3552.5
17.5°	2382.5	2533.8	2685.9	2837.2	3032.7	3228.3	3423.9	3619.5	3742.0	3911.5	4054.1
20°	2285.2	2499.0	2713.7	2927.6	3179.6	3432.6	3684.6	3936.7	4092.3	4234.9	4455.7
22.5°	2401.7	2638.1	2873.7	3110.1	3444.7	3778.5	4113.2	4447.0	4772.0	5090.2	5239.7
25°	2530.3	2846.7	3162.2	3477.8	3895.9	4313.1	4731.2	5148.4	5566.5	5864.7	6036.8
27.5°	2439.9	2757.2	3075.3	3392.6	3909.8	4427.8	4945.0	5462.2	5909.9	6268.9	6416.6
30°	2376.5	2765.9	3155.3	3544.7	4151.4	4758.1	5364.9	5971.6	6385.3	6786.0	7003.4
32.5°	2365.2	2865.0	3363.9	3863.7	4570.4	5276.2	5982.9	6688.7	6963.4	7318.9	7611.8
35°	2396.5	2945.8	3494.3	4042.8	4852.9	5663.0	6472.3	7282.4	7672.7	8024.7	8281.1
37.5°	2492.1	3104.9	3716.8	4329.6	5305.8	6282.8	7258.9	8235.0	8889.6	9533.7	9648.4
40°	2546.0	3196.1	3845.5	4494.8	5630.0	6765.2	7900.4	9035.6	9788.3	10495.0	10542.8
42.5°	2609.4	3314.4	4018.4	4723.4	5982.0	7241.5	8500.2	9758.8	10690.6	11450.3	11472.9
45°	2682.4	3407.4	4133.2	4858.1	6172.4	7485.8	8800.0	10113.4	11240.0	12163.1	11937.9
47.5°	2711.1	3490.8	4269.6	5048.5	6449.7	7850.0	9251.2	10651.5	11662.4	12502.1	12286.5
50°	2722.4	3572.5	4421.8	5271.0	6722.6	8175.1	9626.7	11078.3	12106.6	12925.4	12595.1
52.5°	2792.8	3722.9	4653.0	5583.0	7095.5	8607.9	10120.4	11632.8	12644.6	13431.3	13021.0
55°	2887.6	3945.4	5002.4	6060.2	7625.7	9190.3	10755.8	12320.4	13335.7	14067.5	13559.0
57.5°	2975.4	4114.9	5253.6	6392.3	8014.3	9637.1	11259.1	12881.1	13909.3	14633.4	14140.6
60°	2932.8	4121.9	5311.0	6500.1	8094.2	9687.5	11281.7	12875.0	14042.3	14910.7	14658.6
62.5°	2804.1	3960.2	5115.4	6271.5	7784.8	9297.2	10810.6	12323.0	13689.4	14802.9	14791.6
65°	2556.4	3620.3	4683.4	5747.3	7147.6	8548.8	9949.2	11349.5	12960.2	14312.7	14400.5
67.5°	2254.8	3137.9	4021.0	4904.2	6222.8	7541.4	8860.0	10178.6	11900.6	13393.0	13468.7
70°	1962.7	2610.3	3257.0	3903.7	5061.5	6219.3	7376.2	8534.1	10273.4	11783.2	11852.8
72.5°	1620.2	2043.5	2466.0	2889.3	3827.2	4765.1	5702.1	6640.0	8167.2	9328.5	9720.5
75°	1241.3	1492.5	1743.7	1994.9	2753.7	3512.5	4270.5	5029.3	6044.6	6901.7	7343.2
77.5°	887.5	1017.9	1148.2	1278.6	1923.6	2568.6	3212.7	3857.6	4391.3	4877.2	5175.4
80°	582.4	643.2	704.9	765.8	1302.1	1838.4	2373.9	2910.2	3235.3	3496.0	3646.4
82.5°	352.9	383.3	412.9	443.3	877.9	1312.5	1746.3	2180.9	2366.9	2491.2	2625.1
85°	190.4	206.9	223.4	239.9	518.9	797.1	1076.1	1354.3	1372.5	1387.3	1586.3
87.5°	55.6	60.8	65.2	69.5	114.7	160.8	206.0	251.2	156.5	97.4	199.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702

CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	2301.7	2290.4	2279.1	2266.9	2255.6	2207.8	2160.9	2113.1	2065.3	2111.3	2156.5
