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OFFICIAL AND TENTATIVE  
**METHODS OF ANALYSIS**  
OF THE  
**ASSOCIATION OF OFFICIAL  
AGRICULTURAL CHEMISTS**

AS COMPILED BY THE COMMITTEE ON REVISION OF METHODS  
(R. E. DOOLITTLE, Chairman, B. L. HARTWELL, G. W. HOOVER,  
A. J. PATTEN, A. F. SEEKER AND W. A. WITHERS)

WITH AN INTRODUCTION BY  
HARVEY W. WILEY  
HONORARY PRESIDENT OF THE ASSOCIATION

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*\*The term "water" used throughout this book indicates "distilled water".  
The abbreviation A. O. A. C. is recognized as official for the name of the Association of Official Agricultural Chemists. For this reason the letters J. A. O. A. C. are used in all bibliographies in referring to the Journal of the Association of Official Agricultural Chemists.*

10 *Degrees Brix, specific gravity, and degrees Baumé of sugar solutions.*

DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)	DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)
	4°	20°			4°	20°	
0.0	0.99823	1.00000	0.00	4.5	1.01586	1.01766	2.52
0.1	0.99862	1.00039	0.06	4.6	1.01628	1.01806	2.57
0.2	0.99901	1.00078	0.11	4.7	1.01666	1.01846	2.63
0.3	0.99940	1.00117	0.17	4.8	1.01706	1.01886	2.68
0.4	0.99979	1.00155	0.22	4.9	1.01746	1.01928	2.74
0.5	1.00017	1.00194	0.28	5.0	1.01785	1.01965	2.79
0.6	1.00056	1.00233	0.34	5.1	1.01825	1.02005	2.85
0.7	1.00095	1.00272	0.39	5.2	1.01865	1.02045	2.91
0.8	1.00134	1.00311	0.45	5.3	1.01905	1.02085	2.96
0.9	1.00173	1.00350	0.51	5.4	1.01945	1.02125	3.02
1.0	1.00212	1.00389	0.56	5.5	1.01985	1.02165	3.07
1.1	1.00251	1.00428	0.62	5.6	1.02025	1.02206	3.13
1.2	1.00290	1.00467	0.67	5.7	1.02065	1.02246	3.18
1.3	1.00329	1.00506	0.73	5.8	1.02105	1.02286	3.24
1.4	1.00368	1.00545	0.79	5.9	1.02145	1.02321	3.30
1.5	1.00406	1.00584	0.84	6.0	1.02186	1.02366	3.35
1.6	1.00445	1.00623	0.90	6.1	1.02226	1.02407	3.41
1.7	1.00484	1.00662	0.95	6.2	1.02266	1.02447	3.46
1.8	1.00523	1.00701	1.01	6.3	1.02306	1.02487	3.52
1.9	1.00562	1.00740	1.07	6.4	1.02346	1.02527	3.57
2.0	1.00602	1.00779	1.12	6.5	1.02387	1.02568	3.63
2.1	1.00641	1.00818	1.18	6.6	1.02427	1.02608	3.69
2.2	1.00680	1.00858	1.23	6.7	1.02467	1.02648	3.74
2.3	1.00719	1.00897	1.29	6.8	1.02508	1.02689	3.80
2.4	1.00759	1.00936	1.34	6.9	1.02548	1.02729	3.85
2.5	1.00797	1.00976	1.40	7.0	1.02588	1.02770	3.91
2.6	1.00836	1.01015	1.46	7.1	1.02629	1.02810	3.96
2.7	1.00876	1.01054	1.51	7.2	1.02669	1.02851	4.02
2.8	1.00915	1.01093	1.57	7.3	1.02710	1.02892	4.08
2.9	1.00954	1.01133	1.62	7.4	1.02750	1.02932	4.13
3.0	1.00993	1.01172	1.68	7.5	1.02791	1.02973	4.19
3.1	1.01033	1.01211	1.74	7.6	1.02832	1.03013	4.24
3.2	1.01072	1.01251	1.79	7.7	1.02872	1.03054	4.30
3.3	1.01112	1.01290	1.85	7.8	1.02913	1.03095	4.35
3.4	1.01151	1.01330	1.90	7.9	1.02954	1.03136	4.41
3.5	1.01190	1.01369	1.96	8.0	1.02994	1.03176	4.46
3.6	1.01230	1.01409	2.02	8.1	1.03035	1.03217	4.52
3.7	1.01269	1.01448	2.07	8.2	1.03076	1.03258	4.58
3.8	1.01309	1.01488	2.13	8.3	1.03116	1.03299	4.63
3.9	1.01348	1.01528	2.18	8.4	1.03157	1.03340	4.69
4.0	1.01388	1.01567	2.24	8.5	1.03198	1.03381	4.74
4.1	1.01428	1.01607	2.29	8.6	1.03239	1.03422	4.80
4.2	1.01467	1.01647	2.35	8.7	1.03280	1.03463	4.85
4.3	1.01507	1.01687	2.40	8.8	1.03321	1.03504	4.91
4.4	1.01547	1.01726	2.46	8.9	1.03362	1.03545	4.96

10 *Degrees Brix, specific gravity, and degrees Baumé of sugar solutions.—Continued.*

DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)	DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)
	4°	20°			4°	20°	
9.0	1.03403	1.03586	5.02	13.5	1.05278	1.05464	7.51
9.1	1.03444	1.03627	5.07	13.6	1.05320	1.05506	7.57
9.2	1.03485	1.03668	5.13	13.7	1.05363	1.05549	7.62
9.3	1.03526	1.03709	5.19	13.8	1.05405	1.05591	7.68
9.4	1.03567	1.03750	5.24	13.9	1.05448	1.05634	7.73
9.5	1.03608	1.03792	5.30	14.0	1.05490	1.05677	7.79
9.6	1.03649	1.03833	5.35	14.1	1.05532	1.05719	7.84
9.7	1.03691	1.03874	5.41	14.2	1.05575	1.05762	7.90
9.8	1.03732	1.03915	5.46	14.3	1.05618	1.05804	7.96
9.9	1.03773	1.03957	5.52	14.4	1.05660	1.05847	8.01
10.0	1.03814	1.03998	5.57	14.5	1.05703	1.05890	8.07
10.1	1.03856	1.04039	5.63	14.6	1.05746	1.05933	8.12
10.2	1.03897	1.04081	5.68	14.7	1.05788	1.05975	8.18
10.3	1.03938	1.04122	5.74	14.8	1.05831	1.06018	8.23
10.4	1.03980	1.04164	5.80	14.9	1.05874	1.06061	8.29
10.5	1.04021	1.04205	5.85	15.0	1.05916	1.06104	8.34
10.6	1.04063	1.04247	5.91	15.1	1.05959	1.06147	8.40
10.7	1.04104	1.04288	5.96	15.2	1.06002	1.06190	8.45
10.8	1.04146	1.04330	6.02	15.3	1.06045	1.06233	8.51
10.9	1.04187	1.04371	6.07	15.4	1.06088	1.06276	8.56
11.0	1.04229	1.04413	6.13	15.5	1.06131	1.06319	8.62
11.1	1.04270	1.04455	6.18	15.6	1.06174	1.06362	8.67
11.2	1.04312	1.04497	6.24	15.7	1.06217	1.06405	8.73
11.3	1.04354	1.04538	6.30	15.8	1.06260	1.06448	8.78
11.4	1.04395	1.04580	6.35	15.9	1.06303	1.06491	8.84
11.5	1.04437	1.04622	6.41	16.0	1.06346	1.06534	8.89
11.6	1.04479	1.04664	6.46	16.1	1.06389	1.06577	8.95
11.7	1.04521	1.04706	6.52	16.2	1.06432	1.06621	9.00
11.8	1.04562	1.04747	6.57	16.3	1.06476	1.06664	9.06
11.9	1.04604	1.04789	6.63	16.4	1.06519	1.06707	9.11
12.0	1.04646	1.04831	6.68	16.5	1.06562	1.06751	9.17
12.1	1.04688	1.04873	6.74	16.6	1.06605	1.06794	9.22
12.2	1.04730	1.04915	6.79	16.7	1.06649	1.06837	9.28
12.3	1.04772	1.04957	6.85	16.8	1.06692	1.06881	9.33
12.4	1.04814	1.04999	6.90	16.9	1.06736	1.06924	9.39
12.5	1.04856	1.05041	6.96	17.0	1.06779	1.06968	9.45
12.6	1.04898	1.05084	7.02	17.1	1.06822	1.07011	9.50
12.7	1.04940	1.05126	7.07	17.2	1.06866	1.07055	9.56
12.8	1.04982	1.05168	7.13	17.3	1.06909	1.07098	9.61
12.9	1.05024	1.05210	7.18	17.4	1.06953	1.07142	9.67
13.0	1.05066	1.05252	7.24	17.5	1.06996	1.07186	9.72
13.1	1.05109	1.05295	7.29	17.6	1.07040	1.07229	9.78
13.2	1.05151	1.05337	7.35	17.7	1.07084	1.07273	9.83
13.3	1.05193	1.05379	7.40	17.8	1.07127	1.07317	9.89
13.4	1.05236	1.05422	7.46	17.9	1.07171	1.07361	9.94

## 10 Degrees Brix, specific gravity, and degrees Baumé of sugar solutions.—Continued.

DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)	DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)
	4°	20°			4°	20°	
18.0	1.07215	1.07404	10.00	22.5	1.09216	1.09409	12.47
18.1	1.07258	1.07448	10.05	22.6	1.09261	1.09454	12.52
18.2	1.07302	1.07492	10.11	22.7	1.09306	1.09499	12.58
18.3	1.07346	1.07536	10.16	22.8	1.09351	1.09545	12.63
18.4	1.07390	1.07580	10.22	22.9	1.09397	1.09590	12.69
18.5	1.07434	1.07624	10.27	23.0	1.09442	1.09636	12.74
18.6	1.07478	1.07668	10.33	23.1	1.09487	1.09681	12.80
18.7	1.07522	1.07712	10.38	23.2	1.09533	1.09727	12.85
18.8	1.07566	1.07756	10.44	23.3	1.09578	1.09772	12.91
18.9	1.07610	1.07800	10.49	23.4	1.09624	1.09818	12.96
19.0	1.07654	1.07844	10.55	23.5	1.09669	1.09863	13.02
19.1	1.07698	1.07888	10.60	23.6	1.09715	1.09909	13.07
19.2	1.07742	1.07932	10.66	23.7	1.09760	1.09954	13.13
19.3	1.07786	1.07977	10.71	23.8	1.09806	1.10000	13.18
19.4	1.07830	1.08021	10.77	23.9	1.09851	1.10046	13.24
19.5	1.07874	1.08065	10.82	24.0	1.09897	1.10092	13.29
19.6	1.07919	1.08110	10.88	24.1	1.09943	1.10137	13.35
19.7	1.07963	1.08154	10.93	24.2	1.09989	1.10183	13.40
19.8	1.08007	1.08198	10.99	24.3	1.10034	1.10229	13.46
19.9	1.08052	1.08243	11.04	24.4	1.10080	1.10275	13.51
20.0	1.08096	1.08287	11.10	24.5	1.10126	1.10321	13.57
20.1	1.08140	1.08332	11.15	24.6	1.10172	1.10367	13.62
20.2	1.08185	1.08376	11.21	24.7	1.10218	1.10413	13.67
20.3	1.08229	1.08421	11.26	24.8	1.10264	1.10459	13.73
20.4	1.08274	1.08465	11.32	24.9	1.10310	1.10505	13.78
20.5	1.08318	1.08510	11.37	25.0	1.10356	1.10551	13.84
20.6	1.08363	1.08554	11.43	25.1	1.10402	1.10597	13.89
20.7	1.08407	1.08599	11.48	25.2	1.10448	1.10643	13.95
20.8	1.08452	1.08644	11.54	25.3	1.10494	1.10689	14.00
20.9	1.08497	1.08689	11.59	25.4	1.10540	1.10736	14.06
21.0	1.08541	1.08733	11.65	25.5	1.10586	1.10782	14.11
21.1	1.08586	1.08778	11.70	25.6	1.10632	1.10828	14.17
21.2	1.08631	1.08823	11.76	25.7	1.10679	1.10874	14.22
21.3	1.08676	1.08868	11.81	25.8	1.10725	1.10921	14.28
21.4	1.08720	1.08913	11.87	25.9	1.10771	1.10967	14.33
21.5	1.08765	1.08958	11.92	26.0	1.10818	1.11014	14.39
21.6	1.08810	1.09003	11.98	26.1	1.10864	1.11060	14.44
21.7	1.08855	1.09048	12.03	26.2	1.10910	1.11106	14.49
21.8	1.08900	1.09093	12.09	26.3	1.10957	1.11153	14.55
21.9	1.08945	1.09138	12.14	26.4	1.11003	1.11200	14.60
22.0	1.08990	1.09183	12.20	26.5	1.11050	1.11246	14.66
22.1	1.09035	1.09228	12.25	26.6	1.11096	1.11293	14.71
22.2	1.09080	1.09273	12.31	26.7	1.11143	1.11339	14.77
22.3	1.09125	1.09318	12.36	26.8	1.11190	1.11386	14.82
22.4	1.09170	1.09364	12.42	26.9	1.11236	1.11433	14.88



