Table B.6 Properties of Saturated Steam: Pressure Table^a

| P(bar) | | $\hat{V}(m^3)$ | /kg) | $\hat{U}(\mathbf{k},$ | J/kg) | $\hat{H}(\mathrm{kJ/kg})$ | | |
|---------|-------|----------------|-------|-----------------------|--------|---------------------------|-------------|--------|
| | T(°C) | Water | Steam | Water | Steam | Water | Evaporation | Steam |
| 0.00611 | 0.01 | 0.001000 | 206.2 | zero | 2375.6 | +0.0 | 2501.6 | 2501.6 |
| 0.008 | 3.8 | 0.001000 | 159.7 | 15.8 | 2380.7 | 15.8 | 2492.6 | 2508.5 |
| 0.010 | 7.0 | 0.001000 | 129.2 | 29.3 | 2385.2 | 29.3 | 2485.0 | 2514.4 |
| 0.012 | 9.7 | 0.001000 | 108.7 | 40.6 | 2388.9 | 40.6 | 2478.7 | 2519.3 |
| 0.014 | 12.0 | 0.001000 | 93.9 | 50.3 | 2392.0 | 50.3 | 2473.2 | 2523.5 |
| 0.016 | 14.0 | 0.001001 | 82.8 | 58.9 | 2394.8 | 58.9 | 2468.4 | 2527.3 |
| 0.018 | 15.9 | 0.001001 | 74.0 | 66.5 | 2397.4 | 66.5 | 2464.1 | 2530.6 |
| 0.020 | 17.5 | 0.001001 | 67.0 | 73.5 | 2399.6 | 73.5 | 2460.2 | 2533.6 |
| 0.022 | 19.0 | 0.001002 | 61.2 | 79.8 | 2401.7 | 79.8 | 2456.6 | 2536.4 |
| 0.024 | 20.4 | 0.001002 | 56.4 | 85.7 | 2403.6 | 85.7 | 2453.3 | 2539.0 |
| 0.026 | 21.7 | 0.001002 | 52.3 | 91.1 | 2405.4 | 91.1 | 2450.2 | 2541.3 |
| 0.028 | 23.0 | 0.001002 | 48.7 | 96.2 | 2407.1 | 96.2 | 2447.3 | 2543.6 |
| 0.030 | 24.1 | 0.001003 | 45.7 | 101.0 | 2408.6 | 101.0 | 2444.6 | 2545.6 |
| 0.035 | 26.7 | 0.001003 | 39.5 | 111.8 | 2412.2 | 111.8 | 2438.5 | 2550.4 |
| 0.040 | 29.0 | 0.001004 | 34.8 | 121.4 | 2415.3 | 121.4 | 2433.1 | 2554.5 |
| 0.045 | 31.0 | 0.001005 | 31.1 | 130.0 | 2418.1 | 130.0 | 2428.2 | 2558.2 |
| 0.050 | 32.9 | 0.001005 | 28.2 | 137.8 | 2420.6 | 137.8 | 2423.8 | 2561.6 |
| 0.060 | 36.2 | 0.001006 | 23.74 | 151.5 | 2425.1 | 151.5 | 2416.0 | 2567.5 |
| 0.070 | 39.0 | 0.001007 | 20.53 | 163.4 | 2428.9 | 163.4 | 2409.2 | 2572.6 |
| 0.080 | 41.5 | 0.001008 | 18.10 | 173.9 | 2432.3 | 173.9 | 2403.2 | 2577.1 |
| 0.090 | 43.8 | 0.001009 | 16.20 | 183.3 | 2435.3 | 183.3 | 2397.9 | 2581.1 |
| 0.10 | 45.8 | 0.001010 | 14.67 | 191.8 | 2438.0 | 191.8 | 2392.9 | 2584.8 |
| 0.11 | 47.7 | 0.001011 | 13.42 | 199.7 | 2440.5 | 199.7 | 2388.4 | 2588.1 |
| 0.12 | 49.4 | 0.001012 | 12.36 | 206.9 | 2442.8 | 206.9 | 2384.3 | 2591.2 |
| 0.13 | 51.1 | 0.001013 | 11.47 | 213.7 | 2445.0 | 213.7 | 2380.4 | 2594.0 |
| 0.14 | 52.6 | 0.001013 | 10.69 | 220.0 | 2447.0 | 220.0 | 2376.7 | 2596.7 |

| 0.15 | 54.0 | 0.001014 | 10.02 | 226.0 | 2448.9 | 226.0 | 2373.2 | 2599.2 |
|---------|-------|----------|-------|-------|--------|-------|--------|--------|
| 0.16 | 55.3 | 0.001015 | 9.43 | 231.6 | 2450.6 | 231.6 | 2370.0 | 2601.6 |
| 0.17 | 56.6 | 0.001015 | 8.91 | 236.9 | 2452.3 | 236.9 | 2366.9 | 2603.8 |
| 0.18 | 57.8 | 0.001016 | 8.45 | 242.0 | 2453.9 | 242.0 | 2363.9 | 2605.9 |
| 0.19 | 59.0 | 0.001017 | 8.03 | 246.8 | 2455.4 | 246.8 | 2361.1 | 2607.9 |
| 0.20 | 60.1 | 0.001017 | 7.65 | 251.5 | 2456.9 | 251.5 | 2358.4 | 2609.9 |
| 0.22 | 62.2 | 0.001018 | 7.00 | 260.1 | 2459.6 | 260.1 | 2353.3 | 2613.5 |
| 0.24 | 64.1 | 0.001019 | 6.45 | 268.2 | 2462.1 | 268.2 | 2348.6 | 2616.8 |
| 0.26 | 65.9 | 0.001020 | 5.98 | 275.6 | 2464.4 | 275.7 | 2344.2 | 2619.9 |
| 0.28 | 67.5 | 0.001021 | 5.58 | 282.7 | 2466.5 | 282.7 | 2340.0 | 2622.7 |
| 0.30 | 69.1 | 0.001022 | 5.23 | 289.3 | 2468.6 | 289.3 | 2336.1 | 2625.4 |
| 0.35 | 72.7 | 0.001025 | 4.53 | 304.3 | 2473.1 | 304.3 | 2327.2 | 2631.5 |
| 0.40 | 75.9 | 0.001027 | 3.99 | 317.6 | 2477.1 | 317.7 | 2319.2 | 2636.9 |
| 0.45 | 78.7 | 0.001028 | 3.58 | 329.6 | 2480.7 | 329.6 | 2312.0 | 2641.7 |
| 0.50 | 81.3 | 0.001030 | 3.24 | 340.5 | 2484.0 | 340.6 | 2305.4 | 2646.0 |
| 0.55 | 83.7 | 0.001032 | 2.96 | 350.6 | 2486.9 | 350.6 | 2299.3 | 2649.9 |
