CORRESPONDENCE.

ORIGINAL TABLES.

To the Editors of the Journal of the Institute of Actuaries.

Dear Sirs,—Having on several occasions had to estimate the value of functions by the O^[M] Table at 5 per-cent interest, I have prepared a table of annuities on this basis, and, as it may be of some service to other members of the profession, I send you the table referred to herewith.

In constructing this table the ultimate value of D_x was made up by a continuous process from the relation

$$\log D_{x+1} = \log D_x + \log v p_x$$

the value of $\log p_x$ being taken from the table published in the official volume to five places. Throughout the whole construction, therefore, five place logarithms only were used.

The value of $D_{[x]}$ was then constructed—again by five-place logarithms—directly from the value of $(\log v^x + \log l_{[x]})$ and thereafter the tables of both $D_{[x]}$ and $D_{[x]+10}$ were checked at decennial ages by the arithmometer.

From the relation $\log D_{[x]+n+1} = \log D_{[x]+n} + \log v p_{[x]+n}$ complete tables of $D_{[x]+n}$ were made up—the values of $\log D_{[x]+10}$ so found agreeing with the values of $\log D$ ultimate first obtained.

Having by summation constructed tables of $N_{[x]}$ and N and thence constructed—in duplicate by the arithmometer—tables of $a_{[x]}$, $a_{[x]:\overline{so}}$, $a_{[x]:\overline{so}}$ and $a_{[x]:\overline{so}}$ to serve as check values: the tables were then completed by the continuous process

$$a_{[x]; \overline{n}_1} = a_{[x]; \overline{n-1}_1} + D_{[x]+n} \cdot D_{[x]}^{-1}$$

In using the values of $\log vp$ the necessary corrections were made to counteract the ignoring of the sixth and seventh places of decimals in the value of $\log v$: but as $\log p$ was, as has been said, taken only to five places of decimals, the resultant annuity-values may differ by one in the third place from values derived from colog p as tabulated to seven places in the "Account of Principles and Methods."

I am, Yours faithfully.

C. KEITH GRANGER.

30, Renfield Street, Glasgow. 16 July 1918.

 $a_{\scriptscriptstyle [x]\overline{n}}$

tion	το	11	12	13	14	15	16	17	18	19	tion
Duration	16.916	16.863	16.808	16.750	16.689	16.626	16.559	16.490	16.417	16:341	Duration
0	·000 ·950	•000 •950	·000 ·950	·000 ·950	·000 ·950	·000 ·950	-000 -950	·000 ·950	·000 ·950	*000 *950	0
2	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	2
3	2.705	2.705	2.705	2.705	2.705	2.705	2.705	2.705	2.705	2.704	3
4	3.515	3.515	3.515	3.514	3.514	3.514	3.514	3.513	3.513	3.513	4
5	4.282	4.281	4.281	4.281	4.281	4.280	4.280	4.280	4.279	4.279	5
6	5.008	5.008	5.007	5 007	5.007	5.006	5.005	5.005	5.004	5.004	6
7	5.696	5.695	5.695	5.694	5.694	5.693	5.692	5.692	5.691		7
8	6.347	6.346	6.346	6.345	6.344	6.343	6.342	6.341	6.340	6.339	8
9	6.963	6.962	6.961	6.961	6.960	6.958	6.957	6.956	6.955	6.953	9
10	7.546	7.545	7.544	7.543	7.542	7.540	7.539	7.537	7.537	7.534	10
10	8.098	8.097	8.095	8.094	8.092	8.091	8.089	8.087	8.082	8.082	1
2	8.620	8.618	8.617	8.615	8.613	8.611	8.609	8.606	8.604	8.601	2
3	9.113	9.112	9.110	9.108	9.106	9.103	9.100	9.098	9.095	9.091	3
4	9.580	9.578	9.576	9.574	9.571	9.568	9.565	9.562	9.558	9.555	4
15	10.022	10.019	10.017	10.014	10.011	10.008	10.004	10.001	9.997	9.992	٦,,
6	10.439	10.437	10.434	10.431	10.428	10.424	10.420	10.415	10.411	10.406	15 6
7	10.834	10.831	10.828	10.825	10.821	10.817	10.812	10.807	10.802	10.796	7
8	11.208	11.204	11.201	11.197	11.193	11.188	11.182	11.177	11.171	11.164	8
9	11.261	11.557	11.553	11.548	11.544	11.538	11.532	11.526	11.519	11.215	9
20	11.894	11.890	11.886	11.881	11.876	11.870	11.863	11.856	11.848	11.840	20
1	12.210	12.205	12.200	12.195	12.189	12.182	12.175	12.167	12.159	12.150	1
2	12.508	12.503	12:497	12.491	12.485	12.478	12.470	12.461	12.452	12.442	ź
3	12.789	12.784	12.778	12.771	12.764	12.756	12.747	12.738	12.728	12.717	3
4	13.055	13.049	13.043	13.036	13.028	13.019	13.010	12.999	12.988	12.976	4
25	13'307	13.300	13.293	13:285	13.277	13.267	13.257	13.246	13.234	13.220	25
6	13.544	13.537	13.529	13.521	13.511	13.201	13.490	13.478	13.465	13.450	8
7	13.768	13.760	13.752	13.743	13.733	13.722	13.709	13.696	13.682	13.667	7
8	13.980	13.971	13.962	13.952	13.941	13.930	13.916	13.902	13.887	13.870	8
9	14:179	14:170	14.160	14.150	14.138	14.125	14.111	14.096	14:079	14.061	9
30	14.367	14.358	14.347	14.336	14.323	14.309	14.294	14.278	14.260	14.241	30
1	14.545	14.535	14.523	14.511	14.498	14.483	14.466	14.449	14.430	14.409	1
2	14.712	14.701	14.689	14 676	14.662	14.646	14.628	14.610	14:589	14.567	2
8	14.870	14.858	14.845	14.831	14.816	14.799	14.780	14.760	14.739	14.715	3
4	15.018	15.006	14.992	14.977	14.961	14.943	14.923	14.902	14.879	14.854	4
35	15.158	15.145	15.130	15.114	15.097	15.078	15.057	15.034	15.010	14.983	35
6	15.290	15.275	15.260	15.243	15.225	15.204		15.158	15.132	15.104	6
7	15.413	15.398	15.382	15.364	15.344	15.323	15.299	15.274	15.247	15.217	7
8	15.530	15.514	15.496	15.477	15.457	15.434	15.409	15.382	15.353	15.322	8
9	15.639	15.622	15.603	15.583	15.562	15.538	15.511	15.483	15.453	15.420	9
40	15.741	15.723	15.704	15.683	15.660	15.635	15.607	15.577	15·545	15.510	40
1	15.837	15.818	15.798	15.775	15.751	15.725	15.696	15.665	15.631	15.594	ī
2	15:927	15.907	15.886	15.862	15.837	15.809	15.778	15.746	15.710	15.672	2
3	16.011	15.990	15.968	15.943	15 917	15.887	15.855	15.821	15.784	10 111	3
4	16.090	16.068	16.044	16018	15.991	15.960	15 926	15.890	15.851	15.809	4
45	16.164	16.141	16.116	16.088	16.059	16.027	15.992	15.955	15.914	15.870	45
6	16.232	16.208	16.182	16.154	16.123	16.089	16.053	16.014	15.971	15.925	6
7	16.296	16.271	16 244	16.214	16.182	16.147	16.109	16.068	16.024	15.976	7
8	16.355	16.329	16.301	16.269	16.236	16.200	16.160	16.117	16.071	16.022	8
9	16.411	16.383	16.353	16.321	16:286	16.248	16.207	16.163	16.112	16.064	9
1	10	II	12	13	14	15	16	17	18		