5°	2866.7	2901.5	2935.4	2970.1	3004.9	3007.5	3009.3	3011.9	3013.6	3022.3	3031.0
7.5°	3273.5	3335.2	3396.1	3457.8	3519.5	3567.3	3615.1	3663.8	3711.6	3668.1	3624.7
10°	3308.3	3438.7	3569.0	3699.4	3829.8	3853.3	3875.9	3899.3	3922.8	3954.1	3984.5
12.5°	3343.0	3502.1	3660.3	3819.4	3978.4	4048.0	4116.7	4186.2	4254.9	4288.8	4321.8
15°	3710.7	3804.6	3897.6	3991.5	4084.5	4132.3	4179.2	4227.0	4274.9	4303.5	4331.4
17.5°	4183.6	4218.4	4252.3	4287.0	4321.8	4354.0	4386.1	4418.3	4450.4	4455.7	4460.9
20°	4614.7	4621.7	4627.8	4634.7	4640.8	4573.0	4506.1	4438.3	4370.5	4382.6	4393.9
22.5°	5261.4	5223.2	5185.8	5147.6	5110.2	4982.4	4855.5	4727.7	4600.8	4546.0	4492.2
25°	6235.0	6137.6	6040.2	5942.9	5845.5	5642.1	5439.6	5236.2	5033.7	4914.6	4796.4
27.5°	6548.7	6336.7	6125.4	5913.3	5701.3	5547.4	5394.4	5240.6	5087.6	4899.0	4710.3
30°	7183.3	6848.6	6514.8	6180.2	5845.5	5696.9	5548.3	5398.8	5250.1	5057.2	4865.1
32.5°	7745.7	7398.0	7050.3	6701.7	6354.0	6072.4	5790.8	5509.2	5227.5	5097.1	4966.8
35°	8396.7	7959.5	7522.3	7085.1	6647.8	6406.2	6165.4	5923.8	5683.0	5485.7	5289.2
37.5°	9345.0	8880.0	8415.0	7949.1	7484.0	7157.2	6831.2	6504.4	6178.5	6069.8	5962.0
40°	10249.0	9699.7	9151.2	8601.9	8053.4	7803.0	7552.7	7301.5	7051.2	6867.8	6684.3
42.5°	11006.1	10462.9	9920.5	9377.2	8834.8	8652.3	8470.6	8288.1	8106.4	7955.2	7803.9
45°	11266.0	10822.7	10380.3	9937.0	9493.7	9429.4	9365.9	9301.6	9238.1	9126.0	9013.9
47.5°	11684.1	11232.1	10781.0	10329.0	9877.0	9900.5	9923.9	9948.3	9971.8	9977.8	9983.1
50°	11930.1	11500.7	11072.2	10642.8	10214.3	10328.1	10441.1	10555.0	10668.9	10927.0	11184.3
52.5°	12289.1	11867.5	11446.8	11025.3	10603.7	10796.7	10988.7	11181.7	11373.8	11735.4	12097.0
55°	12739.4	12336.0	11933.6	11530.3	11127.8	11315.6	11502.5	11690.2	11877.1	12279.5	12682.0
57.5°	13336.5	12904.5	12473.4	12041.4	11610.2	11783.2	11955.3	12128.3	12300.4	12682.9	13065.3
60°	14016.3	13546.9	13077.5	12607.2	12137.9	12185.7	12232.6	12280.4	12327.4	12742.0	13155.7
62.5°	14350.0	13915.4	13481.7	13047.1	12612.5	12479.5	12346.5	12212.6	12079.6	12450.8	12821.1
65°	14060.6	13761.6	13463.4	13164.4	12865.4	12630.7	12396.9	12162.2	11927.5	12159.6	12390.8
67.5°	13139.2	12969.7	12801.1	12631.6	12462.1	12068.3	11674.6	11279.9	10886.2	10901.8	10916.6
70°	11645.9	11600.7	11556.4	11511.2	11466.0	10874.0	10282.9	9691.0	9099.1	9008.7	8918.3
72.5°	9753.6	9783.1	9811.8	9841.4	9870.9	9234.7	8598.4	7962.1	7325.8	7175.5	7025.1
75°	7554.4	7717.9	7881.3	8045.6	8209.0	7600.5	6992.1	6382.7	5774.3	5589.1	5404.0
