P(bar)		Sat'd	Sat'd	Temperatur		100	150	200	250	200	250
(T _{sat.} °C)		Water	Steam	50	75	100	150	200	250	300	350
0.0 (—)	\hat{H} \hat{U} \hat{V}	_ _ _	_ _ _	2595 2446 —	2642 2481 —	2689 2517 —	2784 2589 —	2880 2662 —	2978 2736	3077 2812	3177 2890 —
0.1 (45.8)	\hat{H} \hat{U} \hat{V}	191.8 191.8 0.00101	2584.8 2438.0 14.7	2593 2444 14.8	2640 2480 16.0	2688 2516 17.2	2783 2588 19.5	2880 2661 21.8	2977 2736 24.2	3077 2812 26.5	3177 2890 28.7
0.5 (81.3)	Ĥ Û Ŷ	340.6 340.6 0.00103	2646.0 2484.0 3.24	209.3 209.2 0.00101	313.9 313.9 0.00103	2683 2512 3.41	2780 2586 3.89	2878 2660 4.35	2979 2735 4.83	3076 2811 5.29	3177 2889 5.75
1.0 (99.6)	\hat{H} \hat{U} \hat{V}	417.5 417.5 0.00104	2675.4 2506.1 1.69	209.3 209.2 0.00101	314.0 313.9 0.00103	2676 2507 1.69	2776 2583 1.94	2875 2658 2.17	2975 2734 2.40	3074 2811 2.64	3176 2889 2.87
5.0 (151.8)	\hat{H} \hat{U} \hat{V}	640.1 639.6 0.00109	2747.5 2560.2 0.375	209.7 209.2 0.00101	314.3 313.8 0.00103	419.4 418.8 0.00104	632.2 631.6 0.00109	2855 2643 0.425	2961 2724 0.474	3065 2803 0.522	3168 2883 0.571
10 (179.9)	\hat{H} \hat{U} \hat{V}	762.6 761.5 0.00113	2776.2 2582 0.194	210.1 209.1 0.00101	314.7 313.7 0.00103	419.7 418.7 0.00104	632.5 631.4 0.00109	2827 2621 0.206	2943 2710 0.233	3052 2794 0.258	3159 2876 0.282
20 (212.4)	\hat{H} \hat{U} \hat{V}	908.6 906.2 0.00118	2797.2 2598.2 0.09950	211.0 209.0 0.00101	315.5 313.5 0.00102	420.5 418.4 0.00104	633.1 603.9 0.00109	852.6 850.2 0.00116	2902 2679 0.111	3025 2774 0.125	3139 2862 0.139
40 (250.3)	\hat{H} \hat{U} \hat{V}	1087.4 1082.4 0.00125	2800.3 2601.3 0.04975	212.7 208.6 0.00101	317.1 313.0 0.00102	422.0 417.8 0.00104	634.3 630.0 0.00109	853.4 848.8 0.00115	1085.8 1080.8 0.00125	2962 2727 0.0588	3095 2829 0.0665
60 (275.6)	\hat{H} \hat{U} \hat{V}	1213.7 1205.8 0.00132	2785.0 2590.4 0.0325	214.4 208.3 0.00101	318.7 312.6 0.00103	423.5 417.3 0.00104	635.6 629.1 0.00109	854.2 847.3 0.00115	1085.8 1078.3 0.00125	2885 2668 0.0361	3046 2792 0.0422
80 (295.0)	\hat{H} \hat{U} \hat{V}	1317.1 1306.0 0.00139	2759.9 2571.7 0.0235	216.1 208.1 0.00101	320.3 312.3 0.00102	425.0 416.7 0.00104	636.8 628.2 0.00109	855.1 845.9 0.00115	1085.8 1075.8 0.00124	2787 2593 0.0243	2990 2750 0.0299
