

Boy, my entropy sure ain't
what it used to be!

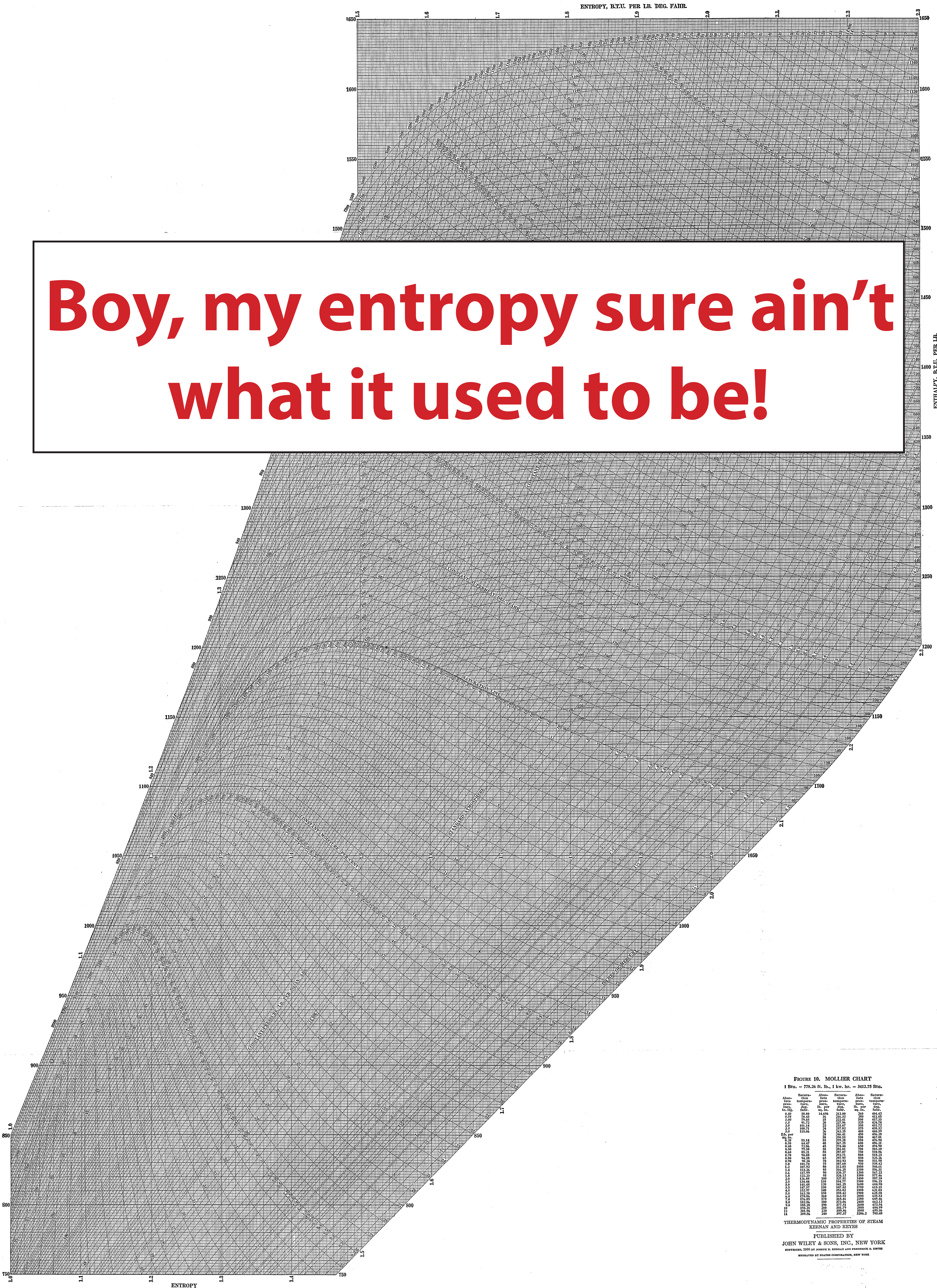


FIGURE 10. MOLLIER CHART
1 Btu. = 778.16 ft. lb., 1 kw. hr. = 3412.14 Btu.
Steam
Absol. Sat. Absol. Sat. Absol. Sat. Absol. Sat.