| 0.60 | 86.0 | 0.001033 | 2.73 | 359.9 | 2489.7 | 359.9 | 2293.6 | 2653.6 |
| 0.65 | 88.0 | 0.001035 | 2.53 | 368.5 | 2492.2 | 368.6 | 2288.3 | 2656.9 |
| 0.70 | 90.0 | 0.001036 | 2.36 | 376.7 | 2494.5 | 376.8 | 2283.3 | 2660.1 |
| 0.75 | 91.8 | 0.001037 | 2.22 | 384.4 | 2496.7 | 384.5 | 2278.6 | 2663.0 |
| 0.80 | 93.5 | 0.001039 | 2.087 | 391.6 | 2498.8 | 391.7 | 2274.1 | 2665.8 |
| 0.85 | 95.2 | 0.001040 | 1.972 | 398.5 | 2500.8 | 398.6 | 2269.8 | 2668.4 |
| 0.90 | 96.7 | 0.001041 | 1.869 | 405.1 | 2502.6 | 405.2 | 2265.6 | 2670.9 |
| 0.95 | 98.2 | 0.001042 | 1.777 | 411.4 | 2504.4 | 411.5 | 2261.7 | 2673.2 |
| 1.00 | 99.6 | 0.001043 | 1.694 | 417.4 | 2506.1 | 417.5 | 2257.9 | 2675.4 |
| 1.01325 | 100.0 | 0.001044 | 1.673 | 419.0 | 2506.5 | 419.1 | 2256.9 | 2676.0 |
| (1 atm) | | | | | | | | |

[&]quot;From R. W. Haywood, Thermodynamic Tables in SI (Metric) Units, Cambridge University Press, London, 1968. $\hat{V} = \text{specific volume}, \hat{U} = \text{specific}$ internal energy, and $\hat{H} = \text{specific enthalpy}$. Note: kJ/kg \times 0.4303 = Btu/lb_m.

(continued)

Table B.6 (Continued)

| | | $\hat{V}(m^3/kg)$ | | $\hat{U}(\mathbf{k})$ | J/kg) | $\hat{H}(kJ/kg)$ | | |
|--------|-------|-------------------|-------|-----------------------|--------|------------------|-------------|--------|
| P(bar) | T(°C) | Water | Steam | Water | Steam | Water | Evaporation | Steam |
| 1.1 | 102.3 | 0.001046 | 1.549 | 428.7 | 2509.2 | 428.8 | 2250.8 | 2679.6 |
| 1.2 | 104.8 | 0.001048 | 1.428 | 439.2 | 2512.1 | 439.4 | 2244.1 | 2683.4 |
| 1.3 | 107.1 | 0.001049 | 1.325 | 449.1 | 2514.7 | 449.2 | 2237.8 | 2687.0 |
| 1.4 | 109.3 | 0.001051 | 1.236 | 458.3 | 2517.2 | 458.4 | 2231.9 | 2690.3 |
| 1.5 | 111.4 | 0.001053 | 1.159 | 467.0 | 2519.5 | 467.1 | 2226.2 | 2693.4 |
| 1.6 | 113.3 | 0.001055 | 1.091 | 475.2 | 2521.7 | 475.4 | 2220.9 | 2696.2 |
| 1.7 | 115.2 | 0.001056 | 1.031 | 483.0 | 2523.7 | 483.2 | 2215.7 | 2699.0 |
| 1.8 | 116.9 | 0.001058 | 0.977 | 490.5 | 2525.6 | 490.7 | 2210.8 | 2701.5 |
| 1.9 | 118.6 | 0.001059 | 0.929 | 497.6 | 2527.5 | 497.8 | 2206.1 | 2704.0 |
| 2.0 | 120.2 | 0.001061 | 0.885 | 504.5 | 2529.2 | 504.7 | 2201.6 | 2706.3 |
| 2.2 | 123.3 | 0.001064 | 0.810 | 517.4 | 2532.4 | 517.6 | 2193.0 | 2710.6 |
| 2.4 | 126.1 | 0.001066 | 0.746 | 529.4 | 2535.4 | 529.6 | 2184.9 | 2714.5 |
| 2.6 | 128.7 | 0.001069 | 0.693 | 540.6 | 2538.1 | 540.9 | 2177.3 | 2718.2 |
| 2.8 | 131.2 | 0.001071 | 0.646 | 551.1 | 2540.6 | 551.4 | 2170.1 | 2721.5 |
| 3.0 | 133.5 | 0.001074 | 0.606 | 561.1 | 2543.0 | 561.4 | 2163.2 | 2724.7 |
| 3.2 | 135.8 | 0.001076 | 0.570 | 570.6 | 2545.2 | 570.9 | 2156.7 | 2727.6 |
| 3.4 | 137.9 | 0.001078 | 0.538 | 579.6 | 2547.2 | 579.9 | 2150.4 | 2730.3 |
| 3.6 | 139.9 | 0.001080 | 0.510 | 588.1 | 2549.2 | 588.5 | 2144.4 | 2732.9 |
| 3.8 | 141.8 | 0.001082 | 0.485 | 596.4 | 2551.0 | 596.8 | 2138.6 | 2735.3 |
| 4.0 | 143.6 | 0.001084 | 0.462 | 604.2 | 2552.7 | 604.7 | 2133.0 | 2737.6 |
| 4.2 | 145.4 | 0.001086 | 0.442 | 611.8 | 2554.4 | 612.3 | 2127.5 | 2739.8 |
| 4.4 | 147.1 | 0.001088 | 0.423 | 619.1 | 2555.9 | 619.6 | 2122.3 | 2741.9 |
| 4.6 | 148.7 | 0.001089 | 0.405 | 626.2 | 2557.4 | 626.7 | 2117.2 | 2743.9 |
| 4.8 | 150.3 | 0.001091 | 0.389 | 633.0 | 2558.8 | 633.5 | 2112.2 | 2745.7 |
| 5.0 | 151.8 | 0.001093 | 0.375 | 639.6 | 2560.2 | 640.1 | 2107.4 | 2747.5 |
| 5.5 | 155.5 | 0.001097 | 0.342 | 655.2 | 2563.3 | 655.8 | 2095.9 | 2751.7 |
| 6.0 | 158.8 | 0.001101 | 0.315 | 669.8 | 2566.2 | 670.4 | 2085.0 | 2755.5 |
| 6.5 | 162.0 | 0.001105 | 0.292 | 683.4 | 2568.7 | 684.1 | 2074.7 | 2758.9 |
| 7.0 | 165.0 | 0.001108 | 0.273 | 696.3 | 2571.1 | 697.1 | 2064.9 | 2762.0 |