77.5°	5337.9	5643.0	5947.2	6252.3	6557.4	6007.2	5457.9	4907.6	4357.4	4237.5	4117.5
80°	3722.0	3871.5	4021.0	4170.5	4320.1	4043.6	3767.2	3490.8	3214.4	3247.4	3279.6
82.5°	2711.1	2745.9	2779.8	2814.6	2849.3	2736.3	2623.3	2509.5	2396.5	2482.5	2568.6
85°	1736.7	1861.0	1984.4	2108.7	2232.2	2107.0	1981.8	1855.8	1730.6	1788.0	1845.4
87.5°	388.5	614.5	840.5	1067.4	1293.4	1171.7	1050.9	929.2	807.5	752.7	698.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702

CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	2202.6	2248.7	2234.8	2221.7	2207.8	2193.9	2219.1	2244.3	2270.4	2295.6	2286.9
5°	3040.6	3049.2	2966.7	2885.0	2802.4	2719.8	2771.1	2822.4	2873.7	2924.9	2906.7
7.5°	3581.2	3537.7	3489.9	3442.1	3393.5	3345.6	3335.2	3324.8	3313.5	3303.1	3289.1
10°	4015.8	4046.2	4015.0	3984.5	3953.2	3921.9	3848.9	3775.9	3702.0	3629.0	3598.6
12.5°	4355.7	4389.6	4397.4	4404.4	4412.2	4420.0	4338.3	4257.5	4175.8	4094.1	4020.2
15°	4360.0	4388.7	4413.9	4438.3	4463.5	4487.8	4437.4	4387.9	4337.4	4287.0	4263.6
17.5°	4467.0	4472.2	4451.3	4431.3	4410.5	4390.5	4370.5	4351.3	4331.4	4312.2	4274.9
20°	4406.1	4418.3	4415.7	4413.1	4409.6	4407.0	4408.7	4409.6	4411.3	4412.2	4391.3
22.5°	4437.4	4382.6	4393.9	4404.4	4415.7	4426.1	4457.4	4488.7	4520.8	4552.1	4635.6
25°	4677.3	4558.2	4540.0	4522.6	4504.3	4486.9	4568.6	4649.5	4731.2	4812.9	4948.5
27.5°	4520.8	4332.2	4290.5	4248.8	4207.1	4165.3	4289.6	4413.1	4537.4	4661.7	4799.9
30°	4672.1	4480.0	4387.9	4295.7	4202.7	4110.6	4229.7	4347.9	4467.0	4585.2	4738.1
32.5°	4836.4	4706.0	4644.3	4583.4	4521.7	4460.9	4470.4	4480.0	4489.6	4499.1	4714.7
35°	5091.9	4894.6	4833.8	4772.9	4712.1	4651.2	4752.9	4853.8	4955.5	5056.3	5238.8
37.5°	5853.4	5744.7	5635.2	5525.7	5415.3	5305.8	5365.7	5425.7	5485.7	5545.7	5717.8
40°	6500.9	6317.5	6299.3	6281.9	6263.6	6245.4	6250.6	6254.9	6260.2	6265.4	6412.3
42.5°	7651.8	7500.5	7407.5	7314.5	7221.5	7128.5	7122.4	7116.3	7109.4	7103.3	7213.7
45°	8900.9	8788.7	8719.2	8649.7	8579.3	8509.7	8399.3	8288.9	8177.7	8067.3	8163.8
47.5°	9989.1	9995.2	10121.3	10246.4	10372.5	10498.5	10309.9	10121.3	9932.6	9744.0	9619.7
50°	11442.5	11699.8	11730.2	11759.8	11790.2	11820.6	11500.7	11181.7	10861.8	10542.0	10411.6
52.5°	12459.5	12821.1	12774.1	12728.1	12681.1	12634.2	12449.0	12264.8	12079.6	11894.5	11610.2
55°	13085.3	13487.8	13452.1	13417.4	13381.7	13346.1	13211.4	13076.6	12941.9	12807.2	12495.1
57.5°	13447.8	13830.2	13840.7	13851.1	13861.5	13872.0	13836.3	13800.7	13765.1	13729.4	13323.5
60°	13570.3	13985.0	13989.3	13992.8	13997.1	14000.6	13944.1	13887.6	13830.2	13773.7	13508.6
