

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: P368174

Luminaire Tested: **MSA-SA3D-830-U-SLR**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368174
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-SA3D-830-U-SLR
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) 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: 13550 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

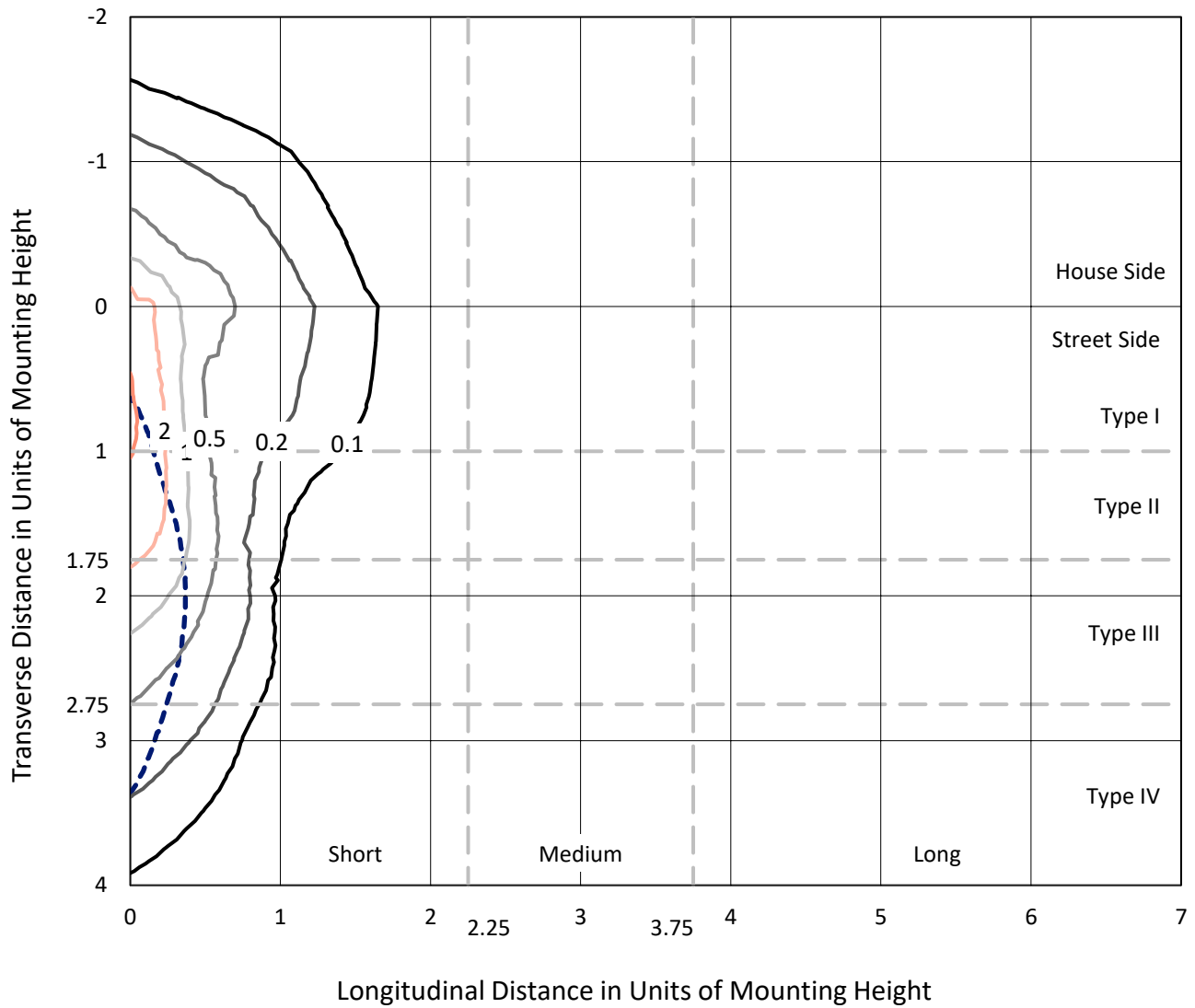
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

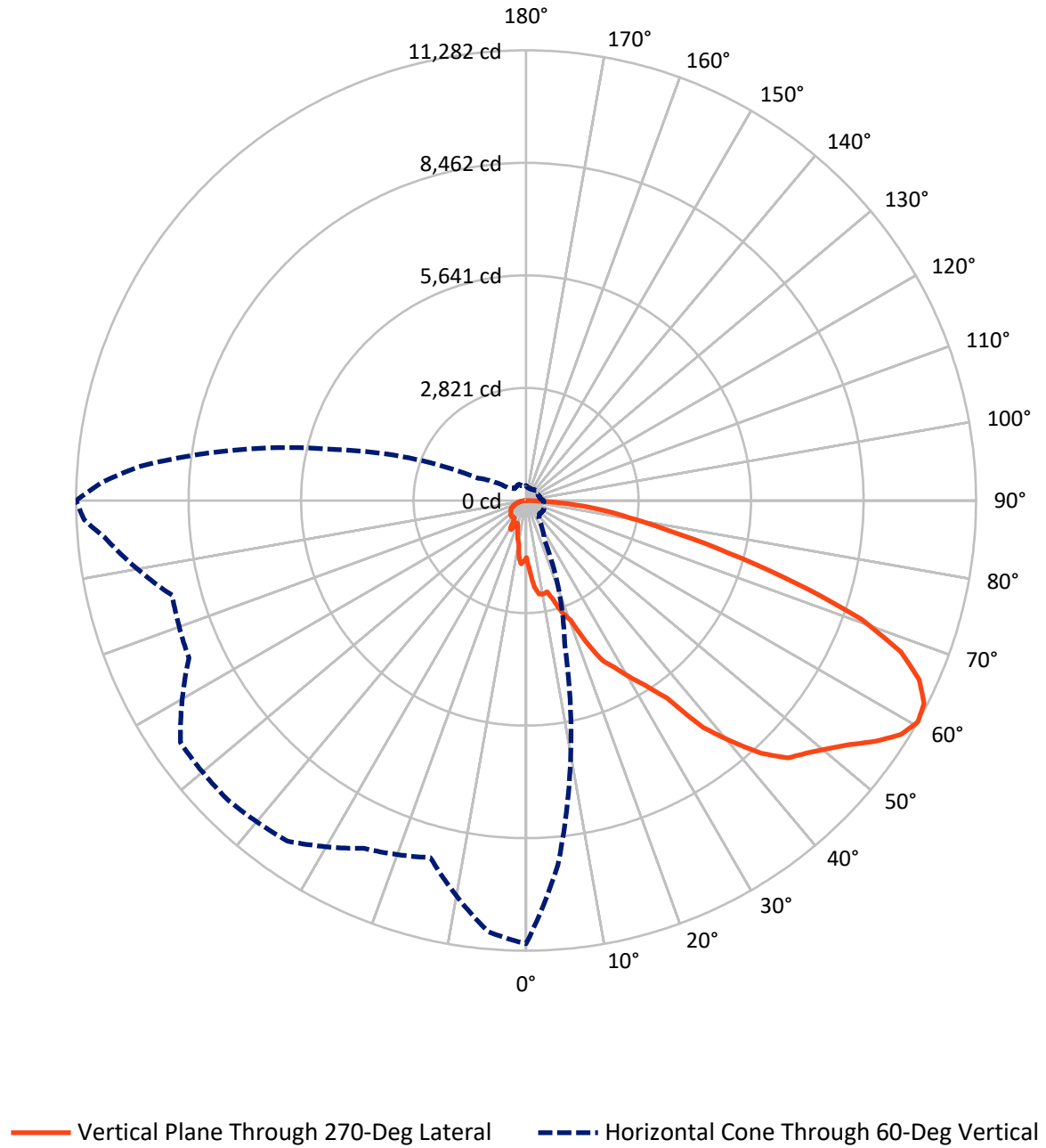
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2624.4	0.0	2624.4
	% Fixture	19.4	0.0	19.4
Street Side	Lumens	10925.7	0.0	10925.7
	% Fixture	80.6	0.0	80.6
Total	Lumens	13550.0	0.0	13550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	1.2
10°-20°	476.1	3.5
20°-30°	840.5	6.2
30°-40°	1309.0	9.7
40°-50°	2155.1	15.9
50°-60°	3076.1	22.7
60°-70°	3261.7	24.1
70°-80°	1801.6	13.3
80°-90°	466.1	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°	13550.0	100.0
0°-180°	13550.0	100.0

Coefficient of Utilization



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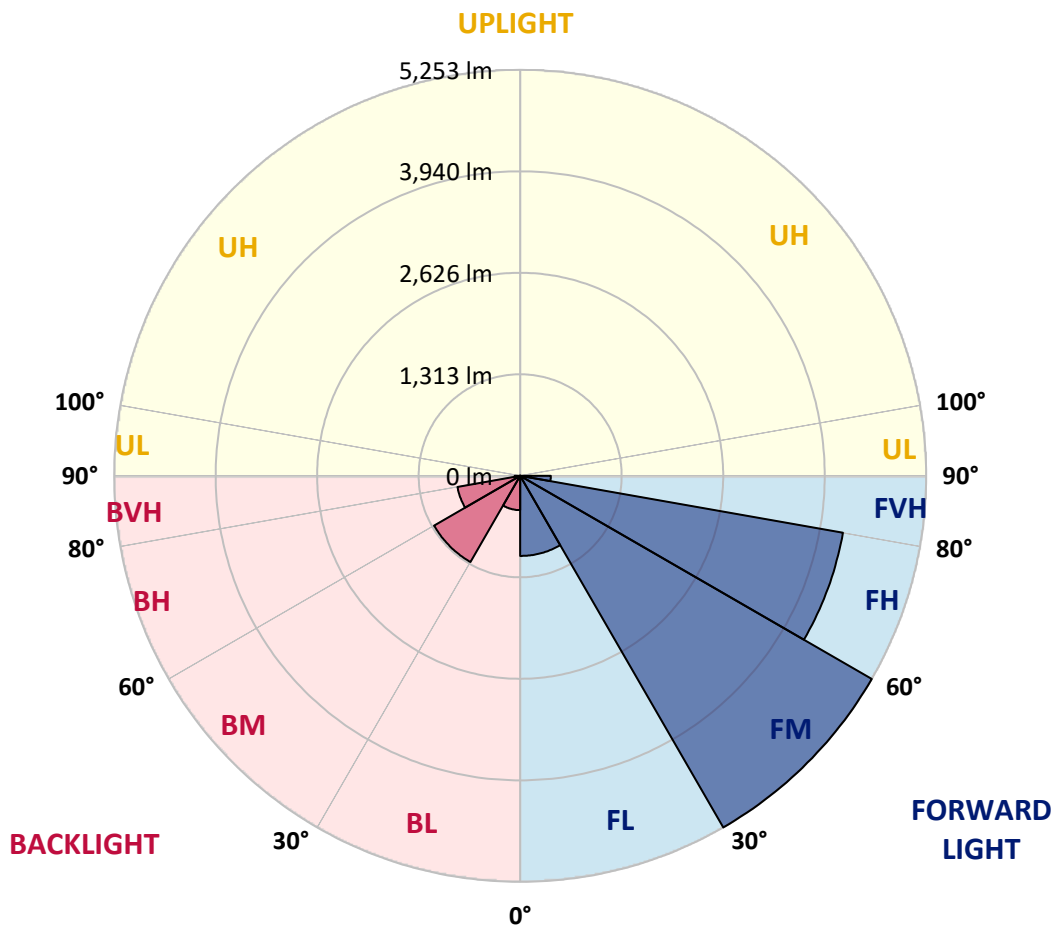
CATALOG NUMBER: MSA-SA3D-830-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.8	7.7			
FM (30°-60°)	5252.9	38.8			
FH (60°-80°)	4239.8	31.3			G2/5000
FVH (80°-90°)	396.2	2.9			G3/500
BL (0°-30°)	443.6	3.3	B1/500		
BM (30°-60°)	1287.3	9.5	B2/2500		
BH (60°-80°)	823.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	70.0	0.5			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°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1913.9	1925.7	1936.9	1914.6	1892.2	1869.2	1846.8	1813.3	1779.1	1745.5	1711.3
5°	2298.6	2255.2	2211.2	2193.4	2176.3	2158.6	2140.8	2124.4	2107.9	2090.8	2074.4
7.5°	2419.0	2357.2	2294.7	2268.4	2242.1	2215.1	2188.8	2129.6	2070.4	2010.6	1951.4
10°	2286.8	2222.4	2157.2	2131.6	2105.3	2079.6	2053.3	1981.0	1909.3	1836.9	1764.6
12.5°	2393.4	2327.6	2261.2	2179.6	2098.0	2015.8	1934.3	1894.2	1854.0	1813.3	1773.1
15°	2496.0	2407.2	2317.7	2236.2	2154.6	2072.4	1990.8	1910.6	1830.4	1750.1	1669.9
17.5°	2870.8	2722.9	2574.9	2427.6	2279.6	2132.2	1984.3	1891.5	1798.1	1705.4	1612.0
20°	3327.9	3122.1	2915.6	2691.9	2467.7	2244.1	2019.8	1902.7	1786.3	1669.2	1552.2
22.5°	3871.9	3612.1	3352.3	3070.1	2788.0	2505.2	2223.0	2053.3	1883.6	1713.3	1543.6
25°	4304.0	4054.0	3804.1	3446.3	3088.5	2730.8	2373.0	2180.3	1987.6	1794.2	1601.5
27.5°	4723.6	4325.7	3927.1	3517.4	3108.3	2698.5	2288.8	2110.5	1932.3	1754.1	1575.8
30°	5078.1	4762.4	4446.7	3912.0	3377.3	2841.9	2307.2	2088.2	1869.2	1650.2	1431.1
32.5°	5597.0	5146.5	4695.3	4137.6	3579.8	3022.1	2464.4	2184.2	1904.0	1623.8	1343.7
35°	6204.0	5735.8	5267.5	4577.6	3888.3	3198.4	2508.4	2211.8	1914.6	1617.9	1320.7
37.5°	7335.9	6510.5	5684.5	4931.4	4178.3	3424.6	2671.6	2326.9	1982.3	1637.0	1292.4
40°	7960.1	7197.2	6434.2	5495.7	4557.2	3618.0	2679.5	2326.9	1973.7	1621.2	1268.0
42.5°	8792.1	7827.2	6861.7	5846.9	4832.7	3817.9	2803.1	2412.4	2021.8	1630.4	1239.8
45°	9299.2	8223.8	7147.8	6063.3	4978.8	3894.2	2809.7	2413.1	2016.5	1619.9	1223.3
47.5°	9626.0	8593.4	7560.2	6392.8	5225.4	4057.3	2889.9	2469.0	2047.4	1626.5	1204.9
50°	9935.8	8913.1	7889.7	6677.6	5466.1	4254.0	3041.8	2582.1	2122.4	1662.0	1202.3
52.5°	10316.0	9374.1	8431.7	7131.4	5830.5	4530.2	3229.3	2728.8	2228.3	1727.8	1227.3
55°	10869.1	9941.1	9012.4	7616.8	6220.5	4824.9	3428.6	2872.8	2317.7	1762.0	1206.2
57.5°	11227.5	10286.4	9345.2	7921.9	6498.7	5074.8	3651.5	3035.9	2420.3	1804.1	1188.5
60°	11108.5	10137.7	9166.3	7809.5	6452.6	5095.8	3739.0	3074.1	2409.8	1744.9	1079.9
62.5°	10582.3	9550.4	8518.5	7303.0	6088.3	4872.9	3657.4	2981.3	2305.9	1629.8	953.7
65°	9847.0	8780.2	7712.8	6616.4	5520.0	4423.7	3327.3	2713.7	2099.4	1485.7	871.4
67.5°	8944.7	7832.5	6719.7	5748.9	4778.2	3806.7	2836.0	2323.0	1810.6	1297.6	784.6
70°	7812.8	6719.7	5626.6	4786.7	3946.8	3107.0	2267.1	1881.0	1495.6	1109.5	723.5
72.5°	6279.7	5336.5	4393.4	3732.4	3071.4	2410.5	1749.5	1481.1	1213.4	945.1	676.8
75°	4466.4	3912.0	3357.5	2843.2	2328.9	1813.9	1299.6	1126.0	952.3	778.7	605.1
77.5°	3174.0	2847.2	2520.3	2117.1	1714.0	1310.8	907.6	805.7	704.4	602.4	500.5
80°	2346.7	2073.7	1800.8	1496.9	1193.1	889.2	585.3	535.4	486.0	436.1	386.1
82.5°	1544.9	1421.9	1298.3	1057.6	816.9	576.1	335.4	317.0	298.6	280.2	261.8
85°	691.9	730.7	768.8	621.5	473.5	326.2	178.2	169.7	161.1	152.6	144.0
87.5°	66.4	98.0	129.6	111.2	92.1	73.7	54.6	53.9	53.9	53.3	52.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1720.5	1729.7	1738.9	1748.2	1738.3	1728.4	1717.9	1708.0	1695.5	1683.0	1669.9
5°	2046.7	2018.5	1990.8	1962.6	1920.5	1878.4	1835.6	1793.5	1788.3	1782.4	1777.1
7.5°	1899.4	1848.1	1796.2	1744.2	1678.4	1613.3	1547.6	1481.8	1462.1	1442.3	1422.6
10°	1729.7	1694.2	1659.4	1623.8	1583.1	1542.3	1500.9	1460.1	1406.2	1351.6	1297.6
12.5°	1715.3	1657.4	1598.9	1541.0	1516.0	1491.0	1466.0	1441.0	1393.7	1346.3	1298.3
