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Supplementary material

SUPPLEMENTARY MATERIAL TO

Apparent molar volumes, V_ϕ^0, of calcium acetate ($Ca(CH_3COO)_2$(aq)) at 273.15 to 353.15 K and pressures up to 100 MPa

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TABLE S-I. Experimental values of density ρ, isothermal compressibility κ_T, isobaric thermal expansibility α_p, difference in isobaric and isochoric heat capacities c_p–c_v, thermal pressure coefficient γ, internal pressure p_{int} of aqueous CaAc solutions

p / MPa	ρ / kg m^{-3}	T / K	m / mol kg^{-1}	$\kappa_T\times10^6$ / MPa^{-1}	$\alpha_p\times10^6$ / K^{-1}	c_p–c_v / J kg^{-1} K^{-1}	γ / MPa K^{-1}	p_{int} / MPa
0.101	1005.54	273.14	0.04918	496.6	–5.3	0.0	–0.0108	–3.0
0.992	1005.98	273.13	0.04918	495.2	–3.0	0.0	–0.0061	–2.7
5.386	1008.10	273.19	0.04918	488.2	9.3	0.0	0.0190	–0.2
10.174	1010.39	273.12	0.04918	481.3	20.7	0.2	0.0431	1.6
20.862	1015.44	273.14	0.04918	466.1	47.6	1.3	0.1021	7.0
30.171	1019.76	273.14	0.04918	454.0	69.8	2.9	0.1537	11.8
40.126	1024.31	273.13	0.04918	441.9	92.5	5.2	0.2093	17.0
50.581	1029.00	273.14	0.04918	430.1	115.6	8.2	0.2688	22.8
60.093	1033.19	273.14	0.04918	420.2	135.8	11.6	0.3231	28.2
70.008	1037.48	273.15	0.04918	410.6	156.2	15.6	0.3804	33.9
80.610	1041.98	273.16	0.04918	401.0	177.3	20.5	0.4421	40.1
90.064	1045.92	273.16	0.04918	393.2	195.4	25.4	0.4971	45.7
99.298	1049.70	273.17	0.04918	386.0	212.8	30.5	0.5513	51.3
0.101	1005.57	277.15	0.04918	485.9	45.1	1.2	0.0929	25.6
0.966	1005.98	277.15	0.04918	484.6	47.2	1.3	0.0973	26.0
5.215	1007.98	277.14	0.04918	478.3	56.8	1.9	0.1188	27.7
10.391	1010.40	277.15	0.04918	470.8	68.6	2.7	0.1458	30.0
20.291	1014.96	277.15	0.04918	457.4	90.2	4.9	0.1973	34.4
29.942	1019.34	277.15	0.04918	445.2	110.5	7.5	0.2481	38.8
40.193	1023.92	277.15	0.04918	433.2	131.2	10.7	0.3027	43.7

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50.498	1028.44	277.15	0.04918	422.0	151.1	14.6	0.3581	48.8
60.166	1032.61	277.15	0.04918	412.2	169.3	18.7	0.4106	53.6
70.392	1036.94	277.15	0.04918	402.6	187.8	23.4	0.4664	58.9
79.921	1040.90	277.15	0.04918	394.3	204.5	28.2	0.5186	63.8
90.002	1045.02	277.15	0.04918	386.1	221.7	33.8	0.5741	69.1
98.973	1048.62	277.15	0.04918	379.3	236.6	39.0	0.6237	73.9
0.101	1005.06	283.14	0.04918	472.9	114.1	7.7	0.2412	68.2
1.447	1005.68	283.19	0.04918	470.8	117.2	8.2	0.2489	69.0
5.233	1007.42	283.19	0.04918	465.5	124.3	9.3	0.2671	70.4
10.891	1010.00	283.13	0.04918	457.8	134.1	11.0	0.2929	72.0
20.187	1014.18	283.10	0.04918	445.8	150.4	14.2	0.3374	75.3
30.261	1018.64	283.11	0.04918	433.6	167.9	18.1	0.3872	79.3
40.776	1023.21	283.11	0.04918	421.8	185.3	22.5	0.4393	83.6
50.043	1027.17	283.14	0.04918	412.1	200.4	26.9	0.4862	87.6
60.737	1031.65	283.15	0.04918	401.7	216.9	32.1	0.5400	92.2
70.498	1035.67	283.15	0.04918	392.9	231.5	37.3	0.5892	96.3
80.081	1039.54	283.15	0.04918	384.8	245.3	42.6	0.6375	100.4
90.062	1043.50	283.14	0.04918	377.0	259.3	48.4	0.6878	104.7
99.307	1047.10	283.13	0.04918	370.2	271.9	54.0	0.7344	108.6
0.101	1003.33	293.16	0.04918	456.6	217.4	30.3	0.4762	139.5
2.704	1004.49	293.17	0.04918	453.1	220.9	31.4	0.4876	140.2
5.460	1005.72	293.16	0.04918	449.4	224.3	32.6	0.4992	140.9
10.615	1007.99	293.16	0.04918	442.7	230.8	35.0	0.5214	142.2
20.265	1012.18	293.16	0.04918	430.8	242.6	39.6	0.5631	144.8
30.377	1016.51	293.16	0.04918	419.2	254.5	44.6	0.6072	147.6
40.031	1020.56	293.16	0.04918	408.9	265.5	49.5	0.6494	150.3
50.088	1024.71	293.15	0.04918	398.9	276.5	54.8	0.6933	153.1
59.573	1028.55	293.15	0.04918	390.1	286.7	60.0	0.7349	155.9
70.034	1032.71	293.15	0.04918	381.0	297.5	66.0	0.7810	158.9
79.844	1036.54	293.14	0.04918	373.0	307.4	71.6	0.8240	161.7
90.241	1040.51	293.14	0.04918	365.2	317.6	77.8	0.8696	164.7
99.731	1044.07	293.14	0.04918	358.5	326.7	83.6	0.9113	167.4
0.101	1002.08	298.15	0.04918	450.8	264.3	46.1	0.5862	174.7
1.341	1002.63	298.15	0.04918	449.1	265.5	46.7	0.5912	174.9
5.233	1004.33	298.15	0.04918	444.0	269.5	48.6	0.6069	175.7
10.138	1006.46	298.16	0.04918	437.8	274.5	51.0	0.6270	176.8
20.349	1010.85	298.17	0.04918	425.4	284.5	56.1	0.6689	179.1
30.231	1015.02	298.16	0.04918	414.2	293.7	61.2	0.7091	181.2
40.002	1019.06	298.15	0.04918	404.0	302.5	66.3	0.7489	183.3
50.472	1023.32	298.15	0.04918	393.7	311.8	71.9	0.7919	185.6
60.485	1027.32	298.15	0.04918	384.6	320.4	77.5	0.8332	187.9
70.033	1031.06	298.14	0.04918	376.4	328.3	82.8	0.8722	190.0
80.212	1034.98	298.13	0.04918	368.3	336.6	88.6	0.9138	192.2
90.002	1038.67	298.15	0.04918	361.0	344.5	94.4	0.9543	194.5
99.207	1042.07	298.15	0.04918	354.6	351.7	99.8	0.9918	196.5
0.101	997.07	313.18	0.04918	440.8	390.6	108.7	0.8861	277.4
1.051	997.48	313.19	0.04918	439.5	391.0	109.2	0.8895	277.5
5.068	999.20	313.18	0.04918	434.4	392.2	111.0	0.9028	277.7

10.690	1001.59	313.18	0.04918	427.4	393.9	113.6	0.9218	278.0
20.637	1005.75	313.16	0.04918	415.7	396.9	118.0	0.9549	278.4
30.057	1009.62	313.15	0.04918	405.3	399.8	122.3	0.9864	278.8
40.081	1013.68	313.15	0.04918	395.0	403.0	127.0	1.0202	279.4
50.871	1017.96	313.15	0.04918	384.6	406.3	132.0	1.0563	279.9
60.308	1021.63	313.16	0.04918	376.2	409.3	136.5	1.0880	280.4
70.926	1025.68	313.16	0.04918	367.3	412.5	141.5	1.1232	280.8
80.369	1029.22	313.16	0.04918	359.9	415.4	145.9	1.1544	281.1
90.005	1032.76	313.15	0.04918	352.8	418.3	150.4	1.1858	281.3
98.364	1035.77	313.15	0.04918	347.0	420.9	154.3	1.2129	281.4
0.101	987.95	333.17	0.04918	442.5	529.1	213.3	1.1956	398.2
1.581	988.59	333.18	0.04918	440.5	528.4	213.6	1.1996	398.1
5.251	990.15	333.19	0.04918	435.6	526.7	214.3	1.2091	397.6
10.975	992.57	333.16	0.04918	428.4	523.9	215.1	1.2231	396.5
20.240	996.43	333.15	0.04918	417.1	519.9	216.6	1.2462	394.9
30.370	1000.57	333.15	0.04918	405.7	515.8	218.4	1.2714	393.2
40.403	1004.60	333.15	0.04918	395.1	512.1	220.1	1.2961	391.4
50.022	1008.38	333.15	0.04918	385.6	508.8	221.8	1.3195	389.6
60.086	1012.27	333.15	0.04918	376.3	505.6	223.6	1.3436	387.5
69.905	1015.99	333.15	0.04918	367.8	502.8	225.3	1.3668	385.5
80.133	1019.79	333.15	0.04918	359.6	500.0	227.2	1.3906	383.2
90.680	1023.62	333.15	0.04918	351.6	497.4	229.0	1.4147	380.6
99.392	1026.72	333.15	0.04918	345.4	495.4	230.6	1.4342	378.4
0.101	976.49	353.15	0.04918	460.1	633.2	315.2	1.3762	485.9
1.325	977.03	353.15	0.04918	458.3	631.7	314.7	1.3784	485.4
5.185	978.71	353.14	0.04918	452.7	627.1	313.4	1.3850	483.9
10.165	980.86	353.13	0.04918	445.8	621.2	311.6	1.3935	481.9
20.142	985.12	353.14	0.04918	432.5	610.0	308.4	1.4104	477.9
30.122	989.28	353.14	0.04918	420.2	599.6	305.4	1.4268	473.7
40.370	993.48	353.14	0.04918	408.4	589.4	302.4	1.4432	469.3
50.231	997.43	353.14	0.04918	397.9	580.3	299.6	1.4584	464.8
60.069	1001.29	353.14	0.04918	388.1	571.7	297.0	1.4731	460.1
69.902	1005.07	353.15	0.04918	378.9	563.6	294.5	1.4874	455.4
80.080	1008.89	353.16	0.04918	370.1	555.7	292.1	1.5016	450.2
90.719	1012.80	353.16	0.04918	361.4	547.9	289.6	1.5158	444.6
99.202	1015.85	353.17	0.04918	355.0	542.0	287.7	1.5267	440.0
0.101	1009.80	273.16	0.09367	488.4	5.4	0.0	0.0110	2.9
1.292	1010.37	273.16	0.09367	486.6	8.4	0.0	0.0173	3.4
5.118	1012.21	273.13	0.09367	480.9	17.8	0.2	0.0370	5.0
9.768	1014.42	273.14	0.09367	474.1	29.5	0.5	0.0621	7.2
21.598	1019.98	273.15	0.09367	457.9	58.0	2.0	0.1266	13.0
30.402	1024.03	273.15	0.09367	446.8	78.1	3.6	0.1748	17.4
40.162	1028.45	273.14	0.09367	435.4	99.5	6.0	0.2286	22.3
50.179	1032.90	273.14	0.09367	424.4	120.8	9.1	0.2845	27.5
60.332	1037.33	273.14	0.09367	414.2	141.5	12.7	0.3416	33.0
70.736	1041.77	273.15	0.09367	404.4	162.0	17.0	0.4006	38.7
80.192	1045.73	273.16	0.09367	396.2	180.1	21.4	0.4545	44.0
90.346	1049.90	273.17	0.09367	388.0	198.9	26.5	0.5125	49.7