Press. Temp. Press. Temp. Press. Temp. Press. Temp.
lb./sq. in. deg. F. lb./sq. in. deg. F. lb./sq. in. deg. F. lb./sq. in. deg. F.
0.01 59.71 0.01 59.71 0.01 59.71 0.01 59.71
0.02 60.54 0.02 60.54 0.02 60.54 0.02 60.54
0.05 62.99 0.05 62.99 0.05 62.99 0.05 62.99
0.10 66.28 0.10 66.28 0.10 66.28 0.10 66.28
0.20 72.98 0.20 72.98 0.20 72.98 0.20 72.98
0.50 84.20 0.50 84.20 0.50 84.20 0.50 84.20
1.00 91.77 1.00 91.77 1.00 91.77 1.00 91.77
2.00 103.96 2.00 103.96 2.00 103.96 2.00 103.96
5.00 120.03 5.00 120.03 5.00 120.03 5.00 120.03
10.00 128.03 10.00 128.03 10.00 128.03 10.00 128.03
20.00 137.07 20.00 137.07 20.00 137.07 20.00 137.07
30.00 142.97 30.00 142.97 30.00 142.97 30.00 142.97
40.00 147.01 40.00 147.01 40.00 147.01 40.00 147.01
50.00 150.06 50.00 150.06 50.00 150.06 50.00 150.06
60.00 152.27 60.00 152.27 60.00 152.27 60.00 152.27
70.00 153.76 70.00 153.76 70.00 153.76 70.00 153.76
80.00 154.57 80.00 154.57 80.00 154.57 80.00 154.57
90.00 154.75 90.00 154.75 90.00 154.75 90.00 154.75
100.00 154.29 100.00 154.29 100.00 154.29 100.00 154.29
110.00 153.21 110.00 153.21 110.00 153.21 110.00 153.21
120.00 151.53 120.00 151.53 120.00 151.53 120.00 151.53
130.00 149.26 130.00 149.26 130.00 149.26 130.00 149.26
140.00 146.41 140.00 146.41 140.00 146.41 140.00 146.41
150.00 143.07 150.00 143.07 150.00 143.07 150.00 143.07
160.00 139.24 160.00 139.24 160.00 139.24 160.00 139.24
170.00 134.91 170.00 134.91 170.00 134.91 170.00 134.91
180.00 130.08 180.00 130.08 180.00 130.08 180.00 130.08
190.00 124.75 190.00 124.75 190.00 124.75 190.00 124.75
200.00 118.92 200.00 118.92 200.00 118.92 200.00 118.92
210.00 112.59 210.00 112.59 210.00 112.59 210.00 112.59
220.00 105.76 220.00 105.76 220.00 105.76 220.00 105.76
230.00 98.43 230.00 98.43 230.00 98.43 230.00 98.43
240.00 90.60 240.00 90.60 240.00 90.60 240.00 90.60
250.00 82.27 250.00 82.27 250.00 82.27 250.00 82.27
260.00 73.44 260.00 73.44 260.00 73.44 260.00 73.44
270.00 64.11 270.00 64.11 270.00 64.11 270.00 64.11
280.00 54.28 280.00 54.28 280.00 54.28 280.00 54.28
290.00 43.95 290.00 43.95 290.00 43.95 290.00 43.95
300.00 33.12 300.00 33.12 300.00 33.12 300.00 33.12
310.00 21.79 310.00 21.79 310.00 21.79 310.00 21.79
320.00 10.06 320.00 10.06 320.00 10.06 320.00 10.06
330.00 -1.07 330.00 -1.07 330.00 -1.07 330.00 -1.07
340.00 -12.40 340.00 -12.40 340.00 -12.40 340.00 -12.40
350.00 -23.93 350.00 -23.93 350.00 -23.93 350.00 -23.93
360.00 -35.66 360.00 -35.66 360.00 -35.66 360.00 -35.66