62.5°	13192.2	13562.5	13579.0	13594.7	13611.2	13627.7	13588.6	13549.5	13510.4	13471.3	13274.8
65°	12622.9	12855.0	12859.3	12862.8	12867.1	12871.5	12772.4	12674.2	12575.1	12476.0	12429.1
67.5°	10932.3	10947.9	11040.0	11132.2	11224.3	11316.4	11324.3	11332.1	11340.8	11348.6	11280.8
70°	8827.9	8737.5	8837.4	8937.4	9037.3	9137.3	9179.9	9222.5	9265.9	9308.5	9339.8
72.5°	6873.8	6723.5	6797.3	6871.2	6946.0	7019.9	6956.4	6893.0	6829.5	6766.1	6966.8
75°	5218.8	5033.7	5024.1	5015.4	5005.9	4997.2	4965.0	4932.9	4899.8	4867.7	5055.4
77.5°	3996.7	3876.7	3882.8	3888.0	3894.1	3899.3	3866.3	3834.2	3801.1	3768.1	3840.2
80°	3312.6	3344.8	3345.6	3346.5	3347.4	3348.3	3317.0	3286.5	3255.2	3224.0	3171.8
82.5°	2655.5	2741.5	2740.7	2740.7	2739.8	2738.9	2737.2	2735.5	2732.8	2731.1	2645.9
85°	1902.7	1960.1	1901.0	1841.9	1782.8	1723.7	1767.1	1810.6	1854.9	1898.4	1862.8
87.5°	644.1	590.2	519.8	450.3	379.9	309.4	385.1	460.7	537.2	612.8	656.3
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: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702

CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8	1888.8
2.5°	2279.1	2270.4	2262.6	2207.8	2152.2	2097.4	2041.8	2142.6	2244.3	2345.2	2446.0
5°	2889.3	2871.1	2853.7	2849.3	2845.0	2839.8	2835.4	2886.7	2938.0	2988.4	3039.7
7.5°	3275.2	3261.3	3247.4	3210.9	3175.3	3138.8	3102.3	3133.6	3164.0	3195.3	3225.7
10°	3569.0	3538.6	3508.2	3429.1	3350.9	3271.8	3192.7	3169.2	3145.7	3122.3	3098.8
12.5°	3946.3	3871.5	3797.6	3708.1	3617.7	3528.2	3437.8	3425.6	3413.4	3402.1	3390.0
15°	4241.0	4217.5	4194.0	4122.7	4051.5	3980.2	3908.9	3813.3	3716.8	3621.2	3525.6
17.5°	4238.3	4201.0	4164.5	4260.1	4354.8	4450.4	4545.2	4443.5	4340.9	4239.2	4137.5
20°	4370.5	4348.7	4327.9	4504.3	4679.9	4856.4	5031.9	4976.3	4919.8	4864.2	4807.7
22.5°	4718.2	4801.6	4884.2	5035.4	5185.8	5337.0	5487.4	5550.9	5614.3	5677.8	5741.2
25°	5083.2	5218.8	5354.4	5579.6	5803.8	6028.9	6254.1	6299.3	6344.5	6389.7	6434.9
27.5°	4937.2	5075.4	5213.6	5384.0	5553.5	5723.9	5893.3	6091.5	6290.6	6488.8	6687.0
30°	4890.3	5043.2	5195.4	5429.2	5662.1	5896.0	6129.8	6402.7	6675.7	6947.7	7220.7
32.5°	4929.4	5144.9	5360.5	5676.9	5992.4	6308.8	6625.2	6912.1	7199.8	7486.6	7773.5
35°	5420.5	5603.0	5784.7	6138.5	6492.2	6846.0	7199.8	7536.2	7872.6	8208.1	8544.5
37.5°	5889.0	6061.1	6233.2	6594.8	6955.5	7317.1	7678.7	8209.8	8741.8	9272.9	9804.0
40°	6558.3	6705.2	6851.2	7160.7	7470.1	7779.6	8089.0	8729.6	9370.3	10010.9	10651.5
42.5°	7323.2	7433.6	7543.1	7863.9	8184.6	8505.4	8826.1	9523.2	10221.2	10918.3	11615.5
45°	8259.4	8355.9	8452.3	8673.1	8893.9	9115.6	9336.4	10055.2	10774.1	11492.9	12211.8
