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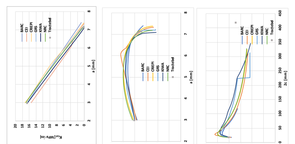
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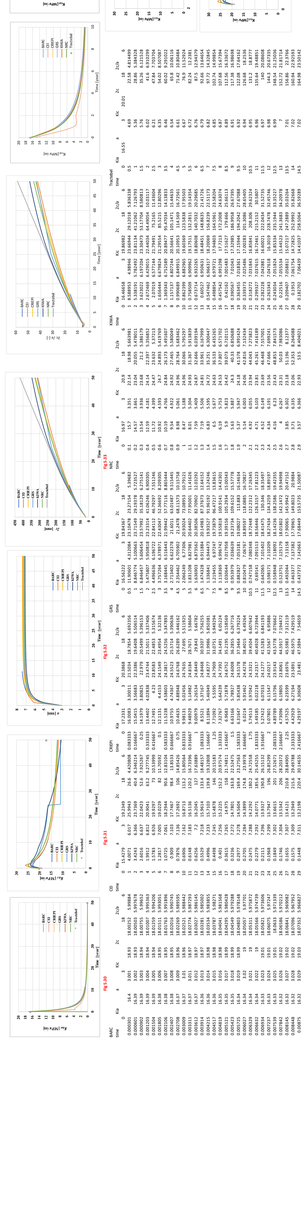
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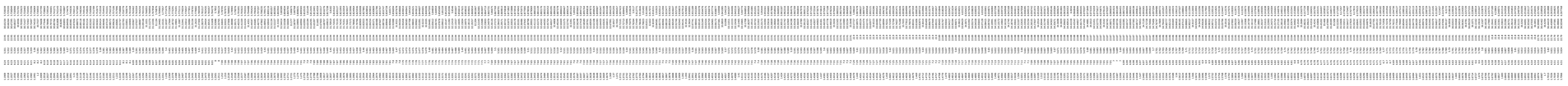
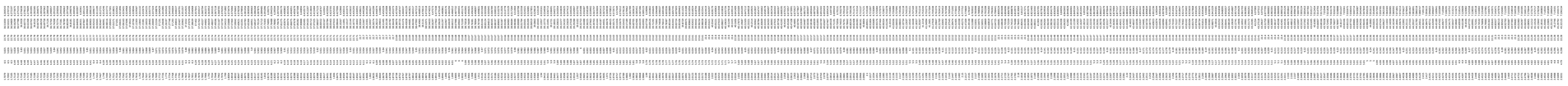
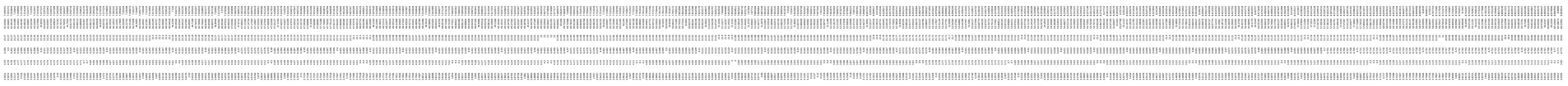
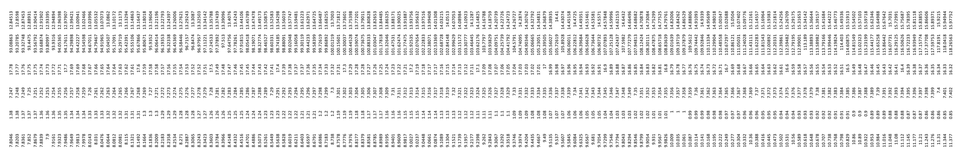
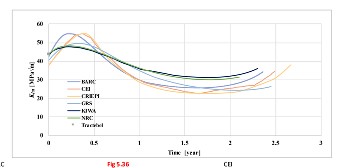
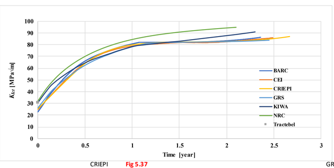


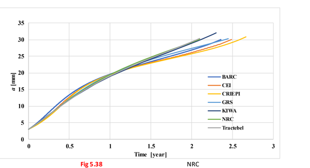


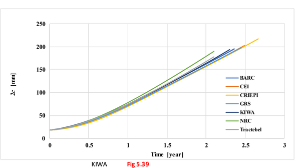


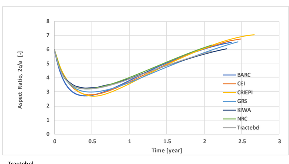


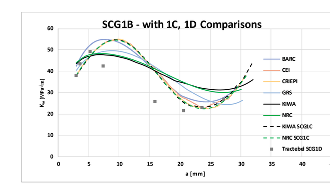


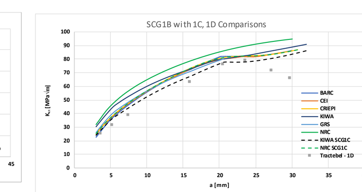












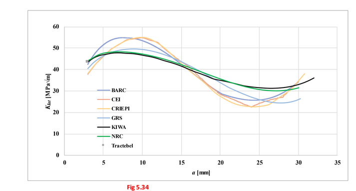
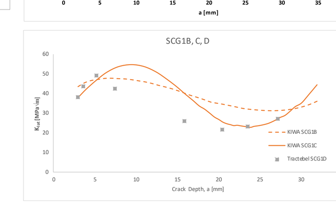


Fig 5.34



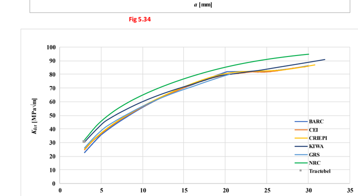
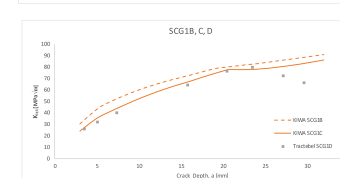


Fig 5.35



BARC (Fig 5.36)

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0.00019724	42.42	3.003	22.69	18.0022	5.994739
0.00026296	42.43	3.004	22.7	18.00294	5.992989
0.00032866	42.43	3.005	22.71	18.00367	5.991238
0.00039434	42.44	3.006	22.71	18.00441	5.989491
0.00046001	42.44	3.007	22.72	18.00515	5.987745
0.00052566	42.45	3.008	22.73	18.00588	5.985997
0.0005913	42.46	3.009	22.73	18.00662	5.984254
0.00065692	42.46	3.01	22.74	18.00735	5.982508
0.00072252	42.47	3.011	22.75	18.00809	5.980767
0.00078811	42.48	3.012	22.75	18.00883	5.979027
0.00085368	42.48	3.013	22.76	18.00956	5.977285
0.00091923	42.49	3.014	22.77	18.0103	5.975547
0.00098477	42.5	3.015	22.78	18.01104	5.973811
0.0010503	42.5	3.016	22.78	18.01177	5.972072
0.0011158	42.51	3.017	22.79	18.01251	5.970338
0.0011813	42.52	3.018	22.8	18.01325	5.968605
0.0012468	42.52	3.019	22.8	18.01399	5.966873
0.0013122	42.53	3.02	22.81	18.01472	5.965139
0.0013777	42.54	3.021	22.82	18.01546	5.963409
0.0014431	42.54	3.022	22.82	18.0162	5.961681
0.0015085	42.55	3.023	22.83	18.01694	5.959954
0.0015739	42.56	3.024	22.84	18.01768	5.958228
0.0016393	42.56	3.025	22.84	18.01842	5.956502
0.0017046	42.57	3.026	22.85	18.01915	5.954775
0.00177	42.58	3.027	22.86	18.01989	5.953053
0.0018353	42.58	3.028	22.86	18.02063	5.951331
0.0019006	42.59	3.029	22.87	18.02137	5.94961
0.0019659	42.59	3.03	22.88	18.02211	5.947891
0.0020312	42.6	3.031	22.88	18.02285	5.946173
0.0020965	42.61	3.032	22.89	18.02359	5.944456
0.0021617	42.61	3.033	22.9	18.02433	5.94274
0.002227	42.62	3.034	22.9	18.02507	5.941025
0.0022922	42.63	3.035	22.91	18.02581	5.939311
0.0023574	42.63	3.036	22.92	18.02655	5.937599
0.0024226	42.64	3.037	22.92	18.02729	5.935887
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0.0025529	42.65	3.039	22.94	18.02877	5.932468
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0.0027483	42.67	3.042	22.96	18.031	5.92735
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0.0028784	42.69	3.044	22.97	18.03248	5.923942
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0.0030085	42.7	3.046	22.99	18.03397	5.920542
0.0030736	42.7	3.047	22.99	18.03471	5.918841
0.0031386	42.71	3.048	23	18.03545	5.917142
0.0032036	42.72	3.049	23.01	18.03619	5.915444
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0.012782	43.66	3.199	24.02	18.14956	5.67351
0.012844	43.67	3.2	24.03	18.15033	5.671978
0.012907	43.67	3.201	24.04	18.1511	5.670447
0.01297	43.68	3.202	24.04	18.15186	5.668913
0.013033	43.68	3.203	24.05	18.15263	5.667384
0.013095	43.69	3.204	24.06	18.1534	5.665855
0.013158	43.7	3.205	24.06	18.15417	5.664328
0.013221	43.7	3.206	24.07	18.15494	5.662801
0.013283	43.71	3.207	24.08	18.15571	5.661275
0.013346	43.71	3.208	24.08	18.15648	5.659751
0.013409	43.72	3.209	24.09	18.15725	5.658227
0.013471	43.73	3.21	24.1	18.15802	5.656704
0.013534	43.73	3.211	24.1	18.1588	5.655185
0.013596	43.74	3.212	24.11	18.15957	5.653664
0.013659	43.74	3.213	24.12	18.16034	5.652144
0.013722	43.75	3.214	24.12	18.16111	5.650625
0.013784	43.76	3.215	24.13	18.16188	5.649107
0.013847	43.76	3.216	24.14	18.16265	5.64759
0.013909	43.77	3.217	24.14	18.16342	5.646074
0.013972	43.78	3.218	24.15	18.1642	5.644562
0.014034	43.78	3.219	24.16	18.16497	5.643048
0.014097	43.79	3.22	24.16	18.16574	5.641534
0.014159	43.79	3.221	24.17	18.16651	5.640022
0.014222	43.8	3.222	24.18	18.16728	5.63851
0.014284	43.81	3.223	24.18	18.16806	5.637003
0.014346	43.81	3.224	24.19	18.16883	5.635493
0.014409	43.82	3.225	24.2	18.1696	5.633984
0.014471	43.82	3.226	24.2	18.17038	5.632448
0.014534	43.83	3.227	24.21	18.17115	5.630973
0.014596	43.84	3.228	24.22	18.17192	5.629467
0.014658	43.84	3.229	24.22	18.1727	5.627965
0.014721	43.85	3.23	24.23	18.17347	5.626461
0.014783	43.85	3.231	24.24	18.17425	5.624961
0.014845	43.86	3.232	24.25	18.17502	5.623459
0.014908	43.87	3.233	24.25	18.1758	5.621961
0.01497	43.87	3.234	24.26	18.17657	5.620461
0.015032	43.88	3.235	24.27	18.17735	5.618964
0.015094	43.88	3.236	24.27	18.17812	5.617466
0.015157	43.89	3.237	24.28	18.1789	5.615972
0.015219	43.9	3.238	24.29	18.17967	5.614475
0.015281	43.9	3.239	24.29	18.18045	5.612982
0.015343	43.91	3.24	24.3	18.18122	5.611488
0.015405	43.91	3.241	24.31	18.182	5.609997
0.015468	43.92	3.242	24.31	18.18277	5.608504
0.01553	43.93	3.243	24.32	18.18355	5.607015
0.015592	43.93	3.244	24.33	18.18433	5.605527
0.015654	43.94	3.245	24.33	18.1851	5.604037
0.015716	43.94	3.246	24.34	18.18588	5.602551
0.015778	43.95	3.247	24.35	18.18666	5.601066
0.01584	43.96	3.248	24.35	18.18744	5.599581
0.015902	43.96	3.249	24.36	18.18821	5.598095
0.015964	43.97	3.25	24.37	18.18899	5.596612
0.016026	43.97	3.251	24.37	18.18977	5.595131
0.016089	43.98	3.252	24.38	18.19055	5.59365
0.016151	43.99	3.253	24.39	18.19132	5.592167
0.016213	43.99	3.254	24.39	18.1921	5.590688
0.016275	44	3.255	24.4	18.19288	5.58921
0.016337	44	3.256	24.41	18.19366	5.587733
0.016399	44.01	3.257	24.41	18.19444	5.586257
0.01646	44.02	3.258	24.42	18.19522	5.584782
0.016522	44.02	3.259	24.43	18.196	5.583308
0.016584	44.03	3.26	24.43	18.19678	5.581834
0.016646	44.03	3.261	24.44	18.19756	5.580362
0.016708	44.04	3.262	24.45	18.19833	5.578887
0.01677	44.05	3.263	24.45	18.19911	5.577416
0.016832	44.05	3.264	24.46	18.19989	5.575947
0.016894	44.06	3.265	24.47	18.20067	5.574478
0.016956	44.06	3.266	24.47	18.20146	5.573013
0.017017	44.07	3.267	24.48	18.20224	5.571546
0.017079	44.08	3.268	24.49	18.20302	5.57008
0.017141	44.08	3.269	24.5	18.2038	5.568614
0.017203	44.09	3.27	24.5	18.20458	5.56715
0.017265	44.09	3.271	24.51	18.20536	5.565686
0.017326	44.1	3.272	24.52	18.20614	5.564224
0.017388	44.11	3.273	24.52	18.20692	5.562762
0.01745	44.11	3.274	24.53	18.2077	5.561301
0.017512	44.12	3.275	24.54	18.20849	5.559844
0.017573	44.12	3.276	24.54	18.20927	5.558385
0.017635	44.13	3.277	24.55	18.21005	5.556927
0.017697	44.14	3.278	24.56	18.21083	5.55547
0.017758	44.14	3.279	24.56	18.21162	5.554016
0.01782	44.15	3.28	24.57	18.2124	5.552561
0.0178820	44.15	3.281	24.58	18.21318	5.551106
0.0179430	44.16	3.282	24.58	18.21397	5.549656
0.018005	44.16	3.283	24.59	18.21475	5.548203
0.018067	44.17	3.284	24.6	18.21553	5.546751
0.018128	44.18	3.285	24.6	18.21632	5.545303
0.01819	44.18	3.286	24.61	18.2171	5.543853
0.018251	44.19	3.287	24.62	18.21788	5.542403
0.018313	44.19	3.288	24.62	18.21867	5.540958
0.018374	44.2	3.289	24.63	18.21945	5.53951
0.018436	44.21	3.29	24.64	18.22024	5.538067
0.018497	44.21	3.291	24.64	18.22102	5.536621
0.018559	44.22	3.292	24.65	18.22181	5.535179
0.01862	44.22	3.293	24.66	18.22259	5.533735
0.018682	44.23	3.294	24.66	18.22338	5.532295
0.018743	44.24	3.295	24.67	18.22416	5.530853
0.018805	44.24	3.296	24.68	18.22495	5.529414
0.018866	44.25	3.297	24.68	18.22573	5.527974
0.018928	44.25	3.298	24.69	18.22652	5.526537
0.018989	44.26	3.299	24.7	18.22731	5.525102
0.019051	44.27	3.3	24.7	18.22809	5.523664
0.019112	44.27	3.301	24.71	18.22888	5.52223
0.019173	44.28	3.302	24.72	18.22967	5.520796
0.019235	44.28	3.303	24.72	18.23045	5.519361
0.019296	44.29	3.304	24.73	18.23124	5.51793
0.019357	44.29	3.305	24.74	18.23203	5.516499
0.019419	44.3	3.306	24.74	18.23281	5.515067
0.01948	44.31	3.307	24.75	18.2336	5.513638
0.019541	44.31	3.308	24.76	18.23439	5.51221
0.019603	44.32	3.309	24.77	18.23518	5.510783
0.019664	44.32	3.31	24.77	18.23597	5.509356
0.019725	44.33	3.311	24.78	18.23675	5.507928
0.019786	44.34	3.312	24.79	18.23754	5.506504
0.019848	44.34	3.313	24.79	18.23833	5.50508
0.019909	44.35	3.314	24.8	18.23912	5.503657
0.01997	44.35	3.315	24.81	18.23991	5.502235
0.020031	44.36	3.316	24.81	18.2407	5.500814
0.020092	44.37	3.317	24.82	18.24149	5.499394
0.020153	44.37	3.318	24.83	18.24228	5.497975
0.020215	44.38	3.319	24.83	18.24307	5.496556
0.020276	44.38	3.32	24.84	18.24386	5.495139
0.020337	44.39	3.321	24.85	18.24465	5.493722
0.020398	44.39	3.322	24.85	18.24544	5.492306
0.020459	44.4	3.323	24.86	18.24623	5.490891
0.02052	44.41	3.324	24.87	18.24702	5.489477
0.020581	44.41	3.325	24.87	18.24781	5.488063
0.020642	44.42	3.326	24.88	18.2486	5.486651
0.020703	44.42	3.327	24.89	18.24939	5.485239
0.020764	44.43	3.328	24.89	18.25018	5.483828
0.020825	44.44	3.329	24.9	18.25097	5.482418
0.020886	44.44	3.33	24.91	18.25177	5.481012
0.020947	44.45	3.331	24.91	18.25256	5.479604
0.021008	44.45	3.332	24.92	18.25335	5.478196
0.021069	44.46	3.333	24.93	18.25414	5.47679
0.02113	44.46	3.334	24.93	18.25493	5.475384
0.021191	44.47	3.335	24.94	18.25573	5.473982
0.021252	44.48	3.336	24.95	18.25652	5.472578
0.021313	44.48	3.337	24.95	18.25731	5.471175
0.021374	44.49	3.338	24.96	18.25811	5.469775
0.021435	44.49	3.339	24.97	18.2589	5.468374
0.021496	44.5	3.34	24.97	18.25969	5.466973
0.021557	44.5	3.341	24.98	18.26049	5.465576
0.021618	44.51	3.342	24.99	18.26128	5.464177
0.021678	44.52	3.343	24.99	18.26207	5.462779
0.021739	44.52	3.344	25	18.26287	5.461385
0.0218	44.53	3.345	25.01	18.26366	5.459988
0.021861	44.53	3.346	25.01	18.26446	5.458595
0.021922	44.54	3.347	25.02	18.26525	5.4572
0.021982	44.55	3.348	25.03	18.26605	5.455809
0.022043	44.55	3.349	25.03	18.26684	5.454416
0.022104	44.56	3.35	25.04	18.26764	5.453027
0.022165	44.56	3.351	25.05	18.26843	5.451635
0.022225	44.57	3.352	25.05	18.26923	5.450248
0.022286	44.57	3.353	25.06	18.27002	5.448858
0.022347	44.58	3.354	25.07	18.27082	5.447472
0.022408	44.59	3.355	25.08	18.27161	5.446083
0.022468	44.59	3.356	25.08	18.27241	5.444699
0.022529	44.6	3.357	25.09	18.27321	5.443315
0.02259	44.6	3.358	25.1	18.274	5.44193
0.02265	44.61	3.359	25.1	18.2748	5.440548
0.022711	44.61	3.36	25.11	18.2756	5.439167
0.022771	44.62	3.361	25.12	18.27639	5.437783
0.022832	44.63	3.362	25.12	18.27719	5.436404
0.022893	44.63	3.363	25.13	18.27799	5.435025
0.022953	44.64	3.364	25.14	18.27879	5.433647
0.023014	44.64	3.365	25.14	18.27959	5.43227
0.023074	44.65	3.366	25.15	18.28038	5.430891
0.023135	44.65	3.367	25.16	18.28118	5.429516
0.023195	44.66	3.368	25.16	18.28198	5.428141
0.023256	44.67	3.369	25.17	18.28278	5.426768
0.023316	44.67	3.37	25.18	18.28358	5.425395
0.023377	44.68	3.371	25.18	18.28438	5.424023
0.023437	44.68	3.372	25.19	18.28518	5.422651
0.023498	44.69	3.373	25.2	18.28597	5.421278
0.023558	44.69	3.374	25.2	18.28677	5.419908
0.023619	44.7	3.375	25.21	18.28757	5.418539
0.023679	44.71	3.376	25.22	18.28837	5.417171
0.02374	44.71	3.377	25.22	18.28917	5.415804
0.0238	44.72	3.378	25.23	18.28997	5.414438
0.02386	44.72	3.379	25.24	18.29077	5.413072
0.023921	44.73	3.38	25.24	18.29157	5.411707
0.023981	44.73	3.381	25.25	18.29238	5.410346
0.024042	44.74	3.382	25.26	18.29318	5.408983
0.024102	44.75	3.383	25.26	18.29398	5.40762
0.024162	44.75	3.384	25.27	18.29478	5.406259
0.024223	44.76	3.385	25.28	18.29558	5.404898
0.024283	44.76	3.386	25.28	18.29638	5.403538
0.024343	44.77	3.387	25.29	18.29718	5.402179
0.024403	44.77	3.388	25.3	18.29798	5.400821
0.024464	44.78	3.389	25.3	18.29879	5.399466
0.024524	44.79	3.39	25.31	18.29959	5.398109
0.024584	44.79	3.391	25.32	18.30039	5.396753
0.024644	44.8	3.392	25.32	18.30119	5.395398
0.024705	44.8	3.393	25.33	18.302	5.394047
0.024765	44.81	3.394	25.34	18.3028	5.392693
0.024825	44.81	3.395	25.34	18.3036	5.39134
0.024885	44.82	3.396	25.35	18.30441	5.389991
0.024945	44.83	3.397	25.36	18.30521	5.38864
0.025006	44.83	3.398	25.36	18.30601	5.38729
0.025066	44.84	3.399	25.37	18.30682	5.385943
0.025126	44.84	3.4	25.38	18.30762	5.384594
0.025186	44.85	3.401	25.38	18.30843	5.383249
0.025246	44.85	3.402	25.39	18.30923	5.381902
0.025306	44.86	3.403	25.4	18.31004	5.380558
0.025366	44.87	3.404	25.4	18.31084	5.379213
0.025426	44.87	3.405	25.41	18.31165	5.377871
0.025486	44.88	3.406	25.42	18.31245	5.376527
0.025546	44.88	3.407	25.43	18.31326	5.375186
0.025606	44.89	3.408	25.43	18.31406	5.373844
0.025667	44.89	3.409	25.44	18.31487	5.372505
0.025727	44.9	3.41	25.45	18.31567	5.371164
0.025787	44.91	3.411	25.45	18.31648	5.369827
0.025847	44.91	3.412	25.46	18.31729	5.368491
0.025906	44.92	3.413	25.47	18.31809	5.367152
0.025966	44.92	3.414	25.47	18.3189	5.365817
0.026026	44.93	3.415	25.48	18.31971	5.364483
0.026086	44.93	3.416	25.49	18.32051	5.363147
0.026146	44.94	3.417	25.49	18.32132	5.361814
0.026206	44.94	3.418	25.5	18.32213	5.360483
0.026266	44.95	3.419	25.51	18.32293	5.359149
0.026326	44.96	3.42	25.51	18.32374	5.357819
0.026386	44.96	3.421	25.52	18.32455	5.356489
0.026446	44.97	3.422	25.53	18.32536	5.355161
0.026506	44.97	3.423	25.53	18.32617	5.353833
0.026565	44.98	3.424	25.54	18.32697	5.352503
0.026625	44.98	3.425	25.55	18.32778	5.351177
0.026685	44.99	3.426	25.55	18.32859	5.349851
0.026745	45	3.427	25.56	18.3294	5.348526
0.026805	45	3.428	25.57	18.33021	5.347202
0.026865	45.01	3.429	25.57	18.33102	5.345879
0.026924	45.01	3.43	25.58	18.33183	5.344557
0.026984	45.02	3.431	25.59	18.33264	5.343235
0.027044	45.02	3.432	25.59	18.33345	5.341914
0.027104	45.03	3.433	25.6	18.33426	5.340594
0.027163	45.03	3.434	25.61	18.33507	5.339275
0.027223	45.04	3.435	25.61	18.33588	5.337956
0.027283	45.05	3.436	25.62	18.33669	5.336639
0.027342	45.05	3.437	25.63	18.3375	5.335322
0.027402	45.06	3.438	25.63	18.33831	5.334005
0.027462	45.06	3.439	25.64	18.33912	5.33269
0.027521	45.07	3.44	25.65	18.33993	5.331375
0.027581	45.07	3.441	25.65	18.34074	5.330061
0.027641	45.08	3.442	25.66	18.34156	5.328751
0.0277	45.09	3.443	25.67	18.34237	5.327438
0.02776	45.09	3.444	25.67	18.34318	5.326127
0.027819	45.1	3.445	25.68	18.34399	5.324816
0.027879	45.1	3.446	25.69	18.3448	5.323506
0.027939	45.11	3.447	25.69	18.34562	5.322199
0.027998	45.11	3.448	25.7	18.34643	5.32089
0.028058	45.12	3.449	25.71	18.34724	5.319582
0.028117	45.12	3.45	25.71	18.34805	5.318275
0.028177	45.13	3.451	25.72	18.34887	5.316972
0.028236	45.14	3.452	25.73	18.34968	5.315666
0.028296	45.14	3.453	25.73	18.3505	5.314364
0.028355	45.15	3.454	25.74	18.35131	5.31306

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time	Kia	a	Kic	2c	2c/a
0	37.7899	3	24.6852	18	6
0.01	38.4149	3.126	25.5357	18.128	5.799104
0.02	39.0622	3.256	26.4163	18.262	5.608722
0.03	39.701	3.39	27.3229	18.406	5.429499
0.04	40.347	3.527	28.258	18.556	5.261128
0.05	41.0016	3.667	29.212	18.716	5.1039
0.06	41.6691	3.811	30.1652	18.882	4.954605
0.07	42.3592	3.959	31.0549	19.06	4.814347
0.08	42.968	4.111	31.8867	19.244	4.681099
0.09	43.526	4.266	32.6992	19.436	4.556024
0.1	44.089	4.425	33.529	19.638	4.437966
0.11	44.6573	4.587	34.3763	19.846	4.326575
0.12	45.2324	4.752	35.2322	20	4.208754
0.13	45.8305	4.921	36.1238	20.2	4.104857
0.14	46.4177	5.093	37.0252	20.6	4.044767
0.15	47.0302	5.269	37.8684	20.8	3.947618
0.16	47.6588	5.448	38.7033	21	3.854626
0.17	48.3147	5.632	39.5567	21.2	3.764205
0.18	48.9635	5.819	40.4185	21.6	3.711978
0.19	49.6075	6.01	41.3025	21.8	3.627288
0.2	50.0132	6.206	42.126	22.2	3.577183
0.21	50.4438	6.404	42.974	22.4	3.497834
0.22	50.8606	6.605	43.8162	22.8	3.45193
0.23	51.2838	6.808	44.6676	23	3.378378
0.24	51.7148	7.015	45.5194	23.4	3.335709
0.25	52.1955	7.223	46.3404	23.8	3.29503
0.26	52.6669	7.436	47.1449	24	3.227542
0.27	53.1465	7.651	47.9597	24.4	3.189126
0.28	53.6338	7.869	48.793	24.8	3.151608
0.29	53.978	8.091	49.6253	25.2	3.114572
0.3	54.0563	8.314	50.4021	25.6	3.079144
0.31	54.1413	8.539	51.1868	26	3.044853
0.32	54.2354	8.763	51.9636	26.4	3.012667
0.33	54.3587	8.989	52.7724	26.8	2.981422
0.34	54.4693	9.215	53.5507	27.2	2.951709
0.35	54.5894	9.442	54.3214	27.6	2.92311
0.36	54.7391	9.67	55.1256	28.2	2.916236
0.37	54.8763	9.899	55.899	28.6	2.889181
0.38	54.7529	10.1	56.6514	29	2.871287
0.39	54.4357	10.4	57.3621	29.6	2.846154
0.4	54.1702	10.6	58.0759	30	2.830189
0.41	53.8948	10.8	58.7458	30.6	2.833333
0.42	53.6324	11	59.418	31	2.818182
0.43	53.4102	11.3	60.1093	31.6	2.79646
0.44	53.1749	11.5	60.7647	32.2	2.8
0.45	52.9528	11.7	61.4077	32.6	2.786325
0.46	52.7414	11.9	62.0545	33.2	2.789916
0.47	52.4219	12.1	62.6798	33.8	2.793388
0.48	51.5055	12.3	63.2364	34.4	2.796748
0.49	50.801	12.5	63.7734	35	2.8
0.5	50.1261	12.7	64.2995	35.6	2.80315
0.51	49.5104	12.9	64.8478	36.2	2.806202
0.52	48.8886	13.1	65.3548	36.8	2.80916
0.53	48.2923	13.3	65.8442	37.4	2.81203
0.54	47.7187	13.5	66.3248	38	2.814815
0.55	47.1978	13.7	66.8393	38.6	2.817518
0.56	46.6651	13.9	67.3046	39.2	2.820144
0.57	46.1512	14.1	67.7623	39.8	2.822695
0.58	45.6561	14.2	68.204	40.4	2.84507
0.59	45.2122	14.4	68.6987	41.2	2.861111
0.6	44.757	14.6	69.1117	41.8	2.863014
0.61	44.3181	14.7	69.5205	42.4	2.884354
0.62	43.8951	14.9	69.9118	43.2	2.899329
0.63	43.4831	15.1	70.3068	43.8	2.900662
0.64	43.1233	15.2	70.738	44.4	2.921053
0.65	42.7369	15.4	71.1107	45.2	2.935065
0.66	42.3615	15.5	71.4773	45.8	2.954839
0.67	41.9963	15.7	71.8381	46.6	2.968153
0.68	41.6387	15.8	72.2042	47.2	2.987342
0.69	41.2926	16	72.554	48	3
0.7	40.8097	16.1	72.902	48.6	3.018634
0.71	40.2767	16.3	73.178	49.4	3.030675
0.72	39.7598	16.4	73.4479	50.2	3.060976
0.73	39.2582	16.5	73.712	50.8	3.078788
0.74	38.7709	16.7	73.9705	51.6	3.08982
0.75	38.3443	16.8	74.2896	52.4	3.119048
0.76	37.8831	16.9	74.5386	53	3.136095
0.77	37.4341	17.1	74.7826	53.8	3.146199
0.78	36.9993	17.2	75.0103	54.6	3.174419
0.79	36.573	17.3	75.2448	55.4	3.202312
0.8	36.1572	17.4	75.4749	56.2	3.229885
0.81	35.7516	17.6	75.7006	56.8	3.227273
0.82	35.4065	17.7	75.9916	57.6	3.254237
0.83	35.019	17.8	76.2101	58.4	3.280899
0.84	34.6404	17.9	76.4248	59.2	3.307263
0.85	34.2702	18	76.6356	60	3.333333
0.86	33.9278	18.1	76.7974	60.8	3.359116
0.87	33.595	18.2	76.9499	61.6	3.384615
0.88	33.2727	18.3	77.0847	62.4	3.409836
0.89	33.0128	18.4	77.3118	63.2	3.434783
0.9	32.6979	18.5	77.4561	64	3.459459
0.91	32.3889	18.6	77.5974	64.8	3.483871
0.92	32.0855	18.7	77.7358	65.6	3.508021
0.93	31.7875	18.8	77.8715	66.4	3.531915
0.94	31.4948	18.9	78.0045	67.2	3.555556
0.95	31.2072	19	78.1349	68	3.578947
0.96	30.9201	19.1	78.2587	68.8	3.602094
0.97	30.7087	19.2	78.4871	69.6	3.625
0.98	30.4349	19.3	78.6111	70.4	3.647668
0.99	30.1657	19.4	78.7326	71.2	3.670103
1	29.9007	19.5	78.8519	72	3.692308
1.01	29.6401	19.6	78.9688	72.8	3.714286
1.02	29.3835	19.6	79.0836	73.6	3.755102
1.03	29.131	19.7	79.1962	74.4	3.77665
1.04	28.8775	19.8	79.3223	75.4	3.808081
1.05	28.6328	19.9	79.4307	76.2	3.829146
1.06	28.3919	20	79.537	77	3.85
1.07	28.3132	20.1	79.7156	77.8	3.870647
1.08	28.1819	20.1	79.812	78.6	3.910448
1.09	28.0554	20.2	79.8922	79.4	3.930693
1.1	27.9284	20.3	79.9721	80.4	3.960591
1.11	27.7956	20.4	80.0677	81.2	3.980392
1.12	27.6777	20.5	80.1246	82	4
1.13	27.5784	20.5	80.1388	82.8	4.039024
1.14	27.4701	20.6	80.1741	83.6	4.058252
1.15	27.3685	20.7	80.1895	84.6	4.086957
1.16	27.258	20.8	80.226	85.4	4.105769
1.17	27.2439	20.8	80.3414	86.2	4.144231
1.18	27.131	20.9	80.3799	87	4.162679
1.19	27.0257	21	80.398	87.8	4.180952
1.2	26.9114	21.1	80.4373	88.8	4.208531
1.21	26.805	21.1	80.456	89.6	4.246445
1.22	26.6895	21.2	80.4959	90.4	4.264151
1.23	26.5738	21.3	80.5361	91.2	4.28169
1.24	26.4662	21.3	80.5553	92.2	4.328638
1.25	26.3497	21.4	80.5959	93	4.345794
1.26	26.2415	21.5	80.6153	93.8	4.362791
1.27	26.1246	21.6	80.6562	94.6	4.37963
1.28	26.1071	21.6	80.7979	95.6	4.425926
1.29	25.9893	21.7	80.8399	96.4	4.442396
1.3	25.8805	21.8	80.8602	97.2	4.458716
1.31	25.7625	21.8	80.9022	98.2	4.504587
1.32	25.6447	21.9	80.9442	99	4.520548
1.33	25.527	22	80.9861	99.8	4.536364
1.34	25.4187	22	81.006	100.6	4.572727
1.35	25.3012	22.1	81.0478	101.6	4.597285
1.36	25.184	22.2	81.0894	102.4	4.612613
1.37	25.0671	22.2	81.1309	103.2	4.648649
1.38	24.9505	22.3	81.1722	104.2	4.672646
1.39	24.8342	22.4	81.2134	105	4.6875
1.4	24.8376	22.4	81.3656	105.8	4.723214
1.41	24.7308	22.5	81.3851	106.6	4.737778
1.42	24.6143	22.6	81.4269	107.6	4.761062
1.43	24.4983	22.6	81.4685	108.4	4.79646
1.44	24.3828	22.7	81.5098	109.2	4.810573
1.45	24.2677	22.8	81.5508	110.2	4.833333
1.46	24.1531	22.8	81.5916	111	4.868421
1.47	24.039	22.9	81.6322	111.8	4.882096
1.48	23.9254	22.9	81.6724	112.8	4.925764
1.49	23.8123	23	81.7124	113.6	4.93913
1.5	23.6997	23.1	81.752	114.4	4.952381
1.51	23.5877	23.1	81.7914	115.4	4.995671
1.52	23.4941	23.2	81.7961	116.2	5.008621
1.53	23.5467	23.2	81.8851	117	5.043103
1.54	23.467	23.3	81.863	118	5.064378
1.55	23.387	23.4	81.8414	118.8	5.076923
1.56	23.3067	23.4	81.8204	119.8	5.119658
1.57	23.2263	23.5	81.7999	120.6	5.131915
1.58	23.1457	23.5	81.7799	121.4	5.165957
1.59	23.0649	23.6	81.7603	122.4	5.186441
1.6	22.9841	23.6	81.7412	123.2	5.220339
1.61	22.8876	23.7	81.7541	124	5.232068
1.62	22.807	23.8	81.7355	125	5.252101
1.63	22.7263	23.8	81.7174	125.8	5.285714
1.64	22.6457	23.9	81.6996	126.6	5.297071
1.65	22.565	23.9	81.6821	127.6	5.338912
1.66	22.4844	24	81.665	128.4	5.35
1.67	22.6938	24	81.7527	129.2	5.383333
1.68	22.7798	24.1	81.757	130.2	5.40249
1.69	22.8807	24.2	81.7311	131	5.413223
1.7	22.9799	24.2	81.7074	131.8	5.446281
1.71	23.0772	24.3	81.6859	132.8	5.465021
1.72	23.156	24.3	81.6991	133.6	5.497942
1.73	23.25	24.4	81.6816	134.4	5.508197
1.74	23.3424	24.4	81.6661	135.4	5.54918
1.75	23.4331	24.5	81.6526	136.2	5.559184
1.76	23.5053	24.6	81.6739	137	5.569106
1.77	23.5931	24.6	81.664	138	5.609756
1.78	23.6794	24.7	81.656	138.8	5.619433
1.79	23.7472	24.7	81.6828	139.6	5.651822
1.8	23.8307	24.8	81.6782	140.6	5.669355
1.81	24.0862	24.9	81.7934	141.4	5.678715
1.82	24.1496	24.9	81.827	142.2	5.710843
1.83	24.23	25	81.8286	143.2	5.728
1.84	24.3091	25	81.8317	144	5.76
1.85	24.3687	25.1	81.8702	145	5.776892
1.86	24.4454	25.2	81.8763	145.8	5.785714
1.87	24.5026	25.2	81.9178	146.6	5.81746
1.88	24.5771	25.3	81.9268	147.6	5.833992
1.89	24.6505	25.4	81.9371	148.4	5.84252
1.9	24.7043	25.4	81.983	149.2	5.874016
1.91	24.7755	25.5	81.996	150.2	5.890196
1.92	24.8272	25.5	82.0445	151	5.921569
1.93	25.0807	25.6	82.1782	151.8	5.929688
1.94	25.1301	25.7	82.2311	152.8	5.945525
1.95	25.1982	25.7	82.2505	153.6	5.976654
1.96	25.2458	25.8	82.3059	154.6	5.992248
1.97	25.3121	25.9	82.3276	155.4	6
1.98	25.3578	25.9	82.3854	156.2	6.030888
1.99	25.4224	26	82.4092	157.2	6.046154
2	25.4663	26.1	82.4693	158	6.05364
2.01	25.5293	26.1	82.4953	159	6.091954
2.02	25.5716	26.2	82.5576	159.8	6.099237
2.03	25.633	26.3	82.5856	160.6	6.106464
2.04	25.6736	26.3	82.65	161.6	6.144487
2.05	25.9462	26.4	82.8024	162.4	6.151515
2.06	25.9849	26.5	82.871	163.4	6.166038
2.07	26.0442	26.6	82.9046	164.2	6.172932
2.08	26.0815	26.6	82.9751	165.2	6.210526
2.09	26.1393	26.7	83.0105	166	6.217228
2.1	26.1752	26.8	83.0828	167	6.231343
2.11	26.2318	26.8	83.12	167.8	6.261194
2.12	26.2663	26.9	83.1942	168.6	6.267658
2.13	26.3002	27	83.2691	169.6	6.281481
2.14	26.355	27	83.3086	170.4	6.311111
2.15	26.3876	27.1	83.3853	171.4	6.324723
2.16	26.4412	27.2	83.4264	172.2	6.330882
2.17	26.6955	27.3	83.6279	173.2	6.344322
2.18	26.726	27.3	83.7092	174	6.373626
2.19	26.7788	27.4	83.7543	175	6.386861
2.2	26.8081	27.5	83.8372	175.8	6.392727
2.21	26.8598	27.6	83.8836	176.8	6.405797
2.22	26.888	27.6	83.968	177.6	6.434783
2.23	26.9158	27.7	84.0531	178.6	6.447653
2.24	26.966	27.8	84.1015	179.6	6.460432
2.25	26.9927	27.8	84.1879	180.4	6.489209
2.26	27.042	27.9	84.2376	181.4	6.501792
2.27	27.0677	28	84.3255	182.2	6.507143
2.28	27.5509	28.1	84.5002	183.2	6.519573
2.29	27.8354	28.1	84.5146	184	6.548043
2.3	28.0978	28.2	84.5695	185	6.560284
2.31	28.3625	28.3	84.6268	186	6.572438
2.32	28.6538	28.4	84.6484	186.8	6.577465
2.33	28.9232	28.5	84.7106	187.8	6.589474
2.34	29.1949	28.5	84.7752	188.6	6.617544
2.35	29.469	28.6	84.8422	189.6	6.629371
2.36	29.7703	28.7	84.8732	190.6	6.641115
2.37	30.3124	28.8	85.0693	191.4	6.645833
2.38	30.5976	28.9	85.1459	192.4	6.657439
2.39	30.9238	29	85.1694	193.2	6.662069
2.4	31.2326	29.1	85.2273	194.2	6.67354
2.41	31.5438	29.2	85.2888	195.2	6.684932
2.42	31.8576	29.3	85.3539	196	6.68942
2.43	32.1741	29.4	85.4225	197	6.70068
2.44	32.5333	29.5	85.4366	198	6.711864
2.45	32.8555	29.6	85.5129	198.8	6.716216
2.46	33.4519	29.7	85.7175	199.8	6.727273
2.47	33.783	29.8	85.8038	200.8	6.738255
2.48	34.1171	29.9	85.8939	201.6	6.742475
2.49	34.4972	30	85.928	202.6	6.753333

CRIEPI (Fig 5.37)

time	Kia	a	Kic	2c	2c/a
0	38.1435	3	25.2835	18	6
0.083333	42.8734	4.06998	32.0231	19.1083	4.694937
0.166667	47.5537	5.36003	38.743	20.726	3.866769
0.25	51.5508	6.88267	45.4047	22.92	3.330103
0.333333	54.3351	8.6152	51.9378	25.7481	2.988683
0.416667	54.7682	10.4999	58.226	29.2549	2.786207
0.5	51.2035	12.4086	63.9506	33.4652	2.696936
0.583333	45.7289	14.1225	68.6305	38.3572	2.716035
0.666667	40.9404	15.5527	72.2133	43.8344	2.818443
0.75	37.2993	16.751	74.9543	49.7763	2.971542
0.833333	34.3173	17.7833	77.0775	56.0831	3.153695
0.916667	31.3373	18.6868	78.7089	62.6781	3.354138
1	28.7784	19.4681	79.8894	69.4979	3.569835
1.083333	27.1776	20.1498	80.7022	76.4821	3.795675
1.166667	25.8644	20.7719	81.2789	83.5804	4.023724
1.25	24.796	21.3466	81.6748	90.76	4.251731
1.333333	23.9988	21.8838	81.9356	97.9956	4.477997
1.416667	23.4383	22.3936	82.1044	105.268	4.700807
1.5	23.0942	22.8845	82.2163	112.565	4.918832
1.583333	22.8499	23.3639	82.3008	119.877	5.130864
1.666667	22.6719	23.8352	82.3728	127.202	5.336729
1.75	22.608	24.3007	82.4418	134.537	5.536343
1.833333	22.709	24.764	82.52	141.881	5.729325
1.916667	22.9028	25.2307	82.6234	149.237	5.914897
2	23.1715	25.7038	82.7592	156.608	6.092796
2.083333	23.6207	26.1858	82.932	163.998	6.26286
2.166667	24.694	26.6828	83.1552	171.412	6.424063
2.25	26.1235	27.2164	83.4837	178.859	6.571736
2.333333	27.5349	27.8003	83.9429	186.352	6.703237
2.416667	29.1148	28.4356	84.5158	193.912	6.819339
2.5	31.0224	29.1301	85.1972	201.555	6.919132
2.583333	34.2494	29.8988	85.9853	209.296	7.000147
2.666667	38.0272	30.7995	86.9449	217.152	7.050504

GRS (Fig 5.38)

time	Kia	a	Kic	2c	2c/a
0	40.444	3	26.10425	18	6
0.05	43.2385	3.745993	31.15809	18.81179	5.021844
0.1	45.43776	4.564267	36.25874	19.8666	4.352638
0.15	47.12174	5.440035	40.91599	21.18143	3.893619
0.2	48.39122	6.361175	44.55245	22.72295	3.572131
0.25	49.17733	7.314108	47.95143	24.47242	3.345919
0.3	49.54338	8.284714	51.17256	26.4247	3.189573
0.35	49.57693	9.261745	54.3514	28.58408	3.086252
0.4	49.25626	10.23414	57.28489	30.9469	3.02389
0.45	48.62915	11.19153	59.97145	33.50275	2.99358
0.5	47.7479	12.12531	62.41567	36.23971	2.988765
0.55	46.66661	13.02874	64.62717	39.14498	3.00451
0.6	45.43807	13.89695	66.61936	42.2054	3.037027
0.65	44.11091	14.72684	68.40813	45.40793	3.083346
0.7	42.72773	15.51682	70.01076	48.73996	3.141106
0.75	41.34873	16.26671	71.5383	52.19117	3.208465
0.8	40.01098	16.97837	73.08524	55.76502	3.284474
0.85	38.68823	17.65313	74.50388	59.45673	3.368056
0.9	37.39712	18.29235	75.80699	63.25785	3.458159
0.95	36.14977	18.89777	77.00634	67.16064	3.553893
1	34.95453	19.47132	78.11266	71.15798	3.654503
1.05	33.81674	20.01504	79.13565	75.2434	3.759343
1.1	32.7394	20.53101	80.08402	79.41101	3.867858
1.15	31.72373	21.02125	80.96558	83.65545	3.979566
1.2	30.81859	21.48924	81.27631	87.95378	4.092921
1.25	30.1851	21.93929	81.4441	92.26861	4.205634
1.3	29.49133	22.37262	81.58776	96.59664	4.317627
1.35	28.8395	22.79042	81.71102	100.936	4.428877
1.4	28.23091	23.19387	81.81731	105.2851	4.539349
1.45	27.6662	23.58412	81.90978	109.6426	4.649001
1.5	27.14553	23.96232	81.99129	114.0075	4.757783
1.55	26.7015	24.3299	82.0584	118.3788	4.865567
1.6	26.29703	24.68829	82.11961	122.7554	4.972213
1.65	25.92889	25.03836	82.17734	127.1372	5.077697
1.7	25.59789	25.38095	82.23318	131.5238	5.181988
1.75	25.30484	25.71693	82.28864	135.9151	5.285044
1.8	25.05059	26.04714	82.34516	140.3112	5.386818
1.85	24.83616	26.37244	82.4041	144.7122	5.487251
1.9	24.66277	26.69371	82.46681	149.1184	5.586276
1.95	24.53194	27.01182	82.53461	153.5302	5.683816
2	24.44561	27.32768	82.60882	157.9481	5.779783
2.05	24.40622	27.64224	82.69078	162.3726	5.874075
2.1	24.41685	27.9565	82.78191	166.8045	5.966575
2.15	24.48139	28.27152	82.8837	171.2447	6.057146
2.2	24.60475	28.58848	82.99777	175.6942	6.145629
2.25	24.79313	28.90865	83.12591	180.154	6.231838
2.3	25.05441	29.23348	83.27018	184.6255	6.31555
2.35	25.39867	29.56463	83.43293	189.1102	6.396502
2.4	25.83888	29.90404	83.61697	193.6098	6.474371
2.45	26.39201	30.25401	83.82564	198.1264	6.548765

NRC

time	Kia	a	Kic	2c	2c/a
0	44.08	3	31.955	18	6
0.1	47.219	4.617	43.435	19.933	4.317306
0.2	48.228	6.423	52.484	23.092	3.595205
0.3	48.057	8.29	59.541	27.368	3.301327
0.4	47.134	10.147	65.247	32.601	3.212871
0.5	45.681	11.947	69.978	38.659	3.235875
0.6	43.891	13.66	73.942	45.435	3.326135
0.7	41.937	15.266	77.275	52.835	3.460959
0.8	39.967	16.759	80.078	60.776	3.626469
0.9	38.083	18.142	82.434	69.183	3.813416
1	36.353	19.421	84.418	77.989	4.015705
1.1	34.834	20.61	86.092	87.137	4.227899
1.2	33.522	21.719	87.515	96.577	4.44666
1.3	32.407	22.763	88.735	106.267	4.668409
1.4	31.53	23.751	89.789	116.175	4.891373
1.5	30.854	24.697	90.715	126.271	5.112807
1.6	30.37	25.611	91.542	136.535	5.331108
1.7	30.132	26.502	92.29	146.949	5.544827
1.8	30.067	27.382	92.982	157.499	5.751917
1.9	30.282	28.259	93.624	168.176	5.951237
2	30.714	29.146	94.228	178.972	6.140534
2.1	31.491	30.053	94.784	189.879	6.318138

KIWA (Fig 5.39)

time	Kia	a	Kic	2c	2c/a
0	43.53135	3	30.33772	18	6
0.046028	45.45378	3.787211	35.58066	19.14663	5.055602
0.092056	46.58324	4.574421	40.48237	20.293261	4.436246
0.138084	47.1388	5.374515	45.05407	21.592519	4.017575
0.184112	47.67857	6.214296	48.32011	23.36197	3.759391
0.23014	47.78086	7.054077	51.23578	25.131421	3.56268
0.276167	47.56103	7.892056	53.88812	26.988795	3.419742
0.322195	47.41318	8.721961	56.41783	29.240239	3.352485
0.368223	46.99857	9.551865	58.78781	31.491682	3.296914
0.414251	46.43239	10.36734	60.95078	33.868197	3.266816
0.460279	45.8984	11.14647	62.87337	36.559789	3.279944
0.506307	45.15707	11.9256	64.68577	39.251382	3.291356
0.552335	44.23156	12.70472	66.39521	41.942974	3.301369
0.598363	43.51061	13.40926	67.85447	44.977498	3.354212
0.644391	42.77473	14.08597	69.19261	48.139959	3.417582
0.690419	41.90572	14.76268	70.47302	51.302421	3.475143
0.736446	40.92222	15.43939	71.69723	54.464883	3.527657
0.782474	39.8573	16.1161	72.93198	57.627344	3.575762
0.828502	38.89837	16.76616	74.24399	60.898708	3.63224
0.87453	38.19117	17.33765	75.39091	64.491116	3.719715
0.920558	37.41439	17.90914	76.50579	68.083524	3.801609
0.966586	36.58103	18.48062	77.58873	71.675932	3.878437
1.012614	35.7031	19.05211	78.63991	75.26834	3.950656
1.058642	35.26191	19.5427	79.26809	79.177988	4.051537
1.10467	34.93914	20.03171	79.65081	83.093857	4.148116
1.150698	34.57377	20.52072	80.0485	87.009726	4.240092
1.196725	34.1757	21.00972	80.45703	90.925595	4.327786
1.242753	33.75412	21.49873	80.87303	94.841464	4.411491
1.288781	33.31762	21.98774	81.29368	98.757333	4.491473
1.334809	32.87437	22.47674	81.71669	102.6732	4.567975
1.380837	32.4322	22.96575	82.14013	106.58907	4.641219
1.426865	32.18015	23.40859	82.43675	110.71381	4.729624
1.472893	31.94892	23.846	82.72563	114.86309	4.816871
1.518921	31.7627	24.28341	83.10776	119.01237	4.900975
1.564949	31.61003	24.72082	83.54405	123.16165	4.982103
1.610977	31.47472	25.15823	83.98577	127.31093	5.060409
1.657004	31.36198	25.59564	84.43149	131.46022	5.13604
1.703032	31.2771	26.03305	84.88002	135.6095	5.209128
1.74906	31.23672	26.47102	85.32491	139.82391	5.282151
1.795088	31.26765	26.91067	85.75591	144.23519	5.359777
1.841116	31.34072	27.35032	86.18944	148.64647	5.434907
1.887144	31.46191	27.78997	86.62469	153.05774	5.50766
1.933172	31.63726	28.22963	87.061	157.46902	5.578148
1.9792	31.87295	28.66928	87.49785	161.8803	5.646473
2.025228	32.17525	29.10893	87.93483	166.29158	5.712734
2.071256	32.55054	29.54858	88.37163	170.70286	5.777023
2.117284	33.01258	30.01192	88.84028	175.22115	5.838386
2.163311	33.58369	30.49697	89.33667	179.83756	5.8969
2.209339	34.27091	30.98201	89.83092	184.45397	5.953583
2.255367	35.08957	31.4746	90.33397	189.08897	6.007668
2.301395	36.08107	31.99943	90.88151	193.77882	6.055696

Tractebel

time	Kia	a	Kic	2c	2c/a
0	43.63	3	30.57	18	6
0.05		3.8		18.9	4.973684
0.1		4.65		20.08	4.31828
0.15		5.53		21.56	3.898734
0.2		6.43		23.3	3.623639
0.25		7.35		25.26	3.436735
0.3		8.26		27.44	3.322034
0.35		9.17		29.8	3.249727
0.4		10.07		32.36	3.213505
0.45		10.95		35.08	3.203653
0.5		11.81		38	3.217612
0.55		12.65		41.06	3.24585
0.6		13.47		44.28	3.287305
0.65		14.26		47.64	3.340813
0.7		15.02		51.12	3.403462
0.75		15.75		54.72	3.474286
0.8		16.46		58.42	3.54921
0.85		17.14		62.24	3.631272
0.9		17.8		66.18	3.717978
0.95		18.43		70.22	3.810092
1		19.04		74.36	3.905462
1.05		19.62		78.58	4.005097
1.1		20.19		82.92	4.106984
1.15		20.75		87.28	4.206265
1.2		21.3		91.68	4.304225
1.25		21.84		96.14	4.402015
1.3		22.36		100.62	4.5
1.35		22.89		105.14	4.593272
1.4		23.4		109.7	4.688034
1.45		23.9		114.3	4.782427
1.5		24.4		118.94	4.87459
1.55		24.9		123.6	4.963855
1.6		25.38		128.32	5.05595
1.65		25.87		133.08	5.144182
1.7		26.36		137.9	5.231411
1.75		26.84		142.74	5.318182
1.8		27.32		147.64	5.40441
1.85		27.81		152.58	5.486516
1.9		28.3		157.56	5.567491
1.95		28.79		162.58	5.6471
2		29.29		167.64	5.723455
2.05		29.8		172.76	5.797315
2.1		30.32		177.92	5.868074
2.15		30.86		183.14	5.934543
2.2		31.41		188.4	5.99809
2.25		31.99		193.7	6.055017
2.3		32.59		199.08	6.108622

0.028415	45.15	3.455	25.75	18.35212	5.311757
0.028474	45.16	3.456	25.75	18.35294	5.310457
0.028534	45.16	3.457	25.76	18.35375	5.309155
0.028593	45.17	3.458	25.77	18.35457	5.307857
0.028653	45.17	3.459	25.77	18.35538	5.306557
0.028712	45.18	3.46	25.78	18.3562	5.30526
0.028771	45.19	3.461	25.79	18.35701	5.303961
0.028831	45.19	3.462	25.79	18.35783	5.302666
0.02889	45.2	3.463	25.8	18.35864	5.301369
0.02895	45.2	3.464	25.81	18.35946	5.300075
0.029009	45.21	3.465	25.81	18.36027	5.298779
0.029068	45.21	3.466	25.82	18.36109	5.297487
0.029128	45.22	3.467	25.83	18.3619	5.296193
0.029187	45.22	3.468	25.84	18.36272	5.294902
0.029246	45.23	3.469	25.84	18.36354	5.293612
0.029306	45.23	3.47	25.85	18.36435	5.29232
0.029365	45.24	3.471	25.86	18.36517	5.291031
0.029424	45.25	3.472	25.86	18.36599	5.289744
0.029483	45.25	3.473	25.87	18.3668	5.288454
0.029543	45.26	3.474	25.88	18.36762	5.287168
0.029602	45.26	3.475	25.88	18.36844	5.285882
0.029661	45.27	3.476	25.89	18.36926	5.284597
0.02972	45.27	3.477	25.9	18.37007	5.28331
0.02978	45.28	3.478	25.9	18.37089	5.282027
0.029839	45.28	3.479	25.91	18.37171	5.280744
0.029898	45.29	3.48	25.92	18.37253	5.279463
0.029957	45.3	3.481	25.92	18.37335	5.278182
0.030016	45.3	3.482	25.93	18.37417	5.276901
0.030075	45.31	3.483	25.94	18.37499	5.275622
0.030135	45.31	3.484	25.94	18.37581	5.274343
0.030194	45.32	3.485	25.95	18.37662	5.273062
0.030253	45.32	3.486	25.96	18.37744	5.271784
0.030312	45.33	3.487	25.96	18.37826	5.270508
0.030371	45.33	3.488	25.97	18.37908	5.269232
0.03043	45.34	3.489	25.98	18.3799	5.267956
0.030489	45.35	3.49	25.98	18.38072	5.266682
0.030548	45.35	3.491	25.99	18.38154	5.265408
0.030607	45.36	3.492	26	18.38236	5.264135
0.030666	45.36	3.493	26	18.38319	5.262866
0.030725	45.37	3.494	26.01	18.38401	5.261594
0.030784	45.37	3.495	26.02	18.38483	5.260323
0.030843	45.38	3.496	26.02	18.38565	5.259053
0.030902	45.38	3.497	26.03	18.38647	5.257784
0.030961	45.39	3.498	26.04	18.38729	5.256515
0.03102	45.39	3.499	26.04	18.38811	5.255247
0.031079	45.4	3.5	26.05	18.38894	5.253983
0.031138	45.41	3.501	26.06	18.38976	5.252716
0.031197	45.41	3.502	26.06	18.39058	5.251451
0.031256	45.42	3.503	26.07	18.3914	5.250186
0.031315	45.42	3.504	26.08	18.39223	5.248924
0.031374	45.43	3.505	26.08	18.39305	5.24766
0.031433	45.43	3.506	26.09	18.39387	5.246398
0.031492	45.44	3.507	26.1	18.3947	5.245138
0.031551	45.44	3.508	26.1	18.39552	5.243877
0.031609	45.45	3.509	26.11	18.39634	5.242616
0.031668	45.45	3.51	26.12	18.39717	5.241359
0.031727	45.46	3.511	26.12	18.39799	5.2401
0.031786	45.47	3.512	26.13	18.39881	5.238841
0.031845	45.47	3.513	26.14	18.39964	5.237586
0.031904	45.48	3.514	26.14	18.40046	5.236329
0.031962	45.48	3.515	26.15	18.40129	5.235075
0.032021	45.49	3.516	26.16	18.40211	5.23382
0.03208	45.49	3.517	26.16	18.40294	5.232568
0.032139	45.5	3.518	26.17	18.40376	5.231313
0.032197	45.5	3.519	26.18	18.40459	5.230063
0.032256	45.51	3.52	26.18	18.40541	5.22881
0.032315	45.51	3.521	26.19	18.40624	5.22756
0.032374	45.52	3.522	26.2	18.40707	5.226312
0.032432	45.52	3.523	26.2	18.40789	5.225061
0.032491	45.53	3.524	26.21	18.40872	5.223814
0.03255	45.54	3.525	26.22	18.40955	5.222567
0.032608	45.54	3.526	26.22	18.41037	5.221319
0.032667	45.55	3.527	26.23	18.4112	5.220074
0.032726	45.55	3.528	26.24	18.41203	5.218829
0.032784	45.56	3.529	26.24	18.41285	5.217583
0.032843	45.56	3.53	26.25	18.41368	5.21634
0.032901	45.57	3.531	26.26	18.41451	5.215098
0.03296	45.57	3.532	26.26	18.41534	5.213856
0.033019	45.58	3.533	26.27	18.41616	5.212613
0.033077	45.58	3.534	26.28	18.41699	5.211372
0.033136	45.59	3.535	26.28	18.41782	5.210133
0.033194	45.6	3.536	26.29	18.41865	5.208894
0.033253	45.6	3.537	26.3	18.41948	5.207656
0.033311	45.61	3.538	26.3	18.42031	5.206419
0.03337	45.61	3.539	26.31	18.42114	5.205182
0.033428	45.62	3.54	26.32	18.42197	5.203946
0.033487	45.62	3.541	26.32	18.4228	5.202711
0.033545	45.63	3.542	26.33	18.42362	5.201474
0.033604	45.63	3.543	26.34	18.42445	5.20024
0.033662	45.64	3.544	26.34	18.42528	5.199007
0.033721	45.64	3.545	26.35	18.42611	5.197774
0.033779	45.65	3.546	26.36	18.42695	5.196545
0.033838	45.65	3.547	26.36	18.42778	5.195314
0.033896	45.66	3.548	26.37	18.42861	5.194084
0.033955	45.66	3.549	26.38	18.42944	5.192854
0.034013	45.67	3.55	26.39	18.43027	5.191625
0.034071	45.68	3.551	26.39	18.4311	5.190397
0.03413	45.68	3.552	26.4	18.43193	5.189169
0.034188	45.69	3.553	26.41	18.43276	5.187943
0.034246	45.69	3.554	26.41	18.43359	5.186716
0.034305	45.7	3.555	26.42	18.43443	5.185494
0.034363	45.7	3.556	26.43	18.43526	5.184269
0.034422	45.71	3.557	26.43	18.43609	5.183045
0.03448	45.71	3.558	26.44	18.43692	5.181821
0.034538	45.72	3.559	26.45	18.43776	5.180601
0.034596	45.72	3.56	26.45	18.43859	5.179379
0.034655	45.73	3.561	26.46	18.43942	5.178158
0.034713	45.73	3.562	26.47	18.44026	5.17694
0.034771	45.74	3.563	26.47	18.44109	5.17572
0.034829	45.75	3.564	26.48	18.44192	5.174501
0.034888	45.75	3.565	26.49	18.44276	5.173285
0.034946	45.76	3.566	26.49	18.44359	5.172067
0.035004	45.76	3.567	26.5	18.44442	5.170849
0.035062	45.77	3.568	26.51	18.44526	5.169636
0.035121	45.77	3.569	26.51	18.44609	5.16842
0.035179	45.78	3.57	26.52	18.44693	5.167207
0.035237	45.78	3.571	26.53	18.44776	5.165993
0.035295	45.79	3.572	26.53	18.4486	5.164782
0.035353	45.79	3.573	26.54	18.44943	5.163568
0.035411	45.8	3.574	26.55	18.45027	5.162359
0.035469	45.8	3.575	26.55	18.4511	5.161147
0.035528	45.81	3.576	26.56	18.45194	5.159938
0.035586	45.81	3.577	26.57	18.45278	5.158731
0.035644	45.82	3.578	26.57	18.45361	5.157521
0.035702	45.82	3.579	26.58	18.45445	5.156315
0.03576	45.83	3.58	26.59	18.45529	5.155109
0.035818	45.84	3.581	26.59	18.45612	5.153901
0.035876	45.84	3.582	26.6	18.45696	5.152697
0.035934	45.85	3.583	26.61	18.4578	5.151493
0.035992	45.85	3.584	26.61	18.45863	5.150287
0.03605	45.86	3.585	26.62	18.45947	5.149085
0.036108	45.86	3.586	26.63	18.46031	5.147883
0.036166	45.87	3.587	26.63	18.46115	5.146682
0.036224	45.87	3.588	26.64	18.46198	5.145479
0.036282	45.88	3.589	26.65	18.46282	5.14428
0.03634	45.88	3.59	26.65	18.46366	5.143081
0.036398	45.89	3.591	26.66	18.4645	5.141882
0.036456	45.89	3.592	26.67	18.46534	5.140685
0.036514	45.9	3.593	26.67	18.46618	5.139488
0.036572	45.9	3.594	26.68	18.46702	5.138292
0.03663	45.91	3.595	26.69	18.46786	5.137096
0.036688	45.91	3.596	26.69	18.46869	5.135898
0.036746	45.92	3.597	26.7	18.46953	5.134704
0.036804	45.93	3.598	26.71	18.47037	5.13351
0.036861	45.93	3.599	26.71	18.47121	5.132317
0.036919	45.94	3.6	26.72	18.47205	5.131125
0.036977	45.94	3.601	26.73	18.47289	5.129933
0.037035	45.95	3.602	26.73	18.47374	5.128745
0.037093	45.95	3.603	26.74	18.47458	5.127555
0.037151	45.96	3.604	26.75	18.47542	5.126365
0.037208	45.96	3.605	26.75	18.47626	5.125176
0.037266	45.97	3.606	26.76	18.4771	5.123988
0.037324	45.97	3.607	26.77	18.47794	5.1228
0.037382	45.98	3.608	26.77	18.47878	5.121613
0.03744	45.98	3.609	26.78	18.47962	5.120427
0.037497	45.99	3.61	26.79	18.48047	5.119244
0.037555	45.99	3.611	26.79	18.48131	5.118059
0.037613	46	3.612	26.8	18.48215	5.116874
0.03767	46	3.613	26.81	18.48299	5.115691
0.037728	46.01	3.614	26.81	18.48384	5.11451
0.037786	46.01	3.615	26.82	18.48468	5.113328
0.037844	46.02	3.616	26.83	18.48552	5.112146
0.037901	46.02	3.617	26.83	18.48637	5.110968
0.037959	46.03	3.618	26.84	18.48721	5.109787
0.038017	46.04	3.619	26.85	18.48805	5.108607
0.038074	46.04	3.62	26.85	18.4889	5.107431
0.038132	46.05	3.621	26.86	18.48974	5.106252
0.03819	46.05	3.622	26.87	18.49059	5.105077
0.038247	46.06	3.623	26.87	18.49143	5.1039
0.038305	46.06	3.624	26.88	18.49227	5.102724
0.038362	46.07	3.625	26.89	18.49312	5.10155
0.03842	46.07	3.626	26.89	18.49396	5.100375
0.038478	46.08	3.627	26.9	18.49481	5.099203
0.038535	46.08	3.628	26.91	18.49565	5.098029
0.038593	46.09	3.629	26.91	18.4965	5.096859
0.03865	46.09	3.63	26.92	18.49735	5.095689
0.038708	46.1	3.631	26.93	18.49819	5.094517
0.038765	46.1	3.632	26.93	18.49904	5.093348
0.038823	46.11	3.633	26.94	18.49988	5.092177
0.03888	46.11	3.634	26.95	18.50073	5.09101
0.038938	46.12	3.635	26.95	18.50158	5.089843
0.038995	46.12	3.636	26.96	18.50242	5.088674
0.039053	46.13	3.637	26.97	18.50327	5.087509
0.03911	46.13	3.638	26.97	18.50412	5.086344
0.039168	46.14	3.639	26.98	18.50496	5.085177
0.039225	46.14	3.64	26.99	18.50581	5.084014
0.039283	46.15	3.641	26.99	18.50666	5.082851
0.03934	46.15	3.642	27	18.50751	5.081689
0.039397	46.16	3.643	27.01	18.50836	5.080527
0.039455	46.17	3.644	27.01	18.5092	5.079363
0.039512	46.17	3.645	27.02	18.51005	5.078203
0.03957	46.18	3.646	27.03	18.5109	5.077043
0.039627	46.18	3.647	27.03	18.51175	5.075884
0.039684	46.19	3.648	27.04	18.5126	5.074726
0.039742	46.19	3.649	27.05	18.51345	5.073568
0.039799	46.2	3.65	27.05	18.5143	5.072411
0.039856	46.2	3.651	27.06	18.51515	5.071254
0.039914	46.21	3.652	27.07	18.516	5.070099
0.039971	46.21	3.653	27.07	18.51685	5.068943
0.040028	46.22	3.654	27.08	18.5177	5.067789
0.040086	46.22	3.655	27.09	18.51855	5.066635
0.040143	46.23	3.656	27.09	18.5194	5.065481
0.0402	46.23	3.657	27.1	18.52025	5.064329
0.040257	46.24	3.658	27.11	18.5211	5.063177
0.040315	46.24	3.659	27.11	18.52195	5.062025
0.040372	46.25	3.66	27.12	18.5228	5.060874
0.040429	46.25	3.661	27.13	18.52365	5.059724
0.040486	46.26	3.662	27.13	18.5245	5.058575
0.040543	46.26	3.663	27.14	18.52536	5.057428
0.040601	46.27	3.664	27.15	18.52621	5.05628
0.040658	46.27	3.665	27.15	18.52706	5.055132
0.040715	46.28	3.666	27.16	18.52791	5.053985
0.040772	46.28	3.667	27.17	18.52876	5.052839
0.040829	46.29	3.668	27.17	18.52962	5.051696
0.040887	46.29	3.669	27.18	18.53047	5.050551
0.040944	46.3	3.67	27.19	18.53132	5.049406
0.041001	46.3	3.671	27.19	18.53218	5.048265
0.041058	46.31	3.672	27.2	18.53303	5.047121
0.041115	46.31	3.673	27.21	18.53388	5.045979
0.041172	46.32	3.674	27.21	18.53474	5.044839
0.041229	46.32	3.675	27.22	18.53559	5.043698
0.041286	46.33	3.676	27.23	18.53644	5.042557
0.041343	46.33	3.677	27.23	18.5373	5.04142
0.0414	46.34	3.678	27.24	18.53815	5.04028
0.041457	46.34	3.679	27.25	18.53901	5.039144
0.041514	46.35	3.68	27.25	18.53986	5.038005
0.041571	46.35	3.681	27.26	18.54072	5.03687
0.041629	46.36	3.682	27.27	18.54157	5.035733
0.041686	46.37	3.683	27.27	18.54243	5.0346
0.041743	46.37	3.684	27.28	18.54328	5.033464
0.041799	46.38	3.685	27.29	18.54414	5.032331
0.041856	46.38	3.686	27.29	18.545	5.031199
0.041913	46.39	3.687	27.3	18.54585	5.030065
0.04197	46.39	3.688	27.31	18.54671	5.028934
0.042027	46.4	3.689	27.31	18.54757	5.027804
0.042084	46.4	3.69	27.32	18.54842	5.026672
0.042141	46.41	3.691	27.33	18.54928	5.025543
0.042198	46.41	3.692	27.33	18.55014	5.024415
0.042255	46.42	3.693	27.34	18.55099	5.023285
0.042312	46.42	3.694	27.35	18.55185	5.022158
0.042369	46.43	3.695	27.35	18.55271	5.021031
0.042426	46.43	3.696	27.36	18.55357	5.019905
0.042483	46.44	3.697	27.37	18.55442	5.018777
0.042539	46.44	3.698	27.37	18.55528	5.017653
0.042596	46.45	3.699	27.38	18.55614	5.016529
0.042653	46.45	3.7	27.39	18.557	5.015405
0.04271	46.46	3.701	27.39	18.55786	5.014283
0.042767	46.46	3.702	27.4	18.55872	5.01316
0.042824	46.47	3.703	27.41	18.55958	5.012039
0.04288	46.47	3.704	27.41	18.56044	5.010918
0.042937	46.48	3.705	27.42	18.56129	5.009795
0.042994	46.48	3.706	27.43	18.56215	5.008675
0.043051	46.49	3.707	27.43	18.56301	5.007556
0.043107	46.49	3.708	27.44	18.56387	5.006437
0.043164	46.5	3.709	27.45	18.56473	5.005319
0.043221	46.5	3.71	27.45	18.56559	5.004202
0.043278	46.51	3.711	27.46	18.56646	5.003088
0.043334	46.51	3.712	27.47	18.56732	5.001972
0.043391	46.52	3.713	27.47	18.56818	5.000856
0.043448	46.52	3.714	27.48	18.56904	4.999742
0.043504	46.53	3.715	27.49	18.5699	4.998627
0.043561	46.53	3.716	27.49	18.57076	4.997513
0.043618	46.54	3.717	27.5	18.57162	4.9964
0.043674	46.54	3.718	27.51	18.57248	4.995288
0.043731	46.55	3.719	27.51	18.57335	4.994179
0.043788	46.55	3.72	27.52	18.57421	4.993067
0.043844	46.56	3.721	27.53	18.57507	4.991956
0.043901	46.56	3.722	27.53	18.57593	4.990846
0.043958	46.57	3.723	27.54	18.5768	4.989739
0.044014	46.57	3.724	27.55	18.57766	4.988631
0.044071	46.58	3.725	27.55	18.57852	4.987522
0.044127	46.58	3.726	27.56	18.57939	4.986417
0.044184	46.59	3.727	27.57	18.58025	4.98531
0.044241	46.59	3.728	27.57	18.58111	4.984203
0.044297	46.6	3.729	27.58	18.58198	4.9831
0.044354	46.6	3.73	27.59	18.58284	4.981995
0.04441	46.61	3.731	27.59	18.58371	4.980893
0.044467	46.61	3.732	27.6	18.58457	4.979788
0.044523	46.62	3.733	27.61	18.58544	4.978687
0.04458	46.62	3.734	27.61	18.5863	4.977584
0.044636	46.63	3.735	27.62	18.58717	4.976485
0.044693	46.63	3.736	27.63	18.58803	4.975383
0.044749	46.64	3.737	27.63	18.5889	4.974284
0.044806	46.64	3.738	27.64	18.58976	4.973184
0.044862	46.65	3.739	27.65	18.59063	4.972086
0.044919	46.65	3.74	27.65	18.59149	4.970987
0.044975	46.66	3.741	27.66	18.59236	4.96989
0.045031	46.66	3.742	27.67	18.59323	4.968795
0.045088	46.67	3.743	27.67	18.59409	4.967697
0.045144	46.67	3.744	27.68	18.59496	4.966603
0.045201	46.68	3.745	27.69	18.59583	4.965509
0.045257	46.68	3.746	27.69	18.59669	4.964413
0.045313	46.69	3.747	27.7	18.59756	4.96332
0.04537	46.69	3.748	27.71	18.59843	4.962228
0.045426	46.7	3.749	27.71	18.59929	4.961134
0.045482	46.7	3.75	27.72	18.60016	4.960043
0.045539	46.71	3.751	27.73	18.60103	4.958952
0.045595	46.71	3.752	27.73	18.6019	4.957862
0.045651	46.72	3.753	27.74	18.60277	4.956773
0.045708	46.72	3.754	27.75	18.60364	4.955685
0.045764	46.73	3.755	27.75	18.6045	4.954594
0.04582	46.73	3.756	27.76	18.60537	4.953506
0.045877	46.74	3.757	27.77	18.60624	4.952419
0.045933	46.74	3.758	27.77	18.60711	4.951333
0.045989	46.75	3.759	27.78	18.60798	4.950247
0.046045	46.75	3.76	27.79	18.60885	4.949162
0.046102	46.76	3.761	27.79	18.60972	4.948078
0.046158	46.76	3.762	27.8	18.61059	4.946994
0.046214	46.77	3.763	27.81	18.61146	4.94591
0.04627	46.77	3.764	27.81	18.61233	4.944827
0.046327	46.78	3.765	27.82	18.6132	4.943745
0.046383	46.78	3.766	27.83	18.61407	4.942663
0.046439	46.79	3.767	27.83	18.61494	4.941582
0.046495	46.79	3.768	27.84	18.61582	4.940504
0.046551	46.8	3.769	27.85	18.61669	4.939424
0.046607	46.8	3.77	27.85	18.61756	4.938345
0.046664	46.81	3.771	27.86	18.61843	4.937266
0.04672	46.81	3.772	27.87	18.6193	4.936188
0.046776	46.82	3.773	27.87	18.62017	4.93511
0.046832	46.82	3.774	27.88	18.62105	4.934036
0.046888	46.83	3.775	27.89	18.62192	4.932959
0.046944	46.83	3.776	27.89	18.62279	4.931883
0.047	46.84	3.777	27.9	18.62366	4.930808
0.047056	46.84	3.778	27.91	18.62454	4.929735
0.047112	46.84	3.779	27.91	18.62541	4.928661
0.047169	46.85	3.78	27.92	18.62628	4.927587
0.047225	46.85	3.781	27.93	18.62716	4.926517
0.047281	46.86	3.782	27.93	18.62803	4.925444
0.047337	46.86	3.783	27.94	18.6289	4.924372
0.047393	46.87	3.784	27.95	18.62978	4.923303
0.047449	46.87	3.785	27.95	18.63065	4.922232
0.047505	46.88	3.786	27.96	18.63153	4.921165
0.047561	46.88	3.787	27.97	18.6324	4.920095
0.047617	46.89	3.788	27.97	18.63328	4.919029
0.047673	46.89	3.789	27.98	18.63415	4.91796
0.047729	46.9	3.79	27.99	18.63503	4.916894
0.047785	46.9	3.791	27.99	18.6359	4.915827
0.047841	46.91	3.792	28	18.63678	4.914763
0.047897	46.91	3.793	28.01	18.63765	4.913696
0.047952	46.92	3.794	28.01	18.63853	4.912633
0.048008	46.92	3.795	28.02	18.63941	4.91157
0.048064	46.93	3.796	28.03	18.64028	4.910506
0.04812	46.93	3.797	28.03	18.64116	4.909444
0.048176	46.94	3.798	28.04	18.64204	4.908383
0.048232	46.94	3.799	28.05	18.64291	4.90732
0.048288	46.95	3.8	28.05	18.64379	4.906261
0.048344	46.95	3.801	28.06	18.64467	4.905201
0.0484	46.96	3.802	28.07	18.64555	4.904143
0.048455	46.96	3.803	28.07	18.64642	4.903082
0.048511	46.97	3.804	28.08	18.6473	4.902024
0.048567	46.97	3.805	28.09	18.64818	4.900967
0.048623	46.98	3.806	28.09	18.64906	4.899911
0.048679	46.98	3.807	28.1	18.64994	4.898855
0.048735	46.99	3.808	28.11	18.65081	4.897797
0.04879	46.99	3.809	28.11	18.65169	4.896742
0.048846	47	3.81	28.12	18.65257	4.895688
0.048902	47	3.811	28.13	18.65345	4.894634
0.048958	47.01	3.812	28.13	18.65433	4.893581
0.049013	47.01	3.813	28.14	18.65521	4.892528
0.049069	47.02	3.814	28.15	18.65609	4.891476
0.049125	47.02	3.815	28.15	18.65697	4.890425
0.049181	47.02	3.816	28.16	18.65785	4.889374
0.049236	47.03	3.817	28.17	18.65873	4.888323
0.049292	47.03	3.818	28.17	18.65961	4.887273
0.049348	47.04	3.819	28.18	18.66049	4.886224
0.049403	47.04	3.82	28.19	18.66137	4.885175
0.049459	47.05	3.821	28.19	18.66225	4.884127
0.049515	47.05	3.822	28.2	18.66313	4.88308
0.049571	47.06	3.823	28.2	18.66402	4.882035
0.049626	47.06	3.824	28.21	18.6649	4.880988
0.049682	47.07	3.825	28.22	18.66578	4.879942
0.049737	47.07	3.826	28.22	18.66666	4.878897
0.049793	47.08	3.827	28.23	18.66754	4.877852
0.049849	47.08	3.828	28.24	18.66843	4.87681
0.049904	47.09	3.829	28.24	18.66931	4.875767
0.04996	47.09	3.83	28.25	18.67019	4.874723
0.050016	47.1	3.831	28.26	18.67107	4.873681
0.050071	47.1	3.832	28.26	18.67196	4.872641
0.050127	47.11	3.833	28.27	18.67284	4.871599
0.050182	47.11	3.834	28.28	18.67372	4.870558
0.050238	47.12	3.835	28.28	18.67461	4.86952
0.050293	47.12	3.836	28.29	18.67549	4.86848
0.050349	47.13	3.837	28.3	18.67638	4.867443
0.050404	47.13	3.838	28.3	18.67726	4.866404
0.05046	47.14	3.839	28.31	18.67814	4.865366
0.050515	47.14	3.84	28.32	18.67903	4.864331
0.050571	47.15	3.841	28.32	18.67991	4.863293
0.050626	47.15	3.842	28.33	18.6808	4.862259
0.050682	47.15	3.843	28.34	18.68168	4.861223
0.050737	47.16	3.844	28.34	18.68257	4.86019
0.050793	47.16	3.845	28.35	18.68345	4.859155
0.050848	47.17	3.846	28.36	18.68434	4.858123
0.050904	47.17	3.847	28.36	18.68523	4.857091
0.050959	47.18	3.848	28.37	18.68611	4.856058
0.051015	47.18	3.849	28.38	18.687	4.855027
0.05107	47.19	3.85	28.38	18.68789	4.853997
0.051125	47.19	3.851	28.39	18.68877	4.852965
0.051181	47.2	3.852	28.4	18.68966	4.851937
0.051236	47.2	3.853	28.4	18.69055	4.850908
0.051292	47.21	3.854	28.41	18.69143	4.849878
0.051347	47.21	3.855	28.42	18.69232	4.848851
0.051402	47.22	3.856	28.42	18.69321	4.847824
0.051458	47.22	3.857	28.43	18.6941	4.846798
0.051513	47.23	3.858	28.44	18.69498	4.84577
0.051568	47.23	3.859	28.44	18.69587	4.844745
0.051624	47.24	3.86	28.45	18.69676	4.84372
0.051679	47.24	3.861	28.46	18.69765	4.842696
0.051734	47.25	3.862	28.46	18.69854	4.841673
0.05179	47.25	3.863	28.47	18.69943	4.84065
0.051845	47.25	3.864	28.48	18.70032	4.839627
0.0519	47.26	3.865	28.48	18.70121	4.838605
0.051956	47.26	3.866	28.49	18.70209	4.837581
0.052011	47.27	3.867	28.5	18.70298	4.836561
0.052066	47.27	3.868	28.5	18.70387	4.83554
0.052121	47.28	3.869	28.51	18.70476	4.834521
0.052177	47.28	3.87	28.52	18.70565	4.833501
0.052232	47.29	3.871	28.52	18.70655	4.832485
0.052287	47.29	3.872	28.53	18.70744	4.831467
0.052342	47.3	3.873	28.54	18.70833	4.830449
0.052398	47.3	3.874	28.54	18.70922	4.829432
0.052453	47.31	3.875	28.55	18.71011	4.828415
0.052508	47.31	3.876	28.56	18.711	4.827399
0.052563	47.32	3.877	28.56	18.71189	4.826384
0.052618	47.32	3.878	28.57	18.71278	4.825369
0.052673	47.33	3.879	28.58	18.71368	4.824357
0.052729	47.33	3.88	28.58	18.71457	4.823343
0.052784	47.34	3.881	28.59	18.71546	4.822329
0.052839	47.34	3.882	28.6	18.71635	4.821316
0.052894	47.34	3.883	28.6	18.71725	4.820306
0.052949	47.35	3.884	28.61	18.71814	4.819295
0.053004	47.35	3.885	28.62	18.71903	4.818283
0.053059	47.36	3.886	28.62	18.71992	4.817272
0.053114	47.36	3.887	28.63	18.72082	4.816264
0.05317	47.37	3.888	28.64	18.72171	4.815255
0.053225	47.37	3.889	28.64	18.72261	4.814248
0.05328	47.38	3.89	28.65	18.7235	4.813239
0.053335	47.38	3.891	28.66	18.72439	4.812231
0.05339	47.39	3.892	28.66	18.72529	4.811226
0.053445	47.39	3.893	28.67	18.72618	4.810218
0.0535	47.4	3.894	28.68	18.72708	4.809214
0.053555	47.4	3.895	28.68	18.72797	4.808208
0.05361	47.41	3.896	28.69	18.72887	4.807205
0.053665	47.41	3.897	28.7	18.72976	4.8062
0.05372	47.41	3.898	28.7	18.73066	4.805198
0.053775	47.42	3.899	28.71	18.73155	4.804193
0.05383	47.42	3.9	28.71	18.73245	4.803192
0.053885	47.43	3.901	28.72	18.73335	4.802192
0.05394	47.43	3.902	28.73	18.73424	4.801189
0.053995	47.44	3.903	28.73	18.73514	4.80019
0.05405	47.44	3.904	28.74	18.73604	4.799191
0.054105	47.45	3.905	28.75	18.73693	4.79819
0.05416	47.45	3.906	28.75	18.73783	4.797192
0.054215	47.46	3.907	28.76	18.73873	4.796194
0.054269	47.46	3.908	28.77	18.73962	4.795194
0.054324	47.47	3.909	28.77	18.74052	4.794198
0.054379	47.47	3.91	28.78	18.74142	4.793202
0.054434	47.48	3.911	28.79	18.74232	4.792207
0.054489	47.48	3.912	28.79	18.74322	4.791212
0.054544	47.48	3.913	28.8	18.74411	4.790215
0.054599	47.49	3.914	28.81	18.74501	4.789221
0.054654	47.49	3.915	28.81	18.74591	4.788227
0.054708	47.5	3.916	28.82	18.74681	4.787234
0.054763	47.5	3.917	28.83	18.74771	4.786242
0.054818	47.51	3.918	28.83	18.74861	4.78525
0.054873	47.51	3.919	28.84	18.74951	4.784259
0.054928	47.52	3.92	28.85	18.75041	4.783268
0.054983	47.52	3.921	28.85	18.75131	4.782277
0.055037	47.53	3.922	28.86	18.75221	4.781288
0.055092	47.53	3.923	28.87	18.75311	4.780298
0.055147	47.54	3.924	28.87	18.75401	4.779309
0.055202	47.54	3.925	28.88	18.75491	4.778321
0.055256	47.55	3.926	28.89	18.75581	4.777333
0.055311	47.55	3.927	28.89	18.75671	4.776346
0.055366	47.55	3.928	28.9	18.75761	4.775359