 a_{x}

					$\omega_{[x]}$	116				•	
tion	20	21	22	23	24	25	26	27	28	29	tion
Duration	16:262	16.179	16.092	16.002	15.907	15.810	15.707	15.601	15.490	15:375	Duration
0	·000 ·950	·950	.600 .950	·000 ·950	·000 ·950	.000 .950	·000 ·950	-000 -950	·000 ·950	·000 ·949	0
2 3 4	1·851 2·704 3·513	1.850 2.704	1.850 2.704	1.850 2.703	1.850 2.703	1.850 2.703	1.850 2.703	1.850 2.702	1·849 2·702	1.849 2.701	2 3 4
5	4·278 5·003	3·512 4·278 5·002	3·512 4·277 5·001	3·511 4·276 5·000	3 511 4·276 4·999	3·510 4·275 4·998	3·510 4·274 4·997	3 509 4·273 4·996	3·508 4·272 4·994	3·508 4·271 4·992	5 6
7	5·689 6·338	5·688 6·336	5·686 6·335	5·685 6·333	5.684 6.331	5·682 6·329	5.680 6.327	5.679 6.324	5·676 6·321	5·674 6·319	7 8
9 10	6·951 7·531	6·949 7·529	6·947 7·527	6.945 7.524	6.943 7.521	6.940 7.518	6·937 7·514	6·934 7·510	6·930 7·505	6.927 7.501	9 10
2 3	8 090 8 598 9 088	8·077 8·594 9·083	8·074 8·591 9·079	8·071 8·587 9·074	8.067 8.582 9.069	8.063 8.578 9.063	8·058 8·572 9·057	8·054 8·567 9·050	8.048 8.560 9.042	8.042 8.553 9.035	1 2 3
15 6	9·550 9·987 10·400	9·545 9·981 10·393	9·540 9·976 10·387	9·535 9·969 10·379	9·528 9·962 10·371	9.522 9.954 10.362	9·514 9·946 10·352	9·507 9·937 10·342	9·497 9·926 10·330	9.488 9.915 10.318	4 15 6
7 8 9	10·789 11·157 11·504	10·782 11·149 11·495	10.774 11.140 11.485	10.766 11.131 11.475	10.756 11.120 11.462	10.747 11.109 11.450	10.735 11.096 11.436	10.724 11.083 11.421	10 710 11 068 11 404	10.696 11.052 11.386	7 8 9
20 1 2 3	11.831 12.139 12.430 12.704	11.821 12.128 12.418 12.691	11.810 12.116 12.405 12.677	11·798 12·104 12·391 12·661	11.785 12.089 12.374 12.643	11.771 12.073 12.358 12.625	11.756 12.056 12.338 12.604	11.739 12.038 12.318 12.582	11·720 12·017 12·295 12·557	11·700 11·995 12·271 12·530	20 1 2 3
25 6	12.963 13.206 13.434	12·948 13·190 13·417	12.932 13.172 13.398	12·915 13·154 13·378	12.896 13.133 13.355	12.875 13.111 13.331	12.853 13.086 13.305	12.828 13.060 13.276	12.801 13.030 13.244	12·772 12·999 13·210	4 25 6
7 8 9	13.649 13.851 14.041	13.631 13.831 14.020	13.610 13.809 13.996	13·589 13·786 13·971	13.564 13.759 13.942	13.538 13.732 13.913	13·509 13·701 13·879	13.478 13.667 13.844	13·444 13·631 13·804	13·408 13·591 13·762	7 8 9
30 1 2 3 4	14·219 14·386 14·543 14·689 14·826	14·196 14·362 14·516 14·661 14·796	14·171 14·335 14·488 14·630 14·764	14·144 14·306 14·457 14·598 14·729	14·113 14·273 14·422 14·561 14·690	14.081	14.046 14.201 14.315 14.479 14.603	14.008 14.160 14.302 14.433 14.555	13.966 14.115 14.254 14.383 14.501	13.921 14.068 14.203 14.329 14.444	30 1 2 3 4
35 6 7 8	14·954 15·073 15·184 15·287 15·383	14·922 15·039 15·149 15·250 15·344	14·888 15 003 15·110 15·209 15·301	14·851 14·964 15·069 15·166 15·255	14·810 14·920 15·023 15·118 15·205	14·766 14·874 14·975 15·067 15·151	14·718 14·824 14·921 15·011 15·093	14.667 14.770 14.864 14.951 15.030	14.610 14.710 14.802 14.886 14.962	14 550 14 647 14 735 14 816 14 889	35 6 7 8 9
40 1 2 3 4	15·472 15·554 15·630 15·699 15·763	15.431 15.511 15.584 15.652 15.714	15·386 15·464 15·535 15·601 15·660	15·338 15·413 15·483 15·546 15·603	15·285 15·358 15·425 15·486 15·541	15·229 15·299 15·364 15·422	15·167 15·235 15·297 15·352	15·102 15·167 15·226 15·278 15·326	15.030 15.093 15.148 15.198 15.243	14.955 15.014 15.066 15.113 15.155	40 1 2 3 4
45 6 7 8 9	15·822 15·875 15·924 15·968 16·008	15·770 15·822 15·868 15·910 15·948	15.715 15.764 15.808 15.848 15.881	15.655 15.702 15.744 15.782 15.815	15·590 15·635 15·675 15·710 15·741	15·521 15·564 15·601 15·634 15·663	15·447 15·486 15·521 15·552 15·579	15·367 15·404 15·437 15·465 15·490	15·282 15·316 15·346 15·372 15·394	15·191 15·223 15·250 15·274 15·294	45 6 7 8 9
	20	21	22	23	24	25	26	27	28	29	