15°	1623.2	1575.8	1529.1	1481.8	1445.6	1409.4	1373.3	1337.1	1298.9	1260.1	1222.0
17.5°	1558.1	1504.1	1450.2	1396.3	1354.9	1313.4	1271.3	1229.9	1183.9	1137.2	1091.1
20°	1490.3	1429.2	1367.3	1305.5	1252.9	1201.0	1148.3	1095.7	1045.1	995.1	944.5
22.5°	1462.7	1381.8	1300.9	1220.0	1164.8	1108.9	1053.6	997.7	951.0	904.3	857.6
25°	1504.8	1408.8	1312.1	1215.4	1141.1	1066.1	991.8	916.8	878.0	839.2	799.8
27.5°	1455.5	1334.5	1214.1	1093.1	1013.5	933.3	853.7	773.4	767.5	761.6	755.0
30°	1304.2	1177.3	1050.3	923.4	850.4	776.7	703.7	630.1	616.3	601.8	588.0
32.5°	1214.1	1084.5	955.0	825.4	760.3	694.5	629.4	563.6	547.9	532.1	516.3
35°	1179.9	1039.2	898.4	757.7	701.8	645.9	590.0	534.0	522.9	512.3	501.2
37.5°	1152.3	1012.9	872.8	732.7	678.7	624.8	570.2	516.3	507.7	499.2	490.6
40°	1126.0	984.6	842.5	700.4	652.4	605.1	557.1	509.1	503.8	498.5	492.6
42.5°	1102.3	964.8	826.7	689.3	646.5	604.4	561.7	518.9	513.7	508.4	503.1
45°	1089.1	955.0	820.8	686.6	655.7	624.8	593.2	562.3	549.8	537.3	524.2
47.5°	1079.3	953.7	828.0	702.4	670.2	638.0	605.7	573.5	562.3	551.1	539.3
50°	1081.3	960.9	839.9	718.9	680.1	640.6	601.8	562.3	561.0	559.7	558.4
52.5°	1099.0	971.4	843.2	714.9	672.8	630.7	588.0	545.9	554.4	562.3	570.9
55°	1073.4	940.5	807.0	674.1	634.0	594.6	554.4	514.3	525.5	536.0	547.2
57.5°	1044.4	900.4	756.3	612.3	582.1	551.8	520.9	490.6	502.5	515.0	526.8
60°	948.4	816.9	685.3	553.8	533.4	513.0	492.6	472.2	477.5	482.7	488.0
62.5°	843.2	732.0	621.5	510.4	494.6	478.1	462.4	445.9	445.9	446.6	446.6
65°	776.1	680.7	585.3	490.0	472.2	454.5	436.1	418.3	415.7	413.0	410.4
67.5°	709.0	634.0	558.4	482.7	457.1	432.1	406.5	380.8	377.5	374.9	371.6
70°	656.4	589.3	522.2	455.1	426.2	397.9	369.0	340.0	337.4	335.4	332.8
72.5°	613.6	551.1	488.0	424.9	394.6	363.7	333.5	302.5	300.6	298.6	296.0
75°	549.2	493.9	438.0	382.1	352.5	323.6	294.0	264.4	261.8	259.8	257.2
77.5°	454.5	407.8	361.7	315.0	292.0	269.7	246.6	223.6	222.3	221.0	219.0
80°	349.9	313.7	276.9	240.7	225.6	209.8	194.7	178.9	178.2	177.6	176.3
82.5°	240.1	218.4	196.7	174.9	163.8	151.9	140.7	128.9	129.6	130.2	130.9
85°	136.8	128.9	121.7	113.8	104.6	96.0	86.8	77.6	79.6	81.6	82.9
87.5°	50.0	47.4	44.7	42.1	37.5	33.5	28.9	24.3	25.7	27.6	28.9
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: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174

CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1657.4	1637.7	1617.9	1598.2	1578.5	1537.7	1497.6	1456.8	1416.0	1441.0	1466.7
5°	1771.2	1737.6	1703.4	1669.9	1635.7	1616.6	1597.5	1578.5	1559.4	1569.3	1579.8
7.5°	1402.9	1383.1	1362.7	1343.0	1322.6	1314.1	1306.2	1297.6	1289.1	1313.4	1337.8
10°	1243.0	1215.4	1187.8	1159.5	1131.9	1115.5	1099.0	1082.6	1066.1	1072.7	1079.3
12.5°	1250.9	1210.2	1169.4	1128.6	1087.8	1063.5	1039.2	1014.8	990.5	996.4	1002.3
15°	1183.2	1141.1	1099.0	1056.9	1014.8	986.5	957.6	929.3	900.4	890.5	880.0
17.5°	1044.4	998.4	952.3	906.3	860.3	841.2	822.1	803.0	784.0	773.4	762.9
20°	893.8	851.1	808.3	765.6	722.8	709.7	696.5	682.7	669.5	663.0	655.7
22.5°	810.9	784.6	757.7	731.4	704.4	689.3	674.8	659.7	644.5	637.3	629.4
25°	761.0	766.2	772.1	777.4	782.7	776.1	768.8	762.3	755.0	757.7	759.6
27.5°	749.1	760.3	772.1	783.3	794.5	800.4	806.3	812.3	818.2	820.1	822.1
30°	573.5	579.4	584.7	590.6	595.9	612.3	628.8	644.5	661.0	686.6	712.9
32.5°	500.5	498.5	496.6	493.9	492.0	495.9	499.8	503.1	507.1	516.3	526.2
35°	490.0	485.4	480.1	475.5	470.3	472.2	474.2	476.2	478.1	485.4	492.6
37.5°	482.1	480.1	478.8	476.8	474.9	479.5	483.4	488.0	492.0	497.9	503.8
40°	487.4	486.7	486.0	484.7	484.1	486.7	489.3	492.0	494.6	502.5	510.4
42.5°	497.9	497.9	497.2	497.2	496.6	499.2	501.2	503.8	505.8	510.4	515.0
45°	511.7	510.4	509.7	508.4	507.1	506.4	506.4	505.8	505.1	507.7	511.0
47.5°	528.1	523.5	518.3	513.7	508.4	507.1	505.1	503.8	501.8	503.1	504.5
50°	557.1	544.6	532.7	520.2	507.7	504.5	501.2	497.9	494.6	493.9	493.9
52.5°	578.8	560.4	541.9	523.5	505.1	499.2	493.3	487.4	481.4	480.1	479.5
55°	557.7	543.9	530.8	516.9	503.1	494.6	485.4	476.8	467.6	465.6	463.7
57.5°	538.7	530.1	521.6	513.0	504.5	495.9	486.7	478.1	468.9	464.3	459.7
60°	493.3	493.3	493.9	493.9	493.9	484.7	475.5	466.3	457.1	452.5	448.5
62.5°	446.6	453.8	460.4	467.6	474.2	461.7	448.5	436.1	422.9	419.6	417.0
65°	407.8	409.7	412.4	414.3	416.3	406.5	396.6	386.7	376.9	374.9	372.3
67.5°	368.3	367.7	367.0	365.7	365.0	359.1	352.5	346.6	340.0	337.4	334.8
70°	330.2	329.5	328.8	327.5	326.9	321.6	316.4	311.1	305.8	303.9	301.9
72.5°	294.0	293.3	292.0	291.4	290.0	285.4	281.5	276.9	272.3	269.7	267.0
75°	254.5	253.2	251.9	250.6	249.3	245.3	241.4	236.8	232.8	230.2	227.6
77.5°	217.7	215.7	213.8	211.1	209.1	205.9	201.9	198.6	194.7	191.4	188.8
80°	175.6	174.3	173.0	171.0	169.7	166.4	163.1	159.2	155.9	151.9	148.6
82.5°	131.5	130.9	129.6	128.9	127.6	124.3	121.0	117.7	114.4	110.5	106.5
85°	84.8	84.2	83.5	82.9	82.2	79.6	77.6	75.0	72.3	68.4	65.1