0.055421	47.56	3.929	28.91	18.75851	4.774373
0.055475	47.56	3.93	28.91	18.75942	4.773389
0.05553	47.57	3.931	28.92	18.76032	4.772404
0.055585	47.57	3.932	28.93	18.76122	4.771419
0.055639	47.58	3.933	28.93	18.76212	4.770435
0.055694	47.58	3.934	28.94	18.76302	4.769451
0.055749	47.59	3.935	28.95	18.76393	4.76847
0.055804	47.59	3.936	28.95	18.76483	4.767487
0.055858	47.6	3.937	28.96	18.76573	4.766505
0.055913	47.6	3.938	28.97	18.76663	4.765523
0.055967	47.6	3.939	28.97	18.76754	4.764544
0.056022	47.61	3.94	28.98	18.76844	4.763563
0.056077	47.61	3.941	28.99	18.76935	4.762586
0.056131	47.62	3.942	28.99	18.77025	4.761606
0.056186	47.62	3.943	29	18.77115	4.760626
0.056241	47.63	3.944	29.01	18.77206	4.75965
0.056295	47.63	3.945	29.01	18.77296	4.758672
0.05635	47.64	3.946	29.02	18.77387	4.757696
0.056404	47.64	3.947	29.03	18.77477	4.756719
0.056459	47.65	3.948	29.03	18.77568	4.755745
0.056513	47.65	3.949	29.04	18.77658	4.754768
0.056568	47.66	3.95	29.05	18.77749	4.753795
0.056623	47.66	3.951	29.05	18.77839	4.75282
0.056677	47.66	3.952	29.06	18.7793	4.751847
0.056732	47.67	3.953	29.06	18.7802	4.750873
0.056786	47.67	3.954	29.07	18.78111	4.749901
0.056841	47.68	3.955	29.08	18.78202	4.74893
0.056895	47.68	3.956	29.08	18.78292	4.747958
0.05695	47.69	3.957	29.09	18.78383	4.746988
0.057004	47.69	3.958	29.1	18.78474	4.746018
0.057059	47.7	3.959	29.1	18.78564	4.745047
0.057113	47.7	3.96	29.11	18.78655	4.744078
0.057168	47.71	3.961	29.12	18.78746	4.74311
0.057222	47.71	3.962	29.12	18.78837	4.742143
0.057277	47.71	3.963	29.13	18.78927	4.741173
0.057331	47.72	3.964	29.14	18.79018	4.740207
0.057385	47.72	3.965	29.14	18.79109	4.739241
0.05744	47.73	3.966	29.15	18.792	4.738275
0.057494	47.73	3.967	29.16	18.79291	4.73731
0.057549	47.74	3.968	29.16	18.79382	4.736346
0.057603	47.74	3.969	29.17	18.79473	4.735382
0.057657	47.75	3.97	29.18	18.79563	4.734416
0.057712	47.75	3.971	29.18	18.79654	4.733453
0.057766	47.76	3.972	29.19	18.79745	4.73249
0.057821	47.76	3.973	29.2	18.79836	4.731528
0.057875	47.76	3.974	29.2	18.79927	4.730566
0.057929	47.77	3.975	29.21	18.80018	4.729605
0.057984	47.77	3.976	29.22	18.80109	4.728644
0.058038	47.78	3.977	29.22	18.802	4.727684
0.058092	47.78	3.978	29.23	18.80291	4.726724
0.058147	47.79	3.979	29.24	18.80383	4.725768
0.058201	47.79	3.98	29.24	18.80474	4.724809
0.058255	47.8	3.981	29.25	18.80565	4.723851
0.058309	47.8	3.982	29.26	18.80656	4.722893
0.058364	47.81	3.983	29.26	18.80747	4.721936
0.058418	47.81	3.984	29.27	18.80838	4.720979
0.058472	47.81	3.985	29.28	18.80929	4.720023
0.058526	47.82	3.986	29.28	18.81021	4.719069
0.058581	47.82	3.987	29.29	18.81112	4.718114
0.058635	47.83	3.988	29.3	18.81203	4.717159
0.058689	47.83	3.989	29.3	18.81294	4.716205
0.058743	47.84	3.99	29.31	18.81386	4.715253
0.058798	47.84	3.991	29.32	18.81477	4.7143
0.058852	47.85	3.992	29.32	18.81568	4.713347
0.058906	47.85	3.993	29.33	18.8166	4.712397
0.05896	47.86	3.994	29.34	18.81751	4.711445
0.059014	47.86	3.995	29.34	18.81843	4.710496
0.059069	47.86	3.996	29.35	18.81934	4.709545
0.059123	47.87	3.997	29.35	18.82025	4.708594
0.059177	47.87	3.998	29.36	18.82117	4.707646
0.059231	47.88	3.999	29.37	18.82208	4.706697
0.059285	47.88	4	29.37	18.823	4.70575
0.059339	47.89	4.001	29.38	18.82391	4.704801
0.059393	47.89	4.002	29.39	18.82483	4.703856
0.059448	47.9	4.003	29.39	18.82574	4.702908
0.059502	47.9	4.004	29.4	18.82666	4.701963
0.059556	47.9	4.005	29.41	18.82758	4.701019
0.05961	47.91	4.006	29.41	18.82849	4.700072
0.059664	47.91	4.007	29.42	18.82941	4.699129
0.059718	47.92	4.008	29.43	18.83032	4.698184
0.059772	47.92	4.009	29.43	18.83124	4.697241
0.059826	47.93	4.01	29.44	18.83216	4.696299
0.05988	47.93	4.011	29.45	18.83307	4.695355
0.059934	47.94	4.012	29.45	18.83399	4.694414
0.059988	47.94	4.013	29.46	18.83491	4.693474
0.060042	47.94	4.014	29.47	18.83583	4.692534
0.060096	47.95	4.015	29.47	18.83674	4.691592
0.06015	47.95	4.016	29.48	18.83766	4.690652
0.060204	47.96	4.017	29.49	18.83858	4.689714
0.060258	47.96	4.018	29.49	18.8395	4.688776
0.060312	47.97	4.019	29.5	18.84042	4.687838
0.060366	47.97	4.02	29.51	18.84134	4.6869
0.06042	47.98	4.021	29.51	18.84226	4.685964
0.060474	47.98	4.022	29.52	18.84317	4.685025
0.060528	47.98	4.023	29.53	18.84409	4.684089
0.060582	47.99	4.024	29.53	18.84501	4.683154
0.060636	47.99	4.025	29.54	18.84593	4.682219
0.06069	48	4.026	29.55	18.84685	4.681284
0.060744	48	4.027	29.55	18.84777	4.68035
0.060798	48.01	4.028	29.56	18.84869	4.679417
0.060852	48.01	4.029	29.57	18.84961	4.678483
0.060906	48.02	4.03	29.57	18.85053	4.677551
0.06096	48.02	4.031	29.58	18.85146	4.676621
0.061014	48.02	4.032	29.59	18.85238	4.675689
0.061067	48.03	4.033	29.59	18.8533	4.674758
0.061121	48.03	4.034	29.6	18.85422	4.673827
0.061175	48.04	4.035	29.61	18.85514	4.672897
0.061229	48.04	4.036	29.61	18.85606	4.671967
0.061283	48.05	4.037	29.62	18.85698	4.671038
0.061337	48.05	4.038	29.62	18.85791	4.670111
0.06139	48.06	4.039	29.63	18.85883	4.669183
0.061444	48.06	4.04	29.64	18.85975	4.668255
0.061498	48.06	4.041	29.64	18.86067	4.667327
0.061552	48.07	4.042	29.65	18.8616	4.666403
0.061606	48.07	4.043	29.66	18.86252	4.665476
0.06166	48.08	4.044	29.66	18.86344	4.66455
0.061713	48.08	4.045	29.67	18.86437	4.663627
0.061767	48.09	4.046	29.68	18.86529	4.662701
0.061821	48.09	4.047	29.68	18.86621	4.661777
0.061875	48.1	4.048	29.69	18.86714	4.660855
0.061928	48.1	4.049	29.7	18.86806	4.659931
0.061982	48.1	4.05	29.7	18.86899	4.65901
0.062036	48.11	4.051	29.71	18.86991	4.658087
0.06209	48.11	4.052	29.72	18.87084	4.657167
0.062143	48.12	4.053	29.72	18.87176	4.656245
0.062197	48.12	4.054	29.73	18.87269	4.655326
0.062251	48.13	4.055	29.74	18.87361	4.654404
0.062304	48.13	4.056	29.74	18.87454	4.653486
0.062358	48.13	4.057	29.75	18.87546	4.652566
0.062412	48.14	4.058	29.76	18.87639	4.651649
0.062465	48.14	4.059	29.76	18.87732	4.650732
0.062519	48.15	4.06	29.77	18.87824	4.649813
0.062573	48.15	4.061	29.78	18.87917	4.648897
0.062626	48.16	4.062	29.78	18.8801	4.647981
0.06268	48.16	4.063	29.79	18.88102	4.647064
0.062734	48.17	4.064	29.8	18.88195	4.646149
0.062787	48.17	4.065	29.8	18.88288	4.645235
0.062841	48.17	4.066	29.81	18.88381	4.644321
0.062895	48.18	4.067	29.82	18.88473	4.643405
0.062948	48.18	4.068	29.82	18.88566	4.642493
0.063002	48.19	4.069	29.83	18.88659	4.64158
0.063055	48.19	4.07	29.83	18.88752	4.640668
0.063109	48.2	4.071	29.84	18.88845	4.639757
0.063162	48.2	4.072	29.85	18.88937	4.638843
0.063216	48.2	4.073	29.85	18.8903	4.637933
0.06327	48.21	4.074	29.86	18.89123	4.637023
0.063323	48.21	4.075	29.87	18.89216	4.636113
0.063377	48.22	4.076	29.87	18.89309	4.635204
0.06343	48.22	4.077	29.88	18.89402	4.634295
0.063484	48.23	4.078	29.89	18.89495	4.633386
0.063537	48.23	4.079	29.89	18.89588	4.632479
0.063591	48.24	4.08	29.9	18.89681	4.631571
0.063644	48.24	4.081	29.91	18.89774	4.630664
0.063698	48.24	4.082	29.91	18.89867	4.629757
0.063751	48.25	4.083	29.92	18.8996	4.628851
0.063805	48.25	4.084	29.93	18.90053	4.627946
0.063858	48.26	4.085	29.93	18.90147	4.627043
0.063912	48.26	4.086	29.94	18.9024	4.626138
0.063965	48.27	4.087	29.95	18.90333	4.625234
0.064019	48.27	4.088	29.95	18.90426	4.62433
0.064072	48.27	4.089	29.96	18.90519	4.623426
0.064125	48.28	4.09	29.97	18.90612	4.622523
0.064179	48.28	4.091	29.97	18.90706	4.621623
0.064232	48.29	4.092	29.98	18.90799	4.620721
0.064286	48.29	4.093	29.99	18.90892	4.619819
0.064339	48.3	4.094	29.99	18.90985	4.618918
0.064392	48.3	4.095	30	18.91079	4.61802
0.064446	48.3	4.096	30.01	18.91172	4.617119
0.064499	48.31	4.097	30.01	18.91265	4.616219
0.064553	48.31	4.098	30.02	18.91359	4.615322
0.064606	48.32	4.099	30.03	18.91452	4.614423
0.064659	48.32	4.1	30.03	18.91546	4.613527
0.064713	48.33	4.101	30.04	18.91639	4.612629
0.064766	48.33	4.102	30.04	18.91733	4.611733
0.064819	48.33	4.103	30.05	18.91826	4.610836
0.064873	48.34	4.104	30.06	18.9192	4.609942
0.064926	48.34	4.105	30.06	18.92013	4.609045
0.064979	48.35	4.106	30.07	18.92107	4.608151
0.065033	48.35	4.107	30.08	18.922	4.607256
0.065086	48.36	4.108	30.08	18.92294	4.606363
0.065139	48.36	4.109	30.09	18.92387	4.605468
0.065192	48.36	4.11	30.1	18.92481	4.604577
0.065246	48.37	4.111	30.1	18.92574	4.603683
0.065299	48.37	4.112	30.11	18.92668	4.602792
0.065352	48.38	4.113	30.12	18.92762	4.601901
0.065405	48.38	4.114	30.12	18.92855	4.601009
0.065459	48.39	4.115	30.13	18.92949	4.600119
0.065512	48.39	4.116	30.14	18.93043	4.59923
0.065565	48.39	4.117	30.14	18.93137	4.598341
0.065618	48.4	4.118	30.15	18.9323	4.59745
0.065672	48.4	4.119	30.16	18.93324	4.596562
0.065725	48.41	4.12	30.16	18.93418	4.595675
0.065778	48.41	4.121	30.17	18.93512	4.594788
0.065831	48.42	4.122	30.18	18.93606	4.593901
0.065884	48.42	4.123	30.18	18.93699	4.593012
0.065938	48.42	4.124	30.19	18.93793	4.592127
0.065991	48.43	4.125	30.2	18.93887	4.591241
0.066044	48.43	4.126	30.2	18.93981	4.590356
0.066097	48.44	4.127	30.21	18.94075	4.589472
0.06615	48.44	4.128	30.22	18.94169	4.588588
0.066203	48.45	4.129	30.22	18.94263	4.587704
0.066256	48.45	4.13	30.23	18.94357	4.586821
0.06631	48.45	4.131	30.23	18.94451	4.585938
0.066363	48.46	4.132	30.24	18.94545	4.585056
0.066416	48.46	4.133	30.25	18.94639	4.584174
0.066469	48.47	4.134	30.25	18.94733	4.583292
0.066522	48.47	4.135	30.26	18.94827	4.582411
0.066575	48.48	4.136	30.27	18.94921	4.58153
0.066628	48.48	4.137	30.27	18.95015	4.58065
0.066681	48.48	4.138	30.28	18.9511	4.579773
0.066734	48.49	4.139	30.29	18.95204	4.578893
0.066787	48.49	4.14	30.29	18.95298	4.578014
0.06684	48.5	4.141	30.3	18.95392	4.577136
0.066893	48.5	4.142	30.31	18.95486	4.576258
0.066946	48.51	4.143	30.31	18.95581	4.575383
0.066999	48.51	4.144	30.32	18.95675	4.574505
0.067052	48.51	4.145	30.33	18.95769	4.573628
0.067105	48.52	4.146	30.33	18.95863	4.572752
0.067158	48.52	4.147	30.34	18.95958	4.571878
0.067211	48.53	4.148	30.35	18.96052	4.571003
0.067264	48.53	4.149	30.35	18.96147	4.57013
0.067317	48.53	4.15	30.36	18.96241	4.569255
0.06737	48.54	4.151	30.37	18.96335	4.568381
0.067423	48.54	4.152	30.37	18.9643	4.56751
0.067476	48.55	4.153	30.38	18.96524	4.566636
0.067529	48.55	4.154	30.39	18.96619	4.565766
0.067582	48.56	4.155	30.39	18.96713	4.564893
0.067635	48.56	4.156	30.4	18.96808	4.564023
0.067688	48.56	4.157	30.41	18.96902	4.563151
0.067741	48.57	4.158	30.41	18.96997	4.562282
0.067794	48.57	4.159	30.42	18.97091	4.561411
0.067847	48.58	4.16	30.42	18.97186	4.560543
0.0679	48.58	4.161	30.43	18.9728	4.559673
0.067953	48.59	4.162	30.44	18.97375	4.558806
0.068006	48.59	4.163	30.44	18.9747	4.557939
0.068058	48.59	4.164	30.45	18.97564	4.55707
0.068111	48.6	4.165	30.46	18.97659	4.556204
0.068164	48.6	4.166	30.46	18.97754	4.555338
0.068217	48.61	4.167	30.47	18.97848	4.554471
0.06827	48.61	4.168	30.48	18.97943	4.553606
0.068323	48.61	4.169	30.48	18.98038	4.552742
0.068376	48.62	4.17	30.49	18.98133	4.551878
0.068428	48.62	4.171	30.5	18.98227	4.551012
0.068481	48.63	4.172	30.5	18.98322	4.550149
0.068534	48.63	4.173	30.51	18.98417	4.549286
0.068587	48.64	4.174	30.52	18.98512	4.548424
0.06864	48.64	4.175	30.52	18.98607	4.547562
0.068692	48.64	4.176	30.53	18.98702	4.5467
0.068745	48.65	4.177	30.54	18.98796	4.545837
0.068798	48.65	4.178	30.54	18.98891	4.544976
0.068851	48.66	4.179	30.55	18.98986	4.544116
0.068903	48.66	4.18	30.56	18.99081	4.543256
0.068956	48.66	4.181	30.56	18.99176	4.542397
0.069009	48.67	4.182	30.57	18.99271	4.541538
0.069062	48.67	4.183	30.57	18.99366	4.540679
0.069114	48.68	4.184	30.58	18.99461	4.539821
0.069167	48.68	4.185	30.59	18.99556	4.538963
0.06922	48.69	4.186	30.59	18.99651	4.538106
0.069273	48.69	4.187	30.6	18.99747	4.537251
0.069325	48.69	4.188	30.61	18.99842	4.536394
0.069378	48.7	4.189	30.61	18.99937	4.535538
0.069431	48.7	4.19	30.62	19.00032	4.534683
0.069483	48.71	4.191	30.63	19.00127	4.533827
0.069536	48.71	4.192	30.63	19.00222	4.532972
0.069589	48.71	4.193	30.64	19.00318	4.53212
0.069641	48.72	4.194	30.65	19.00413	4.531266
0.069694	48.72	4.195	30.65	19.00508	4.530412
0.069747	48.73	4.196	30.66	19.00603	4.529559
0.069799	48.73	4.197	30.67	19.00699	4.528709
0.069852	48.74	4.198	30.67	19.00794	4.527856
0.069905	48.74	4.199	30.68	19.00889	4.527004
0.069957	48.74	4.2	30.69	19.00985	4.526155
0.07001	48.75	4.201	30.69	19.0108	4.525303
0.070062	48.75	4.202	30.7	19.01175	4.524453
0.070115	48.76	4.203	30.71	19.01271	4.523605
0.070168	48.76	4.204	30.71	19.01366	4.522755
0.07022	48.76	4.205	30.72	19.01462	4.521907
0.070273	48.77	4.206	30.73	19.01557	4.521058
0.070325	48.77	4.207	30.73	19.01653	4.520212
0.070378	48.78	4.208	30.74	19.01748	4.519363
0.07043	48.78	4.209	30.74	19.01844	4.518517
0.070483	48.78	4.21	30.75	19.01939	4.51767
0.070536	48.79	4.211	30.76	19.02035	4.516825
0.070588	48.79	4.212	30.76	19.0213	4.515978
0.070641	48.8	4.213	30.77	19.02226	4.515134
0.070693	48.8	4.214	30.78	19.02322	4.51429
0.070746	48.81	4.215	30.78	19.02417	4.513445
0.070798	48.81	4.216	30.79	19.02513	4.512602
0.070851	48.81	4.217	30.8	19.02609	4.51176
0.070903	48.82	4.218	30.8	19.02704	4.510915
0.070956	48.82	4.219	30.81	19.028	4.510073
0.071008	48.83	4.22	30.82	19.02896	4.509232
0.071061	48.83	4.221	30.82	19.02992	4.508391
0.071113	48.83	4.222	30.83	19.03087	4.507549
0.071165	48.84	4.223	30.84	19.03183	4.506709
0.071218	48.84	4.224	30.84	19.03279	4.505869
0.07127	48.85	4.225	30.85	19.03375	4.50503
0.071323	48.85	4.226	30.86	19.03471	4.504191
0.071375	48.85	4.227	30.86	19.03567	4.503352
0.071428	48.86	4.228	30.87	19.03662	4.502512
0.07148	48.86	4.229	30.88	19.03758	4.501674
0.071532	48.87	4.23	30.88	19.03854	4.500837
0.071585	48.87	4.231	30.89	19.0395	4.5
0.071637	48.87	4.232	30.89	19.04046	4.499164
0.07169	48.88	4.233	30.9	19.04142	4.498327
0.071742	48.88	4.234	30.91	19.04238	4.497492
0.071794	48.89	4.235	30.91	19.04334	4.496656
0.071847	48.89	4.236	30.92	19.0443	4.495822
0.071899	48.9	4.237	30.93	19.04526	4.494987
0.071951	48.9	4.238	30.93	19.04623	4.494155
0.072004	48.9	4.239	30.94	19.04719	4.493322
0.072056	48.91	4.24	30.95	19.04815	4.492488
0.072108	48.91	4.241	30.95	19.04911	4.491655
0.072161	48.92	4.242	30.96	19.05007	4.490823
0.072213	48.92	4.243	30.97	19.05103	4.489991
0.072265	48.92	4.244	30.97	19.052	4.489161
0.072318	48.93	4.245	30.98	19.05296	4.48833
0.07237	48.93	4.246	30.99	19.05392	4.487499
0.072422	48.94	4.247	30.99	19.05488	4.486668
0.072475	48.94	4.248	31	19.05585	4.48584
0.072527	48.94	4.249	31.01	19.05681	4.485011
0.072579	48.95	4.25	31.01	19.05777	4.484181
0.072631	48.95	4.251	31.02	19.05874	4.483355
0.072684	48.96	4.252	31.02	19.0597	4.482526
0.072736	48.96	4.253	31.03	19.06066	4.481698
0.072788	48.96	4.254	31.04	19.06163	4.480872
0.07284	48.97	4.255	31.04	19.06259	4.480045
0.072893	48.97	4.256	31.05	19.06356	4.47922
0.072945	48.98	4.257	31.06	19.06452	4.478393
0.072997	48.98	4.258	31.06	19.06549	4.477569
0.073049	48.98	4.259	31.07	19.06645	4.476743
0.073101	48.99	4.26	31.08	19.06742	4.47592
0.073154	48.99	4.261	31.08	19.06838	4.475095
0.073206	49	4.262	31.09	19.06935	4.474273
0.073258	49	4.263	31.1	19.07031	4.473448
0.07331	49	4.264	31.1	19.07128	4.472627
0.073362	49.01	4.265	31.11	19.07225	4.471805
0.073414	49.01	4.266	31.12	19.07321	4.470982
0.073467	49.02	4.267	31.12	19.07418	4.470162
0.073519	49.02	4.268	31.13	19.07515	4.469342
0.073571	49.02	4.269	31.14	19.07611	4.46852
0.073623	49.03	4.27	31.14	19.07708	4.4677
0.073675	49.03	4.271	31.15	19.07805	4.466881
0.073727	49.04	4.272	31.15	19.07901	4.46606
0.073779	49.04	4.273	31.16	19.07998	4.465242
0.073831	49.04	4.274	31.17	19.08095	4.464424
0.073884	49.05	4.275	31.17	19.08192	4.463607
0.073936	49.05	4.276	31.18	19.08289	4.46279
0.073988	49.06	4.277	31.19	19.08386	4.461973
0.07404	49.06	4.278	31.19	19.08482	4.461155
0.074092	49.06	4.279	31.2	19.08579	4.460339
0.074144	49.07	4.28	31.21	19.08676	4.459523
0.074196	49.07	4.281	31.21	19.08773	4.458708
0.074248	49.08	4.282	31.22	19.0887	4.457894
0.0743	49.08	4.283	31.23	19.08967	4.457079
0.074352	49.08	4.284	31.23	19.09064	4.456265
0.074404	49.09	4.285	31.24	19.09161	4.455452
0.074456	49.09	4.286	31.25	19.09258	4.454638
0.074508	49.1	4.287	31.25	19.09355	4.453826
0.07456	49.1	4.288	31.26	19.09452	4.453013
0.074612	49.1	4.289	31.27	19.09549	4.452201
0.074664	49.11	4.29	31.27	19.09647	4.451392
0.074716	49.11	4.291	31.28	19.09744	4.45058
0.074768	49.12	4.292	31.28	19.09841	4.449769
0.07482	49.12	4.293	31.29	19.09938	4.448959
0.074872	49.12	4.294	31.3	19.10035	4.448149
0.074924	49.13	4.295	31.3	19.10132	4.447339
0.074976	49.13	4.296	31.31	19.1023	4.446532
0.075028	49.14	4.297	31.32	19.10327	4.445723
0.07508	49.14	4.298	31.32	19.10424	4.444914
0.075132	49.14	4.299	31.33	19.10522	4.444108
0.075184	49.15	4.3	31.34	19.10619	4.4433
0.075236	49.15	4.301	31.34	19.10716	4.442492
0.075288	49.16	4.302	31.35	19.10814	4.441688
0.075339	49.16	4.303	31.36	19.10911	4.440881
0.075391	49.16	4.304	31.36	19.11008	4.440074
0.075443	49.17	4.305	31.37	19.11106	4.439271
0.075495	49.17	4.306	31.38	19.11203	4.438465
0.075547	49.18	4.307	31.38	19.11301	4.437662
0.075599	49.18	4.308	31.39	19.11398	4.436857
0.075651	49.18	4.309	31.4	19.11496	4.436055
0.075703	49.19	4.31	31.4	19.11593	4.435251
0.075755	49.19	4.311	31.41	19.11691	4.434449
0.075806	49.2	4.312	31.41	19.11788	4.433646
0.075858	49.2	4.313	31.42	19.11886	4.432845
0.07591	49.2	4.314	31.43	19.11983	4.432042
0.075962	49.21	4.315	31.43	19.12081	4.431242
0.076014	49.21	4.316	31.44	19.12179	4.430443
0.076065	49.21	4.317	31.45	19.12276	4.429641
0.076117	49.22	4.318	31.45	19.12374	4.428842
0.076169	49.22	4.319	31.46	19.12472	4.428044
0.076221	49.23	4.32	31.47	19.12569	4.427243
0.076273	49.23	4.321	31.47	19.12667	4.426445
0.076324	49.23	4.322	31.48	19.12765	4.425648
0.076376	49.24	4.323	31.49	19.12863	4.424851
0.076428	49.24	4.324	31.49	19.1296	4.424052
0.07648	49.25	4.325	31.5	19.13058	4.423255
0.076532	49.25	4.326	31.51	19.13156	4.42246
0.076583	49.25	4.327	31.51	19.13254	4.421664
0.076635	49.26	4.328	31.52	19.13352	4.420869
0.076687	49.26	4.329	31.53	19.1345	4.420074
0.076738	49.27	4.33	31.53	19.13548	4.419279
0.07679	49.27	4.331	31.54	19.13645	4.418483
0.076842	49.27	4.332	31.54	19.13743	4.417689
0.076894	49.28	4.333	31.55	19.13841	4.416896
0.076945	49.28	4.334	31.56	19.13939	4.416103
0.076997	49.29	4.335	31.56	19.14037	4.41531
0.077049	49.29	4.336	31.57	19.14135	4.414518
0.0771	49.29	4.337	31.58	19.14233	4.413726
0.077152	49.3	4.338	31.58	19.14331	4.412935
0.077204	49.3	4.339	31.59	19.1443	4.412146
0.077255	49.3	4.34	31.6	19.14528	4.411355
0.077307	49.31	4.341	31.6	19.14626	4.410564
0.077359	49.31	4.342	31.61	19.14724	4.409774
0.07741	49.32	4.343	31.62	19.14822	4.408985
0.077462	49.32	4.344	31.62	19.1492	4.408195
0.077514	49.32	4.345	31.63	19.15019	4.407409
0.077565	49.33	4.346	31.64	19.15117	4.40662
0.077617	49.33	4.347	31.64	19.15215	4.405832
0.077668	49.34	4.348	31.65	19.15313	4.405044
0.07772	49.34	4.349	31.65	19.15412	4.404258
0.077772	49.34	4.35	31.66	19.1551	4.403471
0.077823	49.35	4.351	31.67	19.15608	4.402684
0.077875	49.35	4.352	31.67	19.15707	4.4019
0.077926	49.36	4.353	31.68	19.15805	4.401114
0.077978	49.36	4.354	31.69	19.15903	4.400328
0.07803	49.36	4.355	31.69	19.16002	4.399545
0.078081	49.37	4.356	31.7	19.161	4.39876
0.078133	49.37	4.357	31.71	19.16199	4.397978
0.078184	49.37	4.358	31.71	19.16297	4.397194
0.078236	49.38	4.359	31.72	19.16395	4.39641
0.078287	49.38	4.36	31.73	19.16494	4.395628
0.078339	49.39	4.361	31.73	19.16593	4.394848
0.07839	49.39	4.362	31.74	19.16691	4.394065
0.078442	49.39	4.363	31.75	19.1679	4.393284
0.078493	49.4	4.364	31.75	19.16888	4.392502
0.078545	49.4	4.365	31.76	19.16987	4.391723
0.078596	49.41	4.366	31.76	19.17085	4.390941
0.078648	49.41	4.367	31.77	19.17184	4.390163
0.078699	49.41	4.368	31.78	19.17283	4.389384
0.078751	49.42	4.369	31.78	19.17381	4.388604
0.078802	49.42	4.37	31.79	19.1748	4.387826
0.078854	49.42	4.371	31.8	19.17579	4.387049
0.078905	49.43	4.372	31.8	19.17678	4.386272
0.078957	49.43	4.373	31.81	19.17776	4.385493
0.079008	49.44	4.374	31.82	19.17875	4.384717
0.079059	49.44	4.375	31.82	19.17974	4.383941
0.079111	49.44	4.376	31.83	19.18073	4.383165
0.079162	49.45	4.377	31.84	19.18172	4.38239
0.079214	49.45	4.378	31.84	19.1827	4.381613
0.079265	49.46	4.379	31.85	19.18369	4.380838
0.079317	49.46	4.38	31.86	19.18468	4.380064
0.079368	49.46	4.381	31.86	19.18567	4.37929
0.079419	49.47	4.382	31.87	19.18666	4.378517
0.079471	49.47	4.383	31.87	19.18765	4.377744
0.079522	49.47	4.384	31.88	19.18864	4.376971
0.079574	49.48	4.385	31.89	19.18963	4.376198
0.079625	49.48	4.386	31.89	19.19062	4.375426
0.079676	49.49	4.387	31.9	19.19161	4.374655
0.079728	49.49	4.388	31.91	19.1926	4.373883
0.079779	49.49	4.389	31.91	19.19359	4.373112
0.07983	49.5	4.39	31.92	19.19458	4.372342
0.079882	49.5	4.391	31.93	19.19557	4.371571
0.079933	49.5	4.392	31.93	19.19657	4.370804
0.079984	49.51	4.393	31.94	19.19756	4.370034
0.080036	49.51	4.394	31.95	19.19855	4.369265
0.080087	49.52	4.395	31.95	19.19954	4.368496
0.080138	49.52	4.396	31.96	19.20053	4.367727
0.080189	49.52	4.397	31.97	19.20153	4.366962
0.080241	49.53	4.398	31.97	19.20252	4.366194
0.080292	49.53	4.399	31.98	19.20351	4.365426
0.080343	49.54	4.4	31.98	19.2045	4.364659
0.080395	49.54	4.401	31.99	19.2055	4.363895
0.080446	49.54	4.402	32	19.20649	4.363128

0.080497	49.55	4.403	32	19.20748	4.362362
0.080548	49.55	4.404	32.01	19.20848	4.361599
0.0806	49.55	4.405	32.02	19.20947	4.360833
0.080651	49.56	4.406	32.02	19.21047	4.36007
0.080702	49.56	4.407	32.03	19.21146	4.359306
0.080753	49.57	4.408	32.04	19.21246	4.358544
0.080805	49.57	4.409	32.04	19.21345	4.35778
0.080856	49.57	4.41	32.05	19.21445	4.357018
0.080907	49.58	4.411	32.06	19.21544	4.356255
0.080958	49.58	4.412	32.06	19.21644	4.355494
0.081009	49.58	4.413	32.07	19.21743	4.354731
0.081061	49.59	4.414	32.08	19.21843	4.353971
0.081112	49.59	4.415	32.08	19.21942	4.35321
0.081163	49.6	4.416	32.09	19.22042	4.35245
0.081214	49.6	4.417	32.09	19.22142	4.351691
0.081265	49.6	4.418	32.1	19.22241	4.35093
0.081316	49.61	4.419	32.11	19.22341	4.350172
0.081368	49.61	4.42	32.11	19.22441	4.349414
0.081419	49.61	4.421	32.12	19.2254	4.348654
0.08147	49.62	4.422	32.13	19.2264	4.347897
0.081521	49.62	4.423	32.13	19.2274	4.34714
0.081572	49.63	4.424	32.14	19.2284	4.346383
0.081623	49.63	4.425	32.15	19.22939	4.345625
0.081674	49.63	4.426	32.15	19.23039	4.344869
0.081726	49.64	4.427	32.16	19.23139	4.344113
0.081777	49.64	4.428	32.17	19.23239	4.343358
0.081828	49.64	4.429	32.17	19.23339	4.342603
0.081879	49.65	4.43	32.18	19.23439	4.341849
0.08193	49.65	4.431	32.18	19.23539	4.341095
0.081981	49.66	4.432	32.19	19.23639	4.340341
0.082032	49.66	4.433	32.2	19.23739	4.339587
0.082083	49.66	4.434	32.2	19.23839	4.338834
0.082134	49.67	4.435	32.21	19.23939	4.338081
0.082185	49.67	4.436	32.22	19.24039	4.337329
0.082236	49.67	4.437	32.22	19.24139	4.336577
0.082287	49.68	4.438	32.23	19.24239	4.335825
0.082338	49.68	4.439	32.24	19.24339	4.335073
0.082389	49.69	4.44	32.24	19.24439	4.334322
0.08244	49.69	4.441	32.25	19.24539	4.333571
0.082491	49.69	4.442	32.26	19.24639	4.332821
0.082542	49.7	4.443	32.26	19.24739	4.332071
0.082593	49.7	4.444	32.27	19.24839	4.331321
0.082644	49.7	4.445	32.28	19.2494	4.330574
0.082695	49.71	4.446	32.28	19.2504	4.329825
0.082746	49.71	4.447	32.29	19.2514	4.329076
0.082797	49.71	4.448	32.29	19.2524	4.328327
0.082848	49.72	4.449	32.3	19.25341	4.327581
0.082899	49.72	4.45	32.31	19.25441	4.326834
0.08295	49.73	4.451	32.31	19.25541	4.326086
0.083001	49.73	4.452	32.32	19.25642	4.325341
0.083052	49.73	4.453	32.33	19.25742	4.324595
0.083103	49.74	4.454	32.33	19.25842	4.323848
0.083154	49.74	4.455	32.34	19.25943	4.323104
0.083205	49.74	4.456	32.35	19.26043	4.322359
0.083256	49.75	4.457	32.35	19.26144	4.321615
0.083307	49.75	4.458	32.36	19.26244	4.32087
0.083358	49.76	4.459	32.37	19.26345	4.320128
0.083409	49.76	4.46	32.37	19.26445	4.319383
0.08346	49.76	4.461	32.38	19.26546	4.318642
0.083511	49.77	4.462	32.38	19.26646	4.317898
0.083561	49.77	4.463	32.39	19.26747	4.317157
0.083612	49.77	4.464	32.4	19.26847	4.316414
0.083663	49.78	4.465	32.4	19.26948	4.315673
0.083714	49.78	4.466	32.41	19.27048	4.314931
0.083765	49.79	4.467	32.42	19.27149	4.314191
0.083816	49.79	4.468	32.42	19.2725	4.313451
0.083867	49.79	4.469	32.43	19.2735	4.31271
0.083917	49.8	4.47	32.44	19.27451	4.311971
0.083968	49.8	4.471	32.44	19.27552	4.311232
0.084019	49.8	4.472	32.45	19.27653	4.310494
0.08407	49.81	4.473	32.46	19.27753	4.309754
0.084121	49.81	4.474	32.46	19.27854	4.309017
0.084172	49.81	4.475	32.47	19.27955	4.308279
0.084222	49.82	4.476	32.47	19.28056	4.307542
0.084273	49.82	4.477	32.48	19.28157	4.306806
0.084324	49.83	4.478	32.49	19.28257	4.306067
0.084375	49.83	4.479	32.49	19.28358	4.305332
0.084426	49.83	4.48	32.5	19.28459	4.304596
0.084476	49.84	4.481	32.51	19.2856	4.303861
0.084527	49.84	4.482	32.51	19.28661	4.303126
0.084578	49.84	4.483	32.52	19.28762	4.302391
0.084629	49.85	4.484	32.53	19.28863	4.301657
0.084679	49.85	4.485	32.53	19.28964	4.300923
0.08473	49.85	4.486	32.54	19.29065	4.300189
0.084781	49.86	4.487	32.55	19.29166	4.299456
0.084832	49.86	4.488	32.55	19.29267	4.298723
0.084882	49.87	4.489	32.56	19.29368	4.297991
0.084933	49.87	4.49	32.56	19.29469	4.297258
0.084984	49.87	4.491	32.57	19.29571	4.296529
0.085035	49.88	4.492	32.58	19.29672	4.295797
0.085085	49.88	4.493	32.58	19.29773	4.295066
0.085136	49.88	4.494	32.59	19.29874	4.294335
0.085187	49.89	4.495	32.6	19.29975	4.293604
0.085237	49.89	4.496	32.6	19.30076	4.292874
0.085288	49.89	4.497	32.61	19.30178	4.292146
0.085339	49.9	4.498	32.62	19.30279	4.291416
0.085389	49.9	4.499	32.62	19.3038	4.290687
0.08544	49.91	4.5	32.63	19.30482	4.28996
0.085491	49.91	4.501	32.64	19.30583	4.289231
0.085541	49.91	4.502	32.64	19.30684	4.288503
0.085592	49.92	4.503	32.65	19.30786	4.287777
0.085643	49.92	4.504	32.66	19.30887	4.287049
0.085693	49.92	4.505	32.66	19.30988	4.286322
0.085744	49.93	4.506	32.67	19.3109	4.285597
0.085795	49.93	4.507	32.67	19.31191	4.28487
0.085845	49.93	4.508	32.68	19.31293	4.284146
0.085896	49.94	4.509	32.69	19.31394	4.28342
0.085947	49.94	4.51	32.69	19.31496	4.282696
0.085997	49.95	4.511	32.7	19.31597	4.281971
0.086048	49.95	4.512	32.71	19.31699	4.281248
0.086098	49.95	4.513	32.71	19.318	4.280523
0.086149	49.96	4.514	32.72	19.31902	4.279801
0.086199	49.96	4.515	32.73	19.32004	4.279079
0.08625	49.96	4.516	32.73	19.32105	4.278355
0.086301	49.97	4.517	32.74	19.32207	4.277633
0.086351	49.97	4.518	32.74	19.32309	4.276912
0.086402	49.97	4.519	32.75	19.3241	4.276189
0.086452	49.98	4.52	32.76	19.32512	4.275469
0.086503	49.98	4.521	32.76	19.32614	4.274749
0.086553	49.98	4.522	32.77	19.32715	4.274027
0.086604	49.99	4.523	32.78	19.32817	4.273308
0.086654	49.99	4.524	32.78	19.32919	4.272588
0.086705	50	4.525	32.79	19.33021	4.27187
0.086756	50	4.526	32.8	19.33123	4.271151
0.086806	50	4.527	32.8	19.33224	4.270431
0.086857	50.01	4.528	32.81	19.33326	4.269713
0.086907	50.01	4.529	32.82	19.33428	4.268995
0.086958	50.01	4.53	32.82	19.3353	4.268278
0.087008	50.02	4.531	32.83	19.33632	4.267561
0.087058	50.02	4.532	32.83	19.33734	4.266845
0.087109	50.02	4.533	32.84	19.33836	4.266128
0.087159	50.03	4.534	32.85	19.33938	4.265412
0.08721	50.03	4.535	32.85	19.3404	4.264697
0.08726	50.03	4.536	32.86	19.34142	4.263981
0.087311	50.04	4.537	32.87	19.34244	4.263266
0.087361	50.04	4.538	32.87	19.34346	4.262552
0.087412	50.05	4.539	32.88	19.34448	4.261837
0.087462	50.05	4.54	32.89	19.3455	4.261123
0.087513	50.05	4.541	32.89	19.34652	4.26041
0.087563	50.06	4.542	32.9	19.34755	4.259698
0.087613	50.06	4.543	32.91	19.34857	4.258985
0.087664	50.06	4.544	32.91	19.34959	4.258272
0.087714	50.07	4.545	32.92	19.35061	4.25756
0.087765	50.07	4.546	32.92	19.35163	4.256848
0.087815	50.07	4.547	32.93	19.35266	4.256138
0.087865	50.08	4.548	32.94	19.35368	4.255427
0.087916	50.08	4.549	32.94	19.3547	4.254715
0.087966	50.08	4.55	32.95	19.35573	4.254007
0.088017	50.09	4.551	32.96	19.35675	4.253296
0.088067	50.09	4.552	32.96	19.35777	4.252586
0.088117	50.1	4.553	32.97	19.3588	4.251878
0.088168	50.1	4.554	32.98	19.35982	4.251168
0.088218	50.1	4.555	32.98	19.36084	4.250459
0.088268	50.11	4.556	32.99	19.36187	4.249752
0.088319	50.11	4.557	33	19.36289	4.249043
0.088369	50.11	4.558	33	19.36392	4.248337
0.088419	50.12	4.559	33.01	19.36494	4.247629
0.08847	50.12	4.56	33.01	19.36597	4.246923
0.08852	50.12	4.561	33.02	19.36699	4.246216
0.08857	50.13	4.562	33.03	19.36802	4.245511
0.088621	50.13	4.563	33.03	19.36905	4.244806
0.088671	50.13	4.564	33.04	19.37007	4.244099
0.088721	50.14	4.565	33.05	19.3711	4.243395
0.088772	50.14	4.566	33.05	19.37212	4.242689
0.088822	50.14	4.567	33.06	19.37315	4.241986
0.088872	50.15	4.568	33.07	19.37418	4.241283
0.088922	50.15	4.569	33.07	19.3752	4.240578
0.088973	50.16	4.57	33.08	19.37623	4.239875
0.089023	50.16	4.571	33.08	19.37726	4.239173
0.089073	50.16	4.572	33.09	19.37829	4.238471
0.089123	50.17	4.573	33.1	19.37931	4.237767
0.089174	50.17	4.574	33.1	19.38034	4.237066
0.089224	50.17	4.575	33.11	19.38137	4.236365
0.089274	50.18	4.576	33.12	19.3824	4.235664
0.089324	50.18	4.577	33.12	19.38343	4.234964
0.089375	50.18	4.578	33.13	19.38446	4.234264
0.089425	50.19	4.579	33.14	19.38549	4.233564
0.089475	50.19	4.58	33.14	19.38652	4.232865
0.089525	50.19	4.581	33.15	19.38754	4.232163
0.089575	50.2	4.582	33.16	19.38857	4.231464
0.089626	50.2	4.583	33.16	19.3896	4.230766
0.089676	50.2	4.584	33.17	19.39063	4.230068
0.089726	50.21	4.585	33.17	19.39166	4.22937
0.089776	50.21	4.586	33.18	19.3927	4.228674
0.089826	50.21	4.587	33.19	19.39373	4.227977
0.089876	50.22	4.588	33.19	19.39476	4.22728
0.089927	50.22	4.589	33.2	19.39579	4.226583
0.089977	50.23	4.59	33.21	19.39682	4.225887
0.090027	50.23	4.591	33.21	19.39785	4.225191
0.090077	50.23	4.592	33.22	19.39888	4.224495
0.090127	50.24	4.593	33.23	19.39991	4.223799
0.090177	50.24	4.594	33.23	19.40095	4.223106
0.090227	50.24	4.595	33.24	19.40198	4.222411
0.090278	50.25	4.596	33.24	19.40301	4.221717
0.090328	50.25	4.597	33.25	19.40404	4.221022
0.090378	50.25	4.598	33.26	19.40508	4.220331
0.090428	50.26	4.599	33.26	19.40611	4.219637
0.090478	50.26	4.6	33.27	19.40714	4.218943
0.090528	50.26	4.601	33.28	19.40818	4.218253
0.090578	50.27	4.602	33.28	19.40921	4.21756
0.090628	50.27	4.603	33.29	19.41024	4.216867
0.090678	50.27	4.604	33.3	19.41128	4.216177
0.090728	50.28	4.605	33.3	19.41231	4.215485
0.090779	50.28	4.606	33.31	19.41335	4.214796
0.090829	50.28	4.607	33.32	19.41438	4.214105
0.090879	50.29	4.608	33.32	19.41542	4.213416
0.090929	50.29	4.609	33.33	19.41645	4.212725
0.090979	50.29	4.61	33.33	19.41749	4.212037
0.091029	50.3	4.611	33.34	19.41852	4.211347
0.091079	50.3	4.612	33.35	19.41956	4.210659
0.091129	50.3	4.613	33.35	19.4206	4.209972
0.091179	50.31	4.614	33.36	19.42163	4.209283
0.091229	50.31	4.615	33.37	19.42267	4.208596
0.091279	50.32	4.616	33.37	19.4237	4.207907
0.091329	50.32	4.617	33.38	19.42474	4.207221
0.091379	50.32	4.618	33.39	19.42578	4.206535
0.091429	50.33	4.619	33.39	19.42682	4.20585
0.091479	50.33	4.62	33.4	19.42785	4.205162
0.091529	50.33	4.621	33.4	19.42889	4.204477
0.091579	50.34	4.622	33.41	19.42993	4.203793
0.091629	50.34	4.623	33.42	19.43097	4.203108
0.091679	50.34	4.624	33.42	19.432	4.202422
0.091729	50.35	4.625	33.43	19.43304	4.201738
0.091779	50.35	4.626	33.44	19.43408	4.201055
0.091829	50.35	4.627	33.44	19.43512	4.200372
0.091879	50.36	4.628	33.45	19.43616	4.199689
0.091929	50.36	4.629	33.46	19.4372	4.199006
0.091978	50.36	4.63	33.46	19.43824	4.198324
0.092028	50.37	4.631	33.47	19.43928	4.197642
0.092078	50.37	4.632	33.47	19.44032	4.19696
0.092128	50.37	4.633	33.48	19.44136	4.196279
0.092178	50.38	4.634	33.49	19.4424	4.195598
0.092228	50.38	4.635	33.49	19.44344	4.194917
0.092278	50.38	4.636	33.5	19.44448	4.194236
0.092328	50.39	4.637	33.51	19.44552	4.193556
0.092378	50.39	4.638	33.51	19.44656	4.192876
0.092428	50.39	4.639	33.52	19.4476	4.192197
0.092478	50.4	4.64	33.53	19.44864	4.191517
0.092527	50.4	4.641	33.53	19.44969	4.19084
0.092577	50.4	4.642	33.54	19.45073	4.190162
0.092627	50.41	4.643	33.54	19.45177	4.189483
0.092677	50.41	4.644	33.55	19.45281	4.188805
0.092727	50.41	4.645	33.56	19.45385	4.188127
0.092777	50.42	4.646	33.56	19.4549	4.187452
0.092827	50.42	4.647	33.57	19.45594	4.186774
0.092876	50.42	4.648	33.58	19.45698	4.186097
0.092926	50.43	4.649	33.58	19.45803	4.185423
0.092976	50.43	4.65	33.59	19.45907	4.184746
0.093026	50.43	4.651	33.6	19.46011	4.18407
0.093076	50.44	4.652	33.6	19.46116	4.183396
0.093125	50.44	4.653	33.61	19.4622	4.182721
0.093175	50.44	4.654	33.62	19.46325	4.182048
0.093225	50.45	4.655	33.62	19.46429	4.181373
0.093275	50.45	4.656	33.63	19.46534	4.1807
0.093325	50.45	4.657	33.63	19.46638	4.180026
0.093374	50.46	4.658	33.64	19.46743	4.179354
0.093424	50.46	4.659	33.65	19.46847	4.17868
0.093474	50.46	4.66	33.65	19.46952	4.178009
0.093524	50.47	4.661	33.66	19.47056	4.177335
0.093574	50.47	4.662	33.67	19.47161	4.176665
0.093623	50.47	4.663	33.67	19.47265	4.175992
0.093673	50.48	4.664	33.68	19.4737	4.175322
0.093723	50.48	4.665	33.69	19.47475	4.174652
0.093773	50.49	4.666	33.69	19.47579	4.17398
0.093822	50.49	4.667	33.7	19.47684	4.17331
0.093872	50.49	4.668	33.7	19.47789	4.172641
0.093922	50.5	4.669	33.71	19.47894	4.171973
0.093971	50.5	4.67	33.72	19.47998	4.171302
0.094021	50.5	4.671	33.72	19.48103	4.170634
0.094071	50.51	4.672	33.73	19.48208	4.169966
0.094121	50.51	4.673	33.74	19.48313	4.169298
0.09417	50.51	4.674	33.74	19.48418	4.168631
0.09422	50.52	4.675	33.75	19.48523	4.167964
0.09427	50.52	4.676	33.76	19.48627	4.167295
0.094319	50.52	4.677	33.76	19.48732	4.166628
0.094369	50.53	4.678	33.77	19.48837	4.165962
0.094419	50.53	4.679	33.77	19.48942	4.165296
0.094468	50.53	4.68	33.78	19.49047	4.16463
0.094518	50.54	4.681	33.79	19.49152	4.163965
0.094568	50.54	4.682	33.79	19.49257	4.1633
0.094617	50.54	4.683	33.8	19.49362	4.162635
0.094667	50.55	4.684	33.81	19.49467	4.161971
0.094717	50.55	4.685	33.81	19.49572	4.161306
0.094766	50.55	4.686	33.82	19.49677	4.160642
0.094816	50.56	4.687	33.83	19.49783	4.159981
0.094866	50.56	4.688	33.83	19.49888	4.159317
0.094915	50.56	4.689	33.84	19.49993	4.158654
0.094965	50.57	4.69	33.84	19.50098	4.157991
0.095014	50.57	4.691	33.85	19.50203	4.157329
0.095064	50.57	4.692	33.86	19.50308	4.156667
0.095114	50.58	4.693	33.86	19.50414	4.156007
0.095163	50.58	4.694	33.87	19.50519	4.155345
0.095213	50.58	4.695	33.88	19.50624	4.154684
0.095262	50.59	4.696	33.88	19.5073	4.154025
0.095312	50.59	4.697	33.89	19.50835	4.153364
0.095361	50.59	4.698	33.9	19.5094	4.152703
0.095411	50.6	4.699	33.9	19.51046	4.152045
0.095461	50.6	4.7	33.91	19.51151	4.151385
0.09551	50.6	4.701	33.91	19.51256	4.150725
0.09556	50.61	4.702	33.92	19.51362	4.150068
0.095609	50.61	4.703	33.93	19.51467	4.149409
0.095659	50.61	4.704	33.93	19.51573	4.148752
0.095708	50.61	4.705	33.94	19.51678	4.148094
0.095758	50.62	4.706	33.95	19.51784	4.147437
0.095807	50.62	4.707	33.95	19.51889	4.146779
0.095857	50.62	4.708	33.96	19.51995	4.146124
0.095906	50.63	4.709	33.97	19.521	4.145466
0.095956	50.63	4.71	33.97	19.52206	4.144811
0.096005	50.63	4.711	33.98	19.52311	4.144154
0.096055	50.64	4.712	33.98	19.52417	4.1435
0.096104	50.64	4.713	33.99	19.52523	4.142845
0.096154	50.64	4.714	34	19.52628	4.142189
0.096203	50.65	4.715	34	19.52734	4.141536
0.096253	50.65	4.716	34.01	19.5284	4.140882
0.096302	50.65	4.717	34.02	19.52946	4.140229
0.096352	50.66	4.718	34.02	19.53051	4.139574
0.096401	50.66	4.719	34.03	19.53157	4.138921
0.096451	50.66	4.72	34.03	19.53263	4.138269
0.0965	50.67	4.721	34.04	19.53369	4.137617
0.09655	50.67	4.722	34.05	19.53475	4.136965
0.096599	50.67	4.723	34.05	19.5358	4.136312
0.096649	50.68	4.724	34.06	19.53686	4.13566
0.096698	50.68	4.725	34.07	19.53792	4.13501
0.096747	50.68	4.726	34.07	19.53898	4.134359
0.096797	50.69	4.727	34.08	19.54004	4.133708
0.096846	50.69	4.728	34.09	19.5411	4.133058
0.096896	50.69	4.729	34.09	19.54216	4.132409
0.096945	50.7	4.73	34.1	19.54322	4.131759
0.096995	50.7	4.731	34.1	19.54428	4.13111
0.097044	50.7	4.732	34.11	19.54534	4.130461
0.097093	50.71	4.733	34.12	19.5464	4.129812
0.097143	50.71	4.734	34.12	19.54746	4.129163
0.097192	50.71	4.735	34.13	19.54852	4.128515
0.097241	50.72	4.736	34.14	19.54958	4.127867
0.097291	50.72	4.737	34.14	19.55065	4.127222
0.09734	50.72	4.738	34.15	19.55171	4.126575
0.09739	50.73	4.739	34.16	19.55277	4.125927
0.097439	50.73	4.74	34.16	19.55383	4.125281
0.097488	50.73	4.741	34.17	19.55489	4.124634
0.097538	50.74	4.742	34.17	19.55596	4.12399
0.097587	50.74	4.743	34.18	19.55702	4.123344
0.097636	50.74	4.744	34.19	19.55808	4.122698
0.097686	50.75	4.745	34.19	19.55914	4.122053
0.097735	50.75	4.746	34.2	19.56021	4.12141
0.097784	50.75	4.747	34.21	19.56127	4.120765
0.097834	50.76	4.748	34.21	19.56233	4.12012
0.097883	50.76	4.749	34.22	19.5634	4.119478
0.097932	50.76	4.75	34.23	19.56446	4.118834
0.097982	50.77	4.751	34.23	19.56553	4.118192
0.098031	50.77	4.752	34.24	19.56659	4.117548
0.09808	50.77	4.753	34.24	19.56766	4.116907
0.098129	50.77	4.754	34.25	19.56872	4.116264
0.098179	50.78	4.755	34.26	19.56979	4.115624
0.098228	50.78	4.756	34.26	19.57085	4.114981
0.098277	50.78	4.757	34.27	19.57192	4.114341
0.098327	50.79	4.758	34.28	19.57298	4.113699
0.098376	50.79	4.759	34.28	19.57405	4.113059
0.098425	50.79	4.76	34.29	19.57512	4.11242
0.098474	50.8	4.761	34.3	19.57618	4.111779
0.098524	50.8	4.762	34.3	19.57725	4.11114
0.098573	50.8	4.763	34.31	19.57832	4.110502
0.098622	50.81	4.764	34.31	19.57938	4.109861
0.098671	50.81	4.765	34.32	19.58045	4.109224
0.098721	50.81	4.766	34.33	19.58152	4.108586
0.09877	50.82	4.767	34.33	19.58259	4.107948
0.098819	50.82	4.768	34.34	19.58365	4.107309
0.098868	50.82	4.769	34.35	19.58472	4.106672
0.098917	50.83	4.77	34.35	19.58579	4.106036
0.098967	50.83	4.771	34.36	19.58686	4.105399
0.099016	50.83	4.772	34.36	19.58793	4.104763
0.099065	50.84	4.773	34.37	19.589	4.104127
0.099114	50.84	4.774	34.38	19.59006	4.10349
0.099163	50.84	4.775	34.38	19.59113	4.102854
0.099213	50.85	4.776	34.39	19.5922	4.102219
0.099262	50.85	4.777	34.4	19.59327	4.101585
0.099311	50.85	4.778	34.4	19.59434	4.10095
0.09936	50.85	4.779	34.41	19.59541	4.100316
0.099409	50.86	4.78	34.42	19.59648	4.099682
0.099458	50.86	4.781	34.42	19.59755	4.099048
0.099508	50.86	4.782	34.43	19.59862	4.098415
0.099557	50.87	4.783	34.43	19.5997	4.097784
0.099606	50.87	4.784	34.44	19.60077	4.097151
0.099655	50.87	4.785	34.45	19.60184	4.096518
0.099704	50.88	4.786	34.45	19.60291	4.095886
0.099753	50.88	4.787	34.46	19.60398	4.095254
0.099802	50.88	4.788	34.47	19.60505	4.094622
0.099851	50.89	4.789	34.47	19.60613	4.093992
0.099901	50.89	4.79	34.48	19.6072	4.093361
0.09995	50.89	4.791	34.48	19.60827	4.09273
0.099999	50.9	4.792	34.49	19.60934	4.092099
0.10005	50.9	4.793	34.5	19.61042	4.091471
0.1001	50.9	4.794	34.5	19.61149	4.090841
0.10015	50.91	4.795	34.51	19.61256	4.090211
0.1002	50.91	4.796	34.52	19.61364	4.089583
0.10024	50.91	4.797	34.52	19.61471	4.088954
0.10029	50.92	4.798	34.53	19.61579	4.088326
0.10034	50.92	4.799	34.54	19.61686	4.087697
0.10039	50.92	4.8	34.54	19.61793	4.087069
0.10044	50.92	4.801	34.55	19.61901	4.086442
0.10049	50.93	4.802	34.55	19.62008	4.085814
0.10054	50.93	4.803	34.56	19.62116	4.085188
0.10059	50.93	4.804	34.57	19.62223	4.084561
0.10064	50.94	4.805	34.57	19.62331	4.083935
0.10069	50.94	4.806	34.58	19.62439	4.08331
0.10073	50.94	4.807	34.59	19.62546	4.082684
0.10078	50.95	4.808	34.59	19.62654	4.082059
0.10083	50.95	4.809	34.6	19.62761	4.081433
0.10088	50.95	4.81	34.6	19.62869	4.080809
0.10093	50.96	4.811	34.61	19.62977	4.080185
0.10098	50.96	4.812	34.62	19.63085	4.079562
0.10103	50.96	4.813	34.62	19.63192	4.078936
0.10108	50.97	4.814	34.63	19.633	4.078313
0.10113	50.97	4.815	34.64	19.63408	4.077691
0.10118	50.97	4.816	34.64	19.63516	4.077068
0.10122	50.97	4.817	34.65	19.63623	4.076444
0.10127	50.98	4.818	34.66	19.63731	4.075822
0.10132	50.98	4.819	34.66	19.63839	4.0752
0.10137	50.98	4.82	34.67	19.63947	4.074579
0.10142	50.99	4.821	34.67	19.64055	4.073958
0.10147	50.99	4.822	34.68	19.64163	4.073337
0.10152	50.99	4.823	34.69	19.64271	4.072716
0.10157	51	4.824	34.69	19.64379	4.072096
0.10162	51	4.825	34.7	19.64487	4.071476
0.10167	51	4.826	34.71	19.64595	4.070856
0.10171	51.01	4.827	34.71	19.64703	4.070236
0.10176	51.01	4.828	34.72	19.64811	4.069617
0.10181	51.01	4.829	34.72	19.64919	4.068998
0.10186	51.02	4.83	34.73	19.65027	4.068379
0.10191	51.02	4.831	34.74	19.65135	4.06776
0.10196	51.02	4.832	34.74	19.65243	4.067142
0.10201	51.02	4.833	34.75	19.65351	4.066524
0.10206	51.03	4.834	34.76	19.65459	4.065906
0.10211	51.03	4.835	34.76	19.65567	4.065289
0.10215	51.03	4.836	34.77	19.65676	4.064673
0.1022	51.04	4.837	34.78	19.65784	4.064056
0.10225	51.04	4.838	34.78	19.65892	4.063439
0.1023	51.04	4.839	34.79	19.66	4.062823
0.10235	51.05	4.84	34.79	19.66109	4.062209
0.1024	51.05	4.841	34.8	19.66217	4.061593
0.10245	51.05	4.842	34.81	19.66325	4.060977
0.1025	51.06	4.843	34.81	19.66434	4.060363
0.10255	51.06	4.844	34.82	19.66542	4.059748
0.10259	51.06	4.845	34.83	19.6665	4.059133
0.10264	51.06	4.846	34.83	19.66759	4.05852
0.10269	51.07	4.847	34.84	19.66867	4.057906
0.10274	51.07	4.848	34.84	19.66976	4.057294
0.10279	51.07	4.849	34.85	19.67084	4.05668
0.10284	51.08	4.85	34.86	19.67193	4.056068
0.10289	51.08	4.851	34.86	19.67301	4.055455
0.10294	51.08	4.852	34.87	19.6741	4.054843
0.10298	51.09	4.853	34.88	19.67518	4.05423
0.10303	51.09	4.854	34.88	19.67627	4.05362
0.10308	51.09	4.855	34.89	19.67735	4.053007
0.10313	51.1	4.856	34.9	19.67844	4.052397
0.10318	51.1	4.857	34.9	19.67953	4.051787
0.10323	51.1	4.858	34.91	19.68061	4.051175
0.10328	51.1	4.859	34.91	19.6817	4.050566
0.10333	51.11	4.86	34.92	19.68279	4.049957
0.10338	51.11	4.861	34.93	19.68387	4.049346
0.10342	51.11	4.862	34.93	19.68496	4.048737
0.10347	51.12	4.863	34.94	19.68605	4.048129
0.10352	51.12	4.864	34.95	19.68714	4.047521
0.10357	51.12	4.865	34.95	19.68823	4.046913
0.10362	51.13	4.866	34.96	19.68931	4.046303
0.10367	51.13	4.867	34.96	19.6904	4.045696
0.10372	51.13	4.868	34.97	19.69149	4.045088
0.10377	51.14	4.869	34.98	19.69258	4.044481
0.10381	51.14	4.87	34.98	19.69367	4.043875
0.10386	51.14	4.871	34.99	19.69476	4.043268
0.10391	51.14	4.872	35	19.69585	4.042662
0.10396	51.15	4.873	35	19.69694	4.042056
0.10401	51.15	4.874	35.01	19.69803	4.041451
0.10406	51.15	4.875	35.01	19.69912	4.040845
0.10411	51.16	4.876	35.02	19.70021	4.04024