99.929	1053.75	273.18	0.09367	380.9	216.1	31.8	0.5673	55.0
0.101	1009.78	277.15	0.09367	478.3	54.4	1.7	0.1137	31.4
0.718	1010.07	277.15	0.09367	477.4	55.7	1.8	0.1168	31.6
5.329	1012.23	277.14	0.09367	470.7	65.9	2.5	0.1400	33.5
10.270	1014.53	277.13	0.09367	463.8	76.5	3.4	0.1650	35.5
20.336	1019.15	277.15	0.09367	450.5	98.0	5.8	0.2174	39.9
30.502	1023.73	277.15	0.09367	438.1	118.4	8.7	0.2704	44.4
40.255	1028.05	277.14	0.09367	427.0	137.3	11.9	0.3214	48.8
50.079	1032.32	277.15	0.09367	416.6	155.7	15.6	0.3737	53.5
60.291	1036.68	277.15	0.09367	406.6	174.1	19.9	0.4281	58.4
69.937	1040.72	277.16	0.09367	397.8	191.0	24.4	0.4800	63.1
79.681	1044.73	277.17	0.09367	389.5	207.5	29.3	0.5327	68.0
90.135	1048.94	277.16	0.09367	381.3	224.5	34.9	0.5887	73.0
99.836	1052.77	277.15	0.09367	374.3	239.8	40.5	0.6408	77.7
0.101	1009.26	283.14	0.09367	465.7	122.0	9.0	0.2619	74.1
0.598	1009.48	283.13	0.09367	465.0	122.7	9.1	0.2640	74.1
5.031	1011.51	283.13	0.09367	458.9	130.8	10.4	0.2851	75.7
10.334	1013.92	283.15	0.09367	451.7	140.5	12.2	0.3110	77.7
20.019	1018.25	283.16	0.09367	439.5	157.2	15.6	0.3577	81.3
30.370	1022.80	283.16	0.09367	427.3	174.3	19.7	0.4079	85.1
40.232	1027.06	283.16	0.09367	416.6	190.0	23.9	0.4561	88.9
50.385	1031.36	283.16	0.09367	406.3	205.6	28.6	0.5060	92.9
60.310	1035.48	283.16	0.09367	396.9	220.2	33.4	0.5548	96.8
70.535	1039.65	283.15	0.09367	388.0	234.8	38.7	0.6051	100.8
80.240	1043.53	283.15	0.09367	380.0	248.2	44.0	0.6532	104.7
90.033	1047.36	283.15	0.09367	372.6	261.4	49.6	0.7015	108.6
99.712	1051.08	283.15	0.09367	365.7	274.1	55.3	0.7494	112.5
0.101	1007.46	293.16	0.09367	450.2	223.4	32.3	0.4962	145.4
1.130	1007.92	293.15	0.09367	448.8	224.5	32.7	0.5003	145.5
5.412	1009.81	293.16	0.09367	443.2	229.9	34.6	0.5187	146.6
10.426	1012.01	293.17	0.09367	436.8	236.0	36.9	0.5403	148.0
20.346	1016.30	293.18	0.09367	424.9	247.7	41.6	0.5829	150.5
30.502	1020.62	293.17	0.09367	413.6	259.0	46.6	0.6263	153.1
40.278	1024.70	293.17	0.09367	403.4	269.7	51.6	0.6684	155.7
50.071	1028.71	293.15	0.09367	394.0	279.8	56.6	0.7102	158.1
60.376	1032.85	293.15	0.09367	384.7	290.3	62.2	0.7547	160.9
70.470	1036.82	293.15	0.09367	376.2	300.3	67.8	0.7982	163.5
80.202	1040.58	293.15	0.09367	368.6	309.7	73.3	0.8402	166.1
89.997	1044.29	293.15	0.09367	361.4	318.9	79.0	0.8823	168.7
99.850	1047.95	293.15	0.09367	354.6	327.9	84.8	0.9246	171.2
0.101	1006.13	298.14	0.09367	444.8	269.2	48.3	0.6051	180.3
1.109	1006.57	298.15	0.09367	443.5	270.3	48.8	0.6094	180.6
5.144	1008.34	298.14	0.09367	438.3	274.1	50.7	0.6253	181.3
10.008	1010.45	298.14	0.09367	432.2	278.7	53.0	0.6449	182.2
20.983	1015.15	298.15	0.09367	419.2	289.0	58.5	0.6893	184.5
30.542	1019.16	298.15	0.09367	408.8	297.5	63.4	0.7279	186.5
40.902	1023.44	298.15	0.09367	398.2	306.5	68.8	0.7699	188.6
50.632	1027.37	298.14	0.09367	388.9	314.6	73.9	0.8090	190.6

60.981	1031.48	298.15	0.09367	379.7	323.2	79.5	0.8511	192.8
70.014	1034.99	298.16	0.09367	372.2	330.4	84.5	0.8877	194.7
80.099	1038.84	298.16	0.09367	364.4	338.2	90.1	0.9283	196.7
90.358	1042.68	298.14	0.09367	356.9	345.9	95.8	0.9690	198.5
100.512	1046.40	298.16	0.09367	350.1	353.5	101.7	1.0099	200.6
0.101	1000.95	313.14	0.09367	435.8	393.3	111.0	0.9024	282.5
0.789	1001.25	313.14	0.09367	434.9	393.5	111.3	0.9048	282.5
6.210	1003.57	313.16	0.09367	428.1	395.2	113.9	0.9232	282.9
10.437	1005.36	313.13	0.09367	423.0	396.2	115.6	0.9367	282.9
20.311	1009.50	313.15	0.09367	411.5	399.1	120.1	0.9700	283.4
30.299	1013.61	313.15	0.09367	400.7	402.0	124.6	1.0032	283.9
40.917	1017.89	313.15	0.09367	390.0	404.9	129.4	1.0383	284.2
50.149	1021.55	313.15	0.09367	381.3	407.5	133.5	1.0688	284.5
60.457	1025.55	313.16	0.09367	372.2	410.5	138.2	1.1027	284.9
70.571	1029.40	313.15	0.09367	364.0	413.3	142.8	1.1355	285.0
80.367	1033.06	313.14	0.09367	356.4	416.0	147.1	1.1670	285.1
90.037	1036.59	313.15	0.09367	349.5	418.7	151.6	1.1981	285.1
99.974	1040.15	313.15	0.09367	342.8	421.5	156.0	1.2296	285.1
0.101	991.66	333.16	0.09367	438.4	530.3	215.5	1.2097	402.9
1.480	992.25	333.17	0.09367	436.5	529.6	215.8	1.2133	402.8
5.377	993.92	333.15	0.09367	431.4	527.6	216.2	1.2228	402.0
10.288	996.00	333.15	0.09367	425.2	525.2	217.0	1.2350	401.2
20.179	1000.13	333.14	0.09367	413.4	520.6	218.4	1.2593	399.3
30.149	1004.22	333.15	0.09367	402.3	516.4	220.0	1.2838	397.6
40.211	1008.27	333.15	0.09367	391.8	512.5	221.5	1.3081	395.6
50.064	1012.16	333.15	0.09367	382.2	508.9	223.1	1.3316	393.6
60.072	1016.03	333.15	0.09367	373.1	505.6	224.6	1.3551	391.4
70.395	1019.95	333.15	0.09367	364.3	502.4	226.3	1.3790	389.0
80.198	1023.59	333.15	0.09367	356.5	499.6	227.8	1.4012	386.6
90.001	1027.15	333.15	0.09367	349.2	497.0	229.4	1.4230	384.1
99.654	1030.59	333.15	0.09367	342.5	494.6	230.9	1.4441	381.5
0.101	980.17	353.15	0.09367	456.2	632.5	316.0	1.3866	489.6
1.726	980.89	353.15	0.09367	453.8	630.5	315.4	1.3894	488.9
5.423	982.51	353.15	0.09367	448.5	626.0	314.0	1.3957	487.5
10.212	984.58	353.16	0.09367	441.9	620.3	312.3	1.4037	485.5
20.268	988.88	353.14	0.09367	428.7	608.9	308.8	1.4201	481.2
30.102	993.00	353.14	0.09367	416.8	598.4	305.5	1.4358	476.9
40.437	997.24	353.14	0.09367	405.1	588.0	302.3	1.4517	472.2
50.505	1001.29	353.14	0.09367	394.4	578.6	299.3	1.4668	467.5
60.143	1005.08	353.14	0.09367	385.0	570.0	296.5	1.4807	462.7
70.066	1008.89	353.15	0.09367	375.9	561.7	293.9	1.4945	457.7
80.130	1012.68	353.15	0.09367	367.3	553.8	291.2	1.5079	452.4
90.022	1016.31	353.15	0.09367	359.4	546.4	288.7	1.5206	447.0
100.011	1019.90	353.16	0.09367	351.9	539.4	286.3	1.5328	441.3
0.101	1022.04	273.15	0.23797	469.4	30.0	0.5	0.0640	17.4
1.904	1022.90	273.17	0.23797	466.7	34.5	0.7	0.0738	18.3
5.327	1024.52	273.14	0.23797	462.0	41.9	1.0	0.0908	19.5
10.488	1026.96	273.14	0.23797	454.9	53.6	1.7	0.1178	21.7