87.5°	30.3	28.9	28.3	27.0	25.7	25.0	23.7	23.0	21.7	19.7	17.8
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: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174

CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1491.7	1516.6	1517.3	1517.3	1529.1	1540.3	1517.3	1494.3	1470.6	1447.6	1424.6
5°	1589.6	1599.5	1596.9	1593.6	1579.1	1564.7	1549.5	1534.4	1519.3	1504.1	1504.8
7.5°	1362.1	1386.4	1406.2	1425.2	1406.8	1388.4	1378.5	1368.7	1358.8	1348.9	1347.6
10°	1085.2	1091.8	1099.7	1106.9	1095.7	1083.9	1103.6	1123.3	1142.4	1162.1	1140.4
12.5°	1008.2	1014.2	1000.4	985.9	981.3	976.7	972.1	966.8	962.2	956.9	954.3
15°	870.1	859.6	849.1	837.9	835.3	832.0	828.7	824.7	821.5	817.5	805.7
17.5°	752.4	741.9	724.1	705.7	698.5	690.6	688.6	686.6	684.0	682.0	670.8
20°	649.1	641.9	637.3	632.0	624.8	617.6	610.3	603.1	595.2	588.0	577.5
22.5°	622.2	614.3	608.4	601.8	600.5	599.2	586.0	572.2	559.0	545.2	539.3
25°	762.3	764.2	728.1	691.2	687.9	684.7	661.0	636.6	613.0	588.6	568.2
27.5°	823.4	825.4	824.1	822.8	812.3	801.1	761.0	720.2	680.1	639.3	610.3
30°	738.6	764.2	774.1	784.0	776.7	768.8	726.8	685.3	643.2	601.1	582.1
32.5°	535.4	544.6	561.0	576.8	585.3	593.2	580.1	566.9	553.8	540.6	537.3
35°	499.2	506.4	509.7	513.0	507.7	502.5	492.6	482.7	472.2	462.4	460.4
37.5°	509.1	515.0	521.6	528.1	513.7	498.5	487.4	476.8	465.6	454.5	445.3
40°	518.3	526.2	530.1	534.0	519.6	505.1	491.3	478.1	464.3	450.5	441.3
42.5°	519.6	524.2	531.4	538.7	518.3	497.2	484.7	471.6	459.1	445.9	436.7
45°	513.7	516.3	522.9	529.4	505.8	481.4	470.3	458.4	447.2	435.4	427.5
47.5°	505.1	506.4	511.7	516.3	491.3	465.6	455.1	444.6	433.4	422.9	415.0
50°	493.3	492.6	496.6	499.8	474.2	448.5	438.0	428.2	417.6	407.1	400.5
52.5°	478.1	476.8	480.8	484.1	457.1	430.1	420.9	412.4	403.2	394.0	388.7
55°	461.0	459.1	462.4	465.6	439.3	412.4	404.5	395.9	388.0	379.5	374.9
57.5°	454.5	449.9	451.8	453.8	424.2	394.6	386.7	378.8	370.9	363.0	359.8
60°	443.9	439.3	441.3	442.6	411.1	378.8	371.6	363.7	356.5	348.6	345.3
62.5°	413.7	410.4	413.0	415.7	387.4	358.4	351.9	345.9	339.4	332.8	328.2
65°	370.3	367.7	372.9	378.2	353.8	329.5	325.6	321.6	317.0	313.1	308.5
67.5°	332.1	329.5	334.8	340.0	322.3	304.5	300.6	296.6	292.7	288.7	286.1
70°	299.9	297.9	302.5	307.1	292.0	276.9	272.9	269.7	265.7	261.8	259.8
72.5°	263.7	261.1	267.0	272.3	259.8	246.6	243.3	239.4	236.1	232.2	230.9
75°	224.9	222.3	227.6	232.2	223.6	214.4	211.1	207.8	204.5	201.3	200.6
77.5°	185.5	182.2	187.4	192.0	186.8	180.9	178.2	174.9	172.3	169.0	169.0
80°	144.7	140.7	144.7	148.0	146.0	144.0	142.1	139.4	137.5	134.8	135.5
82.5°	102.6	98.7	100.6	102.6	103.9	105.2	105.2	105.2	105.2	105.2	105.2
85°	61.2	57.2	57.9	58.5	60.5	62.5	63.1	63.8	64.5	65.1	65.8
87.5°	15.8	13.8	12.5	10.5	12.5	13.8	15.1	15.8	17.1	17.8	17.8
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: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174
 CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1401.5	1377.9	1354.9	1369.3	1383.1	1397.6	1411.4	1412.1	1412.1	1412.7	1412.7
5°	1506.1	1506.8	1507.4	1493.6	1480.5	1466.7	1452.8	1445.6	1438.4	1430.5	1423.3
7.5°	1345.6	1344.3	1342.4	1329.2	1316.0	1302.9	1289.7	1258.2	1225.9	1194.4	1162.1
10°	1118.1	1096.4	1074.0	1068.8	1064.2	1058.9	1053.6	1045.1	1037.2	1028.6	1020.1
12.5°	951.7	949.1	946.4	932.6	918.8	904.3	890.5	890.5	890.5	890.5	890.5
15°	793.2	781.3	768.8	762.3	755.0	748.5	741.2	737.9	734.6	731.4	728.1
17.5°	659.0	647.8	636.0	634.7	633.4	632.0	630.7	627.4	624.2	620.9	617.6
20°	566.9	556.4	545.9	549.8	553.8	557.1	561.0	557.7	554.4	550.5	547.2
22.5°	532.7	526.8	520.2	516.9	513.7	509.7	506.4	506.4	507.1	507.1	507.1
25°	548.5	528.1	507.7	497.9	488.0	477.5	467.6	463.7	460.4	456.4	452.5
27.5°	581.4	551.8	522.9	505.8	488.7	471.6	454.5	447.2	439.3	432.1	424.2
30°	562.3	543.3	523.5	503.8	484.1	464.3	444.6	435.4	426.2	416.3	407.1
32.5°	534.0	530.1	526.8	508.4	490.0	470.9	452.5	448.5	445.3	441.3	437.4
35°	457.8	455.8	453.2	448.5	443.9	439.3	434.7	429.5	424.2	419.0	413.7
37.5°	436.7	427.5	418.3	416.3	414.3	412.4	410.4	408.4	406.5	403.8	401.9
40°	432.1	422.9	413.7	410.4	407.1	403.2	399.9	400.5	401.9	402.5	403.2
42.5°	426.8	417.6	407.8	405.1	402.5	399.9	397.2	397.9	399.2	399.9	400.5
45°	420.3	412.4	404.5	399.9	395.9	391.3	386.7	390.7	394.6	397.9	401.9
47.5°	407.1	398.6	390.7	388.0	385.4	382.1	379.5	383.4	387.4	390.7	394.6
50°	393.3	386.7	379.5	378.8	378.2	376.9	376.2	378.8	381.5	384.1	386.7
52.5°	382.8	377.5	371.6	371.6	370.9	370.9	370.3	372.9	375.5	377.5	380.1
55°	370.9	366.3	361.7	362.4	363.7	364.4	365.0	367.7	370.9	373.6	376.2
57.5°	355.8	352.5	348.6	351.2	353.2	355.8	357.8	359.8	362.4	364.4	366.3
60°	341.3	338.1	334.1	336.7	340.0	342.7	345.3	347.3	349.2	351.2	353.2
62.5°	323.6	318.3	313.7	317.7	321.0	324.9	328.2	329.5	331.5	332.8	334.1
65°	304.5	299.9	295.3	297.9	300.6	302.5	305.2	307.1	309.1	311.1	313.1
67.5°	282.8	280.2	276.9	278.9	280.8	282.8	284.8	285.4	285.4	286.1	286.1