 $a_{\scriptscriptstyle [x]^{\overline{n}}}$

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tion	30	31	32	33	34	35	36	37	38	39	tion
Duration	15.255	15.130	15:001	14.866	14:728	14.583	14:434	14.279	14.120	13.955	Duration
0	.000	.000	·000 ′	•000	.000	.000	.000	.000	.000	.000	0
1	.949	.949	.949	.949	949	.949	.949	949	.949	.948	1
2	1.849	1.849	1.849	1.848	1.848	1.848	1.847	1.847	1.846	1.846	2
3 4	2.701	2.700	2.700	2.699	2.699	2.698	2:697	2.696	2.695	2.694	3 4
	3.507	3.206	3.505	3.504	3 503	3.502	3.200	3 499	3.497	3.495	
5	4.269	4.268	4.267	4.265	4.263	4.261	4.259	4.257	4.254	4.252	5
6	4.990	4.989	4.987	4.984	4.982	4.979	4.976	4.972	4.969	4.965	6
7	5.672	5.669	5.666	5.663	5.660	5.656	5.651	5 647	5.642	5.636	7
8	6.315	6.312	6.308	6.303	6.299	6.294	6 288	6.282	6.276	6.269	8
9	6.923	6.918	6.913	6.908	1 0 002	0 000	6.888	6.881	6.872	6.863	9
10	7.496	7.490	7.484	7.477	7.470		7.453	7.443	7.433	7.421	10
1	8.036	8 029	8.022	8.073	8.005	7.995	7.984	7 972	7.959	7 945	1
2	8.546	8.537	8.528	8.518	8.508	8.496	8.483	8.469	8.454	8.437	2
3	9.026	9 016	9.005	8.993	8.981	8.967	8.951	8.935	8.917	8.897	3
4	9.478	9.466	9.454	9.440	9.425	9.409	9.391	9.372	9.351	9.328	4
15	9.903	9.890	9.876	9.860	9.843	9.824	9.803	9.781	9.757	9.731	15
6	10.304	10.288	10.272	10.254	10.235		10.190	10 164	10.137	10.107	6
7	10.680	10.663	10.645	10 624	10.602	10.578	10.221	10.523	10.491	10.458	7
8	11.034	11.015	10.994	10 971	10.946	10.919	10 889	10.857	10.822	10.784	8
9	11.366	11.345	11.322	11.296	11.268	11.238	11.205	11.169	11.130	11.088	9
20	11.678	11.654	11.629	11.600	11.269	11.536	11.499	11.459	11.416	11.370	20
1	11.971	11.944	11.916	11.884	11.851	11.814	11.773	11.730	11.682	11.631	1
2	12.245	12.216	12.184	12.150	12.113	12.072	12.028	11.980	11.929	11.873	2
3	12.501	12.469	12.435	12.397	12.357	12.313	12.264	12.213	12.156	12.095	3
4	12.741	12.706	12.669	12.628	12.584	12·536	12.484	12.427	12.366	12.301	4
25	12.964	12.927	12.887	12.842	12.795	12.743	12.686	12.626	12.560	12.489	25
6	13.173	13.133	13.089	13:041	12.990	12.934	12.873	12.808	12.737	12.661	6
7	13.368	13.324	13.277	13.226	13.171	13.111	13.045	12.976	12.900	12.819	7
8	13 548	13.502	13.452	13.396	13.337	13.273	13.203	13.129	13.048	12.962	8
9	13.716	13.666	13.613	13.553	13.491	13.422	13.348	13.269	13.183	13.091	9
30	13 872	13.818	13.761	13.698	13.632	13.559	13.480	13.396	13.305	13.208	30
1	14.015	13.959	13.898	13.831	13.761	13.683	13.600	13.511	13.416	13.313	1
2	14.148	14.088	14.024	13.953	13.878	13.797	13.709	13.615	13.514	13.407	2
3	14.270	14.207	14.138	14.064	13.985	13.899	13.807	13.708	13.603	13.490	3
4	14.382	14.315	14.243	14.165	14.082	13.992	13.895	13.792	13.682	13.564	4
35	14.485	14.414	14.339	14.256	14.169	14.075	13.974	13.866	13.751	13.628	35
6	14.578	14.504	14.425	14.339	14.248	14.149	14:044	13.932	13.812	13.685	6
7	14.663	14.586	14.503	14.413	14.318	14.215	14.106	13.989	13.865	13.734	7
8	14.741	14.659	14.573	14.479	14.380	14.274	14.160	14.039	13.911	13.775	8
9	14.810	14.726	14.636	14.538	14'435	14.325	14.207	14.083	13.950	13.811	9
40	14.873	14.785	14.691	14.590	14.484	14.370	14.248	14.120	13.984	13.841	40
1	14.928	14.837	14.740	14.636	14.526	14.408	14.283	14 151	14.012	13.866	1
2	14.978	14.884	14.783	14 676	14.562	14.141	14.313	14.178	14.036	13.886	2
3	15.022	14 925	14.821	14.710	14.594	14.469	14 338	14.200	14 055	13.903	3
4	15 060	14.960	14.853	14.739	14.620	14.493	14.359	14.218	14.070	13.916	4
45	15.094	14.990	14.881	14.765	14.642	14.513	14.376	14.233	14.083	13.926	45
6	15.123	15.017	14 905	14.786	14.661	14.529	14.390	14.245	14.093	13.934	6
7	15.148	15.039	14.925	14.803	14:676	14.542	14.401	14.254	14.100	13.940	7
8	15.169	15.058	14.942	14.818	14.689	14.552	14.410	14.261	14 106	13.945	8
9	15.187	15.074	14.955	14.829	14.699	14 561	14.417	14.266	14.110	13.948	9
	30	31	32	22	34	35	36	37	38	39	<u> </u>
	1 30	1 31	3ª	33	34	33	30) 3/	30	39	<u> </u>