0.16985	54.17	6.299	41.64	21.40764	3.398578
0.16989	54.17	6.3	41.64	21.40895	3.398246
0.16994	54.17	6.301	41.64	21.41026	3.397915
0.16998	54.17	6.302	41.65	21.41158	3.397585
0.17003	54.17	6.303	41.65	21.41289	3.397254
0.17007	54.17	6.304	41.66	21.4142	3.396923
0.17012	54.17	6.305	41.66	21.41552	3.396593
0.17016	54.18	6.306	41.67	21.41683	3.396262
0.17021	54.18	6.307	41.67	21.41814	3.395932
0.17025	54.18	6.308	41.67	21.41946	3.395602
0.17029	54.18	6.309	41.68	21.42077	3.395272
0.17034	54.18	6.31	41.68	21.42209	3.394943
0.17038	54.18	6.311	41.69	21.4234	3.394613
0.17043	54.18	6.312	41.69	21.42472	3.394284
0.17047	54.18	6.313	41.7	21.42603	3.393954
0.17052	54.19	6.314	41.7	21.42735	3.393625
0.17056	54.19	6.315	41.7	21.42866	3.393295
0.17061	54.19	6.316	41.71	21.42998	3.392967
0.17065	54.19	6.317	41.71	21.43129	3.392637
0.17069	54.19	6.318	41.72	21.43261	3.392309
0.17074	54.19	6.319	41.72	21.43392	3.39198
0.17078	54.19	6.32	41.73	21.43524	3.391652
0.17083	54.19	6.321	41.73	21.43656	3.391324
0.17087	54.2	6.322	41.73	21.43787	3.390995
0.17092	54.2	6.323	41.74	21.43919	3.390667
0.17096	54.2	6.324	41.74	21.44051	3.39034
0.171	54.2	6.325	41.75	21.44182	3.390011
0.17105	54.2	6.326	41.75	21.44314	3.389684
0.17109	54.2	6.327	41.76	21.44446	3.389357
0.17114	54.2	6.328	41.76	21.44578	3.38903
0.17118	54.2	6.329	41.76	21.44709	3.388701
0.17123	54.2	6.33	41.77	21.44841	3.388374
0.17127	54.21	6.331	41.77	21.44973	3.388048
0.17132	54.21	6.332	41.78	21.45105	3.387721
0.17136	54.21	6.333	41.78	21.45237	3.387395
0.1714	54.21	6.334	41.79	21.45368	3.387067
0.17145	54.21	6.335	41.79	21.455	3.38674
0.17149	54.21	6.336	41.8	21.45632	3.386414
0.17154	54.21	6.337	41.8	21.45764	3.386088
0.17158	54.21	6.338	41.8	21.45896	3.385762
0.17163	54.22	6.339	41.81	21.46028	3.385436
0.17167	54.22	6.34	41.81	21.4616	3.38511
0.17172	54.22	6.341	41.82	21.46292	3.384785
0.17176	54.22	6.342	41.82	21.46424	3.384459
0.1718	54.22	6.343	41.83	21.46556	3.384134
0.17185	54.22	6.344	41.83	21.46688	3.383808
0.17189	54.22	6.345	41.83	21.4682	3.383483
0.17194	54.22	6.346	41.84	21.46952	3.383158
0.17198	54.22	6.347	41.84	21.47084	3.382833
0.17203	54.23	6.348	41.85	21.47216	3.382508
0.17207	54.23	6.349	41.85	21.47348	3.382183
0.17211	54.23	6.35	41.86	21.4748	3.381858
0.17216	54.23	6.351	41.86	21.47612	3.381534
0.1722	54.23	6.352	41.86	21.47745	3.381211
0.17225	54.23	6.353	41.87	21.47877	3.380886
0.17229	54.23	6.354	41.87	21.48009	3.380562
0.17234	54.23	6.355	41.88	21.48141	3.380238
0.17238	54.23	6.356	41.88	21.48273	3.379913
0.17242	54.24	6.357	41.89	21.48406	3.379591
0.17247	54.24	6.358	41.89	21.48538	3.379267
0.17251	54.24	6.359	41.89	21.4867	3.378943
0.17256	54.24	6.36	41.9	21.48803	3.378621
0.1726	54.24	6.361	41.9	21.48935	3.378297
0.17265	54.24	6.362	41.91	21.49067	3.377974
0.17269	54.24	6.363	41.91	21.492	3.377652
0.17274	54.24	6.364	41.92	21.49332	3.377329
0.17278	54.25	6.365	41.92	21.49464	3.377005
0.17282	54.25	6.366	41.92	21.49597	3.376684
0.17287	54.25	6.367	41.93	21.49729	3.376361
0.17291	54.25	6.368	41.93	21.49862	3.37604
0.17296	54.25	6.369	41.94	21.49994	3.375717
0.173	54.25	6.37	41.94	21.50126	3.375394
0.17305	54.25	6.371	41.95	21.50259	3.375073
0.17309	54.25	6.372	41.95	21.50391	3.37475
0.17313	54.25	6.373	41.95	21.50524	3.37443
0.17318	54.26	6.374	41.96	21.50656	3.374107
0.17322	54.26	6.375	41.96	21.50789	3.373787
0.17327	54.26	6.376	41.97	21.50922	3.373466
0.17331	54.26	6.377	41.97	21.51054	3.373144
0.17336	54.26	6.378	41.98	21.51187	3.372824
0.1734	54.26	6.379	41.98	21.51319	3.372502
0.17344	54.26	6.38	41.98	21.51452	3.372182
0.17349	54.26	6.381	41.99	21.51585	3.371862
0.17353	54.26	6.382	41.99	21.51717	3.37154
0.17358	54.27	6.383	42	21.5185	3.37122
0.17362	54.27	6.384	42	21.51983	3.370901
0.17367	54.27	6.385	42.01	21.52116	3.370581
0.17371	54.27	6.386	42.01	21.52248	3.37026
0.17375	54.27	6.387	42.01	21.52381	3.369941
0.1738	54.27	6.388	42.02	21.52514	3.369621
0.17384	54.27	6.389	42.02	21.52647	3.369302
0.17389	54.27	6.39	42.03	21.52779	3.368981
0.17393	54.27	6.391	42.03	21.52912	3.368662
0.17398	54.28	6.392	42.04	21.53045	3.368343
0.17402	54.28	6.393	42.04	21.53178	3.368024
0.17406	54.28	6.394	42.04	21.53311	3.367706
0.17411	54.28	6.395	42.05	21.53444	3.367387
0.17415	54.28	6.396	42.05	21.53577	3.367068
0.1742	54.28	6.397	42.06	21.5371	3.36675
0.17424	54.28	6.398	42.06	21.53843	3.366432
0.17429	54.28	6.399	42.06	21.53976	3.366113
0.17433	54.28	6.4	42.07	21.54109	3.365795
0.17437	54.29	6.401	42.07	21.54242	3.365477
0.17442	54.29	6.402	42.08	21.54375	3.365159
0.17446	54.29	6.403	42.08	21.54508	3.364841
0.17451	54.29	6.404	42.09	21.54641	3.364524
0.17455	54.29	6.405	42.09	21.54774	3.364206
0.1746	54.29	6.406	42.09	21.54907	3.363889
0.17464	54.29	6.407	42.1	21.5504	3.363571
0.17468	54.29	6.408	42.1	21.55173	3.363254
0.17473	54.29	6.409	42.11	21.55306	3.362936
0.17477	54.29	6.41	42.11	21.55439	3.362619
0.17482	54.3	6.411	42.12	21.55573	3.362304
0.17486	54.3	6.412	42.12	21.55706	3.361987
0.17491	54.3	6.413	42.12	21.55839	3.36167
0.17495	54.3	6.414	42.13	21.55972	3.361353
0.17499	54.3	6.415	42.13	21.56105	3.361037
0.17504	54.3	6.416	42.14	21.56239	3.360722
0.17508	54.3	6.417	42.14	21.56372	3.360405
0.17513	54.3	6.418	42.15	21.56505	3.360089
0.17517	54.3	6.419	42.15	21.56639	3.359774
0.17522	54.31	6.42	42.15	21.56772	3.359458
0.17526	54.31	6.421	42.16	21.56905	3.359142
0.1753	54.31	6.422	42.16	21.57039	3.358827
0.17535	54.31	6.423	42.17	21.57172	3.358512
0.17539	54.31	6.424	42.17	21.57305	3.358196
0.17544	54.31	6.425	42.18	21.57439	3.357882
0.17548	54.31	6.426	42.18	21.57572	3.357566
0.17553	54.31	6.427	42.18	21.57706	3.357252
0.17557	54.31	6.428	42.19	21.57839	3.356937
0.17561	54.32	6.429	42.19	21.57973	3.356623
0.17566	54.32	6.43	42.2	21.58106	3.356308
0.1757	54.32	6.431	42.2	21.5824	3.355994
0.17575	54.32	6.432	42.21	21.58373	3.355679
0.17579	54.32	6.433	42.21	21.58507	3.355366
0.17584	54.32	6.434	42.21	21.5864	3.355051
0.17588	54.32	6.435	42.22	21.58774	3.354738
0.17592	54.32	6.436	42.22	21.58908	3.354425
0.17597	54.32	6.437	42.23	21.59041	3.354111
0.17601	54.32	6.438	42.23	21.59175	3.353798
0.17606	54.33	6.439	42.24	21.59309	3.353485
0.1761	54.33	6.44	42.24	21.59442	3.353171
0.17614	54.33	6.441	42.24	21.59576	3.352858
0.17619	54.33	6.442	42.25	21.5971	3.352546
0.17623	54.33	6.443	42.25	21.59843	3.352232
0.17628	54.33	6.444	42.26	21.59977	3.35192
0.17632	54.33	6.445	42.26	21.60111	3.351607
0.17637	54.33	6.446	42.27	21.60245	3.351295
0.17641	54.33	6.447	42.27	21.60379	3.350983
0.17645	54.34	6.448	42.27	21.60512	3.35067
0.1765	54.34	6.449	42.28	21.60646	3.350358
0.17654	54.34	6.45	42.28	21.6078	3.350047
0.17659	54.34	6.451	42.29	21.60914	3.349735
0.17663	54.34	6.452	42.29	21.61048	3.349423
0.17668	54.34	6.453	42.3	21.61182	3.349112
0.17672	54.34	6.454	42.3	21.61316	3.348801
0.17676	54.34	6.455	42.3	21.6145	3.34849
0.17681	54.34	6.456	42.31	21.61584	3.348178
0.17685	54.34	6.457	42.31	21.61718	3.347867
0.1769	54.35	6.458	42.32	21.61852	3.347557
0.17694	54.35	6.459	42.32	21.61986	3.347246
0.17698	54.35	6.46	42.32	21.6212	3.346935
0.17703	54.35	6.461	42.33	21.62254	3.346624
0.17707	54.35	6.462	42.33	21.62388	3.346314
0.17712	54.35	6.463	42.34	21.62522	3.346003
0.17716	54.35	6.464	42.34	21.62656	3.345693
0.17721	54.35	6.465	42.35	21.6279	3.345383
0.17725	54.35	6.466	42.35	21.62924	3.345073
0.17729	54.35	6.467	42.35	21.63058	3.344763
0.17734	54.36	6.468	42.36	21.63193	3.344454
0.17738	54.36	6.469	42.36	21.63327	3.344144
0.17743	54.36	6.47	42.37	21.63461	3.343835
0.17747	54.36	6.471	42.37	21.63595	3.343525
0.17752	54.36	6.472	42.38	21.63729	3.343215
0.17756	54.36	6.473	42.38	21.63864	3.342907
0.1776	54.36	6.474	42.38	21.63998	3.342598
0.17765	54.36	6.475	42.39	21.64132	3.342289
0.17769	54.36	6.476	42.39	21.64267	3.341981
0.17774	54.37	6.477	42.4	21.64401	3.341672
0.17778	54.37	6.478	42.4	21.64535	3.341363
0.17782	54.37	6.479	42.41	21.6467	3.341056
0.17787	54.37	6.48	42.41	21.64804	3.340747
0.17791	54.37	6.481	42.41	21.64938	3.340438
0.17796	54.37	6.482	42.42	21.65073	3.340131
0.178	54.37	6.483	42.42	21.65207	3.339823
0.17805	54.37	6.484	42.43	21.65342	3.339516
0.17809	54.37	6.485	42.43	21.65476	3.339207
0.17813	54.37	6.486	42.44	21.65611	3.338901
0.17818	54.38	6.487	42.44	21.65745	3.338593
0.17822	54.38	6.488	42.44	21.6588	3.338286
0.17827	54.38	6.489	42.45	21.66014	3.337978
0.17831	54.38	6.49	42.45	21.66149	3.337672
0.17835	54.38	6.491	42.46	21.66283	3.337364
0.1784	54.38	6.492	42.46	21.66418	3.337058
0.17844	54.38	6.493	42.46	21.66553	3.336752
0.17849	54.38	6.494	42.47	21.66687	3.336444
0.17853	54.38	6.495	42.47	21.66822	3.336139
0.17858	54.38	6.496	42.48	21.66956	3.335831
0.17862	54.39	6.497	42.48	21.67091	3.335526
0.17866	54.39	6.498	42.49	21.67226	3.33522
0.17871	54.39	6.499	42.49	21.67361	3.334915
0.17875	54.39	6.5	42.49	21.67495	3.334608
0.1788	54.39	6.501	42.5	21.6763	3.334302
0.17884	54.39	6.502	42.5	21.67765	3.333997
0.17888	54.39	6.503	42.51	21.679	3.333692
0.17893	54.39	6.504	42.51	21.68034	3.333386
0.17897	54.39	6.505	42.52	21.68169	3.333081
0.17902	54.39	6.506	42.52	21.68304	3.332776
0.17906	54.39	6.507	42.52	21.68439	3.332471
0.17911	54.4	6.508	42.53	21.68574	3.332167
0.17915	54.4	6.509	42.53	21.68709	3.331862
0.17919	54.4	6.51	42.54	21.68844	3.331558
0.17924	54.4	6.511	42.54	21.68978	3.331252
0.17928	54.4	6.512	42.55	21.69113	3.330947
0.17933	54.4	6.513	42.55	21.69248	3.330643
0.17937	54.4	6.514	42.55	21.69383	3.330339
0.17941	54.4	6.515	42.56	21.69518	3.330035
0.17946	54.4	6.516	42.56	21.69653	3.329731
0.1795	54.4	6.517	42.57	21.69788	3.329428
0.17955	54.41	6.518	42.57	21.69923	3.329124
0.17959	54.41	6.519	42.58	21.70059	3.328822
0.17963	54.41	6.52	42.58	21.70194	3.328518
0.17968	54.41	6.521	42.58	21.70329	3.328215
0.17972	54.41	6.522	42.59	21.70464	3.327912
0.17977	54.41	6.523	42.59	21.70599	3.327608
0.17981	54.41	6.524	42.6	21.70734	3.327305
0.17986	54.41	6.525	42.6	21.70869	3.327002
0.1799	54.41	6.526	42.6	21.71005	3.326701
0.17994	54.41	6.527	42.61	21.7114	3.326398
0.17999	54.42	6.528	42.61	21.71275	3.326095
0.18003	54.42	6.529	42.62	21.7141	3.325793
0.18008	54.42	6.53	42.62	21.71545	3.32549
0.18012	54.42	6.531	42.63	21.71681	3.325189
0.18016	54.42	6.532	42.63	21.71816	3.324887
0.18021	54.42	6.533	42.63	21.71951	3.324584
0.18025	54.42	6.534	42.64	21.72087	3.324284
0.1803	54.42	6.535	42.64	21.72222	3.323982
0.18034	54.42	6.536	42.65	21.72357	3.32368
0.18038	54.42	6.537	42.65	21.72493	3.323379
0.18043	54.42	6.538	42.66	21.72628	3.323077
0.18047	54.43	6.539	42.66	21.72764	3.322777
0.18052	54.43	6.54	42.66	21.72899	3.322476
0.18056	54.43	6.541	42.67	21.73034	3.322174
0.18061	54.43	6.542	42.67	21.7317	3.321874
0.18065	54.43	6.543	42.68	21.73305	3.321573
0.18069	54.43	6.544	42.68	21.73441	3.321273
0.18074	54.43	6.545	42.68	21.73577	3.320973
0.18078	54.43	6.546	42.69	21.73712	3.320672
0.18083	54.43	6.547	42.69	21.73848	3.320373
0.18087	54.43	6.548	42.7	21.73983	3.320072
0.18091	54.43	6.549	42.7	21.74119	3.319772
0.18096	54.44	6.55	42.71	21.74254	3.319472
0.181	54.44	6.551	42.71	21.7439	3.319173
0.18105	54.44	6.552	42.71	21.74526	3.318874
0.18109	54.44	6.553	42.72	21.74661	3.318573
0.18113	54.44	6.554	42.72	21.74797	3.318274
0.18118	54.44	6.555	42.73	21.74933	3.317976
0.18122	54.44	6.556	42.73	21.75068	3.317675
0.18127	54.44	6.557	42.74	21.75204	3.317377
0.18131	54.44	6.558	42.74	21.7534	3.317078
0.18135	54.44	6.559	42.74	21.75476	3.31678
0.1814	54.45	6.56	42.75	21.75612	3.316482
0.18144	54.45	6.561	42.75	21.75747	3.316182
0.18149	54.45	6.562	42.76	21.75883	3.315884
0.18153	54.45	6.563	42.76	21.76019	3.315586
0.18157	54.45	6.564	42.76	21.76155	3.315288
0.18162	54.45	6.565	42.77	21.76291	3.31499
0.18166	54.45	6.566	42.77	21.76427	3.314692
0.18171	54.45	6.567	42.78	21.76563	3.314395
0.18175	54.45	6.568	42.78	21.76699	3.314097
0.1818	54.45	6.569	42.79	21.76834	3.313798
0.18184	54.45	6.57	42.79	21.7697	3.313501
0.18188	54.46	6.571	42.79	21.77106	3.313203
0.18193	54.46	6.572	42.8	21.77242	3.312906
0.18197	54.46	6.573	42.8	21.77378	3.312609
0.18202	54.46	6.574	42.81	21.77515	3.312314
0.18206	54.46	6.575	42.81	21.77651	3.312017
0.1821	54.46	6.576	42.82	21.77787	3.31172
0.18215	54.46	6.577	42.82	21.77923	3.311423
0.18219	54.46	6.578	42.82	21.78059	3.311126
0.18224	54.46	6.579	42.83	21.78195	3.31083
0.18228	54.46	6.58	42.83	21.78331	3.310533
0.18232	54.46	6.581	42.84	21.78467	3.310237
0.18237	54.47	6.582	42.84	21.78603	3.309941
0.18241	54.47	6.583	42.84	21.7874	3.309646
0.18246	54.47	6.584	42.85	21.78876	3.30935
0.1825	54.47	6.585	42.85	21.79012	3.309054
0.18254	54.47	6.586	42.86	21.79148	3.308758
0.18259	54.47	6.587	42.86	21.79285	3.308464
0.18263	54.47	6.588	42.87	21.79421	3.308168
0.18268	54.47	6.589	42.87	21.79557	3.307872
0.18272	54.47	6.59	42.87	21.79694	3.307578
0.18276	54.47	6.591	42.88	21.7983	3.307283
0.18281	54.47	6.592	42.88	21.79966	3.306987
0.18285	54.47	6.593	42.89	21.80103	3.306693
0.1829	54.48	6.594	42.89	21.80239	3.306398
0.18294	54.48	6.595	42.9	21.80376	3.306105
0.18298	54.48	6.596	42.9	21.80512	3.30581
0.18303	54.48	6.597	42.9	21.80648	3.305515
0.18307	54.48	6.598	42.91	21.80785	3.305221
0.18312	54.48	6.599	42.91	21.80921	3.304927
0.18316	54.48	6.6	42.92	21.81058	3.304633
0.1832	54.48	6.601	42.92	21.81194	3.304339
0.18325	54.48	6.602	42.92	21.81331	3.304046
0.18329	54.48	6.603	42.93	21.81467	3.303751
0.18334	54.48	6.604	42.93	21.81604	3.303459
0.18338	54.49	6.605	42.94	21.81741	3.303166
0.18342	54.49	6.606	42.94	21.81877	3.302872
0.18347	54.49	6.607	42.95	21.82014	3.302579
0.18351	54.49	6.608	42.95	21.82151	3.302287
0.18356	54.49	6.609	42.95	21.82287	3.301993
0.1836	54.49	6.61	42.96	21.82424	3.3017
0.18364	54.49	6.611	42.96	21.82561	3.301408
0.18369	54.49	6.612	42.97	21.82697	3.301115
0.18373	54.49	6.613	42.97	21.82834	3.300823
0.18378	54.49	6.614	42.98	21.82971	3.300531
0.18382	54.49	6.615	42.98	21.83108	3.300239
0.18386	54.49	6.616	42.98	21.83244	3.299946
0.18391	54.5	6.617	42.99	21.83381	3.299654
0.18395	54.5	6.618	42.99	21.83518	3.299362
0.184	54.5	6.619	43	21.83655	3.299071
0.18404	54.5	6.62	43	21.83792	3.298779
0.18409	54.5	6.621	43	21.83929	3.298488
0.18413	54.5	6.622	43.01	21.84066	3.298197
0.18417	54.5	6.623	43.01	21.84202	3.297904
0.18422	54.5	6.624	43.02	21.84339	3.297613
0.18426	54.5	6.625	43.02	21.84476	3.297322
0.18431	54.5	6.626	43.03	21.84613	3.297031
0.18435	54.5	6.627	43.03	21.8475	3.296741
0.18439	54.51	6.628	43.03	21.84887	3.29645
0.18444	54.51	6.629	43.04	21.85024	3.296159
0.18448	54.51	6.63	43.04	21.85161	3.295869
0.18453	54.51	6.631	43.05	21.85298	3.295578
0.18457	54.51	6.632	43.05	21.85435	3.295288
0.18461	54.51	6.633	43.05	21.85573	3.294999
0.18466	54.51	6.634	43.06	21.8571	3.294709
0.1847	54.51	6.635	43.06	21.85847	3.294419
0.18474	54.51	6.636	43.07	21.85984	3.294129
0.18479	54.51	6.637	43.07	21.86121	3.293839
0.18483	54.51	6.638	43.08	21.86258	3.293549
0.18488	54.51	6.639	43.08	21.86396	3.293261
0.18492	54.52	6.64	43.08	21.86533	3.292971
0.18496	54.52	6.641	43.09	21.8667	3.292682
0.18501	54.52	6.642	43.09	21.86807	3.292392
0.18505	54.52	6.643	43.1	21.86945	3.292104
0.1851	54.52	6.644	43.1	21.87082	3.291815
0.18514	54.52	6.645	43.11	21.87219	3.291526
0.18518	54.52	6.646	43.11	21.87356	3.291237
0.18523	54.52	6.647	43.11	21.87494	3.290949
0.18527	54.52	6.648	43.12	21.87631	3.29066
0.18532	54.52	6.649	43.12	21.87769	3.290373
0.18536	54.52	6.65	43.13	21.87906	3.290084
0.1854	54.52	6.651	43.13	21.88043	3.289796
0.18545	54.52	6.652	43.13	21.88181	3.289508
0.18549	54.53	6.653	43.14	21.88318	3.28922
0.18554	54.53	6.654	43.14	21.88456	3.288933
0.18558	54.53	6.655	43.15	21.88593	3.288645
0.18562	54.53	6.656	43.15	21.88731	3.288358
0.18567	54.53	6.657	43.16	21.88868	3.28807
0.18571	54.53	6.658	43.16	21.89006	3.287783
0.18576	54.53	6.659	43.16	21.89143	3.287495
0.1858	54.53	6.66	43.17	21.89281	3.287209
0.18584	54.53	6.661	43.17	21.89419	3.286922
0.18589	54.53	6.662	43.18	21.89556	3.286635
0.18593	54.53	6.663	43.18	21.89694	3.286348
0.18598	54.53	6.664	43.18	21.89832	3.286062
0.18602	54.54	6.665	43.19	21.89969	3.285775
0.18606	54.54	6.666	43.19	21.90107	3.285489
0.18611	54.54	6.667	43.2	21.90245	3.285203
0.18615	54.54	6.668	43.2	21.90382	3.284916
0.1862	54.54	6.669	43.21	21.9052	3.28463
0.18624	54.54	6.67	43.21	21.90658	3.284345
0.18628	54.54	6.671	43.21	21.90796	3.284059
0.18633	54.54	6.672	43.22	21.90933	3.283772
0.18637	54.54	6.673	43.22	21.91071	3.283487
0.18642	54.54	6.674	43.23	21.91209	3.283202
0.18646	54.54	6.675	43.23	21.91347	3.282917
0.1865	54.54	6.676	43.23	21.91485	3.282632
0.18655	54.55	6.677	43.24	21.91623	3.282347
0.18659	54.55	6.678	43.24	21.91761	3.282062
0.18664	54.55	6.679	43.25	21.91898	3.281776
0.18668	54.55	6.68	43.25	21.92036	3.281491
0.18672	54.55	6.681	43.26	21.92174	3.281206
0.18677	54.55	6.682	43.26	21.92312	3.280922
0.18681	54.55	6.683	43.26	21.9245	3.280637
0.18686	54.55	6.684	43.27	21.92588	3.280353
0.1869	54.55	6.685	43.27	21.92726	3.280069
0.18694	54.55	6.686	43.28	21.92864	3.279785
0.18699	54.55	6.687	43.28	21.93003	3.279502
0.18703	54.55	6.688	43.28	21.93141	3.279218
0.18707	54.55	6.689	43.29	21.93279	3.278934
0.18712	54.56	6.69	43.29	21.93417	3.27865
0.18716	54.56	6.691	43.3	21.93555	3.278366
0.18721	54.56	6.692	43.3	21.93693	3.278083
0.18725	54.56	6.693	43.31	21.93831	3.277799
0.18729	54.56	6.694	43.31	21.9397	3.277517
0.18734	54.56	6.695	43.31	21.94108	3.277234
0.18738	54.56	6.696	43.32	21.94246	3.27695
0.18743	54.56	6.697	43.32	21.94384	3.276667
0.18747	54.56	6.698	43.33	21.94523	3.276385
0.18751	54.56	6.699	43.33	21.94661	3.276102
0.18756	54.56	6.7	43.33	21.94799	3.275819
0.1876	54.56	6.701	43.34	21.94937	3.275536
0.18765	54.56	6.702	43.34	21.95076	3.275255
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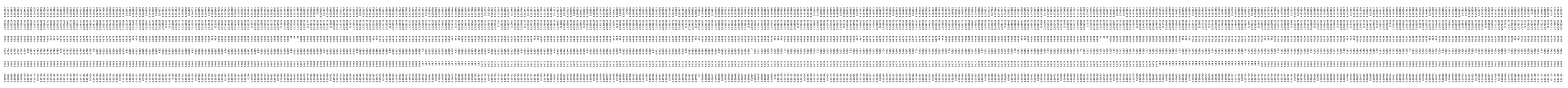

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0.22045	54.85	7.453	46.37	23.04306	3.091783
0.22049	54.85	7.454	46.37	23.04459	3.091574
0.22053	54.85	7.455	46.38	23.04611	3.091363
0.22058	54.85	7.456	46.38	23.04764	3.091153
0.22062	54.85	7.457	46.38	23.04917	3.090944
0.22066	54.85	7.458	46.39	23.0507	3.090735
0.22071	54.85	7.459	46.39	23.05223	3.090526
0.22075	54.85	7.46	46.4	23.05376	3.090316
0.22079	54.85	7.461	46.4	23.05529	3.090107
0.22084	54.85	7.462	46.4	23.05682	3.089898
0.22088	54.85	7.463	46.41	23.05835	3.089689
0.22093	54.85	7.464	46.41	23.05988	3.08948
0.22097	54.85	7.465	46.42	23.06141	3.089271
0.22101	54.85	7.466	46.42	23.06294	3.089062
0.22106	54.85	7.467	46.42	23.06447	3.088854
0.2211	54.85	7.468	46.43	23.066	3.088645
0.22114	54.85	7.469	46.43	23.06754	3.088438
0.22119	54.85	7.47	46.43	23.06907	3.088229
0.22123	54.85	7.471	46.44	23.0706	3.08802
0.22127	54.85	7.472	46.44	23.07213	3.087812
0.22132	54.85	7.473	46.45	23.07366	3.087603
0.22136	54.85	7.474	46.45	23.0752	3.087396
0.2214	54.85	7.475	46.45	23.07673	3.087188
0.22145	54.85	7.476	46.46	23.07826	3.08698
0.22149	54.85	7.477	46.46	23.07979	3.086771
0.22153	54.85	7.478	46.47	23.08133	3.086565
0.22158	54.85	7.479	46.47	23.08286	3.086356
0.22162	54.85	7.48	46.47	23.08439	3.086148
0.22167	54.85	7.481	46.48	23.08593	3.085942
0.22171	54.85	7.482	46.48	23.08746	3.085734
0.22175	54.85	7.483	46.49	23.089	3.085527
0.2218	54.85	7.484	46.49	23.09053	3.085319
0.22184	54.85	7.485	46.49	23.09207	3.085113
0.22188	54.85	7.486	46.5	23.0936	3.084905
0.22193	54.85	7.487	46.5	23.09514	3.084699
0.22197	54.85	7.488	46.5	23.09667	3.084491
0.22201	54.85	7.489	46.51	23.09821	3.084285
0.22206	54.85	7.49	46.51	23.09974	3.084077
0.2221	54.85	7.491	46.52	23.10128	3.083871
0.22214	54.85	7.492	46.52	23.10281	3.083664
0.22219	54.85	7.493	46.52	23.10435	3.083458
0.22223	54.85	7.494	46.53	23.10589	3.083252
0.22228	54.85	7.495	46.53	23.10742	3.083045
0.22232	54.85	7.496	46.54	23.10896	3.082839
0.22236	54.85	7.497	46.54	23.1105	3.082633
0.22241	54.85	7.498	46.54	23.11204	3.082427
0.22245	54.85	7.499	46.55	23.11357	3.08222
0.22249	54.85	7.5	46.55	23.11511	3.082015
0.22254	54.85	7.501	46.56	23.11665	3.081809
0.22258	54.85	7.502	46.56	23.11819	3.081604
0.22262	54.85	7.503	46.56	23.11973	3.081398
0.22267	54.85	7.504	46.57	23.12126	3.081191
0.22271	54.85	7.505	46.57	23.1228	3.080986
0.22275	54.85	7.506	46.57	23.12434	3.080781
0.2228	54.85	7.507	46.58	23.12588	3.080575
0.22284	54.85	7.508	46.58	23.12742	3.08037
0.22288	54.85	7.509	46.59	23.12896	3.080165
0.22293	54.85	7.51	46.59	23.1305	3.07996
0.22297	54.85	7.511	46.59	23.13204	3.079755
0.22302	54.85	7.512	46.6	23.13358	3.07955
0.22306	54.85	7.513	46.6	23.13512	3.079345
0.2231	54.85	7.514	46.61	23.13666	3.07914
0.22315	54.85	7.515	46.61	23.1382	3.078935
0.22319	54.85	7.516	46.61	23.13974	3.078731
0.22323	54.85	7.517	46.62	23.14129	3.078527
0.22328	54.85	7.518	46.62	23.14283	3.078323
0.22332	54.85	7.519	46.62	23.14437	3.078118
0.22336	54.85	7.52	46.63	23.14591	3.077914
0.22341	54.85	7.521	46.63	23.14745	3.077709
0.22345	54.85	7.522	46.64	23.14899	3.077505
0.22349	54.85	7.523	46.64	23.15054	3.077302
0.22354	54.85	7.524	46.64	23.15208	3.077097
0.22358	54.85	7.525	46.65	23.15362	3.076893
0.22363	54.85	7.526	46.65	23.15517	3.07669
0.22367	54.85	7.527	46.66	23.15671	3.076486
0.22371	54.85	7.528	46.66	23.15825	3.076282
0.22376	54.85	7.529	46.66	23.1598	3.076079
0.2238	54.85	7.53	46.67	23.16134	3.075875
0.22384	54.85	7.531	46.67	23.16288	3.075671
0.22389	54.85	7.532	46.68	23.16443	3.075469
0.22393	54.85	7.533	46.68	23.16597	3.075265
0.22397	54.85	7.534	46.68	23.16752	3.075062
0.22402	54.85	7.535	46.69	23.16906	3.074859
0.22406	54.85	7.536	46.69	23.17061	3.074656
0.2241	54.85	7.537	46.69	23.17215	3.074453
0.22415	54.85	7.538	46.7	23.1737	3.07425
0.22419	54.85	7.539	46.7	23.17525	3.074048
0.22424	54.85	7.54	46.71	23.17679	3.073845
0.22428	54.85	7.541	46.71	23.17834	3.073643
0.22432	54.85	7.542	46.71	23.17988	3.073439
0.22437	54.85	7.543	46.72	23.18143	3.073237
0.22441	54.85	7.544	46.72	23.18298	3.073036
0.22445	54.85	7.545	46.73	23.18453	3.072834
0.2245	54.85	7.546	46.73	23.18607	3.072631
0.22454	54.85	7.547	46.73	23.18762	3.072429
0.22458	54.85	7.548	46.74	23.18917	3.072227
0.22463	54.85	7.549	46.74	23.19072	3.072025
0.22467	54.85	7.55	46.74	23.19226	3.071823
0.22471	54.85	7.551	46.75	23.19381	3.071621
0.22476	54.85	7.552	46.75	23.19536	3.071419
0.2248	54.85	7.553	46.76	23.19691	3.071218
0.22484	54.85	7.554	46.76	23.19846	3.071017
0.22489	54.85	7.555	46.76	23.20001	3.070815
0.22493	54.85	7.556	46.77	23.20156	3.070614
0.22498	54.85	7.557	46.77	23.20311	3.070413
0.22502	54.85	7.558	46.78	23.20466	3.070212
0.22506	54.85	7.559	46.78	23.20621	3.070011
0.22511	54.85	7.56	46.78	23.20776	3.06981
0.22515	54.85	7.561	46.79	23.20931	3.069609
0.22519	54.85	7.562	46.79	23.21086	3.069408
0.22524	54.85	7.563	46.79	23.21241	3.069207
0.22528	54.85	7.564	46.8	23.21396	3.069006
0.22532	54.85	7.565	46.8	23.21551	3.068805
0.22537	54.85	7.566	46.81	23.21706	3.068604
0.22541	54.85	7.567	46.81	23.21861	3.068404
0.22545	54.85	7.568	46.81	23.22017	3.068204
0.2255	54.85	7.569	46.82	23.22172	3.068004
0.22554	54.85	7.57	46.82	23.22327	3.067803
0.22559	54.85	7.571	46.83	23.22482	3.067603
0.22563	54.85	7.572	46.83	23.22637	3.067402
0.22567	54.85	7.573	46.83	23.22793	3.067203
0.22572	54.85	7.574	46.84	23.22948	3.067003
0.22576	54.85	7.575	46.84	23.23103	3.066803
0.2258	54.85	7.576	46.85	23.23259	3.066604
0.22585	54.85	7.577	46.85	23.23414	3.066404
0.22589	54.85	7.578	46.85	23.2357	3.066205
0.22593	54.85	7.579	46.86	23.23725	3.066005
0.22598	54.85	7.58	46.86	23.2388	3.065805
0.22602	54.85	7.581	46.86	23.24036	3.065606
0.22606	54.85	7.582	46.87	23.24191	3.065406
0.22611	54.85	7.583	46.87	23.24347	3.065208
0.22615	54.85	7.584	46.88	23.24502	3.065008
0.22619	54.85	7.585	46.88	23.24658	3.064809
0.22624	54.85	7.586	46.88	23.24813	3.06461
0.22628	54.85	7.587	46.89	23.24969	3.064411
0.22633	54.85	7.588	46.89	23.25125	3.064213
0.22637	54.85	7.589	46.9	23.2528	3.064014
0.22641	54.85	7.59	46.9	23.25436	3.063816
0.22646	54.85	7.591	46.9	23.25592	3.063617
0.2265	54.85	7.592	46.91	23.25747	3.063418
0.22654	54.85	7.593	46.91	23.25903	3.06322
0.22659	54.85	7.594	46.91	23.26059	3.063022
0.22663	54.85	7.595	46.92	23.26214	3.062823
0.22667	54.85	7.596	46.92	23.2637	3.062625
0.22672	54.85	7.597	46.93	23.26526	3.062427
0.22676	54.85	7.598	46.93	23.26682	3.06223
0.2268	54.85	7.599	46.93	23.26838	3.062032
0.22685	54.85	7.6	46.94	23.26993	3.061833
0.22689	54.85	7.601	46.94	23.27149	3.061635
0.22694	54.85	7.602	46.95	23.27305	3.061438
0.22698	54.85	7.603	46.95	23.27461	3.06124
0.22702	54.85	7.604	46.95	23.27617	3.061043
0.22707	54.85	7.605	46.96	23.27773	3.060845
0.22711	54.85	7.606	46.96	23.27929	3.060648
0.22715	54.85	7.607	46.96	23.28085	3.060451
0.2272	54.85	7.608	46.97	23.28241	3.060254
0.22724	54.85	7.609	46.97	23.28397	3.060057
0.22728	54.85	7.61	46.98	23.28553	3.059859
0.22733	54.85	7.611	46.98	23.28709	3.059662
0.22737	54.85	7.612	46.98	23.28865	3.059465
0.22741	54.85	7.613	46.99	23.29021	3.059268
0.22746	54.85	7.614	46.99	23.29178	3.059073
0.2275	54.85	7.615	47	23.29334	3.058876
0.22755	54.85	7.616	47	23.2949	3.058679
0.22759	54.85	7.617	47	23.29646	3.058482
0.22763	54.85	7.618	47.01	23.29802	3.058286
0.22768	54.85	7.619	47.01	23.29959	3.05809
0.22772	54.85	7.62	47.01	23.30115	3.057894
0.22776	54.85	7.621	47.02	23.30271	3.057697
0.22781	54.85	7.622	47.02	23.30427	3.057501
0.22785	54.85	7.623	47.03	23.30584	3.057306
0.22789	54.85	7.624	47.03	23.3074	3.057109
0.22794	54.85	7.625	47.03	23.30897	3.056914
0.22798	54.85	7.626	47.04	23.31053	3.056718
0.22802	54.85	7.627	47.04	23.31209	3.056522
0.22807	54.84	7.628	47.04	23.31366	3.056327
0.22811	54.84	7.629	47.05	23.31522	3.056131
0.22815	54.84	7.63	47.05	23.31679	3.055936
0.2282	54.84	7.631	47.06	23.31835	3.05574
0.22824	54.84	7.632	47.06	23.31992	3.055545
0.22829	54.84	7.633	47.06	23.32148	3.055349
0.22833	54.84	7.634	47.07	23.32305	3.055155
0.22837	54.84	7.635	47.07	23.32461	3.054959
0.22842	54.84	7.636	47.08	23.32618	3.054764
0.22846	54.84	7.637	47.08	23.32775	3.05457
0.2285	54.84	7.638	47.08	23.32931	3.054374
0.22855	54.84	7.639	47.09	23.33088	3.05418
0.22859	54.84	7.64	47.09	23.33245	3.053986
0.22863	54.84	7.641	47.09	23.33401	3.05379
0.22868	54.84	7.642	47.1	23.33558	3.053596
0.22872	54.84	7.643	47.1	23.33715	3.053402
0.22876	54.84	7.644	47.11	23.33872	3.053208
0.22881	54.84	7.645	47.11	23.34029	3.053014
0.22885	54.84	7.646	47.11	23.34185	3.052818
0.2289	54.84	7.647	47.12	23.34342	3.052625
0.22894	54.84	7.648	47.12	23.34499	3.052431
0.22898	54.84	7.649	47.13	23.34656	3.052237
0.22903	54.84	7.65	47.13	23.34813	3.052043
0.22907	54.84	7.651	47.13	23.3497	3.051849
0.22911	54.84	7.652	47.14	23.35127	3.051656
0.22916	54.84	7.653	47.14	23.35284	3.051462
0.2292	54.84	7.654	47.14	23.35441	3.051269
0.22924	54.84	7.655	47.15	23.35598	3.051075
0.22929	54.84	7.656	47.15	23.35755	3.050882
0.22933	54.84	7.657	47.16	23.35912	3.050688
0.22937	54.84	7.658	47.16	23.36069	3.050495
0.22942	54.84	7.659	47.16	23.36226	3.050302
0.22946	54.84	7.66	47.17	23.36383	3.050108
0.22951	54.84	7.661	47.17	23.3654	3.049915
0.22955	54.84	7.662	47.18	23.36697	3.049722
0.22959	54.84	7.663	47.18	23.36854	3.049529
0.22964	54.84	7.664	47.18	23.37012	3.049337
0.22968	54.84	7.665	47.19	23.37169	3.049144
0.22972	54.84	7.666	47.19	23.37326	3.048951
0.22977	54.84	7.667	47.19	23.37483	3.048758
0.22981	54.84	7.668	47.2	23.37641	3.048567
0.22985	54.84	7.669	47.2	23.37798	3.048374
0.2299	54.84	7.67	47.21	23.37955	3.048181
0.22994	54.84	7.671	47.21	23.38113	3.04799
0.22998	54.84	7.672	47.21	23.3827	3.047797
0.23003	54.84	7.673	47.22	23.38427	3.047605
0.23007	54.84	7.674	47.22	23.38585	3.047413
0.23012	54.84	7.675	47.22	23.38742	3.047221
0.23016	54.84	7.676	47.23	23.389	3.04703
0.2302	54.84	7.677	47.23	23.39057	3.046837
0.23025	54.84	7.678	47.24	23.39215	3.046646
0.23029	54.84	7.679	47.24	23.39372	3.046454
0.23033	54.84	7.68	47.24	23.3953	3.046263
0.23038	54.84	7.681	47.25	23.39687	3.046071
0.23042	54.84	7.682	47.25	23.39845	3.04588
0.23046	54.84	7.683	47.26	23.40002	3.045688
0.23051	54.84	7.684	47.26	23.4016	3.045497
0.23055	54.84	7.685	47.26	23.40318	3.045306
0.23059	54.84	7.686	47.27	23.40475	3.045114
0.23064	54.84	7.687	47.27	23.40633	3.044924
0.23068	54.84	7.688	47.27	23.40791	3.044733
0.23073	54.84	7.689	47.28	23.40948	3.044542
0.23077	54.84	7.69	47.28	23.41106	3.044351
0.23081	54.83	7.691	47.29	23.41264	3.044161
0.23086	54.83	7.692	47.29	23.41422	3.04397
0.2309	54.83	7.693	47.29	23.4158	3.04378
0.23094	54.83	7.694	47.3	23.41737	3.043589
0.23099	54.83	7.695	47.3	23.41895	3.043398
0.23103	54.83	7.696	47.3	23.42053	3.043208
0.23107	54.83	7.697	47.31	23.42211	3.043018
0.23112	54.83	7.698	47.31	23.42369	3.042828
0.23116	54.83	7.699	47.32	23.42527	3.042638
0.2312	54.83	7.7	47.32	23.42685	3.042448
0.23125	54.83	7.701	47.32	23.42843	3.042258
0.23129	54.83	7.702	47.33	23.43001	3.042068
0.23134	54.83	7.703	47.33	23.43159	3.041878
0.23138	54.83	7.704	47.34	23.43317	3.041689
0.23142	54.83	7.705	47.34	23.43475	3.041499
0.23147	54.83	7.706	47.34	23.43633	3.041309
0.23151	54.83	7.707	47.35	23.43791	3.04112
0.23155	54.83	7.708	47.35	23.43949	3.04093
0.2316	54.83	7.709	47.35	23.44107	3.040741
0.23164	54.83	7.71	47.36	23.44266	3.040553
0.23168	54.83	7.711	47.36	23.44424	3.040363
0.23173	54.83	7.712	47.37	23.44582	3.040174
0.23177	54.83	7.713	47.37	23.4474	3.039984
0.23181	54.83	7.714	47.37	23.44899	3.039796
0.23186	54.83	7.715	47.38	23.45057	3.039607
0.2319	54.83	7.716	47.38	23.45215	3.039418
0.23195	54.83	7.717	47.38	23.45373	3.039229
0.23199	54.83	7.718	47.39	23.45532	3.039041
0.23203	54.83	7.719	47.39	23.4569	3.038852
0.23208	54.83	7.72	47.4	23.45849	3.038665

0.23212	54.83	7.721	47.4	23.46007	3.038476
0.23216	54.83	7.722	47.4	23.46165	3.038287
0.23221	54.83	7.723	47.41	23.46324	3.038099
0.23225	54.83	7.724	47.41	23.46482	3.03791
0.23229	54.83	7.725	47.42	23.46641	3.037723
0.23234	54.83	7.726	47.42	23.46799	3.037534
0.23238	54.83	7.727	47.42	23.46958	3.037347
0.23242	54.83	7.728	47.43	23.47116	3.037158
0.23247	54.83	7.729	47.43	23.47275	3.036971
0.23251	54.83	7.73	47.43	23.47434	3.036784
0.23256	54.83	7.731	47.44	23.47592	3.036596
0.2326	54.83	7.732	47.44	23.47751	3.036408
0.23264	54.83	7.733	47.45	23.47909	3.03622
0.23269	54.83	7.734	47.45	23.48068	3.036033
0.23273	54.83	7.735	47.45	23.48227	3.035846
0.23277	54.83	7.736	47.46	23.48386	3.035659
0.23282	54.83	7.737	47.46	23.48544	3.035471
0.23286	54.83	7.738	47.46	23.48703	3.035284
0.2329	54.83	7.739	47.47	23.48862	3.035098
0.23295	54.82	7.74	47.47	23.49021	3.034911
0.23299	54.82	7.741	47.48	23.4918	3.034724
0.23304	54.82	7.742	47.48	23.49338	3.034536
0.23308	54.82	7.743	47.48	23.49497	3.03435
0.23312	54.82	7.744	47.49	23.49656	3.034163
0.23317	54.82	7.745	47.49	23.49815	3.033977
0.23321	54.82	7.746	47.5	23.49974	3.03379
0.23325	54.82	7.747	47.5	23.50133	3.033604
0.2333	54.82	7.748	47.5	23.50292	3.033418
0.23334	54.82	7.749	47.51	23.50451	3.033231
0.23338	54.82	7.75	47.51	23.5061	3.033045
0.23343	54.82	7.751	47.51	23.50769	3.032859
0.23347	54.82	7.752	47.52	23.50928	3.032673
0.23351	54.82	7.753	47.52	23.51087	3.032487
0.23356	54.82	7.754	47.53	23.51246	3.032301
0.2336	54.82	7.755	47.53	23.51405	3.032115
0.23365	54.82	7.756	47.53	23.51565	3.03193
0.23369	54.82	7.757	47.54	23.51724	3.031744
0.23373	54.82	7.758	47.54	23.51883	3.031558
0.23378	54.82	7.759	47.54	23.52042	3.031373
0.23382	54.82	7.76	47.55	23.52201	3.031187
0.23386	54.82	7.761	47.55	23.52361	3.031002
0.23391	54.82	7.762	47.56	23.5252	3.030817
0.23395	54.82	7.763	47.56	23.52679	3.030631
0.23399	54.82	7.764	47.56	23.52839	3.030447
0.23404	54.82	7.765	47.57	23.52998	3.030261
0.23408	54.82	7.766	47.57	23.53157	3.030076
0.23412	54.82	7.767	47.57	23.53317	3.029892
0.23417	54.82	7.768	47.58	23.53476	3.029706
0.23421	54.82	7.769	47.58	23.53636	3.029522
0.23426	54.82	7.77	47.59	23.53795	3.029337
0.2343	54.82	7.771	47.59	23.53954	3.029152
0.23434	54.82	7.772	47.59	23.54114	3.028968
0.23439	54.82	7.773	47.6	23.54273	3.028783
0.23443	54.82	7.774	47.6	23.54433	3.028599
0.23447	54.82	7.775	47.61	23.54593	3.028415
0.23452	54.82	7.776	47.61	23.54752	3.02823
0.23456	54.82	7.777	47.61	23.54912	3.028047
0.2346	54.82	7.778	47.62	23.55071	3.027862
0.23465	54.82	7.779	47.62	23.55231	3.027678
0.23469	54.82	7.78	47.62	23.55391	3.027495
0.23474	54.81	7.781	47.63	23.5555	3.02731
0.23478	54.81	7.782	47.63	23.5571	3.027127
0.23482	54.81	7.783	47.64	23.5587	3.026943
0.23487	54.81	7.784	47.64	23.5603	3.02676
0.23491	54.81	7.785	47.64	23.56189	3.026575
0.23495	54.81	7.786	47.65	23.56349	3.026392
0.235	54.81	7.787	47.65	23.56509	3.026209
0.23504	54.81	7.788	47.65	23.56669	3.026026
0.23508	54.81	7.789	47.66	23.56829	3.025843
0.23513	54.81	7.79	47.66	23.56989	3.02566
0.23517	54.81	7.791	47.67	23.57149	3.025477
0.23521	54.81	7.792	47.67	23.57308	3.025293
0.23526	54.81	7.793	47.67	23.57468	3.02511
0.2353	54.81	7.794	47.68	23.57628	3.024927
0.23535	54.81	7.795	47.68	23.57788	3.024744
0.23539	54.81	7.796	47.68	23.57948	3.024561
0.23543	54.81	7.797	47.69	23.58108	3.024379
0.23548	54.81	7.798	47.69	23.58268	3.024196
0.23552	54.81	7.799	47.7	23.58429	3.024015
0.23556	54.81	7.8	47.7	23.58589	3.023832
0.23561	54.81	7.801	47.7	23.58749	3.02365
0.23565	54.81	7.802	47.71	23.58909	3.023467
0.23569	54.81	7.803	47.71	23.59069	3.023285
0.23574	54.81	7.804	47.71	23.59229	3.023102
0.23578	54.81	7.805	47.72	23.59389	3.02292
0.23583	54.81	7.806	47.72	23.5955	3.022739
0.23587	54.81	7.807	47.73	23.5971	3.022557
0.23591	54.81	7.808	47.73	23.5987	3.022374
0.23596	54.81	7.809	47.73	23.60031	3.022194
0.236	54.81	7.81	47.74	23.60191	3.022012
0.23604	54.81	7.811	47.74	23.60351	3.021829
0.23609	54.81	7.812	47.74	23.60512	3.021649
0.23613	54.81	7.813	47.75	23.60672	3.021467
0.23617	54.81	7.814	47.75	23.60832	3.021285
0.23622	54.81	7.815	47.76	23.60993	3.021104
0.23626	54.81	7.816	47.76	23.61153	3.020922
0.2363	54.8	7.817	47.76	23.61314	3.020742
0.23635	54.8	7.818	47.77	23.61474	3.02056
0.23639	54.8	7.819	47.77	23.61635	3.02038
0.23644	54.8	7.82	47.78	23.61795	3.020198
0.23648	54.8	7.821	47.78	23.61956	3.020018
0.23652	54.8	7.822	47.78	23.62116	3.019836
0.23657	54.8	7.823	47.79	23.62277	3.019656
0.23661	54.8	7.824	47.79	23.62438	3.019476
0.23665	54.8	7.825	47.79	23.62598	3.019295
0.2367	54.8	7.826	47.8	23.62759	3.019114
0.23674	54.8	7.827	47.8	23.6292	3.018934
0.23678	54.8	7.828	47.81	23.6308	3.018753
0.23683	54.8	7.829	47.81	23.63241	3.018573
0.23687	54.8	7.83	47.81	23.63402	3.018393
0.23692	54.8	7.831	47.82	23.63562	3.018212
0.23696	54.8	7.832	47.82	23.63723	3.018032
0.237	54.8	7.833	47.82	23.63884	3.017853
0.23705	54.8	7.834	47.83	23.64045	3.017673
0.23709	54.8	7.835	47.83	23.64206	3.017493
0.23713	54.8	7.836	47.84	23.64367	3.017314
0.23718	54.8	7.837	47.84	23.64528	3.017134
0.23722	54.8	7.838	47.84	23.64688	3.016953
0.23726	54.8	7.839	47.85	23.64849	3.016774
0.23731	54.8	7.84	47.85	23.6501	3.016594
0.23735	54.8	7.841	47.85	23.65171	3.016415
0.2374	54.8	7.842	47.86	23.65332	3.016236
0.23744	54.8	7.843	47.86	23.65493	3.016056
0.23748	54.8	7.844	47.87	23.65654	3.015877
0.23753	54.8	7.845	47.87	23.65816	3.015699
0.23757	54.8	7.846	47.87	23.65977	3.01552
0.23761	54.8	7.847	47.88	23.66138	3.015341
0.23766	54.8	7.848	47.88	23.66299	3.015162
0.2377	54.8	7.849	47.88	23.6646	3.014983
0.23774	54.79	7.85	47.89	23.66621	3.014804
0.23779	54.79	7.851	47.89	23.66782	3.014625
0.23783	54.79	7.852	47.9	23.66944	3.014447
0.23788	54.79	7.853	47.9	23.67105	3.014268
0.23792	54.79	7.854	47.9	23.67266	3.01409
0.23796	54.79	7.855	47.91	23.67427	3.013911
0.23801	54.79	7.856	47.91	23.67589	3.013733
0.23805	54.79	7.857	47.91	23.6775	3.013555
0.23809	54.79	7.858	47.92	23.67911	3.013376
0.23814	54.79	7.859	47.92	23.68073	3.013199
0.23818	54.79	7.86	47.93	23.68234	3.01302
0.23822	54.79	7.861	47.93	23.68396	3.012843
0.23827	54.79	7.862	47.93	23.68557	3.012665
0.23831	54.79	7.863	47.94	23.68719	3.012488
0.23836	54.79	7.864	47.94	23.6888	3.012309
0.2384	54.79	7.865	47.94	23.69042	3.012132
0.23844	54.79	7.866	47.95	23.69203	3.011954
0.23849	54.79	7.867	47.95	23.69365	3.011777
0.23853	54.79	7.868	47.96	23.69526	3.011599
0.23857	54.79	7.869	47.96	23.69688	3.011422
0.23862	54.79	7.87	47.96	23.69849	3.011244
0.23866	54.79	7.871	47.97	23.70011	3.011067
0.2387	54.79	7.872	47.97	23.70173	3.01089
0.23875	54.79	7.873	47.97	23.70334	3.010713
0.23879	54.79	7.874	47.98	23.70496	3.010536
0.23884	54.79	7.875	47.98	23.70658	3.010359
0.23888	54.79	7.876	47.99	23.7082	3.010183
0.23892	54.79	7.877	47.99	23.70981	3.010005
0.23897	54.79	7.878	47.99	23.71143	3.009829
0.23901	54.79	7.879	48	23.71305	3.009652
0.23905	54.78	7.88	48	23.71467	3.009476
0.2391	54.78	7.881	48	23.71629	3.0093
0.23914	54.78	7.882	48.01	23.71791	3.009123
0.23918	54.78	7.883	48.01	23.71953	3.008947
0.23923	54.78	7.884	48.02	23.72114	3.00877
0.23927	54.78	7.885	48.02	23.72276	3.008594
0.23932	54.78	7.886	48.02	23.72438	3.008417
0.23936	54.78	7.887	48.03	23.726	3.008241
0.2394	54.78	7.888	48.03	23.72762	3.008065
0.23945	54.78	7.889	48.03	23.72924	3.007889
0.23949	54.78	7.89	48.04	23.73086	3.007714
0.23953	54.78	7.891	48.04	23.73249	3.007539
0.23958	54.78	7.892	48.05	23.73411	3.007363
0.23962	54.78	7.893	48.05	23.73573	3.007187
0.23966	54.78	7.894	48.05	23.73735	3.007012
0.23971	54.78	7.895	48.06	23.73897	3.006836
0.23975	54.78	7.896	48.06	23.74059	3.00666
0.2398	54.78	7.897	48.06	23.74221	3.006485
0.23984	54.78	7.898	48.07	23.74384	3.00631
0.23988	54.78	7.899	48.07	23.74546	3.006135
0.23993	54.78	7.9	48.08	23.74708	3.005959
0.23997	54.78	7.901	48.08	23.7487	3.005784
0.24001	54.78	7.902	48.08	23.75033	3.00561
0.24006	54.78	7.903	48.09	23.75195	3.005435
0.2401	54.78	7.904	48.09	23.75358	3.005261
0.24014	54.78	7.905	48.09	23.7552	3.005085
0.24019	54.78	7.906	48.1	23.75682	3.00491
0.24023	54.78	7.907	48.1	23.75845	3.004736
0.24028	54.78	7.908	48.11	23.76007	3.004561
0.24032	54.77	7.909	48.11	23.7617	3.004387
0.24036	54.77	7.91	48.11	23.76332	3.004212
0.24041	54.77	7.911	48.12	23.76495	3.004039
0.24045	54.77	7.912	48.12	23.76657	3.003864
0.24049	54.77	7.913	48.12	23.7682	3.00369
0.24054	54.77	7.914	48.13	23.76982	3.003515
0.24058	54.77	7.915	48.13	23.77145	3.003342
0.24062	54.77	7.916	48.14	23.77308	3.003168
0.24067	54.77	7.917	48.14	23.7747	3.002994
0.24071	54.77	7.918	48.14	23.77633	3.00282
0.24076	54.77	7.919	48.15	23.77796	3.002647
0.2408	54.77	7.92	48.15	23.77958	3.002472
0.24084	54.77	7.921	48.15	23.78121	3.002299
0.24089	54.77	7.922	48.16	23.78284	3.002126
0.24093	54.77	7.923	48.16	23.78447	3.001953
0.24097	54.77	7.924	48.17	23.78609	3.001778
0.24102	54.77	7.925	48.17	23.78772	3.001605
0.24106	54.77	7.926	48.17	23.78935	3.001432
0.2411	54.77	7.927	48.18	23.79098	3.001259
0.24115	54.77	7.928	48.18	23.79261	3.001086
0.24119	54.77	7.929	48.18	23.79424	3.000913
0.24124	54.77	7.93	48.19	23.79587	3.00074
0.24128	54.77	7.931	48.19	23.7975	3.000567
0.24132	54.77	7.932	48.2	23.79913	3.000395
0.24137	54.77	7.933	48.2	23.80076	3.000222
0.24141	54.77	7.934	48.2	23.80239	3.000049
0.24145	54.76	7.935	48.21	23.80402	2.999876
0.2415	54.76	7.936	48.21	23.80565	2.999704
0.24154	54.76	7.937	48.21	23.80728	2.999531
0.24158	54.76	7.938	48.22	23.80891	2.999359
0.24163	54.76	7.939	48.22	23.81054	2.999186
0.24167	54.76	7.94	48.22	23.81217	2.999014
0.24172	54.76	7.941	48.23	23.8138	2.998841
0.24176	54.76	7.942	48.23	23.81544	2.99867
0.2418	54.76	7.943	48.24	23.81707	2.998498
0.24185	54.76	7.944	48.24	23.8187	2.998326
0.24189	54.76	7.945	48.24	23.82033	2.998154
0.24193	54.76	7.946	48.25	23.82197	2.997983
0.24198	54.76	7.947	48.25	23.8236	2.99781
0.24202	54.76	7.948	48.25	23.82523	2.997638
0.24207	54.76	7.949	48.26	23.82687	2.997468
0.24211	54.76	7.95	48.26	23.8285	2.997296
0.24215	54.76	7.951	48.27	23.83013	2.997124
0.2422	54.76	7.952	48.27	23.83177	2.996953
0.24224	54.76	7.953	48.27	23.8334	2.996781
0.24228	54.76	7.954	48.28	23.83504	2.996611
0.24233	54.76	7.955	48.28	23.83667	2.996439
0.24237	54.76	7.956	48.28	23.83831	2.996268
0.24241	54.76	7.957	48.29	23.83994	2.996097
0.24246	54.76	7.958	48.29	23.84158	2.995926
0.2425	54.76	7.959	48.3	23.84321	2.995754
0.24255	54.75	7.96	48.3	23.84485	2.995584
0.24259	54.75	7.961	48.3	23.84649	2.995414
0.24263	54.75	7.962	48.31	23.84812	2.995242
0.24268	54.75	7.963	48.31	23.84976	2.995072
0.24272	54.75	7.964	48.31	23.8514	2.994902
0.24276	54.75	7.965	48.32	23.85303	2.994731
0.24281	54.75	7.966	48.32	23.85467	2.994561
0.24285	54.75	7.967	48.33	23.85631	2.994391
0.2429	54.75	7.968	48.33	23.85794	2.994219
0.24294	54.75	7.969	48.33	23.85958	2.994049
0.24298	54.75	7.97	48.34	23.86122	2.99388
0.24303	54.75	7.971	48.34	23.86286	2.99371
0.24307	54.75	7.972	48.34	23.8645	2.99354
0.24311	54.75	7.973	48.35	23.86614	2.99337
0.24316	54.75	7.974	48.35	23.86778	2.9932
0.2432	54.75	7.975	48.36	23.86942	2.993031
0.24324	54.75	7.976	48.36	23.87105	2.99286
0.24329	54.75	7.977	48.36	23.87269	2.99269
0.24333	54.75	7.978	48.37	23.87433	2.992521
0.24338	54.75	7.979	48.37	23.87597	2.992351
0.24342	54.75	7.98	48.37	23.87761	2.992182
0.24346	54.75	7.981	48.38	23.87926	2.992014
0.24351	54.75	7.982	48.38	23.8809	2.991844
0.24355	54.75	7.983	48.38	23.88254	2.991675
0.24359	54.74	7.984	48.39	23.88418	2.991506
0.24364	54.74	7.985	48.39	23.88582	2.991336
0.24368	54.74	7.986	48.4	23.88746	2.991167
0.24373	54.74	7.987	48.4	23.8891	2.990998
0.24377	54.74	7.988	48.4	23.89075	2.99083
0.24381	54.74	7.989	48.41	23.89239	2.990661
0.24386	54.74	7.99	48.41	23.89403	2.990492
0.2439	54.74	7.991	48.41	23.89567	2.990323
0.24394	54.74	7.992	48.42	23.89732	2.990155
0.24399	54.74	7.993	48.42	23.89896	2.989986
0.24403	54.74	7.994	48.43	23.9006	2.989817
0.24407	54.74	7.995	48.43	23.90225	2.98965
0.24412	54.74	7.996	48.43	23.90389	2.989481
0.24416	54.74	7.997	48.44	23.90554	2.989313
0.24421	54.74	7.998	48.44	23.90718	2.989145
0.24425	54.74	7.999	48.44	23.90882	2.988976
0.24429	54.74	8	48.45	23.91047	2.988809
0.24434	54.74	8.001	48.45	23.91211	2.98864
0.24438	54.74	8.002	48.46	23.91376	2.988473
0.24442	54.74	8.003	48.46	23.91541	2.988306
0.24447	54.74	8.004	48.46	23.91705	2.988137
0.24451	54.74	8.005	48.47	23.9187	2.98797
0.24456	54.74	8.006	48.47	23.92034	2.987802
0.2446	54.74	8.007	48.48	23.92199	2.987635
0.24464	54.74	8.008	48.48	23.92364	2.987468
0.24469	54.74	8.009	48.48	23.92528	2.987299
0.24473	54.74	8.01	48.49	23.92693	2.987132
0.24477	54.74	8.011	48.49	23.92858	2.986965
0.24482	54.74	8.012	48.5	23.93022	2.986797
0.24486	54.74	8.013	48.5	23.93187	2.98663
0.2449	54.74	8.014	48.5	23.93352	2.986464
0.24495	54.74	8.015	48.51	23.93517	2.986297
0.24499	54.74	8.016	48.51	23.93682	2.98613
0.24504	54.74	8.017	48.52	23.93846	2.985962
0.24508	54.74	8.018	48.52	23.94011	2.985796
0.24512	54.74	8.019	48.52	23.94176	2.985629
0.24517	54.74	8.02	48.53	23.94341	2.985463
0.24521	54.74	8.021	48.53	23.94506	2.985296
0.24525	54.74	8.022	48.54	23.94671	2.98513
0.2453	54.74	8.023	48.54	23.94836	2.984963
0.24534	54.74	8.024	48.54	23.95001	2.984797
0.24539	54.74	8.025	48.55	23.95166	2.984631
0.24543	54.74	8.026	48.55	23.95331	2.984464
0.24547	54.74	8.027	48.55	23.95496	2.984298
0.24552	54.74	8.028	48.56	23.95661	2.984132
0.24556	54.74	8.029	48.56	23.95826	2.983966
0.2456	54.74	8.03	48.57	23.95991	2.9838
0.24565	54.74	8.031	48.57	23.96157	2.983635
0.24569	54.74	8.032	48.57	23.96322	2.983469
0.24574	54.74	8.033	48.58	23.96487	2.983303
0.24578	54.74	8.034	48.58	23.96652	2.983137
0.24582	54.74	8.035	48.59	23.96817	2.982971
0.24587	54.74	8.036	48.59	23.96983	2.982806
0.24591	54.74	8.037	48.59	23.97148	2.98264
0.24595	54.74	8.038	48.6	23.97313	2.982474
0.246	54.74	8.039	48.6	23.97478	2.982309
0.24604	54.74	8.04	48.61	23.97644	2.982144
0.24608	54.74	8.041	48.61	23.97809	2.981979
0.24613	54.74	8.042	48.61	23.97975	2.981814
0.24617	54.74	8.043	48.62	23.9814	2.981649
0.24622	54.74	8.044	48.62	23.98305	2.981483
0.24626	54.74	8.045	48.63	23.98471	2.981319
0.2463	54.74	8.046	48.63	23.98636	2.981153
0.24635	54.74	8.047	48.63	23.98802	2.980989
0.24639	54.74	8.048	48.64	23.98967	2.980824
0.24643	54.74	8.049	48.64	23.99133	2.98066
0.24648	54.74	8.05	48.65	23.99298	2.980494
0.24652	54.74	8.051	48.65	23.99464	2.98033
0.24657	54.74	8.052	48.65	23.9963	2.980166
0.24661	54.74	8.053	48.66	23.99795	2.980001
0.24665	54.74	8.054	48.66	23.99961	2.979837
0.2467	54.74	8.055	48.67	24.00126	2.979672
0.24674	54.74	8.056	48.67	24.00292	2.979508
0.24678	54.74	8.057	48.67	24.00458	2.979345
0.24683	54.74	8.058	48.68	24.00624	2.979181
0.24687	54.74	8.059	48.68	24.00789	2.979016
0.24691	54.74	8.06	48.69	24.00955	2.978852
0.24696	54.74	8.061	48.69	24.01121	2.978689
0.247	54.74	8.062	48.69	24.01287	2.978525
0.24705	54.74	8.063	48.7	24.01452	2.97836
0.24709	54.74	8.064	48.7	24.01618	2.978197
0.24713	54.74	8.065	48.7	24.01784	2.978033
0.24718	54.74	8.066	48.71	24.0195	2.97787
0.24722	54.74	8.067	48.71	24.02116	2.977707
0.24726	54.74	8.068	48.72	24.02282	2.977543
0.24731	54.74	8.069	48.72	24.02448	2.97738
0.24735	54.74	8.07	48.72	24.02614	2.977217
0.2474	54.74	8.071	48.73	24.0278	2.977054
0.24744	54.74	8.072	48.73	24.02946	2.97689
0.24748	54.74	8.073	48.74	24.03112	2.976727
0.24753	54.74	8.074	48.74	24.03278	2.976564
0.24757	54.74	8.075	48.74	24.03444	2.976401
0.24761	54.74	8.076	48.75	24.0361	2.976238
0.24766	54.74	8.077	48.75	24.03776	2.976075
0.2477	54.74	8.078	48.76	24.03943	2.975914
0.24775	54.74	8.079	48.76	24.04109	2.975751
0.24779	54.74	8.08	48.76	24.04275	2.975588
0.24783	54.74	8.081	48.77	24.04441	2.975425
0.24788	54.74	8.082	48.77	24.04607	2.975262
0.24792	54.74	8.083	48.78	24.04774	2.975101
0.24796	54.74	8.084	48.78	24.0494	2.974938
0.24801	54.74	8.085	48.78	24.05106	2.974776
0.24805	54.74	8.086	48.79	24.05273	2.974614
0.24809	54.74	8.087	48.79	24.05439	2.974452
0.24814	54.74	8.088	48.8	24.05605	2.974289
0.24818	54.74	8.089	48.8	24.05772	2.974128
0.24823	54.74	8.09	48.8	24.05938	2.973965
0.24827	54.74	8.091	48.81	24.06104	2.973803
0.24831	54.74	8.092	48.81	24.06271	2.973642
0.24836	54.74	8.093	48.82	24.06437	2.97348
0.2484	54.74	8.094	48.82	24.06604	2.973319
0.24844	54.74	8.095	48.82	24.0677	2.973156
0.24849	54.74	8.096	48.83	24.06937	2.972995
0.24853	54.74	8.097	48.83	24.07104	2.972834
0.24858	54.74	8.098	48.83	24.0727	2.972672
0.24862	54.74	8.099	48.84	24.07437	2.972511
0.24866	54.74	8.1	48.84	24.07603	2.972349
0.24871	54.74	8.101	48.85	24.0777	2.972189
0.24875	54.74	8.102	48.85	24.07937	2.972028
0.24879	54.74	8.103	48.85	24.08103	2.971866
0.24884	54.74	8.104	48.86	24.0827	2.971705
0.24888	54.74	8.105	48.86	24.08437	2.971545
0.24892	54.74	8.106	48.87	24.08604	2.971384
0.24897	54.74	8.107	48.87	24.0877	2.971222
0.24901	54.74	8.108	48.87	24.08937	2.971062
0.24906	54.74	8.109	48.88	24.09104	2.970901
0.2491	54.74	8.11	48.88	24.09271	2.970741
0.24914	54.74	8.111	48.89	24.09438	2.970581
0.24919	54.74	8.112	48.89	24.09605	2.97042
0.24923	54.74	8.113	48.89	24.09771	2.970259
0.24927	54.74	8.114	48.9	24.09938	2.970099
0.24932	54.74	8.115	48.9	24.10105	2.969938
0.24936	54.74	8.116	48.91	24.10272	2.969778
0.24941	54.74	8.117	48.91	24.10439	2.969618
0.24945	54.74	8.118	48.91	24.10606	2.969458
0.24949	54.74	8.119	48.92	24.10773	2.969298
0.24954	54.74	8.12	48.92	24.1094	2.969138
0.24958	54.74	8.121	48.93	24.11107	2.968978
0.24962	54.74	8.122	48.93	24.11275	2.968819
0.24967	54.74	8.123	48.93	24.11442	2.968659
0.24971	54.74	8.124	48.94	24.11609	2.9685
0.24976	54.74	8.125	48.94	24.11776	2.96834
0.2498	54.74	8.126	48.95	24.11943	2.96818
0.24984	54.74	8.127	48.95	24.1211	2.96802
0.24989	54.74	8.128	48.95	24.12278	2.967862
0.24993	54.74	8.129	48.96	24.12445	2.967702
0.24997	54.74	8.13	48.96	24.12612	2.967542
0.25002	54.74	8.131	48.96	24.1278	2.967384
0.25006	54.74	8.132	48.97	24.12947	2.967225
0.2501	54.74	8.133	48.97	24.13114	2.967065
0.25015	54.74	8.134	48.98	24.13282	2.966907
0.25019	54.74	8.135	48.98	24.13449	2.966747
0.25024	54.74	8.136	48.98	24.13616	2.966588
0.25028	54.74	8.137	48.99	24.13784	2.96643
0.25032	54.74	8.138	48.99	24.13951	2.966271
0.25037	54.74	8.139	49	24.14119	2.966113
0.25041	54.74	8.14	49	24.14286	2.965953
0.25045	54.74	8.141	49	24.14454	2.965795
0.2505	54.74	8.142	49.01	24.14621	2.965636
0.25054	54.74	8.143	49.01	24.14789	2.965478
0.25059	54.74	8.144	49.02	24.14956	2.965319
0.25063	54.74	8.145	49.02	24.15124	2.965161
0.25067	54.74	8.146	49.02	24.15292	2.965004
0.25072	54.74	8.147	49.03	24.15459	2.964845
0.25076	54.74	8.148	49.03	24.15627	2.964687
0.2508	54.74	8.149	49.04	24.15795	2.964529
0.25085	54.74	8.15	49.04	24.15962	2.964371
0.25089	54.74	8.151	49.04	24.1613	2.964213
0.25093	54.74	8.152	49.05	24.16298	2.964055
0.25098	54.74	8.153	49.05	24.16466	2.963898
0.25102	54.74	8.154	49.05	24.16633	2.963739
0.25107	54.74	8.155	49.06	24.16801	2.963582
0.25111	54.74	8.156	49.06	24.16969	2.963424
0.25115	54.74	8.157	49.07	24.17137	2.963267
0.2512	54.74	8.158	49.07	24.17305	2.96311
0.25124	54.74	8.159	49.07	24.17473	2.962953
0.25128	54.74	8.16	49.08	24.17641	2.962795
0.25133	54.74	8.161	49.08	24.17809	2.962638
0.25137	54.74	8.162	49.09	24.17977	2.962481
0.25142	54.74	8.163	49.09	24.18144	2.962323
0.25146	54.74	8.164	49.09	24.18313	2.962167
0.2515	54.74	8.165	49.1	24.18481	2.96201
0.25155	54.74	8.166	49.1	24.18649	2.961853
0.25159	54.74	8.167	49.11	24.18817	2.961696
0.25163	54.74	8.168	49.11	24.18985	2.961539
0.25168	54.74	8.169	49.11	24.19153	2.961382
0.25172	54.74	8.17	49.12	24.19321	2.961225
0.25177	54.74	8.171	49.12	24.19489	2.961068
0.25181	54.74	8.172	49.13	24.19657	2.960912
0.25185	54.74	8.173	49.13	24.19826	2.960756
0.2519	54.74	8.174	49.13	24.19994	2.960599
0.25194	54.74	8.175	49.14	24.20162	2.960443
0.25198	54.74	8.176	49.14	24.2033	2.960286
0.25203	54.74	8.177	49.14	24.20499	2.960131
0.25207	54.74	8.178	49.15	24.20667	2.959974
0.25211	54.74	8.179	49.15	24.20835	2.959818
0.25216	54.74	8.18	49.16	24.21004	2.959663
0.2522	54.74	8.181	49.16	24.21172	2.959506
0.25225	54.74	8.182	49.16	24.21341	2.959351
0.25229	54.73	8.183	49.17	24.21509	2.959195
0.25233	54.73	8.184	49.17	24.21677	2.959038
0.25238	54.73	8.185	49.18	24.21846	2.958883
0.25242	54.73	8.186	49.18	24.22014	2.958727
0.25246	54.73	8.187	49.18	24.22183	2.958572
0.25251	54.73	8.188	49.19	24.22351	2.958416
0.25255	54.73	8.189	49.19	24.2252	2.958261
0.2526	54.73	8.19	49.2	24.22689	2.958106
0.25264	54.73	8.191	49.2	24.22857	2.95795
0.25268	54.73	8.192	49.2	24.23026	2.957795
0.25273	54.73	8.193	49.21	24.23194	2.957639
0.25277	54.73	8.194	49.21	24.23363	2.957485