20.174	1031.46	273.13	0.23797	442.5	74.6	3.3	0.1685	25.8
29.996	1035.94	273.15	0.23797	430.7	95.2	5.6	0.2211	30.4
40.275	1040.54	273.14	0.23797	419.4	115.7	8.4	0.2758	35.1
49.993	1044.80	273.15	0.23797	409.4	134.4	11.5	0.3283	39.7
60.062	1049.13	273.16	0.23797	399.8	153.1	15.3	0.3830	44.6
69.996	1053.32	273.15	0.23797	391.0	170.8	19.3	0.4367	49.3
80.104	1057.49	273.16	0.23797	382.7	188.3	23.9	0.4919	54.3
89.993	1061.48	273.16	0.23797	375.3	204.7	28.7	0.5456	59.0
100.054	1065.45	273.18	0.23797	368.2	221.1	34.0	0.6006	64.0
0.101	1021.95	277.15	0.23797	460.2	76.6	3.5	0.1664	46.0
1.147	1022.44	277.14	0.23797	458.8	78.6	3.7	0.1713	46.3
5.123	1024.29	277.14	0.23797	453.4	86.6	4.5	0.1910	47.8
10.316	1026.68	277.12	0.23797	446.6	96.6	5.6	0.2162	49.6
20.238	1031.19	277.16	0.23797	434.2	115.8	8.3	0.2668	53.7
30.003	1035.55	277.18	0.23797	422.9	133.8	11.3	0.3165	57.7
40.165	1039.99	277.21	0.23797	412.0	151.9	14.9	0.3686	62.0
50.093	1044.25	277.23	0.23797	402.1	168.7	18.8	0.4196	66.2
60.103	1048.47	277.26	0.23797	392.8	185.2	23.1	0.4715	70.6
69.996	1052.55	277.20	0.23797	384.4	200.2	27.5	0.5208	74.4
79.902	1056.55	277.12	0.23797	376.7	214.6	32.1	0.5697	78.0
90.004	1060.54	277.15	0.23797	369.1	229.6	37.3	0.6221	82.4
99.788	1064.33	277.19	0.23797	362.3	243.9	42.7	0.6730	86.8
0.101	1021.39	283.16	0.23797	448.8	141.4	12.3	0.3150	89.1
0.617	1021.63	283.13	0.23797	448.2	141.9	12.5	0.3167	89.0
5.391	1023.78	283.14	0.23797	442.0	149.7	14.0	0.3388	90.5
10.151	1025.92	283.14	0.23797	436.0	157.3	15.7	0.3608	92.0
20.150	1030.33	283.14	0.23797	424.1	172.6	19.3	0.4070	95.1
30.096	1034.65	283.15	0.23797	413.1	187.4	23.3	0.4536	98.3
40.103	1038.91	283.15	0.23797	402.8	201.6	27.5	0.5004	101.6
50.099	1043.08	283.15	0.23797	393.3	215.2	32.0	0.5472	104.9
60.167	1047.20	283.16	0.23797	384.3	228.6	36.8	0.5948	108.3
70.099	1051.19	283.15	0.23797	376.1	241.2	41.7	0.6413	111.5
80.037	1055.09	283.15	0.23797	368.5	253.5	46.8	0.6880	114.8
90.095	1058.97	283.15	0.23797	361.2	265.6	52.2	0.7353	118.1
99.755	1062.61	283.17	0.23797	354.8	277.0	57.6	0.7808	121.4
0.101	1019.46	293.16	0.23797	435.1	238.2	37.5	0.5474	160.4
1.814	1020.21	293.16	0.23797	433.0	240.1	38.2	0.5544	160.7
5.439	1021.78	293.16	0.23797	428.6	243.9	39.8	0.5690	161.4
9.943	1023.73	293.16	0.23797	423.2	248.6	41.8	0.5873	162.2
20.166	1028.09	293.16	0.23797	411.7	258.9	46.4	0.6290	164.2
30.097	1032.25	293.16	0.23797	401.2	268.7	51.1	0.6696	166.2
40.031	1036.34	293.17	0.23797	391.5	278.1	55.9	0.7105	168.3
50.097	1040.40	293.16	0.23797	382.3	287.3	60.8	0.7515	170.2
60.053	1044.34	293.16	0.23797	373.8	296.1	65.9	0.7922	172.2
70.095	1048.24	293.16	0.23797	365.8	304.8	71.0	0.8333	174.2
79.935	1051.99	293.16	0.23797	358.5	313.1	76.2	0.8734	176.1
90.093	1055.78	293.16	0.23797	351.4	321.4	81.6	0.9147	178.0
99.874	1059.35	293.16	0.23797	345.1	329.2	86.9	0.9541	179.8

0.101	1018.08	298.15	0.23797	430.5	282.4	54.2	0.6559	195.5
1.412	1018.65	298.15	0.23797	428.9	283.5	54.8	0.6610	195.7
5.023	1020.20	298.15	0.23797	424.5	286.4	56.5	0.6747	196.1
10.002	1022.33	298.15	0.23797	418.7	290.4	58.8	0.6937	196.8
20.003	1026.55	298.15	0.23797	407.6	298.3	63.4	0.7320	198.2
29.986	1030.68	298.15	0.23797	397.2	305.9	68.2	0.7702	199.6
39.957	1034.74	298.15	0.23797	387.5	313.3	73.0	0.8084	201.1
50.002	1038.75	298.15	0.23797	378.5	320.5	77.9	0.8469	202.5
59.956	1042.64	298.15	0.23797	370.1	327.5	82.9	0.8849	203.9
69.975	1046.49	298.15	0.23797	362.2	334.3	87.9	0.9230	205.2
80.002	1050.27	298.15	0.23797	354.8	341.0	93.0	0.9611	206.6
89.956	1053.94	298.15	0.23797	347.9	347.4	98.2	0.9986	207.8
99.995	1057.56	298.15	0.23797	341.5	353.8	103.4	1.0362	208.9
0.101	1012.66	313.15	0.23797	423.5	402.0	118.0	0.9492	297.2
1.391	1013.21	313.20	0.23797	421.9	402.7	118.8	0.9544	297.5
5.352	1014.89	313.19	0.23797	417.2	403.3	120.3	0.9667	297.4
10.701	1017.14	313.13	0.23797	411.1	403.8	122.1	0.9823	296.9
20.331	1021.13	313.14	0.23797	400.5	405.6	126.0	1.0128	296.8
29.998	1025.07	313.15	0.23797	390.6	407.4	129.9	1.0432	296.7
39.711	1028.95	313.15	0.23797	381.2	409.3	133.7	1.0735	296.4
49.997	1032.99	313.15	0.23797	372.0	411.2	137.8	1.1054	296.1
60.598	1037.07	313.14	0.23797	363.1	413.2	141.9	1.1378	295.7
70.125	1040.66	313.15	0.23797	355.7	415.1	145.8	1.1670	295.3
79.641	1044.18	313.15	0.23797	348.7	416.9	149.5	1.1958	294.8
89.993	1047.92	313.15	0.23797	341.6	419.0	153.6	1.2266	294.1
99.737	1051.38	313.15	0.23797	335.3	421.0	157.4	1.2554	293.4
0.101	1003.18	333.15	0.23797	427.8	533.9	221.3	1.2481	415.7
2.332	1004.14	333.14	0.23797	424.9	532.5	221.4	1.2532	415.2
5.128	1005.33	333.15	0.23797	421.5	531.0	221.7	1.2599	414.6
10.102	1007.43	333.15	0.23797	415.4	528.2	222.1	1.2715	413.5
20.211	1011.64	333.15	0.23797	403.9	522.9	223.0	1.2948	411.1
29.994	1015.64	333.15	0.23797	393.4	518.1	223.8	1.3170	408.8
40.274	1019.76	333.16	0.23797	383.1	513.4	224.8	1.3401	406.2
50.003	1023.58	333.16	0.23797	374.1	509.3	225.7	1.3615	403.6
60.081	1027.46	333.16	0.23797	365.3	505.3	226.6	1.3833	400.8
69.995	1031.20	333.16	0.23797	357.2	501.6	227.6	1.4043	397.9
80.064	1034.91	333.17	0.23797	349.5	498.2	228.6	1.4253	394.8
89.993	1038.50	333.16	0.23797	342.5	495.0	229.5	1.4453	391.5
99.874	1041.99	333.15	0.23797	335.9	492.0	230.4	1.4648	388.1
0.101	991.68	353.16	0.23797	446.1	629.7	316.5	1.4114	498.3
0.987	992.07	353.05	0.23797	445.0	628.3	315.7	1.4120	497.5
5.167	993.89	353.08	0.23797	439.2	623.1	314.0	1.4186	495.7
10.006	995.98	353.16	0.23797	432.8	617.3	312.2	1.4264	493.8
20.252	1000.34	353.17	0.23797	419.9	605.3	308.1	1.4416	488.9
30.054	1004.43	353.16	0.23797	408.5	594.5	304.2	1.4554	483.9
40.067	1008.52	353.16	0.23797	397.6	584.1	300.5	1.4691	478.8
50.238	1012.59	353.16	0.23797	387.3	574.2	296.9	1.4825	473.3
60.056	1016.43	353.16	0.23797	378.1	565.2	293.5	1.4949	467.9

70.079	1020.26	353.16	0.23797	369.3	556.4	290.2	1.5069	462.1
79.815	1023.91	353.17	0.23797	361.2	548.4	287.2	1.5181	456.3
90.062	1027.66	353.15	0.23797	353.4	540.4	284.0	1.5293	450.0
99.731	1031.11	353.10	0.23797	346.5	533.3	281.1	1.5392	443.8
0.101	1032.28	273.14	0.36365	456.1	49.3	1.4	0.1081	29.4
1.431	1032.92	273.13	0.36365	454.2	52.1	1.6	0.1146	29.9
5.003	1034.61	273.16	0.36365	449.3	60.0	2.1	0.1336	31.5
10.487	1037.18	273.19	0.36365	442.1	71.8	3.1	0.1623	33.9
20.661	1041.86	273.18	0.36365	429.6	92.0	5.2	0.2142	37.8
30.571	1046.33	273.17	0.36365	418.3	110.9	7.7	0.2651	41.8
40.335	1050.64	273.16	0.36365	408.0	128.7	10.6	0.3154	45.8
50.051	1054.83	273.16	0.36365	398.5	145.8	13.8	0.3658	49.9
60.511	1059.24	273.16	0.36365	389.0	163.4	17.7	0.4202	54.3
69.908	1063.11	273.15	0.36365	381.1	178.6	21.5	0.4687	58.1
80.454	1067.35	273.15	0.36365	372.9	195.2	26.1	0.5234	62.5
90.235	1071.19	273.16	0.36365	365.8	210.0	30.7	0.5741	66.6
99.846	1074.86	273.17	0.36365	359.4	224.1	35.5	0.6236	70.5
0.101	1032.23	277.14	0.36365	447.4	94.3	5.3	0.2107	58.3
0.800	1032.55	277.14	0.36365	446.5	95.6	5.5	0.2140	58.5
4.924	1034.44	277.18	0.36365	441.0	103.5	6.5	0.2348	60.2
10.328	1036.91	277.19	0.36365	434.2	113.4	7.9	0.2611	62.1
20.284	1041.37	277.14	0.36365	422.5	130.1	10.7	0.3080	65.1
30.663	1045.93	277.15	0.36365	411.1	147.5	14.0	0.3587	68.8
40.415	1050.12	277.15	0.36365	401.2	163.0	17.5	0.4063	72.2
50.271	1054.27	277.15	0.36365	391.8	178.1	21.3	0.4545	75.7
60.310	1058.41	277.15	0.36365	383.0	192.9	25.4	0.5037	79.3
70.072	1062.34	277.15	0.36365	375.0	206.8	29.7	0.5513	82.7
80.017	1066.26	277.14	0.36365	367.5	220.4	34.3	0.5996	86.2
90.470	1070.28	277.14	0.36365	360.1	234.2	39.5	0.6504	89.8
99.744	1073.76	277.14	0.36365	354.1	246.2	44.2	0.6952	92.9
0.101	1031.61	283.15	0.36365	436.9	156.5	15.4	0.3583	101.4
1.148	1032.08	283.14	0.36365	435.6	158.0	15.7	0.3627	101.5
5.538	1034.03	283.13	0.36365	430.2	164.3	17.2	0.3819	102.6
10.451	1036.20	283.15	0.36365	424.3	171.5	18.9	0.4042	104.0
20.277	1040.47	283.15	0.36365	413.2	185.1	22.6	0.4480	106.6
30.371	1044.78	283.15	0.36365	402.5	198.5	26.5	0.4932	109.3
40.430	1048.98	283.15	0.36365	392.7	211.4	30.7	0.5383	112.0
50.371	1053.06	283.15	0.36365	383.6	223.7	35.1	0.5830	114.7
60.362	1057.07	283.15	0.36365	375.2	235.6	39.6	0.6279	117.4
70.069	1060.89	283.15	0.36365	367.5	246.7	44.2	0.6715	120.1
80.440	1064.89	283.14	0.36365	359.8	258.3	49.3	0.7178	122.8
90.638	1068.73	283.14	0.36365	352.8	269.3	54.5	0.7633	125.5
99.809	1072.11	283.14	0.36365	347.0	279.0	59.2	0.8040	127.8
0.101	1029.58	293.15	0.36365	424.6	250.0	41.9	0.5888	172.5
1.078	1030.00	293.14	0.36365	423.4	250.8	42.3	0.5923	172.6
5.132	1031.75	293.15	0.36365	418.6	254.7	44.0	0.6084	173.2
10.462	1034.03	293.14	0.36365	412.5	259.5	46.3	0.6291	173.9
20.404	1038.21	293.14	0.36365	401.8	268.4	50.6	0.6679	175.4