70°	257.2	255.2	252.6	253.9	255.8	257.2	258.5	258.5	258.5	257.8	257.8
72.5°	230.2	228.9	227.6	228.2	229.5	230.2	230.9	230.2	229.5	228.9	228.2
75°	199.9	199.3	198.6	199.3	200.6	201.3	201.9	201.3	199.9	199.3	198.0
77.5°	169.7	169.7	169.7	169.7	170.3	170.3	170.3	169.0	167.7	166.4	165.1
80°	136.1	136.8	137.5	137.5	137.5	137.5	137.5	136.1	134.8	132.9	131.5
82.5°	105.2	105.2	105.2	105.2	105.9	105.9	105.9	102.6	100.0	96.7	93.4
85°	65.8	66.4	66.4	67.1	67.7	67.7	68.4	63.8	59.9	55.2	50.6
87.5°	17.8	17.8	17.8	17.8	17.8	17.1	17.1	13.2	8.6	4.6	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: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174
 CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1416.7	1420.6	1423.9	1427.9	1428.5	1429.2	1429.2	1429.8	1416.0	1402.2	1387.7
5°	1433.1	1442.3	1452.2	1461.4	1459.4	1457.5	1455.5	1453.5	1449.6	1446.3	1442.3
7.5°	1154.9	1148.3	1141.1	1133.9	1139.8	1145.7	1151.6	1157.5	1160.2	1162.8	1164.8
10°	1003.6	987.2	970.8	954.3	945.1	935.2	926.0	916.2	914.9	914.2	912.9
12.5°	873.4	855.7	838.6	820.8	815.5	809.6	804.4	798.4	803.7	809.0	813.6
15°	720.8	714.3	707.0	699.8	705.7	711.6	717.5	723.5	728.7	733.3	738.6
17.5°	614.3	611.7	608.4	605.1	610.3	616.3	621.5	626.8	638.6	650.5	662.3
20°	544.6	542.6	540.0	537.3	535.4	532.7	530.8	528.1	545.2	561.7	578.8
22.5°	503.1	499.2	495.2	491.3	492.0	492.6	492.6	493.3	507.1	521.6	535.4
25°	451.2	449.9	448.5	447.2	451.2	455.1	458.4	462.4	474.9	487.4	499.2
27.5°	424.9	425.5	426.2	426.8	432.1	438.0	443.3	448.5	457.1	465.6	474.2
30°	410.4	414.3	417.6	420.9	422.9	424.9	426.8	428.8	437.4	445.3	453.8
32.5°	432.1	426.8	420.9	415.7	418.3	421.6	424.2	426.8	434.7	442.6	450.5
35°	411.7	409.1	407.1	404.5	407.8	411.1	413.7	417.0	424.2	430.8	438.0
37.5°	401.2	400.5	399.9	399.2	401.2	403.2	404.5	406.5	413.0	419.6	425.5
40°	400.5	397.2	394.6	391.3	393.3	395.3	396.6	398.6	406.5	414.3	422.2
42.5°	396.6	392.6	388.0	384.1	386.1	388.7	390.7	392.6	401.2	409.1	417.6
45°	395.9	390.0	383.4	377.5	380.1	382.8	385.4	388.0	394.6	401.2	407.1
47.5°	388.7	382.8	376.9	370.9	372.3	373.6	374.2	375.5	381.5	386.7	392.6
50°	382.8	378.2	374.2	369.6	367.7	366.3	364.4	362.4	367.0	371.6	376.2
52.5°	375.5	370.9	365.7	361.1	358.4	355.8	353.2	350.6	354.5	357.8	361.7
55°	370.9	365.0	359.8	353.8	350.6	347.3	344.0	340.7	343.3	345.3	347.9
57.5°	361.1	355.8	349.9	344.6	340.7	336.7	332.1	328.2	329.5	330.8	332.1
60°	347.9	342.0	336.7	330.8	326.2	321.6	316.4	311.7	312.4	313.7	314.4
62.5°	328.8	323.6	317.7	312.4	307.1	302.5	297.3	292.0	293.3	294.0	295.3
65°	307.8	301.9	296.6	290.7	286.1	281.5	276.2	271.6	272.9	274.3	274.9
67.5°	282.2	277.5	273.6	269.0	265.1	260.4	256.5	251.9	252.6	253.2	253.9
70°	254.5	250.6	247.3	243.3	240.1	236.8	233.5	230.2	230.2	230.9	230.9
72.5°	224.9	221.6	218.4	215.1	211.8	209.1	205.9	202.6	203.9	205.2	205.9
75°	194.7	192.0	188.8	185.5	182.8	180.2	176.9	174.3	175.6	176.9	177.6
77.5°	163.1	161.1	158.5	156.5	153.9	151.3	148.0	145.4	146.7	148.0	148.6
80°	130.2	128.9	126.9	125.6	123.0	120.4	117.7	115.1	115.8	115.8	116.4
82.5°	94.1	94.7	94.7	95.4	93.4	90.8	88.8	86.2	86.2	86.2	85.5
85°	52.6	55.2	57.2	59.2	57.2	55.2	53.3	51.3	50.6	50.6	50.0
87.5°	2.0	3.3	5.3	6.6	5.9	5.3	3.9	3.3	3.9	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174
 CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1373.9	1385.1	1396.3	1407.5	1418.6	1435.7	1452.8	1470.6	1488.4	1478.5	1468.0
5°	1438.4	1445.0	1452.2	1458.8	1465.3	1484.4	1502.8	1525.9	1548.2	1545.6	1542.3
7.5°	1167.4	1176.6	1185.8	1194.4	1203.6	1232.5	1261.5	1285.8	1310.1	1306.8	1302.9
10°	911.6	930.6	950.4	969.4	988.5	1012.2	1035.2	1055.6	1076.0	1110.2	1143.7
12.5°	818.8	848.4	878.0	907.6	937.2	954.3	970.8	997.1	1023.4	1041.8	1060.9
15°	743.2	770.8	798.4	826.1	853.7	855.0	856.3	883.9	911.6	927.4	942.5
17.5°	674.1	689.3	704.4	718.9	734.0	728.7	723.5	736.6	749.1	755.7	762.9
20°	595.2	605.7	616.3	626.8	637.3	644.5	651.1	659.0	666.2	659.7	652.4
22.5°	549.2	565.0	581.4	597.2	613.0	617.6	621.5	616.9	612.3	610.3	608.4
25°	511.7	530.8	550.5	569.6	588.6	597.8	607.1	611.0	614.3	607.1	599.8
27.5°	482.7	505.8	528.1	551.1	573.5	590.0	606.4	611.0	614.9	609.7	603.8
30°	461.7	486.7	511.7	536.7	561.7	586.7	611.0	632.7	653.7	651.8	649.8
32.5°	458.4	475.5	492.6	509.7	526.8	542.6	557.7	559.0	559.7	554.4	548.5
35°	444.6	455.8	467.0	478.1	489.3	499.2	508.4	507.1	505.8	500.5	495.2
37.5°	432.1	443.3	455.1	466.3	477.5	494.6	511.0	507.7	503.8	498.5	493.3
40°	430.1	442.6	455.1	467.0	479.5	495.2	511.0	507.7	504.5	497.9	491.3
42.5°	425.5	438.0	449.9	462.4	474.2	493.3	511.7	505.8	499.2	493.9	488.7
45°	413.7	424.9	436.1	447.2	458.4	478.8	499.2	492.0	484.7	482.7	480.1
47.5°	397.9	409.1	420.3	431.4	442.6	463.0	482.7	476.8	470.3	469.6	468.3
50°	380.8	391.3	402.5	413.0	423.6	443.9	463.7	458.4	453.2	453.8	453.8
52.5°	365.0	374.9	384.1	394.0	403.2	423.6	443.3	439.3	434.7	436.1	436.7
55°	349.9	357.8	365.7	373.6	381.5	401.2	420.9	415.0	409.1	411.1	413.0