| 7.5 167.8 0.001112 0.2554 708.5 2573.3 709.3 2055.5 2764.8 8.0 170.4 0.001115 0.2403 720.0 2575.5 720.9 2046.5 2767.5 8.5 172.9 0.001118 0.2268 731.1 2577.1 732.0 2037.9 2769.9 9.0 175.4 0.001121 0.2148 741.6 2578.8 742.6 2029.5 2772.1 9.5 177.7 0.001127 0.1943 761.5 2581.9 762.6 2013.6 2776.2 10.0 179.9 0.001130 0.1855 770.8 2581.3 772.0 2005.9 2778.0 11.0 184.1 0.001133 0.1774 779.9 2584.5 781.1 1998.5 2779.7 11.5 186.0 0.001136 0.1700 788.6 2585.8 789.9 1991.3 2781.3 12.0 188.0 0.001139 0.1632 797.1 2586.9 798.4 1984.3< | | | | | | | | | |
|---|------|-------|----------|--------|--------|--------|--------|--------|--------|
| 8.5 172.9 0.001118 0.2268 731.1 2577.1 732.0 2037.9 2769.9 9.0 175.4 0.001121 0.2148 741.6 2578.8 742.6 2029.5 2772.1 9.5 177.7 0.001127 0.1943 761.5 2581.9 762.6 2013.6 2776.2 10.0 179.9 0.001130 0.1855 770.8 2583.3 772.0 2005.9 2778.0 11.0 184.1 0.001133 0.1774 779.9 2584.5 781.1 1998.5 2779.7 11.5 186.0 0.001139 0.1632 797.1 2586.9 798.4 1984.3 2782.7 12.5 189.8 0.001141 0.1509 805.3 2588.0 806.7 1977.4 2784.1 13.0 191.6 0.001144 0.1501 828.5 2590.8 830.1 1957.7 2787.8 15 198.3 0.001149 0.1407 828.5 2590.8 830.1 1957.7< | 7.5 | 167.8 | 0.001112 | 0.2554 | 708.5 | 2573.3 | 709.3 | 2055.5 | 2764.8 |
| 9.0 175.4 0.001121 0.2148 741.6 2578.8 742.6 2029.5 2772.1 9.5 177.7 0.001124 0.2040 751.8 2580.4 752.8 2021.4 2774.2 10.0 179.9 0.001127 0.1943 761.5 2581.9 762.6 2013.6 2776.2 10.5 182.0 0.001130 0.1855 770.8 2583.3 772.0 2005.9 2778.0 11.0 184.1 0.001136 0.1700 788.6 2585.8 789.9 191.3 2781.3 12.0 188.0 0.001139 0.1632 797.1 2586.9 798.4 1984.3 2782.7 12.5 189.8 0.001141 0.1569 805.3 2588.0 806.7 1977.4 2784.1 13.0 191.6 0.001144 0.1511 813.2 2589.0 814.7 1970.7 2785.8 14 195.0 0.001149 0.1407 828.5 2590.8 830.1 1957.7< | 8.0 | 170.4 | 0.001115 | 0.2403 | 720.0 | 2575.5 | 720.9 | 2046.5 | 2767.5 |
| 9.5 177.7 0.001124 0.2040 751.8 2580.4 752.8 2021.4 2774.2 10.0 179.9 0.001127 0.1943 761.5 2581.9 762.6 2013.6 2776.2 10.5 182.0 0.001130 0.1855 770.8 2583.3 772.0 2005.9 2778.0 11.0 184.1 0.001133 0.1774 779.9 2584.5 781.1 1998.5 2779.7 11.5 186.0 0.001136 0.1700 788.6 2585.8 789.9 1991.3 2781.3 12.0 188.0 0.001141 0.1569 805.3 2586.9 798.4 1984.3 2782.7 12.5 189.8 0.001144 0.1516 803.2 2589.0 814.7 1970.7 2785.4 14 195.0 0.001149 0.1407 828.5 2590.8 830.1 1957.7 2787.8 15 198.3 0.001159 0.1237 856.7 2593.8 858.6 1933.2< | 8.5 | 172.9 | 0.001118 | 0.2268 | 731.1 | 2577.1 | 732.0 | 2037.9 | 2769.9 |
| 10.0 179.9 0.001127 0.1943 761.5 2581.9 762.6 2013.6 2776.2 10.5 182.0 0.001130 0.18855 770.8 2583.3 772.0 2005.9 2778.0 11.0 184.1 0.001133 0.1774 779.9 2584.5 781.1 1998.5 2779.7 11.5 186.0 0.001136 0.1700 788.6 2585.8 789.9 1991.3 2781.3 12.0 188.0 0.001139 0.1632 797.1 2586.9 798.4 1984.3 2782.7 12.5 189.8 0.001141 0.1569 805.3 2588.0 806.7 1977.4 2784.1 13.0 191.6 0.001144 0.1511 813.2 2589.0 814.7 1970.7 2787.8 14 195.0 0.001149 0.1407 828.5 2590.8 830.1 1957.7 2787.8 15 198.3 0.001153 0.1317 842.9 2592.4 844.7 1945. | 9.0 | 175.4 | 0.001121 | 0.2148 | 741.6 | 2578.8 | 742.6 | 2029.5 | 2772.1 |
| 10.5 182.0 0.001130 0.1855 770.8 2583.3 772.0 2005.9 2778.0 11.0 184.1 0.001133 0.1774 779.9 2584.5 781.1 1998.5 2779.7 11.5 186.0 0.001136 0.1700 788.6 2585.8 789.9 1991.3 2781.3 12.0 188.0 0.001141 0.1569 805.3 2588.0 806.7 197.4 2784.1 13.0 191.6 0.001144 0.1511 813.2 2589.0 814.7 1970.7 2785.4 14 195.0 0.001149 0.1407 828.5 2590.8 830.1 195.7 2787.8 15 198.3 0.001154 0.1317 842.9 2592.4 844.7 1945.2 2789.9 16 201.4 0.001159 0.1237 856.7 2593.8 858.6 1933.2 2791.7 17 204.3 0.001163 0.1166 869.9 2595.1 871.8 1921.5 | 9.5 | 177.7 | 0.001124 | 0.2040 | 751.8 | 2580.4 | 752.8 | 2021.4 | 2774.2 |