## 10 Degrees Brix, specific gravity, and degrees Baumé of sugar solutions.—Continued.

DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)	DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)
	4°	20°			4°	20°	
27.0	1.11283	1.11480	14.93	31.5	1.13418	1.13619	17.38
27.1	1.11330	1.11526	14.99	31.6	1.13466	1.13667	17.43
27.2	1.11376	1.11573	15.04	31.7	1.13515	1.13715	17.49
27.3	1.11423	1.11620	15.09	31.8	1.13563	1.13764	17.54
27.4	1.11470	1.11667	15.15	31.9	1.13611	1.13812	17.60
27.5	1.11517	1.11714	15.20	32.0	1.13660	1.13861	17.65
27.6	1.11564	1.11761	15.26	32.1	1.13708	1.13909	17.70
27.7	1.11610	1.11808	15.31	32.2	1.13756	1.13958	17.76
27.8	1.11657	1.11855	15.37	32.3	1.13805	1.14006	17.81
27.9	1.11704	1.11902	15.42	32.4	1.13853	1.14055	17.87
28.0	1.11751	1.11949	15.48	32.5	1.13902	1.14103	17.92
28.1	1.11798	1.11996	15.53	32.6	1.13951	1.14152	17.98
28.2	1.11845	1.12043	15.59	32.7	1.13999	1.14201	18.03
28.3	1.11892	1.12090	15.64	32.8	1.14048	1.14250	18.08
28.4	1.11940	1.12138	15.69	32.9	1.14097	1.14298	18.14
28.5	1.11987	1.12185	15.75	33.0	1.14145	1.14347	18.19
28.6	1.12034	1.12232	15.80	33.1	1.14194	1.14396	18.25
28.7	1.12081	1.12280	15.86	33.2	1.14243	1.14445	18.30
28.8	1.12128	1.12327	15.91	33.3	1.14292	1.14494	18.36
28.9	1.12176	1.12374	15.97	33.4	1.14340	1.14543	18.41
29.0	1.12223	1.12422	16.02	33.5	1.14389	1.14592	18.46
29.1	1.12270	1.12469	16.08	33.6	1.14438	1.14641	18.52
29.2	1.12318	1.12517	16.13	33.7	1.14487	1.14690	18.57
29.3	1.12365	1.12564	16.18	33.8	1.14536	1.14739	18.63
29.4	1.12413	1.12612	16.24	33.9	1.14585	1.14788	18.68
29.5	1.12460	1.12659	16.29	34.0	1.14634	1.14837	18.73
29.6	1.12508	1.12707	16.35	34.1	1.14684	1.14886	18.79
29.7	1.12556	1.12755	16.40	34.2	1.14733	1.14936	18.84
29.8	1.12603	1.12802	16.46	34.3	1.14782	1.14985	18.90
29.9	1.12651	1.12850	16.51	34.4	1.14831	1.15034	18.95
30.0	1.12698	1.12898	16.57	34.5	1.14880	1.15084	19.00
30.1	1.12746	1.12946	16.62	34.6	1.14930	1.15133	19.06
30.2	1.12794	1.12993	16.67	34.7	1.14979	1.15183	19.11
30.3	1.12842	1.13041	16.73	34.8	1.15029	1.15232	19.17
30.4	1.12890	1.13089	16.78	34.9	1.15078	1.15282	19.22
30.5	1.12937	1.13137	16.84	35.0	1.15128	1.15331	19.28
30.6	1.12985	1.13185	16.89	35.1	1.15177	1.15381	19.33
30.7	1.13033	1.13233	16.95	35.2	1.15226	1.15430	19.38
30.8	1.13081	1.13281	17.00	35.3	1.15276	1.15480	19.44
30.9	1.13129	1.13329	17.05	35.4	1.15326	1.15530	19.49
31.0	1.13177	1.13378	17.11	35.5	1.15375	1.15579	19.55
31.1	1.13225	1.13426	17.16	35.6	1.15425	1.15629	19.60
31.2	1.13274	1.13474	17.22	35.7	1.15475	1.15679	19.65
31.3	1.13322	1.13522	17.27	35.8	1.15524	1.15729	19.71
31.4	1.13370	1.13570	17.33	35.9	1.15574	1.15778	19.76