 $O^{[M]}$

 $a_{[x]\overline{n}|}$

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0 1 2 3 4 5 6 7 8 9 10 1 2 3 4	·000 ·948 1·845 2·693 3·493 4·248 4·960 5·630 6·261 6·853 7·409 7·930 8·418 8·875 9·303 9·702 10·074 10·0420	·000 ·948 1·845 2·692 3·491 4·245 4·956 5·624 6·252 6·842 7·396 7·914 8·399 8·853 9·276 9·671 10·039	·000 ·948 ·844 2·691 3·489 4·242 4·950 5·617 6·243 6·830 7·381 7·896 8·378 8·827 9·247 9·637	·000 ·948 1·843 2·689 3·486 4·238 4·945 5·609 6·233 6·817 7·365 7·876 8·354 8·799 9·214	·000 ·947 1·843 2·687 3·484 4·233 4·938 5·600 6·221 6·803 7·347 7·855 8·328 8·769	·000 ·947 1·842 2·686 3·481 4·229 4·932 5·591 6·209 6·788 7·328 7·831 8·300	·000 ·947 1·841 2·684 3·477 4·224 4·924 5·581 6·196 6·771 7·806 8·270	·000 ·946 1·840 2·682 3·474 4·218 4·916 5·570 6·182 6·752 7·284 7·778 8·237	·000 ·946 1·839 2·679 3·470 4·212 4·907 5·558 6·166 6·732 7·259 7·748	.000 .946 1.837 2.677 3.465 4.205 4.898 5.545 6.149 6.711 7.232 7.716	0 1 2 3 4 5 6 7 8 9 10
1 2 3 4 5 6 7 8 9 10 1 2 3 4	-948 1.845 2.693 3.493 4.248 4.960 5.630 6.261 6.853 7.409 7.930 8.418 8.875 9.303 9.702 10.074 10.0420	948 1·845 2·692 3·491 4·245 4·956 5·624 6·252 6·842 7·396 7·914 8·399 8·853 9·276 9·671 10·039	948 1·844 2·691 3·489 4·242 4·950 5·617 6·243 6·830 7·381 7·896 8·378 8·378 8·27 9·247 9·637	.948 1.843 2.689 3.486 4.238 4.945 5.609 6.233 6.817 7.365 7.876 8.354 8.799 9.214	·947 1·843 2·687 3·484 4·233 4·938 5·600 6·221 6·803 7·347 7·855 8·328 8·769	.947 1.842 2.686 3.481 4.229 4.932 5.591 6.209 6.788 7.328 7.831 8.300	947 1·841 2·684 3·477 4·224 4·924 5·581 6·196 6·771 7·806 8·270	.946 1.840 2.682 3.474 4.218 4.916 5.570 6.182 6.752 7.284 7.778 8.237	.946 1.839 2.679 3.470 4.212 4.907 5.558 6.166 6.732 7.259 7.748	.946 1.837 2.677 3.465 4.205 4.898 5.545 6.149 6.711 7.232 7.716	1 2 3 4 5 6 7 8 9 10
2 3 4 5 6 7 8 9 10 1 2 3 4	1:845 2:693 3:493 4:248 4:960 6:261 6:853 7:409 7:930 8:418 8:875 9:303 9:702 10:074 10:420	1·845 2·692 3·491 4·245 4·956 5·624 6·252 6·842 7·396 7·914 8·399 8·853 9·276 9·671 10·039	1·844 2·691 3·489 4·242 4·950 5·617 6·243 6·830 7·381 7·896 8·378 8·827 9·247 9·637	1·843 2·689 3·486 4·238 4·945 5·609 6·233 6·817 7·365 7·876 8·354 8·799 9·214	1·843 2·687 3·484 4·233 4·938 5·600 6·221 6·803 7·347 7·855 8·328 8·769	1.842 2.686 3.481 4.229 4.932 5.591 6.209 6.788 7.328 7.831 8.300	1.841 2.684 3.477 4.224 4.924 5.581 6.196 6.771 7.806 8.270	1·840 2·682 3·474 4·218 4·916 5·570 6·182 6·752 7·284 7·778 8·237	1.839 2.679 3.470 4.212 4.907 5.558 6.166 6.732 7.259 7.748	1.837 2.677 3.465 4.205 4.898 5.545 6.149 6.711 7.232 7.716	2 3 4 5 6 7 8 9 10
3 4 5 6 7 8 9 10 1 2 3 4	2·693 3·493 4·248 4·960 5·630 6·261 6·853 7·409 7·930 8·418 8·875 9·303 9·702 10·074 10·420	2·692 3·491 4·245 4·956 5·624 6·252 6·842 7·914 8·399 8·853 9·276 9·671 10·039	2·691 3·489 4·242 4 950 5·617 6·243 6 830 7·381 7·896 8·378 8·827 9·247 9·637	2·689 3·486 4·238 4·945 5·609 6·233 6·817 7·365 7·876 8·354 8·799 9·214	2·687 3·484 4·233 4·938 5·600 6·221 6·803 7·347 7·855 8·328 8·769	2.686 3.481 4.229 4.932 5.591 6.209 6.788 7.328 7.831 8.300	2.684 3.477 4.224 4.924 5.581 6.196 6.771 7.307 7.806 8.270	2.682 3.474 4.218 4.916 5.570 6.182 6.752 7.284 7.778 8.237	2·679 3·470 4·212 4·907 5·558 6·166 6·732 7·259 7·748	2·677 3·465 4·205 4·898 5·545 6·149 6·711 7·232 7·716	3 4 5 6 7 8 9 10