| 11.0 184.1 0.001133 0.1774 779.9 2584.5 781.1 1998.5 2779.7 11.5 186.0 0.001136 0.1700 788.6 2585.8 789.9 1991.3 2781.3 12.0 188.0 0.001139 0.1632 797.1 2586.9 798.4 1984.3 2782.7 12.5 189.8 0.001141 0.1569 805.3 2588.0 806.7 1977.4 2784.1 13.0 191.6 0.001144 0.1511 813.2 2589.0 814.7 1970.7 2785.4 14 195.0 0.001149 0.1407 828.5 2590.8 830.1 1957.7 2787.8 15 198.3 0.001154 0.1317 842.9 2592.4 844.7 1945.2 2789.9 16 201.4 0.001159 0.1237 856.7 2593.8 858.6 1933.2 2791.7 17 204.3 0.001163 0.1166 869.9 2595.1 871.8 1921.5 <td>10.0</td> <td>179.9</td> <td>0.001127</td> <td>0.1943</td> <td>761.5</td> <td>2581.9</td> <td>762.6</td> <td>2013.6</td> <td>2776.2</td> | 10.0 | 179.9 | 0.001127 | 0.1943 | 761.5 | 2581.9 | 762.6 | 2013.6 | 2776.2 |
| 11.0 184.1 0.001133 0.1774 779.9 2584.5 781.1 1998.5 2779.7 11.5 186.0 0.001136 0.1700 788.6 2585.8 789.9 1991.3 2781.3 12.0 188.0 0.001139 0.1632 797.1 2586.9 798.4 1984.3 2782.7 12.5 189.8 0.001141 0.1569 805.3 2588.0 806.7 1977.4 2784.1 13.0 191.6 0.001144 0.1511 813.2 2589.0 814.7 1970.7 2785.4 14 195.0 0.001149 0.1407 828.5 2590.8 830.1 1957.7 2787.8 15 198.3 0.001154 0.1317 842.9 2592.4 844.7 1945.2 2789.9 16 201.4 0.001159 0.1237 856.7 2593.8 858.6 1933.2 2791.7 17 204.3 0.001163 0.1166 869.9 2595.1 871.8 1921.5 <td>10.5</td> <td>182.0</td> <td>0.001130</td> <td>0.1855</td> <td>770.8</td> <td>2583.3</td> <td>772.0</td> <td>2005.9</td> <td>2778.0</td> | 10.5 | 182.0 | 0.001130 | 0.1855 | 770.8 | 2583.3 | 772.0 | 2005.9 | 2778.0 |
| 11.5 186.0 0.001136 0.1700 788.6 2585.8 789.9 1991.3 2781.3 12.0 188.0 0.001139 0.1632 797.1 2586.9 798.4 1984.3 2782.7 12.5 189.8 0.001141 0.1569 805.3 2588.0 806.7 1977.4 2784.1 13.0 191.6 0.001144 0.1511 813.2 2589.0 814.7 1970.7 2785.4 14 195.0 0.001149 0.1407 828.5 2590.8 830.1 1957.7 2787.8 15 198.3 0.001159 0.1237 856.7 2593.8 858.6 1933.2 2791.7 16 201.4 0.001163 0.1166 869.9 2595.1 871.8 1921.5 2793.4 18 207.1 0.001168 0.1103 882.5 2596.3 884.6 1910.3 2794.8 19 209.8 0.001172 0.1047 894.6 2597.3 896.8 1899.3 | | 184.1 | | | | | | | |
| 12.0 188.0 0.001139 0.1632 797.1 2586.9 798.4 1984.3 2782.7 12.5 189.8 0.001141 0.1569 805.3 2588.0 806.7 1977.4 2784.1 13.0 191.6 0.001144 0.1511 813.2 2589.0 814.7 1970.7 2785.4 14 195.0 0.001149 0.1407 828.5 2590.8 830.1 1957.7 2787.8 15 198.3 0.001154 0.1317 842.9 2592.4 844.7 1945.2 2789.9 16 201.4 0.001159 0.1237 856.7 2593.8 858.6 1933.2 2791.7 17 204.3 0.001163 0.1166 869.9 2595.1 871.8 1921.5 2793.4 18 207.1 0.001168 0.1103 882.5 2596.3 884.6 1910.3 2794.8 19 209.8 0.001177 0.0095 906.2 2598.2 908.6 1888.6 | | | 0.001136 | | | | | | |
| 12.5 189.8 0.001141 0.1569 805.3 2588.0 806.7 1977.4 2784.1 13.0 191.6 0.001144 0.1511 813.2 2589.0 814.7 1970.7 2785.4 14 195.0 0.001149 0.1407 828.5 2590.8 830.1 1957.7 2787.8 15 198.3 0.001154 0.1317 842.9 2592.4 844.7 1945.2 2789.9 16 201.4 0.001159 0.1237 856.7 2593.8 858.6 1933.2 2791.7 17 204.3 0.001163 0.1166 869.9 2595.1 871.8 1921.5 2793.4 18 207.1 0.001168 0.1103 882.5 2596.3 884.6 1910.3 2794.8 19 209.8 0.001177 0.1047 894.6 2597.3 896.8 1899.3 2796.1 20 212.4 0.001181 0.0949 917.5 2598.2 908.6 1888.6 | | | 0.001139 | | | | | | |
| 13.0 191.6 0.001144 0.1511 813.2 2589.0 814.7 1970.7 2785.4 14 195.0 0.001149 0.1407 828.5 2590.8 830.1 1957.7 2787.8 15 198.3 0.001154 0.1317 842.9 2592.4 844.7 1945.2 2789.9 16 201.4 0.001159 0.1237 856.7 2593.8 858.6 1933.2 2791.7 17 204.3 0.001163 0.1166 869.9 2595.1 871.8 1921.5 2793.4 18 207.1 0.001168 0.1103 882.5 2596.3 884.6 1910.3 2794.8 19 209.8 0.001172 0.1047 894.6 2597.3 896.8 1899.3 2796.1 20 212.4 0.001181 0.0995 906.2 2598.2 908.6 1888.6 2797.2 21 214.9 0.001181 0.0949 917.5 2598.9 920.0 1878.2 | | | 0.001141 | 0.1569 | 805.3 | 2588.0 | | | |