## 10 Degrees Brix, specific gravity, and degrees Baumé of sugar solutions.—Continued.

DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)	DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)
	4°	20°			4°	20°	
36.0	1.15624	1.15828	19.81	40.5	1.17901	1.18110	22.23
36.1	1.15674	1.15878	19.87	40.6	1.17953	1.18162	22.29
36.2	1.15724	1.15928	19.92	40.7	1.18004	1.18213	22.34
36.3	1.15773	1.15978	19.98	40.8	1.18056	1.18265	22.39
36.4	1.15823	1.16028	20.03	40.9	1.18108	1.18316	22.45
36.5	1.15873	1.16078	20.08	41.0	1.18159	1.18368	22.50
36.6	1.15923	1.16128	20.14	41.1	1.18211	1.18420	22.55
36.7	1.15973	1.16178	20.19	41.2	1.18262	1.18472	22.61
36.8	1.16023	1.16228	20.25	41.3	1.18314	1.18524	22.66
36.9	1.16073	1.16279	20.30	41.4	1.18366	1.18575	22.72
37.0	1.16124	1.16329	20.35	41.5	1.18418	1.18627	22.77
37.1	1.16174	1.16379	20.41	41.6	1.18470	1.18679	22.82
37.2	1.16224	1.16430	20.46	41.7	1.18522	1.18731	22.88
37.3	1.16274	1.16480	20.52	41.8	1.18573	1.18783	22.93
37.4	1.16324	1.16530	20.57	41.9	1.18625	1.18835	22.98
37.5	1.16375	1.16581	20.62	42.0	1.18677	1.18887	23.04
37.6	1.16425	1.16631	20.68	42.1	1.18729	1.18939	23.09
37.7	1.16476	1.16682	20.73	42.2	1.18781	1.18992	23.14
37.8	1.16526	1.16732	20.78	42.3	1.18834	1.19044	23.20
37.9	1.16576	1.16783	20.84	42.4	1.18886	1.19096	23.25
38.0	1.16627	1.16833	20.89	42.5	1.18938	1.19148	23.30
38.1	1.16678	1.16884	20.94	42.6	1.18990	1.19201	23.36
38.2	1.16728	1.16934	21.00	42.7	1.19042	1.19253	23.41
38.3	1.16779	1.16985	21.05	42.8	1.19095	1.19305	23.46
38.4	1.16829	1.17036	21.11	42.9	1.19147	1.19358	23.52
38.5	1.16880	1.17087	21.16	43.0	1.19199	1.19410	23.57
38.6	1.16931	1.17138	21.21	43.1	1.19252	1.19463	23.62
38.7	1.16982	1.17188	21.27	43.2	1.19304	1.19515	23.68
38.8	1.17032	1.17239	21.32	43.3	1.19356	1.19568	23.73
38.9	1.17083	1.17290	21.38	43.4	1.19409	1.19620	23.78
39.0	1.17134	1.17341	21.43	43.5	1.19462	1.19673	23.84
39.1	1.17183	1.17392	21.48	43.6	1.19514	1.19726	23.89
39.2	1.17236	1.17443	21.54	43.7	1.19567	1.19778	23.94
39.3	1.17287	1.17494	21.59	43.8	1.19619	1.19831	24.00
39.4	1.17338	1.17545	21.64	43.9	1.19672	1.19884	24.05
39.5	1.17389	1.17596	21.70	44.0	1.19725	1.19936	24.10
39.6	1.17440	1.17648	21.75	44.1	1.19778	1.19989	24.16
39.7	1.17491	1.17699	21.80	44.2	1.19830	1.20042	24.21
39.8	1.17542	1.17750	21.86	44.3	1.19883	1.20095	24.26
39.9	1.17594	1.17802	21.91	44.4	1.19936	1.20148	24.32
40.0	1.17645	1.17853	21.97	44.5	1.19989	1.20201	24.37
40.1	1.17696	1.17904	22.02	44.6	1.20042	1.20254	24.42
40.2	1.17747	1.17956	22.07	44.7	1.20095	1.20307	24.48
40.3	1.17799	1.18007	22.13	44.8	1.20148	1.20360	24.53
40.4	1.17850	1.18058	22.18	44.9	1.20201	1.20414	24.58