30.228	1042.28	293.15	0.36365	391.9	277.0	55.1	0.7067	177.0
40.343	1046.38	293.15	0.36365	382.4	285.4	59.7	0.7464	178.5
50.071	1050.25	293.15	0.36365	373.9	293.3	64.2	0.7845	179.9
60.153	1054.18	293.14	0.36365	365.6	301.1	69.0	0.8237	181.3
70.395	1058.08	293.14	0.36365	357.8	308.9	73.9	0.8634	182.7
80.049	1061.69	293.14	0.36365	350.9	316.1	78.6	0.9008	184.0
90.302	1065.45	293.15	0.36365	344.0	323.6	83.7	0.9406	185.4
100.000	1068.92	293.15	0.36365	338.0	330.4	88.6	0.9776	186.6
0.101	1028.17	298.15	0.36365	420.4	292.8	59.2	0.6966	207.6
1.096	1028.59	298.14	0.36365	419.3	293.5	59.5	0.6999	207.6
5.036	1030.27	298.15	0.36365	414.7	296.3	61.3	0.7146	208.0
10.007	1032.36	298.14	0.36365	409.1	299.7	63.4	0.7325	208.4
20.613	1036.76	298.15	0.36365	397.9	306.9	68.1	0.7714	209.4
30.298	1040.71	298.15	0.36365	388.3	313.3	72.4	0.8068	210.3
40.006	1044.60	298.15	0.36365	379.2	319.4	76.8	0.8423	211.1
50.394	1048.68	298.15	0.36365	370.2	325.9	81.5	0.8802	212.0
60.315	1052.51	298.14	0.36365	362.2	331.8	86.1	0.9161	212.8
70.542	1056.37	298.13	0.36365	354.5	337.8	90.8	0.9528	213.5
80.971	1060.23	298.13	0.36365	347.1	343.8	95.7	0.9904	214.3
90.613	1063.73	298.15	0.36365	340.7	349.3	100.4	1.0253	215.1
100.071	1067.09	298.16	0.36365	334.8	354.6	104.9	1.0590	215.7
0.101	1022.64	313.16	0.36365	414.8	408.9	123.5	0.9859	308.6
1.111	1023.07	313.15	0.36365	413.6	408.9	123.8	0.9888	308.5
5.239	1024.79	313.15	0.36365	408.9	409.3	125.2	1.0011	308.3
10.231	1026.86	313.16	0.36365	403.3	409.8	127.0	1.0162	308.0
20.252	1030.97	313.15	0.36365	392.7	410.8	130.5	1.0459	307.3
30.306	1035.01	313.15	0.36365	382.8	411.8	134.0	1.0757	306.6
40.104	1038.87	313.14	0.36365	373.8	412.8	137.4	1.1044	305.7
50.088	1042.74	313.15	0.36365	365.1	414.0	141.0	1.1338	305.0
60.117	1046.55	313.16	0.36365	357.0	415.3	144.5	1.1631	304.1
69.901	1050.20	313.15	0.36365	349.6	416.4	147.9	1.1911	303.1
80.123	1053.93	313.15	0.36365	342.4	417.7	151.4	1.2201	302.0
90.491	1057.64	313.15	0.36365	335.5	419.1	155.0	1.2493	300.7
99.636	1060.85	313.14	0.36365	329.8	420.3	158.1	1.2746	299.5
0.101	1012.94	333.14	0.36365	420.6	536.1	224.8	1.2748	424.6
1.635	1013.59	333.15	0.36365	418.7	535.2	224.9	1.2783	424.2
5.263	1015.13	333.16	0.36365	414.3	532.9	225.0	1.2864	423.3
10.025	1017.13	333.14	0.36365	408.7	529.9	225.0	1.2966	421.9
20.129	1021.32	333.15	0.36365	397.4	524.1	225.4	1.3186	419.2
30.369	1025.47	333.15	0.36365	386.8	518.5	225.8	1.3404	416.2
40.144	1029.36	333.15	0.36365	377.4	513.5	226.2	1.3608	413.2
50.021	1033.22	333.15	0.36365	368.4	508.8	226.6	1.3811	410.1
59.659	1036.90	333.15	0.36365	360.3	504.5	227.0	1.4004	406.9
70.181	1040.83	333.15	0.36365	351.9	500.1	227.5	1.4211	403.3
80.086	1044.45	333.16	0.36365	344.6	496.3	228.0	1.4402	399.7
90.470	1048.16	333.15	0.36365	337.5	492.5	228.5	1.4595	395.8
99.729	1051.39	333.15	0.36365	331.5	489.4	228.9	1.4763	392.1
0.101	1001.32	353.14	0.36365	439.9	626.0	314.2	1.4232	502.5

1.025	1001.72	353.15	0.36365	438.6	624.8	313.8	1.4245	502.0
5.212	1003.54	353.16	0.36365	433.0	619.4	311.8	1.4304	500.0
10.261	1005.72	353.13	0.36365	426.5	613.0	309.4	1.4373	497.3
20.442	1010.03	353.16	0.36365	414.1	600.9	304.8	1.4510	492.0
30.371	1014.15	353.15	0.36365	402.8	589.6	300.5	1.4637	486.5
40.258	1018.17	353.15	0.36365	392.4	579.1	296.4	1.4758	480.9
50.006	1022.05	353.15	0.36365	382.8	569.3	292.6	1.4873	475.2
60.338	1026.07	353.15	0.36365	373.3	559.5	288.6	1.4989	469.0
69.914	1029.71	353.15	0.36365	365.1	550.9	285.1	1.5091	463.0
80.181	1033.53	353.15	0.36365	356.8	542.2	281.5	1.5194	456.4
90.504	1037.28	353.15	0.36365	349.1	533.9	278.0	1.5292	449.5
100.045	1040.66	353.15	0.36365	342.5	526.6	274.8	1.5378	443.0
0.101	1070.99	273.13	0.85923	415.2	125.0	9.6	0.3010	82.1
1.357	1071.54	273.12	0.85923	413.7	126.8	9.9	0.3065	82.4
5.421	1073.31	273.12	0.85923	408.9	133.0	11.0	0.3253	83.4
10.253	1075.40	273.13	0.85923	403.4	140.4	12.4	0.3481	84.8
20.236	1079.65	273.14	0.85923	392.5	155.0	15.5	0.3950	87.6
30.035	1083.75	273.14	0.85923	382.5	168.7	18.8	0.4412	90.5
40.377	1087.98	273.14	0.85923	372.6	182.6	22.5	0.4901	93.5
50.069	1091.87	273.14	0.85923	364.0	195.1	26.2	0.5361	96.4
59.933	1095.74	273.14	0.85923	355.7	207.4	30.1	0.5831	99.3
70.357	1099.74	273.13	0.85923	347.6	219.9	34.5	0.6325	102.4
79.287	1103.10	273.12	0.85923	341.1	230.2	38.5	0.6749	105.0
90.488	1107.21	273.13	0.85923	333.4	242.8	43.6	0.7283	108.4
99.998	1110.62	273.13	0.85923	327.3	253.1	48.1	0.7735	111.3
0.101	1070.45	277.11	0.85923	409.2	161.4	16.5	0.3943	109.2
1.116	1070.88	277.10	0.85923	408.1	162.6	16.8	0.3985	109.3
5.174	1072.63	277.15	0.85923	403.3	168.4	18.2	0.4176	110.6
10.290	1074.81	277.16	0.85923	397.5	175.1	19.9	0.4404	111.8
19.978	1078.88	277.16	0.85923	387.2	187.1	23.2	0.4833	114.0
30.171	1083.08	277.16	0.85923	377.0	199.4	27.0	0.5288	116.4
40.191	1087.12	277.16	0.85923	367.7	210.9	30.8	0.5735	118.8
50.226	1091.07	277.16	0.85923	359.0	222.0	34.9	0.6184	121.2
60.229	1094.93	277.16	0.85923	350.8	232.7	39.1	0.6631	123.6
70.059	1098.64	277.16	0.85923	343.3	242.8	43.3	0.7071	125.9
79.420	1102.10	277.16	0.85923	336.6	252.1	47.5	0.7490	128.2
90.016	1105.92	277.16	0.85923	329.5	262.3	52.3	0.7962	130.6
99.568	1109.28	277.16	0.85923	323.5	271.2	56.8	0.8385	132.8
0.101	1069.28	283.15	0.85923	401.9	213.6	30.1	0.5314	150.4
2.043	1070.10	283.14	0.85923	399.7	215.5	30.7	0.5390	150.6
5.066	1071.38	283.15	0.85923	396.3	218.6	31.9	0.5516	151.1
10.142	1073.51	283.15	0.85923	390.8	223.7	33.8	0.5723	151.9
20.134	1077.64	283.14	0.85923	380.4	233.2	37.6	0.6130	153.4
30.089	1081.66	283.15	0.85923	370.8	242.5	41.5	0.6540	155.1
40.101	1085.62	283.16	0.85923	361.7	251.5	45.6	0.6953	156.8
50.226	1089.53	283.16	0.85923	353.1	260.1	49.8	0.7367	158.4
60.110	1093.27	283.16	0.85923	345.2	268.3	54.0	0.7772	160.0
69.954	1096.90	283.16	0.85923	337.9	276.2	58.3	0.8172	161.5