| 15 198.3 0.001154 0.1317 842.9 2592.4 844.7 1945.2 2789.9 16 201.4 0.001159 0.1237 856.7 2593.8 858.6 1933.2 2791.7 17 204.3 0.001163 0.1166 869.9 2595.1 871.8 1921.5 2793.4 18 207.1 0.001168 0.1103 882.5 2596.3 884.6 1910.3 2794.8 19 209.8 0.001172 0.1047 894.6 2597.3 896.8 1899.3 2796.1 20 212.4 0.001177 0.0995 906.2 2598.2 908.6 1888.6 2797.2 21 214.9 0.001181 0.0949 917.5 2598.9 920.0 1878.2 2798.2 22 217.2 0.001185 0.0907 928.3 2599.6 931.0 1868.1 2797.2 23 219.6 0.001189 0.0868 938.9 2600.2 941.6 1858.2 | | | 0.001144 | 0.1511 | | | | | |
| 15 198.3 0.001154 0.1317 842.9 2592.4 844.7 1945.2 2789.9 16 201.4 0.001159 0.1237 856.7 2593.8 858.6 1933.2 2791.7 17 204.3 0.001163 0.1166 869.9 2595.1 871.8 1921.5 2793.4 18 207.1 0.001168 0.1103 882.5 2596.3 884.6 1910.3 2794.8 19 209.8 0.001172 0.1047 894.6 2597.3 896.8 1899.3 2796.1 20 212.4 0.001177 0.0995 906.2 2598.2 908.6 1888.6 2797.2 21 214.9 0.001181 0.0949 917.5 2598.9 920.0 1878.2 2798.2 22 217.2 0.001185 0.0907 928.3 2599.6 931.0 1868.1 2797.2 23 219.6 0.001189 0.0868 938.9 2600.2 941.6 1858.2 | 14 | 195.0 | 0.001149 | 0.1407 | 828.5 | 2590.8 | 830.1 | 1957.7 | 2787.8 |
| 17 204.3 0.001163 0.1166 869.9 2595.1 871.8 1921.5 2793.4 18 207.1 0.001168 0.1103 882.5 2596.3 884.6 1910.3 2794.8 19 209.8 0.001172 0.1047 894.6 2597.3 896.8 1899.3 2796.1 20 212.4 0.001177 0.0995 906.2 2598.2 908.6 1888.6 2797.2 21 214.9 0.001181 0.0949 917.5 2598.9 920.0 1878.2 2798.2 22 217.2 0.001185 0.0907 928.3 2599.6 931.0 1868.1 2799.1 23 219.6 0.001189 0.0868 938.9 2600.2 941.6 1858.2 2799.8 24 221.8 0.001193 0.0832 949.1 2600.7 951.9 1848.5 2800.4 25 223.9 0.001197 0.0799 959.0 2601.2 962.0 1839.0 | | 198.3 | 0.001154 | | | 2592.4 | | 1945.2 | |
| 17 204.3 0.001163 0.1166 869.9 2595.1 871.8 1921.5 2793.4 18 207.1 0.001168 0.1103 882.5 2596.3 884.6 1910.3 2794.8 19 209.8 0.001172 0.1047 894.6 2597.3 896.8 1899.3 2796.1 20 212.4 0.001177 0.0995 906.2 2598.2 908.6 1888.6 2797.2 21 214.9 0.001181 0.0949 917.5 2598.9 920.0 1878.2 2798.2 22 217.2 0.001185 0.0907 928.3 2599.6 931.0 1868.1 2799.1 23 219.6 0.001189 0.0868 938.9 2600.2 941.6 1858.2 2799.8 24 221.8 0.001193 0.0832 949.1 2600.7 951.9 1848.5 2800.4 25 223.9 0.001197 0.0799 959.0 2601.2 962.0 1839.0 | 16 | 201.4 | 0.001159 | 0.1237 | 856.7 | 2593.8 | 858.6 | 1933.2 | 2791.7 |
| 19 209.8 0.001172 0.1047 894.6 2597.3 896.8 1899.3 2796.1 20 212.4 0.001177 0.0995 906.2 2598.2 908.6 1888.6 2797.2 21 214.9 0.001181 0.0949 917.5 2598.9 920.0 1878.2 2798.2 22 217.2 0.001185 0.0907 928.3 2599.6 931.0 1868.1 2799.1 23 219.6 0.001189 0.0868 938.9 2600.2 941.6 1858.2 2799.8 24 221.8 0.001193 0.0832 949.1 2600.7 951.9 1848.5 2800.4 25 223.9 0.001197 0.0799 959.0 2601.2 962.0 1839.0 2800.9 26 226.0 0.001201 0.0769 968.6 2601.5 971.7 1829.6 2801.4 27 228.1 0.001205 0.0740 978.0 2601.8 981.2 1820.5 | | | | | | | | | |
| 20 212.4 0.001177 0.0995 906.2 2598.2 908.6 1888.6 2797.2 21 214.9 0.001181 0.0949 917.5 2598.9 920.0 1878.2 2798.2 22 217.2 0.001185 0.0907 928.3 2599.6 931.0 1868.1 2799.1 23 219.6 0.001189 0.0868 938.9 2600.2 941.6 1858.2 2799.8 24 221.8 0.001193 0.0832 949.1 2600.7 951.9 1848.5 2800.4 25 223.9 0.001197 0.0799 959.0 2601.2 962.0 1839.0 2800.9 26 226.0 0.001201 0.0769 968.6 2601.5 971.7 1829.6 2801.4 27 228.1 0.001205 0.0740 978.0 2601.8 981.2 1820.5 2801.7 28 230.0 0.001209 0.0714 987.1 2602.1 990.5 1811.5 | 18 | 207.1 | 0.001168 | 0.1103 | 882.5 | 2596.3 | 884.6 | 1910.3 | 2794.8 |