0.27356	54.61	8.669	51.03	25.06017	2.89078
0.2736	54.6	8.67	51.04	25.06197	2.890654
0.27365	54.6	8.671	51.04	25.06376	2.890527
0.27369	54.6	8.672	51.05	25.06556	2.890401
0.27373	54.6	8.673	51.05	25.06735	2.890274
0.27378	54.6	8.674	51.05	25.06915	2.890149
0.27382	54.6	8.675	51.06	25.07094	2.890022
0.27387	54.6	8.676	51.06	25.07274	2.889896
0.27391	54.6	8.677	51.06	25.07454	2.889771
0.27395	54.6	8.678	51.07	25.07633	2.889644
0.274	54.6	8.679	51.07	25.07813	2.889518
0.27404	54.6	8.68	51.08	25.07993	2.889393
0.27409	54.6	8.681	51.08	25.08172	2.889266
0.27413	54.6	8.682	51.08	25.08352	2.889141
0.27417	54.6	8.683	51.09	25.08532	2.889015
0.27422	54.6	8.684	51.09	25.08712	2.88889
0.27426	54.6	8.685	51.1	25.08892	2.888765
0.27431	54.6	8.686	51.1	25.09071	2.888638
0.27435	54.6	8.687	51.1	25.09251	2.888513
0.27439	54.6	8.688	51.11	25.09431	2.888387
0.27444	54.6	8.689	51.11	25.09611	2.888262
0.27448	54.6	8.69	51.11	25.09791	2.888137
0.27452	54.6	8.691	51.12	25.09971	2.888012
0.27457	54.6	8.692	51.12	25.10151	2.887887
0.27461	54.59	8.693	51.13	25.10331	2.887761
0.27466	54.59	8.694	51.13	25.10511	2.887636
0.2747	54.59	8.695	51.13	25.10691	2.887511
0.27474	54.59	8.696	51.14	25.10871	2.887386
0.27479	54.59	8.697	51.14	25.11051	2.887261
0.27483	54.59	8.698	51.14	25.11231	2.887136
0.27488	54.59	8.699	51.15	25.11412	2.887012
0.27492	54.59	8.7	51.15	25.11592	2.886887
0.27496	54.59	8.701	51.16	25.11772	2.886762
0.27501	54.59	8.702	51.16	25.11952	2.886638
0.27505	54.59	8.703	51.16	25.12133	2.886514
0.2751	54.59	8.704	51.17	25.12313	2.886389
0.27514	54.59	8.705	51.17	25.12493	2.886264
0.27518	54.59	8.706	51.17	25.12673	2.886139
0.27523	54.59	8.707	51.18	25.12854	2.886016
0.27527	54.59	8.708	51.18	25.13034	2.885891
0.27531	54.59	8.709	51.19	25.13215	2.885768
0.27536	54.59	8.71	51.19	25.13395	2.885643
0.2754	54.59	8.711	51.19	25.13575	2.885518
0.27545	54.59	8.712	51.2	25.13756	2.885395
0.27549	54.59	8.713	51.2	25.13936	2.88527
0.27553	54.58	8.714	51.2	25.14117	2.885147
0.27558	54.58	8.715	51.21	25.14297	2.885022
0.27562	54.58	8.716	51.21	25.14478	2.884899
0.27567	54.58	8.717	51.22	25.14659	2.884776
0.27571	54.58	8.718	51.22	25.14839	2.884651
0.27575	54.58	8.719	51.22	25.1502	2.884528
0.2758	54.58	8.72	51.23	25.15201	2.884405
0.27584	54.58	8.721	51.23	25.15381	2.88428
0.27589	54.58	8.722	51.23	25.15562	2.884157
0.27593	54.58	8.723	51.24	25.15743	2.884034
0.27597	54.58	8.724	51.24	25.15923	2.88391
0.27602	54.58	8.725	51.25	25.16104	2.883787
0.27606	54.58	8.726	51.25	25.16285	2.883664
0.2761	54.58	8.727	51.25	25.16466	2.883541
0.27615	54.58	8.728	51.26	25.16647	2.883418
0.27619	54.58	8.729	51.26	25.16828	2.883295
0.27624	54.58	8.73	51.26	25.17008	2.883171
0.27628	54.58	8.731	51.27	25.17189	2.883048
0.27632	54.58	8.732	51.27	25.1737	2.882925
0.27637	54.58	8.733	51.28	25.17551	2.882802
0.27641	54.58	8.734	51.28	25.17732	2.882679
0.27646	54.58	8.735	51.28	25.17913	2.882556
0.2765	54.57	8.736	51.29	25.18094	2.882434
0.27654	54.57	8.737	51.29	25.18275	2.882311
0.27659	54.57	8.738	51.29	25.18456	2.882188
0.27663	54.57	8.739	51.3	25.18638	2.882067
0.27668	54.57	8.74	51.3	25.18819	2.881944
0.27672	54.57	8.741	51.31	25.19	2.881821
0.27676	54.57	8.742	51.31	25.19181	2.881699
0.27681	54.57	8.743	51.31	25.19362	2.881576
0.27685	54.57	8.744	51.32	25.19543	2.881454
0.27689	54.57	8.745	51.32	25.19725	2.881332
0.27694	54.57	8.746	51.32	25.19906	2.88121
0.27698	54.57	8.747	51.33	25.20087	2.881087
0.27703	54.57	8.748	51.33	25.20269	2.880966
0.27707	54.57	8.749	51.34	25.2045	2.880844
0.27711	54.57	8.75	51.34	25.20631	2.880721
0.27716	54.57	8.751	51.34	25.20813	2.8806
0.2772	54.57	8.752	51.35	25.20994	2.880478
0.27725	54.57	8.753	51.35	25.21176	2.880356
0.27729	54.57	8.754	51.35	25.21357	2.880234
0.27733	54.56	8.755	51.36	25.21539	2.880113
0.27738	54.56	8.756	51.36	25.2172	2.879991
0.27742	54.56	8.757	51.37	25.21902	2.87987
0.27747	54.56	8.758	51.37	25.22083	2.879748
0.27751	54.56	8.759	51.37	25.22265	2.879627
0.27755	54.56	8.76	51.38	25.22446	2.879505
0.2776	54.56	8.761	51.38	25.22628	2.879384
0.27764	54.56	8.762	51.38	25.2281	2.879263
0.27769	54.56	8.763	51.39	25.22991	2.879141
0.27773	54.56	8.764	51.39	25.23173	2.87902
0.27777	54.56	8.765	51.4	25.23355	2.878899
0.27782	54.56	8.766	51.4	25.23537	2.878778
0.27786	54.56	8.767	51.4	25.23718	2.878656
0.27791	54.56	8.768	51.41	25.239	2.878536
0.27795	54.56	8.769	51.41	25.24082	2.878415
0.27799	54.56	8.77	51.41	25.24264	2.878294
0.27804	54.56	8.771	51.42	25.24446	2.878174
0.27808	54.56	8.772	51.42	25.24628	2.878053
0.27812	54.56	8.773	51.43	25.2481	2.877932
0.27817	54.56	8.774	51.43	25.24991	2.877811
0.27821	54.55	8.775	51.43	25.25173	2.87769
0.27826	54.55	8.776	51.44	25.25355	2.87757
0.2783	54.55	8.777	51.44	25.25537	2.877449
0.27834	54.55	8.778	51.44	25.25719	2.877329
0.27839	54.55	8.779	51.45	25.25902	2.877209
0.27843	54.55	8.78	51.45	25.26084	2.877089
0.27848	54.55	8.781	51.46	25.26266	2.876968
0.27852	54.55	8.782	51.46	25.26448	2.876848
0.27856	54.55	8.783	51.46	25.2663	2.876728
0.27861	54.55	8.784	51.47	25.26812	2.876607
0.27865	54.55	8.785	51.47	25.26994	2.876487
0.2787	54.55	8.786	51.47	25.27177	2.876368
0.27874	54.55	8.787	51.48	25.27359	2.876248
0.27878	54.55	8.788	51.48	25.27541	2.876128
0.27883	54.55	8.789	51.49	25.27724	2.876009
0.27887	54.55	8.79	51.49	25.27906	2.875889
0.27892	54.55	8.791	51.49	25.28088	2.875768
0.27896	54.55	8.792	51.5	25.28271	2.875649
0.279	54.55	8.793	51.5	25.28453	2.875529
0.27905	54.54	8.794	51.5	25.28635	2.875409
0.27909	54.54	8.795	51.51	25.28818	2.875291
0.27914	54.54	8.796	51.51	25.29	2.875171
0.27918	54.54	8.797	51.52	25.29183	2.875052
0.27922	54.54	8.798	51.52	25.29365	2.874932
0.27927	54.54	8.799	51.52	25.29548	2.874813
0.27931	54.54	8.8	51.53	25.2973	2.874693
0.27936	54.54	8.801	51.53	25.29913	2.874574
0.2794	54.54	8.802	51.53	25.30096	2.874456
0.27944	54.54	8.803	51.54	25.30278	2.874336
0.27949	54.54	8.804	51.54	25.30461	2.874217
0.27953	54.54	8.805	51.55	25.30644	2.874099
0.27957	54.54	8.806	51.55	25.30826	2.873979
0.27962	54.54	8.807	51.55	25.31009	2.873861
0.27966	54.54	8.808	51.56	25.31192	2.873742
0.27971	54.54	8.809	51.56	25.31375	2.873624
0.27975	54.54	8.81	51.56	25.31557	2.873504
0.27979	54.54	8.811	51.57	25.3174	2.873386
0.27984	54.54	8.812	51.57	25.31923	2.873267
0.27988	54.53	8.813	51.58	25.32106	2.873149
0.27993	54.53	8.814	51.58	25.32289	2.87303
0.27997	54.53	8.815	51.58	25.32472	2.872912
0.28001	54.53	8.816	51.59	25.32655	2.872794
0.28006	54.53	8.817	51.59	25.32838	2.872676
0.2801	54.53	8.818	51.59	25.33021	2.872557
0.28015	54.53	8.819	51.6	25.33204	2.872439
0.28019	54.53	8.82	51.6	25.33387	2.872321
0.28023	54.53	8.821	51.6	25.3357	2.872203
0.28028	54.53	8.822	51.61	25.33753	2.872085
0.28032	54.53	8.823	51.61	25.33936	2.871966
0.28037	54.53	8.824	51.62	25.34119	2.871848
0.28041	54.53	8.825	51.62	25.34303	2.871731
0.28045	54.53	8.826	51.62	25.34486	2.871613
0.2805	54.53	8.827	51.63	25.34669	2.871495
0.28054	54.53	8.828	51.63	25.34852	2.871377
0.28059	54.53	8.829	51.63	25.35035	2.871259
0.28063	54.53	8.83	51.64	25.35219	2.871143
0.28067	54.52	8.831	51.64	25.35402	2.871025
0.28072	54.52	8.832	51.65	25.35585	2.870907
0.28076	54.52	8.833	51.65	25.35769	2.87079
0.28081	54.52	8.834	51.65	25.35952	2.870672
0.28085	54.52	8.835	51.66	25.36136	2.870556
0.28089	54.52	8.836	51.66	25.36319	2.870438
0.28094	54.52	8.837	51.66	25.36502	2.87032
0.28098	54.52	8.838	51.67	25.36686	2.870204
0.28103	54.52	8.839	51.67	25.36869	2.870086
0.28107	54.52	8.84	51.68	25.37053	2.869969
0.28111	54.52	8.841	51.68	25.37237	2.869853
0.28116	54.52	8.842	51.68	25.3742	2.869735
0.2812	54.52	8.843	51.69	25.37604	2.869619
0.28125	54.52	8.844	51.69	25.37787	2.869501
0.28129	54.52	8.845	51.69	25.37971	2.869385
0.28133	54.52	8.846	51.7	25.38155	2.869269
0.28138	54.52	8.847	51.7	25.38338	2.869151
0.28142	54.52	8.848	51.71	25.38522	2.869035
0.28147	54.51	8.849	51.71	25.38706	2.868919
0.28151	54.51	8.85	51.71	25.3889	2.868802
0.28155	54.51	8.851	51.72	25.39073	2.868685
0.2816	54.51	8.852	51.72	25.39257	2.868569
0.28164	54.51	8.853	51.72	25.39441	2.868453
0.28169	54.51	8.854	51.73	25.39625	2.868336
0.28173	54.51	8.855	51.73	25.39809	2.86822
0.28177	54.51	8.856	51.74	25.39993	2.868104
0.28182	54.51	8.857	51.74	25.40177	2.867988
0.28186	54.51	8.858	51.74	25.40361	2.867872
0.28191	54.51	8.859	51.75	25.40545	2.867756
0.28195	54.51	8.86	51.75	25.40729	2.86764
0.28199	54.51	8.861	51.75	25.40913	2.867524
0.28204	54.51	8.862	51.76	25.41097	2.867408
0.28208	54.51	8.863	51.76	25.41281	2.867292
0.28213	54.51	8.864	51.77	25.41465	2.867176
0.28217	54.51	8.865	51.77	25.41649	2.86706
0.28221	54.51	8.866	51.77	25.41833	2.866945
0.28226	54.5	8.867	51.78	25.42018	2.86683
0.2823	54.5	8.868	51.78	25.42202	2.866714
0.28235	54.5	8.869	51.78	25.42386	2.866598
0.28239	54.5	8.87	51.79	25.4257	2.866483
0.28243	54.5	8.871	51.79	25.42755	2.866368
0.28248	54.5	8.872	51.79	25.42939	2.866252
0.28252	54.5	8.873	51.8	25.43123	2.866137
0.28257	54.5	8.874	51.8	25.43308	2.866022
0.28261	54.5	8.875	51.81	25.43492	2.865906
0.28265	54.5	8.876	51.81	25.43676	2.865791
0.2827	54.5	8.877	51.81	25.43861	2.865676
0.28274	54.5	8.878	51.82	25.44045	2.865561
0.28279	54.5	8.879	51.82	25.4423	2.865447
0.28283	54.5	8.88	51.82	25.44414	2.865331
0.28287	54.5	8.881	51.83	25.44599	2.865217
0.28292	54.5	8.882	51.83	25.44783	2.865101
0.28296	54.5	8.883	51.84	25.44968	2.864987
0.28301	54.49	8.884	51.84	25.45152	2.864872
0.28305	54.49	8.885	51.84	25.45337	2.864757
0.28309	54.49	8.886	51.85	25.45522	2.864643
0.28314	54.49	8.887	51.85	25.45706	2.864528
0.28318	54.49	8.888	51.85	25.45891	2.864414
0.28323	54.49	8.889	51.86	25.46076	2.8643
0.28327	54.49	8.89	51.86	25.46261	2.864186
0.28331	54.49	8.891	51.87	25.46445	2.86407
0.28336	54.49	8.892	51.87	25.4663	2.863956
0.2834	54.49	8.893	51.87	25.46815	2.863842
0.28345	54.49	8.894	51.88	25.47	2.863728
0.28349	54.49	8.895	51.88	25.47185	2.863614
0.28353	54.49	8.896	51.88	25.4737	2.8635
0.28358	54.49	8.897	51.89	25.47554	2.863385
0.28362	54.49	8.898	51.89	25.47739	2.863272
0.28367	54.49	8.899	51.9	25.47924	2.863158
0.28371	54.49	8.9	51.9	25.48109	2.863044
0.28375	54.49	8.901	51.9	25.48294	2.86293
0.2838	54.48	8.902	51.91	25.48479	2.862816
0.28384	54.48	8.903	51.91	25.48665	2.862704
0.28389	54.48	8.904	51.91	25.4885	2.86259
0.28393	54.48	8.905	51.92	25.49035	2.862476
0.28397	54.48	8.906	51.92	25.4922	2.862362
0.28402	54.48	8.907	51.92	25.49405	2.862249
0.28406	54.48	8.908	51.93	25.4959	2.862135
0.28411	54.48	8.909	51.93	25.49775	2.862022
0.28415	54.48	8.91	51.94	25.49961	2.861909
0.28419	54.48	8.911	51.94	25.50146	2.861796
0.28424	54.48	8.912	51.94	25.50331	2.861682
0.28428	54.48	8.913	51.95	25.50516	2.861568
0.28433	54.48	8.914	51.95	25.50702	2.861456
0.28437	54.48	8.915	51.95	25.50887	2.861343
0.28441	54.48	8.916	51.96	25.51073	2.86123
0.28446	54.47	8.917	51.96	25.51258	2.861117
0.2845	54.47	8.918	51.97	25.51443	2.861004
0.28455	54.47	8.919	51.97	25.51629	2.860891
0.28459	54.47	8.92	51.97	25.51814	2.860778
0.28463	54.47	8.921	51.98	25.52	2.860666
0.28468	54.47	8.922	51.98	25.52185	2.860553
0.28472	54.47	8.923	51.98	25.52371	2.86044
0.28477	54.47	8.924	51.99	25.52556	2.860327
0.28481	54.47	8.925	51.99	25.52742	2.860215
0.28485	54.47	8.926	52	25.52928	2.860103
0.2849	54.47	8.927	52	25.53113	2.85999
0.28494	54.47	8.928	52	25.53299	2.859878
0.28499	54.47	8.929	52.01	25.53485	2.859766
0.28503	54.47	8.93	52.01	25.5367	2.859653
0.28507	54.47	8.931	52.01	25.53856	2.859541
0.28512	54.47	8.932	52.02	25.54042	2.859429
0.28516	54.47	8.933	52.02	25.54228	2.859317
0.28521	54.46	8.934	52.02	25.54414	2.859205
0.28525	54.46	8.935	52.03	25.54599	2.859092
0.28529	54.46	8.936	52.03	25.54785	2.858981
0.28534	54.46	8.937	52.04	25.54971	2.858869
0.28538	54.46	8.938	52.04	25.55157	2.858757
0.28543	54.46	8.939	52.04	25.55343	2.858645
0.28547	54.46	8.94	52.05	25.55529	2.858534
0.28552	54.46	8.941	52.05	25.55715	2.858422
0.28556	54.46	8.942	52.05	25.55901	2.85831
0.2856	54.46	8.943	52.06	25.56087	2.858199
0.28565	54.46	8.944	52.06	25.56273	2.858087
0.28569	54.46	8.945	52.07	25.56459	2.857975
0.28574	54.46	8.946	52.07	25.56645	2.857864
0.28578	54.46	8.947	52.07	25.56832	2.857753
0.28582	54.46	8.948	52.08	25.57018	2.857642
0.28587	54.45	8.949	52.08	25.57204	2.85753
0.28591	54.45	8.95	52.08	25.5739	2.857419
0.28596	54.45	8.951	52.09	25.57576	2.857308
0.286	54.45	8.952	52.09	25.57763	2.857197
0.28604	54.45	8.953	52.09	25.57949	2.857086
0.28609	54.45	8.954	52.1	25.58135	2.856975
0.28613	54.45	8.955	52.1	25.58322	2.856864
0.28618	54.45	8.956	52.11	25.58508	2.856753
0.28622	54.45	8.957	52.11	25.58694	2.856642
0.28626	54.45	8.958	52.11	25.58881	2.856532
0.28631	54.45	8.959	52.12	25.59067	2.85642
0.28635	54.45	8.96	52.12	25.59254	2.85631
0.2864	54.45	8.961	52.12	25.5944	2.856199
0.28644	54.45	8.962	52.13	25.59627	2.856089
0.28648	54.45	8.963	52.13	25.59813	2.855978
0.28653	54.45	8.964	52.14	25.6	2.855868
0.28657	54.44	8.965	52.14	25.60186	2.855757
0.28662	54.44	8.966	52.14	25.60373	2.855647
0.28666	54.44	8.967	52.15	25.6056	2.855537
0.2867	54.44	8.968	52.15	25.60746	2.855426
0.28675	54.44	8.969	52.15	25.60933	2.855316
0.28679	54.44	8.97	52.16	25.6112	2.855206
0.28684	54.44	8.971	52.16	25.61306	2.855095
0.28688	54.44	8.972	52.17	25.61493	2.854986
0.28693	54.44	8.973	52.17	25.6168	2.854876
0.28697	54.44	8.974	52.17	25.61867	2.854766
0.28701	54.44	8.975	52.18	25.62054	2.854656
0.28706	54.44	8.976	52.18	25.6224	2.854545
0.2871	54.44	8.977	52.18	25.62427	2.854436
0.28715	54.44	8.978	52.19	25.62614	2.854326
0.28719	54.44	8.979	52.19	25.62801	2.854217
0.28723	54.44	8.98	52.19	25.62988	2.854107
0.28728	54.43	8.981	52.2	25.63175	2.853997
0.28732	54.43	8.982	52.2	25.63362	2.853888
0.28737	54.43	8.983	52.21	25.63549	2.853778
0.28741	54.43	8.984	52.21	25.63736	2.853669
0.28745	54.43	8.985	52.21	25.63923	2.853559
0.2875	54.43	8.986	52.22	25.6411	2.85345
0.28754	54.43	8.987	52.22	25.64297	2.85334
0.28759	54.43	8.988	52.22	25.64485	2.853232
0.28763	54.43	8.989	52.23	25.64672	2.853123
0.28767	54.43	8.99	52.23	25.64859	2.853013
0.28772	54.43	8.991	52.24	25.65046	2.852904
0.28776	54.43	8.992	52.24	25.65233	2.852795
0.28781	54.43	8.993	52.24	25.65421	2.852687
0.28785	54.43	8.994	52.25	25.65608	2.852577
0.2879	54.43	8.995	52.25	25.65795	2.852468
0.28794	54.42	8.996	52.25	25.65983	2.85236
0.28798	54.42	8.997	52.26	25.6617	2.852251
0.28803	54.42	8.998	52.26	25.66357	2.852142
0.28807	54.42	8.999	52.26	25.66545	2.852034
0.28812	54.42	9	52.27	25.66732	2.851924
0.28816	54.42	9.001	52.27	25.6692	2.851816
0.2882	54.42	9.002	52.28	25.67107	2.851707
0.28825	54.42	9.003	52.28	25.67295	2.851599
0.28829	54.42	9.004	52.28	25.67482	2.85149
0.28834	54.42	9.005	52.29	25.6767	2.851383
0.28838	54.42	9.006	52.29	25.67858	2.851275
0.28842	54.42	9.007	52.29	25.68045	2.851166
0.28847	54.42	9.008	52.3	25.68233	2.851058
0.28851	54.42	9.009	52.3	25.68421	2.85095
0.28856	54.42	9.01	52.3	25.68608	2.850841
0.2886	54.41	9.011	52.31	25.68796	2.850734
0.28864	54.41	9.012	52.31	25.68984	2.850626
0.28869	54.41	9.013	52.32	25.69171	2.850517
0.28873	54.41	9.014	52.32	25.69359	2.850409
0.28878	54.41	9.015	52.32	25.69547	2.850302
0.28882	54.41	9.016	52.33	25.69735	2.850194
0.28887	54.41	9.017	52.33	25.69923	2.850087
0.28891	54.41	9.018	52.33	25.70111	2.849979
0.28895	54.41	9.019	52.34	25.70299	2.849871
0.289	54.41	9.02	52.34	25.70487	2.849764
0.28904	54.41	9.021	52.35	25.70675	2.849656
0.28909	54.41	9.022	52.35	25.70863	2.849549
0.28913	54.41	9.023	52.35	25.71051	2.849441
0.28917	54.41	9.024	52.36	25.71239	2.849334
0.28922	54.41	9.025	52.36	25.71427	2.849227
0.28926	54.4	9.026	52.36	25.71615	2.849119
0.28931	54.4	9.027	52.37	25.71803	2.849012
0.28935	54.4	9.028	52.37	25.71991	2.848905
0.2894	54.4	9.029	52.37	25.72179	2.848797
0.28944	54.4	9.03	52.38	25.72367	2.84869
0.28948	54.4	9.031	52.38	25.72556	2.848584
0.28953	54.4	9.032	52.39	25.72744	2.848477
0.28957	54.4	9.033	52.39	25.72932	2.848369
0.28962	54.4	9.034	52.39	25.7312	2.848262
0.28966	54.4	9.035	52.4	25.73309	2.848156
0.2897	54.4	9.036	52.4	25.73497	2.848049
0.28975	54.4	9.037	52.4	25.73685	2.847942
0.28979	54.4	9.038	52.41	25.73874	2.847836
0.28984	54.4	9.039	52.41	25.74062	2.847729
0.28988	54.39	9.04	52.42	25.74251	2.847623
0.28992	54.39	9.041	52.42	25.74439	2.847516
0.28997	54.39	9.042	52.42	25.74628	2.84741
0.29001	54.39	9.043	52.43	25.74816	2.847303
0.29006	54.39	9.044	52.43	25.75005	2.847197
0.2901	54.39	9.045	52.43	25.75193	2.84709
0.29015	54.39	9.046	52.44	25.75382	2.846984
0.29019	54.39	9.047	52.44	25.75571	2.846879
0.29023	54.39	9.048	52.44	25.75759	2.846772
0.29028	54.39	9.049	52.45	25.75948	2.846666
0.29032	54.39	9.05	52.45	25.76137	2.84656
0.29037	54.39	9.051	52.46	25.76325	2.846453
0.29041	54.39	9.052	52.46	25.76514	2.846348
0.29045	54.39	9.053	52.46	25.76703	2.846242
0.2905	54.39	9.054	52.47	25.76892	2.846137
0.29054	54.38	9.055	52.47	25.7708	2.84603
0.29059	54.38	9.056	52.47	25.77269	2.845924
0.29063	54.38	9.057	52.48	25.77458	2.845819
0.29068	54.38	9.058	52.48	25.77647	2.845713
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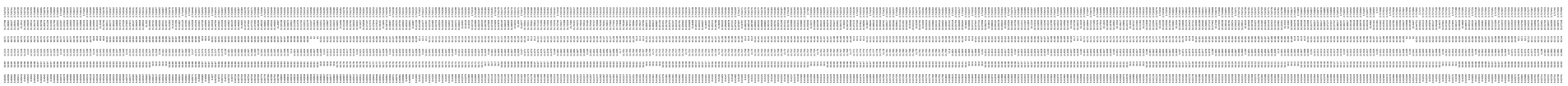

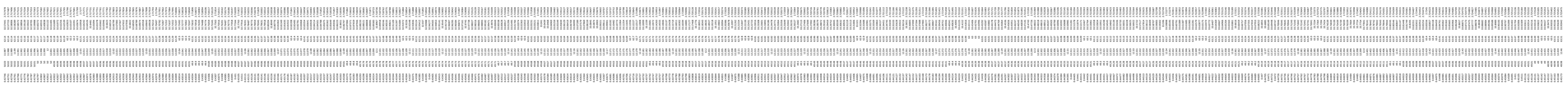

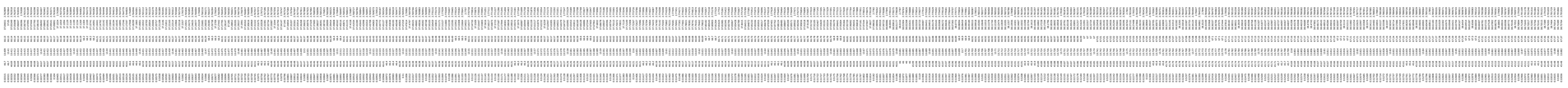

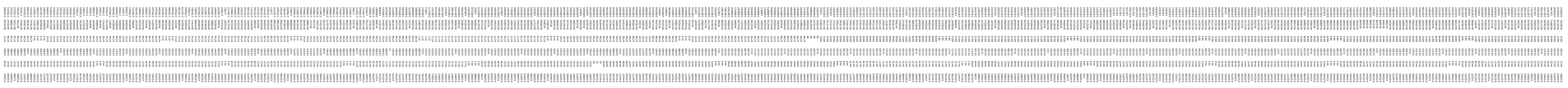

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0.60023	42.41	15.007	70.15	43.36848	2.889883
0.60029	42.41	15.008	70.15	43.37295	2.889989
0.60036	42.41	15.009	70.15	43.37743	2.890095
0.60043	42.4	15.01	70.16	43.3819	2.8902
0.60049	42.4	15.011	70.16	43.38638	2.890306
0.60056	42.4	15.012	70.16	43.39086	2.890412
0.60062	42.39	15.013	70.16	43.39533	2.890517
0.60069	42.39	15.014	70.17	43.39981	2.890623
0.60076	42.39	15.015	70.17	43.40429	2.890729
0.60082	42.39	15.016	70.17	43.40877	2.890834
0.60089	42.38	15.017	70.17	43.41325	2.89094
0.60095	42.38	15.018	70.18	43.41773	2.891046
0.60102	42.38	15.019	70.18	43.42221	2.891152
0.60108	42.37	15.02	70.18	43.42669	2.891258
0.60115	42.37	15.021	70.18	43.43118	2.891364
0.60122	42.37	15.022	70.18	43.43566	2.89147
0.60128	42.37	15.023	70.19	43.44015	2.891576
0.60135	42.36	15.024	70.19	43.44463	2.891682
0.60141	42.36	15.025	70.19	43.44912	2.891788
0.60148	42.36	15.026	70.19	43.4536	2.891894
0.60154	42.36	15.027	70.2	43.45809	2.892
0.60161	42.35	15.028	70.2	43.46258	2.892107
0.60168	42.35	15.029	70.2	43.46707	2.892213
0.60174	42.35	15.03	70.2	43.47156	2.892319
0.60181	42.34	15.031	70.21	43.47605	2.892426
0.60187	42.34	15.032	70.21	43.48054	2.892532
0.60194	42.34	15.033	70.21	43.48503	2.892638
0.60201	42.34	15.034	70.21	43.48952	2.892744
0.60207	42.33	15.035	70.22	43.49401	2.892851
0.60214	42.33	15.036	70.22	43.49851	2.892958
0.6022	42.33	15.037	70.22	43.503	2.893064
0.60227	42.32	15.038	70.22	43.5075	2.893171
0.60234	42.32	15.039	70.22	43.51199	2.893277
0.6024	42.32	15.04	70.23	43.51649	2.893384
0.60247	42.32	15.041	70.23	43.52099	2.89349
0.60253	42.31	15.042	70.23	43.52549	2.893597
0.6026	42.31	15.043	70.23	43.52998	2.893703
0.60267	42.31	15.044	70.24	43.53448	2.89381
0.60273	42.3	15.045	70.24	43.53898	2.893917
0.6028	42.3	15.046	70.24	43.54348	2.894024
0.60286	42.3	15.047	70.24	43.54799	2.894131
0.60293	42.3	15.048	70.25	43.55249	2.894238
0.603	42.29	15.049	70.25	43.55699	2.894344
0.60306	42.29	15.05	70.25	43.5615	2.894452
0.60313	42.29	15.051	70.25	43.566	2.894559
0.60319	42.28	15.052	70.26	43.57051	2.894666
0.60326	42.28	15.053	70.26	43.57501	2.894772
0.60333	42.28	15.054	70.26	43.57952	2.89488
0.60339	42.28	15.055	70.26	43.58403	2.894987
0.60346	42.27	15.056	70.27	43.58853	2.895094
0.60352	42.27	15.057	70.27	43.59304	2.895201
0.60359	42.27	15.058	70.27	43.59755	2.895308
0.60366	42.27	15.059	70.27	43.60206	2.895415
0.60372	42.26	15.06	70.27	43.60657	2.895523
0.60379	42.26	15.061	70.28	43.61109	2.89563
0.60385	42.26	15.062	70.28	43.6156	2.895738
0.60392	42.25	15.063	70.28	43.62011	2.895845
0.60399	42.25	15.064	70.28	43.62463	2.895953
0.60405	42.25	15.065	70.29	43.62914	2.89606
0.60412	42.25	15.066	70.29	43.63366	2.896168
0.60418	42.24	15.067	70.29	43.63817	2.896275
0.60425	42.24	15.068	70.29	43.64269	2.896382
0.60432	42.24	15.069	70.3	43.64721	2.89649
0.60438	42.23	15.07	70.3	43.65172	2.896597
0.60445	42.23	15.071	70.3	43.65624	2.896705
0.60452	42.23	15.072	70.3	43.66076	2.896813
0.60458	42.23	15.073	70.31	43.66528	2.89692
0.60465	42.22	15.074	70.31	43.6698	2.897028
0.60471	42.22	15.075	70.31	43.67433	2.897136
0.60478	42.22	15.076	70.31	43.67885	2.897244
0.60485	42.21	15.077	70.31	43.68337	2.897352
0.60491	42.21	15.078	70.32	43.6879	2.89746
0.60498	42.21	15.079	70.32	43.69242	2.897567
0.60505	42.21	15.08	70.32	43.69695	2.897676
0.60511	42.2	15.081	70.32	43.70147	2.897783
0.60518	42.2	15.082	70.33	43.706	2.897892
0.60524	42.2	15.083	70.33	43.71053	2.898
0.60531	42.19	15.084	70.33	43.71506	2.898108
0.60538	42.19	15.085	70.33	43.71959	2.898216
0.60544	42.19	15.086	70.34	43.72412	2.898324
0.60551	42.19	15.087	70.34	43.72865	2.898432
0.60558	42.18	15.088	70.34	43.73318	2.898541
0.60564	42.18	15.089	70.34	43.73771	2.898649
0.60571	42.18	15.09	70.35	43.74224	2.898757
0.60577	42.17	15.091	70.35	43.74678	2.898866
0.60584	42.17	15.092	70.35	43.75131	2.898974
0.60591	42.17	15.093	70.35	43.75585	2.899082
0.60597	42.17	15.094	70.35	43.76038	2.89919
0.60604	42.16	15.095	70.36	43.76492	2.899299
0.60611	42.16	15.096	70.36	43.76945	2.899407
0.60617	42.16	15.097	70.36	43.77399	2.899516
0.60624	42.16	15.098	70.36	43.77853	2.899624
0.60631	42.15	15.099	70.37	43.78307	2.899733
0.60637	42.15	15.1	70.37	43.78761	2.899842
0.60644	42.15	15.101	70.37	43.79215	2.89995
0.6065	42.14	15.102	70.37	43.79669	2.900059
0.60657	42.14	15.103	70.38	43.80124	2.900168
0.60664	42.14	15.104	70.38	43.80578	2.900277
0.6067	42.14	15.105	70.38	43.81032	2.900385
0.60677	42.13	15.106	70.38	43.81487	2.900495
0.60684	42.13	15.107	70.39	43.81941	2.900603
0.6069	42.13	15.108	70.39	43.82396	2.900712
0.60697	42.12	15.109	70.39	43.8285	2.900821
0.60704	42.12	15.11	70.39	43.83305	2.90093
0.6071	42.12	15.111	70.39	43.8376	2.901039
0.60717	42.12	15.112	70.4	43.84215	2.901148
0.60723	42.11	15.113	70.4	43.8467	2.901257
0.6073	42.11	15.114	70.4	43.85125	2.901366
0.60737	42.11	15.115	70.4	43.8558	2.901475
0.60743	42.1	15.116	70.41	43.86035	2.901584
0.6075	42.1	15.117	70.41	43.8649	2.901693
0.60757	42.1	15.118	70.41	43.86946	2.901803
0.60763	42.1	15.119	70.41	43.87401	2.901912
0.6077	42.09	15.12	70.42	43.87857	2.902022
0.60777	42.09	15.121	70.42	43.88312	2.902131
0.60783	42.09	15.122	70.42	43.88768	2.90224
0.6079	42.08	15.123	70.42	43.89223	2.902349
0.60797	42.08	15.124	70.43	43.89679	2.902459
0.60803	42.08	15.125	70.43	43.90135	2.902569
0.6081	42.08	15.126	70.43	43.90591	2.902678
0.60817	42.07	15.127	70.43	43.91047	2.902788
0.60823	42.07	15.128	70.43	43.91503	2.902897
0.6083	42.07	15.129	70.44	43.91959	2.903007
0.60837	42.06	15.13	70.44	43.92415	2.903116
0.60843	42.06	15.131	70.44	43.92872	2.903226
0.6085	42.06	15.132	70.44	43.93328	2.903336
0.60857	42.06	15.133	70.45	43.93784	2.903445
0.60863	42.05	15.134	70.45	43.94241	2.903556
0.6087	42.05	15.135	70.45	43.94697	2.903665
0.60877	42.05	15.136	70.45	43.95154	2.903775
0.60883	42.04	15.137	70.46	43.95611	2.903885
0.6089	42.04	15.138	70.46	43.96068	2.903995
0.60897	42.04	15.139	70.46	43.96524	2.904105
0.60903	42.04	15.14	70.46	43.96981	2.904215
0.6091	42.03	15.141	70.46	43.97438	2.904325
0.60917	42.03	15.142	70.47	43.97896	2.904435
0.60923	42.03	15.143	70.47	43.98353	2.904545
0.6093	42.03	15.144	70.47	43.9881	2.904655
0.60937	42.02	15.145	70.47	43.99267	2.904765
0.60943	42.02	15.146	70.48	43.99725	2.904876
0.6095	42.02	15.147	70.48	44.00182	2.904986
0.60957	42.01	15.148	70.48	44.0064	2.905096
0.60963	42.01	15.149	70.48	44.01097	2.905206
0.6097	42.01	15.15	70.49	44.01555	2.905317
0.60977	42.01	15.151	70.49	44.02013	2.905427
0.60983	42	15.152	70.49	44.0247	2.905537
0.6099	42	15.153	70.49	44.02928	2.905648
0.60997	42	15.154	70.5	44.03386	2.905758
0.61003	41.99	15.155	70.5	44.03844	2.905869
0.6101	41.99	15.156	70.5	44.04302	2.905979
0.61017	41.99	15.157	70.5	44.04761	2.90609
0.61023	41.99	15.158	70.5	44.05219	2.906201
0.6103	41.98	15.159	70.51	44.05677	2.906311
0.61037	41.98	15.16	70.51	44.06136	2.906422
0.61043	41.98	15.161	70.51	44.06594	2.906533
0.6105	41.97	15.162	70.51	44.07053	2.906644
0.61057	41.97	15.163	70.52	44.07511	2.906754
0.61063	41.97	15.164	70.52	44.0797	2.906865
0.6107	41.97	15.165	70.52	44.08429	2.906976
0.61077	41.96	15.166	70.52	44.08888	2.907087
0.61083	41.96	15.167	70.53	44.09347	2.907198
0.6109	41.96	15.168	70.53	44.09806	2.907309
0.61097	41.95	15.169	70.53	44.10265	2.90742
0.61104	41.95	15.17	70.53	44.10724	2.907531
0.6111	41.95	15.171	70.54	44.11183	2.907642
0.61117	41.95	15.172	70.54	44.11642	2.907752
0.61124	41.94	15.173	70.54	44.12102	2.907864
0.6113	41.94	15.174	70.54	44.12561	2.907975
0.61137	41.94	15.175	70.54	44.13021	2.908086
0.61144	41.93	15.176	70.55	44.1348	2.908197
0.6115	41.93	15.177	70.55	44.1394	2.908309
0.61157	41.93	15.178	70.55	44.144	2.90842
0.61164	41.93	15.179	70.55	44.14859	2.908531
0.6117	41.92	15.18	70.56	44.15319	2.908642
0.61177	41.92	15.181	70.56	44.15779	2.908754
0.61184	41.92	15.182	70.56	44.16239	2.908865
0.61191	41.91	15.183	70.56	44.16699	2.908976
0.61197	41.91	15.184	70.57	44.1716	2.909089
0.61204	41.91	15.185	70.57	44.1762	2.9092
0.61211	41.91	15.186	70.57	44.1808	2.909311
0.61217	41.9	15.187	70.57	44.18541	2.909423
0.61224	41.9	15.188	70.57	44.19001	2.909535
0.61231	41.9	15.189	70.58	44.19462	2.909646
0.61237	41.9	15.19	70.58	44.19922	2.909758
0.61244	41.89	15.191	70.58	44.20383	2.90987
0.61251	41.89	15.192	70.58	44.20844	2.909982
0.61258	41.89	15.193	70.59	44.21305	2.910093
0.61264	41.88	15.194	70.59	44.21766	2.910205
0.61271	41.88	15.195	70.59	44.22227	2.910317
0.61278	41.88	15.196	70.59	44.22688	2.910429
0.61284	41.88	15.197	70.6	44.23149	2.910541
0.61291	41.87	15.198	70.6	44.2361	2.910653
0.61298	41.87	15.199	70.6	44.24071	2.910765
0.61304	41.87	15.2	70.6	44.24533	2.910877
0.61311	41.86	15.201	70.61	44.24994	2.910989
0.61318	41.86	15.202	70.61	44.25456	2.911101
0.61325	41.86	15.203	70.61	44.25917	2.911213
0.61331	41.86	15.204	70.61	44.26379	2.911325
0.61338	41.85	15.205	70.61	44.26841	2.911438
0.61345	41.85	15.206	70.62	44.27302	2.911549
0.61351	41.85	15.207	70.62	44.27764	2.911662
0.61358	41.84	15.208	70.62	44.28226	2.911774
0.61365	41.84	15.209	70.62	44.28688	2.911886
0.61372	41.84	15.21	70.63	44.2915	2.911999
0.61378	41.84	15.211	70.63	44.29613	2.912112
0.61385	41.83	15.212	70.63	44.30075	2.912224
0.61392	41.83	15.213	70.63	44.30537	2.912336
0.61398	41.83	15.214	70.64	44.31	2.912449
0.61405	41.82	15.215	70.64	44.31462	2.912561
0.61412	41.82	15.216	70.64	44.31925	2.912674
0.61419	41.82	15.217	70.64	44.32387	2.912786
0.61425	41.82	15.218	70.64	44.3285	2.912899
0.61432	41.81	15.219	70.65	44.33313	2.913012
0.61439	41.81	15.22	70.65	44.33776	2.913125
0.61446	41.81	15.221	70.65	44.34239	2.913238
0.61452	41.8	15.222	70.65	44.34702	2.91335
0.61459	41.8	15.223	70.66	44.35165	2.913463
0.61466	41.8	15.224	70.66	44.35628	2.913576
0.61472	41.8	15.225	70.66	44.36091	2.913689
0.61479	41.79	15.226	70.66	44.36554	2.913801
0.61486	41.79	15.227	70.67	44.37018	2.913915
0.61493	41.79	15.228	70.67	44.37481	2.914027
0.61499	41.78	15.229	70.67	44.37945	2.914141
0.61506	41.78	15.23	70.67	44.38408	2.914253
0.61513	41.78	15.231	70.68	44.38872	2.914367
0.6152	41.78	15.232	70.68	44.39336	2.91448
0.61526	41.77	15.233	70.68	44.398	2.914593
0.61533	41.77	15.234	70.68	44.40264	2.914707
0.6154	41.77	15.235	70.68	44.40728	2.91482
0.61546	41.76	15.236	70.69	44.41192	2.914933
0.61553	41.76	15.237	70.69	44.41656	2.915046
0.6156	41.76	15.238	70.69	44.4212	2.915159
0.61567	41.76	15.239	70.69	44.42584	2.915273
0.61573	41.75	15.24	70.7	44.43049	2.915386
0.6158	41.75	15.241	70.7	44.43513	2.9155
0.61587	41.75	15.242	70.7	44.43978	2.915613
0.61594	41.74	15.243	70.7	44.44442	2.915727
0.616	41.74	15.244	70.71	44.44907	2.91584
0.61607	41.74	15.245	70.71	44.45372	2.915954
0.61614	41.74	15.246	70.71	44.45836	2.916067
0.61621	41.73	15.247	70.71	44.46301	2.916181
0.61627	41.73	15.248	70.71	44.46766	2.916295
0.61634	41.73	15.249	70.72	44.47231	2.916408
0.61641	41.72	15.25	70.72	44.47696	2.916522
0.61648	41.72	15.251	70.72	44.48162	2.916636
0.61654	41.72	15.252	70.72	44.48627	2.91675
0.61661	41.72	15.253	70.73	44.49092	2.916864
0.61668	41.71	15.254	70.73	44.49558	2.916978
0.61675	41.71	15.255	70.73	44.50023	2.917091
0.61681	41.71	15.256	70.73	44.50489	2.917206
0.61688	41.71	15.257	70.74	44.50954	2.917319
0.61695	41.7	15.258	70.74	44.5142	2.917433
0.61702	41.7	15.259	70.74	44.51886	2.917548
0.61708	41.7	15.26	70.74	44.52352	2.917662
0.61715	41.69	15.261	70.74	44.52818	2.917776
0.61722	41.69	15.262	70.75	44.53284	2.91789
0.61729	41.69	15.263	70.75	44.5375	2.918004
0.61735	41.69	15.264	70.75	44.54216	2.918118
0.61742	41.68	15.265	70.75	44.54682	2.918233
0.61749	41.68	15.266	70.76	44.55148	2.918347
0.61756	41.68	15.267	70.76	44.55615	2.918461
0.61762	41.67	15.268	70.76	44.56081	2.918575
0.61769	41.67	15.269	70.76	44.56548	2.91869
0.61776	41.67	15.27	70.77	44.57014	2.918804
0.61783	41.67	15.271	70.77	44.57481	2.918919
0.61789	41.66	15.272	70.77	44.57948	2.919034
0.61796	41.66	15.273	70.77	44.58415	2.919148
0.61803	41.66	15.274	70.78	44.58882	2.919263
0.6181	41.65	15.275	70.78	44.59349	2.919377
0.61816	41.65	15.276	70.78	44.59816	2.919492
0.61823	41.65	15.277	70.78	44.60283	2.919607
0.6183	41.65	15.278	70.78	44.6075	2.919721
0.61837	41.64	15.279	70.79	44.61217	2.919836
0.61844	41.64	15.28	70.79	44.61685	2.919951
0.6185	41.64	15.281	70.79	44.62152	2.920065
0.61857	41.63	15.282	70.79	44.6262	2.920181
0.61864	41.63	15.283	70.8	44.63087	2.920295
0.61871	41.63	15.284	70.8	44.63555	2.92041
0.61877	41.63	15.285	70.8	44.64023	2.920525
0.61884	41.62	15.286	70.8	44.6449	2.92064
0.61891	41.62	15.287	70.81	44.64958	2.920755
0.61898	41.62	15.288	70.81	44.65426	2.92087
0.61904	41.61	15.289	70.81	44.65894	2.920985
0.61911	41.61	15.29	70.81	44.66362	2.9211
0.61918	41.61	15.291	70.81	44.66831	2.921216
0.61925	41.61	15.292	70.82	44.67299	2.921331
0.61932	41.6	15.293	70.82	44.67767	2.921446
0.61938	41.6	15.294	70.82	44.68236	2.921561
0.61945	41.6	15.295	70.82	44.68704	2.921676
0.61952	41.59	15.296	70.83	44.69173	2.921792
0.61959	41.59	15.297	70.83	44.69641	2.921907
0.61965	41.59	15.298	70.83	44.7011	2.922022
0.61972	41.59	15.299	70.83	44.70579	2.922138
0.61979	41.58	15.3	70.84	44.71048	2.922254
0.61986	41.58	15.301	70.84	44.71517	2.922369
0.61993	41.58	15.302	70.84	44.71986	2.922485
0.61999	41.57	15.303	70.84	44.72455	2.9226
0.62006	41.57	15.304	70.84	44.72924	2.922716