100 (311.0)	\hat{H} \hat{U} \hat{V}	1408.0 1393.5 0.00145	2727.7 2547.3 0.0181	217.8 207.8 0.00101	322.9 311.7 0.00102	426.5 416.1 0.00104	638.1 627.3 0.00109	855.9 844.4 0.00115	1085.8 1073.4 0.00124	1343.4 1329.4 0.00140	2926 2702 0.0224
150 (342.1)	\hat{H} \hat{U} \hat{V}	1611.0 1586.1 0.00166	2615.0 2459.9 0.0103	222.1 207.0 0.00101	326.0 310.7 0.00102	430.3 414.7 0.00104	641.3 625.0 0.00108	858.1 841.0 0.00114	1086.2 1067.7 0.00123	1338.2 1317.6 0.00138	2695 2523 0.0115
200 (365.7)	\hat{H} \hat{U} \hat{V}	1826.5 1785.7 0.00204	2418.4 2300.8 0.005875	226.4 206.3 0.00100	330.0 309.7 0.00102	434.0 413.2 0.00103	644.5 622.9 0.00108	860.4 837.7 0.00114	1086.7 1062.2 0.00122	1334.3 1307.1 0.00136	1647.1 1613.7 0.00167
$221.2(P_c) 374.15)(T_c)$	\hat{H} \hat{U} \hat{V}	2108 2037.8 0.00317	2108 2037.8 0.00317	228.2 206.0 0.00100	331.7 309.2 0.00102	435.7 412.8 0.00103	645.8 622.0 0.00108	861.4 836.3 0.00114	1087.0 1060.0 0.00122	1332.8 1302.9 0.00135	1635.5 1600.3 0.00163
250 (—)	\hat{H} \hat{U} \hat{V}	_ _ _	_ _ _	230.7 205.7 0.00100	334.0 308.7 0.00101	437.8 412.1 0.00103	647.7 620.8 0.00108	862.8 834.4 0.00113	1087.5 1057.0 0.00122	1331.1 1297.5 0.00135	1625.0 1585.0 0.00160
300 (—)	\hat{H} \hat{U} \hat{V}	_ _ _	_ _ _	235.0 205.0 0.0009990	338.1 307.7 0.00101	441.6 410.8 0.00103	650.9 618.7 0.00107	865.2 831.3 0.00113	1088.4 1052.1 0.00121	1328.7 1288.7 0.00133	1609.9 1563.3 0.00155
500 (—)	\hat{H} \hat{U} \hat{V}	_ _ _	_ _ _	251.9 202.4 0.0009911	354.2 304.0 0.00100	456.8 405.8 0.00102	664.1 611.0 0.00106	875.4 819.7 0.00111	1093.6 1034.3 0.00119	1323.7 1259.3 0.00129	1576.3 1504.1 0.00144
1000 (—)	\hat{H} \hat{U} \hat{V}	_ _ _	_ _ _	293.9 196.5 0.0009737	394.3 295.7 0.0009852	495.1 395.1 0.001000	698.0 594.4 0.00104	903.5 795.3 0.00108	1113.0 999.0 0.00114	1328.7 1207.1 0.00122	1550.5 1419.0 0.00131

[&]quot;Adapted from R. W. Haywood, *Thermodynamic Tables in SI (Metric) Units*, Cambridge University Press, London, 1968. Water is a liquid in the enclosed region between 50°C and 350°C. $\hat{H}=$ specific enthalpy (kJ/kg), $\hat{U}=$ specific internal energy (kJ/kg), $\hat{V}=$ specific volume (m³/kg). *Note:* kJ/kg × 0.4303 = Btu/lb_m.