370.00 -47.59 370.00 -47.59 370.00 -47.59 370.00 -47.59
380.00 -59.72 380.00 -59.72 380.00 -59.72 380.00 -59.72
390.00 -72.05 390.00 -72.05 390.00 -72.05 390.00 -72.05
400.00 -84.58 400.00 -84.58 400.00 -84.58 400.00 -84.58
410.00 -97.31 410.00 -97.31 410.00 -97.31 410.00 -97.31
420.00 -110.24 420.00 -110.24 420.00 -110.24 420.00 -110.24
430.00 -123.37 430.00 -123.37 430.00 -123.37 430.00 -123.37
440.00 -136.70 440.00 -136.70 440.00 -136.70 440.00 -136.70
450.00 -150.23 450.00 -150.23 450.00 -150.23 450.00 -150.23
460.00 -163.96 460.00 -163.96 460.00 -163.96 460.00 -163.96
470.00 -177.89 470.00 -177.89 470.00 -177.89 470.00 -177.89
480.00 -192.02 480.00 -192.02 480.00 -192.02 480.00 -192.02
490.00 -206.35 490.00 -206.35 490.00 -206.35 490.00 -206.35
500.00 -220.88 500.00 -220.88 500.00 -220.88 500.00 -220.88
510.00 -235.61 510.00 -235.61 510.00 -235.61 510.00 -235.61
520.00 -250.54 520.00 -250.54 520.00 -250.54 520.00 -250.54
530.00 -265.67 530.00 -265.67 530.00 -265.67 530.00 -265.67
540.00 -280.90 540.00 -280.90 540.00 -280.90 540.00 -280.90
550.00 -296.33 550.00 -296.33 550.00 -296.33 550.00 -296.33
560.00 -311.96 560.00 -311.96 560.00 -311.96 560.00 -311.96
570.00 -327.79 570.00 -327.79 570.00 -327.79 570.00 -327.79
580.00 -343.82 580.00 -343.82 580.00 -343.82 580.00 -343.82
590.00 -359.95 590.00 -359.95 590.00 -359.95 590.00 -359.95
600.00 -376.28 600.00 -376.28 600.00 -376.28 600.00 -376.28
610.00 -392.81 610.00 -392.81 610.00 -392.81 610.00 -392.81
620.00 -409.54 620.00 -409.54 620.00 -409.54 620.00 -409.54
630.00 -426.47 630.00 -426.47 630.00 -426.47 630.00 -426.47
640.00 -443.60 640.00 -443.60 640.00 -443.60 640.00 -443.60
650.00 -460.93 650.00 -460.93 650.00 -460.93 650.00 -460.93
660.00 -478.46 660.00 -478.46 660.00 -478.46 660.00 -478.46
670.00 -496.19 670.00 -496.19 670.00 -496.19 670.00 -496.19
680.00 -514.12 680.00 -514.12 680.00 -514.12 680.00 -514.12
690.00 -532.25 690.00 -532.25 690.00 -532.25 690.00 -532.25
700.00 -550.58 700.00 -550.58 700.00 -550.58 700.00 -550.58
710.00 -569.11 710.00 -569.11 710.00 -569.11 710.00 -569.11
720.00 -587.84 720.00 -587.84 720.00 -587.84 720.00 -587.84
730.00 -606.77 730.00 -606.77 730.00 -606.77 730.00 -606.77
740.00 -625.90 740.00 -625.90 740.00 -625.90 740.00 -625.90
750.00 -645.23 750.00 -645.23 750.00 -645.23 750.00 -645.23
760.00 -664.76 760.00 -664.76 760.00 -664.76 760.00 -664.76
770.00 -684.49 770.00 -684.49 770.00 -684.49 770.00 -684.49
780.00 -704.42 780.00 -704.42 780.00 -704.42 780.00 -704.42