## 10 Degrees Brix, specific gravity, and degrees Baumé of sugar solutions.—Continued.

DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)	DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)
	4°	20°			4°	20°	
45.0	1.20254	1.20467	24.63	49.5	1.22682	1.22899	27.02
45.1	1.20307	1.20520	24.69	49.6	1.22737	1.22954	27.07
45.2	1.20360	1.20573	24.74	49.7	1.22792	1.23009	27.12
45.3	1.20414	1.20627	24.79	49.8	1.22847	1.23064	27.18
45.4	1.20467	1.20680	24.85	49.9	1.22902	1.23119	27.23
45.5	1.20520	1.20733	24.90	50.0	1.22957	1.23174	27.28
45.6	1.20573	1.20787	24.95	50.1	1.23012	1.23229	27.33
45.7	1.20627	1.20840	25.01	50.2	1.23067	1.23284	27.39
45.8	1.20680	1.20894	25.06	50.3	1.23122	1.23340	27.44
45.9	1.20734	1.20947	25.11	50.4	1.23177	1.23395	27.49
46.0	1.20787	1.21001	25.17	50.5	1.23232	1.23450	27.54
46.1	1.20840	1.21054	25.22	50.6	1.23287	1.23506	27.60
46.2	1.20894	1.21108	25.27	50.7	1.23343	1.23561	27.65
46.3	1.20948	1.21162	25.32	50.8	1.23398	1.23616	27.70
46.4	1.21001	1.21215	25.38	50.9	1.23453	1.23672	27.75
46.5	1.21055	1.21269	25.43	51.0	1.23508	1.23727	27.81
46.6	1.21109	1.21323	25.48	51.1	1.23564	1.23782	27.86
46.7	1.21162	1.21377	25.54	51.2	1.23619	1.23838	27.91
46.8	1.21216	1.21431	25.59	51.3	1.23675	1.23894	27.96
46.9	1.21270	1.21484	25.64	51.4	1.23730	1.23949	28.02
47.0	1.21324	1.21538	25.70	51.5	1.23786	1.24005	28.07
47.1	1.21378	1.21592	25.75	51.6	1.23841	1.24060	28.12
47.2	1.21432	1.21646	25.80	51.7	1.23897	1.24116	28.17
47.3	1.21486	1.21700	25.86	51.8	1.23953	1.24172	28.23
47.4	1.21540	1.21755	25.91	51.9	1.24008	1.24228	28.28
47.5	1.21594	1.21809	25.96	52.0	1.24064	1.24284	28.33
47.6	1.21648	1.21863	26.01	52.1	1.24120	1.24339	28.38
47.7	1.21702	1.21917	26.07	52.2	1.24176	1.24395	28.44
47.8	1.21756	1.21971	26.12	52.3	1.24232	1.24451	28.49
47.9	1.21810	1.22026	26.17	52.4	1.24287	1.34507	28.54
48.0	1.21864	1.22080	26.23	52.5	1.24343	1.24563	28.59
48.1	1.21918	1.22134	26.28	52.6	1.24399	1.24619	28.65
48.2	1.21973	1.22189	26.33	52.7	1.24455	1.24675	28.70
48.3	1.22027	1.22243	26.38	52.8	1.24511	1.24731	28.75
48.4	1.22082	1.22298	26.44	52.9	1.24567	1.24788	28.80
48.5	1.22136	1.22352	26.49	53.0	1.24623	1.24844	28.86
48.6	1.22190	1.22406	26.54	53.1	1.24680	1.24900	28.91
48.7	1.22245	1.22461	26.59	53.2	1.24736	1.24956	28.96
48.8	1.22300	1.22516	26.65	53.3	1.24792	1.25013	29.01
48.9	1.22354	1.22570	26.70	53.4	1.24848	1.25069	29.06
49.0	1.22409	1.22625	26.75	53.5	1.24905	1.25126	29.12
49.1	1.22463	1.22680	26.81	53.6	1.24961	1.25182	29.17
49.2	1.22518	1.22735	26.86	53.7	1.25017	1.25238	29.22
49.3	1.22573	1.22789	26.91	53.8	1.25074	1.25295	29.27
49.4	1.22627	1.22844	26.96	53.9	1.25130	1.25351	29.32

## 10 Degrees Brix, specific gravity, and degrees Baumé of sugar solutions.—Continued.

DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)	DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)
	4°	20°			4°	20°	
54.0	1.25187	1.25408	29.38	58.5	1.27768	1.27994	31.71
54.1	1.25243	1.25465	29.43	58.6	1.27826	1.28052	31.76
54.2	1.25300	1.25521	29.48	58.7	1.27884	1.28111	31.82
54.3	1.25356	1.25578	29.53	58.8	1.27943	1.28169	31.87
54.4	1.25413	1.25635	29.59	58.9	1.28001	1.28228	31.92
54.5	1.25470	1.25692	29.64	59.0	1.28060	1.28286	31.97
54.6	1.25526	1.25748	29.69	59.1	1.28118	1.28345	32.02
54.7	1.25583	1.25805	29.74	59.2	1.28176	1.28404	32.07
54.8	1.25640	1.25862	29.80	59.3	1.28235	1.28462	32.13
54.9	1.25697	1.25919	29.85	59.4	1.28294	1.28520	32.18
55.0	1.25754	1.25976	29.90	59.5	1.28352	1.28579	32.23
55.1	1.25810	1.26033	29.95	59.6	1.28411	1.28638	32.28
55.2	1.25867	1.26090	30.00	59.7	1.28469	1.28697	32.33
55.3	1.25924	1.26147	30.06	59.8	1.28528	1.28755	32.38
55.4	1.25982	1.26204	30.11	59.9	1.28587	1.28814	32.43
55.5	1.26039	1.26261	30.16	60.0	1.28646	1.28873	32.49
55.6	1.26096	1.26319	30.21	60.1	1.28704	1.28932	32.54
55.7	1.26153	1.26376	30.26	60.2	1.28763	1.28991	32.59
55.8	1.26210	1.26433	30.32	60.3	1.28822	1.29050	32.64
55.9	1.26267	1.26490	30.37	60.4	1.28881	1.29109	32.69
56.0	1.26324	1.26548	30.42	60.5	1.28940	1.29168	32.74
56.1	1.26382	1.26605	30.47	60.6	1.28999	1.29227	32.79
56.2	1.26439	1.26663	30.52	60.7	1.29058	1.29286	32.85
56.3	1.26496	1.26720	30.57	60.8	1.29117	1.29346	32.90
56.4	1.26554	1.26778	30.63	60.9	1.29176	1.29405	32.95
56.5	1.26611	1.26835	30.68	61.0	1.29235	1.29464	33.00
56.6	1.26669	1.26893	30.73	61.1	1.29295	1.29523	33.05
56.7	1.26726	1.26950	30.78	61.2	1.29354	1.29583	33.10
56.8	1.26784	1.27008	30.83	61.3	1.29413	1.29642	33.15
56.9	1.26841	1.27066	30.89	61.4	1.29472	1.29701	33.20
57.0	1.26899	1.27123	30.94	61.5	1.29532	1.29761	33.26
57.1	1.26956	1.27181	30.99	61.6	1.29591	1.29820	33.31
57.2	1.27014	1.27239	31.04	61.7	1.29651	1.29880	33.36
57.3	1.27072	1.27297	31.09	61.8	1.29710	1.29940	33.41
57.4	1.27130	1.27355	31.15	61.9	1.29770	1.29999	33.46
57.5	1.27188	1.27413	31.20	62.0	1.29829	1.30059	33.51
57.6	1.27246	1.27471	31.25	62.1	1.29889	1.30118	33.56
57.7	1.27304	1.27529	31.30	62.2	1.29948	1.30178	33.61
57.8	1.27361	1.27587	31.35	62.3	1.30008	1.30238	33.67
57.9	1.27419	1.27645	31.40	62.4	1.30068	1.30298	33.72
58.0	1.27477	1.27703	31.46	62.5	1.30127	1.30358	33.77
58.1	1.27535	1.27761	31.51	62.6	1.30187	1.30418	33.82
58.2	1.27594	1.27819	31.56	62.7	1.30247	1.30477	33.87
58.3	1.27652	1.27878	31.61	62.8	1.30307	1.30537	33.92
58.4	1.27710	1.27936	31.66	62.9	1.30367	1.30597	33.97