| 21 214.9 0.001181 0.0949 917.5 2598.9 920.0 1878.2 2798.2 22 217.2 0.001185 0.0907 928.3 2599.6 931.0 1868.1 2799.1 23 219.6 0.001189 0.0868 938.9 2600.2 941.6 1858.2 2799.8 24 221.8 0.001193 0.0832 949.1 2600.7 951.9 1848.5 2800.4 25 223.9 0.001197 0.0799 959.0 2601.2 962.0 1839.0 2800.9 26 226.0 0.001201 0.0769 968.6 2601.5 971.7 1829.6 2801.4 27 228.1 0.001205 0.0740 978.0 2601.8 981.2 1820.5 2801.7 28 230.0 0.001209 0.0714 987.1 2602.1 990.5 1811.5 2802.0 29 232.0 0.001213 0.0689 996.0 2602.3 999.5 1802.6 2802.2 30 233.8 0.001216 0.0666 1004.7 | 19 | 209.8 | 0.001172 | 0.1047 | 894.6 | 2597.3 | 896.8 | 1899.3 | 2796.1 |
| 22 217.2 0.001185 0.0907 928.3 2599.6 931.0 1868.1 2799.1 23 219.6 0.001189 0.0868 938.9 2600.2 941.6 1858.2 2799.8 24 221.8 0.001193 0.0832 949.1 2600.7 951.9 1848.5 2800.4 25 223.9 0.001197 0.0799 959.0 2601.2 962.0 1839.0 2800.9 26 226.0 0.001201 0.0769 968.6 2601.5 971.7 1829.6 2801.4 27 228.1 0.001205 0.0740 978.0 2601.8 981.2 1820.5 2801.7 28 230.0 0.001209 0.0714 987.1 2602.1 990.5 1811.5 2802.0 29 232.0 0.001213 0.0689 996.0 2602.3 999.5 1802.6 2802.2 30 233.8 0.001216 0.0666 1004.7 2602.4 1008.4 1793.9 2802.3 34 240.9 0.001231 0.0587 1037.6 <t< td=""><td>20</td><td>212.4</td><td>0.001177</td><td>0.0995</td><td>906.2</td><td>2598.2</td><td>908.6</td><td>1888.6</td><td>2797.2</td></t<> | 20 | 212.4 | 0.001177 | 0.0995 | 906.2 | 2598.2 | 908.6 | 1888.6 | 2797.2 |
| 23 219.6 0.001189 0.0868 938.9 2600.2 941.6 1858.2 2799.8 24 221.8 0.001193 0.0832 949.1 2600.7 951.9 1848.5 2800.4 25 223.9 0.001197 0.0799 959.0 2601.2 962.0 1839.0 2800.9 26 226.0 0.001201 0.0769 968.6 2601.5 971.7 1829.6 2801.4 27 228.1 0.001205 0.0740 978.0 2601.8 981.2 1820.5 2801.7 28 230.0 0.001209 0.0714 987.1 2602.1 990.5 1811.5 2802.0 29 232.0 0.001213 0.0689 996.0 2602.3 999.5 1802.6 2802.2 30 233.8 0.001216 0.0666 1004.7 2602.4 1008.4 1793.9 2802.3 32 237.4 0.001224 0.0624 1021.5 2602.5 1025.4 1776.9 | 21 | 214.9 | 0.001181 | 0.0949 | 917.5 | 2598.9 | 920.0 | 1878.2 | 2798.2 |
| 24 221.8 0.001193 0.0832 949.1 2600.7 951.9 1848.5 2800.4 25 223.9 0.001197 0.0799 959.0 2601.2 962.0 1839.0 2800.9 26 226.0 0.001201 0.0769 968.6 2601.5 971.7 1829.6 2801.4 27 228.1 0.001205 0.0740 978.0 2601.8 981.2 1820.5 2801.7 28 230.0 0.001209 0.0714 987.1 2602.1 990.5 1811.5 2802.0 29 232.0 0.001213 0.0689 996.0 2602.3 999.5 1802.6 2802.2 30 233.8 0.001216 0.0666 1004.7 2602.4 1008.4 1793.9 2802.3 32 237.4 0.001224 0.0624 1021.5 2602.5 1025.4 1776.9 2802.3 34 240.9 0.001231 0.0587 1037.6 2602.5 1041.8 1760.3 2802.1 36 244.2 0.001238 0.0554 1053.1 | 22 | 217.2 | 0.001185 | 0.0907 | 928.3 | 2599.6 | 931.0 | 1868.1 | 2799.1 |
| 25 223.9 0.001197 0.0799 959.0 2601.2 962.0 1839.0 2800.9 26 226.0 0.001201 0.0769 968.6 2601.5 971.7 1829.6 2801.4 27 228.1 0.001205 0.0740 978.0 2601.8 981.2 1820.5 2801.7 28 230.0 0.001209 0.0714 987.1 2602.1 990.5 1811.5 2802.0 29 232.0 0.001213 0.0689 996.0 2602.3 999.5 1802.6 2802.2 30 233.8 0.001216 0.0666 1004.7 2602.4 1008.4 1793.9 2802.3 32 237.4 0.001224 0.0624 1021.5 2602.5 1025.4 1776.9 2802.3 34 240.9 0.001231 0.0587 1037.6 2602.5 1041.8 1760.3 2802.1 36 244.2 0.001238 0.0554 1053.1 2602.2 1057.6 1744.2 2801.7 | 23 | 219.6 | 0.001189 | 0.0868 | 938.9 | 2600.2 | 941.6 | 1858.2 | 2799.8 |
| 26 226.0 0.001201 0.0769 968.6 2601.5 971.7 1829.6 2801.4 27 228.1 0.001205 0.0740 978.0 2601.8 981.2 1820.5 2801.7 28 230.0 0.001209 0.0714 987.1 2602.1 990.5 1811.5 2802.0 29 232.0 0.001213 0.0689 996.0 2602.3 999.5 1802.6 2802.2 30 233.8 0.001216 0.0666 1004.7 2602.4 1008.4 1793.9 2802.3 32 237.4 0.001224 0.0624 1021.5 2602.5 1025.4 1776.9 2802.3 34 240.9 0.001231 0.0587 1037.6 2602.5 1041.8 1760.3 2802.1 36 244.2 0.001238 0.0554 1053.1 2602.2 1057.6 1744.2 2801.7 | 24 | 221.8 | 0.001193 | 0.0832 | 949.1 | 2600.7 | 951.9 | 1848.5 | 2800.4 |