790.00 -724.55 790.00 -724.55 790.00 -724.55 790.00 -724.55
800.00 -744.88 800.00 -744.88 800.00 -744.88 800.00 -744.88
810.00 -765.41 810.00 -765.41 810.00 -765.41 810.00 -765.41
820.00 -786.14 820.00 -786.14 820.00 -786.14 820.00 -786.14
830.00 -807.07 830.00 -807.07 830.00 -807.07 830.00 -807.07
840.00 -828.20 840.00 -828.20 840.00 -828.20 840.00 -828.20
850.00 -849.53 850.00 -849.53 850.00 -849.53 850.00 -849.53
860.00 -871.16 860.00 -871.16 860.00 -871.16 860.00 -871.16
870.00 -893.09 870.00 -893.09 870.00 -893.09 870.00 -893.09
880.00 -915.32 880.00 -915.32 880.00 -915.32 880.00 -915.32
890.00 -937.85 890.00 -937.85 890.00 -937.85 890.00 -937.85
900.00 -960.68 900.00 -960.68 900.00 -960.68 900.00 -960.68
910.00 -983.81 910.00 -983.81 910.00 -983.81 910.00 -983.81
920.00 -1007.24 920.00 -1007.24 920.00 -1007.24 920.00 -1007.24
930.00 -1030.97 930.00 -1030.97 930.00 -1030.97 930.00 -1030.97
940.00 -1054.90 940.00 -1054.90 940.00 -1054.90 940.00 -1054.90
950.00 -1079.13 950.00 -1079.13 950.00 -1079.13 950.00 -1079.13
960.00 -1103.66 960.00 -1103.66 960.00 -1103.66 960.00 -1103.66
970.00 -1128.49 970.00 -1128.49 970.00 -1128.49 970.00 -1128.49
980.00 -1153.62 980.00 -1153.62 980.00 -1153.62 980.00 -1153.62
990.00 -1179.05 990.00 -1179.05 990.00 -1179.05 990.00 -1179.05
1000.00 -1204.78 1000.00 -1204.78 1000.00 -1204.78 1000.00 -1204.78
1010.00 -1230.81 1010.00 -1230.81 1010.00 -1230.81 1010.00 -1230.81
1020.00 -1257.14 1020.00 -1257.14 1020.00 -1257.14 1020.00 -1257.14
1030.00 -1283.77 1030.00 -1283.77 1030.00 -1283.77 1030.00 -1283.77
1040.00 -1310.70 1040.00 -1310.70 1040.00 -1310.70 1040.00 -1310.70
1050.00 -1337.93 1050.00 -1337.93 1050.00 -1337.93 1050.00 -1337.93
1060.00 -1365.46 1060.00 -1365.46 1060.00 -1365.46 1060.00 -1365.46
1070.00 -1393.29 1070.00 -1393.29 1070.00 -1393.29 1070.00 -1393.29
1080.00 -1421.42 1080.00 -1421.42 1080.00 -1421.42 1080.00 -1421.42
1090.00 -1449.85 1090.00 -1449.85 1090.00 -1449.85 1090.00 -1449.85
1100.00 -1478.58 1100.00 -1478.58 1100.00 -1478.58 1100.00 -1478.58
1110.00 -1507.61 1110.00 -1507.61 1110.00 -1507.61 1110.00 -1507.61
1120.00 -1536.94 1120.00 -1536.94 1120.00 -1536.94 1120.00 -1536.94
1130.00 -1566.57 1130.00 -1566.57 1130.00 -1566.57 1130.00 -1566.57
1140.00 -1596.50 1140.00 -1596.50 1140.00 -1596.50 1140.00 -1596.50
1150.00 -1626.73 1150.00 -1626.73 1150.00 -1626.73 1150.00 -1626.73
1160.00 -1657.26 1160.00 -1657.26 1160.00 -1657.26 1160.00 -1657.26
1170.00 -1688.09 1170.00 -1688.09 1170.00 -1688.09 1170.00 -1688.09