(continued)

Table B.7 (Continued)

0.0 Ĥ 3280 3384 3497 3597 3706 3816 3929 4043 (—) Û 2969 3050 3122 3217 3303 3390 3480 3591 0.1 Ĥ 3280 3384 3489 3596 3706 3816 3929 4043 (45.8) Ø 2969 3050 3132 3217 3303 3390 3480 3516 0.5 Ӣ 3279 3383 3489 3596 3705 3816 3929 4043 (81.3) Ø 2969 3049 3132 3216 3302 3390 3480 3571 (81.3) Ø 2269 3049 3132 3216 3302 3390 3480 3570 (9.0) Ø 2968 3049 3132 3216 3302 3390 3470 3570 (5.0) Ø 2968 3049 3132 3216	$P(bar)$ $(T_{sat.}^{\circ}C)$		Temperatu 400	ıre (°C)→ 450	500	550	600	650	700	750
(→) 0 2969 3050 3132 3217 3303 3390 3480 3591 0.1 H 3280 3384 3489 3596 3706 3816 3929 4043 (45.8) U 2969 3050 3132 3217 3303 3390 3480 3571 0.5 H 3279 3383 3489 3596 3705 3816 3029 4043 (81.3) Q 2969 3049 3132 3216 3302 3390 3480 3591 (81.3) Q 2969 3049 3132 3216 3302 3390 3480 3591 (99.6) Ú 2968 3049 3132 3216 3302 3903 3480 402 (99.6) Ú 2964 3045 3128 3213 3300 3388 3477 3569 (151.8) Ú 2964 3045 3128 3213		Ĥ								
0.1 \hat{H} 3280 3384 3489 3596 3706 3816 3929 4043 (4.5.8) Ø 2969 3050 3132 3217 3303 3390 3480 3571 0.5 \hat{H} 221.1 33.3 35.7 38.0 40.3 42.6 44.8 47.2 (81.3) Ø 2969 3049 3132 3216 3302 3390 3480 3571 1.0 \hat{H} 3278 3382 3488 3596 3705 3816 3928 4042 (99.6) Ø 2968 3049 3132 3216 3302 3390 348 4.72 5.0 \hat{H} 3272 3379 3484 3592 3702 3813 3926 4040 (15.8) Ø 2964 3045 3128 3213 3300 3388 3477 3569 5.0 \hat{H} 32264 3371 3478										
$ \begin{pmatrix} (45.8) & 0 & 2969 & 3050 & 3132 & 3217 & 3303 & 3390 & 3480 & 3571 \\ 0.5 & \hat{H} & 3279 & 3383 & 3489 & 3596 & 3705 & 3816 & 3929 & 4043 \\ (81.3) & 0 & 2969 & 3049 & 3132 & 3216 & 3302 & 3390 & 3480 & 3571 \\ 1.0 & \hat{H} & 3278 & 3382 & 3488 & 3596 & 3705 & 3816 & 3928 & 4042 \\ (99.6) & \hat{U} & 2968 & 3049 & 3132 & 3216 & 3302 & 3390 & 3480 & 3571 \\ 1.0 & \hat{H} & 3278 & 3382 & 3488 & 3596 & 3705 & 3816 & 3928 & 4042 \\ (99.6) & \hat{U} & 2968 & 3049 & 3132 & 3216 & 3302 & 3390 & 3479 & 3570 \\ 0.11 & 3.33 & 3.57 & 3.80 & 40.3 & 4.26 & 4.48 & 4.72 \\ 0.15 & \hat{U} & 2068 & 3049 & 3132 & 3216 & 3302 & 3390 & 3479 & 3570 \\ 0.15 & \hat{U} & 3.11 & 3.33 & 3.57 & 3.80 & 40.3 & 4.26 & 4.48 & 4.72 \\ 0.15 & \hat{U} & 2064 & 3045 & 3128 & 3213 & 3300 & 3388 & 3477 & 3569 \\ 0.15 & \hat{U} & 0.617 & 0.664 & 0.711 & 0.758 & 0.804 & 0.850 & 0.897 & 0.943 \\ 0.17 & 0.9 & 2958 & 3041 & 3124 & 3210 & 3296 & 3385 & 3475 & 3567 \\ 0.17 & 0.307 & 0.330 & 0.353 & 0.377 & 0.402 & 0.424 & 0.448 & 0.472 \\ 0.2 & \hat{U} & 3264 & 3371 & 3478 & 3587 & 3667 & 3389 & 3923 & 4088 \\ 0.17 & 0.9 & 2958 & 3041 & 3124 & 3210 & 3296 & 3385 & 3475 & 3567 \\ 0.2 & 0.4 & 3045 & 3134 & 3210 & 3296 & 3385 & 3475 & 3567 \\ 0.2 & 0.4 & 3045 & 3131 & 3478 & 3587 & 3689 & 3802 & 3916 & 4032 \\ 0.2 & 0.4 & 3045 & 3331 & 3445 & 3559 & 3673 & 3788 & 3904 & 4021 \\ 0.2 & 0.4 & 0.151 & 0.163 & 0.175 & 0.188 & 0.200 & 0.211 & 0.223 & 0.235 \\ 0.4 & 0 & 3180 & 3303 & 3422 & 3559 & 3657 & 3774 & 3892 & 4011 \\ 0.2 & 0.0 & 0.4 & 0.0799 & 0.0864 & 0.0926 & 0.0987 & 0.105 & 0.111 & 0.117 \\ 0.6 & \hat{H} & 3180 & 3303 & 3422 & 3559 & 3657 & 3774 & 3892 & 4011 \\ 0.2 & 2.806 & 2.991 & 3083 & 3174 & 3265 & 3357 & 3368 & 3460 & 3554 \\ 0.0 & 0.2 & 2866 & 2.991 & 3083 & 3174 & 3265 & 3357 & 3369 & 3065 & 3759 & 3367 & 3774 & 3892 & 4011 \\ 0.2 & 2.806 & 2.991 & 3083 & 3174 & 3265 & 3357 & 3369 & 3065 & 3759 & 3367 & 3968 & 3969 & 3065 & 3159 & 3252 & 3346 & 3345 & 3466 & 3559 & 6057 & 3774 & 3892 & 4011 \\ 0.0 & \hat{H} & 3100 & 3244 & 3375 & 3500 & 3623 & 3745 & 3867 & 3998 & 3065 & 3377 & 3380 & 3043 & 352$	()			_	_	_	_	_	_	_
(45.8)	0.1	Ĥ	3280	3384	3489	3596	3706	3816	3929	4043
0.5 Ĥ 3279 3383 3489 3596 3705 3816 3929 4043 (81.3) Û 2969 3049 3182 3216 3302 3390 3480 3571 1.0 Й 3278 3382 3488 3596 3705 3816 3928 4042 (99.6) Û 2968 3049 3132 3216 3302 3390 3479 3570 5.0 Й 3121 333 3.57 3.80 403 4.26 4.48 4.72 5.0 Й 3272 3379 3484 3592 3702 3813 3926 4040 (151.8) Û 2964 3045 3128 3213 3300 3383 3477 5569 (151.8) Û 2964 3301 3128 3213 3300 3833 3477 5569 (151.8) Û 2958 3041 3124 3210 <										
$ \begin{pmatrix} (81.3) & \dot{U} & 2969 & 3049 & 3132 & 3216 & 3302 & 3390 & 3480 & 3571 \\ 1.0 & \dot{H} & 3278 & 3382 & 3488 & 3596 & 3705 & 3816 & 3928 & 4042 \\ (99.6) & \dot{U} & 2968 & 3049 & 3132 & 3216 & 3302 & 3390 & 3479 & 3570 \\ \hline (99.6) & \dot{U} & 2968 & 3049 & 3132 & 3216 & 3302 & 3390 & 3479 & 3570 \\ \hline (151.8) & \dot{U} & 2964 & 3045 & 3128 & 3213 & 3300 & 3388 & 3477 & 3560 \\ \hline (151.8) & \dot{U} & 2964 & 3045 & 3128 & 3213 & 3300 & 3388 & 3477 & 3560 \\ \hline (151.8) & \dot{U} & 2964 & 3045 & 3128 & 3213 & 3300 & 3388 & 3477 & 3560 \\ \hline (10) & \dot{H} & 3264 & 3371 & 3478 & 3587 & 3697 & 3809 & 3923 & 4038 \\ \hline (179.9) & \dot{U} & 2958 & 3041 & 3124 & 3210 & 3296 & 3385 & 3475 & 3560 \\ \hline (212.4) & \dot{U} & 2946 & 3031 & 3115 & 3202 & 3290 & 3379 & 3470 & 3562 \\ \hline (212.4) & \dot{U} & 2946 & 3031 & 3115 & 3202 & 3290 & 3379 & 3470 & 3562 \\ \hline (212.4) & \dot{U} & 2946 & 3031 & 3115 & 3202 & 3290 & 3379 & 3470 & 3562 \\ \hline (250.3) & \dot{V} & 0.151 & 0.163 & 0.175 & 0.188 & 0.200 & 0.211 & 0.223 & 0.235 \\ \hline (40) & \dot{H} & 3180 & 3330 & 3422 & 3539 & 3657 & 3788 & 3904 & 4001 \\ \hline (275.6) & \dot{V} & 2966 & 2991 & 3083 & 3174 & 3265 & 3357 & 3451 & 3545 \\ \hline (275.6) & \dot{V} & 2867 & 2969 & 3065 & 3159 & 3252 & 3346 & 3441 & 3557 \\ \hline (295.0) & \dot{V} & 2867 & 2969 & 3065 & 3159 & 3252 & 3346 & 3441 & 3537 \\ \hline (295.0) & \dot{V} & 2867 & 2969 & 