47.5°	9495.4	9371.1	9246.8	9355.5	9464.1	9572.8	9681.4	10392.5	11103.5	11813.6	12524.7
50°	10281.2	10150.8	10020.4	10030.0	10038.7	10048.2	10057.8	10721.0	11384.2	12046.6	12709.8
52.5°	11326.0	11040.9	10756.7	10754.1	10751.5	10748.0	10745.4	11323.4	11902.3	12480.3	13058.4
55°	12183.1	11871.0	11559.0	11498.1	11437.3	11375.6	11314.7	11886.7	12457.7	13029.7	13600.8
57.5°	12917.6	12510.8	12104.8	12009.2	11913.6	11818.0	11722.4	12338.7	12955.8	13572.1	14188.4
60°	13244.4	12979.3	12715.0	12597.7	12480.3	12363.0	12245.7	12770.7	13295.7	13819.8	14344.8
62.5°	13079.2	12882.8	12687.2	12714.2	12741.1	12768.1	12795.0	13094.9	13395.6	13695.5	13995.4
65°	12383.0	12336.0	12290.0	12507.3	12724.6	12941.9	13159.2	13163.6	13167.9	13172.2	13176.6
67.5°	11213.0	11145.2	11077.4	11529.4	11980.5	12432.5	12884.5	12669.8	12455.1	12241.3	12026.6
70°	9370.3	9401.5	9432.0	10047.4	10661.9	11277.3	11892.7	11581.6	11269.5	10958.3	10646.3
72.5°	7167.6	7369.3	7570.1	8208.1	8846.1	9484.1	10122.1	9766.6	9410.2	9054.7	8698.3
75°	5243.2	5430.9	5618.7	6248.9	6879.1	7510.1	8140.3	7717.9	7295.4	6873.8	6451.4
77.5°	3912.4	3985.4	4057.5	4581.7	5105.0	5629.1	6152.4	5728.2	5304.0	4880.7	4456.5
80°	3120.5	3068.4	3017.1	3307.4	3597.7	3888.0	4178.4	3877.6	3576.0	3275.2	2974.5
82.5°	2561.6	2476.4	2392.1	2499.9	2607.7	2716.3	2824.1	2583.3	2342.6	2101.8	1861.0
85°	1827.1	1791.5	1755.8	1787.1	1817.6	1848.8	1880.1	1645.4	1410.8	1176.9	942.2
87.5°	698.9	742.3	785.8	835.3	884.0	933.5	982.2	769.3	556.3	344.2	131.3
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: P368702
 CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368702
CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1888.8	1888.8
2.5°	2487.7	2529.4
5°	3038.8	3037.9
7.5°	3211.8	3197.0
10°	3060.5	3022.3
12.5°	3277.0	3163.1
15°	3412.6	3298.7
17.5°	3966.3	3794.2
20°	4603.4	4398.3
22.5°	5429.2	5117.1
25°	6062.0	5688.2
27.5°	6465.3	6242.8
30°	6966.0	6711.3
32.5°	7585.7	7397.1
35°	8372.4	8199.4
37.5°	9750.1	9695.3
40°	10586.3	10520.2
42.5°	11618.1	11619.8
45°	12250.9	12290.0
47.5°	12623.8	12722.0
50°	12921.0	13131.4
52.5°	13346.1	13633.8
55°	13983.2	14364.8
57.5°	14513.5	14838.6
60°	14513.5	14681.2
62.5°	13991.1	13985.8
65°	13095.8	13014.0
67.5°	11924.0	11821.5
70°	10486.3	10325.5
72.5°	8499.3	8299.4
75°	6177.6	5902.9
77.5°	4326.1	4194.9
80°	3037.9	3101.4
82.5°	1951.4	2041.8
85°	928.3	914.4
87.5°	109.5	87.8
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: P368702
CATALOG NUMBER: MSA-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)