1180.00 -1719.22 1180.00 -1719.22 1180.00 -1719.22 1180.00 -1719.22
1190.00 -1750.65 1190.00 -1750.65 1190.00 -1750.65 1190.00 -1750.65
1200.00 -1782.38 1200.00 -1782.38 1200.00 -1782.38 1200.00 -1782.38
1210.00 -1814.41 1210.00 -1814.41 1210.00 -1814.41 1210.00 -1814.41
1220.00 -1846.74 1220.00 -1846.74 1220.00 -1846.74 1220.00 -1846.74
1230.00 -1879.37 1230.00 -1879.37 1230.00 -1879.37 1230.00 -1879.37
1240.00 -1912.30 1240.00 -1912.30 1240.00 -1912.30 1240.00 -1912.30
1250.00 -1945.53 1250.00 -1945.53 1250.00 -1945.53 1250.00 -1945.53
1260.00 -1979.06 1260.00 -1979.06 1260.00 -1979.06 1260.00 -1979.06
1270.00 -2012.89 1270.00 -2012.89 1270.00 -2012.89 1270.00 -2012.89
1280.00 -2047.02 1280.00 -2047.02 1280.00 -2047.02 1280.00 -2047.02
1290.00 -2081.45 1290.00 -2081.45 1290.00 -2081.45 1290.00 -2081.45
1300.00 -2116.18 1300.00 -2116.18 1300.00 -2116.18 1300.00 -2116.18
1310.00 -2151.21 1310.00 -2151.21 1310.00 -2151.21 1310.00 -2151.21
1320.00 -2186.54 1320.00 -2186.54 1320.00 -2186.54 1320.00 -2186.54
1330.00 -2222.17 1330.00 -2222.17 1330.00 -2222.17 1330.00 -2222.17
1340.00 -2258.10 1340.00 -2258.10 1340.00 -2258.10 1340.00 -2258.10
1350.00 -2294.33 1350.00 -2294.33 1350.00 -2294.33 1350.00 -2294.33
1360.00 -2330.86 1360.00 -2330.86 1360.00 -2330.86 1360.00 -2330.86
1370.00 -2367.69 1370.00 -2367.69 1370.00 -2367.69 1370.00 -2367.69
1380.00 -2404.82 1380.00 -2404.82 1380.00 -2404.82 1380.00 -2404.82
1390.00 -2442.25 1390.00 -2442.25 1390.00 -2442.25 1390.00 -2442.25
1400.00 -2480.08 1400.00 -2480.08 1400.00 -2480.08 1400.00 -2480.08
1410.00 -2518.21 1410.00 -2518.21 1410.00 -2518.21 1410.00 -2518.21
1420.00 -2556.64 1420.00 -2556.64 1420.00 -2556.64 1420.00 -2556.64
1430.00 -2595.37 1430.00 -2595.37 1430.00 -2595.37 1430.00 -2595.37
1440.00 -2634.40 1440.00 -2634.40 1440.00 -2634.40 1440.00 -2634.40
1450.00 -2673.73 1450.00 -2673.73 1450.00 -2673.73 1450.00 -2673.73
1460.00 -2713.36 1460.00 -2713.36 1460.00 -2713.36 1460.00 -2713.36
1470.00 -2753.29 1470.00 -2753.29 1470.00 -2753.29 1470.00 -2753.29
1480.00 -2793.52 1480.00 -2793.52 1480.00 -2793.52 1480.00 -2793.52
1490.00 -2834.05 1490.00 -2834.05 1490.00 -2834.05 1490.00 -2834.05
1500.00 -2874.88 1500.00 -2874.88 1500.00 -2874.88 1500.00 -2874.88
1510.00 -2916.01 1510.00 -2916.01 1510.00 -2916.01 1510.00 -2916.01
1520.00 -2957.44 1520.00 -2957.44 1520.00 -2957.44 1520.00 -2957.44
1530.00 -2999.17 1530.00 -2999.17 1530.00 -2999.17 1530.00 -2999.17
1540.00 -3041.20 1540.00 -3041.20 1540.00 -3041.20 1540.00 -3041.20