## 10 Degrees Briz, specific gravity, and degrees Baumé of sugar solutions.—Continued.

DEGREES BRIZ OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)	DEGREES BRIZ OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)
	4°	20°			4°	20°	
63.0	1.30427	1.30657	34.02	67.5	1.33163	1.33399	36.30
63.1	1.30487	1.30718	34.07	67.6	1.33225	1.33460	36.35
63.2	1.30547	1.30778	34.12	67.7	1.33287	1.33523	36.40
63.3	1.30607	1.30838	34.18	67.8	1.33348	1.33584	36.45
63.4	1.30667	1.30898	34.23	67.9	1.33410	1.33646	36.50
63.5	1.30727	1.30958	34.28	68.0	1.33472	1.33708	36.55
63.6	1.30787	1.31019	34.33	68.1	1.33534	1.33770	36.61
63.7	1.30848	1.31079	34.38	68.2	1.33596	1.33832	36.66
63.8	1.30908	1.31139	34.43	68.3	1.33658	1.33894	36.71
63.9	1.30968	1.31200	34.48	68.4	1.33720	1.33957	36.76
64.0	1.31028	1.31260	34.53	68.5	1.33782	1.34019	36.81
64.1	1.31088	1.31320	34.58	68.6	1.33844	1.34081	36.86
64.2	1.31149	1.31381	34.63	68.7	1.33906	1.34143	36.91
64.3	1.31209	1.31441	34.68	68.8	1.33968	1.34205	36.96
64.4	1.31270	1.31502	34.74	68.9	1.34031	1.34268	37.01
64.5	1.31330	1.31563	34.79	69.0	1.34093	1.34330	37.06
64.6	1.31391	1.31623	34.84	69.1	1.34155	1.34392	37.11
64.7	1.31452	1.31684	34.89	69.2	1.34217	1.34455	37.16
64.8	1.31512	1.31745	34.94	69.3	1.34280	1.34517	37.21
64.9	1.31573	1.31806	34.99	69.4	1.34342	1.34580	37.26
65.0	1.31633	1.31866	35.04	69.5	1.34405	1.34642	37.31
65.1	1.31694	1.31927	35.09	69.6	1.34467	1.34705	37.36
65.2	1.31755	1.31988	35.14	69.7	1.34530	1.34768	37.41
65.3	1.31816	1.32049	35.19	69.8	1.34592	1.34830	37.46
65.4	1.31877	1.32110	35.24	69.9	1.34655	1.34893	37.51
65.5	1.31937	1.32171	35.29	70.0	1.34717	1.34956	37.56
65.6	1.31998	1.32232	35.34	70.1	1.34780	1.35019	37.61
65.7	1.32059	1.32293	35.39	70.2	1.34843	1.35081	37.66
65.8	1.32120	1.32354	35.45	70.3	1.34906	1.35144	37.71
65.9	1.32181	1.32415	35.50	70.4	1.34968	1.35207	37.76
66.0	1.32242	1.32476	35.55	70.5	1.35031	1.35270	37.81
66.1	1.32304	1.32538	35.60	70.6	1.35094	1.35333	37.86
66.2	1.32365	1.32599	35.65	70.7	1.35157	1.35396	37.91
66.3	1.32426	1.32660	35.70	70.8	1.35220	1.35459	37.96
66.4	1.32487	1.32722	35.75	70.9	1.35283	1.35522	38.01
66.5	1.32548	1.32783	35.80	71.0	1.35346	1.35585	38.06
66.6	1.32610	1.32844	35.85	71.1	1.35409	1.35648	38.11
66.7	1.32671	1.32906	35.90	71.2	1.35472	1.35711	38.16
66.8	1.32732	1.32967	35.95	71.3	1.35535	1.35775	38.21
66.9	1.32794	1.33029	36.00	71.4	1.35598	1.35838	38.26
67.0	1.32855	1.33090	36.05	71.5	1.35661	1.35901	38.30
67.1	1.32917	1.33152	36.10	71.6	1.35724	1.35964	38.35
67.2	1.32978	1.33214	36.15	71.7	1.35788	1.36028	38.40
67.3	1.33040	1.33275	36.20	71.8	1.35851	1.36091	38.45
67.4	1.33102	1.33337	36.25	71.9	1.35914	1.36155	38.50