79.624	1100.38	283.16	0.85923	331.2	283.6	62.5	0.8564	162.9
90.338	1104.14	283.16	0.85923	324.2	291.6	67.3	0.8995	164.4
99.690	1107.34	283.16	0.85923	318.5	298.4	71.5	0.9368	165.6
0.101	1066.60	293.15	0.85923	393.9	293.5	60.1	0.7452	218.4
1.847	1067.32	293.16	0.85923	391.9	294.6	60.8	0.7516	218.5
5.405	1068.79	293.15	0.85923	388.1	296.5	62.1	0.7641	218.6
10.167	1070.73	293.13	0.85923	383.1	299.0	63.9	0.7805	218.6
20.049	1074.71	293.14	0.85923	373.1	304.4	67.7	0.8158	219.1
30.266	1078.73	293.15	0.85923	363.5	309.8	71.8	0.8522	219.6
40.055	1082.50	293.16	0.85923	354.9	314.8	75.6	0.8871	220.0
50.039	1086.27	293.15	0.85923	346.7	319.7	79.6	0.9221	220.3
59.538	1089.78	293.15	0.85923	339.3	324.2	83.3	0.9555	220.6
70.301	1093.66	293.15	0.85923	331.5	329.2	87.6	0.9931	220.8
79.808	1097.01	293.15	0.85923	325.0	333.5	91.5	1.0261	221.0
90.448	1100.67	293.15	0.85923	318.2	338.2	95.7	1.0628	221.1
99.991	1103.88	293.16	0.85923	312.5	342.3	99.6	1.0956	221.2
0.101	1064.87	298.15	0.85923	391.7	330.6	78.1	0.8442	251.6
1.099	1065.28	298.16	0.85923	390.6	331.1	78.5	0.8477	251.6
5.697	1067.16	298.16	0.85923	385.6	332.7	80.2	0.8629	251.6
10.063	1068.93	298.16	0.85923	381.0	334.3	81.8	0.8774	251.5
20.108	1072.95	298.15	0.85923	371.0	337.8	85.5	0.9104	251.3
30.053	1076.84	298.15	0.85923	361.7	341.2	89.1	0.9433	251.2
40.115	1080.70	298.16	0.85923	352.9	344.6	92.9	0.9767	251.1
49.697	1084.30	298.15	0.85923	345.0	347.7	96.4	1.0079	250.8
60.369	1088.22	298.16	0.85923	336.8	351.2	100.4	1.0430	250.6
70.078	1091.70	298.16	0.85923	329.7	354.3	104.0	1.0744	250.3
79.633	1095.05	298.14	0.85923	323.3	357.1	107.4	1.1047	249.7
90.011	1098.61	298.14	0.85923	316.6	360.2	111.2	1.1378	249.2
100.079	1101.98	298.16	0.85923	310.5	363.3	115.0	1.1700	248.8
0.101	1058.61	313.16	0.85923	390.8	431.8	141.1	1.1050	345.9
1.328	1059.12	313.17	0.85923	389.4	431.6	141.5	1.1085	345.8
5.079	1060.65	313.17	0.85923	385.3	431.0	142.3	1.1186	345.2
10.274	1062.75	313.15	0.85923	379.8	430.0	143.4	1.1321	344.2
20.222	1066.71	313.16	0.85923	369.8	428.5	145.8	1.1588	342.7
30.064	1070.55	313.16	0.85923	360.4	427.1	148.0	1.1849	341.0
40.199	1074.42	313.16	0.85923	351.5	425.8	150.3	1.2115	339.2
50.070	1078.11	313.15	0.85923	343.3	424.6	152.6	1.2370	337.3
60.044	1081.76	313.15	0.85923	335.5	423.6	154.8	1.2627	335.4
70.260	1085.42	313.14	0.85923	328.0	422.6	157.1	1.2886	333.2
80.240	1088.91	313.13	0.85923	321.1	421.7	159.3	1.3135	331.1
90.161	1092.30	313.15	0.85923	314.6	421.1	161.6	1.3384	329.0
100.075	1095.62	313.16	0.85923	308.6	420.5	163.8	1.3629	326.7
0.101	1048.32	333.14	0.85923	401.1	538.7	229.9	1.3430	447.3
1.900	1049.08	333.14	0.85923	398.9	537.2	229.7	1.3466	446.7
5.213	1050.45	333.15	0.85923	395.1	534.6	229.4	1.3530	445.6
10.281	1052.54	333.16	0.85923	389.3	530.6	228.9	1.3629	443.8
20.396	1056.65	333.16	0.85923	378.4	523.0	227.9	1.3820	440.0
30.253	1060.56	333.14	0.85923	368.5	515.9	226.9	1.4001	436.2

40.208	1064.43	333.13	0.85923	359.1	509.3	226.0	1.4181	432.2
50.088	1068.19	333.14	0.85923	350.4	503.1	225.3	1.4359	428.3
60.129	1071.92	333.14	0.85923	342.0	497.1	224.5	1.4534	424.0
70.342	1075.63	333.14	0.85923	334.1	491.4	223.8	1.4708	419.6
80.004	1079.05	333.14	0.85923	327.1	486.3	223.2	1.4868	415.3
90.034	1082.52	333.14	0.85923	320.2	481.3	222.6	1.5030	410.7
99.978	1085.88	333.14	0.85923	313.8	476.6	222.1	1.5187	406.0
0.101	1036.46	353.15	0.85923	423.2	598.8	288.7	1.4150	499.6
1.247	1036.96	353.15	0.85923	421.7	597.2	288.1	1.4164	498.9
5.237	1038.66	353.14	0.85923	416.5	591.9	286.0	1.4210	496.6
9.762	1040.58	353.15	0.85923	410.8	586.0	283.6	1.4263	493.9
20.581	1045.10	353.13	0.85923	397.9	572.4	278.2	1.4384	487.4
30.342	1049.08	353.14	0.85923	387.1	560.8	273.5	1.4489	481.3
40.746	1053.23	353.14	0.85923	376.3	549.2	268.8	1.4595	474.7
50.471	1057.02	353.15	0.85923	366.9	539.0	264.5	1.4689	468.3
59.962	1060.64	353.16	0.85923	358.3	529.4	260.5	1.4777	461.9
70.053	1064.40	353.15	0.85923	349.7	519.9	256.4	1.4866	454.9
80.139	1068.07	353.15	0.85923	341.7	510.8	252.5	1.4950	447.8
90.064	1071.59	353.15	0.85923	334.3	502.3	248.7	1.5027	440.6
99.857	1074.98	353.15	0.85923	327.4	494.3	245.2	1.5099	433.4
0.101	1085.58	273.15	1.06930	401.6	156.1	15.3	0.3887	106.1
1.451	1086.15	273.14	1.06930	400.0	157.8	15.7	0.3946	106.3
5.280	1087.79	273.14	1.06930	395.5	163.2	16.9	0.4125	107.4
10.276	1089.90	273.15	1.06930	389.9	170.0	18.6	0.4361	108.8
20.199	1094.03	273.16	1.06930	379.2	183.1	22.1	0.4829	111.7
30.370	1098.18	273.15	1.06930	369.0	195.9	25.9	0.5308	114.6
40.456	1102.22	273.15	1.06930	359.4	208.1	29.9	0.5790	117.7
50.591	1106.20	273.15	1.06930	350.4	219.9	34.1	0.6277	120.9
60.202	1109.90	273.16	1.06930	342.4	230.9	38.3	0.6742	124.0
70.305	1113.71	273.15	1.06930	334.5	241.8	42.9	0.7229	127.2
80.263	1117.38	273.15	1.06930	327.1	252.3	47.6	0.7712	130.4
90.700	1121.15	273.15	1.06930	319.9	262.9	52.6	0.8218	133.8
99.754	1124.34	273.14	1.06930	314.0	271.8	57.1	0.8655	136.6
0.101	1084.89	277.14	1.06930	396.2	189.6	23.2	0.4785	132.5
2.438	1085.89	277.15	1.06930	393.4	192.4	24.0	0.4892	133.1
5.124	1087.03	277.15	1.06930	390.3	195.6	25.0	0.5012	133.8
10.344	1089.22	277.15	1.06930	384.5	201.6	26.9	0.5244	135.0
20.364	1093.36	277.15	1.06930	373.9	212.9	30.7	0.5692	137.4
30.621	1097.51	277.15	1.06930	363.8	223.9	34.8	0.6154	139.9
40.339	1101.36	277.14	1.06930	354.8	233.8	38.8	0.6591	142.3
50.307	1105.21	277.14	1.06930	346.1	243.7	43.0	0.7041	144.8
60.256	1108.98	277.14	1.06930	338.0	253.3	47.4	0.7493	147.4
70.296	1112.69	277.15	1.06930	330.3	262.6	52.0	0.7949	150.0
80.331	1116.31	277.15	1.06930	323.1	271.5	56.6	0.8403	152.5
90.004	1119.71	277.15	1.06930	316.6	279.8	61.2	0.8838	154.9
99.609	1123.01	277.15	1.06930	310.5	287.8	65.8	0.9268	157.3
0.101	1083.50	283.16	1.06930	389.8	237.6	37.8	0.6095	172.5
0.947	1083.85	283.17	1.06930	388.8	238.4	38.2	0.6132	172.7

5.217	1085.63	283.18	1.06930	384.0	242.3	39.9	0.6309	173.4
10.829	1087.95	283.17	1.06930	378.0	247.1	42.0	0.6537	174.3
20.880	1092.03	283.18	1.06930	367.6	255.6	46.1	0.6954	176.0
30.668	1095.92	283.17	1.06930	358.2	263.5	50.1	0.7356	177.6
40.660	1099.80	283.17	1.06930	349.2	271.3	54.3	0.7769	179.3
50.002	1103.35	283.15	1.06930	341.3	278.2	58.2	0.8151	180.8
59.539	1106.90	283.15	1.06930	333.6	285.1	62.3	0.8545	182.4
69.906	1110.67	283.15	1.06930	325.8	292.4	66.9	0.8974	184.2
80.477	1114.42	283.16	1.06930	318.4	299.6	71.6	0.9411	186.0
90.171	1117.77	283.16	1.06930	312.0	306.0	76.0	0.9808	187.5
99.622	1120.96	283.17	1.06930	306.1	312.0	80.4	1.0194	189.0
0.101	1080.54	293.14	1.06930	383.0	311.8	68.9	0.8142	238.6
1.776	1081.23	293.14	1.06930	381.1	312.6	69.5	0.8202	238.7
5.372	1082.69	293.14	1.06930	377.2	314.2	70.9	0.8330	238.8
10.452	1084.74	293.15	1.06930	371.9	316.6	72.8	0.8514	239.1
20.399	1088.69	293.15	1.06930	361.9	321.0	76.7	0.8869	239.6
30.638	1092.67	293.15	1.06930	352.3	325.3	80.6	0.9236	240.1
40.096	1096.27	293.15	1.06930	343.9	329.2	84.3	0.9574	240.6
50.298	1100.07	293.15	1.06930	335.4	333.3	88.3	0.9938	241.0
60.451	1103.76	293.14	1.06930	327.5	337.2	92.2	1.0296	241.4
69.902	1107.12	293.15	1.06930	320.6	340.9	96.0	1.0633	241.8
80.032	1110.64	293.15	1.06930	313.6	344.6	100.0	1.0989	242.1
90.002	1114.03	293.15	1.06930	307.1	348.2	103.9	1.1339	242.4
99.830	1117.28	293.15	1.06930	301.1	351.6	107.8	1.1680	242.6
0.101	1078.71	298.15	1.06930	381.3	346.6	87.1	0.9091	271.0
1.541	1079.29	298.14	1.06930	379.7	346.9	87.6	0.9137	270.9
5.006	1080.69	298.13	1.06930	376.0	347.8	88.7	0.9250	270.8
10.401	1082.86	298.15	1.06930	370.3	349.4	90.7	0.9434	270.9
20.036	1086.66	298.15	1.06930	360.7	351.8	94.2	0.9755	270.8
30.274	1090.62	298.15	1.06930	351.0	354.4	97.8	1.0096	270.7
40.001	1094.30	298.17	1.06930	342.5	357.0	101.4	1.0423	270.8
50.087	1098.04	298.17	1.06930	334.1	359.4	105.0	1.0758	270.7
60.374	1101.77	298.16	1.06930	326.1	361.8	108.6	1.1096	270.5
70.129	1105.23	298.15	1.06930	318.9	364.1	112.1	1.1415	270.2
80.627	1108.86	298.14	1.06930	311.7	366.4	115.8	1.1755	269.8
90.034	1112.04	298.15	1.06930	305.6	368.6	119.2	1.2062	269.6
99.741	1115.25	298.13	1.06930	299.7	370.7	122.6	1.2371	269.1
0.101	1072.26	313.14	1.06930	381.5	441.0	148.9	1.1559	361.9
0.803	1072.55	313.13	1.06930	380.8	440.8	149.0	1.1577	361.7
5.221	1074.33	313.14	1.06930	375.9	439.7	149.9	1.1698	361.1
10.135	1076.30	313.14	1.06930	370.7	438.5	150.9	1.1831	360.3
20.279	1080.30	313.15	1.06930	360.3	436.2	153.1	1.2106	358.8
30.395	1084.21	313.15	1.06930	350.7	434.1	155.2	1.2378	357.2
40.404	1087.99	313.15	1.06930	341.7	432.1	157.3	1.2644	355.5
50.478	1091.71	313.15	1.06930	333.3	430.3	159.3	1.2910	353.8
60.284	1095.25	313.14	1.06930	325.6	428.6	161.3	1.3165	352.0
70.499	1098.85	313.15	1.06930	318.0	427.1	163.5	1.3430	350.1
80.431	1102.27	313.15	1.06930	311.1	425.7	165.5	1.3684	348.1