1550.00 -3083.53 1550.00 -3083.53 1550.00 -3083.53 1550.00 -3083.53
1560.00 -3126.16 1560.00 -3126.16 1560.00 -3126.16 1560.00 -3126.16
1570.00 -3169.09 1570.00 -3169.09 1570.00 -3169.09 1570.00 -3169.09
1580.00 -3212.32 1580.00 -3212.32 1580.00 -3212.32 1580.00 -3212.32
1590.00 -3255.85 1590.00 -3255.85 1590.00 -3255.85 1590.00 -3255.85
1600.00 -3299.68 1600.00 -3299.68 1600.00 -3299.68 1600.00 -3299.68
1610.00 -3343.81 1610.00 -3343.81 1610.00 -3343.81 1610.00 -3343.81
1620.00 -3388.24 1620.00 -3388.24 1620.00 -3388.24 1620.00 -3388.24
1630.00 -3432.97 1630.00 -3432.97 1630.00 -3432.97 1630.00 -3432.97
1640.00 -3477.90 1640.00 -3477.90 1640.00 -3477.90 1640.00 -3477.90
1650.00 -3523.13 1650.00 -3523.13 1650.00 -3523.13 1650.00 -3523.13
1660.00 -3568.66 1660.00 -3568.66 1660.00 -3568.66 1660.00 -3568.66
1670.00 -3614.49 1670.00 -3614.49 1670.00 -3614.49 1670.00 -3614.49
1680.00 -3660.62 1680.00 -3660.62 1680.00 -3660.62 1680.00 -3660.62
1690.00 -3707.05 1690.00 -3707.05 1690.00 -3707.05 1690.00 -3707.05
1700.00 -3753.78 1700.00 -3753.78 1700.00 -3753.78 1700.00 -3753.78
1710.00 -3800.81 1710.00 -3800.81 1710.00 -3800.81 1710.00 -3800.81
1720.00 -3848.14 1720.00 -3848.14 1720.00 -3848.14 1720.00 -3848.14
1730.00 -3895.77 1730.00 -3895.77 1730.00 -3895.77 1730.00 -3895.77
1740.00 -3943.60 1740.00 -3943.60 1740.00 -3943.60 1740.00 -3943.60
1750.00 -3991.73 1750.00 -3991.73 1750.00 -3991.73 1750.00 -3991.73
1760.00 -4040.16 1760.00 -4040.16 1760.00 -4040.16 1760.00 -4040.16
1770.00 -4088.89 1770.00 -4088.89 1770.00 -4088.89 1770.00 -4088.89
1780.00 -4137.92 1780.00 -4137.92 1780.00 -4137.92 1780.00 -4137.92
1790.00 -4187.25 1790.00 -4187.25 1790.00 -4187.25 1790.00 -4187.25
1800.00 -4236.88 1800.00 -4236.88 1800.00 -4236.88 1800.00 -4236.88
1810.00 -4286.81 1810.00 -4286.81 1810.00 -4286.81 1810.00 -4286.81
1820.00 -4337.04 1820.00 -4337.04 1820.00 -4337.04 1820.00 -4337.04
1830.00 -4387.57 1830.00 -4387.57 1830.00 -4387.57 1830.00 -4387.57
1840.00 -4438.40 1840.00 -4438.40 1840.00 -4438.40 1840.00 -4438.40
1850.00 -4489.53 1850.00 -4489.53 1850.00 -4489.53 1850.00 -4489.53
1860.00 -4540.96 1860.00 -4540.96 1860.00 -4540.96 1860.00 -4540.96
1870.00 -4592.69 1870.00 -4592.69 1870.00 -4592.69 1870.00 -4592.69
1880.00 -4644.72 1880.00 -4644.72 1880.00 -4644.72 1880.00 -4644.72
1890.00 -4697.05 1890.00 -4697.05 1890.00 -4697.05 1890.00 -4697.05
1900.00 -4749.68 1900.00 -4749.68 1900.00 -4749.68 1900.00 -4749.68
1910.00 -4802.61 1910.00 -4802.61 1910.00 -