## 10 Degrees Brix, specific gravity, and degrees Baumé of sugar solutions.—Continued.

DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)	DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)
	4°	20°			4°	20°	
72.0	1.35978	1.36218	38.55	76.5	1.38870	1.39115	40.77
72.1	1.36041	1.36282	38.60	76.6	1.38935	1.39180	40.82
72.2	1.36105	1.36346	38.65	76.7	1.39000	1.39246	40.87
72.3	1.36168	1.36409	38.70	76.8	1.39065	1.39311	40.92
72.4	1.36232	1.36473	38.75	76.9	1.39130	1.39376	40.97
72.5	1.36295	1.36536	38.80	77.0	1.39196	1.39442	41.01
72.6	1.36359	1.36600	38.85	77.1	1.39261	1.39507	41.06
72.7	1.36423	1.36664	38.90	77.2	1.39326	1.39573	41.11
72.8	1.36486	1.36728	38.95	77.3	1.39392	1.39638	41.16
72.9	1.36550	1.36792	39.00	77.4	1.39457	1.39704	41.21
73.0	1.36614	1.36856	39.05	77.5	1.39523	1.39769	41.26
73.1	1.36678	1.36919	39.10	77.6	1.39588	1.39835	41.31
73.2	1.36742	1.36983	39.15	77.7	1.39654	1.39901	41.36
73.3	1.36805	1.37047	39.20	77.8	1.39719	1.39966	41.40
73.4	1.36869	1.37111	39.25	77.9	1.39785	1.40032	41.45
73.5	1.36933	1.37176	39.30	78.0	1.39850	1.40098	41.50
73.6	1.36997	1.37240	39.35	78.1	1.39916	1.40164	41.55
73.7	1.37061	1.37304	39.39	78.2	1.39982	1.40230	41.60
73.8	1.37125	1.37368	39.44	78.3	1.40048	1.40295	41.65
73.9	1.37189	1.37432	39.49	78.4	1.40113	1.40361	41.70
74.0	1.37254	1.37496	39.54	78.5	1.40179	1.40427	41.74
74.1	1.37318	1.37561	39.59	78.6	1.40245	1.40493	41.79
74.2	1.37382	1.37625	39.64	78.7	1.40311	1.40559	41.84
74.3	1.37446	1.37689	39.69	78.8	1.40377	1.40625	41.89
74.4	1.37510	1.37754	39.74	78.9	1.40443	1.40691	41.94
74.5	1.37575	1.37818	39.79	79.0	1.40509	1.40758	41.99
74.6	1.37639	1.37883	39.84	79.1	1.40575	1.40824	42.03
74.7	1.37704	1.37947	39.89	79.2	1.40641	1.40890	42.08
74.8	1.37768	1.38012	39.94	79.3	1.40707	1.40956	42.13
74.9	1.37833	1.38076	39.99	79.4	1.40774	1.41023	42.18
75.0	1.37897	1.38141	40.03	79.5	1.40840	1.41089	42.23
75.1	1.37962	1.38206	40.08	79.6	1.40906	1.41155	42.28
75.2	1.38026	1.38270	40.13	79.7	1.40972	1.41222	42.32
75.3	1.38091	1.38335	40.18	79.8	1.41039	1.41288	42.37
75.4	1.38156	1.38400	40.23	79.9	1.41105	1.41355	42.42
75.5	1.38220	1.38465	40.28	80.0	1.41172	1.41421	42.47
75.6	1.38285	1.38530	40.33	80.1	1.41238	1.41488	42.52
75.7	1.38350	1.38595	40.38	80.2	1.41304	1.41554	42.57
75.8	1.38415	1.38660	40.43	80.3	1.41371	1.41621	42.61
75.9	1.38480	1.38725	40.48	80.4	1.41437	1.41688	42.66
76.0	1.38545	1.38790	40.53	80.5	1.41504	1.41754	42.71
76.1	1.38610	1.38855	40.57	80.6	1.41571	1.41821	42.76
76.2	1.38675	1.38920	40.62	80.7	1.41637	1.41888	42.81
76.3	1.38740	1.38985	40.67	80.8	1.41704	1.41955	42.85
76.4	1.38805	1.39050	40.72	80.9	1.41771	1.42022	42.90

## 10 Degrees Brix, specific gravity, and degrees Baumé of sugar solutions.—Continued.

DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)	DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)
	4°	20°			4°	20°	
81.0	1.41837	1.42088	42.95	86.0	1.45223	1.45480	45.33
81.1	1.41904	1.42155	43.00	86.1	1.45292	1.45549	45.38
81.2	1.41971	1.42222	43.05	86.2	1.45360	1.45618	45.42
81.3	1.42038	1.42289	43.10	86.3	1.45429	1.45686	45.47
81.4	1.42105	1.42356	43.14	86.4	1.45498	1.45755	45.52
81.5	1.42172	1.42423	43.19	86.5	1.45567	1.45824	45.57
81.6	1.42239	1.42490	43.24	86.6	1.45636	1.45893	45.61
81.7	1.42306	1.42558	43.29	86.7	1.45704	1.45962	45.66
81.8	1.42373	1.42625	43.33	86.8	1.45773	1.46031	45.71
81.9	1.42440	1.42692	43.38	86.9	1.45842	1.46100	45.75
82.0	1.42507	1.42759	43.43	87.0	1.45911	1.46170	45.80
82.1	1.42574	1.42827	43.48	87.1	1.45980	1.46239	45.85
82.2	1.42642	1.42894	43.53	87.2	1.46050	1.46308	45.89
82.3	1.42709	1.42961	43.57	87.3	1.46119	1.46377	45.94
82.4	1.42776	1.43029	43.62	87.4	1.46188	1.46446	45.99
82.5	1.42844	1.43096	43.67	87.5	1.46257	1.46516	46.03
82.6	1.42911	1.43164	43.72	87.6	1.46326	1.46585	46.08
82.7	1.42978	1.43231	43.77	87.7	1.46395	1.46654	46.13
82.8	1.43046	1.43298	43.81	87.8	1.46464	1.46724	46.17
82.9	1.43113	1.43366	43.86	87.9	1.46534	1.46793	46.22
83.0	1.43181	1.43434	43.91	88.0	1.46603	1.46862	46.27
83.1	1.43248	1.43502	43.96	88.1	1.46673	1.46932	46.31
83.2	1.43316	1.43569	44.00	88.2	1.46742	1.47002	46.36
83.3	1.43384	1.43637	44.05	88.3	1.46812	1.47071	46.41
83.4	1.43451	1.43705	44.10	88.4	1.46881	1.47141	46.45
83.5	1.43519	1.43773	44.15	88.5	1.46950	1.47210	46.50
83.6	1.43587	1.43841	44.19	88.6	1.47020	1.47280	46.55
83.7	1.43654	1.43908	44.24	88.7	1.47090	1.47350	46.59
83.8	1.43722	1.43976	44.29	88.8	1.47159	1.47420	46.64
83.9	1.43790	1.44044	44.34	88.9	1.47229	1.47489	46.69
84.0	1.43858	1.44112	44.38	89.0	1.47299	1.47559	46.73
84.1	1.43926	1.44180	44.43	89.1	1.47368	1.47629	46.78
84.2	1.43994	1.44249	44.48	89.2	1.47438	1.47699	46.83
84.3	1.44062	1.44317	44.53	89.3	1.47508	1.47769	46.87
84.4	1.44130	1.44385	44.57	89.4	1.47578	1.47839	46.92
84.5	1.44198	1.44453	44.62	89.5	1.47648	1.47909	46.97
84.6	1.44266	1.44521	44.67	89.6	1.47718	1.47979	47.01
84.7	1.44334	1.44590	44.72	89.7	1.47788	1.48049	47.06
84.8	1.44402	1.44658	44.76	89.8	1.47858	1.48119	47.11
84.9	1.44470	1.44726	44.81	89.9	1.47928	1.48189	47.15
85.0	1.44539	1.44794	44.86	90.0	1.47998	1.48259	47.20
85.1	1.44607	1.44863	44.91	90.1	1.48068	1.48330	47.24
85.2	1.44675	1.44931	44.95	90.2	1.48138	1.48400	47.29
85.3	1.44744	1.45000	45.00	90.3	1.48208	1.48470	47.34
85.4	1.44812	1.45068	45.05	90.4	1.48278	1.48540	47.38
85.5	1.44881	1.45137	45.09	90.5	1.48348	1.48611	47.43
85.6	1.44949	1.45205	45.14	90.6	1.48419	1.48681	47.48
85.7	1.45018	1.45274	45.19	90.7	1.48489	1.48752	47.52
85.8	1.45086	1.45343	45.24	90.8	1.48559	1.48822	47.57
85.9	1.45154	1.45411	45.28	90.9	1.48630	1.48893	47.61