4 5 6 7 8 9 10 1 2 3 4	3·493 4·248 4·960 5·630 6·261 6·853 7·409 7·930 8·418 8·875 9·303 9·702 10·074 10·420	3·491 4·245 4·956 5·624 6·252 6·842 7·396 7·914 8·399 8·853 9·276 9·671 10·039	3·489 4·242 4 950 5·617 6·243 6 830 7·381 7·896 8·378 8·827 9·247 9·637	3·486 4·238 4·945 5·609 6·233 6·817 7·365 7·876 8·354 8·799 9·214	3·484 4·233 4·938 5·600 6·221 6·803 7·347 7·855 8·328 8·769	3·481 4·229 4·932 5·591 6·209 6·788 7·328 7·831 8·300	3·477 4·224 4·924 5·581 6·196 6·771 7·307 7·806 8·270	3·474 4·218 4·916 5·570 6·182 6·752 7·284 7·778 8·237	3·470 4·212 4·907 5·558 6·166 6·732 7·259 7·748	3·465 4·205 4·898 5·545 6·149 6·711 7·232 7·716	4 5 6 7 8 9 10
5 6 7 8 9 10 1 2 3 4	4·248 4·960 5·630 6·261 6·853 7·409 7·930 8·418 8·875 9·303 9·702 10·074 10·420	4·245 4·956 5·624 6·252 6·842 7·396 7·914 8·399 8·853 9·276 9·671 10·039	4·242 4·950 5·617 6·243 6·830 7·381 7·896 8·378 8·827 9·247	4·238 4·945 5·609 6·233 6·817 7·365 7·876 8·354 8·799 9·214	4·233 4·938 5·600 6·221 6·803 7·347 7·855 8·328 8·769	4·229 4·932 5·591 6·209 6·788 7·328 7·831 8·300	4·224 4·924 5·581 6·196 6·771 7·307 7·806 8·270	4:218 4:916 5:570 6:182 6:752 7:284 7:778 8:237	4·212 4·907 5·558 6·166 6·732 7·259 7·748	4·205 4·898 5·545 6·149 6·711 7·232 7·716	5 6 7 8 9 10
6 7 8 9 10 1 2 3 4	4.960 5.630 6.261 6.853 7.409 7.930 8.418 8.875 9.303 9.702 10.074 10.420	4.956 5.624 6.252 6.842 7.396 7.914 8.399 8.853 9.276 9.671 10.039	4 950 5·617 6·243 6 830 7·381 7·896 8·378 8·827 9·247 9·637	4·945 5·609 6·233 6·817 7·365 7·876 8·354 8·799 9·214	4·938 5·600 6·221 6·803 7·347 7·855 8·328 8·769	4·932 5·591 6·209 6·788 7·328 7·831 8·300	4·924 5·581 6·196 6·771 7·307 7·806 8·270	4·916 5·570 6·182 6·752 7·284 7·778 8·237	4·907 5·558 6·166 6·732 7·259 7·748	4.898 5.545 6.149 6.711 7.232 7.716	6 7 8 9 10 1
7 8 9 10 1 2 3 4	5 630 6 261 6 853 7 409 7 930 8 418 8 875 9 303 9 702 10 074 10 420	5·624 6·252 6·842 7·396 7·914 8·399 8·853 9·276 9·671 10·039	5·617 6·243 6 830 7·381 7·896 8·378 8·827 9·247 9·637	5·609 6·233 6·817 7·365 7·876 8·354 8·799 9·214	5·600 6·221 6·803 7·347 7·855 8·328 8·769	5·591 6·209 6·788 7·328 7·831 8·300	5·581 6·196 6·771 7·307 7·806 8·270	5·570 6·182 6·752 7·284 7·778 8·237	5.558 6.166 6.732 7.259 7.748	5·545 6·149 6·711 7·232 7·716	7 8 9 10 1
8 9 10 1 2 3 4	6·261 6·853 7·409 7·930 8·418 8·875 9·303 9·702 10·074 10·420	6·252 6·842 7·396 7·914 8·399 8·853 9·276 9·671 10·039	6·243 6 830 7·381 7·896 8·378 8·827 9·247 9·637	6·233 6·817 7·365 7·876 8·354 8·799 9·214	6·221 6·803 7·347 7·855 8·328 8·769	6·209 6·788 7·328 7·831 8·300	6·196 6·771 7·307 7·806 8·270	6·182 6·752 7·284 7·778 8·237	6·166 6·732 7·259 7·748	6·149 6·711 7·232 7·716	8 9 10 1
9 10 1 2 3 4	6·853 7·409 7·930 8·418 8·875 9·303 9·702 10·074 10·420	6·842 7·396 7·914 8·399 8·853 9·276 9·671 10·039	6 830 7·381 7·896 8·378 8·827 9·247	6·817 7·365 7·876 8·354 8·799 9·214	6·803 7·347 7·855 8·328 8·769	6·788 7·328 7·831 8·300	6·771 7·307 7·806 8·270	6·752 7·284 7·778 8·237	6·732 7·259 7·748	6 711 7·232 7·716	9 10 1