0.62013	41.57	15.305	70.85	44.73393	2.922831
0.6202	41.57	15.306	70.85	44.73863	2.922947
0.62027	41.56	15.307	70.85	44.74332	2.923063
0.62033	41.56	15.308	70.85	44.74802	2.923179
0.6204	41.56	15.309	70.86	44.75271	2.923294
0.62047	41.55	15.31	70.86	44.75741	2.92341
0.62054	41.55	15.311	70.86	44.76211	2.923526
0.62061	41.55	15.312	70.86	44.7668	2.923642
0.62067	41.55	15.313	70.87	44.7715	2.923758
0.62074	41.54	15.314	70.87	44.7762	2.923874
0.62081	41.54	15.315	70.87	44.7809	2.92399
0.62088	41.54	15.316	70.87	44.7856	2.924106
0.62094	41.53	15.317	70.87	44.7903	2.924221
0.62101	41.53	15.318	70.88	44.79501	2.924338
0.62108	41.53	15.319	70.88	44.79971	2.924454
0.62115	41.53	15.32	70.88	44.80441	2.92457
0.62122	41.52	15.321	70.88	44.80912	2.924686
0.62128	41.52	15.322	70.89	44.81382	2.924802
0.62135	41.52	15.323	70.89	44.81853	2.924919
0.62142	41.51	15.324	70.89	44.82324	2.925035
0.62149	41.51	15.325	70.89	44.82795	2.925152
0.62156	41.51	15.326	70.9	44.83265	2.925268
0.62162	41.51	15.327	70.9	44.83736	2.925384
0.62169	41.5	15.328	70.9	44.84207	2.9255
0.62176	41.5	15.329	70.9	44.84678	2.925617
0.62183	41.5	15.33	70.9	44.8515	2.925734
0.6219	41.49	15.331	70.91	44.85621	2.92585
0.62196	41.49	15.332	70.91	44.86092	2.925967
0.62203	41.49	15.333	70.91	44.86564	2.926084
0.6221	41.49	15.334	70.91	44.87035	2.9262
0.62217	41.48	15.335	70.92	44.87507	2.926317
0.62224	41.48	15.336	70.92	44.87978	2.926433
0.62231	41.48	15.337	70.92	44.8845	2.92655
0.62237	41.47	15.338	70.92	44.88922	2.926667
0.62244	41.47	15.339	70.93	44.89394	2.926784
0.62251	41.47	15.34	70.93	44.89865	2.9269
0.62258	41.47	15.341	70.93	44.90337	2.927017
0.62265	41.46	15.342	70.93	44.9081	2.927135
0.62271	41.46	15.343	70.93	44.91282	2.927252
0.62278	41.46	15.344	70.94	44.91754	2.927368
0.62285	41.45	15.345	70.94	44.92226	2.927485
0.62292	41.45	15.346	70.94	44.92699	2.927603
0.62299	41.45	15.347	70.94	44.93171	2.927719
0.62305	41.45	15.348	70.95	44.93644	2.927837
0.62312	41.44	15.349	70.95	44.94116	2.927954
0.62319	41.44	15.35	70.95	44.94589	2.928071
0.62326	41.44	15.351	70.95	44.95062	2.928188
0.62333	41.43	15.352	70.96	44.95535	2.928306
0.6234	41.43	15.353	70.96	44.96007	2.928422
0.62346	41.43	15.354	70.96	44.9648	2.92854
0.62353	41.43	15.355	70.96	44.96954	2.928658
0.6236	41.42	15.356	70.96	44.97427	2.928775
0.62367	41.42	15.357	70.97	44.979	2.928892
0.62374	41.42	15.358	70.97	44.98373	2.92901
0.62381	41.41	15.359	70.97	44.98847	2.929128
0.62387	41.41	15.36	70.97	44.9932	2.929245
0.62394	41.41	15.361	70.98	44.99794	2.929363
0.62401	41.41	15.362	70.98	45.00267	2.92948
0.62408	41.4	15.363	70.98	45.00741	2.929598
0.62415	41.4	15.364	70.98	45.01215	2.929716
0.62422	41.4	15.365	70.99	45.01688	2.929833
0.62428	41.39	15.366	70.99	45.02162	2.929951
0.62435	41.39	15.367	70.99	45.02636	2.930068
0.62442	41.39	15.368	70.99	45.0311	2.930186
0.62449	41.39	15.369	70.99	45.03585	2.930305
0.62456	41.38	15.37	71	45.04059	2.930422
0.62463	41.38	15.371	71	45.04533	2.93054
0.62469	41.38	15.372	71	45.05008	2.930658
0.62476	41.37	15.373	71	45.05482	2.930776
0.62483	41.37	15.374	71.01	45.05957	2.930894
0.6249	41.37	15.375	71.01	45.06431	2.931012
0.62497	41.37	15.376	71.01	45.06906	2.93113
0.62504	41.36	15.377	71.01	45.07381	2.931249
0.6251	41.36	15.378	71.02	45.07855	2.931366
0.62517	41.36	15.379	71.02	45.0833	2.931484
0.62524	41.35	15.38	71.02	45.08805	2.931603
0.62531	41.35	15.381	71.02	45.0928	2.931721
0.62538	41.35	15.382	71.02	45.09756	2.93184
0.62545	41.35	15.383	71.03	45.10231	2.931958
0.62551	41.34	15.384	71.03	45.10706	2.932076
0.62558	41.34	15.385	71.03	45.11181	2.932194
0.62565	41.34	15.386	71.03	45.11657	2.932313
0.62572	41.33	15.387	71.04	45.12132	2.932431
0.62579	41.33	15.388	71.04	45.12608	2.93255
0.62586	41.33	15.389	71.04	45.13084	2.932669
0.62593	41.33	15.39	71.04	45.1356	2.932788
0.62599	41.32	15.391	71.05	45.14035	2.932906
0.62606	41.32	15.392	71.05	45.14511	2.933024
0.62613	41.32	15.393	71.05	45.14987	2.933143
0.6262	41.31	15.394	71.05	45.15463	2.933262
0.62627	41.31	15.395	71.05	45.1594	2.933381
0.62634	41.31	15.396	71.06	45.16416	2.9335
0.62641	41.31	15.397	71.06	45.16892	2.933618
0.62647	41.3	15.398	71.06	45.17368	2.933737
0.62654	41.3	15.399	71.06	45.17845	2.933856
0.62661	41.3	15.4	71.07	45.18321	2.933975
0.62668	41.29	15.401	71.07	45.18798	2.934094
0.62675	41.29	15.402	71.07	45.19275	2.934213
0.62682	41.29	15.403	71.07	45.19752	2.934332
0.62689	41.29	15.404	71.08	45.20228	2.934451
0.62695	41.28	15.405	71.08	45.20705	2.93457
0.62702	41.28	15.406	71.08	45.21182	2.934689
0.62709	41.28	15.407	71.08	45.21659	2.934808
0.62716	41.27	15.408	71.08	45.22137	2.934928
0.62723	41.27	15.409	71.09	45.22614	2.935047
0.6273	41.27	15.41	71.09	45.23091	2.935166
0.62737	41.27	15.411	71.09	45.23569	2.935286
0.62743	41.26	15.412	71.09	45.24046	2.935405
0.6275	41.26	15.413	71.1	45.24524	2.935525
0.62757	41.26	15.414	71.1	45.25001	2.935644
0.62764	41.25	15.415	71.1	45.25479	2.935763
0.62771	41.25	15.416	71.1	45.25957	2.935883
0.62778	41.25	15.417	71.11	45.26435	2.936002
0.62785	41.25	15.418	71.11	45.26912	2.936121
0.62792	41.24	15.419	71.11	45.2739	2.936241
0.62798	41.24	15.42	71.11	45.27869	2.936361
0.62805	41.24	15.421	71.11	45.28347	2.936481
0.62812	41.23	15.422	71.12	45.28825	2.9366
0.62819	41.23	15.423	71.12	45.29303	2.93672
0.62826	41.23	15.424	71.12	45.29782	2.93684
0.62833	41.23	15.425	71.12	45.3026	2.936959
0.6284	41.22	15.426	71.13	45.30739	2.93708
0.62847	41.22	15.427	71.13	45.31217	2.937199
0.62853	41.22	15.428	71.13	45.31696	2.937319
0.6286	41.21	15.429	71.13	45.32175	2.937439
0.62867	41.21	15.43	71.13	45.32654	2.937559
0.62874	41.21	15.431	71.14	45.33133	2.937679
0.62881	41.21	15.432	71.14	45.33612	2.937799
0.62888	41.2	15.433	71.14	45.34091	2.937919
0.62895	41.2	15.434	71.14	45.3457	2.938039
0.62902	41.2	15.435	71.15	45.35049	2.938159
0.62908	41.19	15.436	71.15	45.35529	2.93828
0.62915	41.19	15.437	71.15	45.36008	2.9384
0.62922	41.19	15.438	71.15	45.36487	2.93852
0.62929	41.19	15.439	71.16	45.36967	2.93864
0.62936	41.18	15.44	71.16	45.37447	2.938761
0.62943	41.18	15.441	71.16	45.37926	2.938881
0.6295	41.18	15.442	71.16	45.38406	2.939001
0.62957	41.17	15.443	71.16	45.38886	2.939122
0.62964	41.17	15.444	71.17	45.39366	2.939242
0.6297	41.17	15.445	71.17	45.39846	2.939363
0.62977	41.17	15.446	71.17	45.40326	2.939483
0.62984	41.16	15.447	71.17	45.40806	2.939604
0.62991	41.16	15.448	71.18	45.41287	2.939725
0.62998	41.16	15.449	71.18	45.41767	2.939845
0.63005	41.15	15.45	71.18	45.42247	2.939966
0.63012	41.15	15.451	71.18	45.42728	2.940087
0.63019	41.15	15.452	71.19	45.43209	2.940208
0.63026	41.15	15.453	71.19	45.43689	2.940328
0.63033	41.14	15.454	71.19	45.4417	2.940449
0.63039	41.14	15.455	71.19	45.44651	2.94057
0.63046	41.14	15.456	71.19	45.45132	2.940691
0.63053	41.13	15.457	71.2	45.45613	2.940812
0.6306	41.13	15.458	71.2	45.46094	2.940933
0.63067	41.13	15.459	71.2	45.46575	2.941054
0.63074	41.13	15.46	71.2	45.47056	2.941175
0.63081	41.12	15.461	71.21	45.47537	2.941296
0.63088	41.12	15.462	71.21	45.48019	2.941417
0.63095	41.12	15.463	71.21	45.485	2.941538
0.63102	41.11	15.464	71.21	45.48982	2.941659
0.63108	41.11	15.465	71.22	45.49463	2.94178
0.63115	41.11	15.466	71.22	45.49945	2.941902
0.63122	41.11	15.467	71.22	45.50427	2.942023
0.63129	41.1	15.468	71.22	45.50909	2.942144
0.63136	41.1	15.469	71.22	45.5139	2.942265
0.63143	41.1	15.47	71.23	45.51872	2.942387
0.6315	41.09	15.471	71.23	45.52355	2.942509
0.63157	41.09	15.472	71.23	45.52837	2.94263
0.63164	41.09	15.473	71.23	45.53319	2.942751
0.63171	41.09	15.474	71.24	45.53801	2.942873
0.63178	41.08	15.475	71.24	45.54284	2.942995
0.63184	41.08	15.476	71.24	45.54766	2.943116
0.63191	41.08	15.477	71.24	45.55249	2.943238
0.63198	41.07	15.478	71.24	45.55731	2.943359
0.63205	41.07	15.479	71.25	45.56214	2.943481
0.63212	41.07	15.48	71.25	45.56697	2.943603
0.63219	41.07	15.481	71.25	45.5718	2.943725
0.63226	41.06	15.482	71.25	45.57663	2.943846
0.63233	41.06	15.483	71.26	45.58146	2.943968
0.6324	41.06	15.484	71.26	45.58629	2.94409
0.63247	41.05	15.485	71.26	45.59112	2.944212
0.63254	41.05	15.486	71.26	45.59595	2.944334
0.63261	41.05	15.487	71.27	45.60078	2.944455
0.63268	41.05	15.488	71.27	45.60562	2.944578
0.63274	41.04	15.489	71.27	45.61045	2.944699
0.63281	41.04	15.49	71.27	45.61529	2.944822
0.63288	41.04	15.491	71.27	45.62012	2.944944
0.63295	41.03	15.492	71.28	45.62496	2.945066
0.63302	41.03	15.493	71.28	45.6298	2.945188
0.63309	41.03	15.494	71.28	45.63464	2.94531
0.63316	41.03	15.495	71.28	45.63948	2.945433
0.63323	41.02	15.496	71.29	45.64432	2.945555
0.6333	41.02	15.497	71.29	45.64916	2.945677
0.63337	41.02	15.498	71.29	45.654	2.945799
0.63344	41.01	15.499	71.29	45.65884	2.945922
0.63351	41.01	15.5	71.29	45.66369	2.946045
0.63358	41.01	15.501	71.3	45.66853	2.946167
0.63365	41.01	15.502	71.3	45.67338	2.94629
0.63371	41	15.503	71.3	45.67822	2.946412
0.63378	41	15.504	71.3	45.68307	2.946534
0.63385	41	15.505	71.31	45.68792	2.946657
0.63392	40.99	15.506	71.31	45.69277	2.94678
0.63399	40.99	15.507	71.31	45.69762	2.946903
0.63406	40.99	15.508	71.31	45.70246	2.947025
0.63413	40.99	15.509	71.32	45.70732	2.947148
0.6342	40.98	15.51	71.32	45.71217	2.947271
0.63427	40.98	15.511	71.32	45.71702	2.947393
0.63434	40.98	15.512	71.32	45.72187	2.947516
0.63441	40.97	15.513	71.32	45.72673	2.947639
0.63448	40.97	15.514	71.33	45.73158	2.947762
0.63455	40.97	15.515	71.33	45.73644	2.947885
0.63462	40.97	15.516	71.33	45.74129	2.948008
0.63469	40.96	15.517	71.33	45.74615	2.948131
0.63476	40.96	15.518	71.34	45.75101	2.948254
0.63483	40.96	15.519	71.34	45.75587	2.948377
0.6349	40.95	15.52	71.34	45.76072	2.9485
0.63496	40.95	15.521	71.34	45.76559	2.948624
0.63503	40.95	15.522	71.35	45.77045	2.948747
0.6351	40.95	15.523	71.35	45.77531	2.94887
0.63517	40.94	15.524	71.35	45.78017	2.948993
0.63524	40.94	15.525	71.35	45.78503	2.949116
0.63531	40.94	15.526	71.35	45.7899	2.94924
0.63538	40.93	15.527	71.36	45.79476	2.949363
0.63545	40.93	15.528	71.36	45.79963	2.949487
0.63552	40.93	15.529	71.36	45.80449	2.94961
0.63559	40.93	15.53	71.36	45.80936	2.949733
0.63566	40.92	15.531	71.37	45.81423	2.949857
0.63573	40.92	15.532	71.37	45.8191	2.949981
0.6358	40.92	15.533	71.37	45.82397	2.950104
0.63587	40.91	15.534	71.37	45.82884	2.950228
0.63594	40.91	15.535	71.37	45.83371	2.950351
0.63601	40.91	15.536	71.38	45.83858	2.950475
0.63608	40.91	15.537	71.38	45.84346	2.950599
0.63615	40.9	15.538	71.38	45.84833	2.950723
0.63622	40.9	15.539	71.38	45.8532	2.950846
0.63629	40.9	15.54	71.39	45.85808	2.95097
0.63636	40.89	15.541	71.39	45.86295	2.951094
0.63643	40.89	15.542	71.39	45.86783	2.951218
0.6365	40.89	15.543	71.39	45.87271	2.951342
0.63657	40.89	15.544	71.4	45.87759	2.951466
0.63664	40.88	15.545	71.4	45.88247	2.95159
0.6367	40.88	15.546	71.4	45.88735	2.951714
0.63677	40.88	15.547	71.4	45.89223	2.951838
0.63684	40.87	15.548	71.4	45.89711	2.951962
0.63691	40.87	15.549	71.41	45.90199	2.952086
0.63698	40.87	15.55	71.41	45.90687	2.95221
0.63705	40.87	15.551	71.41	45.91176	2.952335
0.63712	40.86	15.552	71.41	45.91664	2.952459
0.63719	40.86	15.553	71.42	45.92153	2.952583
0.63726	40.86	15.554	71.42	45.92642	2.952708
0.63733	40.85	15.555	71.42	45.9313	2.952832
0.6374	40.85	15.556	71.42	45.93619	2.952956
0.63747	40.85	15.557	71.42	45.94108	2.953081
0.63754	40.85	15.558	71.43	45.94597	2.953205
0.63761	40.84	15.559	71.43	45.95086	2.95333
0.63768	40.84	15.56	71.43	45.95575	2.953454
0.63775	40.84	15.561	71.43	45.96064	2.953579
0.63782	40.83	15.562	71.44	45.96554	2.953704
0.63789	40.83	15.563	71.44	45.97043	2.953828
0.63796	40.83	15.564	71.44	45.97532	2.953953
0.63803	40.83	15.565	71.44	45.98022	2.954078
0.6381	40.82	15.566	71.45	45.98511	2.954202
0.63817	40.82	15.567	71.45	45.99001	2.954327
0.63824	40.82	15.568	71.45	45.99491	2.954452
0.63831	40.81	15.569	71.45	45.99981	2.954577
0.63838	40.81	15.57	71.45	46.00471	2.954702
0.63845	40.81	15.571	71.46	46.00961	2.954827
0.63852	40.81	15.572	71.46	46.01451	2.954952
0.63859	40.8	15.573	71.46	46.01941	2.955077
0.63866	40.8	15.574	71.46	46.02431	2.955202
0.63873	40.8	15.575	71.47	46.02921	2.955326
0.6388	40.79	15.576	71.47	46.03412	2.955452
0.63887	40.79	15.577	71.47	46.03902	2.955577
0.63894	40.79	15.578	71.47	46.04393	2.955702
0.63901	40.79	15.579	71.47	46.04883	2.955827
0.63908	40.78	15.58	71.48	46.05374	2.955953
0.63915	40.78	15.581	71.48	46.05865	2.956078
0.63922	40.78	15.582	71.48	46.06356	2.956203
0.63929	40.77	15.583	71.48	46.06847	2.956329
0.63936	40.77	15.584	71.49	46.07338	2.956454
0.63943	40.77	15.585	71.49	46.07829	2.956579
0.6395	40.77	15.586	71.49	46.0832	2.956705
0.63957	40.76	15.587	71.49	46.08811	2.95683
0.63964	40.76	15.588	71.49	46.09303	2.956956
0.63971	40.76	15.589	71.5	46.09794	2.957081
0.63978	40.75	15.59	71.5	46.10286	2.957207
0.63985	40.75	15.591	71.5	46.10777	2.957332
0.63992	40.75	15.592	71.5	46.11269	2.957458
0.63999	40.75	15.593	71.51	46.11761	2.957584
0.64006	40.74	15.594	71.51	46.12253	2.95771
0.64013	40.74	15.595	71.51	46.12745	2.957836
0.6402	40.74	15.596	71.51	46.13237	2.957962
0.64027	40.73	15.597	71.52	46.13729	2.958087
0.64034	40.73	15.598	71.52	46.14221	2.958213
0.64041	40.73	15.599	71.52	46.14713	2.958339
0.64048	40.72	15.6	71.52	46.15205	2.958465
0.64055	40.72	15.601	71.52	46.15698	2.958591
0.64062	40.72	15.602	71.53	46.1619	2.958717
0.64069	40.72	15.603	71.53	46.16683	2.958843
0.64076	40.71	15.604	71.53	46.17176	2.958969
0.64083	40.71	15.605	71.53	46.17668	2.959095
0.6409	40.71	15.606	71.54	46.18161	2.959221
0.64097	40.7	15.607	71.54	46.18654	2.959348
0.64104	40.7	15.608	71.54	46.19147	2.959474
0.64111	40.7	15.609	71.54	46.1964	2.9596
0.64118	40.7	15.61	71.54	46.20133	2.959726
0.64125	40.69	15.611	71.55	46.20626	2.959853
0.64132	40.69	15.612	71.55	46.2112	2.95998
0.64139	40.69	15.613	71.55	46.21613	2.960106
0.64146	40.68	15.614	71.55	46.22106	2.960232
0.64153	40.68	15.615	71.56	46.226	2.960359
0.6416	40.68	15.616	71.56	46.23094	2.960485
0.64167	40.68	15.617	71.56	46.23587	2.960612
0.64174	40.67	15.618	71.56	46.24081	2.960738
0.64181	40.67	15.619	71.57	46.24575	2.960865
0.64188	40.67	15.62	71.57	46.25069	2.960992
0.64195	40.66	15.621	71.57	46.25563	2.961118
0.64202	40.66	15.622	71.57	46.26057	2.961245
0.6421	40.66	15.623	71.57	46.26551	2.961372
0.64217	40.66	15.624	71.58	46.27045	2.961498
0.64224	40.65	15.625	71.58	46.2754	2.961626
0.64231	40.65	15.626	71.58	46.28034	2.961752
0.64238	40.65	15.627	71.58	46.28529	2.961879
0.64245	40.64	15.628	71.59	46.29023	2.962006
0.64252	40.64	15.629	71.59	46.29518	2.962133
0.64259	40.64	15.63	71.59	46.30013	2.96226
0.64266	40.64	15.631	71.59	46.30508	2.962388
0.64273	40.63	15.632	71.59	46.31002	2.962514
0.6428	40.63	15.633	71.6	46.31497	2.962641
0.64287	40.63	15.634	71.6	46.31992	2.962768
0.64294	40.62	15.635	71.6	46.32488	2.962896
0.64301	40.62	15.636	71.6	46.32983	2.963023
0.64308	40.62	15.637	71.61	46.33478	2.96315
0.64315	40.62	15.638	71.61	46.33974	2.963278
0.64322	40.61	15.639	71.61	46.34469	2.963405
0.64329	40.61	15.64	71.61	46.34965	2.963533
0.64336	40.61	15.641	71.61	46.3546	2.96366
0.64343	40.6	15.642	71.62	46.35956	2.963787
0.6435	40.6	15.643	71.62	46.36452	2.963915
0.64357	40.6	15.644	71.62	46.36948	2.964042
0.64364	40.6	15.645	71.62	46.37444	2.96417
0.64371	40.59	15.646	71.63	46.3794	2.964298
0.64378	40.59	15.647	71.63	46.38436	2.964425
0.64386	40.59	15.648	71.63	46.38932	2.964553
0.64393	40.58	15.649	71.63	46.39428	2.96468
0.644	40.58	15.65	71.64	46.39925	2.964808
0.64407	40.58	15.651	71.64	46.40421	2.964936
0.64414	40.58	15.652	71.64	46.40918	2.965064
0.64421	40.57	15.653	71.64	46.41414	2.965191
0.64428	40.57	15.654	71.64	46.41911	2.965319
0.64435	40.57	15.655	71.65	46.42408	2.965447
0.64442	40.56	15.656	71.65	46.42905	2.965575
0.64449	40.56	15.657	71.65	46.43402	2.965704
0.64456	40.56	15.658	71.65	46.43899	2.965832
0.64463	40.56	15.659	71.66	46.44396	2.96596
0.6447	40.55	15.66	71.66	46.44893	2.966087
0.64477	40.55	15.661	71.66	46.4539	2.966215
0.64484	40.55	15.662	71.66	46.45887	2.966343
0.64491	40.54	15.663	71.66	46.46385	2.966472
0.64498	40.54	15.664	71.67	46.46882	2.9666
0.64506	40.54	15.665	71.67	46.4738	2.966728
0.64513	40.53	15.666	71.67	46.47878	2.966857
0.6452	40.53	15.667	71.67	46.48375	2.966985
0.64527	40.53	15.668	71.68	46.48873	2.967113
0.64534	40.53	15.669	71.68	46.49371	2.967242
0.64541	40.52	15.67	71.68	46.49869	2.96737
0.64548	40.52	15.671	71.68	46.50367	2.967499
0.64555	40.52	15.672	71.68	46.50865	2.967627
0.64562	40.51	15.673	71.69	46.51364	2.967756
0.64569	40.51	15.674	71.69	46.51862	2.967884
0.64576	40.51	15.675	71.69	46.5236	2.968013
0.64583	40.51	15.676	71.69	46.52859	2.968142
0.6459	40.5	15.677	71.7	46.53357	2.96827
0.64597	40.5	15.678	71.7	46.53856	2.968399
0.64605	40.5	15.679	71.7	46.54355	2.968528
0.64612	40.49	15.68	71.7	46.54854	2.968657
0.64619	40.49	15.681	71.7	46.55353	2.968786
0.64626	40.49	15.682	71.71	46.55852	2.968915
0.64633	40.49	15.683	71.71	46.56351	2.969044
0.6464	40.48	15.684	71.71	46.5685	2.969172
0.64647	40.48	15.685	71.71	46.57349	2.969301
0.64654	40.48	15.686	71.72	46.57848	2.96943
0.64661	40.47	15.687	71.72	46.58348	2.96956
0.64668	40.47	15.688	71.72	46.58847	2.969688
0.64675	40.47	15.689	71.72	46.59347	2.969818
0.64682	40.47	15.69	71.73	46.59846	2.969946
0.64689	40.46	15.691	71.73	46.60346	2.970076
0.64697	40.46	15.692	71.73	46.60846	2.970205
0.64704	40.46	15.693	71.73	46.61346	2.970335
0.64711	40.45	15.694	71.73	46.61846	2.970464
0.64718	40.45	15.695	71.74	46.62346	2.970593
0.64725	40.45	15.696	71.74	46.62846	2.970722
0.64732	40.45	15.697	71.74	46.63346	2.970852
0.64739	40.44	15.698	71.74	46.63846	2.970981
0.64746	40.44	15.699	71.75	46.64347	2.971111
0.64753	40.44	15.7	71.75	46.64847	2.97124
0.6476	40.43	15.701	71.75	46.65348	2.97137
0.64767	40.43	15.702	71.75	46.65848	2.971499
0.64775	40.43	15.703	71.75	46.66349	2.971629
0.64782	40.43	15.704	71.76	46.6685	2.971759
0.64789	40.42	15.705	71.76	46.67351	2.971889
0.64796	40.42	15.706	71.76	46.67852	2.972018
0.64803	40.42	15.707	71.76	46.68353	2.972148
0.6481	40.41	15.708	71.77	46.68854	2.972278
0.64817	40.41	15.709	71.77	46.69355	2.972408
0.64824	40.41	15.71	71.77	46.69856	2.972537
0.64831	40.41	15.711	71.77	46.70358	2.972668
0.64838	40.4	15.712	71.77	46.70859	2.972797
0.64846	40.4	15.713	71.78	46.71361	2.972928
0.64853	40.4	15.714	71.78	46.71862	2.973057
0.6486	40.39	15.715	71.78	46.72364	2.973187
0.64867	40.39	15.716	71.78	46.72866	2.973318
0.64874	40.39	15.717	71.79	46.73368	2.973448
0.64881	40.39	15.718	71.79	46.7387	2.973578
0.64888	40.38	15.719	71.79	46.74372	2.973708
0.64895	40.38	15.72	71.79	46.74874	2.973838
0.64902	40.38	15.721	71.79	46.75376	2.973969
0.6491	40.37	15.722	71.8	46.75878	2.974099
0.64917	40.37	15.723	71.8	46.7638	2.974229
0.64924	40.37	15.724	71.8	46.76883	2.97436
0.64931	40.36	15.725	71.8	46.77385	2.97449
0.64938	40.36	15.726	71.81	46.77888	2.97462
0.64945	40.36	15.727	71.81	46.78391	2.974751
0.64952	40.36	15.728	71.81	46.78893	2.974881
0.64959	40.35	15.729	71.81	46.79396	2.975012
0.64966	40.35	15.73	71.81	46.79899	2.975142
0.64974	40.35	15.731	71.82	46.80402	2.975273
0.64981	40.34	15.732	71.82	46.80905	2.975404
0.64988	40.34	15.733	71.82	46.81409	2.975535
0.64995	40.34	15.734	71.82	46.81912	2.975665
0.65002	40.34	15.735	71.83	46.82415	2.975796
0.65009	40.33	15.736	71.83	46.82919	2.975927
0.65016	40.33	15.737	71.83	46.83422	2.976058
0.65023	40.33	15.738	71.83	46.83926	2.976189
0.65031	40.32	15.739	71.83	46.84429	2.976319
0.65038	40.32	15.74	71.84	46.84933	2.97645
0.65045	40.32	15.741	71.84	46.85437	2.976582
0.65052	40.32	15.742	71.84	46.85941	2.976713
0.65059	40.31	15.743	71.84	46.86445	2.976844
0.65066	40.31	15.744	71.85	46.86949	2.976975
0.65073	40.31	15.745	71.85	46.87453	2.977106
0.6508	40.3	15.746	71.85	46.87957	2.977237
0.65088	40.3	15.747	71.85	46.88462	2.977368
0.65095	40.3	15.748	71.86	46.88966	2.977499
0.65102	40.3	15.749	71.86	46.89471	2.977631
0.65109	40.29	15.75	71.86	46.89975	2.977762
0.65116	40.29	15.751	71.86	46.9048	2.977893
0.65123	40.29	15.752	71.86	46.90985	2.978025
0.6513	40.28	15.753	71.87	46.91489	2.978156
0.65137	40.28	15.754	71.87	46.91994	2.978287
0.65145	40.28	15.755	71.87	46.92499	2.978419
0.65152	40.28	15.756	71.87	46.93004	2.97855
0.65159	40.27	15.757	71.88	46.9351	2.978682
0.65166	40.27	15.758	71.88	46.94015	2.978814
0.65173	40.27	15.759	71.88	46.9452	2.978945
0.6518	40.26	15.76	71.88	46.95026	2.979077
0.65187	40.26	15.761	71.88	46.95531	2.979209
0.65195	40.26	15.762	71.89	46.96037	2.979341
0.65202	40.26	15.763	71.89	46.96542	2.979472
0.65209	40.25	15.764	71.89	46.97048	2.979604
0.65216	40.25	15.765	71.89	46.97554	2.979736
0.65223	40.25	15.766	71.9	46.9806	2.979868
0.6523	40.24	15.767	71.9	46.98566	2.98
0.65237	40.24	15.768	71.9	46.99072	2.980132
0.65245	40.24	15.769	71.9	46.99578	2.980264
0.65252	40.24	15.77	71.9	47.00084	2.980396
0.65259	40.23	15.771	71.91	47.00591	2.980528
0.65266	40.23	15.772	71.91	47.01097	2.98066
0.65273	40.23	15.773	71.91	47.01604	2.980792
0.6528	40.22	15.774	71.91	47.0211	2.980924
0.65288	40.22	15.775	71.92	47.02617	2.981057
0.65295	40.22	15.776	71.92	47.03124	2.981189
0.65302	40.21	15.777	71.92	47.0363	2.981321
0.65309	40.21	15.778	71.92	47.04137	2.981453

0.65316	40.21	15.779	71.92	47.04644	2.981586
0.65323	40.21	15.78	71.93	47.05151	2.981718
0.6533	40.2	15.781	71.93	47.05659	2.981851
0.65338	40.2	15.782	71.93	47.06166	2.981983
0.65345	40.2	15.783	71.93	47.06673	2.982116
0.65352	40.19	15.784	71.94	47.07181	2.982248
0.65359	40.19	15.785	71.94	47.07688	2.982381
0.65366	40.19	15.786	71.94	47.08196	2.982514
0.65373	40.19	15.787	71.94	47.08703	2.982646
0.65381	40.18	15.788	71.94	47.09211	2.982779
0.65388	40.18	15.789	71.95	47.09719	2.982912
0.65395	40.18	15.79	71.95	47.10227	2.983044
0.65402	40.17	15.791	71.95	47.10735	2.983177
0.65409	40.17	15.792	71.95	47.11243	2.98331
0.65416	40.17	15.793	71.96	47.11751	2.983443
0.65424	40.17	15.794	71.96	47.12259	2.983575
0.65431	40.16	15.795	71.96	47.12768	2.983709
0.65438	40.16	15.796	71.96	47.13276	2.983841
0.65445	40.16	15.797	71.96	47.13785	2.983975
0.65452	40.15	15.798	71.97	47.14293	2.984107
0.65459	40.15	15.799	71.97	47.14802	2.984241
0.65467	40.15	15.8	71.97	47.15311	2.984374
0.65474	40.15	15.801	71.97	47.15819	2.984507
0.65481	40.14	15.802	71.98	47.16328	2.98464
0.65488	40.14	15.803	71.98	47.16837	2.984773
0.65495	40.14	15.804	71.98	47.17346	2.984906
0.65503	40.13	15.805	71.98	47.17856	2.98504
0.6551	40.13	15.806	71.98	47.18365	2.985173
0.65517	40.13	15.807	71.99	47.18874	2.985307
0.65524	40.13	15.808	71.99	47.19384	2.98544
0.65531	40.12	15.809	71.99	47.19893	2.985573
0.65538	40.12	15.81	71.99	47.20403	2.985707
0.65546	40.12	15.811	72	47.20912	2.98584
0.65553	40.11	15.812	72	47.21422	2.985974
0.6556	40.11	15.813	72	47.21932	2.986108
0.65567	40.11	15.814	72	47.22442	2.986241
0.65574	40.1	15.815	72	47.22952	2.986375
0.65582	40.1	15.816	72.01	47.23462	2.986509
0.65589	40.1	15.817	72.01	47.23972	2.986642
0.65596	40.1	15.818	72.01	47.24483	2.986776
0.65603	40.09	15.819	72.01	47.24993	2.98691
0.6561	40.09	15.82	72.02	47.25503	2.987044
0.65617	40.09	15.821	72.02	47.26014	2.987178
0.65625	40.08	15.822	72.02	47.26524	2.987311
0.65632	40.08	15.823	72.02	47.27035	2.987445
0.65639	40.08	15.824	72.02	47.27546	2.98758
0.65646	40.08	15.825	72.03	47.28057	2.987714
0.65653	40.07	15.826	72.03	47.28568	2.987848
0.65661	40.07	15.827	72.03	47.29079	2.987982
0.65668	40.07	15.828	72.03	47.2959	2.988116
0.65675	40.06	15.829	72.04	47.30101	2.98825
0.65682	40.06	15.83	72.04	47.30612	2.988384
0.65689	40.06	15.831	72.04	47.31124	2.988519
0.65697	40.06	15.832	72.04	47.31635	2.988653
0.65704	40.05	15.833	72.04	47.32147	2.988787
0.65711	40.05	15.834	72.05	47.32658	2.988921
0.65718	40.05	15.835	72.05	47.3317	2.989056
0.65725	40.04	15.836	72.05	47.33682	2.98919
0.65733	40.04	15.837	72.05	47.34194	2.989325
0.6574	40.04	15.838	72.06	47.34706	2.98946
0.65747	40.04	15.839	72.06	47.35218	2.989594
0.65754	40.03	15.84	72.06	47.3573	2.989729
0.65761	40.03	15.841	72.06	47.36242	2.989863
0.65769	40.03	15.842	72.06	47.36754	2.989997
0.65776	40.02	15.843	72.07	47.37267	2.990133
0.65783	40.02	15.844	72.07	47.37779	2.990267
0.6579	40.02	15.845	72.07	47.38292	2.990402
0.65798	40.02	15.846	72.07	47.38804	2.990536
0.65805	40.01	15.847	72.08	47.39317	2.990671
0.65812	40.01	15.848	72.08	47.3983	2.990806
0.65819	40.01	15.849	72.08	47.40343	2.990941
0.65826	40	15.85	72.08	47.40856	2.991076
0.65834	40	15.851	72.08	47.41369	2.991211
0.65841	40	15.852	72.09	47.41882	2.991346
0.65848	39.99	15.853	72.09	47.42395	2.991481
0.65855	39.99	15.854	72.09	47.42908	2.991616
0.65862	39.99	15.855	72.09	47.43422	2.991751
0.6587	39.99	15.856	72.1	47.43935	2.991886
0.65877	39.98	15.857	72.1	47.44449	2.992022
0.65884	39.98	15.858	72.1	47.44962	2.992157
0.65891	39.98	15.859	72.1	47.45476	2.992292
0.65899	39.97	15.86	72.1	47.4599	2.992427
0.65906	39.97	15.861	72.11	47.46504	2.992563
0.65913	39.97	15.862	72.11	47.47018	2.992698
0.6592	39.97	15.863	72.11	47.47532	2.992834
0.65928	39.96	15.864	72.11	47.48046	2.992969
0.65935	39.96	15.865	72.12	47.4856	2.993104
0.65942	39.96	15.866	72.12	47.49075	2.99324
0.65949	39.95	15.867	72.12	47.49589	2.993376
0.65956	39.95	15.868	72.12	47.50103	2.993511
0.65964	39.95	15.869	72.12	47.50618	2.993647
0.65971	39.95	15.87	72.13	47.51133	2.993783
0.65978	39.94	15.871	72.13	47.51647	2.993918
0.65985	39.94	15.872	72.13	47.52162	2.994054
0.65993	39.94	15.873	72.13	47.52677	2.99419
0.66	39.93	15.874	72.14	47.53192	2.994325
0.66007	39.93	15.875	72.14	47.53707	2.994461
0.66014	39.93	15.876	72.14	47.54222	2.994597
0.66022	39.93	15.877	72.14	47.54738	2.994733
0.66029	39.92	15.878	72.14	47.55253	2.994869
0.66036	39.92	15.879	72.15	47.55768	2.995005
0.66043	39.92	15.88	72.15	47.56284	2.995141
0.66051	39.91	15.881	72.15	47.568	2.995277
0.66058	39.91	15.882	72.15	47.57315	2.995413
0.66065	39.91	15.883	72.16	47.57831	2.995549
0.66072	39.91	15.884	72.16	47.58347	2.995686
0.66079	39.9	15.885	72.16	47.58863	2.995822
0.66087	39.9	15.886	72.16	47.59379	2.995958
0.66094	39.9	15.887	72.16	47.59895	2.996094
0.66101	39.89	15.888	72.17	47.60411	2.99623
0.66108	39.89	15.889	72.17	47.60927	2.996367
0.66116	39.89	15.89	72.17	47.61444	2.996503
0.66123	39.88	15.891	72.17	47.6196	2.99664
0.6613	39.88	15.892	72.18	47.62477	2.996776
0.66137	39.88	15.893	72.18	47.62993	2.996912
0.66145	39.88	15.894	72.18	47.6351	2.997049
0.66152	39.87	15.895	72.18	47.64027	2.997186
0.66159	39.87	15.896	72.18	47.64544	2.997323
0.66166	39.87	15.897	72.19	47.65061	2.997459
0.66174	39.86	15.898	72.19	47.65578	2.997596
0.66181	39.86	15.899	72.19	47.66095	2.997733
0.66188	39.86	15.9	72.19	47.66612	2.997869
0.66196	39.86	15.901	72.2	47.67129	2.998006
0.66203	39.85	15.902	72.2	47.67647	2.998143
0.6621	39.85	15.903	72.2	47.68164	2.99828
0.66217	39.85	15.904	72.2	47.68682	2.998417
0.66225	39.84	15.905	72.2	47.692	2.998554
0.66232	39.84	15.906	72.21	47.69717	2.99869
0.66239	39.84	15.907	72.21	47.70235	2.998828
0.66246	39.84	15.908	72.21	47.70753	2.998965
0.66254	39.83	15.909	72.21	47.71271	2.999102
0.66261	39.83	15.91	72.22	47.71789	2.999239
0.66268	39.83	15.911	72.22	47.72307	2.999376
0.66275	39.82	15.912	72.22	47.72825	2.999513
0.66283	39.82	15.913	72.22	47.73344	2.999651
0.6629	39.82	15.914	72.22	47.73862	2.999788
0.66297	39.82	15.915	72.23	47.74381	2.999925
0.66304	39.81	15.916	72.23	47.74899	3.000062
0.66312	39.81	15.917	72.23	47.75418	3.0002
0.66319	39.81	15.918	72.23	47.75937	3.000337
0.66326	39.8	15.919	72.24	47.76456	3.000475
0.66334	39.8	15.92	72.24	47.76975	3.000612
0.66341	39.8	15.921	72.24	47.77494	3.00075
0.66348	39.8	15.922	72.24	47.78013	3.000887
0.66355	39.79	15.923	72.24	47.78532	3.001025
0.66363	39.79	15.924	72.25	47.79051	3.001162
0.6637	39.79	15.925	72.25	47.79571	3.0013
0.66377	39.78	15.926	72.25	47.8009	3.001438
0.66385	39.78	15.927	72.25	47.8061	3.001576
0.66392	39.78	15.928	72.25	47.81129	3.001713
0.66399	39.77	15.929	72.26	47.81649	3.001851
0.66406	39.77	15.93	72.26	47.82169	3.001989
0.66414	39.77	15.931	72.26	47.82689	3.002127
0.66421	39.77	15.932	72.26	47.83208	3.002265
0.66428	39.76	15.933	72.27	47.83729	3.002403
0.66436	39.76	15.934	72.27	47.84249	3.002541
0.66443	39.76	15.935	72.27	47.84769	3.002679
0.6645	39.75	15.936	72.27	47.85289	3.002817
0.66457	39.75	15.937	72.27	47.8581	3.002955
0.66465	39.75	15.938	72.28	47.8633	3.003093
0.66472	39.75	15.939	72.28	47.86851	3.003232
0.66479	39.74	15.94	72.28	47.87371	3.00337
0.66487	39.74	15.941	72.28	47.87892	3.003508
0.66494	39.74	15.942	72.29	47.88413	3.003646
0.66501	39.73	15.943	72.29	47.88934	3.003785
0.66508	39.73	15.944	72.29	47.89455	3.003923
0.66516	39.73	15.945	72.29	47.89976	3.004061
0.66523	39.73	15.946	72.29	47.90497	3.0042
0.6653	39.72	15.947	72.3	47.91018	3.004338
0.66538	39.72	15.948	72.3	47.9154	3.004477
0.66545	39.72	15.949	72.3	47.92061	3.004615
0.66552	39.71	15.95	72.3	47.92583	3.004754
0.6656	39.71	15.951	72.31	47.93104	3.004892
0.66567	39.71	15.952	72.31	47.93626	3.005031
0.66574	39.71	15.953	72.31	47.94148	3.00517
0.66581	39.7	15.954	72.31	47.9467	3.005309
0.66589	39.7	15.955	72.31	47.95191	3.005447
0.66596	39.7	15.956	72.32	47.95714	3.005587
0.66603	39.69	15.957	72.32	47.96236	3.005725
0.66611	39.69	15.958	72.32	47.96758	3.005864
0.66618	39.69	15.959	72.32	47.9728	3.006003
0.66625	39.68	15.96	72.33	47.97803	3.006142
0.66633	39.68	15.961	72.33	47.98325	3.006281
0.6664	39.68	15.962	72.33	47.98848	3.00642
0.66647	39.68	15.963	72.33	47.9937	3.006559
0.66655	39.67	15.964	72.33	47.99893	3.006698
0.66662	39.67	15.965	72.34	48.00416	3.006837
0.66669	39.67	15.966	72.34	48.00939	3.006977
0.66676	39.66	15.967	72.34	48.01462	3.007116
0.66684	39.66	15.968	72.34	48.01985	3.007255
0.66691	39.66	15.969	72.35	48.02508	3.007394
0.66698	39.66	15.97	72.35	48.03031	3.007534
0.66706	39.65	15.971	72.35	48.03554	3.007673
0.66713	39.65	15.972	72.35	48.04078	3.007812
0.6672	39.65	15.973	72.35	48.04601	3.007952
0.66728	39.64	15.974	72.36	48.05125	3.008091
0.66735	39.64	15.975	72.36	48.05649	3.008231
0.66742	39.64	15.976	72.36	48.06172	3.00837
0.6675	39.64	15.977	72.36	48.06696	3.00851
0.66757	39.63	15.978	72.36	48.0722	3.008649
0.66764	39.63	15.979	72.37	48.07744	3.008789
0.66772	39.63	15.98	72.37	48.08268	3.008929
0.66779	39.62	15.981	72.37	48.08793	3.009069
0.66786	39.62	15.982	72.37	48.09317	3.009208
0.66794	39.62	15.983	72.38	48.09841	3.009348
0.66801	39.62	15.984	72.38	48.10366	3.009488
0.66808	39.61	15.985	72.38	48.1089	3.009628
0.66816	39.61	15.986	72.38	48.11415	3.009768
0.66823	39.61	15.987	72.38	48.1194	3.009908
0.6683	39.6	15.988	72.39	48.12464	3.010048
0.66838	39.6	15.989	72.39	48.12989	3.010188
0.66845	39.6	15.99	72.39	48.13514	3.010328
0.66852	39.59	15.991	72.39	48.14039	3.010468
0.6686	39.59	15.992	72.4	48.14565	3.010608
0.66867	39.59	15.993	72.4	48.1509	3.010748
0.66874	39.59	15.994	72.4	48.15615	3.010888
0.66882	39.58	15.995	72.4	48.16141	3.011029
0.66889	39.58	15.996	72.4	48.16666	3.011169
0.66896	39.58	15.997	72.41	48.17192	3.01131
0.66904	39.57	15.998	72.41	48.17717	3.01145
0.66911	39.57	15.999	72.41	48.18243	3.01159
0.66918	39.57	16	72.41	48.18769	3.011731
0.66926	39.57	16.001	72.42	48.19295	3.011871
0.66933	39.56	16.002	72.42	48.19821	3.012012
0.6694	39.56	16.003	72.42	48.20347	3.012152
0.66948	39.56	16.004	72.42	48.20873	3.012293
0.66955	39.55	16.005	72.43	48.214	3.012434
0.66962	39.55	16.006	72.43	48.21926	3.012574
0.6697	39.55	16.007	72.43	48.22453	3.012715
0.66977	39.55	16.008	72.43	48.22979	3.012855
0.66984	39.54	16.009	72.44	48.23506	3.012996
0.66992	39.54	16.01	72.44	48.24033	3.013137
0.66999	39.54	16.011	72.44	48.24559	3.013278
0.67007	39.53	16.012	72.44	48.25086	3.013419
0.67014	39.53	16.013	72.45	48.25613	3.01356
0.67021	39.53	16.014	72.45	48.26141	3.013701
0.67029	39.52	16.015	72.45	48.26668	3.013842
0.67036	39.52	16.016	72.45	48.27195	3.013983
0.67043	39.52	16.017	72.46	48.27723	3.014124
0.67051	39.52	16.018	72.46	48.2825	3.014265
0.67058	39.51	16.019	72.46	48.28778	3.014407
0.67065	39.51	16.02	72.46	48.29305	3.014547
0.67073	39.51	16.021	72.47	48.29833	3.014689
0.6708	39.5	16.022	72.47	48.30361	3.01483
0.67087	39.5	16.023	72.47	48.30889	3.014972
0.67095	39.5	16.024	72.47	48.31417	3.015113
0.67102	39.5	16.025	72.48	48.31945	3.015254
0.6711	39.49	16.026	72.48	48.32473	3.015396
0.67117	39.49	16.027	72.48	48.33002	3.015538
0.67124	39.49	16.028	72.48	48.3353	3.015679
0.67132	39.48	16.029	72.49	48.34059	3.015821
0.67139	39.48	16.03	72.49	48.34587	3.015962
0.67146	39.48	16.031	72.49	48.35116	3.016104
0.67154	39.47	16.032	72.49	48.35645	3.016246
0.67161	39.47	16.033	72.5	48.36173	3.016387
0.67169	39.47	16.034	72.5	48.36702	3.016529
0.67176	39.47	16.035	72.5	48.37232	3.016671
0.67183	39.46	16.036	72.5	48.37761	3.016813
0.67191	39.46	16.037	72.51	48.3829	3.016955
0.67198	39.46	16.038	72.51	48.38819	3.017096
0.67205	39.45	16.039	72.51	48.39349	3.017239
0.67213	39.45	16.04	72.51	48.39878	3.01738
0.6722	39.45	16.041	72.52	48.40408	3.017523
0.67228	39.45	16.042	72.52	48.40937	3.017664
0.67235	39.44	16.043	72.52	48.41467	3.017807
0.67242	39.44	16.044	72.52	48.41997	3.017949
0.6725	39.44	16.045	72.53	48.42527	3.018091
0.67257	39.43	16.046	72.53	48.43057	3.018233
0.67264	39.43	16.047	72.53	48.43587	3.018375
0.67272	39.43	16.048	72.53	48.44118	3.018518
0.67279	39.43	16.049	72.54	48.44648	3.01866
0.67287	39.42	16.05	72.54	48.45178	3.018802
0.67294	39.42	16.051	72.54	48.45709	3.018945
0.67301	39.42	16.052	72.54	48.4624	3.019088
0.67309	39.41	16.053	72.55	48.4677	3.01923
0.67316	39.41	16.054	72.55	48.47301	3.019373
0.67324	39.41	16.055	72.55	48.47832	3.019515
0.67331	39.4	16.056	72.55	48.48363	3.019658
0.67338	39.4	16.057	72.56	48.48894	3.019801
0.67346	39.4	16.058	72.56	48.49425	3.019943
0.67353	39.4	16.059	72.56	48.49956	3.020086
0.67361	39.39	16.06	72.56	48.50488	3.020229
0.67368	39.39	16.061	72.57	48.51019	3.020372
0.67375	39.39	16.062	72.57	48.51551	3.020515
0.67383	39.38	16.063	72.57	48.52082	3.020657
0.6739	39.38	16.064	72.57	48.52614	3.020801
0.67397	39.38	16.065	72.58	48.53146	3.020944
0.67405	39.38	16.066	72.58	48.53678	3.021087
0.67412	39.37	16.067	72.58	48.5421	3.02123
0.6742	39.37	16.068	72.58	48.54742	3.021373
0.67427	39.37	16.069	72.58	48.55274	3.021516
0.67435	39.36	16.07	72.59	48.55807	3.02166
0.67442	39.36	16.071	72.59	48.56339	3.021803
0.67449	39.36	16.072	72.59	48.56871	3.021946
0.67457	39.35	16.073	72.59	48.57404	3.022089
0.67464	39.35	16.074	72.6	48.57937	3.022233
0.67472	39.35	16.075	72.6	48.58469	3.022376
0.67479	39.35	16.076	72.6	48.59002	3.022519
0.67486	39.34	16.077	72.6	48.59535	3.022663
0.67494	39.34	16.078	72.61	48.60068	3.022806
0.67501	39.34	16.079	72.61	48.60601	3.02295
0.67509	39.33	16.08	72.61	48.61134	3.023093
0.67516	39.33	16.081	72.61	48.61668	3.023237
0.67523	39.33	16.082	72.62	48.62201	3.023381
0.67531	39.33	16.083	72.62	48.62735	3.023525
0.67538	39.32	16.084	72.62	48.63268	3.023668
0.67546	39.32	16.085	72.62	48.63802	3.023812
0.67553	39.32	16.086	72.63	48.64336	3.023956
0.67561	39.31	16.087	72.63	48.64869	3.0241
0.67568	39.31	16.088	72.63	48.65403	3.024244
0.67575	39.31	16.089	72.63	48.65937	3.024387
0.67583	39.31	16.09	72.64	48.66472	3.024532
0.6759	39.3	16.091	72.64	48.67006	3.024676
0.67598	39.3	16.092	72.64	48.6754	3.02482
0.67605	39.3	16.093	72.64	48.68075	3.024964
0.67612	39.29	16.094	72.65	48.68609	3.025108
0.6762	39.29	16.095	72.65	48.69144	3.025253
0.67627	39.29	16.096	72.65	48.69678	3.025396
0.67635	39.28	16.097	72.65	48.70213	3.025541
0.67642	39.28	16.098	72.66	48.70748	3.025685
0.6765	39.28	16.099	72.66	48.71283	3.02583
0.67657	39.28	16.1	72.66	48.71818	3.025974
0.67664	39.27	16.101	72.66	48.72353	3.026118
0.67672	39.27	16.102	72.67	48.72888	3.026263
0.67679	39.27	16.103	72.67	48.73424	3.026408
0.67687	39.26	16.104	72.67	48.73959	3.026552
0.67694	39.26	16.105	72.67	48.74495	3.026697
0.67702	39.26	16.106	72.68	48.7503	3.026841
0.67709	39.26	16.107	72.68	48.75566	3.026986
0.67717	39.25	16.108	72.68	48.76102	3.027131
0.67724	39.25	16.109	72.68	48.76638	3.027275
0.67731	39.25	16.11	72.69	48.77174	3.02742
0.67739	39.24	16.111	72.69	48.7771	3.027565
0.67746	39.24	16.112	72.69	48.78246	3.02771
0.67754	39.24	16.113	72.69	48.78782	3.027855
0.67761	39.23	16.114	72.7	48.79319	3.028
0.67769	39.23	16.115	72.7	48.79855	3.028145
0.67776	39.23	16.116	72.7	48.80392	3.02829
0.67784	39.23	16.117	72.7	48.80928	3.028435
0.67791	39.22	16.118	72.71	48.81465	3.02858
0.67798	39.22	16.119	72.71	48.82002	3.028725
0.67806	39.22	16.12	72.71	48.82539	3.02887
0.67813	39.21	16.121	72.71	48.83076	3.029016
0.67821	39.21	16.122	72.72	48.83613	3.029161
0.67828	39.21	16.123	72.72	48.8415	3.029306
0.67836	39.21	16.124	72.72	48.84688	3.029452
0.67843	39.2	16.125	72.72	48.85225	3.029597
0.67851	39.2	16.126	72.73	48.85762	3.029742
0.67858	39.2	16.127	72.73	48.863	3.029888
0.67865	39.19	16.128	72.73	48.86838	3.030033
0.67873	39.19	16.129	72.73	48.87375	3.030179
0.6788	39.19	16.13	72.74	48.87913	3.030324
0.67888	39.19	16.131	72.74	48.88451	3.03047
0.67895	39.18	16.132	72.74	48.88989	3.030616
0.67903	39.18	16.133	72.74	48.89527	3.030761
0.6791	39.18	16.134	72.75	48.90066	3.030907
0.67918	39.17	16.135	72.75	48.90604	3.031053
0.67925	39.17	16.136	72.75	48.91142	3.031199
0.67933	39.17	16.137	72.75	48.91681	3.031345
0.6794	39.16	16.138	72.76	48.9222	3.031491
0.67948	39.16	16.139	72.76	48.92758	3.031636
0.67955	39.16	16.14	72.76	48.93297	3.031783
0.67962	39.16	16.141	72.76	48.93836	3.031929
0.6797	39.15	16.142	72.77	48.94375	3.032075
0.67977	39.15	16.143	72.77	48.94914	3.032221
0.67985	39.15	16.144	72.77	48.95453	3.032367
0.67992	39.14	16.145	72.77	48.95992	3.032513
0.68	39.14	16.146	72.78	48.96532	3.032659
0.68007	39.14	16.147	72.78	48.97071	3.032805
0.68015	39.14	16.148	72.78	48.97611	3.032952
0.68022	39.13	16.149	72.78	48.9815	3.033098
0.6803	39.13	16.15	72.79	48.9869	3.033245
0.68037	39.13	16.151	72.79	48.9923	3.033391
0.68045	39.12	16.152	72.79	48.9977	3.033538
0.68052	39.12	16.153	72.79	49.0031	3.033684
0.6806	39.12	16.154	72.8	49.0085	3.033831
0.68067	39.12	16.155	72.8	49.0139	3.033977
0.68075	39.11	16.156	72.8	49.01931	3.034124
0.68082	39.11	16.157	72.8	49.02471	3.034271
0.6809	39.11	16.158	72.81	49.03011	3.034417
0.68097	39.1	16.159	72.81	49.03552	3.034564
0.68105	39.1	16.16	72.81	49.04093	3.034711
0.68112	39.1	16.161	72.81	49.04633	3.034857
0.68119	39.09	16.162	72.82	49.05174	3.035004
0.68127	39.09	16.163	72.82	49.05715	3.035151
0.68134	39.09	16.164	72.82	49.06256	3.035298
0.68142	39.09	16.165	72.82	49.06797	3.035445
0.68149	39.08	16.166	72.83	49.07339	3.035593
0.68157	39.08	16.167	72.83	49.0788	3.035739
0.68164	39.08	16.168	72.83	49.08421	3.035886
0.68172	39.07	16.169	72.83	49.08963	3.036034
0.68179	39.07	16.17	72.84	49.09505	3.036181
0.68187	39.07	16.171	72.84	49.10046	3.036328
0.68194	39.07	16.172	72.84	49.10588	3.036475
0.68202	39.06	16.173	72.84	49.1113	3.036623
0.68209	39.06	16.174	72.85	49.11672	3.03677
0.68217	39.06	16.175	72.85	49.12214	3.036917
0.68224	39.05	16.176	72.85	49.12756	3.037065
0.68232	39.05	16.177	72.85	49.13299	3.037213
0.68239	39.05	16.178	72.86	49.13841	3.03736
0.68247	39.05	16.179	72.86	49.14383	3.037507
0.68254	39.04	16.18	72.86	49.14926	3.037655
0.68262	39.04	16.181	72.86	49.15469	3.037803
0.68269	39.04	16.182	72.86	49.16011	3.03795
0.68277	39.03	16.183	72.87	49.16554	3.038098
0.68284	39.03	16.184	72.87	49.17097	3.038246
0.68292	39.03	16.185	72.87	49.1764	3.038394
0.68299	39.02	16.186	72.87	49.18183	3.038541
0.68307	39.02	16.187	72.88	49.18726	3.038689
0.68314	39.02	16.188	72.88	49.1927	3.038837
0.68322	39.02	16.189	72.88	49.19813	3.038985
0.68329	39.01	16.19	72.88	49.20357	3.039133
0.68337	39.01	16.191	72.89	49.209	3.039281
0.68344	39.01	16.192	72.89	49.21444	3.039429
0.68352	39	16.193	72.89	49.21988	3.039578
0.6836	39	16.194	72.89	49.22532	3.039726
0.68367	39	16.195	72.9	49.23076	3.039874
0.68375	39	16.196	72.9	49.2362	3.040022
0.68382	38.99	16.197	72.9	49.24164	3.04017
0.6839	38.99	16.198	72.9	49.24708	3.040319
0.68397	38.99	16.199	72.91	49.25252	3.040467
0.68405	38.98	16.2	72.91	49.25797	3.040615
0.68412	38.98	16.201	72.91	49.26341	3.040764
0.6842	38.98	16.202	72.91	49.26886	3.040912
0.68427	38.97	16.203	72.92	49.27431	3.041061
0.68435	38.97	16.204	72.92	49.27976	3.04121
0.68442	38.97	16.205	72.92	49.28521	3.041358
0.6845	38.97	16.206	72.92	49.29066	3.041507
0.68457	38.96	16.207	72.93	49.29611	3.041655
0.68465	38.96	16.208	72.93	49.30156	3.041804
0.68472	38.96	16.209	72.93	49.30701	3.041953
0.6848	38.95	16.21	72.93	49.31247	3.042102
0.68487	38.95	16.211	72.94	49.31792	3.04225
0.68495	38.95	16.212	72.94	49.32338	3.042399
0.68502	38.95	16.213	72.94	49.32883	3.042548
0.6851	38.94	16.214	72.94	49.33429	3.042697
0.68518	38.94	16.215	72.95	49.33975	3.042846
0.68525	38.94	16.216	72.95	49.34521	3.042995
0.68533	38.93	16.217	72.95	49.35067	3.043144
0.6854	38.93	16.218	72.95	49.35613	3.043293
0.68548	38.93	16.219	72.96	49.36159	3.043442
0.68555	38.93	16.22	72.96	49.36706	3.043592
0.68563	38.92	16.221	72.96	49.37252	3.043741
0.6857	38.92	16.222	72.96	49.37799	3.04389
0.68578	38.92	16.223	72.97	49.38345	3.044039
0.68585	38.91	16.224	72.97	49.38892	3.044189
0.68593	38.91	16.225	72.97	49.39439	3.044338
0.686	38.91	16.226	72.97	49.39986	3.044488
0.68608	38.9	16.227	72.98	49.40533	3.044637
0.68616	38.9	16.228	72.98	49.4108	3.044787
0.68623	38.9	16.229	72.98	49.41627	3.044936
0.68631	38.9	16.23	72.98	49.42175	3.045086
0.68638	38.89	16.231	72.99	49.42722	3.045236
0.68646	38.89	16.232	72.99	49.43269	3.045385
0.68653	38.89	16.233	72.99	49.43817	3.045535
0.68661	38.88	16.234	72.99	49.44365	3.045685
0.68668	38.88	16.235	73	49.44912	3.045834
0.68676	38.88	16.236	73	49.4546	3.045984
0.68683	38.88	16.237	73	49.46008	3.046134
0.68691	38.87	16.238	73	49.46556	3.046284
0.68699	38.87	16.239	73.01	49.47104	3.046434
0.68706	38.87	16.24	73.01	49.47653	3.046584
0.68714	38.86	16.241	73.01	49.48201	3.046734
0.68721	38.86	16.242	73.01	49.4875	3.046885
0.68729	38.86	16.243	73.02	49.49298	3.047034
0.68736	38.86	16.244	73.02	49.49847	3.047185
0.68744	38.85	16.245	73.02	49.50395	3.047335
0.68752	38.85	16.246	73.02	49.50944	3.047485
0.68759	38.85	16.247	73.03	49.51493	3.047635
0.68767	38.84	16.248	73.03	49.52042	3.047786
0.68774	38.84	16.249	73.03	49.52591	3.047936
0.68782	38.84	16.25	73.03	49.5314	3.048086
0.68789	38.83	16.251	73.04	49.5369	3.048237
0.68797	38.83	16.252	73.04	49.54239	3.048387

0.68804	38.83	16.253	73.04	49.54789	3.048538
0.68812	38.83	16.254	73.04	49.55338	3.048688
0.6882	38.82	16.255	73.05	49.55888	3.048839
0.68827	38.82	16.256	73.05	49.56438	3.04899
0.68835	38.82	16.257	73.05	49.56988	3.049141
0.68842	38.81	16.258	73.05	49.57538	3.049291
0.6885	38.81	16.259	73.05	49.58088	3.049442
0.68857	38.81	16.26	73.06	49.58638	3.049593
0.68865	38.81	16.261	73.06	49.59188	3.049744
0.68873	38.8	16.262	73.06	49.59738	3.049894
0.6888	38.8	16.263	73.06	49.60289	3.050046
0.68888	38.8	16.264	73.07	49.60839	3.050196
0.68895	38.79	16.265	73.07	49.6139	3.050347
0.68903	38.79	16.266	73.07	49.61941	3.050499
0.68911	38.79	16.267	73.07	49.62492	3.05065
0.68918	38.79	16.268	73.08	49.63043	3.050801
0.68926	38.78	16.269	73.08	49.63594	3.050952
0.68933	38.78	16.27	73.08	49.64145	3.051103
0.68941	38.78	16.271	73.08	49.64696	3.051254
0.68948	38.77	16.272	73.09	49.65247	3.051405
0.68956	38.77	16.273	73.09	49.65799	3.051557
0.68964	38.77	16.274	73.09	49.6635	3.051708
0.68971	38.77	16.275	73.09	49.66902	3.05186
0.68979	38.76	16.276	73.1	49.67453	3.052011
0.68986	38.76	16.277	73.1	49.68005	3.052163
0.68994	38.76	16.278	73.1	49.68557	3.052314
0.69002	38.75	16.279	73.1	49.69109	3.052466
0.69009	38.75	16.28	73.11	49.69661	3.052617
0.69017	38.75	16.281	73.11	49.70213	3.052769
0.69024	38.74	16.282	73.11	49.70766	3.052921
0.69032	38.74	16.283	73.11	49.71318	3.053073
0.6904	38.74	16.284	73.12	49.71871	3.053225
0.69047	38.74	16.285	73.12	49.72423	3.053376
0.69055	38.73	16.286	73.12	49.72976	3.053528
0.69062	38.73	16.287	73.12	49.73528	3.05368
0.6907	38.73	16.288	73.13	49.74081	3.053832
0.69078	38.72	16.289	73.13	49.74634	3.053984
0.69085	38.72	16.29	73.13	49.75187	3.054136
0.69093	38.72	16.291	73.13	49.7574	3.054288
0.691	38.72	16.292	73.14	49.76294	3.05444
0.69108	38.71	16.293	73.14	49.76847	3.054592
0.69116	38.71	16.294	73.14	49.774	3.054744
0.69123	38.71	16.295	73.14	49.77954	3.054897
0.69131	38.7	16.296	73.15	49.78508	3.055049
0.69138	38.7	16.297	73.15	49.79061	3.055201
0.69146	38.7	16.298	73.15	49.79615	3.055353
0.69154	38.7	16.299	73.15	49.80169	3.055506
0.69161	38.69	16.3	73.16	49.80723	3.055658
0.69169	38.69	16.301	73.16	49.81277	3.055811
0.69176	38.69	16.302	73.16	49.81831	3.055963
0.69184	38.68	16.303	73.16	49.82386	3.056116
0.69192	38.68	16.304	73.17	49.8294	3.056268
0.69199	38.68	16.305	73.17	49.83495	3.056421
0.69207	38.67	16.306	73.17	49.84049	3.056574
0.69215	38.67	16.307	73.17	49.84604	3.056727
0.69222	38.67	16.308	73.18	49.85159	3.056879
0.6923	38.67	16.309	73.18	49.85714	3.057032
0.69237	38.66	16.31	73.18	49.86268	3.057185
0.69245	38.66	16.311	73.18	49.86824	3.057338
0.69253	38.66	16.312	73.19	49.87379	3.057491
0.6926	38.65	16.313	73.19	49.87934	3.057644
0.69268	38.65	16.314	73.19	49.88489	3.057796
0.69275	38.65	16.315	73.19	49.89045	3.05795
0.69283	38.65	16.316	73.2	49.896	3.058102
0.69291	38.64	16.317	73.2	49.90156	3.058256
0.69298	38.64	16.318	73.2	49.90712	3.058409
0.69306	38.64	16.319	73.2	49.91268	3.058562
0.69314	38.63	16.32	73.2	49.91824	3.058716
0.69321	38.63	16.321	73.21	49.9238	3.058869
0.69329	38.63	16.322	73.21	49.92936	3.059022
0.69337	38.63	16.323	73.21	49.93492	3.059175
0.69344	38.62	16.324	73.21	49.94048	3.059329
0.69352	38.62	16.325	73.22	49.94605	3.059482
0.69359	38.62	16.326	73.22	49.95161	3.059636
0.69367	38.61	16.327	73.22	49.95718	3.059789
0.69375	38.61	16.328	73.22	49.96275	3.059943
0.69382	38.61	16.329	73.23	49.96831	3.060096
0.6939	38.6	16.33	73.23	49.97388	3.06025
0.69398	38.6	16.331	73.23	49.97945	3.060404
0.69405	38.6	16.332	73.23	49.98502	3.060557
0.69413	38.6	16.333	73.24	49.9906	3.060711
0.69421	38.59	16.334	73.24	49.99617	3.060865
0.69428	38.59	16.335	73.24	50.00174	3.061019
0.69436	38.59	16.336	73.24	50.00732	3.061173
0.69443	38.58	16.337	73.25	50.01289	3.061326
0.69451	38.58	16.338	73.25	50.01847	3.061481
0.69459	38.58	16.339	73.25	50.02405	3.061635
0.69466	38.58	16.34	73.25	50.02963	3.061789
0.69474	38.57	16.341	73.26	50.03521	3.061943
0.69482	38.57	16.342	73.26	50.04079	3.062097
0.69489	38.57	16.343	73.26	50.04637	3.062251
0.69497	38.56	16.344	73.26	50.05195	3.062405
0.69505	38.56	16.345	73.27	50.05754	3.06256
0.69512	38.56	16.346	73.27	50.06312	3.062714
0.6952	38.56	16.347	73.27	50.06871	3.062868
0.69528	38.55	16.348	73.27	50.07429	3.063022
0.69535	38.55	16.349	73.28	50.07988	3.063177
0.69543	38.55	16.35	73.28	50.08547	3.063331
0.69551	38.54	16.351	73.28	50.09106	3.063486
0.69558	38.54	16.352	73.28	50.09665	3.063641
0.69566	38.54	16.353	73.29	50.10224	3.063795
0.69574	38.54	16.354	73.29	50.10783	3.063949
0.69581	38.53	16.355	73.29	50.11343	3.064105
0.69589	38.53	16.356	73.29	50.11902	3.064259
0.69597	38.53	16.357	73.3	50.12462	3.064414
0.69604	38.52	16.358	73.3	50.13021	3.064568
0.69612	38.52	16.359	73.3	50.13581	3.064723
0.6962	38.52	16.36	73.3	50.14141	3.064878
0.69627	38.51	16.361	73.31	50.14701	3.065033
0.69635	38.51	16.362	73.31	50.15261	3.065188
0.69643	38.51	16.363	73.31	50.15821	3.065343
0.6965	38.51	16.364	73.31	50.16381	3.065498
0.69658	38.5	16.365	73.32	50.16941	3.065653
0.69666	38.5	16.366	73.32	50.17502	3.065808
0.69673	38.5	16.367	73.32	50.18062	3.065963
0.69681	38.49	16.368	73.32	50.18623	3.066119
0.69689	38.49	16.369	73.32	50.19184	3.066274
0.69696	38.49	16.37	73.33	50.19744	3.066429
0.69704	38.49	16.371	73.33	50.20305	3.066584
0.69712	38.48	16.372	73.33	50.20866	3.06674
0.69719	38.48	16.373	73.33	50.21428	3.066895
0.69727	38.48	16.374	73.34	50.21989	3.067051
0.69735	38.47	16.375	73.34	50.2255	3.067206
0.69742	38.47	16.376	73.34	50.23111	3.067361
0.6975	38.47	16.377	73.34	50.23673	3.067517
0.69758	38.47	16.378	73.35	50.24234	3.067672
0.69765	38.46	16.379	73.35	50.24796	3.067828
0.69773	38.46	16.38	73.35	50.25358	3.067984
0.69781	38.46	16.381	73.35	50.2592	3.06814
0.69788	38.45	16.382	73.36	50.26482	3.068296
0.69796	38.45	16.383	73.36	50.27044	3.068451
0.69804	38.45	16.384	73.36	50.27606	3.068607
0.69812	38.44	16.385	73.36	50.28168	3.068763
0.69819	38.44	16.386	73.37	50.28731	3.068919
0.69827	38.44	16.387	73.37	50.29293	3.069075
0.69835	38.44	16.388	73.37	50.29856	3.069231
0.69842	38.43	16.389	73.37	50.30418	3.069387
0.6985	38.43	16.39	73.38	50.30981	3.069543
0.69858	38.43	16.391	73.38	50.31544	3.069699
0.69865	38.42	16.392	73.38	50.32107	3.069855
0.69873	38.42	16.393	73.38	50.3267	3.070012
0.69881	38.42	16.394	73.39	50.33233	3.070168
0.69888	38.42	16.395	73.39	50.33796	3.070324
0.69896	38.41	16.396	73.39	50.3436	3.070481
0.69904	38.41	16.397	73.39	50.34923	3.070637
0.69912	38.41	16.398	73.4	50.35487	3.070793
0.69919	38.4	16.399	73.4	50.3605	3.070949
0.69927	38.4	16.4	73.4	50.36614	3.071106
0.69935	38.4	16.401	73.4	50.37178	3.071263
0.69942	38.4	16.402	73.41	50.37742	3.071419
0.6995	38.39	16.403	73.41	50.38306	3.071576
0.69958	38.39	16.404	73.41	50.3887	3.071733
0.69965	38.39	16.405	73.41	50.39434	3.071889
0.69973	38.38	16.406	73.42	50.39999	3.072046
0.69981	38.38	16.407	73.42	50.40563	3.072203
0.69989	38.38	16.408	73.42	50.41128	3.07236
0.69996	38.38	16.409	73.42	50.41692	3.072516
0.70004	38.37	16.41	73.43	50.42257	3.072673
0.70012	38.37	16.411	73.43	50.42822	3.07283
0.70019	38.37	16.412	73.43	50.43387	3.072987
0.70027	38.36	16.413	73.43	50.43952	3.073144
0.70035	38.36	16.414	73.44	50.44517	3.073301
0.70043	38.36	16.415	73.44	50.45082	3.073458
0.7005	38.35	16.416	73.44	50.45648	3.073616
0.70058	38.35	16.417	73.44	50.46213	3.073773
0.70066	38.35	16.418	73.44	50.46778	3.07393
0.70073	38.35	16.419	73.45	50.47344	3.074087
0.70081	38.34	16.42	73.45	50.4791	3.074245
0.70089	38.34	16.421	73.45	50.48476	3.074402
0.70097	38.34	16.422	73.45	50.49042	3.07456
0.70104	38.33	16.423	73.46	50.49608	3.074717
0.70112	38.33	16.424	73.46	50.50174	3.074875
0.7012	38.33	16.425	73.46	50.5074	3.075032
0.70128	38.33	16.426	73.46	50.51306	3.075189
0.70135	38.32	16.427	73.47	50.51873	3.075347
0.70143	38.32	16.428	73.47	50.52439	3.075505
0.70151	38.32	16.429	73.47	50.53006	3.075663
0.70158	38.31	16.43	73.47	50.53572	3.07582
0.70166	38.31	16.431	73.48	50.54139	3.075978
0.70174	38.31	16.432	73.48	50.54706	3.076136
0.70182	38.31	16.433	73.48	50.55273	3.076293
0.70189	38.3	16.434	73.48	50.5584	3.076451
0.70197	38.3	16.435	73.49	50.56407	3.076609
0.70205	38.3	16.436	73.49	50.56975	3.076767
0.70213	38.29	16.437	73.49	50.57542	3.076925
0.7022	38.29	16.438	73.49	50.5811	3.077084
0.70228	38.29	16.439	73.5	50.58677	3.077241
0.70236	38.29	16.44	73.5	50.59245	3.0774
0.70244	38.28	16.441	73.5	50.59813	3.077558
0.70251	38.28	16.442	73.5	50.60381	3.077716
0.70259	38.28	16.443	73.51	50.60949	3.077874
0.70267	38.27	16.444	73.51	50.61517	3.078033
0.70275	38.27	16.445	73.51	50.62085	3.078191
0.70282	38.27	16.446	73.51	50.62653	3.078349
0.7029	38.26	16.447	73.52	50.63222	3.078508
0.70298	38.26	16.448	73.52	50.6379	3.078666
0.70306	38.26	16.449	73.52	50.64359	3.078825
0.70313	38.26	16.45	73.52	50.64927	3.078983
0.70321	38.25	16.451	73.53	50.65496	3.079142
0.70329	38.25	16.452	73.53	50.66065	3.0793
0.70337	38.25	16.453	73.53	50.66634	3.079459
0.70344	38.24	16.454	73.53	50.67203	3.079618
0.70352	38.24	16.455	73.54	50.67772	3.079776
0.7036	38.24	16.456	73.54	50.68341	3.079935
0.70368	38.24	16.457	73.54	50.68911	3.080094
0.70375	38.23	16.458	73.54	50.6948	3.080253
0.70383	38.23	16.459	73.54	50.7005	3.080412
0.70391	38.23	16.46	73.55	50.7062	3.080571
0.70399	38.22	16.461	73.55	50.71189	3.08073
0.70406	38.22	16.462	73.55	50.71759	3.080889
0.70414	38.22	16.463	73.55	50.72329	3.081048
0.70422	38.22	16.464	73.56	50.72899	3.081207
0.7043	38.21	16.465	73.56	50.73469	3.081366
0.70437	38.21	16.466	73.56	50.7404	3.081526
0.70445	38.21	16.467	73.56	50.7461	3.081685
0.70453	38.2	16.468	73.57	50.75181	3.081844
0.70461	38.2	16.469	73.57	50.75751	3.082003
0.70469	38.2	16.47	73.57	50.76322	3.082163
0.70476	38.2	16.471	73.57	50.76893	3.082322
0.70484	38.19	16.472	73.58	50.77463	3.082481
0.70492	38.19	16.473	73.58	50.78034	3.082641
0.705	38.19	16.474	73.58	50.78605	3.0828
0.70507	38.18	16.475	73.58	50.79177	3.08296
0.70515	38.18	16.476	73.59	50.79748	3.08312
0.70523	38.18	16.477	73.59	50.80319	3.083279
0.70531	38.17	16.478	73.59	50.80891	3.083439
0.70538	38.17	16.479	73.59	50.81462	3.083599
0.70546	38.17	16.48	73.6	50.82034	3.083758
0.70554	38.17	16.481	73.6	50.82606	3.083918
0.70562	38.16	16.482	73.6	50.83178	3.084078
0.7057	38.16	16.483	73.6	50.8375	3.084238
0.70577	38.16	16.484	73.61	50.84322	3.084398
0.70585	38.15	16.485	73.61	50.84894	3.084558
0.70593	38.15	16.486	73.61	50.85466	3.084718
0.70601	38.15	16.487	73.61	50.86038	3.084878
0.70609	38.15	16.488	73.62	50.86611	3.085038
0.70616	38.14	16.489	73.62	50.87184	3.085199
0.70624	38.14	16.49	73.62	50.87756	3.085358
0.70632	38.14	16.491	73.62	50.88329	3.085519
0.7064	38.13	16.492	73.63	50.88902	3.085679
0.70647	38.13	16.493	73.63	50.89475	3.085839
0.70655	38.13	16.494	73.63	50.90048	3.086
0.70663	38.13	16.495	73.63	50.90621	3.08616
0.70671	38.12	16.496	73.64	50.91194	3.08632
0.70679	38.12	16.497	73.64	50.91768	3.086481
0.70686	38.12	16.498	73.64	50.92341	3.086641
0.70694	38.11	16.499	73.64	50.92915	3.086802
0.70702	38.11	16.5	73.64	50.93488	3.086962
0.7071	38.11	16.501	73.65	50.94062	3.087123
0.70718	38.11	16.502	73.65	50.94636	3.087284
0.70725	38.1	16.503	73.65	50.9521	3.087445
0.70733	38.1	16.504	73.65	50.95784	3.087605
0.70741	38.1	16.505	73.66	50.96358	3.087766
0.70749	38.09	16.506	73.66	50.96932	3.087927
0.70757	38.09	16.507	73.66	50.97507	3.088088
0.70764	38.09	16.508	73.66	50.98081	3.088249
0.70772	38.09	16.509	73.67	50.98656	3.08841
0.7078	38.08	16.51	73.67	50.99231	3.088571
0.70788	38.08	16.511	73.67	50.99805	3.088732
0.70796	38.08	16.512	73.67	51.0038	3.088893
0.70803	38.07	16.513	73.68	51.00955	3.089054
0.70811	38.07	16.514	73.68	51.0153	3.089215
0.70819	38.07	16.515	73.68	51.02105	3.089376
0.70827	38.06	16.516	73.68	51.02681	3.089538
0.70835	38.06	16.517	73.69	51.03256	3.089699
0.70843	38.06	16.518	73.69	51.03831	3.08986
0.7085	38.06	16.519	73.69	51.04407	3.090022
0.70858	38.05	16.52	73.69	51.04983	3.090183
0.70866	38.05	16.521	73.7	51.05558	3.090344
0.70874	38.05	16.522	73.7	51.06134	3.090506
0.70882	38.04	16.523	73.7	51.0671	3.090668
0.70889	38.04	16.524	73.7	51.07286	3.090829
0.70897	38.04	16.525	73.71	51.07863	3.090991
0.70905	38.04	16.526	73.71	51.08439	3.091153
0.70913	38.03	16.527	73.71	51.09015	3.091314
0.70921	38.03	16.528	73.71	51.09592	3.091476
0.70929	38.03	16.529	73.72	51.10168	3.091638
0.70936	38.02	16.53	73.72	51.10745	3.0918
0.70944	38.02	16.531	73.72	51.11322	3.091962
0.70952	38.02	16.532	73.72	51.11899	3.092124
0.7096	38.02	16.533	73.73	51.12476	3.092286
0.70968	38.01	16.534	73.73	51.13053	3.092448
0.70976	38.01	16.535	73.73	51.1363	3.09261
0.70983	38.01	16.536	73.73	51.14207	3.092772
0.70991	38	16.537	73.73	51.14785	3.092934
0.70999	38	16.538	73.74	51.15362	3.093096
0.71007	38	16.539	73.74	51.1594	3.093258
0.71015	38	16.54	73.74	51.16517	3.09342
0.71023	37.99	16.541	73.74	51.17095	3.093583
0.7103	37.99	16.542	73.75	51.17673	3.093745
0.71038	37.99	16.543	73.75	51.18251	3.093907
0.71046	37.98	16.544	73.75	51.18829	3.09407
0.71054	37.98	16.545	73.75	51.19407	3.094232
0.71062	37.98	16.546	73.76	51.19986	3.094395
0.7107	37.98	16.547	73.76	51.20564	3.094557
0.71077	37.97	16.548	73.76	51.21142	3.09472
0.71085	37.97	16.549	73.76	51.21721	3.094882
0.71093	37.97	16.55	73.77	51.223	3.095045
0.71101	37.96	16.551	73.77	51.22878	3.095208
0.71109	37.96	16.552	73.77	51.23457	3.09537
0.71117	37.96	16.553	73.77	51.24036	3.095533
0.71125	37.95	16.554	73.78	51.24615	3.095696
0.71132	37.95	16.555	73.78	51.25195	3.095859
0.7114	37.95	16.556	73.78	51.25774	3.096022
0.71148	37.95	16.557	73.78	51.26353	3.096185
0.71156	37.94	16.558	73.79	51.26933	3.096348
0.71164	37.94	16.559	73.79	51.27512	3.096511
0.71172	37.94	16.56	73.79	51.28092	3.096674
0.71179	37.93	16.561	73.79	51.28672	3.096837
0.71187	37.93	16.562	73.8	51.29252	3.097
0.71195	37.93	16.563	73.8	51.29832	3.097164
0.71203	37.93	16.564	73.8	51.30412	3.097327
0.71211	37.92	16.565	73.8	51.30992	3.09749
0.71219	37.92	16.566	73.81	51.31573	3.097654
0.71227	37.92	16.567	73.81	51.32153	3.097817
0.71234	37.91	16.568	73.81	51.32733	3.09798
0.71242	37.91	16.569	73.81	51.33314	3.098144
0.7125	37.91	16.57	73.81	51.33895	3.098307
0.71258	37.91	16.571	73.82	51.34476	3.098471
0.71266	37.9	16.572	73.82	51.35057	3.098634
0.71274	37.9	16.573	73.82	51.35638	3.098798
0.71282	37.9	16.574	73.82	51.36219	3.098962
0.7129	37.89	16.575	73.83	51.368	3.099125
0.71297	37.89	16.576	73.83	51.37381	3.099289
0.71305	37.89	16.577	73.83	51.37963	3.099453
0.71313	37.89	16.578	73.83	51.38544	3.099616
0.71321	37.88	16.579	73.84	51.39126	3.09978
0.71329	37.88	16.58	73.84	51.39708	3.099945
0.71337	37.88	16.581	73.84	51.40289	3.100108
0.71345	37.87	16.582	73.84	51.40871	3.100272
0.71353	37.87	16.583	73.85	51.41453	3.100436
0.7136	37.87	16.584	73.85	51.42036	3.100601
0.71368	37.87	16.585	73.85	51.42618	3.100765
0.71376	37.86	16.586	73.85	51.432	3.100928
0.71384	37.86	16.587	73.86	51.43783	3.101093
0.71392	37.86	16.588	73.86	51.44365	3.101257
0.714	37.85	16.589	73.86	51.44948	3.101421
0.71408	37.85	16.59	73.86	51.45531	3.101586
0.71416	37.85	16.591	73.87	51.46113	3.10175
0.71423	37.85	16.592	73.87	51.46696	3.101914
0.71431	37.84	16.593	73.87	51.47279	3.102079
0.71439	37.84	16.594	73.87	51.47863	3.102244
0.71447	37.84	16.595	73.88	51.48446	3.102408
0.71455	37.83	16.596	73.88	51.49029	3.102572
0.71463	37.83	16.597	73.88	51.49613	3.102737
0.71471	37.83	16.598	73.88	51.50196	3.102902
0.71479	37.82	16.599	73.89	51.5078	3.103066
0.71487	37.82	16.6	73.89	51.51364	3.103231
0.71494	37.82	16.601	73.89	51.51947	3.103396
0.71502	37.82	16.602	73.89	51.52531	3.10356
0.7151	37.81	16.603	73.89	51.53116	3.103726
0.71518	37.81	16.604	73.9	51.537	3.103891
0.71526	37.81	16.605	73.9	51.54284	3.104055
0.71534	37.8	16.606	73.9	51.54868	3.10422
0.71542	37.8	16.607	73.9	51.55453	3.104386
0.7155	37.8	16.608	73.91	51.56037	3.10455
0.71558	37.8	16.609	73.91	51.56622	3.104716
0.71566	37.79	16.61	73.91	51.57207	3.104881
0.71573	37.79	16.611	73.91	51.57792	3.105046
0.71581	37.79	16.612	73.92	51.58377	3.105211
0.71589	37.78	16.613	73.92	51.58962	3.105377
0.71597	37.78	16.614	73.92	51.59547	3.105542
0.71605	37.78	16.615	73.92	51.60132	3.105707
0.71613	37.78	16.616	73.93	51.60718	3.105873
0.71621	37.77	16.617	73.93	51.61303	3.106038
0.71629	37.77	16.618	73.93	51.61889	3.106204
0.71637	37.77	16.619	73.93	51.62475	3.106369
0.71645	37.76	16.62	73.94	51.6306	3.106534
0.71653	37.76	16.621	73.94	51.63646	3.1067
0.7166	37.76	16.622	73.94	51.64232	3.106866
0.71668	37.76	16.623	73.94	51.64818	3.107031
0.71676	37.75	16.624	73.95	51.65405	3.107197
0.71684	37.75	16.625	73.95	51.65991	3.107363
0.71692	37.75	16.626	73.95	51.66577	3.107529
0.717	37.74	16.627	73.95	51.67164	3.107695
0.71708	37.74	16.628	73.96	51.67751	3.107861
0.71716	37.74	16.629	73.96	51.68337	3.108026
0.71724	37.74	16.63	73.96	51.68924	3.108192
0.71732	37.73	16.631	73.96	51.69511	3.108358
0.7174	37.73	16.632	73.97	51.70098	3.108525
0.71748	37.73	16.633	73.97	51.70685	3.108691
0.71756	37.72	16.634	73.97	51.71273	3.108857
0.71763	37.72	16.635	73.97	51.7186	3.109023
0.71771	37.72	16.636	73.97	51.72447	3.109189
0.71779	37.72	16.637	73.98	51.73035	3.109356
0.71787	37.71	16.638	73.98	51.73623	3.109522
0.71795	37.71	16.639	73.98	51.7421	3.109688
0.71803	37.71	16.64	73.98	51.74798	3.109855
0.71811	37.7	16.641	73.99	51.75386	3.110021
0.71819	37.7	16.642	73.99	51.75974	3.110187
0.71827	37.7	16.643	73.99	51.76562	3.110354
0.71835	37.7	16.644	73.99	51.77151	3.110521
0.71843	37.69	16.645	74	51.77739	3.110687
0.71851	37.69	16.646	74	51.78327	3.110854
0.71859	37.69	16.647	74	51.78916	3.111021
0.71867	37.68	16.648	74	51.79505	3.111188
0.71875	37.68	16.649	74.01	51.80094	3.111354
0.71882	37.68	16.65	74.01	51.80682	3.111521
0.7189	37.67	16.651	74.01	51.81271	3.111688
0.71898	37.67	16.652	74.01	51.81861	3.111855
0.71906	37.67	16.653	74.02	51.8245	3.112022
0.71914	37.67	16.654	74.02	51.83039	3.112189
0.71922	37.66	16.655	74.02	51.83628	3.112355
0.7193	37.66	16.656	74.02	51.84218	3.112523
0.71938	37.66	16.657	74.03	51.84808	3.11269
0.71946	37.65	16.658	74.03	51.85397	3.112857
0.71954	37.65	16.659	74.03	51.85987	3.113024
0.71962	37.65	16.66	74.03	51.86577	3.113191
0.7197	37.65	16.661	74.04	51.87167	3.113359
0.71978	37.64	16.662	74.04	51.87757	3.113526
0.71986	37.64	16.663	74.04	51.88347	3.113693
0.71994	37.64	16.664	74.04	51.88938	3.113861
0.72002	37.63	16.665	74.04	51.89528	3.114028
0.7201	37.63	16.666	74.05	51.90119	3.114196
0.72018	37.63	16.667	74.05	51.90709	3.114363
0.72026	37.63	16.668	74.05	51.913	3.114531
0.72034	37.62	16.669	74.05	51.91891	3.114699
0.72042	37.62	16.67	74.06	51.92482	3.114866
0.72049	37.62	16.671	74.06	51.93073	3.115034
0.72057	37.61	16.672	74.06	51.93664	3.115202
0.72065	37.61	16.673	74.06	51.94255	3.115369
0.72073	37.61	16.674	74.07	51.94847	3.115537
0.72081	37.61	16.675	74.07	51.95438	3.115705
0.72089	37.6	16.676	74.07	51.9603	3.115873
0.72097	37.6	16.677	74.07	51.96621	3.116041
0.72105	37.6	16.678	74.08	51.97213	3.116209
0.72113	37.59	16.679	74.08	51.97805	3.116377
0.72121	37.59	16.68	74.08	51.98397	3.116545
0.72129	37.59	16.681	74.08	51.98989	3.116713
0.72137	37.59	16.682	74.09	51.99581	3.116881
0.72145	37.58	16.683	74.09	52.00174	3.11705
0.72153	37.58	16.684	74.09	52.00766	3.117218
0.72161	37.58	16.685	74.09	52.01359	3.117386
0.72169	37.57	16.686	74.1	52.01951	3.117554
0.72177	37.57	16.687	74.1	52.02544	3.117723
0.72185	37.57	16.688	74.1	52.03137	3.117891
0.72193	37.57	16.689	74.1	52.0373	3.11806
0.72201	37.56	16.69	74.11	52.04323	3.118228
0.72209	37.56	16.691	74.11	52.04916	3.118397
0.72217	37.56	16.692	74.11	52.05509	3.118565
0.72225	37.55	16.693	74.11	52.06102	3.118734
0.72233	37.55	16.694	74.11	52.06696	3.118903
0.72241	37.55	16.695	74.12	52.07289	3.119071
0.72249	37.55	16.696	74.12	52.07883	3.11924
0.72257	37.54	16.697	74.12	52.08477	3.119409
0.72265	37.54	16.698	74.12	52.0907	3.119577
0.72273	37.54	16.699	74.13	52.09664	3.119746
0.72281	37.53	16.7	74.13	52.10258	3.119915
0.72289	37.53	16.701	74.13	52.10853	3.120084
0.72297	37.53	16.702	74.13	52.11447	3.120253
0.72305	37.53	16.703	74.14	52.12041	3.120422
0.72313	37.52	16.704	74.14	52.12636	3.120591
0.72321	37.52	16.705	74.14	52.1323	3.12076
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0.72433	37.48	16.719	74.18	52.21565	3.123132
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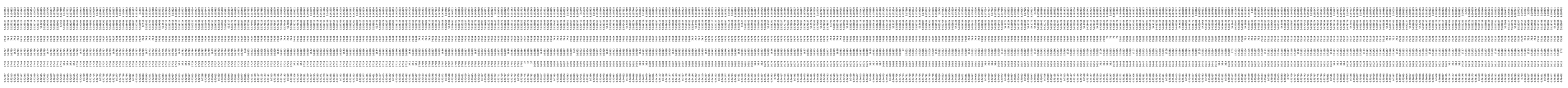