3065 & 3159 & 3252 & 3346 & 3441 & 3537 \\ \hline (20) & \dot{V} & 2836 & 2946 & 3047 & 3144 & 3240 & 3335 & 3431 & 3548 \\ \hline (311.0) & \dot{V} & 2836 & 2946 & 3047 & 3144 & 3240 & 3355 & 3467 & 3892 \\ \hline (342.1) & \dot{U} & 2744 & 2883 & 2999 & 3105 & 3207 & 3307 & 3407 & 3604 \\ \hline (342.1) & \dot{U} & 2744 & 2883 & 2999 & 3105 & 3207 & 3307 & 3407 & 3809 \\ \hline (374.15)(r_c) & \dot{V} & 0.0157 & 0.0185 & 0.0208 & 0.0229 & 0.0249 & 0.0267 & 0.0266 & 0.030 \\ \hline (200 & \dot{H} & 2820 & 3664 & 3241 & 3394 & 3356 & 3671 & 3804 & 3928 \\ \hline (365.7) & \dot{U} & 2867 & 2969 & 3065 & 3159 & 3252 & 3346 & 3441 & 3537 \\ \hline (374.15)(r_c) & \dot{U} & 2553 & 2776 & 2922 & 3045 & 3157 & 3265 & 3371 & 3466 \\ \hline (342.1) & \dot{U} & 2744 & 2883 & 2999 & 3105 & 3207 & 3307 & 3407 & 3809 \\ \hline (374$	()									
$ \begin{pmatrix} 81.3 & 0 \\ V & 6.21 & 6.67 & 7.14 & 7.58 & 8.06 & 8.55 & 9.01 \\ 1.0 & \hat{H} & 3278 & 3382 & 3488 & 3596 & 3705 & 3816 & 3928 & 4042 \\ (99.6) & \hat{U} & 2968 & 3049 & 3132 & 3216 & 3302 & 3390 & 3479 & 3570 \\ V & 3.11 & 3.33 & 3.57 & 3.80 & 4.03 & 4.26 & 4.48 & 4.72 \\ 5.0 & \hat{H} & 3272 & 3379 & 3484 & 3592 & 3702 & 3813 & 3926 & 4040 \\ (151.8) & \hat{U} & 2964 & 3045 & 3128 & 3213 & 3300 & 3388 & 3477 & 3560 \\ V & 0.017 & 0.664 & 0.711 & 0.758 & 0.804 & 0.880 & 0.897 & 0.943 \\ 10 & \hat{H} & 3264 & 3371 & 3478 & 3587 & 3697 & 3809 & 3923 & 4038 \\ (179.9) & \hat{U} & 2958 & 3041 & 3124 & 3210 & 3296 & 3385 & 3475 & 3560 \\ V & 0.037 & 0.330 & 0.353 & 0.377 & 0.402 & 0.424 & 0.448 & 0.472 \\ 20 & \hat{H} & 3249 & 3358 & 3467 & 3578 & 3689 & 3802 & 3916 & 4032 \\ (212.4) & \hat{U} & 2946 & 3031 & 3115 & 3202 & 3290 & 3379 & 3470 & 3562 \\ (212.4) & \hat{U} & 2946 & 3031 & 3115 & 3202 & 3290 & 3379 & 3470 & 3562 \\ (212.4) & \hat{U} & 2946 & 3031 & 3415 & 3559 & 3673 & 3788 & 3904 & 4021 \\ (250.3) & \hat{V} & 0.0151 & 0.163 & 0.175 & 0.188 & 0.200 & 0.211 & 0.223 & 0.235 \\ 40 & \hat{H} & 3216 & 3331 & 3445 & 3559 & 3673 & 3788 & 3904 & 4001 \\ (250.3) & \hat{V} & 2922 & 3011 & 3100 & 3188 & 3278 & 3368 & 3460 & 3554 \\ V & 0.0734 & 0.0799 & 0.0864 & 0.0926 & 0.0987 & 0.105 & 0.111 & 0.117 \\ 60 & \hat{H} & 3180 & 3303 & 3422 & 3539 & 3657 & 3774 & 3892 & 4078 \\ (275.6) & \hat{V} & 2867 & 2969 & 3065 & 3159 & 3252 & 3346 & 3441 & 3537 \\ V & 0.0474 & 0.0521 & 0.0566 & 0.0609 & 0.0652 & 0.0693 & 0.0735 & 0.077 \\ 80 & \hat{H} & 3142 & 3274 & 3399 & 3520 & 3640 & 3759 & 3879 & 3461 & 3545 \\ V & 0.0474 & 0.0521 & 0.0566 & 0.0609 & 0.0652 & 0.0693 & 0.0735 & 0.077 \\ 80 & \hat{H} & 3142 & 3274 & 3399 & 3520 & 3640 & 3759 & 3867 & 3989 \\ (311.0) & \hat{V} & 2867 & 2969 & 3065 & 3159 & 3252 & 3346 & 3441 & 3537 \\ V & 0.0075 & 0.0185 & 0.0208 & 0.0328 & 0.0356 & 0.0438 & 0.0410 & 0.0435 & 0.046 \\ (295.0) & \hat{V} & 2867 & 2969 & 3065 & 3159 & 3252 & 3346 & 3441 & 3537 \\ V & 0.00613 & 0.09174 & 0.0147 & 0.0450 & 0.0483 & 0.0410 & 0.0435 & 0.066 \\ (342.1) & \hat{V} & 2432 & 2775 & 29$	0.5	\hat{H}	3279	3383	3480		3705	3816	3929	4043