| 27 228.1 0.001205 0.0740 978.0 2601.8 981.2 1820.5 2801.7 28 230.0 0.001209 0.0714 987.1 2602.1 990.5 1811.5 2802.0 29 232.0 0.001213 0.0689 996.0 2602.3 999.5 1802.6 2802.2 30 233.8 0.001216 0.0666 1004.7 2602.4 1008.4 1793.9 2802.3 32 237.4 0.001224 0.0624 1021.5 2602.5 1025.4 1776.9 2802.3 34 240.9 0.001231 0.0587 1037.6 2602.5 1041.8 1760.3 2802.1 36 244.2 0.001238 0.0554 1053.1 2602.2 1057.6 1744.2 2801.7 | 25 | 223.9 | 0.001197 | 0.0799 | 959.0 | 2601.2 | 962.0 | 1839.0 | 2800.9 |
| 28 230.0 0.001209 0.0714 987.1 2602.1 990.5 1811.5 2802.0 29 232.0 0.001213 0.0689 996.0 2602.3 999.5 1802.6 2802.2 30 233.8 0.001216 0.0666 1004.7 2602.4 1008.4 1793.9 2802.3 32 237.4 0.001224 0.0624 1021.5 2602.5 1025.4 1776.9 2802.3 34 240.9 0.001231 0.0587 1037.6 2602.5 1041.8 1760.3 2802.1 36 244.2 0.001238 0.0554 1053.1 2602.2 1057.6 1744.2 2801.7 | 26 | 226.0 | 0.001201 | 0.0769 | 968.6 | 2601.5 | 971.7 | 1829.6 | 2801.4 |
| 29 232.0 0.001213 0.0689 996.0 2602.3 999.5 1802.6 2802.2 30 233.8 0.001216 0.0666 1004.7 2602.4 1008.4 1793.9 2802.3 32 237.4 0.001224 0.0624 1021.5 2602.5 1025.4 1776.9 2802.3 34 240.9 0.001231 0.0587 1037.6 2602.5 1041.8 1760.3 2802.1 36 244.2 0.001238 0.0554 1053.1 2602.2 1057.6 1744.2 2801.7 | 27 | 228.1 | 0.001205 | 0.0740 | 978.0 | 2601.8 | 981.2 | 1820.5 | 2801.7 |
| 30 233.8 0.001216 0.0666 1004.7 2602.4 1008.4 1793.9 2802.3 32 237.4 0.001224 0.0624 1021.5 2602.5 1025.4 1776.9 2802.3 34 240.9 0.001231 0.0587 1037.6 2602.5 1041.8 1760.3 2802.1 36 244.2 0.001238 0.0554 1053.1 2602.2 1057.6 1744.2 2801.7 | 28 | 230.0 | 0.001209 | 0.0714 | 987.1 | 2602.1 | 990.5 | 1811.5 | 2802.0 |
| 32 237.4 0.001224 0.0624 1021.5 2602.5 1025.4 1776.9 2802.3 34 240.9 0.001231 0.0587 1037.6 2602.5 1041.8 1760.3 2802.1 36 244.2 0.001238 0.0554 1053.1 2602.2 1057.6 1744.2 2801.7 | 29 | 232.0 | 0.001213 | 0.0689 | 996.0 | 2602.3 | 999.5 | 1802.6 | 2802.2 |
| 34 240.9 0.001231 0.0587 1037.6 2602.5 1041.8 1760.3 2802.1 36 244.2 0.001238 0.0554 1053.1 2602.2 1057.6 1744.2 2801.7 | 30 | 233.8 | 0.001216 | 0.0666 | 1004.7 | 2602.4 | 1008.4 | 1793.9 | 2802.3 |
| 36 244.2 0.001238 0.0554 1053.1 2602.2 1057.6 1744.2 2801.7 | | | 0.001224 | 0.0624 | 1021.5 | 2602.5 | 1025.4 | 1776.9 | |
| | | | 0.001231 | 0.0587 | 1037.6 | | 1041.8 | | |
| 38 247.3 0.001245 0.0524 1068.0 2601.9 1072.7 1728.4 2801.1 | 36 | 244.2 | 0.001238 | 0.0554 | 1053.1 | 2602.2 | 1057.6 | 1744.2 | 2801.7 |
| | 38 | 247.3 | 0.001245 | 0.0524 | 1068.0 | 2601.9 | 1072.7 | 1728.4 | 2801.1 |

(continued)

Table B.6 (Continued)

| P(bar) | | $\hat{V}(m^3/kg)$ | | $\hat{U}(\mathrm{kJ/kg})$ | | $\hat{H}(\mathrm{kJ/kg})$ | | |
|--------|-------|-------------------|---------|---------------------------|--------|---------------------------|-------------|--------|
| | T(°C) | Water | Steam | Water | Steam | Water | Evaporation | Steam |
| 40 | 250.3 | 0.001252 | 0.0497 | 1082.4 | 2601.3 | 1087.4 | 1712.9 | 2800.3 |
| 42 | 253.2 | 0.001259 | 0.0473 | 1096.3 | 2600.7 | 1101.6 | 1697.8 | 2799.4 |
| 44 | 256.0 | 0.001266 | 0.0451 | 1109.8 | 2599.9 | 1115.4 | 1682.9 | 2798.3 |
| 46 | 258.8 | 0.001272 | 0.0430 | 1122.9 | 2599.1 | 1128.8 | 1668.3 | 2797.1 |
| 48 | 261.4 | 0.001279 | 0.0412 | 1135.6 | 2598.1 | 1141.8 | 1653.9 | 2795.7 |
| 50 | 263.9 | 0.001286 | 0.0394 | 1148.0 | 2597.0 | 1154.5 | 1639.7 | 2794.2 |
| 52 | 266.4 | 0.001292 | 0.0378 | 1160.1 | 2595.9 | 1166.8 | 1625.7 | 2792.6 |
| 54 | 268.8 | 0.001299 | 0.0363 | 1171.9 | 2594.6 | 1178.9 | 1611.9 | 2790.8 |
| 56 | 271.1 | 0.001306 | 0.0349 | 1183.5 | 2593.3 | 1190.8 | 1598.2 | 2789.0 |
| 58 | 273.3 | 0.001312 | 0.0337 | 1194.7 | 2591.9 | 1202.3 | 1584.7 | 2787.0 |
| 60 | 275.6 | 0.001319 | 0.0324 | 1205.8 | 2590.4 | 1213.7 | 1571.3 | 2785.0 |
| 62 | 277.7 | 0.001325 | 0.0313 | 1216.6 | 2588.8 | 1224.8 | 1558.0 | 2782.9 |