10 1 2 3 4	7·409 7·930 8·418 8·875 9·303 9·702 10·074 10·420	7·396 7·914 8·399 8·853 9·276 9·671 10·039	7·381 7·896 8·378 8·827 9·247	7·365 7·876 8·354 8·799 9·214	7·347 7·855 8·328 8·769	7:328 7:831 8:300	7·307 7·806 8·270	7·284 7·778 8·237	7·259 7·748	7·232 7·716	10 1
1 2 3 4	7-930 8-418 8-875 9-303 9-702 10-074 10-420	7·914 8·399 8·853 9·276 9·671 10·039	7·896 8·378 8·827 9·247 9·637	7·876 8·354 8·799 9·214	7·855 8·328 8·769	7·831 8·300	7·806 8·270	7·778 8·237	7.748	7.716	1
2 3 4	8·418 8·875 9·303 9·702 10·074 10·420	8·399 8·853 9·276 9·671 10·039	8·378 8·827 9·247 9·637	8·354 8·799 9·214	8·328 8·769	8.300	8.270	8.237			
3 4	8·875 9·303 9·702 10·074 10·420	8·853 9·276 9·671 10·039	8·827 9·247 9·637	8·799 9·214	8.769				8.202	N-163	
4	9·303 9·702 10·074 10·420	9·276 9·671 10·039	9·247 9·637	9.214		0.731			0.001		2
	9·702 10·074 10·420	9·671 10·039	9.637			0.140	8·701 9·100	8·662 9·056	8·621 9·007	8.575	3
	10·074 10·420	10.039		A		9.142				8.955	4
15	10.420		10.001	9.600	9.560	9.517	9.470	9.418	9.363	9.303	15
6		10:381	10.001	9.958	9.913	9.864	9.810	9.752	9 690	9.622	6
7	10.743		10.338	10.290	10.239	10.184	10.124	10.059	9.989	9.914	7
8		10.699	10.650	10.597	10.540	10.478 10.749	10.412 10.675	10 339 10 596	10·262 10·510	10.178	8
9	11.042	10.993	10.939	10.880	10.817					10.418	9
20	11.319	11.265	11.205	11.141	11.071	10.996	10.915	10.828	10.735	10.634	20
1	11.575	11.516	11.451	11.380	11.304	11.222	11.134	11.039	10.938	10.829	1
2	11.812	11.747	11.676	11.599	11.516	11.428	11.332	11.229	11.120	11.002	2
3	12.029	11.959	11.882	11.799	11.709	11.614	11·511 11·671	11·400 11·553	11·282 11·427	11·156 11·293	3
4	12.229	12.153	12.070	11.980	11.884	11.781	-		- 1		4
25	12.412	12 330	12.241	12.145	12.042	11.932	11.814	11.689	11.555	11.412	25
6	12.579	12.491	12.396	12.293	12.184	12.067	11.942	11.809	11.667	11.517	6
7	12.730	12.637	12.536	12.427	12:311	12·187 12·292	12·055 12·153	11·914 12·006	11·765 11·849	11.607 11.684	7
8	12.868	12.769	12.661	12.546 12.652	12·423 12·523	12.385	12.239	12.085	11.922	11.750	8 9
	12.992	12.887	12.773	1]	1				
30	13.103	12 992	12.873	12.745	12.610	12.466	12.314	12.153	11.984	11.805	30
1	13.203	13.086	12.961	12.828	12.686	12·536 12·596	12·378 12·432	12·211 12·259	12·035 12·079	11.851	1
2	13.291	13.169	13.039	12.899	12.752	12.647	12.478	12.300	12.114	11.889 11.920	2
3 4	13.369	13.242	13.106	12·961 13·014	12·808 12·856	12 690	12.516	12.333	12.143	11.944	3 4
	13.438	13.305	13.164	ļ	1	1	l l			_	
35	13.498	13.360	13.214	13.059	12.897	12.726	12·547 12·572	12.360	12.166	11.963	35
6	13.549	13.407	13.257	13:097	12.930	12 755	12.572	12·382 12·399	12·184 12·198	11.978	6
7	13.594	13.447	13.292	13.129	12.958	12·779 12·798	12.608	12.399	12.198	11·990 11·998	7
8	13.631 13.663	13·481 13·509	13·322 13·347	13·155 13·176	12·980 12·998	12.813	12.621	12 422	12.216	12.004	8
9				1	}	1	}	1	1		9
40	13.690	13.532	13.366	13.193	13.012	12.824	12.630 12.637	12·429 12·434	12·222 12·226	12 008	40