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$ \begin{array}{c} \hat{V} \\ 0.617 \\ 0.664 \\ 0.711 \\ 0.758 \\ 0.804 \\ 0.850 \\ 0.897 \\ 0.943 \\ 0.924 \\ 0.448 \\ 0.472 \\ 0.448 \\ 0.472 \\ 0.448 \\ 0.472 \\ 0.448 \\ 0.472 \\ 0.448 \\ 0.472 \\ 0.448 \\ 0.472 \\ 0.424 \\ 0.448 \\ 0.448 \\ 0.472 \\ 0.424 \\ 0.448 \\ 0.448 \\ 0.472 \\ 0.223 \\ 0.235 \\ 0.235 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.0211 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.0211 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.0211 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.0211 \\ 0.0223 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.0211 \\ 0.0223 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.023 \\ 0.024 \\ 0.026 \\ 0.0987 \\ 0.0105 \\ 0.0105 \\ 0.0111 \\ 0.012 \\ 0.011 \\ 0.011 \\ 0.012 \\ 0.011 \\ 0.012 \\ 0.011 \\ 0.012 \\ 0.011 \\ 0.012 \\ 0.011 \\ 0.012 \\ 0.011 \\ 0.012 \\ 0.011 \\ 0.012 \\ 0.011 \\ 0.012 \\ 0.011 \\ 0.012 \\ 0.014 \\ 0.01$										
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(250.3)									
$ \begin{array}{c} (275.6) \begin{array}{c} 0 \\ \\ \hline \\ 0 \\ \hline \end{array} \begin{array}{c} 2896 \\ \hline \\ 0 \\ \hline \end{array} \begin{array}{c} 2991 \\ 0.0521 \\ 0.0566 \\ 0.0609 \\ 0.0652 \\ 0.0609 \\ 0.0652 \\ 0.0609 \\ 0.0652 \\ 0.0693 \\ 0.0735 \\ 0.0775 \\ 0.0693 \\ 0.0735 \\ 0.0777 \\ 0.0775 \\ 0.0775 \\ 0.0775 \\ 0.0847 \\ 0.0344 \\ 0.0382 \\ 0.0417 \\ 0.0450 \\ 0.0417 \\ 0.0450 \\ 0.0417 \\ 0.0450 \\ 0.0483 \\ 0.0515 \\ 0.0483 \\ 0.0515 \\ 0.0547 \\ 0.0574 \\ 0.0515 \\ 0.0547 \\ 0.0577 \\ 0.0577 \\ 0.0157 \\ 0.0157 \\ 0.0157 \\ 0.0264 \\ 0.0298 \\ 0.0328 \\ 0.0328 \\ 0.0328 \\ 0.0328 \\ 0.0356 \\ 0.0383 \\ 0.0410 \\ 0.0483 \\ 0.0515 \\ 0.0416 \\ 0.0483 \\ 0.0515 \\ 0.0547 \\ 0.0547 \\ 0.0515 \\ 0.0547 \\ 0.0574 \\ 0.0515 \\ 0.0547 \\ 0.0574 \\ 0.0264 \\ 0.0298 \\ 0.0328 \\ 0.0328 \\ 0.0356 \\ 0.0383 \\ 0.0410 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0461 \\ 0.0410 \\ 0.0435 \\ 0.0461 \\ 0.0410 \\ 0.0435 \\ 0.0461 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0435 \\ 0.0410 \\ 0.0448 \\ 0.0464 \\ 0.0484 $							0.0987	0.105		0.117
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(275.6)									