90.007	1105.49	313.15	1.06930	304.8	424.4	167.4	1.3925	346.1
100.024	1108.77	313.15	1.06930	298.6	423.2	169.4	1.4174	343.8
0.101	1061.82	333.15	1.06930	392.7	537.8	231.1	1.3694	456.1
1.134	1062.24	333.17	1.06930	391.5	537.0	231.0	1.3716	455.8
5.287	1063.95	333.16	1.06930	386.7	533.5	230.5	1.3797	454.4
10.366	1066.01	333.15	1.06930	380.9	529.3	229.9	1.3896	452.6
20.490	1070.07	333.15	1.06930	370.0	521.4	228.7	1.4093	449.0
30.371	1073.95	333.15	1.06930	359.9	514.1	227.7	1.4282	445.4
40.234	1077.74	333.16	1.06930	350.6	507.2	226.8	1.4468	441.8
50.341	1081.54	333.15	1.06930	341.5	500.5	225.9	1.4654	437.9
60.172	1085.17	333.15	1.06930	333.3	494.3	225.1	1.4833	434.0
70.700	1088.96	333.15	1.06930	325.0	488.1	224.3	1.5020	429.7
79.959	1092.22	333.15	1.06930	318.1	482.9	223.6	1.5182	425.8
90.037	1095.69	333.15	1.06930	311.0	477.6	222.9	1.5354	421.5
100.176	1099.10	333.14	1.06930	304.3	472.4	222.3	1.5523	416.9
0.101	1049.96	353.16	1.06930	414.9	582.3	274.9	1.4035	495.6
1.399	1050.51	353.17	1.06930	413.2	580.6	274.3	1.4051	494.9
5.352	1052.18	353.14	1.06930	408.1	575.5	272.4	1.4102	492.7
10.353	1054.28	353.14	1.06930	401.8	569.2	270.1	1.4165	489.9
20.141	1058.32	353.15	1.06930	390.1	557.3	265.6	1.4284	484.3
30.271	1062.42	353.15	1.06930	378.8	545.6	261.2	1.4404	478.4
40.174	1066.33	353.15	1.06930	368.5	534.9	257.1	1.4516	472.5
49.933	1070.10	353.15	1.06930	358.9	524.8	253.3	1.4623	466.5
60.074	1073.93	353.16	1.06930	349.6	514.9	249.4	1.4728	460.1
70.591	1077.81	353.16	1.06930	340.6	505.2	245.5	1.4833	453.3
80.105	1081.23	353.16	1.06930	332.9	496.8	242.2	1.4924	447.0
90.302	1084.81	353.15	1.06930	325.2	488.3	238.7	1.5017	440.0
99.720	1088.04	353.15	1.06930	318.5	480.8	235.6	1.5099	433.5
0.101	1103.97	273.15	1.35223	383.6	197.1	25.1	0.5139	140.3
1.569	1104.58	273.18	1.35223	381.9	199.2	25.7	0.5216	140.9
5.099	1106.04	273.15	1.35223	378.0	203.2	27.0	0.5377	141.8
10.269	1108.17	273.15	1.35223	372.3	209.5	29.0	0.5627	143.4
20.239	1112.22	273.13	1.35223	361.8	220.9	33.1	0.6107	146.5
30.357	1116.26	273.14	1.35223	351.8	232.4	37.6	0.6606	150.1
40.070	1120.06	273.14	1.35223	342.7	242.9	42.0	0.7087	153.5
50.031	1123.88	273.15	1.35223	334.0	253.3	46.7	0.7585	157.2
59.828	1127.57	273.16	1.35223	325.9	263.3	51.5	0.8079	160.9
70.001	1131.33	273.16	1.35223	317.9	273.2	56.7	0.8593	164.7
77.812	1134.16	273.16	1.35223	312.1	280.6	60.7	0.8989	167.7
89.802	1138.41	273.15	1.35223	303.8	291.5	67.1	0.9595	172.3
99.885	1141.90	273.15	1.35223	297.2	300.4	72.6	1.0108	176.2
0.101	1103.06	277.15	1.35223	378.9	226.7	34.1	0.5982	165.7
0.882	1103.38	277.17	1.35223	378.0	227.7	34.4	0.6022	166.0
5.381	1105.23	277.17	1.35223	373.0	232.3	36.3	0.6227	167.2
10.250	1107.22	277.15	1.35223	367.8	237.0	38.2	0.6445	168.4
20.124	1111.18	277.14	1.35223	357.6	246.6	42.4	0.6896	171.0
30.226	1115.16	277.15	1.35223	347.8	256.2	46.9	0.7366	173.9
40.117	1118.98	277.17	1.35223	338.7	265.2	51.4	0.7831	176.9

50.300	1122.84	277.16	1.35223	329.9	274.1	56.2	0.8307	179.9
59.752	1126.34	277.16	1.35223	322.3	282.0	60.7	0.8751	182.8
70.038	1130.08	277.15	1.35223	314.4	290.4	65.8	0.9235	185.9
78.843	1133.21	277.15	1.35223	308.1	297.3	70.2	0.9651	188.6
90.011	1137.10	277.15	1.35223	300.4	305.8	75.9	1.0180	192.1
99.860	1140.45	277.15	1.35223	294.1	313.1	81.0	1.0646	195.2
0.101	1101.44	283.15	1.35223	373.5	269.4	50.0	0.7214	204.2
1.583	1102.04	283.16	1.35223	371.8	270.6	50.6	0.7278	204.5
5.256	1103.52	283.14	1.35223	367.9	273.2	52.1	0.7427	205.0
10.148	1105.48	283.15	1.35223	362.7	276.9	54.1	0.7634	206.0
20.121	1109.42	283.17	1.35223	352.6	284.1	58.4	0.8059	208.1
30.226	1113.33	283.16	1.35223	343.0	291.0	62.8	0.8484	210.0
40.021	1117.06	283.15	1.35223	334.2	297.5	67.1	0.8900	212.0
50.347	1120.91	283.15	1.35223	325.5	304.1	71.8	0.9343	214.2
60.620	1124.67	283.15	1.35223	317.3	310.5	76.5	0.9785	216.4
69.954	1128.01	283.15	1.35223	310.3	316.1	80.8	1.0187	218.5
76.545	1130.34	283.14	1.35223	305.6	320.0	83.9	1.0470	219.9
90.072	1135.01	283.14	1.35223	296.4	327.7	90.4	1.1055	222.9
99.871	1138.31	283.15	1.35223	290.2	333.1	95.1	1.1480	225.2
0.101	1098.02	293.15	1.35223	368.2	336.5	82.1	0.9139	267.8
1.715	1098.67	293.14	1.35223	366.4	337.0	82.7	0.9196	267.9
5.065	1100.01	293.15	1.35223	362.8	338.2	84.0	0.9322	268.2
9.769	1101.87	293.16	1.35223	357.9	339.9	85.9	0.9496	268.6
20.225	1105.95	293.15	1.35223	347.5	343.3	89.9	0.9879	269.4
30.361	1109.82	293.15	1.35223	338.0	346.6	93.9	1.0253	270.2
40.274	1113.53	293.15	1.35223	329.3	349.7	97.8	1.0619	271.0
50.058	1117.12	293.15	1.35223	321.2	352.7	101.6	1.0981	271.8
59.911	1120.67	293.15	1.35223	313.5	355.6	105.5	1.1346	272.7
70.236	1124.30	293.16	1.35223	305.8	358.7	109.7	1.1728	273.6
78.874	1127.28	293.17	1.35223	299.8	361.2	113.2	1.2049	274.4
90.077	1131.05	293.15	1.35223	292.4	364.2	117.6	1.2456	275.1
100.053	1134.34	293.13	1.35223	286.2	366.8	121.5	1.2817	275.7
0.101	1096.03	298.15	1.35223	367.0	368.1	100.4	1.0028	298.9
1.542	1096.61	298.15	1.35223	365.4	368.3	100.9	1.0078	298.9
5.056	1098.01	298.16	1.35223	361.7	368.9	102.2	1.0201	299.1
10.033	1099.98	298.15	1.35223	356.5	369.7	103.9	1.0371	299.2
20.095	1103.90	298.15	1.35223	346.5	371.3	107.5	1.0718	299.5
30.015	1107.68	298.14	1.35223	337.2	372.9	111.0	1.1058	299.7
40.059	1111.43	298.14	1.35223	328.4	374.5	114.5	1.1404	299.9
49.698	1114.96	298.15	1.35223	320.3	376.0	118.0	1.1738	300.3
60.099	1118.68	298.15	1.35223	312.2	377.6	121.7	1.2094	300.5
70.024	1122.15	298.15	1.35223	304.9	379.1	125.2	1.2433	300.7
79.654	1125.44	298.15	1.35223	298.2	380.6	128.6	1.2760	300.8
90.097	1128.92	298.16	1.35223	291.4	382.1	132.4	1.3114	300.9
100.044	1132.16	298.15	1.35223	285.3	383.5	135.8	1.3446	300.8
0.101	1089.15	313.15	1.35223	368.7	453.8	160.6	1.2309	385.4
1.967	1089.90	313.16	1.35223	366.6	453.2	161.0	1.2364	385.2
5.033	1091.12	313.15	1.35223	363.3	452.2	161.6	1.2449	384.8