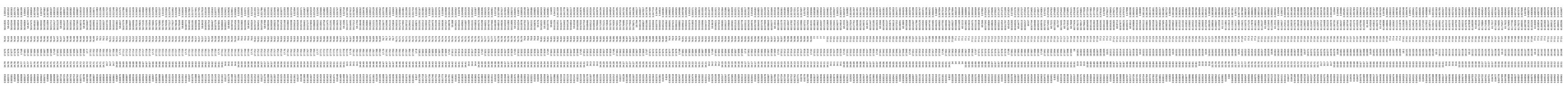

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0.87484	32.83	18.407	78.1	63.91855	3.472513
0.87493	32.83	18.408	78.1	63.92655	3.472759
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0.87513	32.82	18.41	78.1	63.94256	3.473251
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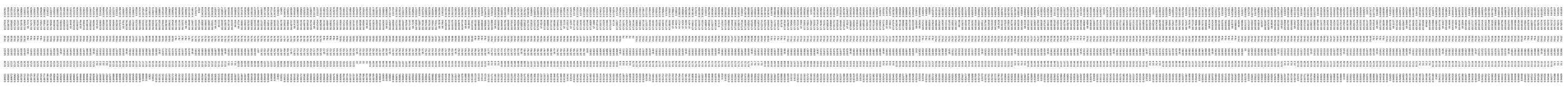

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1.309	26.71	21.998	82.08	101.24324	4.602384
1.3091	26.71	21.999	82.08	101.25529	4.602722
1.3092	26.71	22	82.08	101.26734	4.603061
1.3094	26.71	22.001	82.08	101.2794	4.6034
1.3095	26.71	22.002	82.08	101.29145	4.603738
1.3097	26.71	22.003	82.08	101.3035	4.604077
1.3098	26.71	22.004	82.08	101.31556	4.604416
1.3099	26.71	22.005	82.08	101.32761	4.604754
1.3101	26.71	22.006	82.08	101.33966	4.605092
1.3102	26.71	22.007	82.08	101.35172	4.605431
1.3104	26.71	22.008	82.08	101.36378	4.60577
1.3105	26.7	22.009	82.08	101.37583	4.606108
1.3106	26.7	22.01	82.08	101.38789	4.606447
1.3108	26.7	22.011	82.08	101.39995	4.606785
1.3109	26.7	22.012	82.08	101.41201	4.607124
1.311	26.7	22.013	82.08	101.42407	4.607462
1.3112	26.7	22.014	82.08	101.43613	4.607801
1.3113	26.7	22.015	82.08	101.44819	4.608139
1.3115	26.7	22.016	82.08	101.46025	4.608478
1.3116	26.7	22.017	82.08	101.47231	4.608816
1.3117	26.7	22.018	82.08	101.48437	4.609155
1.3119	26.7	22.019	82.08	101.49644	4.609494
1.312	26.7	22.02	82.08	101.5085	4.609832
1.3121	26.69	22.021	82.08	101.52057	4.610171
1.3123	26.69	22.022	82.08	101.53263	4.610509
1.3124	26.69	22.023	82.08	101.5447	4.610848
1.3126	26.69	22.024	82.08	101.55676	4.611186
1.3127	26.69	22.025	82.08	101.56883	4.611525
1.3128	26.69	22.026	82.08	101.5809	4.611863
1.313	26.69	22.027	82.08	101.59297	4.612202
1.3131	26.69	22.028	82.08	101.60503	4.61254
1.3132	26.69	22.029	82.08	101.6171	4.612878
1.3134	26.69	22.03	82.08	101.62917	4.613217
1.3135	26.69	22.031	82.08	101.64124	4.613555
1.3137	26.69	22.032	82.08	101.65331	4.613894
1.3138	26.68	22.033	82.08	101.66539	4.614233
1.3139	26.68	22.034	82.08	101.67746	4.614571
1.3141	26.68	22.035	82.08	101.68953	4.614909
1.3142	26.68	22.036	82.08	101.70161	4.615248
1.3143	26.68	22.037	82.08	101.71368	4.615587
1.3145	26.68	22.038	82.08	101.72575	4.615925
1.3146	26.68	22.039	82.08	101.73783	4.616263
1.3148	26.68	22.04	82.08	101.74991	4.616602
1.3149	26.68	22.041	82.08	101.76198	4.61694
1.315	26.68	22.042	82.08	101.77406	4.617279
1.3152	26.68	22.043	82.08	101.78614	4.617617
1.3153	26.68	22.044	82.08	101.79822	4.617956
1.3155	26.67	22.045	82.08	101.81029	4.618294
1.3156	26.67	22.046	82.08	101.82237	4.618632
1.3157	26.67	22.047	82.08	101.83445	4.618971
1.3159	26.67	22.048	82.08	101.84654	4.61931
1.316	26.67	22.049	82.08	101.85862	4.619648
1.3161	26.67	22.05	82.08	101.8707	4.619986
1.3163	26.67	22.051	82.08	101.88278	4.620325
1.3164	26.67	22.052	82.08	101.89487	4.620663
1.3166	26.67	22.053	82.08	101.90695	4.621002
1.3167	26.67	22.054	82.08	101.91903	4.62134
1.3168	26.67	22.055	82.08	101.93112	4.621679
1.317	26.67	22.056	82.08	101.9432	4.622017
1.3171	26.66	22.057	82.08	101.95529	4.622355
1.3172	26.66	22.058	82.08	101.96738	4.622694
1.3174	26.66	22.059	82.08	101.97947	4.623032
1.3175	26.66	22.06	82.08	101.99155	4.62337
1.3177	26.66	22.061	82.08	102.00364	4.623709
1.3178	26.66	22.062	82.08	102.01573	4.624047
1.3179	26.66	22.063	82.08	102.02782	4.624386
1.3181	26.66	22.064	82.08	102.03991	4.624724
1.3182	26.66	22.065	82.08	102.052	4.625062
1.3184	26.66	22.066	82.08	102.0641	4.625401
1.3185	26.66	22.067	82.08	102.07619	4.625739
1.3186	26.66	22.068	82.08	102.08828	4.626078
1.3188	26.65	22.069	82.08	102.10037	4.626416
1.3189	26.65	22.07	82.08	102.11247	4.626754
1.319	26.65	22.071	82.08	102.12456	4.627093
1.3192	26.65	22.072	82.08	102.13666	4.627431
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1.3196	26.65	22.075	82.08	102.17295	4.628446
1.3197	26.65	22.076	82.08	102.18505	4.628785
1.3199	26.65	22.077	82.08	102.19715	4.629123
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1.3201	26.65	22.079	82.08	102.22134	4.629799
1.3203	26.65	22.08	82.08	102.23344	4.630138
1.3204	26.65	22.081	82.08	102.24555	4.630476
1.3206	26.64	22.082	82.08	102.25765	4.630815
1.3207	26.64	22.083	82.08	102.26975	4.631153
1.3208	26.64	22.084	82.08	102.28185	4.631491
1.321	26.64	22.085	82.08	102.29396	4.63183
1.3211	26.64	22.086	82.08	102.30606	4.632168
1.3213	26.64	22.087	82.08	102.31816	4.632506
1.3214	26.64	22.088	82.08	102.33027	4.632845
1.3215	26.64	22.089	82.08	102.34237	4.633183
1.3217	26.64	22.09	82.08	102.35448	4.633521
1.3218	26.64	22.091	82.08	102.36659	4.633859
1.3219	26.64	22.092	82.08	102.3787	4.634198
1.3221	26.64	22.093	82.08	102.3908	4.634536
1.3222	26.63	22.094	82.08	102.40291	4.634874
1.3224	26.63	22.095	82.08	102.41502	4.635212
1.3225	26.63	22.096	82.08	102.42713	4.635551
1.3226	26.63	22.097	82.08	102.43924	4.635889
1.3228	26.63	22.098	82.08	102.45135	4.636227
1.3229	26.63	22.099	82.08	102.46347	4.636566
1.3231	26.63	22.1	82.08	102.47558	4.636904
1.3232	26.63	22.101	82.08	102.48769	4.637242
1.3233	26.63	22.102	82.08	102.4998	4.63758
1.3235	26.63	22.103	82.08	102.51192	4.637919
1.3236	26.63	22.104	82.08	102.52403	4.638257
1.3237	26.63	22.105	82.08	102.53615	4.638595
1.3239	26.62	22.106	82.08	102.54826	4.638933
1.324	26.62	22.107	82.08	102.56038	4.639272
1.3242	26.62	22.108	82.08	102.5725	4.63961
1.3243	26.62	22.109	82.08	102.58462	4.639948
1.3244	26.62	22.11	82.08	102.59673	4.640286
1.3246	26.62	22.111	82.08	102.60885	4.640625
1.3247	26.62	22.112	82.08	102.62097	4.640963
1.3249	26.62	22.113	82.08	102.63309	4.641301
1.325	26.62	22.114	82.08	102.64521	4.641639
1.3251	26.62	22.115	82.08	102.65734	4.641978
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1.3255	26.62	22.118	82.09	102.6937	4.642992
1.3257	26.61	22.119	82.09	102.70583	4.643331
1.3258	26.61	22.12	82.09	102.71795	4.643669
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1.3261	26.61	22.122	82.09	102.7422	4.644345
1.3262	26.61	22.123	82.09	102.75433	4.644683
1.3264	26.61	22.124	82.09	102.76645	4.645021
1.3265	26.61	22.125	82.09	102.77858	4.64536
1.3267	26.61	22.126	82.09	102.79071	4.645698
1.3268	26.61	22.127	82.09	102.80284	4.646036
1.3269	26.61	22.128	82.09	102.81497	4.646374
1.3271	26.61	22.129	82.09	102.8271	4.646712
1.3272	26.61	22.13	82.09	102.83923	4.647051
1.3273	26.6	22.131	82.09	102.85136	4.647389
1.3275	26.6	22.132	82.09	102.86349	4.647727
1.3276	26.6	22.133	82.09	102.87562	4.648065
1.3278	26.6	22.134	82.09	102.88775	4.648403
1.3279	26.6	22.135	82.09	102.89989	4.648741
1.328	26.6	22.136	82.09	102.91202	4.649079
1.3282	26.6	22.137	82.09	102.92416	4.649418
1.3283	26.6	22.138	82.09	102.93629	4.649756
1.3285	26.6	22.139	82.09	102.94843	4.650094
1.3286	26.6	22.14	82.09	102.96056	4.650432
1.3287	26.6	22.141	82.09	102.9727	4.65077
1.3289	26.6	22.142	82.09	102.98484	4.651108
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1.3291	26.59	22.144	82.09	103.00911	4.651784
1.3293	26.59	22.145	82.09	103.02125	4.652122
1.3294	26.59	22.146	82.09	103.03339	4.65246
1.3296	26.59	22.147	82.09	103.04553	4.652799
1.3297	26.59	22.148	82.09	103.05767	4.653137
1.3298	26.59	22.149	82.09	103.06982	4.653475
1.33	26.59	22.15	82.09	103.08196	4.653813
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1.3304	26.59	22.153	82.09	103.11839	4.654827
1.3305	26.59	22.154	82.09	103.13053	4.655165
1.3307	26.59	22.155	82.09	103.14268	4.655503
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1.3316	26.58	22.162	82.09	103.22771	4.65787
1.3318	26.58	22.163	82.09	103.23986	4.658208
1.3319	26.58	22.164	82.09	103.25201	4.658546
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1.3322	26.58	22.166	82.09	103.27631	4.659222
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1.3326	26.57	22.169	82.09	103.31277	4.660236
1.3328	26.57	22.17	82.09	103.32493	4.660574
1.3329	26.57	22.171	82.09	103.33708	4.660912
1.333	26.57	22.172	82.09	103.34924	4.66125
1.3332	26.57	22.173	82.09	103.36139	4.661588
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1.3346	26.56	22.183	82.09	103.48298	4.664968
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1.3348	26.56	22.185	82.09	103.50731	4.665644
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1.3355	26.56	22.19	82.09	103.56813	4.667333
1.3357	26.56	22.191	82.09	103.5803	4.667672
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1.3369	26.55	22.2	82.09	103.68982	4.670713
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1.3372	26.55	22.202	82.09	103.71417	4.671389
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1.3376	26.55	22.205	82.09	103.75069	4.672402
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1.3385	26.54	22.211	82.09	103.82375	4.674429
1.3386	26.54	22.212	82.09	103.83593	4.674767
1.3387	26.54	22.213	82.09	103.84811	4.675105
1.3389	26.54	22.214	82.09	103.86029	4.675443
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1.3394	26.54	22.218	82.09	103.90901	4.676794
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1.3439	26.51	22.25	82.09	104.29915	4.687602
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1.3447	26.51	22.256	82.09	104.37236	4.689628
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1.3465	26.5	22.269	82.09	104.53107	4.694017
1.3467	26.5	22.27	82.09	104.54328	4.694355
1.3468	26.5	22.271	82.09	104.5555	4.694693
1.347	26.49	22.272	82.09	104.56771	4.69503
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1.3474	26.49	22.275	82.09	104.60435	4.696043
1.3475	26.49	22.276	82.09	104.61657	4.69638
1.3477	26.49	22.277	82.09	104.62879	4.696718
1.3478	26.49	22.278	82.09	104.641	4.697055
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1.3481	26.49	22.28	82.09	104.66544	4.697731
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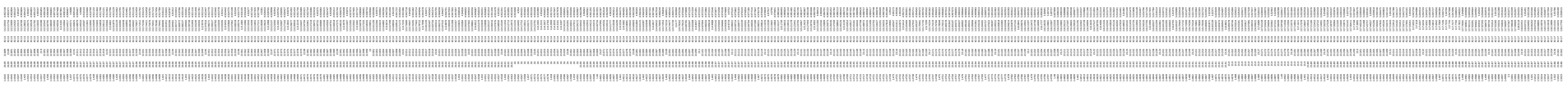

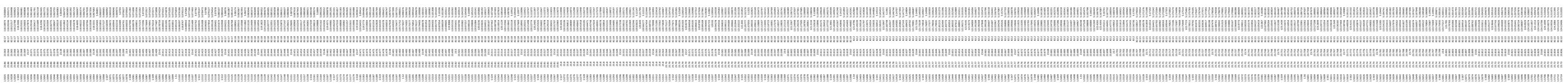

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1.5922	25.71	23.978	82.24	126.05816	5.257242
1.5923	25.7	23.979	82.24	126.07101	5.257559
1.5925	25.7	23.98	82.24	126.08387	5.257876
1.5926	25.7	23.981	82.24	126.09673	5.258193
1.5927	25.7	23.982	82.24	126.10959	5.25851
1.5929	25.7	23.983	82.24	126.12244	5.258827
1.593	25.7	23.984	82.24	126.1353	5.259144
1.5932	25.7	23.985	82.24	126.14816	5.25946
1.5933	25.7	23.986	82.24	126.16102	5.259777
1.5935	25.7	23.987	82.24	126.17387	5.260094
1.5936	25.7	23.988	82.24	126.18673	5.260411
1.5938	25.7	23.989	82.24	126.19959	5.260727
1.5939	25.7	23.99	82.24	126.21245	5.261044
1.5941	25.7	23.991	82.24	126.22531	5.261361
1.5942	25.7	23.992	82.24	126.23817	5.261678
1.5944	25.7	23.993	82.24	126.25102	5.261994
1.5945	25.7	23.994	82.24	126.26388	5.262311
1.5946	25.7	23.995	82.24	126.27674	5.262627
1.5948	25.7	23.996	82.24	126.2896	5.262944
1.5949	25.7	23.997	82.24	126.30246	5.26326
1.5951	25.7	23.998	82.24	126.31532	5.263577
1.5952	25.7	23.999	82.24	126.32818	5.263893
1.5954	25.7	24	82.24	126.34104	5.26421
1.5955	25.7	24.001	82.24	126.3539	5.264526
1.5957	25.7	24.002	82.24	126.36676	5.264843
1.5958	25.7	24.003	82.24	126.37962	5.265159
1.596	25.7	24.004	82.24	126.39248	5.265476
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1.5963	25.7	24.006	82.24	126.4182	5.266108
1.5964	25.7	24.007	82.24	126.43106	5.266425
1.5966	25.7	24.008	82.24	126.44392	5.266741
1.5967	25.7	24.009	82.24	126.45678	5.267057
1.5968	25.7	24.01	82.24	126.46964	5.267374
1.597	25.7	24.011	82.24	126.4825	5.26769
1.5971	25.7	24.012	82.24	126.49536	5.268006
1.5973	25.7	24.013	82.24	126.50823	5.268323
1.5974	25.7	24.014	82.24	126.52109	5.268639
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1.5977	25.7	24.016	82.24	126.54681	5.269271
1.5979	25.7	24.017	82.24	126.55967	5.269587
1.598	25.7	24.018	82.24	126.57253	5.269903
1.5982	25.7	24.019	82.24	126.5854	5.270219
1.5983	25.7	24.02	82.24	126.59826	5.270535
1.5985	25.7	24.021	82.25	126.61112	5.270851
1.5986	25.7	24.022	82.25	126.62398	5.271167
1.5987	25.7	24.023	82.25	126.63685	5.271484
1.5989	25.7	24.024	82.25	126.64971	5.271799
1.599	25.7	24.025	82.25	126.66257	5.272115
1.5992	25.7	24.026	82.25	126.67543	5.272431
1.5993	25.7	24.027	82.25	126.6883	5.272747
1.5995	25.7	24.028	82.25	126.70116	5.273063
1.5996	25.7	24.029	82.25	126.71402	5.273379
1.5998	25.7	24.03	82.25	126.72689	5.273695
1.5999	25.7	24.031	82.25	126.73975	5.274011
1.6001	25.7	24.032	82.25	126.75261	5.274326
1.6002	25.7	24.033	82.25	126.76548	5.274642
1.6004	25.7	24.034	82.25	126.77834	5.274958
1.6005	25.7	24.035	82.25	126.79121	5.275274
1.6007	25.7	24.036	82.25	126.80407	5.27559
1.6008	25.7	24.037	82.25	126.81694	5.275905
1.6009	25.7	24.038	82.25	126.8298	5.276221
1.6011	25.7	24.039	82.25	126.84266	5.276536
1.6012	25.7	24.04	82.25	126.85553	5.276852
1.6014	25.7	24.041	82.25	126.86839	5.277168
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1.6017	25.7	24.043	82.25	126.89412	5.277799
1.6018	25.7	24.044	82.25	126.90699	5.278115
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1.6021	25.7	24.046	82.25	126.93272	5.278746
1.6023	25.7	24.047	82.25	126.94558	5.279061
1.6024	25.7	24.048	82.25	126.95845	5.279377
1.6026	25.7	24.049	82.25	126.97132	5.279692
1.6027	25.7	24.05	82.25	126.98418	5.280007
1.6029	25.7	24.051	82.25	126.99705	5.280323
1.603	25.7	24.052	82.25	127.00991	5.280638
1.6031	25.7	24.053	82.25	127.02278	5.280954
1.6033	25.7	24.054	82.25	127.03565	5.281269
1.6034	25.7	24.055	82.25	127.04851	5.281584
1.6036	25.7	24.056	82.25	127.06138	5.2819
1.6037	25.7	24.057	82.25	127.07424	5.282215
1.6039	25.7	24.058	82.25	127.08711	5.28253
1.604	25.69	24.059	82.25	127.09998	5.282846
1.6042	25.69	24.06	82.25	127.11285	5.283161
1.6043	25.69	24.061	82.25	127.12571	5.283476
1.6045	25.69	24.062	82.25	127.13858	5.283791
1.6046	25.69	24.063	82.25	127.15145	5.284106
1.6048	25.69	24.064	82.25	127.16431	5.284421
1.6049	25.69	24.065	82.25	127.17718	5.284736
1.6051	25.69	24.066	82.25	127.19005	5.285052
1.6052	25.69	24.067	82.25	127.20292	5.285367
1.6053	25.69	24.068	82.25	127.21578	5.285681
1.6055	25.69	24.069	82.25	127.22865	5.285997
1.6056	25.69	24.07	82.25	127.24152	5.286312
1.6058	25.69	24.071	82.25	127.25439	5.286627
1.6059	25.69	24.072	82.25	127.26726	5.286942
1.6061	25.69	24.073	82.25	127.28013	5.287257
1.6062	25.69	24.074	82.25	127.29299	5.287571
1.6064	25.69	24.075	82.25	127.30586	5.287886
1.6065	25.69	24.076	82.25	127.31873	5.288201
1.6067	25.69	24.077	82.25	127.3316	5.288516
1.6068	25.69	24.078	82.25	127.34447	5.288831
1.607	25.69	24.079	82.25	127.35734	5.289146
1.6071	25.69	24.08	82.25	127.37021	5.289461
1.6072	25.69	24.081	82.25	127.38308	5.289775
1.6074	25.69	24.082	82.25	127.39595	5.29009
1.6075	25.69	24.083	82.25	127.40882	5.290405
1.6077	25.69	24.084	82.25	127.42168	5.290719
1.6078	25.69	24.085	82.25	127.43455	5.291034
1.608	25.69	24.086	82.25	127.44742	5.291349
1.6081	25.69	24.087	82.25	127.46029	5.291663
1.6083	25.69	24.088	82.25	127.47316	5.291978
1.6084	25.69	24.089	82.25	127.48603	5.292292
1.6086	25.69	24.09	82.25	127.4989	5.292607
1.6087	25.69	24.091	82.25	127.51177	5.292921
1.6089	25.69	24.092	82.25	127.52464	5.293236
1.609	25.69	24.093	82.25	127.53752	5.293551
1.6092	25.69	24.094	82.25	127.55039	5.293865
1.6093	25.69	24.095	82.25	127.56326	5.29418
1.6094	25.69	24.096	82.25	127.57613	5.294494
1.6096	25.69	24.097	82.25	127.589	5.294808
1.6097	25.69	24.098	82.25	127.60187	5.295123
1.6099	25.69	24.099	82.25	127.61474	5.295437
1.61	25.69	24.1	82.25	127.62761	5.295751
1.6102	25.69	24.101	82.25	127.64048	5.296066
1.6103	25.69	24.102	82.25	127.65335	5.29638
1.6105	25.69	24.103	82.25	127.66623	5.296695
1.6106	25.69	24.104	82.25	127.6791	5.297009
1.6108	25.69	24.105	82.25	127.69197	5.297323
1.6109	25.69	24.106	82.25	127.70484	5.297637
1.6111	25.69	24.107	82.25	127.71771	5.297951
1.6112	25.69	24.108	82.25	127.73058	5.298265
1.6114	25.69	24.109	82.25	127.74346	5.29858
1.6115	25.69	24.11	82.25	127.75633	5.298894
1.6116	25.69	24.111	82.25	127.7692	5.299208
1.6118	25.69	24.112	82.25	127.78207	5.299522
1.6119	25.69	24.113	82.25	127.79495	5.299836
1.6121	25.69	24.114	82.25	127.80782	5.30015
1.6122	25.69	24.115	82.25	127.82069	5.300464
1.6124	25.69	24.116	82.25	127.83356	5.300778
1.6125	25.69	24.117	82.25	127.84644	5.301092
1.6127	25.69	24.118	82.25	127.85931	5.301406
1.6128	25.69	24.119	82.25	127.87218	5.30172
1.613	25.69	24.12	82.25	127.88506	5.302034
1.6131	25.69	24.121	82.25	127.89793	5.302348
1.6133	25.69	24.122	82.25	127.9108	5.302661
1.6134	25.69	24.123	82.25	127.92368	5.302976
1.6136	25.69	24.124	82.25	127.93655	5.303289
1.6137	25.69	24.125	82.26	127.94942	5.303603
1.6138	25.69	24.126	82.26	127.9623	5.303917
1.614	25.69	24.127	82.26	127.97517	5.304231
1.6141	25.69	24.128	82.26	127.98804	5.304544
1.6143	25.69	24.129	82.26	128.00092	5.304858
1.6144	25.69	24.13	82.26	128.01379	5.305172
1.6146	25.69	24.131	82.26	128.02667	5.305485
1.6147	25.69	24.132	82.26	128.03954	5.305799
1.6149	25.69	24.133	82.26	128.05242	5.306113
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1.6152	25.69	24.135	82.26	128.07816	5.30674
1.6153	25.69	24.136	82.26	128.09104	5.307053
1.6155	25.69	24.137	82.26	128.10391	5.307367
1.6156	25.69	24.138	82.26	128.11679	5.30768
1.6158	25.69	24.139	82.26	128.12966	5.307994
1.6159	25.69	24.14	82.26	128.14254	5.308307
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1.6162	25.69	24.142	82.26	128.16829	5.308934
1.6163	25.69	24.143	82.26	128.18116	5.309247
1.6165	25.69	24.144	82.26	128.19404	5.309561
1.6166	25.69	24.145	82.26	128.20692	5.309875
1.6168	25.69	24.146	82.26	128.21979	5.310188
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1.6171	25.69	24.148	82.26	128.24554	5.310814
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1.6179	25.69	24.154	82.26	128.3228	5.312694
1.6181	25.69	24.155	82.26	128.33567	5.313006
1.6182	25.69	24.156	82.26	128.34855	5.31332
1.6184	25.69	24.157	82.26	128.36143	5.313633
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1.6187	25.69	24.159	82.26	128.38718	5.314259
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1.619	25.69	24.161	82.26	128.41293	5.314885
1.6191	25.69	24.162	82.26	128.42581	5.315198
1.6193	25.69	24.163	82.26	128.43869	5.315511
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1.6196	25.69	24.165	82.26	128.46444	5.316137
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1.6199	25.69	24.167	82.26	128.4902	5.316763
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1.6203	25.69	24.17	82.26	128.52883	5.317701
1.6204	25.69	24.171	82.26	128.54171	5.318014
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1.6207	25.69	24.173	82.26	128.56746	5.318639
1.6209	25.69	24.174	82.26	128.58034	5.318952
1.621	25.69	24.175	82.26	128.59322	5.319265
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1.6213	25.68	24.177	82.26	128.61897	5.31989
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1.6216	25.68	24.179	82.26	128.64473	5.320515
1.6218	25.68	24.18	82.26	128.65761	5.320828
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1.6221	25.68	24.182	82.26	128.68337	5.321453
1.6222	25.68	24.183	82.26	128.69625	5.321765
1.6223	25.68	24.184	82.26	128.70912	5.322077
1.6225	25.68	24.185	82.26	128.722	5.32239
1.6226	25.68	24.186	82.26	128.73488	5.322702
1.6228	25.68	24.187	82.26	128.74776	5.323015
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1.6237	25.68	24.193	82.26	128.82504	5.324889
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1.6267	25.68	24.214	82.27	129.09552	5.331441
1.6269	25.68	24.215	82.27	129.1084	5.331753
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1.6278	25.68	24.221	82.27	129.18569	5.333623
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1.6289	25.68	24.229	82.27	129.28874	5.336115
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1.6294	25.68	24.232	82.27	129.32739	5.33705
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1.6297	25.68	24.234	82.27	129.35315	5.337672
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1.6303	25.68	24.238	82.27	129.40468	5.338917
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1.6307	25.68	24.241	82.27	129.44333	5.339851
1.6309	25.68	24.242	82.27	129.45621	5.340162
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1.6316	25.68	24.247	82.27	129.52062	5.341717
1.6317	25.68	24.248	82.27	129.53351	5.342029
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1.6322	25.68	24.251	82.27	129.57216	5.342962
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1.6328	25.68	24.255	82.27	129.62369	5.344205
1.6329	25.68	24.256	82.27	129.63657	5.344516
1.6331	25.68	24.257	82.27	129.64946	5.344827
1.6332	25.68	24.258	82.27	129.66234	5.345137
1.6333	25.68	24.259	82.27	129.67522	5.345448
1.6335	25.68	24.26	82.27	129.68811	5.345759
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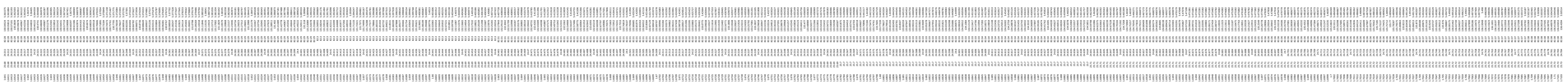

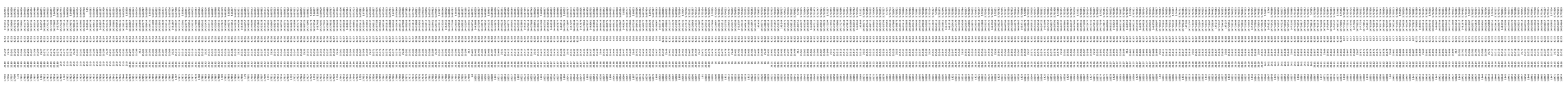

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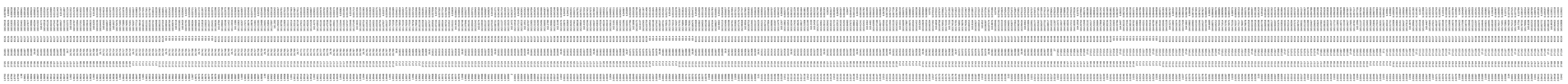

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2.2176	30.43	28.602	84.84	181.92791	6.360671
2.2178	30.44	28.603	84.84	181.93823	6.360809
2.2179	30.44	28.604	84.84	181.94854	6.360947
2.218	30.44	28.605	84.84	181.95885	6.361085
2.2181	30.44	28.606	84.84	181.96916	6.361224
2.2182	30.45	28.607	84.84	181.97947	6.361362
2.2183	30.45	28.608	84.84	181.98978	6.3615
2.2184	30.45	28.609	84.85	182.00009	6.361638
2.2185	30.45	28.61	84.85	182.01039	6.361775
2.2186	30.46	28.611	84.85	182.0207	6.361913
2.2188	30.46	28.612	84.85	182.031	6.362051
2.2189	30.46	28.613	84.85	182.0413	6.362189
2.219	30.46	28.614	84.85	182.05161	6.362326
2.2191	30.46	28.615	84.85	182.06191	6.362464
2.2192	30.47	28.616	84.85	182.07221	6.362602
2.2193	30.47	28.617	84.85	182.08251	6.362739
2.2194	30.47	28.618	84.85	182.0928	6.362877
2.2195	30.47	28.619	84.86	182.1031	6.363014
2.2196	30.48	28.62	84.86	182.1134	6.363152
2.2198	30.48	28.621	84.86	182.12369	6.363289
2.2199	30.48	28.622	84.86	182.13398	6.363426
2.22	30.48	28.623	84.86	182.14428	6.363564
2.2201	30.49	28.624	84.86	182.15457	6.363701
2.2202	30.49	28.625	84.86	182.16486	6.363838
2.2203	30.49	28.626	84.86	182.17515	6.363975
2.2204	30.49	28.627	84.86	182.18543	6.364112
2.2205	30.5	28.628	84.86	182.19572	6.364249
2.2207	30.5	28.629	84.87	182.20601	6.364386
2.2208	30.5	28.63	84.87	182.21629	6.364523
2.2209	30.5	28.631	84.87	182.22657	6.36466
2.221	30.5	28.632	84.87	182.23686	6.364797
2.2211	30.51	28.633	84.87	182.24714	6.364933
2.2212	30.51	28.634	84.87	182.25742	6.36507
2.2213	30.51	28.635	84.87	182.2677	6.365207
2.2214	30.51	28.636	84.87	182.27797	6.365343
2.2215	30.52	28.637	84.87	182.28825	6.36548
2.2217	30.52	28.638	84.87	182.29853	6.365617
2.2218	30.52	28.639	84.87	182.3088	6.365753
2.2219	30.52	28.64	84.88	182.31908	6.36589
2.222	30.53	28.641	84.88	182.32935	6.366026
2.2221	30.53	28.642	84.88	182.33962	6.366162
2.2222	30.53	28.643	84.88	182.34989	6.366299
2.2223	30.53	28.644	84.88	182.36016	6.366435
2.2224	30.54	28.645	84.88	182.37043	6.366571
2.2225	30.54	28.646	84.88	182.3807	6.366707
2.2227	30.54	28.647	84.88	182.39096	6.366843
2.2228	30.54	28.648	84.88	182.40123	6.36698
2.2229	30.55	28.649	84.88	182.41149	6.367115
2.223	30.55	28.65	84.89	182.42175	6.367251
2.2231	30.55	28.651	84.89	182.43202	6.367388
2.2232	30.55	28.652	84.89	182.44228	6.367523
2.2233	30.55	28.653	84.89	182.45254	6.367659
2.2234	30.56	28.654	84.89	182.4628	6.367795
2.2235	30.56	28.655	84.89	182.47305	6.367931
2.2237	30.56	28.656	84.89	182.48331	6.368066
2.2238	30.56	28.657	84.89	182.49356	6.368202
2.2239	30.57	28.658	84.89	182.50382	6.368338
2.224	30.57	28.659	84.89	182.51407	6.368473
2.2241	30.57	28.66	84.9	182.52432	6.368609
2.2242	30.57	28.661	84.9	182.53457	6.368744
2.2243	30.58	28.662	84.9	182.54482	6.368879
2.2244	30.58	28.663	84.9	182.55507	6.369015
2.2245	30.58	28.664	84.9	182.56532	6.36915
2.2247	30.58	28.665	84.9	182.57557	6.369286
2.2248	30.59	28.666	84.9	182.58581	6.369421
2.2249	30.59	28.667	84.9	182.59606	6.369556
2.225	30.59	28.668	84.9	182.6063	6.369691
2.2251	30.59	28.669	84.9	182.61654	6.369826
2.2252	30.59	28.67	84.9	182.62678	6.369961
2.2253	30.6	28.671	84.91	182.63702	6.370096
2.2254	30.6	28.672	84.91	182.64726	6.370231
2.2255	30.6	28.673	84.91	182.6575	6.370366
2.2257	30.6	28.674	84.91	182.66774	6.370501
2.2258	30.61	28.675	84.91	182.67797	6.370635
2.2259	30.61	28.676	84.91	182.68821	6.37077
2.226	30.61	28.677	84.91	182.69844	6.370905
2.2261	30.61	28.678	84.91	182.70867	6.371039
2.2262	30.62	28.679	84.91	182.7189	6.371174
2.2263	30.62	28.68	84.91	182.72914	6.371309
2.2264	30.62	28.681	84.92	182.73937	6.371443
2.2265	30.62	28.682	84.92	182.74959	6.371578
2.2266	30.63	28.683	84.92	182.75982	6.371712
2.2268	30.63	28.684	84.92	182.77005	6.371847
2.2269	30.63	28.685	84.92	182.78027	6.371981
2.227	30.63	28.686	84.92	182.7905	6.372115
2.2271	30.64	28.687	84.92	182.80072	6.372249
2.2272	30.64	28.688	84.92	182.81094	6.372384
2.2273	30.64	28.689	84.92	182.82116	6.372518
2.2274	30.64	28.69	84.92	182.83138	6.372652
2.2275	30.65	28.691	84.93	182.8416	6.372786
2.2276	30.65	28.692	84.93	182.85181	6.37292
2.2278	30.65	28.693	84.93	182.86203	6.373054
2.2279	30.65	28.694	84.93	182.87225	6.373188
2.228	30.65	28.695	84.93	182.88246	6.373321
2.2281	30.66	28.696	84.93	182.89267	6.373455
2.2282	30.66	28.697	84.93	182.90288	6.373589
2.2283	30.66	28.698	84.93	182.9131	6.373723
2.2284	30.66	28.699	84.93	182.9233	6.373856
2.2285	30.67	28.7	84.93	182.93351	6.37399
2.2286	30.67	28.701	84.93	182.94372	6.374124
2.2287	30.67	28.702	84.94	182.95393	6.374257
2.2289	30.67	28.703	84.94	182.96413	6.37439
2.229	30.68	28.704	84.94	182.97434	6.374524
2.2291	30.68	28.705	84.94	182.98454	6.374657
2.2292	30.68	28.706	84.94	182.99474	6.374791
2.2293	30.68	28.707	84.94	183.00494	6.374924
2.2294	30.69	28.708	84.94	183.01514	6.375057
2.2295	30.69	28.709	84.94	183.02534	6.37519
2.2296	30.69	28.71	84.94	183.03554	6.375324
2.2297	30.69	28.711	84.94	183.04573	6.375456
2.2299	30.7	28.712	84.95	183.05593	6.37559
2.23	30.7	28.713	84.95	183.06612	6.375722
2.2301	30.7	28.714	84.95	183.07632	6.375856
2.2302	30.7	28.715	84.95	183.08651	6.375989
2.2303	30.71	28.716	84.95	183.0967	6.376121
2.2304	30.71	28.717	84.95	183.10689	6.376254
2.2305	30.71	28.718	84.95	183.11708	6.376387
2.2306	30.71	28.719	84.95	183.12727	6.37652
2.2307	30.71	28.72	84.95	183.13745	6.376652
2.2308	30.72	28.721	84.95	183.14764	6.376785
2.231	30.72	28.722	84.96	183.15782	6.376917
2.2311	30.72	28.723	84.96	183.16801	6.37705
2.2312	30.72	28.724	84.96	183.17819	6.377182
2.2313	30.73	28.725	84.96	183.18837	6.377315
2.2314	30.73	28.726	84.96	183.19855	6.377447
2.2315	30.73	28.727	84.96	183.20873	6.37758
2.2316	30.73	28.728	84.96	183.21891	6.377712
2.2317	30.74	28.729	84.96	183.22909	6.377844
2.2318	30.74	28.73	84.96	183.23926	6.377976
2.2319	30.74	28.731	84.96	183.24944	6.378109
2.2321	30.74	28.732	84.97	183.25961	6.378241
2.2322	30.75	28.733	84.97	183.26978	6.378373
2.2323	30.75	28.734	84.97	183.27995	6.378505
2.2324	30.75	28.735	84.97	183.29012	6.378637
2.2325	30.75	28.736	84.97	183.30029	6.378768
2.2326	30.76	28.737	84.97	183.31046	6.3789
2.2327	30.76	28.738	84.97	183.32063	6.379032
2.2328	30.76	28.739	84.97	183.33079	6.379164
2.2329	30.76	28.74	84.97	183.34096	6.379296
2.233	30.77	28.741	84.97	183.35112	6.379427
2.2332	30.77	28.742	84.98	183.36128	6.379559
2.2333	30.77	28.743	84.98	183.37145	6.379691
2.2334	30.77	28.744	84.98	183.38161	6.379822
2.2335	30.78	28.745	84.98	183.39177	6.379954
2.2336	30.78	28.746	84.98	183.40192	6.380085
2.2337	30.78	28.747	84.98	183.41208	6.380216
2.2338	30.78	28.748	84.98	183.42224	6.380348
2.2339	30.79	28.749	84.98	183.43239	6.380479
2.234	30.79	28.75	84.98	183.44255	6.38061
2.2341	30.79	28.751	84.98	183.4527	6.380742
2.2343	30.79	28.752	84.98	183.46285	6.380873
2.2344	30.79	28.753	84.99	183.473	6.381004
2.2345	30.8	28.754	84.99	183.48315	6.381135
2.2346	30.8	28.755	84.99	183.4933	6.381266
2.2347	30.8	28.756	84.99	183.50345	6.381397
2.2348	30.8	28.757	84.99	183.51359	6.381528
2.2349	30.81	28.758	84.99	183.52374	6.381659
2.235	30.81	28.759	84.99	183.53388	6.381789
2.2351	30.81	28.76	84.99	183.54402	6.38192
2.2352	30.81	28.761	84.99	183.55417	6.382051
2.2353	30.82	28.762	84.99	183.56431	6.382182
2.2355	30.82	28.763	85	183.57445	6.382312
2.2356	30.82	28.764	85	183.58458	6.382443
2.2357	30.82	28.765	85	183.59472	6.382573
2.2358	30.83	28.766	85	183.60486	6.382704
2.2359	30.83	28.767	85	183.61499	6.382834
2.236	30.83	28.768	85	183.62513	6.382965
2.2361	30.83	28.769	85	183.63526	6.383095
2.2362	30.84	28.77	85	183.64539	6.383225
2.2363	30.84	28.771	85	183.65552	6.383355
2.2364	30.84	28.772	85	183.66565	6.383486
2.2366	30.84	28.773	85.01	183.67578	6.383616
2.2367	30.85	28.774	85.01	183.68591	6.383746
2.2368	30.85	28.775	85.01	183.69604	6.383876
2.2369	30.85	28.776	85.01	183.70616	6.384006
2.237	30.85	28.777	85.01	183.71629	6.384136
2.2371	30.86	28.778	85.01	183.72641	6.384266
2.2372	30.86	28.779	85.01	183.73653	6.384396
2.2373	30.86	28.78	85.01	183.74665	6.384526
2.2374	30.86	28.781	85.01	183.75677	6.384656
2.2375	30.87	28.782	85.01	183.76689	6.384785
2.2376	30.87	28.783	85.02	183.77701	6.384915
2.2378	30.87	28.784	85.02	183.78713	6.385045
2.2379	30.87	28.785	85.02	183.79724	6.385174
2.238	30.88	28.786	85.02	183.80736	6.385304
2.2381	30.88	28.787	85.02	183.81747	6.385433
2.2382	30.88	28.788	85.02	183.82758	6.385563
2.2383	30.88	28.789	85.02	183.83769	6.385692
2.2384	30.89	28.79	85.02	183.8478	6.385821
2.2385	30.89	28.791	85.02	183.85791	6.385951
2.2386	30.89	28.792	85.02	183.86802	6.38608
2.2387	30.89	28.793	85.03	183.87813	6.386209
2.2388	30.9	28.794	85.03	183.88823	6.386338
2.239	30.9	28.795	85.03	183.89834	6.386468
2.2391	30.9	28.796	85.03	183.90844	6.386597
2.2392	30.9	28.797	85.03	183.91854	6.386726
2.2393	30.9	28.798	85.03	183.92864	6.386855
2.2394	30.91	28.799	85.03	183.93874	6.386984
2.2395	30.91	28.8	85.03	183.94884	6.387113
2.2396	30.91	28.801	85.03	183.95894	6.387241
2.2397	30.91	28.802	85.03	183.96904	6.38737
2.2398	30.92	28.803	85.04	183.97913	6.387499
2.2399	30.92	28.804	85.04	183.98923	6.387628
2.24	30.92	28.805	85.04	183.99932	6.387756
2.2402	30.92	28.806	85.04	184.00941	6.387885
2.2403	30.93	28.807	85.04	184.0195	6.388013
2.2404	30.93	28.808	85.04	184.02959	6.388142
2.2405	30.93	28.809	85.04	184.03968	6.38827
2.2406	30.93	28.81	85.04	184.04977	6.388399
2.2407	30.94	28.811	85.04	184.05986	6.388527
2.2408	30.94	28.812	85.04	184.06994	6.388655
2.2409	30.94	28.813	85.04	184.08003	6.388784
2.241	30.94	28.814	85.05	184.09011	6.388912
2.2411	30.95	28.815	85.05	184.10019	6.38904
2.2412	30.95	28.816	85.05	184.11028	6.389169
2.2414	30.95	28.817	85.05	184.12036	6.389297
2.2415	30.95	28.818	85.05	184.13044	6.389425
2.2416	30.96	28.819	85.05	184.14051	6.389552
2.2417	30.96	28.82	85.05	184.15059	6.38968
2.2418	30.96	28.821	85.05	184.16067	6.389808
2.2419	30.96	28.822	85.05	184.17074	6.389936
2.242	30.97	28.823	85.05	184.18082	6.390064
2.2421	30.97	28.824	85.06	184.19089	6.390192
2.2422	30.97	28.825	85.06	184.20096	6.39032
2.2423	30.97	28.826	85.06	184.21103	6.390447
2.2424	30.98	28.827	85.06	184.2211	6.390575
2.2426	30.98	28.828	85.06	184.23117	6.390702
2.2427	30.98	28.829	85.06	184.24123	6.39083
2.2428	30.98	28.83	85.06	184.2513	6.390957
2.2429	30.99	28.831	85.06	184.26137	6.391085
2.243	30.99	28.832	85.06	184.27143	6.391212
2.2431	30.99	28.833	85.06	184.28149	6.391339
2.2432	30.99	28.834	85.07	184.29155	6.391467
2.2433	31	28.835	85.07	184.30161	6.391594
2.2434	31	28.836	85.07	184.31167	6.391721
2.2435	31	28.837	85.07	184.32173	6.391848
2.2436	31	28.838	85.07	184.33179	6.391976
2.2437	31.01	28.839	85.07	184.34184	6.392102
2.2439	31.01	28.84	85.07	184.3519	6.39223
2.244	31.01	28.841	85.07	184.36195	6.392356
2.2441	31.01	28.842	85.07	184.37201	6.392484
2.2442	31.02	28.843	85.07	184.38206	6.39261
2.2443	31.02	28.844	85.08	184.39211	6.392737
2.2444	31.02	28.845	85.08	184.40216	6.392864
2.2445	31.02	28.846	85.08	184.41221	6.392991
2.2446	31.03	28.847	85.08	184.42225	6.393117
2.2447	31.03	28.848	85.08	184.4323	6.393244
2.2448	31.03	28.849	85.08	184.44235	6.393371
2.2449	31.03	28.85	85.08	184.45239	6.393497
2.245	31.04	28.851	85.08	184.46243	6.393623
2.2452	31.04	28.852	85.08	184.47247	6.39375
2.2453	31.04	28.853	85.08	184.48251	6.393876
2.2454	31.04	28.854	85.09	184.49255	6.394003
2.2455	31.05	28.855	85.09	184.50259	6.394129
2.2456	31.05	28.856	85.09	184.51263	6.394255
2.2457	31.05	28.857	85.09	184.52267	6.394382
2.2458	31.05	28.858	85.09	184.5327	6.394508
2.2459	31.06	28.859	85.09	184.54274	6.394634
2.246	31.06	28.86	85.09	184.55277	6.39476
2.2461	31.06	28.861	85.09	184.5628	6.394886
2.2462	31.06	28.862	85.09	184.57283	6.395012
2.2463	31.07	28.863	85.09	184.58286	6.395138
2.2465	31.07	28.864	85.1	184.59289	6.395264
2.2466	31.07	28.865	85.1	184.60292	6.39539
2.2467	31.07	28.866	85.1	184.61294	6.395515
2.2468	31.08	28.867	85.1	184.62297	6.395641
2.2469	31.08	28.868	85.1	184.63299	6.395767
2.247	31.08	28.869	85.1	184.64302	6.395892
2.2471	31.08	28.87	85.1	184.65304	6.396018
2.2472	31.09	28.871	85.1	184.66306	6.396144
2.2473	31.09	28.872	85.1	184.67308	6.396269
2.2474	31.09	28.873	85.1	184.6831	6.396395
2.2475	31.09	28.874	85.11	184.69311	6.39652
2.2476	31.1	28.875	85.11	184.70313	6.396645
2.2478	31.1	28.876	85.11	184.71315	6.396771
2.2479	31.1	28.877	85.11	184.72316	6.396896
2.248	31.1	28.878	85.11	184.73317	6.397021
2.2481	31.11	28.879	85.11	184.74318	6.397146
2.2482	31.11	28.88	85.11	184.7532	6.397271
2.2483	31.11	28.881	85.11	184.7632	6.397396
2.2484	31.11	28.882	85.11	184.77321	6.397521
2.2485	31.12	28.883	85.11	184.78322	6.397646
2.2486	31.12	28.884	85.12	184.79323	6.397771
2.2487	31.12	28.885	85.12	184.80323	6.397896
2.2488	31.12	28.886	85.12	184.81324	6.398021
2.2489	31.13	28.887	85.12	184.82324	6.398146
2.249	31.13	28.888	85.12	184.83324	6.398271
2.2492	31.13	28.889	85.12	184.84324	6.398395
2.2493	31.13	28.89	85.12	184.85324	6.39852
2.2494	31.14	28.891	85.12	184.86324	6.398645
2.2495	31.14	28.892	85.12	184.87324	6.398769
2.2496	31.14	28.893	85.12	184.88324	6.398894
2.2497	31.14	28.894	85.13	184.89323	6.399018
2.2498	31.15	28.895	85.13	184.90323	6.399143
2.2499	31.15	28.896	85.13	184.91322	6.399267
2.25	31.15	28.897	85.13	184.92321	6.399391
2.2501	31.15	28.898	85.13	184.9332	6.399516
2.2502	31.16	28.899	85.13	184.94319	6.39964
2.2503	31.16	28.9	85.13	184.95318	6.399764
2.2504	31.16	28.901	85.13	184.96317	6.399888
2.2506	31.16	28.902	85.13	184.97315	6.400012
2.2507	31.17	28.903	85.13	184.98314	6.400136
2.2508	31.17	28.904	85.14	184.99312	6.40026
2.2509	31.17	28.905	85.14	185.00311	6.400384
2.251	31.17	28.906	85.14	185.01309	6.400508
2.2511	31.18	28.907	85.14	185.02307	6.400632
2.2512	31.18	28.908	85.14	185.03305	6.400756
2.2513	31.18	28.909	85.14	185.04303	6.40088
2.2514	31.18	28.91	85.14	185.05301	6.401003
2.2515	31.19	28.911	85.14	185.06298	6.401127
2.2516	31.19	28.912	85.14	185.07296	6.401251
2.2517	31.19	28.913	85.14	185.08293	6.401374
2.2518	31.19	28.914	85.15	185.09291	6.401498
2.252	31.2	28.915	85.15	185.10288	6.401621
2.2521	31.2	28.916	85.15	185.11285	6.401745
2.2522	31.2	28.917	85.15	185.12282	6.401868
2.2523	31.2	28.918	85.15	185.13279	6.401991
2.2524	31.21	28.919	85.15	185.14276	6.402115
2.2525	31.21	28.92	85.15	185.15272	6.402238
2.2526	31.21	28.921	85.15	185.16269	6.402361
2.2527	31.21	28.922	85.15	185.17265	6.402484
2.2528	31.22	28.923	85.15	185.18262	6.402608
2.2529	31.22	28.924	85.16	185.19258	6.402731
2.253	31.22	28.925	85.16	185.20254	6.402854
2.2531	31.22	28.926	85.16	185.2125	6.402977
2.2532	31.23	28.927	85.16	185.22246	6.4031
2.2533	31.23	28.928	85.16	185.23242	6.403222
2.2535	31.23	28.929	85.16	185.24237	6.403345
2.2536	31.24	28.93	85.16	185.25233	6.403468
2.2537	31.24	28.931	85.16	185.26228	6.403591
2.2538	31.24	28.932	85.16	185.27224	6.403714
2.2539	31.24	28.933	85.16	185.28219	6.403836
2.254	31.25	28.934	85.17	185.29214	6.403959
2.2541	31.25	28.935	85.17	185.30209	6.404081
2.2542	31.25	28.936	85.17	185.31204	6.404204
2.2543	31.25	28.937	85.17	185.32199	6.404326
2.2544	31.26	28.938	85.17	185.33193	6.404448
2.2545	31.26	28.939	85.17	185.34188	6.404571
2.2546	31.26	28.94	85.17	185.35182	6.404693
2.2547	31.26	28.941	85.17	185.36177	6.404816
2.2548	31.27	28.942	85.17	185.37171	6.404938
2.255	31.27	28.943	85.17	185.38165	6.40506
2.2551	31.27	28.944	85.18	185.39159	6.405182
2.2552	31.27	28.945	85.18	185.40153	6.405304
2.2553	31.28	28.946	85.18	185.41147	6.405426
2.2554	31.28	28.947	85.18	185.4214	6.405548
2.2555	31.28	28.948	85.18	185.43134	6.40567
2.2556	31.28	28.949	85.18	185.44127	6.405792
2.2557	31.29	28.95	85.18	185.45121	6.405914
2.2558	31.29	28.951	85.18	185.46114	6.406036
2.2559	31.29	28.952	85.18	185.47107	6.406157
2.256	31.29	28.953	85.18	185.481	6.406279
2.2561	31.3	28.954	85.19	185.49093	6.406401
2.2562	31.3	28.955	85.19	185.50086	6.406523
2.2563	31.3	28.956	85.19	185.51078	6.406644
2.2565	31.3	28.957	85.19	185.52071	6.406766
2.2566	31.31	28.958	85.19	185.53063	6.406887
2.2567	31.31	28.959	85.19	185.54056	6.407009
2.2568	31.31	28.96	85.19	185.55048	6.40713
2.2569	31.31	28.961	85.19	185.5604	6.407251
2.257	31.32	28.962	85.19	185.57032	6.407372
2.2571	31.32	28.963	85.19	185.58024	6.407494
2.2572	31.32	28.964	85.2	185.59016	6.407615
2.2573	31.32	28.965	85.2	185.60007	6.407736
2.2574	31.33	28.966	85.2	185.60999	6.407857
2.2575	31.33	28.967	85.2	185.6199	6.407978
2.2576	31.33	28.968	85.2	185.62982	6.408099
2.2577	31.33	28.969	85.2	185.63973	6.40822
2.2578	31.34	28.97	85.2	185.64964	6.408341
2.2579	31.34	28.971	85.2	185.65955	6.408462
2.2581	31.34	28.972	85.2	185.66946	6.408583
2.2582	31.34	28.973	85.2	185.67937	6.408704
2.2583	31.35	28.974	85.21	185.68927	6.408824
2.2584	31.35	28.975	85.21	185.69918	6.408945
2.2585	31.35	28.976	85.21	185.70908	6.409065
2.2586	31.36	28.977	85.21	185.71899	6.409186
2.2587	31.36	28.978	85.21	185.72889	6.409307
2.2588	31.36	28.979	85.21	185.73879	6.409427
2.2589	31.36	28.98	85.21	185.74869	6.409548
2.259	31.37	28.981	85.21	185.75859	6.409668
2.2591	31.37	28.982	85.21	185.76849	6.409788
2.2592	31.37	28.983	85.21	185.77838	6.409909
2.2593	31.37	28.984	85.22	185.78828	6.410029
2.2594	31.38	28.985	85.22	185.79817	6.410149
2.2595	31.38	28.986	85.22	185.80807	6.410269
2.2597	31.38	28.987	85.22	185.81796	6.410389
2.2598	31.38	28.988	85.22	185.82785	6.41051
2.2599	31.39	28.989	85.22	185.83774	6.41063
2.26	31.39	28.99	85.22	185.84763	6.41075
2.2601	31.39	28.991	85.22	185.85752	6.41087
2.2602	31.39	28.992	85.22	185.8674	6.410989
2.2603	31.4	28.993	85.22	185.87729	6.411109
2.2604	31.4	28.994	85.23	185.88717	6.411229
2.2605	31.4	28.995	85.23	185.89706	6.411349
2.2606	31.4	28.996	85.23	185.90694	6.411468
2.2607	31.41	28.997	85.23	185.91682	6.411588
2.2608	31.41	28.998	85.23	185.9267	6.411708
2.2609	31.41	28.999	85.23	185.93658	6.411827
2.261	31.41	29	85.23	185.94646	6.411947
2.2611	31.42	29.001	85.23	185.95633	6.412066
2.2612	31.42	29.002	85.23	185.96621	6.412186
2.2614	31.42	29.003	85.24	185.97608	6.412305
2.2615	31.42	29.004	85.24	185.98596	6.412424
2.2616	31.43	29.005	85.24	185.99583	6.412544
2.2617	31.43	29.006	85.24	186.0057	6.412663
2.2618	31.43	29.007	85.24	186.01557	6.412782
2.2619	31.44	29.008	85.24	186.02544	6.412901
2.262	31.44	29.009	85.24	186.03531	6.41302
2.2621	31.44	29.01	85.24	186.04517	6.413139
2.2622	31.44	29.011	85.24	186.05504	6.413258
2.2623	31.45	29.012	85.24	186.0649	6.413377
2.2624	31.45	29.013	85.25	186.07477	6.413496
2.2625	31.45	29.014	85.25	186.08463	6.413615
2.2626	31.45	29.015	85.25	186.09449	6.413734
2.2627	31.46	29.016	85.25	186.10435	6.413853
2.2628	31.46	29.017	85.25	186.11421	6.413971
2.2629	31.46	29.018	85.25	186.12407	6.41409
2.263	31.46	29.019	85.25	186.13392	6.414209
2.2632	31.47	29.02	85.25	186.14378	6.414327
2.2633	31.47	29.021	85.25	186.15363	6.414446
2.2634	31.47	29.022	85.25	186.16349	6.414564
2.2635	31.47	29.023	85.26	186.17334	6.414683
2.2636	31.48	29.024	85.26	186.18319	6.414801
2.2637	31.48	29.025	85.26	186.19304	6.41492
2.2638	31.48	29.026	85.26	186.20289	6.415038
2.2639	31.48	29.027	85.26	186.21274	6.415156
2.264	31.49	29.028	85.26	186.22258	6.415274
2.2641	31.49	29.029	85.26	186.23243	6.415393
2.2642	31.49	29.03	85.26	186.24227	6.415511
2.2643	31.49	29.031	85.26	186.25212	6.415629
2.2644	31.5	29.032	85.26	186.26196	6.415747
2.2645	31.5	29.033	85.27	186.2718	6.415865
2.2646	31.5	29.034	85.27	186.28164	6.415983
2.2647	31.51	29.035	85.27	186.29148	6.416101
2.2648	31.51	29.036	85.27	186.30132	6.416218
2.265	31.51	29.037	85.27	186.31115	6.416336
2.2651	31.51	29.038	85.27	186.32099	6.416454
2.2652	31.52	29.039	85.27	186.33082	6.416572
2.2653	31.52	29.04	85.27	186.34066	6.416689
2.2654	31.52	29.041	85.27	186.35049	6.416807
2.2655	31.52	29.042	85.27	186.36032	6.416924
2.2656	31.53	29.043	85.28	186.37015	6.417042
2.2657	31.53	29.044	85.28	186.37998	6.417159
2.2658	31.53	29.045	85.28	186.38981	6.417277
2.2659	31.53	29.046	85.28	186.39963	6.417394
2.266	31.54	29.047	85.28	186.40946	6.417512
2.2661	31.54	29.048	85.28	186.41928	6.417629
2.2662	31.54	29.049	85.28	186.42911	6.417746
2.2663	31.54	29.05	85.28	186.43893	6.417863