$ \begin{array}{c} (295.0) \hat{U} 2867 2969 3065 3159 3252 3346 3441 3537 \\ \hat{V} 0.0344 0.0382 0.0417 0.0450 0.0483 0.0515 0.0547 0.0578 \\ \hline 100 \hat{H} 3100 3244 3375 3500 3623 3745 3867 3989 \\ (311.0) \hat{U} 2836 2946 3047 3144 3240 3335 3431 3528 \\ \hat{V} 0.0264 0.0298 0.0328 0.0356 0.0383 0.0410 0.0435 0.0461 \\ \hline 150 \hat{H} 2975 3160 3311 3448 3580 3708 3835 3962 \\ (342.1) \hat{U} 2744 2883 2999 3105 3207 3307 3407 3507 \\ \hat{V} 0.0157 0.0185 0.0208 0.0229 0.0249 0.0267 0.0286 0.0304 \\ \hline 200 \hat{H} 2820 3064 3241 3394 3536 3671 3804 3935 \\ (365.7) \hat{U} 2622 2810 2946 3063 3172 3278 3382 3485 \\ \hat{V} 0.009950 0.0127 0.0148 0.0166 0.0182 0.197 0.211 0.0222 \\ \hline 221.2(P_c) \hat{H} 2733 3020 3210 3370 3316 3655 3790 3923 \\ (374.15)(T_c) \hat{U} 2553 2776 2922 3045 3157 3265 3371 3476 \\ \hat{V} 0.008157 0.0110 0.0130 0.0147 0.0162 0.0176 0.0190 0.0202 \\ \hline 250 \hat{H} 2582 2954 3166 3337 3490 3633 3772 3908 \\ () \hat{U} 2432 2725 2888 3019 3137 3248 3356 3463 \\ \hat{V} 0.006013 0.009174 0.0111 0.0127 0.0141 0.0143 0.0166 0.0173 \\ \hline 500 \hat{H} 1878 2293 2723 3021 3248 3350 3441 \\ \hat{V} 0.002830 0.006734 0.008680 0.0102 0.0114 0.0126 0.0136 0.0147 \\ \hline 500 \hat{H} 1798 2293 2723 3021 3248 3439 3610 3771 \\ \hline 500 \hat{H} 1798 2293 2723 3021 3248 3439 3610 3771 \\ \hline 500 \hat{H} 1798 2293 2723 3021 3248 3439 3610 3771 \\ \hline 500 \hat{H} 1798 2293 2723 3021 3248 3439 3610 3771 \\ \hline 500 \hat{H} 1798 2293 2723 3021 3248 3439 3610 3771 \\ \hline 500 \hat{H} 1796 2623 2825 2972 3100 3218 3330 3441 \\ \hline \hat{V} 0.001726 0.002491 0.003882 0.005112 0.006112 0.007000 0.007722 0.00841 \\ \hline 500 \hat{H} 1798 2051 2316 2594 2857 3105 3324 3526 \\ \hline 6 0.00772$			0.0474	0.0521	0.0566	0.0609	0.0652	0.0693	0.0735	0.0776
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										4000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(295.0)									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		V	0.0344	0.0382	0.0417	0.0450	0.0483	0.0515	0.0547	0.0578
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	100		3100	3244	3375	3500	3623	3745	3867	3989
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(311.0)									3528
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Û	0.0264	0.0298	0.0328	0.0356	0.0383	0.0410	0.0435	0.0461
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	150	Ĥ	2975	3160	3311	3448	3580	3708	3835	3962
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(342.1)		2744	2883	2999	3105	3207	3307	3407	3507
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Ŷ	0.0157	0.0185	0.0208	0.0229	0.0249	0.0267	0.0286	0.0304
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	200	\hat{H}	2820	3064	3241	3394	3536	3671	3804	3935
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(365.7)			2810	2946	3063			3382	