9.970	1093.08	313.18	1.35223	358.0	450.8	162.7	1.2594	384.4
20.282	1097.11	313.18	1.35223	347.5	447.7	164.7	1.2885	383.3
30.358	1100.95	313.17	1.35223	337.9	444.9	166.6	1.3166	382.0
40.226	1104.64	313.15	1.35223	329.1	442.3	168.5	1.3438	380.6
50.088	1108.24	313.15	1.35223	320.8	439.9	170.4	1.3711	379.3
59.852	1111.73	313.14	1.35223	313.1	437.6	172.3	1.3977	377.8
69.915	1115.24	313.15	1.35223	305.6	435.5	174.3	1.4252	376.4
79.815	1118.62	313.15	1.35223	298.6	433.5	176.2	1.4518	374.8
90.223	1122.08	313.15	1.35223	291.7	431.5	178.2	1.4794	373.1
99.641	1125.13	313.16	1.35223	285.8	429.9	180.0	1.5042	371.4
0.101	1078.51	333.15	1.35223	380.2	536.9	234.2	1.4121	470.3
1.781	1079.20	333.14	1.35223	378.2	535.4	234.0	1.4156	469.8
5.372	1080.67	333.14	1.35223	374.0	532.4	233.6	1.4235	468.8
10.346	1082.68	333.15	1.35223	368.4	528.4	233.2	1.4343	467.5
20.280	1086.64	333.14	1.35223	357.7	520.5	232.3	1.4554	464.6
30.069	1090.45	333.15	1.35223	347.7	513.3	231.5	1.4760	461.7
40.073	1094.25	333.15	1.35223	338.3	506.3	230.7	1.4967	458.5
50.035	1097.95	333.15	1.35223	329.4	499.6	230.0	1.5168	455.3
59.840	1101.50	333.15	1.35223	321.2	493.4	229.3	1.5362	452.0
69.949	1105.07	333.15	1.35223	313.3	487.4	228.6	1.5558	448.4
79.160	1108.25	333.15	1.35223	306.5	482.2	228.0	1.5733	445.0
89.898	1111.85	333.15	1.35223	299.0	476.4	227.4	1.5932	440.9
99.583	1115.01	333.15	1.35223	292.7	471.4	226.9	1.6107	437.0
0.101	1066.77	353.15	1.35223	400.7	559.7	258.8	1.3970	493.2
2.314	1067.71	353.14	1.35223	397.8	557.1	258.1	1.4005	492.3
5.360	1069.00	353.15	1.35223	393.9	553.5	257.0	1.4053	490.9
10.396	1071.10	353.15	1.35223	387.6	547.7	255.2	1.4131	488.6
20.289	1075.17	353.15	1.35223	375.9	536.8	251.8	1.4281	484.0
30.347	1079.21	353.15	1.35223	364.8	526.3	248.5	1.4428	479.2
39.932	1082.96	353.14	1.35223	354.9	516.9	245.5	1.4564	474.4
50.188	1086.88	353.14	1.35223	345.0	507.3	242.4	1.4704	469.1
59.901	1090.49	353.14	1.35223	336.2	498.7	239.5	1.4831	463.9
69.947	1094.12	353.15	1.35223	327.7	490.2	236.6	1.4957	458.3
79.163	1097.37	353.15	1.35223	320.4	482.8	234.1	1.5068	453.0
90.064	1101.10	353.15	1.35223	312.3	474.5	231.2	1.5194	446.5
99.844	1104.34	353.14	1.35223	305.5	467.5	228.8	1.5302	440.5
0.101	1130.34	273.14	1.81668	367.7	239.4	37.7	0.6510	177.7
1.674	1130.99	273.14	1.81668	366.1	241.1	38.4	0.6586	178.2
5.358	1132.49	273.15	1.81668	362.4	245.1	40.0	0.6764	179.4
10.356	1134.51	273.14	1.81668	357.5	250.3	42.2	0.7002	180.9
20.354	1138.50	273.17	1.81668	348.1	260.8	46.9	0.7492	184.3
30.149	1142.34	273.18	1.81668	339.4	270.6	51.6	0.7970	187.6
40.299	1146.25	273.19	1.81668	331.0	280.3	56.6	0.8470	191.1
50.072	1149.93	273.18	1.81668	323.3	289.3	61.5	0.8948	194.4
59.706	1153.50	273.18	1.81668	316.2	298.0	66.5	0.9424	197.7
70.248	1157.33	273.16	1.81668	308.8	307.1	72.1	0.9943	201.4
80.329	1160.91	273.15	1.81668	302.2	315.5	77.5	1.0441	204.9
90.502	1164.46	273.14	1.81668	295.8	323.8	83.2	1.0947	208.5

100.070	1167.72	273.14	1.81668	290.2	331.5	88.6	1.1422	211.9
0.101	1129.39	277.13	1.81668	363.3	265.3	47.5	0.7303	202.3
1.081	1129.78	277.11	1.81668	362.4	266.0	47.9	0.7342	202.4
5.036	1131.36	277.11	1.81668	358.5	269.5	49.6	0.7517	203.3
9.969	1133.31	277.12	1.81668	353.8	273.8	51.8	0.7739	204.5
20.693	1137.50	277.14	1.81668	344.0	282.8	56.7	0.8223	207.2
30.550	1141.28	277.15	1.81668	335.5	290.8	61.2	0.8668	209.7
40.110	1144.89	277.16	1.81668	327.7	298.3	65.7	0.9102	212.2
50.277	1148.67	277.16	1.81668	319.9	306.0	70.6	0.9566	214.8
60.708	1152.47	277.16	1.81668	312.3	313.6	75.7	1.0042	217.6
70.342	1155.93	277.16	1.81668	305.6	320.4	80.6	1.0484	220.2
80.066	1159.35	277.15	1.81668	299.3	327.1	85.5	1.0929	222.8
90.138	1162.84	277.15	1.81668	293.0	333.9	90.7	1.1394	225.6
99.887	1166.15	277.14	1.81668	287.3	340.2	95.7	1.1841	228.3
0.101	1127.53	283.15	1.81668	358.5	303.2	64.4	0.8457	239.3
1.064	1127.91	283.15	1.81668	357.6	303.8	64.8	0.8495	239.5
5.856	1129.80	283.14	1.81668	353.0	306.6	66.8	0.8686	240.1
10.305	1131.53	283.14	1.81668	348.9	309.3	68.6	0.8865	240.7
20.143	1135.33	283.15	1.81668	340.0	315.1	72.8	0.9266	242.2
30.222	1139.16	283.15	1.81668	331.5	320.8	77.2	0.9676	243.8
40.241	1142.89	283.15	1.81668	323.5	326.2	81.5	1.0084	245.3
50.075	1146.49	283.15	1.81668	316.1	331.4	85.8	1.0485	246.8
60.608	1150.27	283.15	1.81668	308.6	336.8	90.5	1.0914	248.4
70.198	1153.64	283.15	1.81668	302.1	341.5	94.8	1.1304	249.9
79.869	1156.99	283.14	1.81668	295.9	346.1	99.1	1.1697	251.3
90.049	1160.44	283.15	1.81668	289.7	350.9	103.7	1.2111	252.9
99.715	1163.65	283.16	1.81668	284.2	355.3	108.1	1.2503	254.3
0.101	1123.78	293.16	1.81668	354.2	363.9	97.5	1.0273	301.1
0.950	1124.11	293.17	1.81668	353.4	364.2	97.9	1.0305	301.2
5.253	1125.77	293.15	1.81668	349.4	365.0	99.3	1.0448	301.0
10.131	1127.64	293.13	1.81668	344.9	366.1	101.0	1.0612	300.9
20.261	1131.48	293.14	1.81668	336.1	368.4	104.6	1.0962	301.1
30.291	1135.21	293.15	1.81668	327.7	370.6	108.2	1.1308	301.2
40.147	1138.81	293.15	1.81668	320.0	372.7	111.7	1.1644	301.2
50.042	1142.37	293.15	1.81668	312.7	374.7	115.2	1.1981	301.2
60.108	1145.93	293.15	1.81668	305.6	376.6	118.7	1.2323	301.1
70.311	1149.47	293.15	1.81668	298.8	378.5	122.3	1.2667	301.0
80.152	1152.83	293.15	1.81668	292.6	380.4	125.7	1.2998	300.9
89.974	1156.12	293.15	1.81668	286.7	382.1	129.1	1.3326	300.7
99.915	1159.39	293.15	1.81668	281.1	383.8	132.5	1.3655	300.4
0.101	1121.59	298.15	1.81668	353.6	392.8	116.0	1.1109	331.1
1.028	1121.95	298.16	1.81668	352.7	392.9	116.3	1.1140	331.1
5.145	1123.53	298.15	1.81668	348.9	393.2	117.6	1.1270	330.9
10.976	1125.76	298.15	1.81668	343.6	393.6	119.4	1.1456	330.6
20.036	1129.17	298.15	1.81668	335.7	394.2	122.2	1.1744	330.1
30.247	1132.96	298.16	1.81668	327.2	394.9	125.4	1.2069	329.6
40.169	1136.58	298.17	1.81668	319.5	395.6	128.5	1.2384	329.1
50.108	1140.14	298.16	1.81668	312.1	396.2	131.5	1.2693	328.3

60.217	1143.71	298.15	1.81668	305.0	396.7	134.5	1.3006	327.6
69.911	1147.06	298.15	1.81668	298.6	397.2	137.4	1.3304	326.8
80.312	1150.60	298.14	1.81668	292.0	397.8	140.4	1.3621	325.8
90.671	1154.05	298.14	1.81668	285.9	398.3	143.4	1.3934	324.8
99.345	1156.89	298.15	1.81668	280.9	398.8	145.9	1.4195	323.9
0.101	1114.12	313.16	1.81668	356.3	471.5	175.4	1.3234	414.3
1.568	1114.70	313.14	1.81668	354.8	470.9	175.5	1.3270	414.0
5.149	1116.11	313.15	1.81668	351.4	469.7	176.2	1.3368	413.5
10.495	1118.19	313.16	1.81668	346.3	468.0	177.1	1.3512	412.6
20.264	1121.94	313.16	1.81668	337.6	464.8	178.6	1.3769	410.9
30.226	1125.69	313.15	1.81668	329.2	461.6	180.1	1.4024	408.9
40.366	1129.42	313.15	1.81668	321.1	458.6	181.6	1.4280	406.8
50.002	1132.89	313.14	1.81668	313.9	455.7	182.9	1.4517	404.6
60.214	1136.49	313.13	1.81668	306.7	452.8	184.2	1.4763	402.0
70.148	1139.91	313.13	1.81668	300.1	450.1	185.4	1.4997	399.4
79.744	1143.14	313.13	1.81668	294.1	447.5	186.5	1.5217	396.8
89.845	1146.46	313.14	1.81668	288.1	444.9	187.7	1.5444	393.8
100.018	1149.72	313.14	1.81668	282.4	442.4	188.7	1.5665	390.5
0.101	1102.95	333.15	1.81668	366.8	540.7	240.8	1.4743	491.1
1.441	1103.49	333.15	1.81668	365.4	539.8	240.7	1.4772	490.7
5.263	1105.00	333.16	1.81668	361.6	537.2	240.6	1.4855	489.7
10.296	1106.99	333.15	1.81668	356.7	533.7	240.3	1.4963	488.2
20.428	1110.92	333.15	1.81668	347.3	527.0	239.8	1.5174	485.1
30.206	1114.65	333.15	1.81668	338.8	520.8	239.2	1.5371	481.9
40.138	1118.37	333.16	1.81668	330.6	514.6	238.6	1.5565	478.4
50.198	1122.07	333.15	1.81668	322.8	508.5	237.8	1.5753	474.6
60.263	1125.70	333.15	1.81668	315.4	502.5	237.0	1.5935	470.6
70.592	1129.34	333.15	1.81668	308.2	496.6	236.1	1.6112	466.2
80.088	1132.63	333.15	1.81668	302.0	491.4	235.1	1.6268	461.9
90.226	1136.07	333.15	1.81668	295.8	485.9	234.0	1.6427	457.0
100.056	1139.34	333.16	1.81668	290.0	480.6	232.9	1.6574	452.1
0.101	1090.82	353.16	1.81668	382.7	536.2	243.2	1.4012	494.7
1.635	1091.46	353.16	1.81668	381.0	535.0	243.0	1.4041	494.2
5.377	1093.01	353.17	1.81668	377.0	532.0	242.6	1.4111	493.0
10.278	1095.02	353.16	1.81668	371.9	528.2	242.0	1.4203	491.3
20.232	1099.05	353.16	1.81668	362.1	520.7	240.6	1.4380	487.6
30.349	1103.05	353.15	1.81668	352.7	513.2	239.1	1.4551	483.5
40.261	1106.89	353.15	1.81668	344.1	506.1	237.5	1.4709	479.2
50.002	1110.58	353.15	1.81668	336.2	499.3	235.8	1.4854	474.6
59.972	1114.27	353.14	1.81668	328.5	492.6	234.1	1.4993	469.5
70.351	1118.02	353.15	1.81668	321.1	485.7	232.0	1.5126	463.8
79.907	1121.40	353.15	1.81668	314.6	479.5	230.1	1.5239	458.3
90.125	1124.92	353.15	1.81668	308.1	473.0	227.9	1.5351	452.0
99.942	1128.22	353.15	1.81668	302.3	466.9	225.8	1.5448	445.6