1	13.711	13.551	13.382	13.206	13.023	12·833 12·840	12.642	12 434	12.226	12·011 12·013	1
2	13·729 13·743	13.566	13·395 13·404	13·216 13·224	13·031 13·037	12.844	12.646	12.441	12.229	12.015	2
3 4	13.743 13.754	13·577 13·586	13.401	13.224	13.037	12.848	12.648	12.442	12.232	12 015 12 015	3 4
		1		1			12.650	12.444	12.232		
45	13 762	13.593	13.417	13.234	13.045	12.850 12.852	12.650	12.444	12.232	12.016 12.016	45
6	13.769	13.598	13.421	13.237	13 047	12.852	12.651	12.444	12.233	12.016	6
7 8	13·774 13·777	13.602 13.605	13·424 13·426	13·239 13·240	13·048 13·049	12.853	12.652	12.445	12.233	12.016	7 8
9	13.780	13.606		13 240	13.050	12.854	12.652		12.233	12.016	9
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	40	41	42	43	44	45	46	47	48	49	'
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Duration	50	51	52	53	54	55	56	57	58	59	Duration
Dur	11.795	11.569	11.338	11.104	10.865	10.623	10.377	10.128	9.876	9.622	Duı
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1	•945	•945	.944	944	943	.942	942	.941	•940	939	1
2	1.836 2.674	1·835 2·671	1·833 2·668	1·831 2·664	1·829 2·660	$1.827 \\ 2.656$	1.825 2.651	1·823 2·646	1·820 2·640	1·817 2·634	2
4	3.461	3.455	3.450	3.444	3.437	3 429	3.421	3.413	3.403	3.393	4
5	4.198	4.190	4.181	4.171	4.161	4.150	4.138	4.124	4.109	4.094	5
6	4.887	4.876	4.863	4.850	4.835	4.819	4.801	4.782	4.761	4.739	6
7	5.531	5.212	5.498	5.480	5.460	5.438	5.414	5.388	5.360	5.330	7
8	6.130	6.110	6.088	6.063	6.037	6.009	5.978	5.944	5 908	5.869	8
9	6.687	6.661	6.633	6.603	6.570	6.534	6.495	6.453	6.407	6.358	9
10	7.203	7.171	7.137	7.099	7.059	7.014	6.967	6.915	6.860	6.800	10
1	7.680	7.642	7 600	7.555	7.506	7.453	7:396	7.334	7.268	7.196	1
2	8.121	8.075	8.026	7.972	7.915	7.852	7.785	7.712	7.635	7.551	2
3 4	8·526 8·898	8·473 8·837	8·415 8·771	8·353 8·699	8·286 8·622	8·213 8·539	8·136 8·451	8 052 8 355	7·962 8·253	7·866 8·144	4
	9.239	9.169	9.094		8 926	8.832	8.732	8·6 2 5	8.510	8.388	15
15	9.239	9.169	9.094	9·013 9·296	9.198	9.094	8.732 8.982	8.863	8.736	8.601	6
7	9 832	9.745	9.651	9 550	9.442	9.326	9.203	9.072	8 933	8.786	7
8	10.088	9.992	9.888	9.777	9.658	9.532	9.398	9.254	9.103	8.944	8
9	10.319	10.213	10.100	9.979	9.850	9.712	9.567	9.412	9 249	9.078	9
20	10.527	10.411	10.288	10.157	10.018	9 869	9.713	9.547	9.373	9.191	20
1	10.712	10.587	10.455	10:314	10.164	10 005	9.838	9.662	9.478	9.285	1
2	10.877	10.743	10.601	10.450	10.290	10.122	9.945	9.759	9.564	9.362	2
3 4	11·022 11·150	10.880	10·728 10·838	10.568	10.399	10.221	10.035	9·839 9·905	9.636 9.694	9·424 9·474	3 4
1 -	11.261	11.101			10.569	10.374	1	9.959	9.740	9.514	_
25	11.358	11.130	10 [.] 933 11 [.] 013	10·755 10·827	10.633	10.431	10·170 10·220	10.002	9.776	9.544	25 6
7	11.440	11.265	11.031	10.888	10.686	10.477	10.260	10.035	9 804	9.567	7
8	11.511	11.328	11.137	10.937	10.729	10.514	10.291	10.061	9.826	9.584	8
9	11.570	11.380	11.183	10.977	10.764	10.543	10.315	10 081	9.841	9.597	9
30	11.619	11.423	11.220	11.009	10.791	10.565	10.333	10 096	9.853	9.605	30
1	11.659	11.458	11.250	11.034	10.812	10.582	10.347	10.106	9.861	9.611	1
2	11.692 11.718	11.486	11·274 11·292	11·054 11·069	10·827 10·839	10·595 10·604	10.356	10·114 10·119	9·867 9·870	9·616 9·618	2 3