$ \begin{array}{c} (374.15)(T_c) \dot{\mathcal{U}} 2553 2776 2922 3045 3157 3265 3371 3476 \\ \dot{\hat{V}} 0.008157 0.0110 0.0130 0.0147 0.0162 0.0176 0.0190 0.0202 \\ 250 \dot{\hat{H}} 2582 2954 3166 3337 3490 3633 3772 3908 \\ (-) \dot{\hat{U}} 2432 2725 2888 3019 3137 3248 3356 3463 \\ \dot{\hat{V}} 0.006013 0.009174 0.0111 0.0127 0.0141 0.0143 0.0166 0.0178 \\ 300 \dot{\hat{H}} 2162 2826 3085 3277 3443 3595 3740 3880 \\ (-) \dot{\hat{U}} 2077 2623 2825 2972 3100 3218 3330 3441 \\ \dot{\hat{V}} 0.002830 0.006734 0.008680 0.0102 0.0114 0.0126 0.0136 0.0147 \\ 500 \dot{\hat{H}} 1878 2293 2723 3021 3248 3439 3610 3771 \\ (-) \dot{\hat{U}} 1791 2169 2529 2765 2946 3091 3224 3350 \\ \dot{\hat{V}} 0.001726 0.002491 0.003882 0.005112 0.006112 0.007000 0.007722 0.00841 \\ 1000 \dot{\hat{H}} 1798 2051 2316 2594 2857 3105 3324 3526 \\ (-) \dot{\hat{U}} 1653 1888 2127 2369 2591 2795 2971 3131 \\ \end{array}$		\hat{V}	0.009950	0.0127	0.0148	0.0166	0.0182	0.197	0.211	0.0225
$ \begin{array}{c} (374.15)(T_c) \hat{U} 2553 2776 2922 3045 3157 3265 3371 3476 \\ \hat{V} 0.008157 0.0110 0.0130 0.0147 0.0162 0.0176 0.0190 0.0202 \\ 250 \hat{H} 2582 2954 3166 3337 3490 3633 3772 3908 \\ (-) \hat{U} 2432 2725 2888 3019 3137 3248 3356 3463 \\ \hat{V} 0.006013 0.009174 0.0111 0.0127 0.0141 0.0143 0.0166 0.0178 \\ 300 \hat{H} 2162 2826 3085 3277 3443 3595 3740 3880 \\ (-) \hat{U} 2077 2623 2825 2972 3100 3218 3330 3441 \\ \hat{V} 0.002830 0.006734 0.008680 0.0102 0.0114 0.0126 0.0136 0.0147 \\ 500 \hat{H} 1878 2293 2723 3021 3248 3439 3610 3771 \\ (-) \hat{U} 1791 2169 2529 2765 2946 3091 3224 3350 \\ \hat{V} 0.001726 0.002491 0.003882 0.005112 0.006112 0.007000 0.007722 0.00841 \\ 1000 \hat{H} 1798 2051 2316 2594 2857 3105 3324 3526 \\ (-) \hat{U} 1653 1888 2127 2369 2591 2795 2971 3131 \\ \end{array}$	$221.2(P_c)$	Ĥ	2733	3020	3210	3370	3516	3655	3790	3923
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										3476
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$,,,,,,	\hat{V}	0.008157	0.0110	0.0130	0.0147	0.0162	0.0176	0.0190	0.0202
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	250	Ĥ	2582	2954	3166	3337	3490	3633	3772	3908
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	()			0.009174				0.0143		0.0178
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	300	\hat{H}	2162	2826	3085	3277	3443	3595	3740	3880
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	` /									0.0147
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	500	\hat{H}								
1000 \hat{H} 1798 2051 2316 2594 2857 3105 3324 3526 (—) \hat{U} 1653 1888 2127 2369 2591 2795 2971 3131	()									0.008418
$(-)$ \hat{U} 1653 1888 2127 2369 2591 2795 2971 3131	1000									
$\hat{V}=0.001446=0.001628=0.001893=0.002246=0.002668=0.003106=0.003536=0.003936$	(-)									0.003953