2.2664	31.55	29.051	85.28	186.44875	6.41798
2.2665	31.55	29.052	85.28	186.45857	6.418098
2.2666	31.55	29.053	85.29	186.46839	6.418215
2.2668	31.55	29.054	85.29	186.4782	6.418331
2.2669	31.56	29.055	85.29	186.48802	6.418448
2.267	31.56	29.056	85.29	186.49784	6.418566
2.2671	31.56	29.057	85.29	186.50765	6.418682
2.2672	31.57	29.058	85.29	186.51746	6.418799
2.2673	31.57	29.059	85.29	186.52728	6.418916
2.2674	31.57	29.06	85.29	186.53709	6.419033
2.2675	31.57	29.061	85.29	186.5469	6.419149
2.2676	31.58	29.062	85.3	186.55671	6.419266
2.2677	31.58	29.063	85.3	186.56651	6.419382
2.2678	31.58	29.064	85.3	186.57632	6.419499
2.2679	31.58	29.065	85.3	186.58613	6.419616
2.268	31.59	29.066	85.3	186.59593	6.419732
2.2681	31.59	29.067	85.3	186.60573	6.419848
2.2682	31.59	29.068	85.3	186.61553	6.419965
2.2683	31.59	29.069	85.3	186.62534	6.420081
2.2684	31.6	29.07	85.3	186.63514	6.420197
2.2685	31.6	29.071	85.3	186.64493	6.420313
2.2686	31.6	29.072	85.31	186.65473	6.42043
2.2688	31.6	29.073	85.31	186.66453	6.420546
2.2689	31.61	29.074	85.31	186.67432	6.420662
2.269	31.61	29.075	85.31	186.68412	6.420778
2.2691	31.61	29.076	85.31	186.69391	6.420894
2.2692	31.62	29.077	85.31	186.7037	6.42101
2.2693	31.62	29.078	85.31	186.71349	6.421126
2.2694	31.62	29.079	85.31	186.72328	6.421241
2.2695	31.62	29.08	85.31	186.73307	6.421357
2.2696	31.63	29.081	85.31	186.74286	6.421473
2.2697	31.63	29.082	85.32	186.75265	6.421589
2.2698	31.63	29.083	85.32	186.76243	6.421704
2.2699	31.63	29.084	85.32	186.77221	6.42182
2.27	31.64	29.085	85.32	186.782	6.421936
2.2701	31.64	29.086	85.32	186.79178	6.422051
2.2702	31.64	29.087	85.32	186.80156	6.422167
2.2703	31.64	29.088	85.32	186.81134	6.422282
2.2704	31.65	29.089	85.32	186.82112	6.422397
2.2705	31.65	29.09	85.32	186.8309	6.422513
2.2706	31.65	29.091	85.32	186.84067	6.422628
2.2708	31.65	29.092	85.33	186.85045	6.422743
2.2709	31.66	29.093	85.33	186.86022	6.422858
2.271	31.66	29.094	85.33	186.86999	6.422973
2.2711	31.66	29.095	85.33	186.87977	6.423089
2.2712	31.67	29.096	85.33	186.88954	6.423204
2.2713	31.67	29.097	85.33	186.89931	6.423319
2.2714	31.67	29.098	85.33	186.90908	6.423434
2.2715	31.67	29.099	85.33	186.91884	6.423549
2.2716	31.68	29.1	85.33	186.92861	6.423664
2.2717	31.68	29.101	85.33	186.93837	6.423778
2.2718	31.68	29.102	85.34	186.94814	6.423893
2.2719	31.68	29.103	85.34	186.9579	6.424008
2.272	31.69	29.104	85.34	186.96766	6.424122
2.2721	31.69	29.105	85.34	186.97742	6.424237
2.2722	31.69	29.106	85.34	186.98718	6.424352
2.2723	31.69	29.107	85.34	186.99694	6.424466
2.2724	31.7	29.108	85.34	187.0067	6.424581
2.2725	31.7	29.109	85.34	187.01646	6.424695
2.2726	31.7	29.11	85.34	187.02621	6.42481
2.2727	31.71	29.111	85.35	187.03596	6.424924
2.2728	31.71	29.112	85.35	187.04572	6.425038
2.273	31.71	29.113	85.35	187.05547	6.425153
2.2731	31.71	29.114	85.35	187.06522	6.425267
2.2732	31.72	29.115	85.35	187.07497	6.425381
2.2733	31.72	29.116	85.35	187.08472	6.425495
2.2734	31.72	29.117	85.35	187.09446	6.425609
2.2735	31.72	29.118	85.35	187.10421	6.425723
2.2736	31.73	29.119	85.35	187.11396	6.425837
2.2737	31.73	29.12	85.35	187.1237	6.425951
2.2738	31.73	29.121	85.36	187.13344	6.426065
2.2739	31.73	29.122	85.36	187.14318	6.426179
2.274	31.74	29.123	85.36	187.15292	6.426293
2.2741	31.74	29.124	85.36	187.16266	6.426406
2.2742	31.74	29.125	85.36	187.1724	6.42652
2.2743	31.75	29.126	85.36	187.18214	6.426634
2.2744	31.75	29.127	85.36	187.19188	6.426748
2.2745	31.75	29.128	85.36	187.20161	6.426861
2.2746	31.75	29.129	85.36	187.21134	6.426974
2.2747	31.76	29.13	85.36	187.22108	6.427088
2.2748	31.76	29.131	85.37	187.23081	6.427202
2.2749	31.76	29.132	85.37	187.24054	6.427315
2.275	31.76	29.133	85.37	187.25027	6.427428
2.2751	31.77	29.134	85.37	187.26	6.427542
2.2753	31.77	29.135	85.37	187.26972	6.427655
2.2754	31.77	29.136	85.37	187.27945	6.427768
2.2755	31.77	29.137	85.37	187.28917	6.427881
2.2756	31.78	29.138	85.37	187.2989	6.427994
2.2757	31.78	29.139	85.37	187.30862	6.428107
2.2758	31.78	29.14	85.37	187.31834	6.42822
2.2759	31.79	29.141	85.38	187.32806	6.428333
2.276	31.79	29.142	85.38	187.33778	6.428446
2.2761	31.79	29.143	85.38	187.3475	6.428559
2.2762	31.79	29.144	85.38	187.35722	6.428672
2.2763	31.8	29.145	85.38	187.36693	6.428785
2.2764	31.8	29.146	85.38	187.37665	6.428898
2.2765	31.8	29.147	85.38	187.38636	6.42901
2.2766	31.8	29.148	85.38	187.39607	6.429123
2.2767	31.81	29.149	85.38	187.40579	6.429236
2.2768	31.81	29.15	85.39	187.4155	6.429348
2.2769	31.81	29.151	85.39	187.42521	6.429461
2.277	31.81	29.152	85.39	187.43491	6.429573
2.2771	31.82	29.153	85.39	187.44462	6.429685
2.2772	31.82	29.154	85.39	187.45433	6.429798
2.2773	31.82	29.155	85.39	187.46403	6.42991
2.2774	31.83	29.156	85.39	187.47373	6.430022
2.2775	31.83	29.157	85.39	187.48344	6.430135
2.2776	31.83	29.158	85.39	187.49314	6.430247
2.2778	31.83	29.159	85.39	187.50284	6.430359
2.2779	31.84	29.16	85.4	187.51254	6.430471
2.278	31.84	29.161	85.4	187.52224	6.430583
2.2781	31.84	29.162	85.4	187.53193	6.430695
2.2782	31.84	29.163	85.4	187.54163	6.430807
2.2783	31.85	29.164	85.4	187.55132	6.430919
2.2784	31.85	29.165	85.4	187.56102	6.431031
2.2785	31.85	29.166	85.4	187.57071	6.431143
2.2786	31.85	29.167	85.4	187.5804	6.431254
2.2787	31.86	29.168	85.4	187.59009	6.431366
2.2788	31.86	29.169	85.4	187.59978	6.431478
2.2789	31.86	29.17	85.41	187.60947	6.43159
2.279	31.87	29.171	85.41	187.61915	6.431701
2.2791	31.87	29.172	85.41	187.62884	6.431813
2.2792	31.87	29.173	85.41	187.63852	6.431924
2.2793	31.87	29.174	85.41	187.64821	6.432036
2.2794	31.88	29.175	85.41	187.65789	6.432147
2.2795	31.88	29.176	85.41	187.66757	6.432258
2.2796	31.88	29.177	85.41	187.67725	6.43237
2.2797	31.88	29.178	85.41	187.68693	6.432481
2.2798	31.89	29.179	85.41	187.69661	6.432592
2.2799	31.89	29.18	85.42	187.70628	6.432703
2.28	31.89	29.181	85.42	187.71596	6.432815
2.2801	31.9	29.182	85.42	187.72563	6.432925
2.2802	31.9	29.183	85.42	187.73531	6.433037
2.2803	31.9	29.184	85.42	187.74498	6.433148
2.2805	31.9	29.185	85.42	187.75465	6.433259
2.2806	31.91	29.186	85.42	187.76432	6.433369
2.2807	31.91	29.187	85.42	187.77399	6.43348
2.2808	31.91	29.188	85.42	187.78366	6.433591
2.2809	31.91	29.189	85.43	187.79332	6.433702
2.281	31.92	29.19	85.43	187.80299	6.433813
2.2811	31.92	29.191	85.43	187.81265	6.433923
2.2812	31.92	29.192	85.43	187.82232	6.434034
2.2813	31.92	29.193	85.43	187.83198	6.434144
2.2814	31.93	29.194	85.43	187.84164	6.434255
2.2815	31.93	29.195	85.43	187.8513	6.434365
2.2816	31.93	29.196	85.43	187.86096	6.434476
2.2817	31.94	29.197	85.43	187.87062	6.434586
2.2818	31.94	29.198	85.43	187.88027	6.434697
2.2819	31.94	29.199	85.44	187.88993	6.434807
2.282	31.94	29.2	85.44	187.89958	6.434917
2.2821	31.95	29.201	85.44	187.90924	6.435028
2.2822	31.95	29.202	85.44	187.91889	6.435138
2.2823	31.95	29.203	85.44	187.92854	6.435248
2.2824	31.95	29.204	85.44	187.93819	6.435358
2.2825	31.96	29.205	85.44	187.94784	6.435468
2.2826	31.96	29.206	85.44	187.95748	6.435578
2.2827	31.96	29.207	85.44	187.96713	6.435688
2.2828	31.97	29.208	85.44	187.97678	6.435798
2.2829	31.97	29.209	85.45	187.98642	6.435907
2.283	31.97	29.21	85.45	187.99606	6.436017
2.2831	31.97	29.211	85.45	188.00571	6.436127
2.2832	31.98	29.212	85.45	188.01535	6.436237
2.2833	31.98	29.213	85.45	188.02499	6.436346
2.2835	31.98	29.214	85.45	188.03462	6.436456
2.2836	31.98	29.215	85.45	188.04426	6.436565
2.2837	31.99	29.216	85.45	188.0539	6.436675
2.2838	31.99	29.217	85.45	188.06353	6.436784
2.2839	31.99	29.218	85.46	188.07317	6.436894
2.284	32	29.219	85.46	188.0828	6.437003
2.2841	32	29.22	85.46	188.09243	6.437113
2.2842	32	29.221	85.46	188.10206	6.437222
2.2843	32	29.222	85.46	188.11169	6.437331
2.2844	32.01	29.223	85.46	188.12132	6.43744
2.2845	32.01	29.224	85.46	188.13095	6.43755
2.2846	32.01	29.225	85.46	188.14057	6.437659
2.2847	32.01	29.226	85.46	188.1502	6.437768
2.2848	32.02	29.227	85.46	188.15982	6.437877
2.2849	32.02	29.228	85.47	188.16945	6.437986
2.285	32.02	29.229	85.47	188.17907	6.438095
2.2851	32.03	29.23	85.47	188.18869	6.438204
2.2852	32.03	29.231	85.47	188.19831	6.438312
2.2853	32.03	29.232	85.47	188.20793	6.438421
2.2854	32.03	29.233	85.47	188.21754	6.43853
2.2855	32.04	29.234	85.47	188.22716	6.438639
2.2856	32.04	29.235	85.47	188.23677	6.438747
2.2857	32.04	29.236	85.47	188.24639	6.438856
2.2858	32.04	29.237	85.47	188.256	6.438964
2.2859	32.05	29.238	85.48	188.26561	6.439073
2.286	32.05	29.239	85.48	188.27522	6.439181
2.2861	32.05	29.24	85.48	188.28483	6.43929
2.2862	32.06	29.241	85.48	188.29444	6.439398
2.2863	32.06	29.242	85.48	188.30405	6.439507
2.2864	32.06	29.243	85.48	188.31365	6.439615
2.2865	32.06	29.244	85.48	188.32326	6.439723
2.2866	32.07	29.245	85.48	188.33286	6.439831
2.2867	32.07	29.246	85.48	188.34246	6.439939
2.2869	32.07	29.247	85.49	188.35207	6.440048
2.287	32.07	29.248	85.49	188.36167	6.440156
2.2871	32.08	29.249	85.49	188.37127	6.440264
2.2872	32.08	29.25	85.49	188.38086	6.440371
2.2873	32.08	29.251	85.49	188.39046	6.440479
2.2874	32.09	29.252	85.49	188.40006	6.440587
2.2875	32.09	29.253	85.49	188.40965	6.440695
2.2876	32.09	29.254	85.49	188.41925	6.440803
2.2877	32.09	29.255	85.49	188.42884	6.440911
2.2878	32.1	29.256	85.49	188.43843	6.441018
2.2879	32.1	29.257	85.5	188.44802	6.441126
2.288	32.1	29.258	85.5	188.45761	6.441234
2.2881	32.1	29.259	85.5	188.4672	6.441341
2.2882	32.11	29.26	85.5	188.47678	6.441448
2.2883	32.11	29.261	85.5	188.48637	6.441556
2.2884	32.11	29.262	85.5	188.49595	6.441663
2.2885	32.12	29.263	85.5	188.50554	6.441771
2.2886	32.12	29.264	85.5	188.51512	6.441878
2.2887	32.12	29.265	85.5	188.5247	6.441985
2.2888	32.12	29.266	85.51	188.53428	6.442093
2.2889	32.13	29.267	85.51	188.54386	6.4422
2.289	32.13	29.268	85.51	188.55344	6.442307
2.2891	32.13	29.269	85.51	188.56301	6.442414
2.2892	32.13	29.27	85.51	188.57259	6.442521
2.2893	32.14	29.271	85.51	188.58216	6.442628
2.2894	32.14	29.272	85.51	188.59174	6.442735
2.2895	32.14	29.273	85.51	188.60131	6.442842
2.2896	32.15	29.274	85.51	188.61088	6.442949
2.2897	32.15	29.275	85.51	188.62045	6.443056
2.2898	32.15	29.276	85.52	188.63002	6.443162
2.2899	32.15	29.277	85.52	188.63959	6.443269
2.29	32.16	29.278	85.52	188.64915	6.443376
2.2901	32.16	29.279	85.52	188.65872	6.443482
2.2902	32.16	29.28	85.52	188.66828	6.443589
2.2903	32.17	29.281	85.52	188.67785	6.443696
2.2904	32.17	29.282	85.52	188.68741	6.443802
2.2905	32.17	29.283	85.52	188.69697	6.443908
2.2906	32.17	29.284	85.52	188.70653	6.444015
2.2907	32.18	29.285	85.52	188.71609	6.444121
2.2909	32.18	29.286	85.53	188.72565	6.444228
2.291	32.18	29.287	85.53	188.7352	6.444334
2.2911	32.18	29.288	85.53	188.74476	6.44444
2.2912	32.19	29.289	85.53	188.75431	6.444546
2.2913	32.19	29.29	85.53	188.76387	6.444652
2.2914	32.19	29.291	85.53	188.77342	6.444758
2.2915	32.2	29.292	85.53	188.78297	6.444864
2.2916	32.2	29.293	85.53	188.79252	6.44497
2.2917	32.2	29.294	85.53	188.80207	6.445076
2.2918	32.2	29.295	85.54	188.81161	6.445182
2.2919	32.21	29.296	85.54	188.82116	6.445288
2.292	32.21	29.297	85.54	188.83071	6.445394
2.2921	32.21	29.298	85.54	188.84025	6.4455
2.2922	32.21	29.299	85.54	188.84979	6.445605
2.2923	32.22	29.3	85.54	188.85933	6.445711
2.2924	32.22	29.301	85.54	188.86888	6.445817
2.2925	32.22	29.302	85.54	188.87842	6.445922
2.2926	32.23	29.303	85.54	188.88795	6.446028
2.2927	32.23	29.304	85.54	188.89749	6.446133
2.2928	32.23	29.305	85.55	188.90703	6.446239
2.2929	32.23	29.306	85.55	188.91656	6.446344
2.293	32.24	29.307	85.55	188.9261	6.44645
2.2931	32.24	29.308	85.55	188.93563	6.446555
2.2932	32.24	29.309	85.55	188.94516	6.44666
2.2933	32.25	29.31	85.55	188.95469	6.446765
2.2934	32.25	29.311	85.55	188.96422	6.44687
2.2935	32.25	29.312	85.55	188.97375	6.446976
2.2936	32.25	29.313	85.55	188.98328	6.447081
2.2937	32.26	29.314	85.56	188.9928	6.447186
2.2938	32.26	29.315	85.56	189.00233	6.447291
2.2939	32.26	29.316	85.56	189.01185	6.447396
2.294	32.26	29.317	85.56	189.02137	6.4475
2.2941	32.27	29.318	85.56	189.0309	6.447606
2.2942	32.27	29.319	85.56	189.04042	6.44771
2.2943	32.27	29.32	85.56	189.04994	6.447815
2.2944	32.28	29.321	85.56	189.05945	6.44792
2.2945	32.28	29.322	85.56	189.06897	6.448024
2.2946	32.28	29.323	85.56	189.07849	6.448129
2.2947	32.28	29.324	85.57	189.088	6.448234
2.2948	32.29	29.325	85.57	189.09752	6.448338
2.2949	32.29	29.326	85.57	189.10703	6.448443
2.295	32.29	29.327	85.57	189.11654	6.448547
2.2951	32.3	29.328	85.57	189.12605	6.448651
2.2952	32.3	29.329	85.57	189.13556	6.448756
2.2953	32.3	29.33	85.57	189.14507	6.44886
2.2954	32.3	29.331	85.57	189.15457	6.448964
2.2955	32.31	29.332	85.57	189.16408	6.449069
2.2956	32.31	29.333	85.58	189.17358	6.449173
2.2957	32.31	29.334	85.58	189.18309	6.449277
2.2958	32.31	29.335	85.58	189.19259	6.449381
2.2959	32.32	29.336	85.58	189.20209	6.449485
2.296	32.32	29.337	85.58	189.21159	6.449589
2.2961	32.32	29.338	85.58	189.22109	6.449693
2.2962	32.33	29.339	85.58	189.23059	6.449797
2.2964	32.33	29.34	85.58	189.24009	6.449901
2.2965	32.33	29.341	85.58	189.24958	6.450004
2.2966	32.33	29.342	85.58	189.25908	6.450108
2.2967	32.34	29.343	85.59	189.26857	6.450212
2.2968	32.34	29.344	85.59	189.27806	6.450316
2.2969	32.34	29.345	85.59	189.28755	6.450419
2.297	32.35	29.346	85.59	189.29704	6.450523
2.2971	32.35	29.347	85.59	189.30653	6.450626
2.2972	32.35	29.348	85.59	189.31602	6.45073
2.2973	32.35	29.349	85.59	189.32551	6.450833
2.2974	32.36	29.35	85.59	189.33499	6.450937
2.2975	32.36	29.351	85.59	189.34448	6.45104
2.2976	32.36	29.352	85.59	189.35396	6.451143
2.2977	32.37	29.353	85.6	189.36344	6.451247
2.2978	32.37	29.354	85.6	189.37292	6.45135
2.2979	32.37	29.355	85.6	189.3824	6.451453
2.298	32.37	29.356	85.6	189.39188	6.451556
2.2981	32.38	29.357	85.6	189.40136	6.451659
2.2982	32.38	29.358	85.6	189.41084	6.451762
2.2983	32.38	29.359	85.6	189.42031	6.451865
2.2984	32.38	29.36	85.6	189.42978	6.451968
2.2985	32.39	29.361	85.6	189.43926	6.452071
2.2986	32.39	29.362	85.61	189.44873	6.452174
2.2987	32.39	29.363	85.61	189.4582	6.452277
2.2988	32.4	29.364	85.61	189.46767	6.452379
2.2989	32.4	29.365	85.61	189.47714	6.452482
2.299	32.4	29.366	85.61	189.48661	6.452585
2.2991	32.4	29.367	85.61	189.49607	6.452687
2.2992	32.41	29.368	85.61	189.50554	6.45279
2.2993	32.41	29.369	85.61	189.515	6.452893
2.2994	32.41	29.37	85.61	189.52447	6.452995
2.2995	32.42	29.371	85.61	189.53393	6.453098
2.2996	32.42	29.372	85.62	189.54339	6.4532
2.2997	32.42	29.373	85.62	189.55285	6.453302
2.2998	32.42	29.374	85.62	189.56231	6.453405
2.2999	32.43	29.375	85.62	189.57176	6.453507
2.3	32.43	29.376	85.62	189.58122	6.453609
2.3001	32.43	29.377	85.62	189.59068	6.453711
2.3002	32.44	29.378	85.62	189.60013	6.453813
2.3003	32.44	29.379	85.62	189.60958	6.453915
2.3004	32.44	29.38	85.62	189.61903	6.454017
2.3005	32.44	29.381	85.63	189.62848	6.454119
2.3006	32.45	29.382	85.63	189.63793	6.454221
2.3007	32.45	29.383	85.63	189.64738	6.454323
2.3008	32.45	29.384	85.63	189.65683	6.454425
2.3009	32.46	29.385	85.63	189.66628	6.454527
2.301	32.46	29.386	85.63	189.67572	6.454629
2.3011	32.46	29.387	85.63	189.68516	6.45473
2.3012	32.46	29.388	85.63	189.69461	6.454832
2.3013	32.47	29.389	85.63	189.70405	6.454934
2.3014	32.47	29.39	85.63	189.71349	6.455035
2.3015	32.47	29.391	85.64	189.72293	6.455137
2.3016	32.47	29.392	85.64	189.73237	6.455239
2.3017	32.48	29.393	85.64	189.7418	6.45534
2.3018	32.48	29.394	85.64	189.75124	6.455441
2.3019	32.48	29.395	85.64	189.76067	6.455542
2.302	32.49	29.396	85.64	189.77011	6.455644
2.3021	32.49	29.397	85.64	189.77954	6.455745
2.3022	32.49	29.398	85.64	189.78897	6.455846
2.3023	32.49	29.399	85.64	189.7984	6.455947
2.3024	32.5	29.4	85.65	189.80783	6.456049
2.3025	32.5	29.401	85.65	189.81726	6.45615
2.3026	32.5	29.402	85.65	189.82669	6.456251
2.3027	32.51	29.403	85.65	189.83611	6.456352
2.3028	32.51	29.404	85.65	189.84554	6.456453
2.3029	32.51	29.405	85.65	189.85496	6.456554
2.303	32.51	29.406	85.65	189.86438	6.456654
2.3031	32.52	29.407	85.65	189.8738	6.456755
2.3032	32.52	29.408	85.65	189.88322	6.456856
2.3033	32.52	29.409	85.65	189.89264	6.456957
2.3034	32.53	29.41	85.66	189.90206	6.457057
2.3035	32.53	29.411	85.66	189.91148	6.457158
2.3036	32.53	29.412	85.66	189.92089	6.457259
2.3037	32.53	29.413	85.66	189.93031	6.457359
2.3038	32.54	29.414	85.66	189.93972	6.45746
2.3039	32.54	29.415	85.66	189.94913	6.45756
2.304	32.54	29.416	85.66	189.95854	6.45766
2.3041	32.55	29.417	85.66	189.96795	6.457761
2.3042	32.55	29.418	85.66	189.97736	6.457861
2.3043	32.55	29.419	85.67	189.98677	6.457962
2.3044	32.55	29.42	85.67	189.99618	6.458062
2.3045	32.56	29.421	85.67	190.00558	6.458162
2.3046	32.56	29.422	85.67	190.01499	6.458262
2.3047	32.56	29.423	85.67	190.02439	6.458362
2.3048	32.57	29.424	85.67	190.03379	6.458462
2.3049	32.57	29.425	85.67	190.04319	6.458562
2.305	32.57	29.426	85.67	190.05259	6.458662
2.3051	32.57	29.427	85.67	190.06199	6.458762
2.3052	32.58	29.428	85.68	190.07139	6.458862
2.3053	32.58	29.429	85.68	190.08079	6.458962
2.3054	32.58	29.43	85.68	190.09018	6.459062
2.3055	32.59	29.431	85.68	190.09958	6.459161
2.3056	32.59	29.432	85.68	190.10897	6.459261
2.3057	32.59	29.433	85.68	190.11836	6.459361
2.3058	32.59	29.434	85.68	190.12775	6.45946
2.3059	32.6	29.435	85.68	190.13714	6.45956
2.306	32.6	29.436	85.68	190.14653	6.459659
2.3061	32.6	29.437	85.68	190.15592	6.459759
2.3062	32.61	29.438	85.69	190.1653	6.459858
2.3063	32.61	29.439	85.69	190.17469	6.459958
2.3064	32.61	29.44	85.69	190.18407	6.460057
2.3065	32.61	29.441	85.69	190.19346	6.460156
2.3066	32.62	29.442	85.69	190.20284	6.460255
2.3067	32.62	29.443	85.69	190.21222	6.460355
2.3068	32.62	29.444	85.69	190.2216	6.460454
2.3069	32.63	29.445	85.69	190.23098	6.460553
2.307	32.63	29.446	85.69	190.24035	6.460652
2.3071	32.63	29.447	85.7	190.24973	6.460751
2.3072	32.63	29.448	85.7	190.2591	6.46085
2.3073	32.64	29.449	85.7	190.26848	6.460949
2.3074	32.64	29.45	85.7	190.27785	6.461048
2.3075	32.64	29.451	85.7	190.28722	6.461146
2.3076	32.65	29.452	85.7	190.29659	6.461245
2.3077	32.65	29.453	85.7	190.30596	6.461344
2.3078	32.65	29.454	85.7	190.31533	6.461443
2.3079	32.65	29.455	85.7	190.3247	6.461541
2.308	32.66	29.456	85.7	190.33406	6.46164
2.3081	32.66	29.457	85.71	190.34343	6.461738
2.3082	32.66	29.458	85.71	190.35279	6.461837
2.3083	32.67	29.459	85.71	190.36215	6.461935
2.3084	32.67	29.46	85.71	190.37152	6.462034
2.3085	32.67	29.461	85.71	190.38088	6.462132
2.3086	32.67	29.462	85.71	190.39024	6.462231
2.3087	32.68	29.463	85.71	190.39959	6.462329
2.3088	32.68	29.464	85.71	190.40895	6.462427
2.3089	32.68	29.465	85.71	190.41831	6.462525
2.309	32.69	29.466	85.72	190.42766	6.462623
2.3091	32.69	29.467	85.72	190.43701	6.462721
2.3092	32.69	29.468	85.72	190.44637	6.46282
2.3093	32.69	29.469	85.72	190.45572	6.462918
2.3094	32.7	29.47	85.72	190.46507	6.463016
2.3095	32.7	29.471	85.72	190.47442	6.463114
2.3096	32.7	29.472	85.72	190.48376	6.463211
2.3097	32.71	29.473	85.72	190.49311	6.463309
2.3098	32.71	29.474	85.72	190.50246	6.463407
2.3099	32.71	29.475	85.72	190.5118	6.463505
2.31	32.71	29.476	85.73	190.52115	6.463603
2.3101	32.72	29.477	85.73	190.53049	6.4637
2.3102	32.72	29.478	85.73	190.53983	6.463798
2.3103	32.72	29.479	85.73	190.54917	6.463895
2.3104	32.73	29.48	85.73	190.55851	6.463993
2.3105	32.73	29.481	85.73	190.56785	6.46409
2.3106	32.73	29.482	85.73	190.57718	6.464188
2.3107	32.73	29.483	85.73	190.58652	6.464285
2.3108	32.74	29.484	85.73	190.59585	6.464382
2.3109	32.74	29.485	85.74	190.60518	6.46448
2.311	32.74	29.486	85.74	190.61452	6.464577
2.3111	32.75	29.487	85.74	190.62385	6.464674
2.3112	32.75	29.488	85.74	190.63318	6.464771
2.3113	32.75	29.489	85.74	190.64251	6.464869
2.3114	32.75	29.49	85.74	190.65183	6.464965
2.3115	32.76	29.491	85.74	190.66116	6.465063
2.3116	32.76	29.492	85.74	190.67049	6.46516
2.3117	32.76	29.493	85.74	190.67981	6.465257
2.3118	32.77	29.494	85.75	190.68913	6.465353
2.3119	32.77	29.495	85.75	190.69845	6.46545
2.312	32.77	29.496	85.75	190.70778	6.465547
2.3121	32.78	29.497	85.75	190.7171	6.465644
2.3122	32.78	29.498	85.75	190.72641	6.46574
2.3123	32.78	29.499	85.75	190.73573	6.465837
2.3124	32.78	29.5	85.75	190.74505	6.465934
2.3125	32.79	29.501	85.75	190.75436	6.46603
2.3126	32.79	29.502	85.75	190.76368	6.466127
2.3127	32.79	29.503	85.75	190.77299	6.466223
2.3128	32.8	29.504	85.76	190.7823	6.46632
2.3129	32.8	29.505	85.76	190.79161	6.466416
2.313	32.8	29.506	85.76	190.80092	6.466513
2.3131	32.8	29.507	85.76	190.81023	6.466609
2.3132	32.81	29.508	85.76	190.81954	6.466705
2.3133	32.81	29.509	85.76	190.82884	6.466801
2.3134	32.81	29.51	85.76	190.83815	6.466898
2.3135	32.82	29.511	85.76	190.84745	6.466994
2.3136	32.82	29.512	85.76	190.85675	6.46709
2.3137	32.82	29.513	85.77	190.86606	6.467186
2.3138	32.82	29.514	85.77	190.87536	6.467282
2.3139	32.83	29.515	85.77	190.88466	6.467378
2.314	32.83	29.516	85.77	190.89395	6.467474
2.3141	32.83	29.517	85.77	190.90325	6.46757
2.3142	32.84	29.518	85.77	190.91255	6.467665
2.3143	32.84	29.519	85.77	190.92184	6.467761
2.3144	32.84	29.52	85.77	190.93114	6.467857
2.3145	32.84	29.521	85.77	190.94043	6.467953
2.3146	32.85	29.522	85.77	190.94972	6.468048
2.3147	32.85	29.523	85.78	190.95901	6.468144
2.3148	32.85	29.524	85.78	190.9683	6.468239

2.3149	32.86	29.525	85.78	190.97759	6.468335
2.315	32.86	29.526	85.78	190.98687	6.46843
2.3151	32.86	29.527	85.78	190.99616	6.468526
2.3152	32.86	29.528	85.78	191.00544	6.468621
2.3153	32.87	29.529	85.78	191.01473	6.468717
2.3154	32.87	29.53	85.78	191.02401	6.468812
2.3155	32.87	29.531	85.78	191.03329	6.468907
2.3156	32.88	29.532	85.79	191.04257	6.469002
2.3157	32.88	29.533	85.79	191.05185	6.469097
2.3158	32.88	29.534	85.79	191.06113	6.469192
2.3159	32.89	29.535	85.79	191.07041	6.469288
2.316	32.89	29.536	85.79	191.07968	6.469382
2.3161	32.89	29.537	85.79	191.08896	6.469478
2.3162	32.89	29.538	85.79	191.09823	6.469572
2.3163	32.9	29.539	85.79	191.1075	6.469667
2.3164	32.9	29.54	85.79	191.11677	6.469762
2.3165	32.9	29.541	85.8	191.12604	6.469857
2.3166	32.91	29.542	85.8	191.13531	6.469952
2.3167	32.91	29.543	85.8	191.14458	6.470046
2.3168	32.91	29.544	85.8	191.15384	6.470141
2.3169	32.91	29.545	85.8	191.16311	6.470236
2.317	32.92	29.546	85.8	191.17237	6.47033
2.3171	32.92	29.547	85.8	191.18164	6.470425
2.3172	32.92	29.548	85.8	191.1909	6.470519
2.3173	32.93	29.549	85.8	191.20016	6.470614
2.3174	32.93	29.55	85.8	191.20942	6.470708
2.3175	32.93	29.551	85.81	191.21868	6.470802
2.3176	32.93	29.552	85.81	191.22794	6.470897
2.3177	32.94	29.553	85.81	191.23719	6.470991
2.3177	32.94	29.554	85.81	191.24645	6.471085
2.3178	32.94	29.555	85.81	191.2557	6.471179
2.3179	32.95	29.556	85.81	191.26496	6.471274
2.318	32.95	29.557	85.81	191.27421	6.471368
2.3181	32.95	29.558	85.81	191.28346	6.471462
2.3182	32.96	29.559	85.81	191.29271	6.471556
2.3183	32.96	29.56	85.82	191.30196	6.47165
2.3184	32.96	29.561	85.82	191.3112	6.471743
2.3185	32.96	29.562	85.82	191.32045	6.471837
2.3186	32.97	29.563	85.82	191.32969	6.471931
2.3187	32.97	29.564	85.82	191.33894	6.472025
2.3188	32.97	29.565	85.82	191.34818	6.472118
2.3189	32.98	29.566	85.82	191.35742	6.472212
2.319	32.98	29.567	85.82	191.36666	6.472306
2.3191	32.98	29.568	85.82	191.3759	6.472399
2.3192	32.98	29.569	85.83	191.38514	6.472493
2.3193	32.99	29.57	85.83	191.39438	6.472586
2.3194	32.99	29.571	85.83	191.40361	6.47268
2.3195	32.99	29.572	85.83	191.41285	6.472773
2.3196	33	29.573	85.83	191.42208	6.472866
2.3197	33	29.574	85.83	191.43132	6.47296
2.3198	33	29.575	85.83	191.44055	6.473053
2.3199	33.01	29.576	85.83	191.44978	6.473146
2.32	33.01	29.577	85.83	191.45901	6.47324
2.3201	33.01	29.578	85.83	191.46824	6.473333
2.3202	33.01	29.579	85.84	191.47746	6.473426
2.3203	33.02	29.58	85.84	191.48669	6.473519
2.3204	33.02	29.581	85.84	191.49591	6.473612
2.3205	33.02	29.582	85.84	191.50514	6.473705
2.3206	33.03	29.583	85.84	191.51436	6.473798
2.3207	33.03	29.584	85.84	191.52358	6.473891
2.3208	33.03	29.585	85.84	191.5328	6.473983
2.3209	33.03	29.586	85.84	191.54202	6.474076
2.321	33.04	29.587	85.84	191.55124	6.474169
2.3211	33.04	29.588	85.85	191.56045	6.474262
2.3212	33.04	29.589	85.85	191.56967	6.474354
2.3213	33.05	29.59	85.85	191.57888	6.474447
2.3214	33.05	29.591	85.85	191.5881	6.47454
2.3215	33.05	29.592	85.85	191.59731	6.474632
2.3216	33.06	29.593	85.85	191.60652	6.474724
2.3217	33.06	29.594	85.85	191.61573	6.474817
2.3218	33.06	29.595	85.85	191.62494	6.474909
2.3219	33.06	29.596	85.85	191.63415	6.475002
2.322	33.07	29.597	85.86	191.64336	6.475094
2.3221	33.07	29.598	85.86	191.65256	6.475186
2.3222	33.07	29.599	85.86	191.66177	6.475279
2.3223	33.08	29.6	85.86	191.67097	6.475371
2.3224	33.08	29.601	85.86	191.68017	6.475463
2.3225	33.08	29.602	85.86	191.68937	6.475555
2.3226	33.08	29.603	85.86	191.69857	6.475647
2.3227	33.09	29.604	85.86	191.70777	6.475739
2.3228	33.09	29.605	85.86	191.71697	6.475831
2.3229	33.09	29.606	85.86	191.72616	6.475922
2.323	33.1	29.607	85.87	191.73536	6.476014
2.323	33.1	29.608	85.87	191.74455	6.476106
2.3231	33.1	29.609	85.87	191.75375	6.476198
2.3232	33.11	29.61	85.87	191.76294	6.47629
2.3233	33.11	29.611	85.87	191.77213	6.476381
2.3234	33.11	29.612	85.87	191.78132	6.476473
2.3235	33.11	29.613	85.87	191.79051	6.476565
2.3236	33.12	29.614	85.87	191.7997	6.476656
2.3237	33.12	29.615	85.87	191.80888	6.476748
2.3238	33.12	29.616	85.88	191.81807	6.476839
2.3239	33.13	29.617	85.88	191.82725	6.47693
2.324	33.13	29.618	85.88	191.83643	6.477022
2.3241	33.13	29.619	85.88	191.84562	6.477113
2.3242	33.14	29.62	85.88	191.8548	6.477205
2.3243	33.14	29.621	85.88	191.86398	6.477296
2.3244	33.14	29.622	85.88	191.87315	6.477387
2.3245	33.14	29.623	85.88	191.88233	6.477478
2.3246	33.15	29.624	85.88	191.89151	6.477569
2.3247	33.15	29.625	85.89	191.90068	6.47766
2.3248	33.15	29.626	85.89	191.90986	6.477751
2.3249	33.16	29.627	85.89	191.91903	6.477842
2.325	33.16	29.628	85.89	191.9282	6.477933
2.3251	33.16	29.629	85.89	191.93737	6.478024
2.3252	33.16	29.63	85.89	191.94654	6.478115
2.3253	33.17	29.631	85.89	191.95571	6.478206
2.3254	33.17	29.632	85.89	191.96488	6.478296
2.3255	33.17	29.633	85.89	191.97404	6.478387
2.3256	33.18	29.634	85.9	191.98321	6.478478
2.3257	33.18	29.635	85.9	191.99237	6.478568
2.3258	33.18	29.636	85.9	192.00153	6.478659
2.3259	33.19	29.637	85.9	192.01069	6.478749
2.326	33.19	29.638	85.9	192.01986	6.47884
2.3261	33.19	29.639	85.9	192.02901	6.47893
2.3262	33.19	29.64	85.9	192.03817	6.479021
2.3263	33.2	29.641	85.9	192.04733	6.479111
2.3264	33.2	29.642	85.9	192.05649	6.479201
2.3265	33.2	29.643	85.9	192.06564	6.479292
2.3266	33.21	29.644	85.91	192.07479	6.479382
2.3267	33.21	29.645	85.91	192.08395	6.479472
2.3268	33.21	29.646	85.91	192.0931	6.479562
2.3268	33.22	29.647	85.91	192.10225	6.479652
2.3269	33.22	29.648	85.91	192.1114	6.479742
2.327	33.22	29.649	85.91	192.12054	6.479832
2.3271	33.22	29.65	85.91	192.12969	6.479922
2.3272	33.23	29.651	85.91	192.13884	6.480012
2.3273	33.23	29.652	85.91	192.14798	6.480102
2.3274	33.23	29.653	85.92	192.15712	6.480192
2.3275	33.24	29.654	85.92	192.16627	6.480282
2.3276	33.24	29.655	85.92	192.17541	6.480371
2.3277	33.24	29.656	85.92	192.18455	6.480461
2.3278	33.25	29.657	85.92	192.19369	6.480551
2.3279	33.25	29.658	85.92	192.20282	6.48064
2.328	33.25	29.659	85.92	192.21196	6.48073
2.3281	33.25	29.66	85.92	192.2211	6.480819
2.3282	33.26	29.661	85.92	192.23023	6.480909
2.3283	33.26	29.662	85.93	192.23936	6.480998
2.3284	33.26	29.663	85.93	192.2485	6.481088
2.3285	33.27	29.664	85.93	192.25763	6.481177
2.3286	33.27	29.665	85.93	192.26676	6.481266
2.3287	33.27	29.666	85.93	192.27589	6.481355
2.3288	33.28	29.667	85.93	192.28501	6.481444
2.3289	33.28	29.668	85.93	192.29414	6.481534
2.329	33.28	29.669	85.93	192.30326	6.481623
2.3291	33.28	29.67	85.93	192.31239	6.481712
2.3292	33.29	29.671	85.93	192.32151	6.481801
2.3293	33.29	29.672	85.94	192.33063	6.48189
2.3294	33.29	29.673	85.94	192.33975	6.481979
2.3295	33.3	29.674	85.94	192.34887	6.482067
2.3296	33.3	29.675	85.94	192.35799	6.482156
2.3297	33.3	29.676	85.94	192.36711	6.482245
2.3298	33.31	29.677	85.94	192.37623	6.482334
2.3299	33.31	29.678	85.94	192.38534	6.482423
2.33	33.31	29.679	85.94	192.39446	6.482512
2.33	33.31	29.68	85.94	192.40357	6.4826
2.3301	33.32	29.681	85.95	192.41268	6.482689
2.3302	33.32	29.682	85.95	192.42179	6.482777
2.3303	33.32	29.683	85.95	192.4309	6.482866
2.3304	33.33	29.684	85.95	192.44001	6.482954
2.3305	33.33	29.685	85.95	192.44912	6.483043
2.3306	33.33	29.686	85.95	192.45822	6.483131
2.3307	33.34	29.687	85.95	192.46733	6.483219
2.3308	33.34	29.688	85.95	192.47643	6.483307
2.3309	33.34	29.689	85.95	192.48553	6.483396
2.331	33.34	29.69	85.96	192.49463	6.483484
2.3311	33.35	29.691	85.96	192.50373	6.483572
2.3312	33.35	29.692	85.96	192.51283	6.48366
2.3313	33.35	29.693	85.96	192.52193	6.483748
2.3314	33.36	29.694	85.96	192.53103	6.483836
2.3315	33.36	29.695	85.96	192.54013	6.483924
2.3316	33.36	29.696	85.96	192.54922	6.484012
2.3317	33.37	29.697	85.96	192.55831	6.4841
2.3318	33.37	29.698	85.96	192.56741	6.484188
2.3319	33.37	29.699	85.97	192.5765	6.484276
2.332	33.37	29.7	85.97	192.58559	6.484363
2.3321	33.38	29.701	85.97	192.59468	6.484451
2.3322	33.38	29.702	85.97	192.60377	6.484539
2.3323	33.38	29.703	85.97	192.61285	6.484626
2.3324	33.39	29.704	85.97	192.62194	6.484714
2.3325	33.39	29.705	85.97	192.63102	6.484801
2.3326	33.39	29.706	85.97	192.64011	6.484889
2.3327	33.4	29.707	85.97	192.64919	6.484976
2.3328	33.4	29.708	85.98	192.65827	6.485064
2.3328	33.4	29.709	85.98	192.66735	6.485151
2.3329	33.4	29.71	85.98	192.67643	6.485238
2.333	33.41	29.711	85.98	192.68551	6.485326
2.3331	33.41	29.712	85.98	192.69458	6.485413
2.3332	33.41	29.713	85.98	192.70366	6.4855
2.3333	33.42	29.714	85.98	192.71273	6.485587
2.3334	33.42	29.715	85.98	192.72181	6.485674
2.3335	33.42	29.716	85.98	192.73088	6.485761
2.3336	33.43	29.717	85.98	192.73995	6.485848
2.3337	33.43	29.718	85.99	192.74902	6.485935
2.3338	33.43	29.719	85.99	192.75809	6.486022
2.3339	33.43	29.72	85.99	192.76716	6.486109
2.334	33.44	29.721	85.99	192.77622	6.486196
2.3341	33.44	29.722	85.99	192.78529	6.486283
2.3342	33.44	29.723	85.99	192.79435	6.486369
2.3343	33.45	29.724	85.99	192.80342	6.486456
2.3344	33.45	29.725	85.99	192.81248	6.486543
2.3345	33.45	29.726	85.99	192.82154	6.486629
2.3346	33.46	29.727	86	192.8306	6.486716
2.3347	33.46	29.728	86	192.83966	6.486802
2.3348	33.46	29.729	86	192.84871	6.486889
2.3349	33.47	29.73	86	192.85777	6.486975
2.335	33.47	29.731	86	192.86683	6.487062
2.3351	33.47	29.732	86	192.87588	6.487148
2.3352	33.47	29.733	86	192.88493	6.487234
2.3353	33.48	29.734	86	192.89398	6.48732
2.3353	33.48	29.735	86	192.90303	6.487406
2.3354	33.48	29.736	86.01	192.91208	6.487493
2.3355	33.49	29.737	86.01	192.92113	6.487579
2.3356	33.49	29.738	86.01	192.93018	6.487665
2.3357	33.49	29.739	86.01	192.93923	6.487751
2.3358	33.5	29.74	86.01	192.94827	6.487837
2.3359	33.5	29.741	86.01	192.95732	6.487923
2.336	33.5	29.742	86.01	192.96636	6.488009
2.3361	33.5	29.743	86.01	192.9754	6.488095
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2.338	33.57	29.763	86.03	193.156	6.489803
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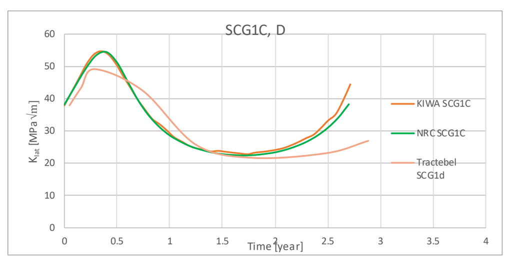

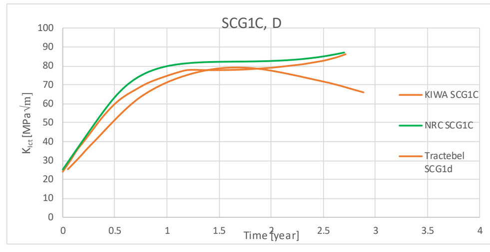

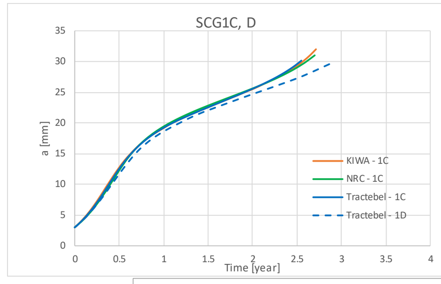

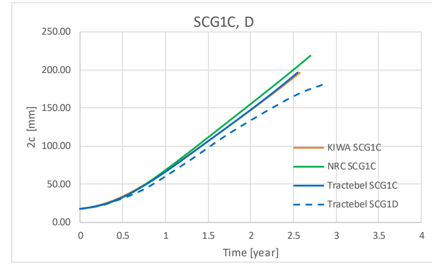

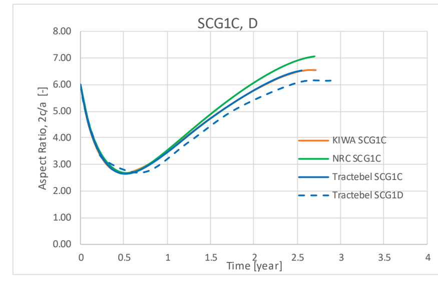

NRC SCG1C

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0.4	54.447	10.005	56.625	28.108	2.809395
0.5	51.199	12.272	63.519	32.937	2.683915
0.6	45.363	14.327	69.107	38.74	2.703985
0.7	39.498	16.02	73.282	45.382	2.832834
0.8	34.825	17.377	76.276	52.676	3.031363
0.9	31.309	18.486	78.381	60.454	3.270259
1	28.619	19.422	79.829	68.577	3.530893
1.1	26.727	20.232	80.79	76.943	3.803035
1.2	25.184	20.958	81.416	85.469	4.078109
1.3	24.165	21.619	81.795	94.102	4.352745
1.4	23.358	22.237	82.023	102.8	4.622926
1.5	22.817	22.822	82.147	111.536	4.887214
1.6	22.562	23.386	82.216	120.293	5.143804
1.7	22.429	23.94	82.272	129.062	5.391061
1.8	22.546	24.489	82.334	137.84	5.62865
1.9	22.892	25.042	82.434	146.629	5.855323
2	23.388	25.609	82.595	155.435	6.069546
2.1	24.186	26.196	82.829	164.269	6.270767
2.2	25.271	26.815	83.165	173.143	6.456946
2.3	26.671	27.479	83.624	182.074	6.625933
2.4	28.542	28.202	84.225	191.085	6.775583
2.5	30.968	29.009	84.993	200.199	6.901272
2.6	34.131	29.928	85.941	209.447	6.998363
2.7	38.28	31.002	87.05	218.86	7.059545

KIWA SCG1C

time	Kia	a	Kic	2c	
0	37.92223	3	24.10159	18	6
0.069593	42.12842	3.971424	29.68479	19.03213	4.792268
0.139186	46.34506	5.103891	35.69782	20.41587	4.00006
0.208778	50.6234	6.419425	40.53733	22.19876	3.45806
0.278371	53.64575	7.892624	45.53095	24.3707	3.087781
0.347964	54.70185	9.467721	50.63568	27.01073	2.852928
0.417557	53.71078	11.01217	55.22219	30.08555	2.732027
0.48715	50.90295	12.49931	59.25849	33.45153	2.676271
0.556743	47.08455	13.83534	62.5643	37.22265	2.690404
0.626335	43.43922	14.97211	65.15404	41.36185	2.762594
0.695928	39.71755	15.99688	67.34243	45.69398	2.85643
0.765521	36.60234	16.90191	69.54551	50.23239	2.971994
0.835114	33.6944	17.69631	71.40697	54.98338	3.107053
0.904707	32.08239	18.33382	72.88724	60.08648	3.277358
0.9743	30.11156	18.9391	74.23889	65.26526	3.44606
1.043892	28.02056	19.54438	75.54242	70.44404	3.604313
1.113485	26.73764	20.08979	76.70525	75.78885	3.772506
1.183078	25.44046	20.56514	77.69195	81.328	3.954654
1.252671	24.62763	21.03855	77.90995	86.86977	4.129076
1.322264	24.16377	21.472	77.81709	92.46583	4.306344
1.391857	23.66996	21.89481	77.76551	98.06226	4.478789
1.461449	23.84171	22.30583	77.75736	103.6591	4.647176
1.531042	23.55118	22.71684	77.78554	109.256	4.80947
1.600635	23.28059	23.12785	77.85165	114.8528	4.965996
1.670228	23.02844	23.53886	77.94813	120.4497	5.117055
1.739821	22.78902	23.9511	78.06616	126.0865	5.26433
1.809414	23.29403	24.36439	78.29593	131.758	5.407811
1.879006	23.52633	24.77768	78.55225	137.4296	5.546505
1.948599	23.84112	25.19098	78.82526	143.1011	5.680649
2.018192	24.22293	25.60427	79.11276	148.7726	5.810462
2.087785	24.78052	26.07326	79.51029	154.5814	5.928731
2.157378	25.63598	26.55546	79.93709	160.4226	6.04104
2.22697	26.65644	27.03765	80.37028	166.2638	6.149344
2.296563	27.80727	27.51985	80.81067	172.105	6.253852
2.366156	28.85769	28.10394	81.4326	178.1111	6.337585
2.435749	30.94223	28.7159	82.08696	184.1622	6.413248
2.505342	33.2887	29.33673	82.7676	190.2232	6.484131
2.574935	35.15622	30.10455	83.72739	196.4521	6.525661
2.644527	39.35366	30.97291	84.8024	202.8066	6.547871
2.71412	44.44095	31.99193	86.17603	209.2888	6.541925

Tractebel SCG1C

time	Kia	a	Kic	2c	2c/a
0		3		18	6
0.05		3.64		18.64	5.120879
0.1		4.37		19.42	4.443936
0.15		5.18		20.42	3.942085
0.2		6.07		21.64	3.565074
0.25		7.05		23.02	3.265248
0.3		8.1		24.62	3.039506
0.35		9.22		26.42	2.86551
0.4		10.35		28.46	2.749758
0.45		11.47		30.74	2.680035
0.5		12.54		33.24	2.650718
0.55		13.53		35.94	2.656319
0.6		14.44		38.82	2.688366
0.65		15.26		41.86	2.743119
0.7		16		45.02	2.81375
0.75		16.66		48.32	2.90036
0.8		17.26		51.74	2.997683
0.85		17.81		55.24	3.101628
0.9		18.32		58.86	3.212882
0.95		18.78		62.56	3.331203
1		19.21		66.32	3.452369
1.05		19.62		70.18	3.576962
1.1		19.99		74.08	3.705853
1.15		20.35		78.06	3.835872
1.2		20.68		82.08	3.969052
1.25		21		86.18	4.10381
1.3		21.32		90.26	4.233583
1.35		21.63		94.34	4.361535
1.4		21.94		98.42	4.485871
1.45		22.24		102.5	4.608813
1.5		22.54		106.56	4.727595
1.55		22.84		110.64	4.844133
1.6		23.14		114.72	4.957649
1.65		23.43		118.82	5.071276
1.7		23.73		122.9	5.179098
1.75		24.03		127.02	5.285893
1.8		24.32		131.14	5.39227
1.85		24.62		135.28	5.49472
1.9		24.93		139.44	5.593261
1.95		25.24		143.62	5.690174
2		25.55		147.84	5.786301
2.05		25.88		152.08	5.876352
2.1		26.21		156.34	5.964899
2.15		26.56		160.66	6.048946
2.2		26.92		165	6.129272
2.25		27.29		169.38	6.206669
2.3		27.69		173.8	6.276634
2.35		28.11		178.28	6.342227
2.4		28.56		182.8	6.40056
2.45		29.04		187.4	6.453168
2.5		29.57		192.04	6.49442
2.55		30.14		196.76	6.528202
2.6		30.78		201.56	6.548408
2.65		31.49		206.44	6.555732
2.7		32.29		211.42	6.547538
2.75		32.29		211.42	6.547538
2.8		32.29		211.42	6.547538
2.85		32.29		211.42	6.547538
2.9		32.29		211.42	6.547538
2.95		32.29		211.42	6.547538
3		32.29		211.42	6.547538
3.05		32.29		211.42	6.547538
3.1		32.29		211.42	6.547538
3.15		32.29		211.42	6.547538
3.2		32.29		211.42	6.547538
3.25		32.29		211.42	6.547538
3.3		32.29		211.42	6.547538
3.35		32.29		211.42	6.547538
3.4		32.29		211.42	6.547538
3.45		32.29		211.42	6.547538
3.5		32.29		211.42	6.547538
3.55		32.29		211.42	6.547538
3.6		32.29		211.42	6.547538
3.65		32.29		211.42	6.547538
3.7		32.29		211.42	6.547538
3.75		32.29		211.42	6.547538
3.8		32.29		211.42	6.547538
3.85		32.29		211.42	6.547538
3.9		32.29		211.42	6.547538
3.95		32.29		211.42	6.547538
4		32.29		211.42	6.547538
4.05		32.29		211.42	6.547538
4.1		32.29		211.42	6.547538
4.15		32.29		211.42	6.547538
4.2		32.29		211.42	6.547538
4.25		32.29		211.42	6.547538
4.3		32.29		211.42	6.547538
4.35		32.29		211.42	6.547538
4.4		32.29		211.42	6.547538
4.45		32.29		211.42	6.547538
4.5		32.29		211.42	6.547538
4.55		32.29		211.42	6.547538
4.6		32.29		211.42	6.547538
4.65		32.29		211.42	6.547538
4.7		32.29		211.42	6.547538
4.75		32.29		211.42	6.547538
4.8		32.29		211.42	6.547538
4.85		32.29		211.42	6.547538
4.9		32.29		211.42	6.547538
4.95		32.29		211.42	6.547538
5		32.29		211.42	6.547538

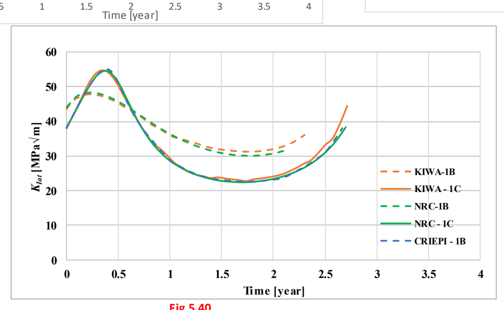

Fig 5.40

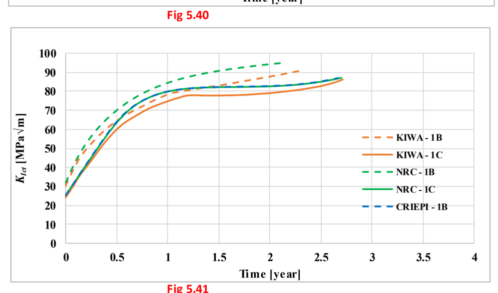

Fig 5.41

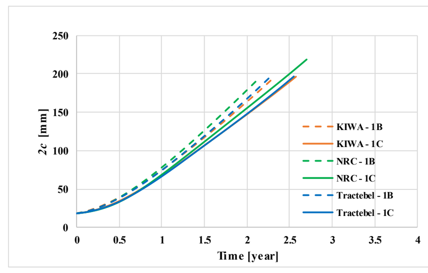

Fig 5.44

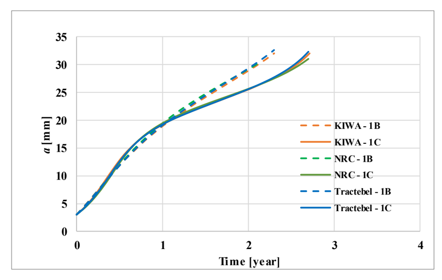

Fig 5.43

dl(mm)
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1.89
1.92
1.96
1.99
2.01
2.04
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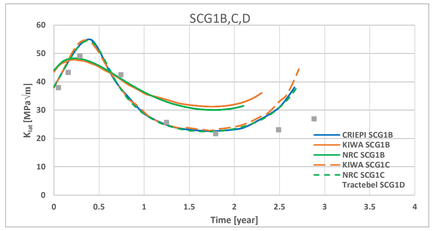
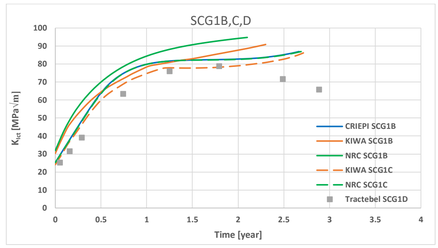
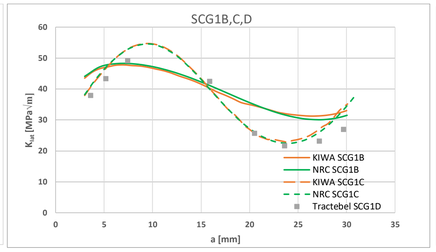
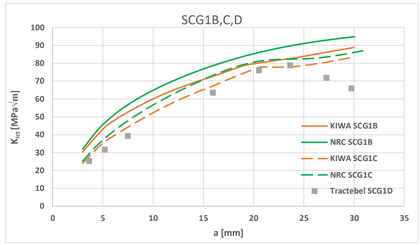
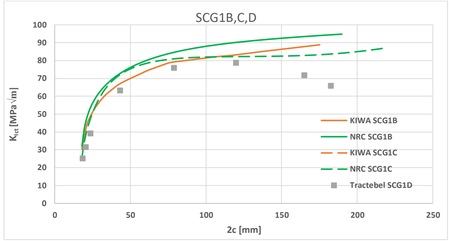










Tractebel

time	Ka	a	Kc	2c	2c/a
0		3		18	6
0.04896	37.94	3.6	25.37	18.4	5.111111
0.101673		4.31		19.2	4.454756
0.158543	43.4	5.17	31.59	20.4	3.945841
0.220256		6.2		21.6	3.483871
0.287926	49.16	7.44	39.27	23.4	3.145161
0.364598		8.91		25.6	2.873176
0.452651		10.7		28.6	2.672897
0.54786		12.6		32.8	2.603175
0.645122		14.4		37.6	2.611111
0.743166	42.5	15.9	63.44	43.2	2.716981
0.842708		17.4		49.4	2.83908
0.944207		18.5		56.2	3.037838
1.045661		19.2		63.6	3.3125
1.147052		19.8		71	3.585859
1.24972	25.72	20.5	76.05	78.8	3.843902
1.353864		21.2		86.6	4.084906
1.459724		21.8		94.8	4.348624
1.567405		22.4		103.2	4.607143
1.677645		23		111.2	4.834783
1.791211	21.67	23.6	78.92	119.8	5.076271
1.912706		24.2		128.6	5.31405
2.040313		24.8		137.2	5.532258
2.177442		25.5		146.4	5.741176
2.325294		26.3		155.4	5.908745
2.489342	23.14	27.2	71.84	164.8	6.058824
2.67066		28.3		173.4	6.127208
2.884876	26.94	29.7	66.021	182.6	6.148148

Tractebel SCG1D

time	Kiat	a	Kict	2c	2c/a
0		3		18	6
0.04896	37.94	3.6	25.37	18.4	5.111111
0.158543	43.4	5.17	31.59	20.4	3.945841
0.287926	49.16	7.44	39.27	23.4	3.145161
0.743166	42.5	15.9	63.44	43.2	2.716981
1.24972	25.72	20.5	76.05	78.8	3.843902
1.791211	21.67	23.6	78.92	119.8	5.076271
2.489342	23.14	27.2	71.84	164.8	6.058824
2.884876	26.94	29.7	66.021	182.6	6.148148

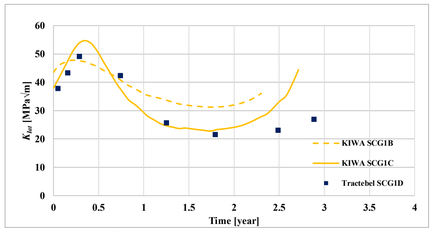


Fig 5.45

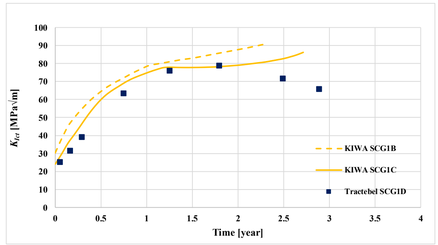


Fig 5.46

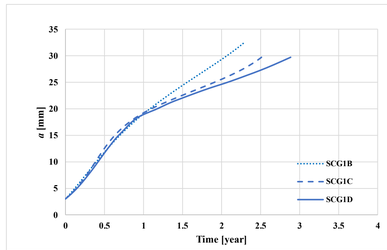


Fig 5.47

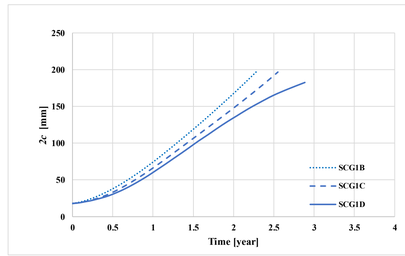


Fig 5.48

x/t	WRS1 (w_t = 40 mm)	WRS2 (w_t = 80 mm)	WRS3 (w_t = 12 mm)	WRS4
0	315.865	297.0827	56.11229	359.99
0.04	140.8971	62.28207	46.21308	348.0227
0.08	2.377445	-76.4938	38.90808	367.2057
0.12	-104.175	-149.505	34.74113	385.2797
0.16	-182.666	-180.591	33.89035	383.3641
0.2	-236.503	-187.826	36.21522	353.076
0.24	-268.663	-184.174	41.30369	293.9255
0.28	-281.769	-178.146	48.51927	210.986
0.32	-278.16	-174.452	57.04811	112.8405
0.36	-259.967	-174.663	65.94611	9.803437
0.4	-229.184	-177.861	74.186	-87.5826
0.44	-187.743	-181.295	80.70448	-169.774
0.48	-137.581	-181.04	84.44921	-229.178
0.52	-80.7217	-172.65	84.42604	-260.828
0.56	-19.341	-151.816	79.74597	-262.785
0.6	44.15648	-115.017	69.67236	-236.265
0.64	107.0652	-60.1813	53.66793	-185.485
0.68	166.3063	12.66185	31.44192	-117.238
0.72	218.3539	100.7249	2.997152	-40.1922
0.76	259.1632	197.8067	-31.3229	36.08425
0.8	284.0965	293.6372	-70.7869	102.3786
0.84	287.8513	373.2212	-114.229	151.3601
0.88	264.3868	416.1833	-160	179.3837
0.92	206.8511	396.1119	-205.924	188.5689
0.96	107.5084	279.9038	-249.248	189.1549
1	-42.3339	27.10822	-286.594	202.13

x/t	WRS4	3'rd Order Polynomial Fit	4'th Order Polynomial Fit	% error 3rd order	% error 4th order	Stress diff 3rd order	Stress diff 4th order
0	359.99	477.116299	280.78693	32.53599	-22.0015	117.1263	-79.2031
0.04	348.0227	428.478025	389.212151	23.11784	11.83528	80.45532	41.18945
0.08	367.2057	377.4796	436.378411	2.79786	18.83759	10.2739	69.17271
0.12	385.2797	324.911864	435.027031	-15.6686	12.912	-60.3678	49.74733
0.16	383.3641	271.565653	396.812926	-29.1625	3.508108	-111.798	13.44883
0.2	353.076	218.231807	332.304602	-38.1913	-5.88298	-134.844	-20.7714
0.24	293.9255	165.701164	250.984159	-43.6248	-14.6096	-128.224	-42.9413
0.28	210.986	114.764563	161.247287	-45.6056	-23.5744	-96.2214	-49.7387
0.32	112.8405	66.2128403	70.4032695	-41.3217	-37.6082	-46.6277	-42.4372
0.36	9.803437	20.8368356	-15.325016	112.5462	-256.323	11.0334	-25.1285
0.4	-87.5826	-20.572613	-90.801103	-76.5106	3.67482	67.00999	-3.2185
0.44	-169.774	-57.224667	-151.97493	-66.2936	-10.484	112.5493	17.79907
0.48	-229.178	-88.328489	-195.88284	-61.4586	-14.5281	140.8495	33.29516
0.52	-260.828	-113.09324	-220.64759	-56.6407	-15.4049	147.7348	40.18041
0.56	-262.785	-130.72808	-225.47834	-50.2528	-14.1966	132.0569	37.30666
0.6	-236.265	-140.44218	-210.67066	-40.5574	-10.8329	95.82282	25.59434
0.64	-185.485	-141.44468	-177.60654	-23.7433	-4.24749	44.04032	7.878464
0.68	-117.238	-132.94477	-128.75434	13.39734	9.823043	-15.7068	-11.5163
0.72	-40.1922	-114.15159	-67.668866	184.0143	68.36318	-73.9594	-27.4767
0.76	36.08425	-84.274311	1.00868355	-333.549	-97.2046	-120.359	-35.0756
0.8	102.3786	-42.522093	71.5507021	-141.534	-30.1117	-144.901	-30.8279
0.84	151.3601	11.8959021	137.143175	-92.1407	-9.39278	-139.464	-14.2169
0.88	179.3837	79.7705128	189.88568	-55.5308	5.854479	-99.6132	10.50198
0.92	188.5689	161.892577	220.791388	-14.1467	17.08791	-26.6763	32.22249
0.96	189.1549	259.052934	219.78706	36.9528	16.19422	69.89803	30.63216
1	202.13	372.042421	175.713053	84.06096	-13.0693	169.9124	-26.4169

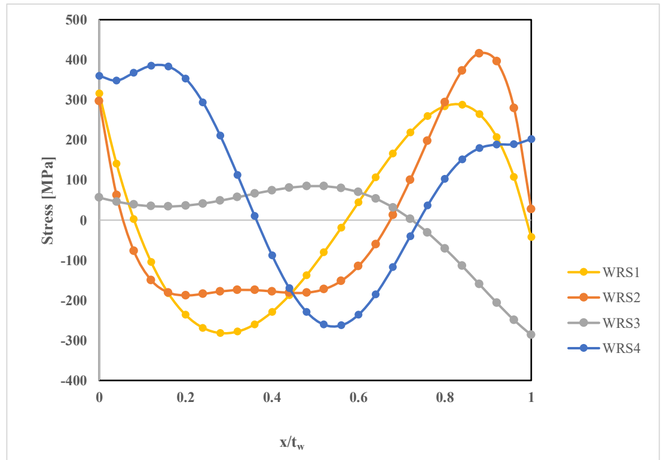


Figure 3.4

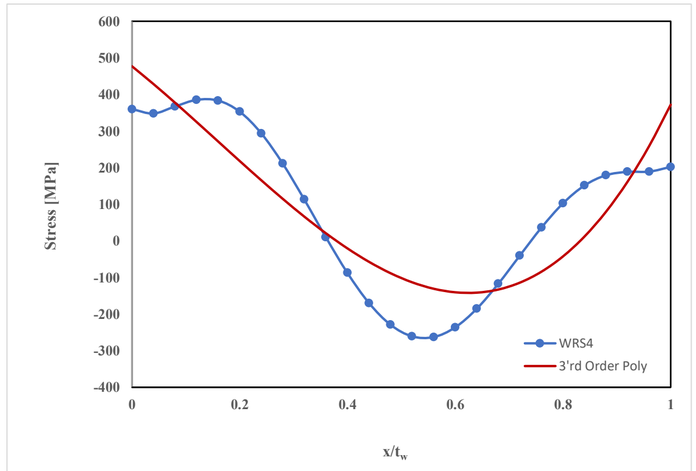
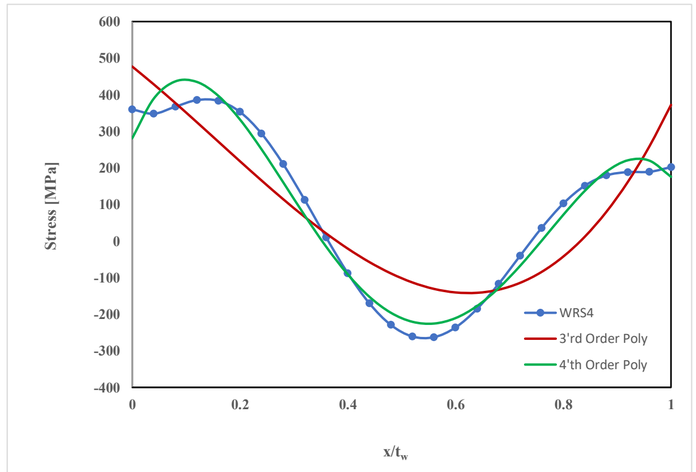