10 *Degrees Brix, specific gravity, and degrees Baumé of sugar solutions.—Concluded.*

DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)	DEGREES BRIX OR PER CENT BY WEIGHT OF SUCROSE	SPECIFIC GRAVITY AT 20° C.		DEGREES BAUMÉ (MODULUS 145)
	4°	20°			4°	20°	
91.0	1.48700	1.48963	47.66	95.5	1.51905	1.52174	49.71
91.1	1.48771	1.49034	47.71	95.6	1.51977	1.52246	49.76
91.2	1.48841	1.49104	47.75	95.7	1.52049	1.52318	49.80
91.3	1.48912	1.49175	47.80	95.8	1.52121	1.52390	49.85
91.4	1.48982	1.49246	47.84	95.9	1.52193	1.52463	49.90
91.5	1.49053	1.49316	47.89	96.0	1.52266	1.52535	49.94
91.6	1.49123	1.49387	47.94	96.1	1.52338	1.52607	49.98
91.7	1.49194	1.49458	47.98	96.2	1.52410	1.52680	50.03
91.8	1.49265	1.49529	48.03	96.3	1.52482	1.52752	50.08
91.9	1.49336	1.49600	48.08	96.4	1.52555	1.52824	50.12
92.0	1.49406	1.49671	48.12	96.5	1.52627	1.52897	50.16
92.1	1.49477	1.49741	48.17	96.6	1.52699	1.52969	50.21
92.2	1.49548	1.49812	48.21	96.7	1.52772	1.53042	50.25
92.3	1.49619	1.49883	48.26	96.8	1.52844	1.53114	50.30
92.4	1.49690	1.49954	48.30	96.9	1.52917	1.53187	50.34
92.5	1.49761	1.50026	48.35	97.0	1.52989	1.53260	50.39
92.6	1.49832	1.50097	48.40	97.1	1.53062	1.53332	50.43
92.7	1.49903	1.50168	48.44	97.2	1.53134	1.53405	50.48
92.8	1.49974	1.50239	48.49	97.3	1.53207	1.53478	50.52
92.9	1.50045	1.50310	48.53	97.4	1.53279	1.53551	50.57
93.0	1.50116	1.50381	48.58	97.5	1.53352	1.53623	50.61
93.1	1.50187	1.50453	48.62	97.6	1.53425	1.53696	50.66
93.2	1.50258	1.50524	48.67	97.7	1.53498	1.53769	50.70
93.3	1.50329	1.50595	48.72	97.8	1.53570	1.53842	50.75
93.4	1.50401	1.50667	48.76	97.9	1.53643	1.53915	50.79
93.5	1.50472	1.50738	48.81	98.0	1.53716	1.53988	50.84
93.6	1.50543	1.50810	48.85	98.1	1.53789	1.54061	50.88
93.7	1.50615	1.50881	48.90	98.2	1.53862	1.54134	50.93
93.8	1.50686	1.50952	48.94	98.3	1.53935	1.54207	50.97
93.9	1.50757	1.51024	48.99	98.4	1.54008	1.54280	51.02
94.0	1.50829	1.51096	49.03	98.5	1.54081	1.54353	51.06
94.1	1.50900	1.51167	49.08	98.6	1.54154	1.54426	51.10
94.2	1.50972	1.51239	49.12	98.7	1.54227	1.54499	51.15
94.3	1.51044	1.51311	49.17	98.8	1.54300	1.54573	51.19
94.4	1.51115	1.51382	49.22	98.9	1.54373	1.54646	51.24
94.5	1.51187	1.51454	49.26	99.0	1.54446	1.54719	51.28
94.6	1.51258	1.51526	49.31	99.1	1.54519	1.54793	51.33
94.7	1.51330	1.51598	49.35	99.2	1.54593	1.54866	51.37
94.8	1.51402	1.51670	49.40	99.3	1.54666	1.54939	51.42
94.9	1.51474	1.51742	49.44	99.4	1.54739	1.55013	51.46
95.0	1.51546	1.51814	49.49	99.5	1.54813	1.55087	51.50
95.1	1.51617	1.51886	49.53	99.6	1.54886	1.55160	51.55
95.2	1.51689	1.51958	49.58	99.7	1.54960	1.55234	51.59
95.3	1.51761	1.52030	49.62	99.8	1.55033	1.55307	51.64
95.4	1.51833	1.52102	49.67	99.9	1.55106	1.55381	51.68
				100.0	1.55180	1.55454	51.73