57.5°	333.5	340.0	346.6	352.5	359.1	378.8	397.9	391.3	384.1	387.4	390.0
60°	315.0	321.0	326.9	332.1	338.1	355.8	372.9	367.0	360.4	365.0	369.0
62.5°	296.0	300.6	305.2	309.8	314.4	330.8	347.3	342.7	338.1	343.3	347.9
65°	276.2	279.5	283.5	286.8	290.0	305.8	321.0	317.7	314.4	319.0	323.6
67.5°	254.5	257.2	260.4	263.1	265.7	280.2	294.6	291.4	287.4	291.4	294.6
70°	230.9	233.5	235.5	238.1	240.1	253.2	266.4	261.8	256.5	260.4	263.7
72.5°	207.2	208.5	210.5	211.8	213.1	223.0	232.8	228.9	224.9	228.9	232.2
75°	178.9	180.2	181.5	182.8	184.2	192.7	200.6	196.0	190.7	194.7	198.6
77.5°	150.0	150.6	151.9	152.6	153.2	159.2	164.4	159.8	154.6	159.2	163.8
80°	116.4	117.1	117.7	117.7	118.4	120.4	122.3	119.0	115.1	121.0	126.9
82.5°	85.5	84.8	84.8	84.2	83.5	83.5	82.9	80.9	78.3	83.5	88.8
85°	49.3	48.7	47.4	46.7	45.4	43.4	41.4	40.8	40.1	44.7	49.3
87.5°	5.3	4.6	3.3	2.6	1.3	0.7	0.0	0.0	0.0	2.6	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174

CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1458.1	1447.6	1437.7	1427.9	1418.0	1408.1	1426.5	1445.0	1463.4	1481.8	1498.2
5°	1539.7	1536.4	1527.8	1519.9	1511.4	1502.8	1507.4	1512.7	1517.3	1521.9	1531.8
7.5°	1299.6	1295.7	1314.1	1331.8	1350.2	1368.0	1372.6	1376.6	1381.2	1385.1	1382.5
10°	1177.9	1211.5	1220.0	1227.9	1236.5	1244.4	1257.5	1270.7	1283.2	1296.3	1303.6
12.5°	1079.3	1097.7	1127.9	1158.9	1189.1	1219.4	1239.1	1258.8	1278.6	1298.3	1339.1
15°	958.3	973.4	996.4	1019.4	1042.4	1065.5	1093.7	1122.7	1151.0	1179.2	1224.0
17.5°	769.5	776.1	793.2	810.3	826.7	843.8	882.0	919.5	957.6	995.1	1046.4
20°	645.9	638.6	638.6	639.3	639.3	639.3	677.4	714.9	753.1	790.5	858.3
22.5°	605.7	603.8	596.5	588.6	581.4	573.5	593.2	613.6	633.4	653.1	708.3
25°	591.9	584.7	575.5	566.3	557.1	547.9	560.4	572.9	585.3	597.8	641.3
27.5°	598.5	592.6	597.2	601.1	605.7	609.7	613.6	617.6	621.5	625.5	640.6
30°	647.8	645.9	653.1	659.7	666.9	673.5	664.3	655.7	646.5	637.3	642.6
32.5°	543.3	537.3	534.7	532.1	529.4	526.8	526.2	525.5	524.2	523.5	535.4
35°	490.0	484.7	480.8	476.8	472.2	468.3	470.3	471.6	473.5	474.9	488.0
37.5°	488.0	482.7	478.1	473.5	468.3	463.7	465.6	468.3	470.3	472.2	482.1
40°	484.7	478.1	475.5	472.9	470.3	467.6	468.9	470.3	470.9	472.2	479.5
42.5°	482.7	477.5	476.2	474.9	473.5	472.2	473.5	474.9	475.5	476.8	485.4
45°	478.1	475.5	476.8	478.1	479.5	480.8	480.8	480.8	480.8	480.8	490.0
47.5°	467.6	466.3	470.3	474.2	478.1	482.1	488.7	495.2	501.2	507.7	509.7
50°	454.5	454.5	461.0	467.6	473.5	480.1	495.9	511.0	526.8	541.9	532.1
52.5°	438.0	438.7	448.5	457.8	467.6	476.8	491.3	505.8	519.6	534.0	519.6
55°	414.3	416.3	428.8	440.7	453.2	465.0	476.2	487.4	498.5	509.7	494.6
57.5°	393.3	395.9	409.1	421.6	434.7	447.2	453.8	461.0	467.6	474.2	464.3
60°	373.6	377.5	394.6	411.7	428.2	445.3	440.0	434.7	428.8	423.6	422.9
62.5°	353.2	357.8	373.6	389.4	404.5	420.3	412.4	404.5	395.9	388.0	391.3
65°	327.5	332.1	339.4	346.6	353.2	360.4	359.8	359.8	359.1	358.4	365.0
67.5°	298.6	301.9	306.5	310.4	315.0	319.0	321.6	324.9	327.5	330.2	338.1
70°	267.7	271.0	275.6	279.5	284.1	288.1	291.4	294.6	297.3	300.6	308.5
72.5°	236.1	239.4	244.0	248.6	252.6	257.2	259.8	262.4	264.4	267.0	273.6
75°	202.6	206.5	211.1	215.1	219.7	223.6	225.6	227.6	229.5	231.5	237.4
77.5°	168.4	173.0	177.6	182.2	186.8	191.4	192.0	192.7	193.4	194.0	199.3
80°	132.2	138.1	142.7	147.3	151.9	156.5	156.5	156.5	156.5	156.5	159.2
82.5°	94.1	99.3	104.6	109.2	114.4	119.0	119.0	118.4	118.4	117.7	117.7
85°	53.9	58.5	61.8	65.8	69.1	72.3	72.3	72.3	71.7	71.7	70.4
87.5°	8.6	11.2	12.5	14.5	15.8	17.1	16.4	16.4	15.8	15.1	13.2
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: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174

CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1514.7	1531.1	1547.6	1544.9	1542.3	1539.7	1537.0	1546.9	1556.1	1566.0	1575.2
5°	1541.0	1550.8	1560.1	1567.3	1574.5	1581.8	1589.0	1622.5	1655.4	1689.0	1721.8
7.5°	1379.8	1376.6	1373.9	1404.8	1436.4	1467.3	1498.2	1541.0	1583.7	1626.5	1669.2
10°	1310.8	1318.0	1325.3	1337.8	1350.9	1363.4	1375.9	1418.0	1460.1	1502.2	1544.3
12.5°	1379.2	1420.0	1460.1	1469.9	1480.5	1490.3	1500.2	1508.8	1517.3	1525.2	1533.7
15°	1268.7	1313.4	1358.1	1383.8	1409.4	1434.4	1460.1	1524.5	1588.3	1652.8	1716.6
17.5°	1097.0	1148.3	1199.0	1262.1	1325.3	1388.4	1451.5	1510.7	1569.9	1628.5	1687.6
20°	926.0	993.1	1060.9	1129.9	1198.3	1267.4	1335.8	1393.7	1451.5	1508.8	1566.6
22.5°	762.9	818.2	872.8	956.9	1040.5	1124.7	1208.2	1316.0	1423.3	1531.1	1638.3
25°	684.0	727.4	770.2	857.0	943.8	1030.0	1116.8	1256.9	1396.3	1536.4	1675.8
27.5°	656.4	671.5	686.6	765.6	843.8	922.7	1001.0	1152.3	1303.6	1454.2	1605.4
30°	647.8	653.1	658.4	720.2	782.0	843.8	905.6	1054.9	1204.9	1354.2	1503.5
32.5°	546.5	558.4	569.6	630.1	689.9	750.4	810.3	960.9	1110.8	1261.5	1411.4
35°	501.2	514.3	527.5	586.7	645.9	704.4	763.6	922.1	1081.3	1239.8	1398.3
37.5°	492.0	501.8	511.7	578.8	645.9	712.9	780.0	940.5	1101.0	1261.5	1421.9