3	11.738	11.525	11.306	11.030	10.848	10.610	10.363	10 113	9.873	9.620	4
- 1	11.754	11.538	11.316	11.087	10.854	10.615	10.371	10.125	9.874	9.621	35
35	11.766	11.548	11.323	11.093	10.858	10 618	10.371	10.126	9875	9.621	6
7	11.775	11.555	11.329	11.097	10.861	10.620	10.375	10.127	9.876	9.622	7
8	11 782	11.560	11.332	11.100	10.862	10.621	10.376	10.127	9.876	9.622	8
9	11.786	11.563	11.335	11.101	10.864	10.622	10.376	10.128	9.876	9.622	9
40	11.790	11.565	11.336	11.102	10.864	10.622	10.376	10.128	9.876	9.622	40
1	11.792	11.567	11.337	11.103	10.865	10.622	10.376	10.128	9.876	9.622	1
2 3	11·793 11·794	11·568 11·568	11:338 11:338	11.103	10.865 10.865	10 623 10 623	10.377	10 128 10 128	9·876 9 876	9·622 9·622	3
4	11.794	11.569	11.338	11.104	10.865	10.623	10.377	10.128	9.876	9.622	4
45	11.795	11.569	11.338	11.104	10.865	10.623	10.377	10.128	9.876	9.622	45
6	11.795	11.569	11.338	11.104	10.865	10.623	10.377	10.128	9.876	9.622	6
7	11.795	11.569	11.338	11.104	10.865	10.623	10.377	10.128	9.876	•••	7
8	11.795	11.569	11.338	11.104	10.865	10-623	10.377	10.128			8
9	11.795	11.569	11.338	11.104	10.865	10.623	10.377				9
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Fig.												
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2 9-151 8-933 8-708 8-477 8-241 7-999 7-754 7-506 7-257 7-005 2 3 9-205 8-980 8-747 8-509 8-267 8-020 7-771 7-519 7-266 7-012 3 4 9-248 9-016 8-777 8-534 8-286 8-035 7-782 7-519 7-266 7-012 3 6 9-306 9-063 8-815 8-563 8-309 8-053 7-795 7-536 7-278 7-020 25 7 9-325 9-077 8-826 8-72 8-315 8-057 7-798 7-536 7-278 7-021 7 8 9-338 9-088 8-834 8-578 8-319 8-065 7-801 7-540 7-280 7-021 9 30 9-354 9-099 8-843 8-584 8-324 8-062 7-801 7-541 7-281 7-021 9 30 9-354 9-099 8-843 8-586 8-325 8-063 7-802 7-541 <th>1</th> <th>9.083</th> <th>8.874</th> <th>8.658</th> <th>8.434</th> <th>8.205</th> <th>7.970</th> <th>7 731</th> <th>7.488</th> <th>7.243</th> <th>6.994</th> <th></th>	1	9.083	8.874	8.658	8.434	8.205	7.970	7 731	7.488	7.243	6.994	
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69	16.223	16.618	16.680	16.738	16.793	16.845	16.894	69
ั้ธ	16.221	16.616	16.677	16.734	16.788	16.840	16.888	8
7	16.548	16.613	16.673	16 729	16.783	16.833	16.881	7
6 5	16.545	16.603	16.668 16.662	16.723	16.776	16.826	16.873 16.863	1
1	16.240		1	16.717	16.769	16.807		1
64 3	16.535 16.528	16.280 16.280	16.654 16.646	16.708	16.760 16.749	16.796	16.852	64
2	16.520	16.280	16.635	16.687	16.737	16.782	16.825	
1	16.510	16.269	16.624	16.674	16.722	16.767	16.809	1
0	16.499	16.226	16.610	16.660	16.706	16.750	16.790	1
59	16.486	16.542	16.294	16.643	16.688	16.731	16.770	59
8	16.470	16.222	16.576	16 623	16.668	16.709	16.747	3
7 6	16.433 16.433	16.506 16.485	16.239	16.578	16.619	16.658	16.694	
5	16.410	16.460	16.507	16.551	16.201	16.628	16.663	
54	16.384	16.433	16.479	16.21	16.260	16.296	16.629	5
3	16.356	16.403	16.447	16.488	16.525	16.260	16.203	
2	16'324	16.370	16.412	16.451	16.488	16.721	16.22	
1 0	16.289 16.250	16.333	16.334	16.412	16.447	16.479 16.433	16.200 16.462	١,
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