TABLE S-II. Apparent molar volumes of $Ca(CH_3COO)_2$ in water

T / K	m / mol kg^{-1}	V_ϕ / cm^3·mol^{-1}							
		0.04918	0.09367	0.23797	0.36365	0.85923	1.06930	1.35223	1.81668
		p / MPa							
		48.705	55.462	62.296	65.154	70.572	71.834	73.418	76.334
273.16	5.0	49.863	56.422	62.996	65.758	70.955	72.185	73.734	76.578
273.16	0.101	51.009	57.268	63.690	66.355	71.334	72.532	74.054	76.819
273.16	5.0	53.462	59.244	65.094	67.504	72.091	73.216	74.676	77.289
273.16	10.0	55.861	61.072	66.385	68.600	72.809	73.866	75.263	77.732
273.16	20.0	58.208	62.861	67.609	69.620	73.489	74.494	75.832	78.150
273.16	30.0	60.508	64.512	68.767	70.593	74.134	75.083	76.382	78.556
273.16	40.0	62.378	66.028	69.782	71.468	74.732	75.643	76.902	78.927
273.16	50.0	64.212	67.315	70.777	72.274	75.308	76.183	77.397	79.287
273.16	60.0	65.633	68.478	71.597	72.988	75.840	76.687	77.871	79.625
273.16	70.0	66.465	69.225	72.324	73.612	76.320	77.156	78.315	79.936
273.16	80.0	66.909	69.859	72.921	74.199	76.780	77.600	78.739	80.238
273.16	90.0	52.865	58.176	63.822	66.370	71.432	72.656	74.210	77.041
273.16	100.0	53.608	58.810	64.391	66.887	71.766	72.967	74.494	77.256
277.15	0.101	54.395	59.465	64.966	67.379	72.111	73.277	74.777	77.475
277.15	5.0	56.125	61.056	66.132	68.397	72.776	73.887	75.332	77.888
277.15	10.0	58.112	62.561	67.293	69.353	73.410	74.469	75.866	78.291
277.15	20.0	60.019	64.013	68.381	70.257	74.029	75.038	76.387	78.674
277.15	30.0	61.710	65.444	69.370	71.118	74.614	75.579	76.885	79.035
277.15	40.0	63.438	66.682	70.314	71.920	75.158	76.094	77.369	79.380
277.15	50.0	64.873	67.859	71.186	72.645	75.676	76.579	77.821	79.707
277.15	60.0	66.075	68.805	71.920	73.302	76.174	77.046	78.258	80.017
277.15	70.0	66.723	69.653	72.569	73.901	76.621	77.480	78.675	80.307
277.15	80.0	67.254	70.136	73.146	74.398	77.043	77.894	79.074	80.580
277.15	90.0	57.017	60.776	65.466	67.770	72.499	73.692	75.219	77.964
277.15	100.0	57.320	61.282	65.940	68.170	72.782	73.961	75.462	78.143
283.15	0.101	57.621	61.679	66.410	68.592	73.073	74.219	75.710	78.330
283.15	5.0	58.807	62.875	67.375	69.450	73.645	74.743	76.190	78.687
283.15	10.0	60.163	64.045	68.319	70.235	74.182	75.247	76.653	79.032
283.15	20.0	61.491	65.189	69.242	71.030	74.719	75.741	77.115	79.365
283.15	30.0	62.790	66.310	70.066	71.756	75.223	76.216	77.553	79.680
283.15	40.0	64.257	67.408	70.914	72.468	75.716	76.673	77.976	79.985
283.15	50.0	65.504	68.384	71.666	73.114	76.168	77.104	78.392	80.274
283.15	60.0	66.348	69.243	72.325	73.671	76.600	77.518	78.780	80.543
283.15	70.0	66.988	69.887	72.894	74.192	77.003	77.908	79.155	80.801
283.15	80.0	67.428	70.421	73.413	74.677	77.388	78.282	79.516	81.046
283.15	90.0	60.414	63.392	67.357	69.413	73.905	75.079	76.593	79.240
283.15	100.0	60.294	63.567	67.697	69.750	74.124	75.279	76.788	79.383
293.15	0.101	60.578	63.952	68.077	70.085	74.353	75.495	76.981	79.528
293.15	5.0	61.136	64.708	68.822	70.743	74.804	75.911	77.375	79.809
293.15	10.0	61.678	65.446	69.509	71.359	75.232	76.309	77.746	80.080
293.15	20.0	62.798	66.374	70.264	72.015	75.664	76.717	78.125	80.345
293.15	30.0	63.698	67.181	70.962	72.605	76.063	77.099	78.482	80.594
293.15	40.0	64.774	68.072	71.606	73.183	76.467	77.474	78.840	80.844

293.15	50.0	65.830	68.947	72.278	73.724	76.851	77.842	79.191	81.079
293.15	60.0	66.483	69.604	72.779	74.177	77.195	78.176	79.516	81.294
293.15	70.0	67.125	70.250	73.309	74.647	77.544	78.514	79.842	81.511
293.15	80.0	67.565	70.685	73.752	75.032	77.865	78.828	80.149	81.710
293.15	90.0	61.187	64.106	68.004	70.053	74.481	75.659	77.178	79.791
293.15	100.0	61.266	64.384	68.342	70.361	74.676	75.839	77.349	79.921
298.15	0.101	61.343	64.659	68.678	70.666	74.881	76.035	77.526	80.049
298.15	5.0	61.693	65.305	69.337	71.240	75.283	76.403	77.874	80.301
298.15	10.0	62.231	65.935	69.981	71.827	75.676	76.763	78.215	80.543
298.15	20.0	63.150	66.757	70.652	72.401	76.060	77.133	78.556	80.780
298.15	30.0	64.246	67.665	71.349	72.964	76.437	77.487	78.898	81.006
298.15	40.0	65.126	68.454	71.952	73.515	76.806	77.834	79.227	81.229
298.15	50.0	65.795	69.125	72.504	73.978	77.146	78.157	79.536	81.438
298.15	60.0	66.643	69.884	73.045	74.431	77.480	78.483	79.846	81.637
298.15	70.0	67.285	70.430	73.537	74.850	77.785	78.786	80.145	81.828
298.15	80.0	67.726	70.866	73.941	75.211	78.074	79.074	80.425	82.011
298.15	90.0	63.073	65.906	69.643	71.613	75.943	77.114	78.641	81.227
298.15	100.0	63.143	66.071	69.936	71.863	76.089	77.254	78.773	81.321
313.15	0.101	63.212	66.342	70.184	72.111	76.245	77.392	78.910	81.413
313.15	5.0	63.549	66.873	70.754	72.597	76.550	77.672	79.174	81.595
313.15	10.0	64.076	67.496	71.312	73.073	76.837	77.946	79.439	81.768
313.15	20.0	64.789	68.106	71.857	73.538	77.128	78.223	79.698	81.937
313.15	30.0	65.487	68.806	72.391	73.967	77.414	78.494	79.953	82.103
313.15	40.0	66.563	69.595	72.954	74.413	77.704	78.760	80.217	82.266
313.15	50.0	67.425	70.266	73.426	74.824	77.967	79.021	80.469	82.414
313.15	60.0	68.077	70.824	73.849	75.174	78.213	79.268	80.703	82.555
313.15	70.0	68.716	71.471	74.264	75.518	78.465	79.510	80.939	82.699
313.15	80.0	69.535	72.007	74.670	75.855	78.702	79.748	81.179	82.830
313.15	90.0	66.124	68.187	71.502	73.350	77.442	78.570	80.061	82.665
313.15	100.0	65.975	68.347	71.709	73.516	77.540	78.661	80.154	82.730
333.15	0.101	66.244	68.616	71.957	73.736	77.635	78.751	80.246	82.793
333.15	5.0	66.565	69.142	72.443	74.112	77.846	78.946	80.441	82.917
333.15	10.0	67.081	69.655	72.875	74.479	78.040	79.126	80.625	83.032
333.15	20.0	67.787	70.263	73.339	74.864	78.252	79.320	80.811	83.145
333.15	30.0	68.680	70.963	73.793	75.214	78.447	79.510	81.001	83.255
333.15	40.0	69.355	71.544	74.196	75.529	78.626	79.686	81.180	83.351
333.15	50.0	70.017	72.114	74.590	75.836	78.812	79.867	81.362	83.452
333.15	60.0	70.863	72.672	74.976	76.138	78.982	80.045	81.541	83.539
333.15	70.0	71.498	73.220	75.314	76.406	79.149	80.210	81.716	83.624
333.15	80.0	71.928	73.554	75.605	76.643	79.312	80.371	81.882	83.697
333.15	90.0	67.285	69.249	72.454	74.246	78.099	79.124	80.513	83.154
333.15	100.0	67.133	69.301	72.622	74.387	78.163	79.179	80.579	83.209
353.15	0.101	67.195	69.464	72.788	74.527	78.214	79.233	80.651	83.275
353.15	5.0	67.101	69.783	73.112	74.799	78.335	79.347	80.792	83.386
353.15	10.0	67.423	70.201	73.470	75.091	78.464	79.476	80.936	83.489
353.15	20.0	67.735	70.607	73.819	75.348	78.576	79.592	81.077	83.583
353.15	30.0	68.037	70.895	74.116	75.569	78.685	79.713	81.214	83.669
353.15	40.0	68.331	71.282	74.405	75.784	78.789	79.822	81.347	83.741

353.15	50.0	68.819	71.660	74.645	75.965	78.891	79.936	81.478	83.806
353.15	60.0	69.094	72.029	74.921	76.169	79.000	80.057	81.613	83.875
353.15	70.0	69.362	72.284	75.107	76.314	79.095	80.156	81.745	83.926
353.15	80.0	69.425	72.429	75.247	76.428	79.165	80.253	81.859	83.964
353.15	90.0								
353.15	100.0								