40°	487.4	494.6	501.8	566.9	632.7	697.8	762.9	931.3	1099.0	1267.4	1435.1
42.5°	493.3	501.8	509.7	568.9	627.4	686.6	745.2	919.5	1093.1	1267.4	1441.0
45°	498.5	507.7	516.3	571.5	626.8	682.0	737.3	923.4	1108.9	1295.0	1480.5
47.5°	511.0	513.0	514.3	562.3	609.7	657.7	705.0	894.5	1083.9	1272.6	1462.1
50°	521.6	511.7	501.2	551.1	600.5	650.5	699.8	879.3	1058.9	1237.8	1417.3
52.5°	505.1	490.0	475.5	529.4	583.4	636.6	690.6	870.1	1050.3	1229.9	1409.4
55°	480.1	465.0	449.9	504.5	559.0	613.6	668.2	847.1	1026.7	1205.6	1384.4
57.5°	455.1	445.3	435.4	480.1	525.5	570.2	614.9	809.0	1002.3	1196.3	1389.7
60°	422.2	420.9	420.3	455.1	490.6	525.5	560.4	750.4	939.8	1129.9	1319.3
62.5°	394.0	397.2	399.9	428.2	456.4	484.1	512.3	695.8	880.0	1063.5	1247.0
65°	372.3	378.8	385.4	417.6	449.9	481.4	513.7	667.6	821.5	975.4	1129.3
67.5°	345.9	353.8	361.7	403.8	445.9	488.0	530.1	657.0	784.0	910.9	1037.8
70°	315.7	323.6	330.8	384.8	438.0	492.0	545.2	657.7	770.8	883.3	995.8
72.5°	280.2	286.8	293.3	351.2	409.1	467.0	524.8	620.2	715.6	810.3	905.6
75°	244.0	249.9	255.8	305.8	355.8	405.8	455.8	529.4	602.4	676.1	749.1
77.5°	203.9	209.1	213.8	247.3	280.8	314.4	347.9	404.5	460.4	516.9	572.9
80°	161.8	164.4	167.1	186.8	205.9	225.6	244.7	282.2	319.6	356.5	394.0
82.5°	118.4	118.4	118.4	130.9	144.0	156.5	169.0	188.1	206.5	225.6	244.0
85°	69.1	67.1	65.8	74.3	82.9	91.4	100.0	107.9	115.8	123.6	131.5
87.5°	11.2	8.6	6.6	11.8	17.1	22.4	27.6	30.3	33.5	36.2	38.8
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: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174

CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1552.8	1531.1	1508.8	1486.4	1519.3	1552.2	1585.0	1617.9	1705.4	1757.4	1760.7
5°	1749.5	1777.1	1804.7	1832.3	1860.0	1887.6	1914.6	1942.2	2084.2	2171.7	2188.2
7.5°	1714.6	1760.7	1806.0	1851.4	1929.7	2007.9	2086.2	2164.5	2284.8	2371.6	2428.9
10°	1600.8	1657.4	1714.0	1770.5	1863.3	1956.6	2049.4	2142.1	2269.7	2384.1	2438.7
12.5°	1623.8	1714.0	1803.4	1893.5	1973.7	2054.6	2134.9	2215.1	2303.2	2346.7	2446.0
15°	1779.1	1841.5	1904.0	1966.5	2087.5	2207.9	2328.9	2449.3	2499.2	2598.6	2688.0
17.5°	1802.7	1917.2	2032.3	2146.7	2294.7	2442.7	2590.7	2738.6	2831.4	2959.6	3067.5
20°	1729.1	1890.9	2053.3	2215.1	2405.8	2597.2	2788.0	2978.7	3096.4	3204.3	3371.3
22.5°	1817.2	1996.1	2174.3	2353.2	2606.4	2859.0	3112.2	3364.8	3610.7	3851.5	3964.6
25°	1914.6	2154.0	2392.7	2631.4	2947.8	3263.5	3579.8	3895.5	4211.9	4437.5	4567.7
27.5°	1846.2	2086.2	2326.9	2567.0	2958.3	3350.3	3741.6	4133.0	4471.7	4743.3	4855.1
30°	1798.1	2092.8	2387.4	2682.1	3141.2	3600.2	4059.3	4518.4	4831.4	5134.6	5299.1
32.5°	1789.6	2167.8	2545.3	2923.5	3458.2	3992.2	4526.9	5061.0	5268.8	5537.8	5759.4
35°	1813.3	2228.9	2643.9	3058.9	3671.9	4284.9	4897.2	5510.2	5805.5	6071.8	6265.9
37.5°	1885.6	2349.3	2812.3	3276.0	4014.6	4753.8	5492.4	6231.0	6726.2	7213.6	7300.4
40°	1926.4	2418.3	2909.6	3400.9	4259.9	5118.8	5977.8	6836.7	7406.3	7941.0	7977.2
42.5°	1974.4	2507.8	3040.5	3573.9	4526.3	5479.3	6431.6	7383.9	8089.0	8663.8	8680.9
45°	2029.6	2578.2	3127.3	3675.9	4670.3	5664.1	6658.5	7652.3	8504.7	9203.1	9032.8
47.5°	2051.4	2641.3	3230.6	3819.9	4880.1	5939.6	6999.9	8059.4	8824.3	9459.6	9296.5
50°	2059.9	2703.1	3345.7	3988.3	5086.6	6185.6	7284.0	8382.3	9160.4	9779.9	9530.0
52.5°	2113.2	2816.9	3520.6	4224.4	5368.8	6513.2	7657.5	8801.9	9567.5	10162.7	9852.3
55°	2184.9	2985.3	3785.0	4585.5	5770.0	6953.8	8138.3	9322.2	10090.4	10644.1	10259.4
57.5°	2251.3	3113.5	3975.1	4836.7	6064.0	7291.9	8519.1	9746.4	10524.4	11072.3	10699.4
60°	2219.1	3118.8	4018.5	4918.2	6124.5	7330.0	8536.2	9741.8	10625.1	11282.1	11091.4
62.5°	2121.7	2996.5	3870.5	4745.3	5890.3	7034.7	8179.8	9324.1	10358.0	11200.6	11192.0
65°	1934.3	2739.3	3543.7	4348.7	5408.2	6468.4	7528.0	8587.5	9806.2	10829.6	10896.0
67.5°	1706.1	2374.3	3042.5	3710.7	4708.4	5706.2	6703.9	7701.6	9004.5	10133.8	10191.0
70°	1485.1	1975.1	2464.4	2953.7	3829.8	4705.8	5581.2	6457.3	7773.3	8915.7	8968.3
72.5°	1225.9	1546.2	1865.9	2186.2	2895.8	3605.5	4314.5	5024.1	6179.7	7058.4	7355.0
75°	939.2	1129.3	1319.3	1509.4	2083.6	2657.7	3231.3	3805.4	4573.6	5222.1	5556.2
77.5°	671.5	770.2	868.8	967.5	1455.5	1943.5	2430.8	2918.9	3322.7	3690.3	3915.9
80°	440.7	486.7	533.4	579.4	985.2	1391.0	1796.2	2202.0	2447.9	2645.3	2759.0
82.5°	267.0	290.0	312.4	335.4	664.3	993.1	1321.3	1650.2	1790.9	1885.0	1986.2
85°	144.0	156.5	169.0	181.5	392.6	603.1	814.2	1024.7	1038.5	1049.7	1200.3
87.5°	42.1	46.0	49.3	52.6	86.8	121.7	155.9	190.1	118.4	73.7	151.3
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: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174

CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1741.6	1733.0	1724.5	1715.3	1706.7	1670.5	1635.0	1598.9	1562.7	1597.5	1631.7
5°	2169.1	2195.4	2221.0	2247.3	2273.7	2275.6	2276.9	2278.9	2280.2	2286.8	2293.4
7.5°	2476.9	2523.6	2569.6	2616.3	2663.0	2699.2	2735.4	2772.2	2808.4	2775.5	2742.6