| 64 | 279.8 | 0.001332 | 0.0302 | 1227.2 | 2587.2 | 1235.7 | 1544.9 | 2780.6 |
| 66 | 281.8 | 0.001338 | 0.0292 | 1237.6 | 2585.5 | 1246.5 | 1531.9 | 2778.3 |
| 68 | 283.8 | 0.001345 | 0.0283 | 1247.9 | 2583.7 | 1257.0 | 1518.9 | 2775.9 |
| 70 | 285.8 | 0.001351 | 0.0274 | 1258.0 | 2581.8 | 1267.4 | 1506.0 | 2773.5 |
| 72 | 287.7 | 0.001358 | 0.0265 | 1267.9 | 2579.9 | 1277.6 | 1493.3 | 2770.9 |
| 74 | 289.6 | 0.001364 | 0.0257 | 1277.6 | 2578.0 | 1287.7 | 1480.5 | 2768.3 |
| 76 | 291.4 | 0.001371 | 0.0249 | 1287.2 | 2575.9 | 1297.6 | 1467.9 | 2765.5 |
| 78 | 293.2 | 0.001378 | 0.0242 | 1296.7 | 2573.8 | 1307.4 | 1455.3 | 2762.8 |
| 80 | 295.0 | 0.001384 | 0.0235 | 1306.0 | 2571.7 | 1317.1 | 1442.8 | 2759.9 |
| 82 | 296.7 | 0.001391 | 0.0229 | 1315.2 | 2569.5 | 1326.6 | 1430.3 | 2757.0 |
| 84 | 298.4 | 0.001398 | 0.0222 | 1324.3 | 2567.2 | 1336.1 | 1417.9 | 2754.0 |
| 86 | 300.1 | 0.001404 | 0.0216 | 1333.3 | 2564.9 | 1345.4 | 1405.5 | 2750.9 |
| 88 | 301.7 | 0.001411 | 0.0210 | 1342.2 | 2562.6 | 1354.6 | 1393.2 | 2747.8 |
| 90 | 303.3 | 0.001418 | 0.02050 | 1351.0 | 2560.1 | 1363.7 | 1380.9 | 2744.6 |
| 92 | 304.9 | 0.001425 | 0.01996 | 1359.7 | 2557.7 | 1372.8 | 1368.6 | 2741.4 |
| 94 | 306.4 | 0.001432 | 0.01945 | 1368.2 | 2555.2 | 1381.7 | 1356.3 | 2738.0 |

| 96 | 308.0 | 0.001439 | 0.01897 | 1376.7 | 2552.6 | 1390.6 | 1344.1 | 2734.7 |
|------------------|--------|----------|---------|--------|--------|--------|--------|--------|
| 98 | 309.5 | 0.001446 | 0.01849 | 1385.2 | 2550.0 | 1399.3 | 1331.9 | 2731.2 |
| 100 | 311.0 | 0.001453 | 0.01804 | 1393.5 | 2547.3 | 1408.0 | 1319.7 | 2727.7 |
| 105 | 314.6 | 0.001470 | 0.01698 | 1414.1 | 2540.4 | 1429.5 | 1289.2 | 2718.7 |
| 110 | 318.0 | 0.001489 | 0.01601 | 1434.2 | 2533.2 | 1450.6 | 1258.7 | 2709.3 |
| 115 | 321.4 | 0.001507 | 0.01511 | 1454.0 | 2525.7 | 1471.3 | 1228.2 | 2699.5 |
| 120 | 324.6 | 0.001527 | 0.01428 | 1473.4 | 2517.8 | 1491.8 | 1197.4 | 2689.2 |
| 125 | 327.8 | 0.001547 | 0.01351 | 1492.7 | 2509.4 | 1512.0 | 1166.4 | 2678.4 |
| 130 | 330.8 | 0.001567 | 0.01280 | 1511.6 | 2500.6 | 1532.0 | 1135.0 | 2667.0 |
| 135 | 333.8 | 0.001588 | 0.01213 | 1530.4 | 2491.3 | 1551.9 | 1103.1 | 2655.0 |
| 140 | 336.6 | 0.001611 | 0.01150 | 1549.1 | 2481.4 | 1571.6 | 1070.7 | 2642.4 |
| 145 | 339.4 | 0.001634 | 0.01090 | 1567.5 | 2471.0 | 1591.3 | 1037.7 | 2629.1 |
| 150 | 342.1 | 0.001658 | 0.01034 | 1586.1 | 2459.9 | 1611.0 | 1004.0 | 2615.0 |
| 155 | 344.8 | 0.001683 | 0.00981 | 1604.6 | 2448.2 | 1630.7 | 969.6 | 2600.3 |
| 160 | 347.3 | 0.001710 | 0.00931 | 1623.2 | 2436.0 | 1650.5 | 934.3 | 2584.9 |
| 165 | 349.8 | 0.001739 | 0.00883 | 1641.8 | 2423.1 | 1670.5 | 898.3 | 2568.8 |
| 170 | 352.3 | 0.001770 | 0.00837 | 1661.6 | 2409.3 | 1691.7 | 859.9 | 2551.6 |
| 175 | 354.6 | 0.001803 | 0.00793 | 1681.8 | 2394.6 | 1713.3 | 820.0 | 2533.3 |
| 180 | 357.0 | 0.001840 | 0.00750 | 1701.7 | 2378.9 | 1734.8 | 779.1 | 2513.9 |
| 185 | 359.2 | 0.001881 | 0.00708 | 1721.7 | 2362.1 | 1756.5 | 736.6 | 2493.1 |
| 190 | 361.4 | 0.001926 | 0.00668 | 1742.1 | 2343.8 | 1778.7 | 692.0 | 2470.6 |
| 195 | 363.6 | 0.001977 | 0.00628 | 1763.2 | 2323.6 | 1801.8 | 644.2 | 2446.0 |
| 200 | 365.7 | 0.00204 | 0.00588 | 1785.7 | 2300.8 | 1826.5 | 591.9 | 2418.4 |
| 205 | 367.8 | 0.00211 | 0.00546 | 1810.7 | 2274.4 | 1853.9 | 532.5 | 2386.4 |
| 210 | 369.8 | 0.00220 | 0.00502 | 1840.0 | 2242.1 | 1886.3 | 461.3 | 2347.6 |
| 215 | 371.8 | 0.00234 | 0.00451 | 1878.6 | 2198.1 | 1928.9 | 366.2 | 2295.2 |
| 220 | 373.7 | 0.00267 | 0.00373 | 1952 | 2114 | 2011 | 185 | 2196 |
| 221.2 | 374.15 | 0.00317 | 0.00317 | 2038 | 2038 | 2108 | 0 | 2108 |
| (Critical point) | | | | | | | | |
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