10°	2503.2	2601.8	2700.5	2799.2	2897.8	2915.6	2932.7	2950.4	2968.2	2991.9	3014.9
12.5°	2529.5	2649.9	2769.6	2889.9	3010.3	3062.9	3114.8	3167.5	3219.4	3245.1	3270.1
15°	2807.7	2878.7	2949.1	3020.1	3090.5	3126.7	3162.2	3198.4	3234.5	3256.2	3277.3
17.5°	3165.5	3191.8	3217.4	3243.8	3270.1	3294.4	3318.7	3343.1	3367.4	3371.3	3375.3
20°	3491.7	3497.0	3501.6	3506.8	3511.4	3460.1	3409.5	3358.2	3306.9	3316.1	3324.6
22.5°	3981.0	3952.1	3923.8	3894.9	3866.6	3769.9	3673.9	3577.2	3481.2	3439.7	3399.0
25°	4717.6	4644.0	4570.3	4496.7	4423.0	4269.1	4115.9	3962.0	3808.7	3718.6	3629.2
27.5°	4955.1	4794.6	4634.8	4474.3	4313.8	4197.4	4081.7	3965.2	3849.5	3706.8	3564.1
30°	5435.2	5182.0	4929.4	4676.2	4423.0	4310.5	4198.1	4084.9	3972.5	3826.5	3681.1
32.5°	5860.7	5597.6	5334.6	5070.8	4807.8	4594.7	4381.6	4168.5	3955.4	3856.7	3758.1
35°	6353.3	6022.5	5691.7	5360.9	5030.1	4847.2	4665.0	4482.2	4300.0	4150.7	4002.1
37.5°	7070.9	6719.0	6367.1	6014.6	5662.8	5415.5	5168.8	4921.5	4674.9	4592.7	4511.1
40°	7754.9	7339.2	6924.2	6508.6	6093.5	5904.1	5714.7	5524.6	5335.2	5196.5	5057.7
42.5°	8327.7	7916.7	7506.3	7095.2	6684.8	6546.7	6409.2	6271.1	6133.7	6019.2	5904.8
45°	8524.4	8189.0	7854.2	7518.8	7183.3	7134.7	7086.7	7038.0	6990.0	6905.1	6820.3
47.5°	8840.7	8498.7	8157.4	7815.4	7473.4	7491.1	7508.9	7527.3	7545.1	7549.7	7553.6
50°	9026.9	8702.0	8377.7	8052.8	7728.6	7814.7	7900.2	7986.4	8072.6	8267.9	8462.6
52.5°	9298.5	8979.5	8661.2	8342.2	8023.2	8169.2	8314.6	8460.6	8605.9	8879.5	9153.1
55°	9639.2	9334.0	9029.5	8724.3	8419.8	8561.9	8703.3	8845.3	8986.7	9291.3	9595.8
57.5°	10091.0	9764.1	9437.9	9111.1	8784.8	8915.7	9045.9	9176.8	9307.0	9596.4	9885.8
60°	10605.3	10250.2	9895.0	9539.2	9184.1	9220.2	9255.7	9291.9	9327.4	9641.2	9954.2
62.5°	10857.9	10529.0	10200.9	9872.0	9543.2	9442.5	9341.9	9240.6	9140.0	9420.8	9701.0
65°	10638.9	10412.6	10187.0	9960.8	9734.5	9557.0	9380.0	9202.5	9024.9	9200.5	9375.4
67.5°	9941.7	9813.5	9685.9	9557.6	9429.4	9131.4	8833.5	8534.9	8237.0	8248.8	8260.0
70°	8811.8	8777.6	8744.1	8709.9	8675.7	8227.8	7780.5	7332.6	6884.8	6816.4	6748.0
72.5°	7380.0	7402.4	7424.1	7446.4	7468.8	6987.4	6505.9	6024.5	5543.1	5429.3	5315.5
75°	5716.0	5839.7	5963.3	6087.6	6211.3	5750.9	5290.5	4829.5	4369.1	4229.0	4088.9
77.5°	4038.9	4269.8	4500.0	4730.8	4961.7	4545.3	4129.7	3713.3	3297.0	3206.3	3115.5
80°	2816.3	2929.4	3042.5	3155.6	3268.7	3059.6	2850.5	2641.3	2432.2	2457.1	2481.5
82.5°	2051.4	2077.7	2103.3	2129.6	2155.9	2070.4	1984.9	1898.8	1813.3	1878.4	1943.5
85°	1314.1	1408.1	1501.5	1595.6	1689.0	1594.3	1499.5	1404.2	1309.5	1352.9	1396.3
87.5°	294.0	465.0	636.0	807.6	978.7	886.6	795.2	703.1	611.0	569.6	528.8
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: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174

CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1666.6	1701.5	1690.9	1681.1	1670.5	1660.0	1679.1	1698.2	1717.9	1737.0	1730.4
5°	2300.6	2307.2	2244.7	2182.9	2120.4	2057.9	2096.7	2135.5	2174.3	2213.1	2199.3
7.5°	2709.7	2676.8	2640.6	2604.5	2567.6	2531.5	2523.6	2515.7	2507.1	2499.2	2488.7
10°	3038.6	3061.6	3037.9	3014.9	2991.2	2967.5	2912.3	2857.0	2801.1	2745.9	2722.9
12.5°	3295.7	3321.4	3327.3	3332.5	3338.5	3344.4	3282.6	3221.4	3159.6	3097.7	3041.8
15°	3299.0	3320.7	3339.8	3358.2	3377.3	3395.7	3357.5	3320.0	3281.9	3243.8	3226.0
17.5°	3379.9	3383.8	3368.1	3352.9	3337.1	3322.0	3306.9	3292.4	3277.3	3262.8	3234.5
20°	3333.9	3343.1	3341.1	3339.1	3336.5	3334.5	3335.8	3336.5	3337.8	3338.5	3322.7
22.5°	3357.5	3316.1	3324.6	3332.5	3341.1	3349.0	3372.7	3396.3	3420.7	3444.4	3507.5
25°	3539.1	3449.0	3435.1	3422.0	3408.2	3395.0	3456.8	3518.0	3579.8	3641.7	3744.3
27.5°	3420.7	3278.0	3246.4	3214.8	3183.2	3151.7	3245.7	3339.1	3433.2	3527.2	3631.8
30°	3535.1	3389.8	3320.0	3250.3	3180.0	3110.2	3200.3	3289.8	3379.9	3469.3	3585.1
32.5°	3659.4	3560.8	3514.1	3468.0	3421.3	3375.3	3382.5	3389.8	3397.0	3404.2	3567.3
35°	3852.8	3703.5	3657.4	3611.4	3565.4	3519.3	3596.3	3672.6	3749.5	3825.8	3963.9
37.5°	4428.9	4346.7	4263.8	4181.0	4097.4	4014.6	4060.0	4105.3	4150.7	4196.1	4326.3
40°	4918.9	4780.1	4766.3	4753.2	4739.4	4725.5	4729.5	4732.8	4736.7	4740.7	4851.8
42.5°	5789.7	5675.3	5604.9	5534.5	5464.1	5393.8	5389.2	5384.6	5379.3	5374.7	5458.2
45°	6734.8	6650.0	6597.3	6544.7	6491.5	6438.8	6355.3	6271.8	6187.6	6104.1	6177.1
47.5°	7558.2	7562.8	7658.2	7752.9	7848.3	7943.6	7800.9	7658.2	7515.5	7372.8	7278.7
50°	8657.9	8852.6	8875.6	8898.0	8921.0	8944.0	8702.0	8460.6	8218.6	7976.5	7877.9
52.5°	9427.4	9701.0	9665.5	9630.6	9595.1	9559.6	9419.5	9280.1	9140.0	8999.9	8784.8
55°	9900.9	10205.5	10178.5	10152.2	10125.2	10098.3	9996.3	9894.4	9792.4	9690.5	9454.4
57.5°	10175.2	10464.6	10472.5	10480.4	10488.3	10496.2	10469.2	10442.2	10415.3	10388.3	10081.2
60°	10267.9	10581.7	10584.9	10587.6	10590.9	10593.5	10550.7	10508.0	10464.6	10421.8	10221.2
62.5°	9981.8	10262.0	10274.5	10286.4	10298.9	10311.3	10281.8	10252.2	10222.6	10193.0	10044.3
65°	9551.1	9726.7	9729.9	9732.6	9735.9	9739.2	9664.2	9589.9	9514.9	9439.9	9404.4
67.5°	8271.8	8283.7	8353.4	8423.1	8492.8	8562.5	8568.5	8574.4	8581.0	8586.9	8535.6
70°	6679.6	6611.2	6686.8	6762.4	6838.1	6913.7	6945.9	6978.1	7011.0	7043.3	7066.9
72.5°	5201.1	5087.3	5143.2	5199.1	5255.6	5311.5	5263.5	5215.5	5167.5	5119.5	5271.4
75°	3948.8	3808.7	3801.5	3794.9	3787.7	3781.1	3756.8	3732.4	3707.4	3683.1	3825.2
77.5°	3024.1	2933.3	2937.9	2941.9	2946.5	2950.4	2925.4	2901.1	2876.1	2851.1	2905.7
80°	2506.5	2530.8	2531.5	2532.1	2532.8	2533.4	2509.8	2486.7	2463.1	2439.4	2399.9
82.5°	2009.3	2074.4	2073.7	2073.7	2073.1	2072.4	2071.1	2069.8	2067.8	2066.5	2002.0
85°	1439.7	1483.1	1438.4	1393.7	1348.9	1304.2	1337.1	1370.0	1403.5	1436.4	1409.4
87.5°	487.4	446.6	393.3	340.7	287.4	234.1	291.4	348.6	406.5	463.7	496.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174

CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1724.5	1717.9	1712.0	1670.5	1628.5	1587.0	1544.9	1621.2	1698.2	1774.5	1850.8
5°	2186.2	2172.4	2159.2	2155.9	2152.6	2148.7	2145.4	2184.2	2223.0	2261.2	2300.0
7.5°	2478.2	2467.7	2457.1	2429.5	2402.6	2374.9	2347.3	2371.0	2394.0	2417.7	2440.7
10°	2700.5	2677.5	2654.5	2594.6	2535.4	2475.6	2415.7	2398.0	2380.2	2362.4	2344.7
12.5°	2985.9	2929.4	2873.5	2805.7	2737.3	2669.6	2601.2	2592.0	2582.8	2574.2	2565.0
15°	3208.9	3191.1	3173.4	3119.4	3065.5	3011.6	2957.7	2885.3	2812.3	2740.0	2667.6
17.5°	3206.9	3178.6	3151.0	3223.4	3295.1	3367.4	3439.1	3362.1	3284.5	3207.6	3130.6
20°	3306.9	3290.4	3274.7	3408.2	3541.0	3674.5	3807.4	3765.3	3722.6	3680.5	3637.7
22.5°	3570.0	3633.1	3695.6	3810.0	3923.8	4038.2	4152.0	4200.0	4248.1	4296.1	4344.1
25°	3846.2	3948.8	4051.4	4221.7	4391.4	4561.8	4732.1	4766.3	4800.5	4834.7	4868.9
27.5°	3735.7	3840.3	3944.9	4073.8	4202.0	4330.9	4459.2	4609.1	4759.7	4909.7	5059.6
30°	3700.2	3815.9	3931.0	4108.0	4284.2	4461.1	4638.1	4844.6	5051.1	5257.0	5463.5
32.5°	3729.8	3892.9	4056.0	4295.4	4534.2	4773.6	5013.0	5230.0	5447.7	5664.7	5881.8
35°	4101.4	4239.5	4377.0	4644.6	4912.3	5180.0	5447.7	5702.2	5956.7	6210.6	6465.1
37.5°	4455.9	4586.1	4716.3	4989.9	5262.9	5536.5	5810.1	6211.9	6614.4	7016.3	7418.1
40°	4962.3	5073.5	5184.0	5418.1	5652.2	5886.4	6120.5	6605.2	7090.0	7574.7	8059.4
42.5°	5541.1	5624.6	5707.5	5950.2	6192.9	6435.5	6678.2	7205.7	7733.8	8261.3	8788.8
45°	6249.4	6322.4	6395.4	6562.5	6729.5	6897.3	7064.3	7608.2	8152.1	8696.0	9240.0
47.5°	7184.7	7090.6	6996.6	7078.8	7161.0	7243.2	7325.4	7863.4	8401.4	8938.7	9476.7
50°	7779.2	7680.6	7581.9	7589.1	7595.7	7603.0	7610.2	8112.0	8613.8	9115.0	9616.8
52.5°	8569.8	8354.0	8139.0	8137.0	8135.0	8132.4	8130.4	8567.8	9005.8	9443.2	9880.6
55°	9218.3	8982.1	8746.0	8700.0	8654.0	8607.3	8561.2	8994.0	9426.1	9858.9	10291.0
57.5°	9774.0	9466.2	9159.1	9086.7	9014.4	8942.0	8869.7	9336.0	9802.9	10269.3	10735.6
60°	10021.3	9820.7	9620.8	9532.0	9443.2	9354.4	9265.6	9662.9	10060.1	10456.7	10853.9
62.5°	9896.3	9747.7	9599.7	9620.1	9640.5	9660.9	9681.3	9908.2	10135.7	10362.6	10589.6
65°	9369.5	9334.0	9299.2	9463.6	9628.0	9792.4	9956.8	9960.1	9963.4	9966.7	9970.0
67.5°	8484.3	8433.0	8381.7	8723.7	9065.0	9407.0	9749.0	9586.6	9424.1	9262.3	9099.9
70°	7090.0	7113.6	7136.7	7602.3	8067.3	8532.9	8998.6	8763.1	8527.0	8291.6	8055.5
72.5°	5423.4	5575.9	5727.9	6210.6	6693.4	7176.1	7658.9	7389.9	7120.2	6851.2	6581.6
75°	3967.2	4109.3	4251.3	4728.2	5205.0	5682.5	6159.3	5839.7	5520.0	5201.1	4881.4
77.5°	2960.3	3015.5	3070.1	3466.7	3862.6	4259.2	4655.2	4334.2	4013.3	3693.0	3372.0
80°	2361.1	2321.7	2282.9	2502.5	2722.2	2941.9	3161.5	2934.0	2705.8	2478.2	2250.6
82.5°	1938.2	1873.8	1810.0	1891.5	1973.1	2055.3	2136.9	1954.7	1772.5	1590.3	1408.1
85°	1382.5	1355.5	1328.5	1352.2	1375.2	1398.9	1422.6	1245.0	1067.4	890.5	712.9
87.5°	528.8	561.7	594.6	632.0	668.9	706.4	743.2	582.1	420.9	260.4	99.3
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: P368174
 CATALOG NUMBER: MSA-SA3D-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: P368174
 CATALOG NUMBER: MSA-SA3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1429.2	1429.2
2.5°	1882.3	1913.9
5°	2299.3	2298.6
7.5°	2430.2	2419.0
10°	2315.7	2286.8
12.5°	2479.5	2393.4
15°	2582.1	2496.0
17.5°	3001.1	2870.8
20°	3483.2	3327.9
22.5°	4108.0	3871.9
25°	4586.8	4304.0
27.5°	4891.9	4723.6
30°	5270.8	5078.1
32.5°	5739.7	5597.0
35°	6334.9	6204.0
37.5°	7377.4	7335.9
40°	8010.1	7960.1
42.5°	8790.8	8792.1
45°	9269.6	9299.2
47.5°	9551.7	9626.0
50°	9776.6	9935.8
52.5°	10098.3	10316.0
55°	10580.3	10869.1
57.5°	10981.5	11227.5
60°	10981.5	11108.5
62.5°	10586.3	10582.3
65°	9908.8	9847.0
67.5°	9022.3	8944.7
70°	7934.4	7812.8
72.5°	6430.9	6279.7
75°	4674.2	4466.4
77.5°	3273.3	3174.0
80°	2298.6	2346.7
82.5°	1476.5	1544.9
85°	702.4	691.9
87.5°	82.9	66.4
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: P368174
CATALOG NUMBER: MSA-SA3D-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)