Figure 5.42



Participating Organization	RSD, BARC, Mumbai, India	Reporting Date	Mar-23

Codes and Procedures Used in Analysis (add space as needed)

	Name and Version #	List any code or analysis limitations for these problems (e.g., utilizes flat-plate K-solutions)	List any analysis assumptions	Briefly describe the approach that your code or analysis uses to determine output variables (e.g., K_{Ic}, Δc)	Briefly describe the approach used to incorporate WRS within the evaluation	Provide any other comments related to your code capabilities or evaluation approach that affects your results
Task 1: PWSCC Code(s)	API 579-1/ASME FFS-1 2021 Fitness-For-Service	NOTE 1: For present case with t/R=0.25, Table C.14 of API code gives influence coefficients for t/R=0.2 and t/R=0.33333 with starting value of crack aspect ratio (a/c) as 0.0625 (for t/R=0.2) and as 0.125 (for t/R=0.3333). Hence, if aspect ratio tends to go below 0.125, influence coefficients could not be evaluated. In the case of SCG1A, analyses could be carried out till crack front aspect ratio (a/c) reaches 0.125. This did not allow the analyses to be conducted till a/t=0.75. The crack aspect ratio of 0.125 reaches in nearly 13.4 years for SCG1A case.		For these analysis sets, Δa was fixed constant as 0.001mm and corresponding increment in time was evaluated. For the evaluated incremental time, ΔJ was evaluated.	The 4th order poly nomial was fit on WRS 1 and WRS 4 for estimation of stress intensity factor.	
Task 1 (SCG1D): Advanced FE Crack Growth Code(s)						

Quantitative Outputs (add space as needed)

Task 1: PWSCC Crack Growth

SCG Task:

Analysis ID:

SCG1A

Time @ a = 0.75 t_w		a @ 0.75 t_w		2c @ 0.75 t_w		
(years)	Note 1	(mm)	Note 1	(mm)	Note 1	
13.4		19.05		38.10		

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface				
Time Block n°	Time (Year)	K_{Ic} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{Im} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)	
0	0.0		3.000		0.00E+00		18.000000		0.00E+00	
1	0.00030	16.40	3.0010	1.06E-07	1.00E-03	18.93	18.002920	1.33E-07	2.92E-03	
2	0.00060	16.39	3.0020	1.06E-07	1.00E-03	18.93	18.005030	1.33E-07	2.51E-03	
3	0.00090	16.39	3.0030	1.06E-07	1.00E-03	18.94	18.007560	1.33E-07	2.52E-03	
4	0.00120	16.39	3.0040	1.06E-07	1.00E-03	18.94	18.010070	1.33E-07	2.52E-03	
5	0.00150	16.39	3.0050	1.06E-07	1.00E-03	18.94	18.012599	1.33E-07	2.52E-03	
6	0.00180	16.38	3.0060	1.05E-07	1.00E-03	18.95	18.015111	1.33E-07	2.52E-03	
7	0.00211	16.38	3.0070	1.05E-07	1.00E-03	18.95	18.017763	1.33E-07	2.52E-03	
8	0.00241	16.38	3.0080	1.05E-07	1.00E-03	18.95	18.020316	1.33E-07	2.53E-03	
9	0.00271	16.37	3.0090	1.05E-07	1.00E-03	18.96	18.022999	1.33E-07	2.53E-03	
10	0.00301	16.37	3.0100	1.05E-07	1.00E-03	18.96	18.025521	1.33E-07	2.52E-03	
11	0.00331	16.37	3.0110	1.05E-07	1.00E-03	18.97	18.02774	1.33E-07	2.53E-03	
12	0.00361	16.37	3.0120	1.05E-07	1.00E-03	18.97	18.030307	1.33E-07	2.53E-03	
13	0.00391	16.36	3.0130	1.05E-07	1.00E-03	18.97	18.032821	1.33E-07	2.54E-03	
14	0.00422	16.36	3.0140	1.05E-07	1.00E-03	18.98	18.035334	1.33E-07	2.53E-03	
15	0.00452	16.36	3.0150	1.05E-07	1.00E-03	18.98	18.03787	1.33E-07	2.53E-03	
16	0.00482	16.35	3.0160	1.05E-07	1.00E-03	18.98	18.040341	1.33E-07	2.54E-03	
17	0.00512	16.35	3.0170	1.05E-07	1.00E-03	18.99	18.04295	1.33E-07	2.54E-03	
18	0.00542	16.35	3.0180	1.05E-07	1.00E-03	18.99	18.045493	1.33E-07	2.54E-03	
19	0.00572	16.34	3.0190	1.05E-07	1.00E-03	18.99	18.048003	1.33E-07	2.54E-03	
20	0.00603	16.34	3.0200	1.05E-07	1.00E-03	19.00	18.050557	1.33E-07	2.54E-03	
21	0.00633	16.34	3.0210	1.05E-07	1.00E-03	19.00	18.053111	1.33E-07	2.54E-03	
22	0.00663	16.34	3.0220	1.05E-07	1.00E-03	19.00	18.05566	1.34E-07	2.55E-03	
23	0.00693	16.33	3.0230	1.05E-07	1.00E-03	19.01	18.058251	1.34E-07	2.55E-03	
24	0.00724	16.33	3.0240	1.05E-07	1.00E-03	19.01	18.060773	1.34E-07	2.54E-03	
25	0.00754	16.33	3.0250	1.05E-07	1.00E-03	19.01	18.0633	1.34E-07	2.55E-03	
26	0.00784	16.32	3.0260	1.05E-07	1.00E-03	19.02	18.065858	1.34E-07	2.55E-03	
27	0.00814	16.32	3.0270	1.05E-07	1.00E-03	19.02	18.068441	1.34E-07	2.55E-03	
28	0.00845	16.32	3.0280	1.05E-07	1.00E-03	19.02	18.07096	1.34E-07	2.55E-03	
29	0.00875	16.32	3.0290	1.05E-07	1.00E-03	19.03	18.073522	1.34E-07	2.55E-03	
30	0.00905	16.31	3.0300	1.05E-07	1.00E-03	19.03	18.076007	1.34E-07	2.55E-03	
31	0.00936	16.31	3.0310	1.05E-07	1.00E-03	19.03	18.078563	1.34E-07	2.56E-03	
32	0.00966	16.31	3.0320	1.05E-07	1.00E-03	19.04	18.08119	1.34E-07	2.56E-03	
33	0.00996	16.3	3.0330	1.05E-07	1.00E-03	19.04	18.08375	1.34E-07	2.56E-03	
34	0.01027	16.3	3.0340	1.05E-07	1.00E-03	19.04	18.086632	1.34E-07	2.57E-03	
35	0.01057	16.3	3.0350	1.05E-07	1.00E-03	19.05	18.08888	1.34E-07	2.56E-03	
36	0.01087	16.3	3.0360	1.05E-07	1.00E-03	19.05	18.09145	1.34E-07	2.57E-03	
37	0.01118	16.29	3.0370	1.05E-07	1.00E-03	19.05	18.09401	1.34E-07	2.56E-03	
38	0.01148	16.29	3.0380	1.04E-07	1.00E-03	19.06	18.096958	1.34E-07	2.57E-03	
39	0.01179	16.29	3.0390	1.04E-07	1.00E-03	19.06	18.099515	1.34E-07	2.57E-03	
40	0.01209	16.28	3.0400	1.04E-07	1.00E-03	19.06	18.10172	1.34E-07	2.57E-03	
41	0.01239	16.28	3.0410	1.04E-07	1.00E-03	19.07	18.1043	1.34E-07	2.58E-03	
42	0.01270	16.28	3.0420	1.04E-07	1.00E-03	19.07	18.10687	1.34E-07	2.57E-03	
43	0.01300	16.27	3.0430	1.04E-07	1.00E-03	19.07	18.10945	1.34E-07	2.58E-03	
44	0.01331	16.27	3.0440	1.04E-07	1.00E-03	19.08	18.11203	1.34E-07	2.58E-03	
45	0.01361	16.27	3.0450	1.04E-07	1.00E-03	19.08	18.1146	1.34E-07	2.58E-03	
46	0.01391	16.27	3.0460	1.04E-07	1.00E-03	19.08	18.11718	1.34E-07	2.58E-03	
47	0.01422	16.26	3.0470	1.04E-07	1.00E-03	19.09	18.11977	1.34E-07	2.59E-03	
48	0.01452	16.26	3.0480	1.04E-07	1.00E-03	19.09	18.12235	1.35E-07	2.58E-03	
49	0.01483	16.26	3.0490	1.04E-07	1.00E-03	19.09	18.12494	1.35E-07	2.59E-03	
50	0.01513	16.25	3.0500	1.04E-07	1.00E-03	19.10	18.12752	1.35E-07	2.58E-03	
51	0.01544	16.25	3.0510	1.04E-07	1.00E-03	19.10	18.13011	1.35E-07	2.59E-03	
52	0.01574	16.25	3.0520	1.04E-07	1.00E-03	19.10	18.1327	1.35E-07	2.59E-03	
53	0.01605	16.25	3.0530	1.04E-07	1.00E-03	19.11	18.13529	1.35E-07	2.59E-03	
54	0.01635	16.24	3.0540	1.04E-07	1.00E-03	19.11	18.13788	1.35E-07	2.59E-03	
55	0.01666	16.24	3.0550	1.04E-07	1.00E-03	19.11	18.14048	1.35E-07	2.60E-03	
56	0.01696	16.24	3.0560	1.04E-07	1.00E-03	19.12	18.14307	1.35E-07	2.59E-03	
57	0.01727	16.23	3.0570	1.04E-07	1.00E-03	19.12	18.14567	1.35E-07	2.60E-03	
58	0.01757	16.23	3.0580	1.04E-07	1.00E-03	19.12	18.14827	1.35E-07	2.60E-03	
59	0.01788	16.23	3.0590	1.04E-07	1.00E-03	19.13	18.15087	1.35E-07	2.60E-03	
60	0.01819	16.22	3.0600	1.04E-07	1.00E-03	19.13	18.15347	1.35E-07	2.60E-03	
61	0.01849	16.22	3.0610	1.04E-07	1.00E-03	19.13	18.15607	1.35E-07	2.60E-03	
62	0.01880	16.22	3.0620	1.04E-07	1.00E-03	19.14	18.15867	1.35E-07	2.60E-03	
63	0.01910	16.22	3.0630	1.04E-07	1.00E-03	19.14	18.16128	1.35E-07	2.61E-03	
64	0.01941	16.21	3.0640	1.04E-07	1.00E-03	19.15	18.16388	1.35E-07	2.61E-03	
65	0.01972	16.21	3.0650	1.04E-07	1.00E-03	19.15	18.1665	1.35E-07	2.61E-03	
66	0.02002	16.21	3.0660	1.04E-07	1.00E-03	19.15	18.16911	1.35E-07	2.61E-03	
67	0.02033	16.2	3.0670	1.04E-07	1.00E-03	19.16	18.17172	1.35E-07	2.61E-03	
68	0.02063	16.2	3.0680	1.04E-07	1.00E-03	19.16	18.17433	1.35E-07	2.61E-03	
69	0.02094	16.2	3.0690	1.04E-07	1.00E-03	19.16	18.17695	1.35E-07	2.62E-03	
70	0.02125	16.19	3.0700	1.04E-07	1.00E-03	19.17	18.17956	1.35E-07	2.61E-03	
71	0.02155	16.19	3.0710	1.04E-07	1.00E-03	19.17	18.18218	1.35E-07	2.62E-03	
72	0.02186	16.19	3.0720	1.03E-07	1.00E-03	19.17	18.1848	1.35E-07	2.62E-03	
73	0.02217	16.19	3.0730	1.03E-07	1.00E-03	19.18	18.18742	1.35E-07	2.62E-03	
74	0.02247	16.18	3.0740	1.03E-07	1.00E-03	19.18	18.19004	1.35E-07	2.62E-03	
75	0.02278	16.18	3.0750	1.03E-07	1.00E-03	19.18	18.19267	1.35E-07	2.63E-03	
76	0.02309	16.18	3.0760	1.03E-07	1.00E-03	19.19	18.19529	1.36E-07	2.62E-03	
77	0.02340	16.17	3.0770	1.03E-07	1.00E-03	19.19	18.19792	1.36E-07	2.63E-03	
78	0.02370	16.17	3.0780	1.03E-07	1.00E-03	19.19	18.20055	1.36E-07	2.63E-03	
79	0.02401	16.17	3.0790	1.03E-07	1.00E-03	19.20	18.20318	1.36E-07	2.63E-03	
80	0.02432	16.17	3.0800	1.03E-07	1.00E-03	19.20	18.20581	1.36E-07	2.63E-03	
81	0.02463	16.16	3.0810	1.03E-07	1.00E-03	19.20	18.20844	1.36E-07	2.63E-03	
82	0.02493	16.16	3.0820	1.03E-07	1.00E-03	19.21	18.21107	1.36E-07	2.63E-03	
83	0.02524	16.16	3.0830	1.03E-07	1.00E-03	19.21	18.21371	1.36E-07	2.64E-03	
84	0.02555	16.15	3.0840	1.03E-07	1.00E-03	19.21	18.21635	1.36E-07	2.64E-03	
85	0.02586	16.15	3.0850	1.03E-07	1.00E-03	19.22	18.21898	1.36E-07	2.63E-03	
86	0.02616	16.15	3.0860	1.03E-07	1.00E-03	19.22	18.22163	1.36E-07	2.65E-03	
87	0.02647	16.14	3.0870	1.03E-07	1.00E-03	19.22	18.22427	1.36E-07	2.64E-03	
88	0.02678	16.14	3.0880	1.03E-07	1.00E-03	19.23	18.22691	1.36E-07	2.64E-03	
89	0.02709	16.14	3.0890	1.03E-07	1.00E-03	19.23	18.22956	1.36E-07	2.65E-03	
90	0.02740	16.14	3.0900	1.03E-07	1.00E-03	19.23	18.2322	1.36E-07	2.64E-03	
91	0.02771	16.13	3.0910	1.03E-07	1.00E-03	19.24	19.23485	1.36E-07	2.65E-03	
92	0.02801	16.13	3.0920	1.03E-07	1.00E-03	19.24	18.2375	1.36E-07	2.65E-03	
93	0.02832	16.13	3.0930	1.03E-07	1.00E-03	19.24	18.24015	1.36E-07	2.65E-03	
94	0.02863	16.12	3.0940	1.03E-07	1.00E-03	19.25	18.24281	1.36E-07	2.66E-03	
95	0.02894	16.12	3.0950	1.03E-07	1.00E-03	19.25	18.24546	1.36E-07	2.66E-03	
96	0.02925	16.12	3.0960	1.03E-07	1.00E-03	19.25	18.24811	1.36E-07	2.65E-03	
97	0.02956	16.11	3.0970	1.03E-07	1.00E-03	19.25	18.25077	1.36E-07	2.66E-03	
98	0.02987	16.11	3.0980	1.03E-07	1.00E-03	19.26	19.25343	1.36E-07	2.66E-03	
99	0.03018	16.11	3.0990	1.03E-07	1.00E-03	19.26	18.25609	1.36E-07	2.66E-03	
100	0.03049	16.11	3.1000	1.03E-07	1.00E-03	19.26	18.25875	1.36E-07	2.66E-03	
101	0.03080	16.1	3.1010	1.03E-07	1.00E-03	19.27	18.26141	1.36E-07	2.66E-03	
102	0.03110	16.1	3.1020	1.03E-07	1.00E-03	19.27	18.26408	1.37E-07	2.67E-03	
103	0.03141	16.1	3.1030	1.03E-07	1.00E-03	19.27	18.26674	1.37E-07	2.66E-03	
104	0.03172	16.09	3.1040	1.03E-07	1.00E-03	19.28	18.26941	1.37E-07	2.67E-03	
105	0.03203	16.09	3.1050	1.02E-07	1.00E-03	19.28	18.27208	1.37E-07	2.67E-03	
106	0.03234	16.09	3.1060	1.02E-07	1.00E-03	19.28	18.27475	1.37E-07	2.67E-03	
107	0.03265	16.08	3.1070	1.02E-07	1.00E-03	19.29	18.27742	1.37E-07	2.67E-03	
108	0.03296	16.08	3.1080	1.02E-07	1.00E-03	19.29	18.28009	1.37E-07	2.67E-03	
109	0.03327	16.08	3.1090	1.02E-07	1.00E-03	19.29	18.28277	1.37E-07	2.68E-03	
110	0.03358	16.08	3.1100	1.02E-07	1.00E-03	19.30	18.28545	1.37E-07	2.68E-03	
111	0.03389	16.07	3.1110	1.02E-07	1.00E-03	19.30	18.28812	1.37E-07	2.67E-03	
112	0.03420	16.07	3.1120	1.02E-07	1.00E-03	19.30	18.2908	1.37E-07	2.68E-03	
113	0.03452	16.07	3.1130	1.02E-07	1.00E-03	19.31	18.29348	1.37E-07	2.68E-03	
114	0.03483	16.06	3.1140	1.02E-07	1.00E-03	19.31	18.29617	1.37E-07	2.68E-03	
115	0.03514	16.06	3.1150	1.02E-07	1.00E-03	19.31	18.29885	1.37E-07	2.68E-03	
116	0.03545	16.06	3.1160	1.02E-07	1.00E-03	19.32	18.30154	1.37E-07	2.69E-03	
117	0.03576	16.05	3.1170	1.02E-07	1.00E-03	19.32	18.30423	1.37E-07	2.69E-03	
118	0.03607	16.05	3.1180	1.02E-07	1.00E-03	19.32	18.30692	1.37E-07	2.69E-03	
119	0.03638	16.05	3.1190	1.02E-07	1.00E-03	19.33	18.30961	1.37E-07	2.69E-03	
120	0.03669	16.05	3.1200	1.02E-07	1.00E-03	19.33	18.31231	1.37E-07	2.69E-03	
121	0.03700	16.04	3.1210	1.02E-07	1.00E-03	19.33	18.31499	1.37E-07	2.69E-03	
122	0.03731	16.04	3.1220	1.02E-07	1.00E-03	19.34	18.31769	1.37E-07	2.70E-03	
123	0.03763	16.04	3.1230	1.02E-07	1.00E-03	19.34	18.32038	1.37E-07	2.69E-03	
124	0.03794	16.03	3.1240	1.02E-07	1.00E-03	19.34	18.32308	1.37E-07	2.70E-03	
125	0.03825	16.03	3.1250	1.02E-07	1.00E-03	19.35	18.32579	1.37E-07	2.70E-03	
126	0.03856	16.03	3.1260	1.02E-07	1.00E-03	19.35	18.32848	1.37E-07	2.69E-03	
127	0.03887	16.02	3.1270	1.02E-07	1.00E-03	19.35	18.33118	1.37E-07	2.70E-03	
128	0.03918	16.02	3.1280	1.02E-07	1.00E-03	19.36	18.33389	1.38E-07	2.70E-03	
129	0.03950	16.02	3.1290	1.02E-07	1.00E-03	19.36	18.33659	1.38E-07	2.71E-03	
130	0.03981	16.02	3.1300	1.02E-07	1.00E-03	19.36	18.3393	1.38E-07	2.70E-03	
131	0.04012	16.01	3.1310	1.02E-07	1.00E-03	19.37	18.34201	1.38E-07	2.71E-03	
132	0.04043	16.01	3.1320	1.02E-07	1.00E-03	19.37	18.34472	1.38E-07	2.71E-03	
133	0.04074	16	3.1330	1.02E-07	1.00E-03	19.38	18.34743	1.38E-07	2.71E-03	
134	0.04105	16	3.1340	1.01E-07	1.00E-03	19.38	18.35013	1.38E-07	2.71E-03	
135	0.04137	16	3.1350	1.01E-07	1.00E-03	19.38	18.35286	1.38E-07	2.71E-03	
136	0.04168	15.99	3.1360	1.01E-07	1.00E-03	19.39	18.35558	1.38E-07	2.72E-03	
137	0.04200	15.99	3.1370	1.01E-07	1.00E-03	19.39	18.3583	1.38E-07	2.72E-03	
138	0.04231	15.99	3.1380	1.01E-07	1.00E-03	19.39	18.36102	1.38E-07	2.72E-03	
139	0.04262	15.99	3.1390	1.01E-07	1.00E-03	19.39	18.36374	1.38E-07	2.72E-03	
140	0.04293	15.98	3.1400	1.01E-07	1.00E-03	19.40	18.36646	1.38E-07	2.72E-03	
141	0.04325	15.98	3.1410	1.01E-07	1.00E-03	19.40	18.36919	1.38E-07	2.73E-03	
142	0.04356	15.98	3.1420	1.01E-07	1.00E-03	19.40	18.37191	1.38E-07	2.72E-03	
143	0.04387	15.98	3.1430	1.01E-07	1.00E-03	19.41	18.37464	1.38E-07	2.73E-03	
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145	0.04450	15.97	3.1450	1.01E-07	1.00E-03	19.41	18.3801	1.38E-07	2.73E-03	
146	0.04481	15.97	3.1460	1.01E-07	1.00E-03	19.42	18.38283	1.38E-07	2.73E-03	
147	0.04513	15.96	3.1470	1.01E-07	1.00E-03	19.42	18.38557	1.38E-07	2.74E-03	
148	0.04544	15.96	3.1480	1.01E-07	1.00E-03	19.42	18.3883	1.38E-07	2.73E-03	
149	0.04575	15.96	3.1490	1.01E-07	1.00E-03	19.43	18.39103	1.38E-07	2.74E-03	
150	0.04607	15.96	3.1500	1.01E-07	1.00E-03	19.43	18.39378	1.38E-07	2.74E-03	
151	0.04638	15.95	3.1510	1.01E-07	1.00E-03	19.43	18.39652	1.38E-07	2.74E-03	
152	0.04670	15.95	3.1520	1.01E-07	1.00E-03	19.44	18.39926	1.38E-07	2.74E-03	
153	0.04701	15.95	3.1530	1.01E-07	1.00E-03	19.44	18.402	1.38E-07	2.74E-03	
154	0.04733	15.94	3.1540	1.01E-07	1.00E-03	19.44	18.40473	1.38E-07	2.74E-03	
155	0.04764	15.94	3.1550	1.01E-07	1.00E-03	19.44	18.4075	1.38E-07	2.75E-03	
156	0.04796	15.94	3.1560	1.01E-07	1.00E-03	19.45	18.41024	1.38E-07	2.74E-03	
157	0.04827	15.93	3.1570	1.01E-07	1.00E-03	19.45	18.41298	1.38E-07	2.75E-03	
158	0.04858	15.93	3.1580	1.01E-07	1.00E-03	19.45	18.41574	1.38E-07	2.75E-03	
159	0.04890	15.93	3.1590	1.01E-07	1.00E-03	19.46	18.4185	1.38E-07	2.76E-03	
160	0.04921	15.92	3.1600	1.01E-07	1.00E-03	19.46	18.42125	1.38E-07	2.75E-03	
161	0.04953	15.92	3.1610	1.01E-07	1.00E-03	19.46	18.42401	1.38E-07	2.76E-03	
162	0.04984	15.92	3.1620	1.01E-07	1.00E-03	19.47	18.42676	1.38E-07	2.75E-03	
163	0.05016	15.91	3.1630	1.01E-07	1.00E-03	19.47	18.42952	1.38E-07	2.76E-03	
164	0.05048	15.91	3.1640	1.01E-07	1.00E-03	19.47	18.43228	1.38E-07	2.76E-03	
165	0.05079	15.91	3.1650	1.01E-07	1.00E-03	19.48	18.43505	1.38E-07	2.77E-03	
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168	0.05174	15.9	3.1680	1.01E-07	1.00E-03	19.49	18.44334	1.38E-07	2.76E-03	
169	0.05205	15.9	3.1690	1.00E-07	1.00E-03	19.49	18.44611	1.39E-07	2.77E-03	
170	0.05237	15.89	3.1700	1.00E-07	1.00E-03	19.49	18.44888	1.39E-07	2.77E-03	
171	0.05269	15.89	3.1710	1.00E-07	1.00E-03	19.50	18.45165	1.39E-07	2.77E-03	
172	0.05300	15.89	3.1720	1.00E-07	1.00E-03	19.50	18.45442	1.39E-07	2.77E-03	
173	0.05332	15.88	3.1730	1.00E-07	1.00E-03	19.50	18.4572	1.39E-07	2.77E-03	
174	0.05363	15.88	3.1740	1.00E-07	1.00E-03	19.51	18.45998	1.39E-07	2.78E-03	
175	0.05395	15.88	3.1750	1.00E-07	1.00E-03	19.51	18.46275	1.39E-07	2.77E-03	
176	0.05427	15.88	3.1760	1.00E-07	1.00E-03	19.51	18.46553	1.39E-07	2.78E-03	
177	0.05458	15.87	3.1770	1.00E-07	1.00E-03	19.52	18.46832	1.39E-07	2.78E-03	
178	0.05490	15.87	3.1780	1.00E-07	1.00E-03	19.52	18.4711	1.39E-07	2.78E-03	
179	0.05522	15.87	3.1790	1.00E-07	1.00E-03	19.52	18.47388	1.39E-07	2.78E-03	
180	0.05553	15.86	3.1800	1.00E-07	1.00E-03	19.53	18.47667	1.39E-07	2.79E-03	
181	0.05585	15.86	3.1810	1.00E-07	1.00E-03	19.53	18.47946	1.39E-07	2.79E-03	
182	0.05617	15.86	3.1820	1.00E-07	1.00E-03	19.53	18.48224	1.39E-07	2.78E-03	
183	0.05648	15.85	3.1830	1.00E-07	1.00E-03	19.53	18.48504	1.40E-07	2.80E-03	
184	0.05680	15.85	3.1840	9.98E-08	1.00E-03	19.54	18.48783	1.40E-07	2.79E-03	
185	0.05712	15.85	3.1850	9.96E-08	1.00E-03	19.54	18.49062	1.40E-07	2.79E-03	
186	0.05744	15.84	3.1860	9.95E-08	1.00E-03	19.54	18.49341	1.40E-07	2.79E-03	
187	0.05775	15.84	3.1870	9.93E-08	1.00E-03	19.55	18.49621	1.40E-07	2.80E-03	
188	0.05807	15.84	3.1880	9.9E-08	1.00E-03	19.55	18.49901	1.40E-07	2.80E-03	
189	0.05839	15.84	3.1890	9.88E-08	1.00E-03	19.55	18.50181	1.40E-07	2.80E-03	
190	0.05871	15.83	3.1900	9.87E-08	1.00E-03	19.56	18.50461	1.40E-07	2.80E-03	
191	0.05903	15.83	3.1910	9.85E-08	1.00E-03	19.56	18.50742	1.40E-07	2.81E-03	
192	0.05934	15.83	3.1920	9.83E-08	1.00E-03	19.56	18.51022	1.40E-07	2.80E-03	
193	0.05966	15.82	3.1930	9.82E-08	1.00E-03	19.57	18.51303	1.40E-07	2.81E-03	
194	0.05998	15.82	3.1940	9.8E-08	1.00E-03	19.57	18.51584	1.40E-07	2.81E-03	
195	0.06030	15.82	3.1950	9.78E-08	1.00E-03	19.57	18.51865	1.40E-07	2.81E-03	
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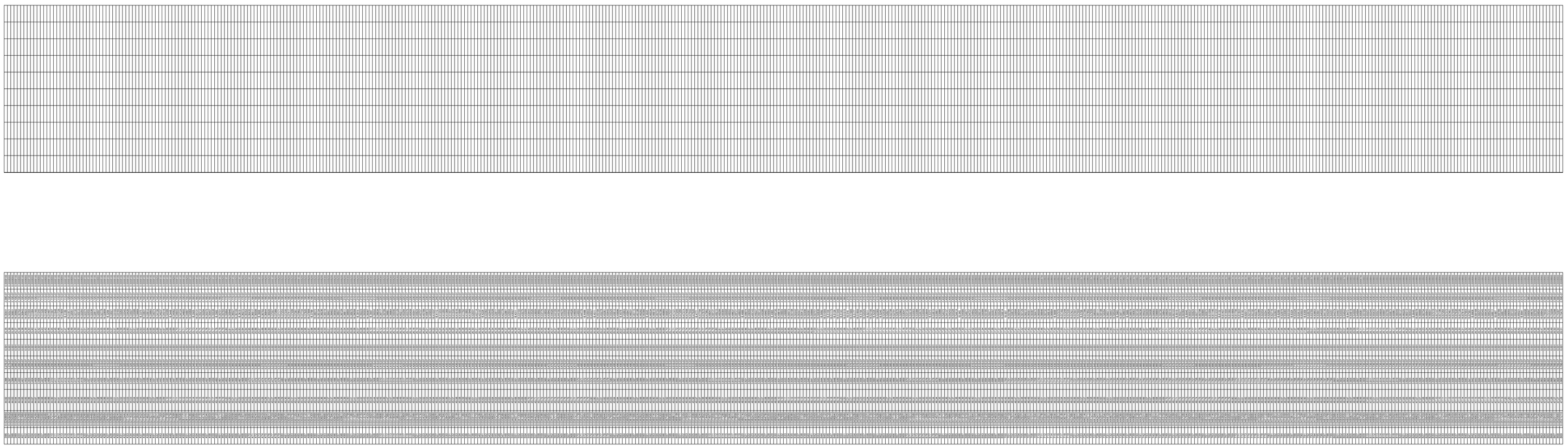

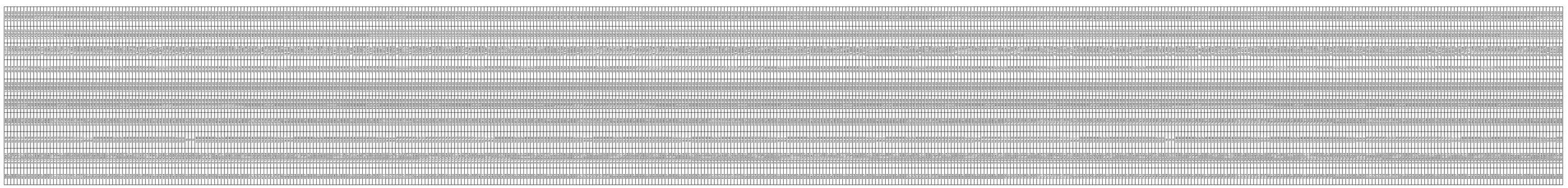

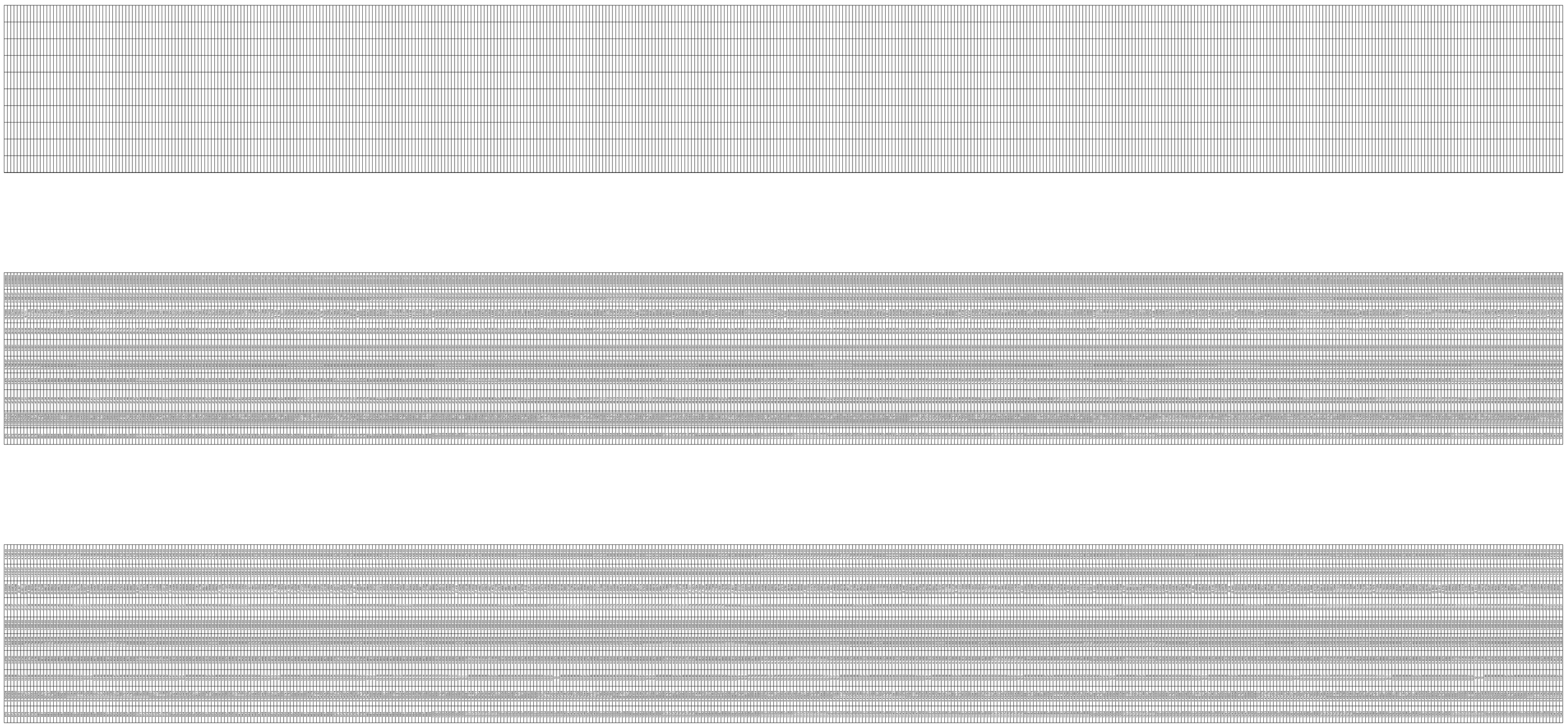

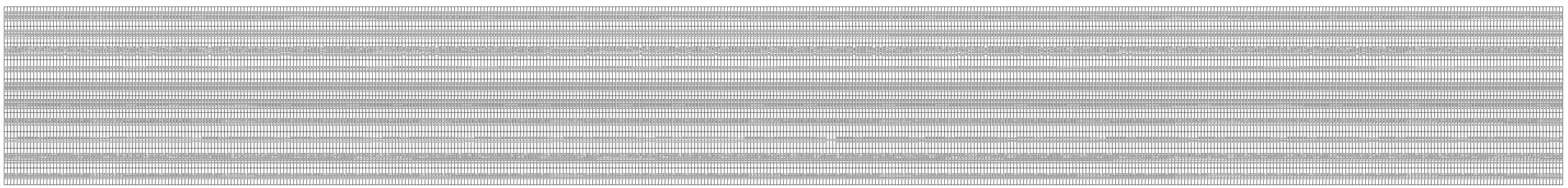

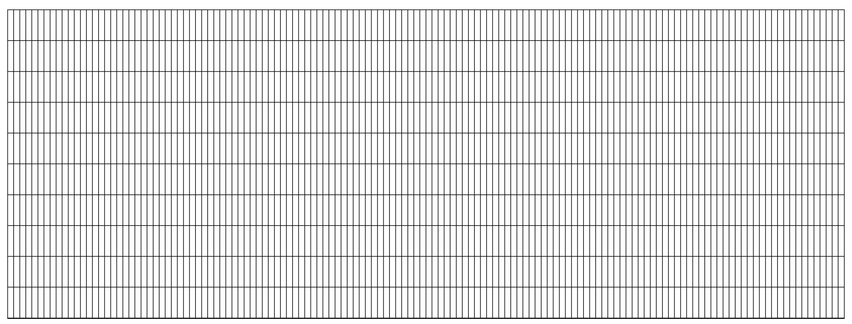

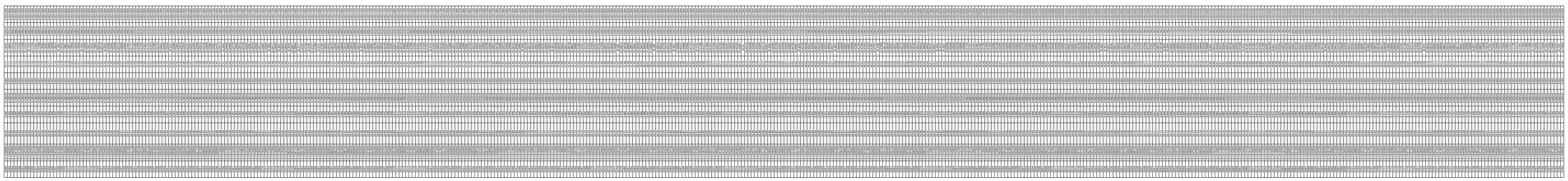

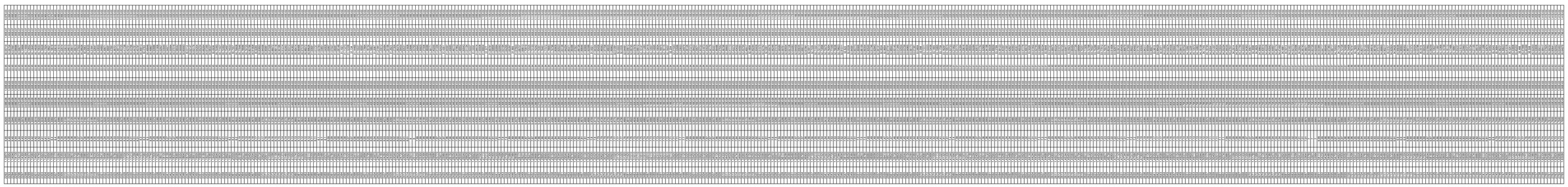

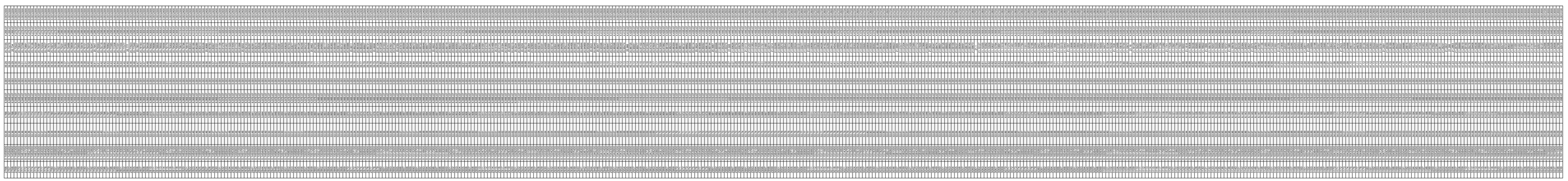

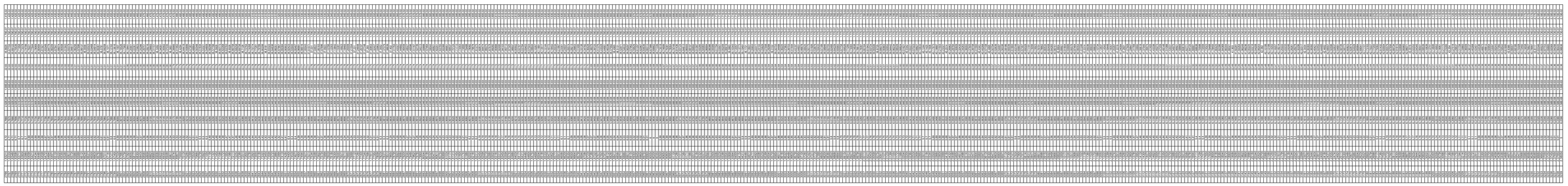

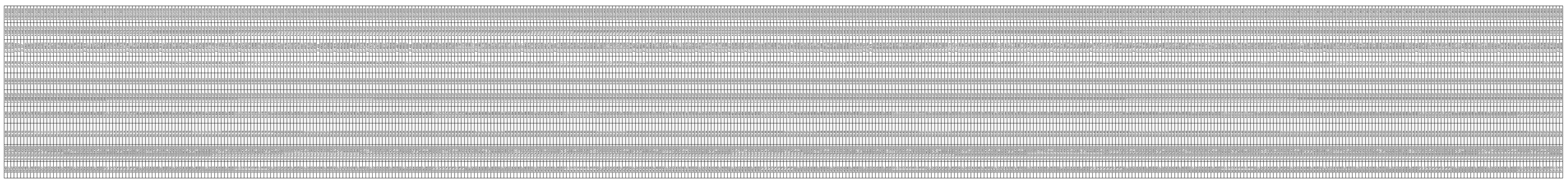

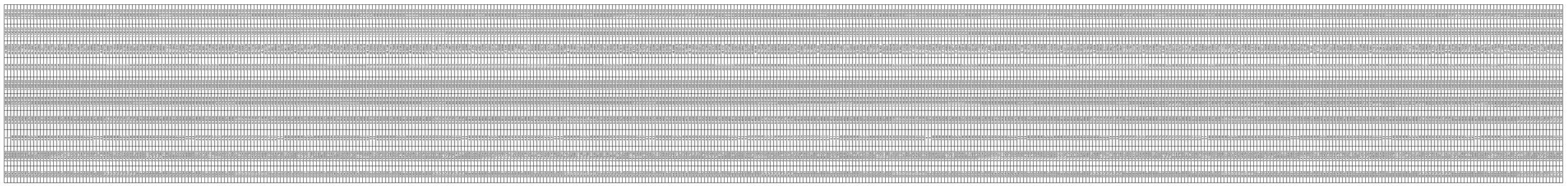

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3716	3.70909	3.3	6.7160	7.80E-03	1.00E-03	21.10	57.95952	1.57E-07	3.89E-02
3717	3.71310	3.29	6.7170	7.79E-03	1.00E-03	21.09	57.99648	1.57E-07	3.90E-02
3718	3.71720	3.29	6.7180	7.78E-03	1.00E-03	21.09	58.03749	1.57E-07	3.90E-02
3719	3.72092	3.29	6.7190	7.78E-03	1.00E-03	21.08	58.07936	1.57E-07	3.91E-02
3720	3.72480	3.28	6.7200	7.77E-03	1.00E-03	21.08	58.11568	1.57E-07	3.91E-02
3721	3.72870	3.28	6.7210	7.76E-03	1.00E-03	21.07	58.15405	1.57E-07	3.92E-02
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3725	3.74460	3.26	6.7250	7.72E-03	1.00E-03	21.05	58.31212	1.57E-07	3.94E-02
3726	3.74860	3.26	6.7260	7.72E-03	1.00E-03	21.05	58.35137	1.57E-07	3.95E-02
3727	3.75260	3.26	6.7270	7.68E-03	1.00E-03	21.04	58.39108	1.57E-07	3.95E-02
3728	3.75660	3.25	6.7280	7.68E-03	1.00E-03	21.04	58.43027	1.57E-07	3.96E-02
3729	3.76060	3.25	6.7290	7.66E-03	1.00E-03	21.03	58.47037	1.57E-07	3.96E-02
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3731	3.76860	3.24	6.7310	7.62E-03	1.00E-03	21.02	58.54968	1.57E-07	3.97E-02
3732	3.77260	3.24	6.7320	7.62E-03	1.00E-03	21.02	58.58947	1.57E-07	3.98E-02
3733	3.77660	3.23	6.7330	7.61E-03	1.00E-03	21.01	58.62931	1.57E-07	3.98E-02
3734	3.78070	3.23	6.7340	7.60E-03	1.00E-03	21.01	58.66921	1.56E-07	3.99E-02
3735	3.78470	3.23	6.7350	7.58E-03	1.00E-03	21.00	58.70917	1.56E-07	3.99E-02
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3738	3.79690	3.22	6.7380	7.55E-03	1.00E-03	20.99	58.82938	1.56E-07	4.01E-02
3739	3.80090	3.21	6.7390	7.54E-03	1.00E-03	20.98	58.86956	1.56E-07	4.02E-02
3740	3.80500	3.21	6.7400	7.53E-03	1.00E-03	20.98	58.90982	1.56E-07	4.02E-02
3741	3.80910	3.21	6.7410	7.52E-03	1.00E-03	20.97	58.95012	1.56E-07	4.03E-02
3742	3.81320	3.2	6.7420	7.51E-03	1.00E-03	20.97	58.99048	1.56E-07	4.04E-02
3743	3.81730	3.2	6.7430	7.50E-03	1.00E-03	20.96	59.0309	1.56E-07	4.04E-02
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3745	3.82550	3.19	6.7450	7.48E-03	1.00E-03	20.95	59.1133	1.56E-07	4.06E-02
3746	3.82960	3.19	6.7460	7.46E-03	1.00E-03	20.95	59.1525	1.56E-07	4.06E-02
3747	3.83380	3.18	6.7470	7.46E-03	1.00E-03	20.94	59.19315	1.56E-07	4.07E-02
3748	3.83790	3.18	6.7480	7.44E-03	1.00E-03	20.94	59.23386	1.56E-07	4.07E-02
3749	3.84200	3.18	6.7490	7.43E-03	1.00E-03	20.93	59.2743	1.56E-07	4.08E-02
3750	3.84620	3.17	6.7500	7.42E-03	1.00E-03	20.93	59.31546	1.56E-07	4.08E-02
3751	3.85030	3.17	6.7510	7.41E-03	1.00E-03	20.92	59.35658	1.56E-07	4.09E-02
3752	3.85450	3.17	6.7520	7.40E-03	1.00E-03	20.92	59.39726	1.56E-07	4.10E-02
3753	3.85870	3.16	6.7530	7.39E-03	1.00E-03	20.91	59.43832	1.55E-07	4.10E-02
3754	3.86290	3.16	6.7540	7.37E-03	1.00E-03	20.91	59.47936	1.55E-07	4.11E-02
3755	3.86710	3.15	6.7550	7.36E-03	1.00E-03	20.90	59.52048	1.55E-07	4.11E-02
3756	3.87130	3.15	6.7560	7.36E-03	1.00E-03	20.90	59.56157	1.55E-07	4.12E-02
3757	3.87560	3.15	6.7570	7.34E-03	1.00E-03	20.89	59.60291	1.55E-07	4.12E-02
3758	3.87980	3.14	6.7580	7.33E-03	1.00E-03	20.89	59.64422	1.55E-07	4.13E-02
3759	3.88390	3.14	6.7590	7.32E-03	1.00E-03	20.88	59.68558	1.55E-07	4.14E-02
3760	3.88810	3.14	6.7600	7.31E-03	1.00E-03	20.88	59.72701	1.55E-07	4.14E-02
3761	3.89240	3.13	6.7610	7.30E-03	1.00E-03	20.87	59.7685	1.55E-07	4.15E-02
3762	3.89660	3.13	6.7620	7.28E-03	1.00E-03	20.87	59.81004	1.55E-07	4.15E-02
3763	3.90090	3.13	6.7630	7.27E-03	1.00E-03	20.86	59.85165	1.55E-07	4.16E-02
3764	3.90510	3.12	6.7640	7.26E-03	1.00E-03	20.86	59.89332	1.55E-07	4.17E-02
3765	3.90940	3.12	6.7650	7.25E-03	1.00E-03	20.85	59.93505	1.55E-07	4.17E-02
3766	3.91370	3.12	6.7660	7.24E-03	1.00E-03	20.85	59.97685	1.55E-07	4.18E-02
3767	3.91790	3.11	6.7670	7.23E-03	1.00E-03	20.84	60.0187	1.55E-07	4.19E-02
3768	3.92220	3.11	6.7680	7.21E-03	1.00E-03	20.84	60.06062	1.54E-07	4.19E-02
3769	3.92650	3.1	6.7690	7.20E-03	1.00E-03	20.83	60.1028	1.54E-07	4.20E-02
3770	3.93080	3.1	6.7700	7.19E-03	1.00E-03	20.83	60.14464	1.54E-07	4.21E-02
3771	3.93520	3.1	6.7710	7.18E-03	1.00E-03	20.82	60.18674	1.54E-07	4.21E-02
3772	3.93950	3.09	6.7720	7.17E-03	1.00E-03	20.82	60.22891	1.54E-07	4.22E-02
3773	3.94380	3.09	6.7730	7.16E-03	1.00E-03	20.81	60.27114	1.54E-07	4.22E-02
3774	3.94820	3.09	6.7740	7.15E-03	1.00E-03	20.81	60.31343	1.54E-07	4.23E-02
3775	3.95250	3.08	6.7750	7.14E-03	1.00E-03	20.80	60.35578	1.54E-07	4.24E-02
3776	3.95680	3.08	6.7760	7.13E-03	1.00E-03	20.80	60.3982	1.54E-07	4.24E-02
3777	3.96120	3.07	6.7770	7.11E-03	1.00E-03	20.79	60.44068	1.54E-07	4.25E-02
3778	3.96560	3.07	6.7780	7.10E-03	1.00E-03	20.79	60.48323	1.54E-07	4.25E-02
3779	3.97000	3.07	6.7790	7.09E-03	1.00E-03	20.78	60.52584	1.54E-07	4.26E-02
3780	3.97440	3.06	6.7800	7.08E-03	1.00E-03	20.78	60.56851	1.54E-07	4.27E-02
3781	3.97880	3.06	6.7810	7.07E-03	1.00E-03	20.77	60.61124	1.54E-07	4.27E-02
3782	3.98330	3.06	6.7820	7.06E-03	1.00E-03	20.77	60.6543	1.54E-07	4.28E-02
3783	3.98780	3.05	6.7830	7.05E-03	1.00E-03	20.76	60.69693	1.54E-07	4.29E-02
3784	3.99220	3.05	6.7840	7.03E-03	1.00E-03	20.76	60.73985	1.54E-07	4.29E-02
3785	3.99640	3.05	6.7850	7.02E-03	1.00E-03	20.75	60.78284	1.54E-07	4.30E-02
3786	4.00090	3.04	6.7860	7.01E-03	1.00E-03	20.75	60.8259	1.54E-07	4.31E-02
3787	4.00530	3.04	6.7870	7.00E-03	1.00E-03	20.74	60.86903	1.53E-07	4.31E-02
3788	4.00980	3.04	6.7880	6.99E-03	1.00E-03	20.74	60.91223	1.53E-07	4.32E-02
3789	4.01430	3.03	6.7890	6.98E-03	1.00E-03	20.73	60.95548	1.53E-07	4.33E-02
3790	4.01870	3.03	6.7900	6.97E-03	1.00E-03	20.73	60.9988	1.53E-07	4.33E-02
3791	4.02320	3.02	6.7910	6.96E-03	1.00E-03	20.72	61.04219	1.53E-07	4.34E-02
3792	4.02770	3.02	6.7920	6.94E-03	1.00E-03	20.71	61.08564	1.53E-07	4.35E-02
3793	4.03220	3.02	6.7930	6.93E-03	1.00E-03	20.71	61.12916	1.53E-07	4.35E-02
3794	4.03670	3.01	6.7940	6.92E-03	1.00E-03	20.70	61.17275	1.53E-07	4.36E-02
3795	4.04120	3.01	6.7950	6.91E-03	1.00E-03	20.70	61.21641	1.53E-07	4.37E-02
3796	4.04580	3.01	6.7960	6.90E-03	1.00E-03	20.69	61.26013	1.53E-07	4.37E-02
3797	4.05030	3	6.7970	6.89E-03	1.00E-03	20.69	61.30392	1.53E-07	4.38E-02
3798	4.05480	3	6.7980	6.87E-03	1.00E-03	20.68	61.34777	1.53E-07	4.39E-02
3799	4.05940	2.99	6.7990	6.86E-03	1.00E-03	20.68	61.3917	1.53E-07	4.39E-02
3800	4.06400	2.99	6.8000	6.85E-03	1.00E-03	20.67	61.43069	1.53E-07	4.40E-02
3801	4.06852	2.99	6.8010	6.84E-03	1.00E-03	20.67	61.47474	1.53E-07	4.40E-02
3802	4.07310	2.98	6.8020	6.83E-03	1.00E-03	20.66	61.51887	1.53E-07	4.41E-02
3803	4.07770	2.98	6.8030	6.82E-03	1.00E-03	20.66	61.56307	1.53E-07	4.42E-02
3804	4.08230	2.98	6.8040	6.81E-03	1.00E-03	20.65	61.60732	1.53E-07	4.42E-02
3805	4.08690	2.97	6.8050	6.80E-03	1.00E-03	20.65	61.65165	1.53E-07	4.43E-02
3806	4.09150	2.97	6.8060	6.78E-03	1.00E-03	20.64	61.70106	1.52E-07	4.44E-02
3807	4.09610	2.97	6.8070	6.77E-03	1.00E-03	20.64	61.74553	1.52E-07	4.44E-02
3808	4.10080	2.96	6.8080	6.76E-03	1.00E-03	20.63	61.79007	1.52E-07	4.45E-02
3809	4.10540	2.96	6.8090	6.75E-03	1.00E-03	20.63	61.83468	1.52E-07	4.46E-02
3810	4.11010	2.95	6.8100	6.74E-03	1.00E-03	20.62	61.87936	1.52E-07	4.47E-02
3811	4.11470	2.95	6.8110	6.73E-03	1.00E-03	20.62	61.92411	1.52E-07	4.47E-02
3812	4.11940	2.95	6.8120	6.71E-03	1.00E-03	20.61	61.96892	1.52E-07	4.48E-02
3813	4.12410	2.94	6.8130	6.70E-03	1.00E-03	20.61	62.01381	1.52E-07	4.49E-02
3814	4.12880	2.94	6.8140	6.69E-03	1.00E-03	20.60	62.05877	1.52E-07	4.49E-02
3815	4.13350	2.94	6.8150	6.68E-03	1.00E-03	20.59	62.1038	1.52E-07	4.50E-02
3816	4.13820	2.93	6.8160	6.67E-03	1.00E-03	20.59	62.1489	1.52E-07	4.51E-02
3817	4.14290	2.93	6.8170	6.66E-03	1.00E-03	20.58	62.19407	1.52E-07	4.52E-02
3818	4.14760	2.93	6.8180	6.65E-03	1.00E-03	20.58	62.23931	1.52E-07	4.52E-02
3819	4.15230	2.92	6.8190	6.64E-03	1.00E-03	20.57	62.28462	1.52E-07	4.53E-02
3820	4.15710	2.92	6.8200	6.62E-03	1.00E-03	20.57	62.33001	1.52E-07	4.54E-02
3821	4.16180	2.91	6.8210	6.61E-03	1.00E-03	20.56	62.37547	1.52E-07	4.55E-02
3822	4.16660	2.91	6.8220	6.60E-03	1.00E-03	20.56	62.421	1.51E-07	4.55E-02
3823	4.17140	2.91	6.8230	6.59E-03	1.00E-03	20.55	62.4668	1.51E-07	4.56E-02
3824	4.17620	2.9	6.8240	6.57E-03	1.00E-03	20.55	62.51227	1.51E-07	4.57E-02
3825	4.18100	2.9	6.8250	6.56E-03	1.00E-03	20.54	62.55791	1.51E-07	4.57E-02
3826	4.18580	2.9	6.8260	6.55E-03	1.00E-03	20.54	62.60362	1.51E-07	4.58E-02
3827	4.19060	2.89	6.8270	6.54E-03	1.00E-03	20.53	62.64979	1.51E-07	4.59E-02
3828	4.19540	2.89	6.8280	6.53E-03	1.00E-03	20.53	62.6957	1.51E-07	4.59E-02
3829	4.20020	2.89	6.8290	6.52E-03	1.00E-03	20.52	62.74173	1.51E-07	4.60E-02
3830	4.20510	2.88	6.8300	6.50E-03	1.00E-03	20.52	62.78783	1.51E-07	4.61E-02
3831	4.20990	2.88	6.8310	6.49E-03	1.00E-03	20.51	62.83402	1.51E-07	4.62E-02
3832	4.21480	2.87	6.8320	6.48E-03	1.00E-03	20.51	62.8803	1.51E-07	4.62E-02
3833	4.21960	2.87	6.8330	6.47E-03	1.00E-03	20.50	62.92663	1.51E-07	4.63E-02
3834	4.22450	2.87	6.8340	6.46E-03	1.00E-03	20.50	62.97303	1.51E-07	4.64E-02
3835	4.22940	2.86	6.8350	6.45E-03	1.00E-03	20.49	63.01953	1.51E-07	4.65E-02
3836	4.23430	2.86	6.8360	6.44E-03	1.00E-03	20.48	63.06609	1.51E-07	4.66E-02
3837	4.23920	2.86	6.8370	6.43E-03	1.00E-03	20.48	63.11272	1.50E-07	4.66E-02
3838	4.24410	2.85	6.8380	6.41E-03	1.00E-03	20.47	63.15943	1.50E-07	4.67E-02
3839	4.24910	2.85	6.8390	6.40E-03	1.00E-03	20.47	63.20622	1.50E-07	4.68E-02
3840	4.25400	2.85	6.8400	6.39E-03	1.00E-03	20.46	63.25308	1.50E-07	4.69E-02
3841	4.25900	2.84	6.8410	6.38E-03	1.00E-03	20.46	63.30002	1.50E-07	4.69E-02
3842	4.26390	2.84	6.8420	6.37E-03	1.00E-03	20.45	63.34703	1.50E-07	4.70E-02
3843	4.26890	2.83	6.8430	6.35E-03	1.00E-03	20.45	63.39412	1.50E-07	4.71E-02
3844	4.27390	2.83	6.8440	6.34E-03	1.00E-03	20.44	63.44129	1.50E-07	4.72E-02
3845	4.27890	2.83	6.8450	6.33E-03	1.00E-03	20.44	63.48854	1.50E-07	4.72E-02
3846	4.28390	2.82	6.8460	6.32E-03	1.00E-03	20.43	63.53587	1.50E-07	4.73E-02
3847	4.28890	2.82	6.8470	6.31E-03	1.00E-03	20.42	63.58326	1.50E-07	4.74E-02
3848	4.29400	2.82	6.8480	6.30E-03	1.00E-03	20.42	63.63073	1.50E-07	4.75E-02
3849	4.29900	2.81	6.8490	6.28E-03	1.00E-03	20.41	63.67826	1.50E-07	4.75E-02
3850	4.30400	2.81	6.8500	6.27E-03	1.00E-03	20.41	63.72583	1.50E-07	4.76E-02
3851	4.30900	2.81	6.8510	6.26E-03	1.00E-03	20.40	63.77344	1.50E-07	4.77E-02
3852	4.31410	2.8	6.8520	6.25E-03	1.00E-03	20.40	63.82143	1.50E-07	4.78E-02
3853	4.31920	2.8	6.8530	6.24E-03	1.00E-03	20.39	63.86903	1.50E-07	4.78E-02
3854	4.32430	2.79	6.8540	6.23E-03	1.00E-03	20.39	63.91725	1.49E-07	4.80E-02
3855	4.32940	2.79	6.8550	6.22E-03	1.00E-03	20.38	63.96553	1.49E-07	4.80E-02
3856	4.33450	2.78	6.8560	6.20E-03	1.00E-03	20.38	64.01338	1.49E-07	4.81E-02
3857	4.33960	2.78	6.8570	6.19E-03	1.00E-03	20.37	64.06188	1.49E-07	4.82E-02
3858	4.34470	2.78	6.8580	6.18E-03	1.00E-03	20.36	64.10964	1.49E-07	4.83E-02
3859	4.34980	2.78	6.8590	6.17E-03	1.00E-03	20.36	64.15819	1.49E-07	4.83E-02
3860	4.35500	2.77	6.8600	6.16E-03	1.00E-03	20.35	64.20662	1.49E-07	4.84E-02
3861	4.36010	2.77	6.8610	6.14E-03	1.00E-03	20.35	64.25513	1.49E-07	4.85E-02
3862	4.36530	2.77	6.8620	6.13E-03	1.00E-03	20.34	64.30372	1.49E-07	4.86E-02
3863	4.37040	2.76	6.8630	6.12E-03	1.00E-03	20.33	64.3524	1.49E-07	4.87E-02
3864	4.37560	2.76	6.8640	6.11E-03	1.00E-03	20.33	64.40115	1.49E-07	4.87E-02
3865	4.38080	2.75	6.8650	6.10E-03	1.00E-03	20.32	64.44993	1.49E-07	4.88E-02
3866	4.38610	2.75	6.8660	6.09E-03	1.00E-03	20.32	64.4989	1.49E-07	4.89E-02
3867	4.39130	2.75	6.8670	6.07E-03	1.00E-03	20.31	64.5473	1.49E-07	4.90E-02
3868	4.39660	2.74	6.8680	6.06E-03	1.00E-03	20.31	64.59699	1.49E-07	4.91E-02
3869	4.40180	2.74	6.8690	6.05E-03	1.00E-03	20.30	64.64615	1.49E-07	4.92E-02
3870	4.40710	2.74	6.8700	6.04E-03	1.00E-03	20.30	64.6954	1.48E-07	4.93E-02
3871	4.41240	2.73	6.8710	6.03E-03	1.00E-03	20.29	64.74472	1.48E-07	4.93E-02
3872	4.41770	2.73	6.8720	6.01E-03	1.00E-03	20.29	64.79413	1.48E-07	4.94E-02
3873	4.42290	2.73	6.8730	6.00E-03	1.00E-03	20.28	64.84365	1.48E-07	4.95E-02
3874	4.42820	2.72	6.8740	5.99E-03	1.00E-03	20.28	64.89323	1.48E-07	4.96E-02
3875	4.43350	2.72	6.8750	5.98E-03	1.00E-03	20.27	64.9429	1.48E-07	4.97E-02
3876	4.43880	2.71	6.8760	5.97E-03	1.00E-03	20.27	64.99265	1.48E-07	4.97E-02
3877	4.44420	2.71	6.8770	5.96E-03	1.00E-03	20.26	65.04249	1.48E-07	4.98E-02
3878	4.44950	2.71	6.8780	5.95E-03	1.00E-03	20.26	65.09241	1.48E-07	4.99E-02
3879	4.45490	2.7	6.8790	5.93E-03	1.00E-03	20.25	65.14242	1.48E-07	5.00E-02
3880	4.46020	2.7	6.8800	5.92E-03	1.00E-03	20.24	65.19252	1.48E-07	5.01E-02
3881	4.46570	2.7	6.8810	5.91E-03	1.00E-03	20.24	65.24271	1.48E-07	5.02E-02
3882	4.47110	2.69	6.8820	5.90E-03	1.00E-03	20.23	65.29298	1.48E-07	5.03E-02
3883	4.47650	2.69	6.8830	5.89E-03	1.00E-03	20.23	65.34332	1.47E-07	5.03E-02
3884	4.48190	2.69	6.8840	5.87E-03	1.00E-03	20.22	65.39376	1.48E-07	5.04E-02
3885	4.48730	2.68	6.8850	5.86E-03	1.00E-03	20.22	65.44428	1.47E-07	5.05E-02
3886	4.49270	2.68	6.8860	5.85E-03	1.00E-03	20.21	65.4949	1.47E-07	5.06E-02
3887	4.49820	2.67	6.8870	5.84E-03	1.00E-03	20.20	65.5456	1.47E-07	5.07E-02
3888	4.50370	2.67	6.8880	5.83E-03	1.00E-03	20.20	65.59639	1.47E-07	5.08E-02
3889	4.50910	2.67	6.8890	5.81E-03	1.00E-03	20.19	65.64726	1.47E-07	5.09E-02
3890	4.51460	2.66	6.8900	5.80E-03	1.00E-03	20.19	65.69823	1.47E-07	5.10E-02
3891	4.52010	2.66	6.8910	5.79E-03	1.00E-03	20.18	65.74929	1.47E-07	5.11E-02
3892	4.52560	2.65	6.8920	5.78E-03	1.00E-03	20.18	65.80043	1.47E-07	5.12E-02
3893	4.53120	2.65	6.8930	5.77E-03	1.00E-03	20.17	65.85166	1.47E-07	5.13E-02
3894	4.53670	2.65	6.8940	5.76E-03	1.00E-03	20.17	65.90298	1.47E-07	5.13E-02
3895	4.54230	2.64	6.8950	5.74E-03	1.00E-03	20.16	65.9544	1.47E-07	5.14E-02
3896	4.54780	2.64	6.8960	5.73E-03	1.00E-03	20.15	66.0059	1.47E-07	5.15E-02
3897	4.55340	2.64	6.8970	5.72E-03	1.00E-03	20.15	66.05749	1.47E-07	5.16E-02
3898	4.55900	2.63	6.8980	5.71E-03	1.00E-03	20.14	66.10917	1.47E-07	5.17E-02
3899	4.56460	2.63	6.8990	5.70E-03	1.00E-03	20.14	66.16095	1.47E-07	5.18E-02
3900	4.57020	2.63	6.9000	5.68E-03	1.00E-03	20.13	66.21281	1.47E-07	5.19E-02
3901	4.57590	2.62	6.9010	5.67E-03	1.00E-03	20.13	66.26476	1.46E-07	5.20E-02
3902	4.58150	2.62	6.9020	5.66E-03	1.00E-03	20.12	66.31682	1.46E-07	5.21E-02
3903	4.58710	2.62	6.9030	5.65E-03	1.00E-03	20.11	66.36898	1.46E-07	5.21E-02
3904	4.59280	2.61	6.9040	5.64E-03	1.00E-03	20.11	66.42123	1.46E-07	5.22E-02
3905	4.59840	2.61	6.9050	5.63E-03	1.00E-03	20.10	66.47352	1.46E-07	5.23E-02
3906	4.60410	2.61	6.9060	5.61E-03	1.00E-03	20.10	66.52594	1.46E-07	5.24E-02
3907	4.60980	2.6	6.9070	5.60E-03	1.00E-03	20.09	66.57845	1.46E-07	5.25E-02
3908	4.61550	2.6	6.9080	5.59E-03	1.00E-03	20.09	66.63105	1.46E-07	5.26E-02
3909	4.62130	2.59	6.9090	5.58E-03	1.00E-03	20.08	66.68376	1.46E-07	5.27E-02
3910	4.62700	2.59	6.9100	5.57E-03	1.00E-03	20.07	66.73655	1.46E-07	5.28E-02
3911	4.63280	2.59	6.9110	5.55E-03	1.00E-03	20.07	66.78944	1.46E-07	5.29E-02
3912	4.63850	2.58	6.9120	5.54E-03	1.00E-03	20.06	66.84243	1.46E-07	5.30E-02
3913	4.64430	2.58	6.9130	5.53E-03	1.00E-03	20.06	66.89551	1.46E-07	5.31E-02
3914	4.65010	2.58	6.9140	5.52E-03	1.00E-03	20.05	66.94868	1.46E-07	5.32E-02
3915	4.65600	2.57	6.9150	5.51E-03	1.00E-03	20.05	67.00195	1.46E-07	5.33E-02
3916	4.66170	2.57	6.9160	5.50E-03	1.00E-03	20.04	67.05532	1.46E-07	5.34E-02
3917	4.66760	2.57	6.9170	5.48E-03	1.00E-03	20.03	67.10879	1.45E-07	5.35E-02
3918	4.67350	2.56	6.9180	5.47E-03	1.00E-03	20.03	67.16234	1.45E-07	5.36E-02
3919	4.67930	2.56	6.9190	5.46E-03	1.00E-03	20.02	67.21599	1.45E-07	5.37E-02
3920	4.68510	2.55	6.9200	5.45E-03	1.00E-03	20.02	67.26973	1.45E-07	5.38E-02
3921	4.69100	2.55	6.9210	5.44E-03	1.00E-03	20.01	67.3236	1.45E-07	5.39E-02
3922	4.69690	2.55	6.9220	5.43E-03	1.00E-03	20.01	67.3776	1.45E-07	5.40E-02
3923	4.70280	2.54	6.9230	5.42E-03	1.00E-03	20.00	67.43168	1.45E-07	5.41E-02
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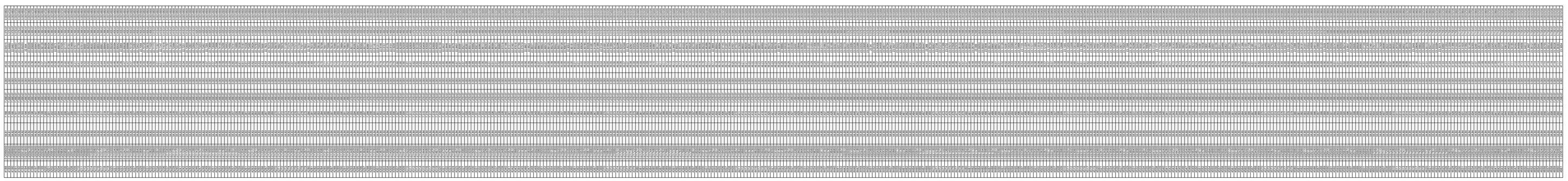
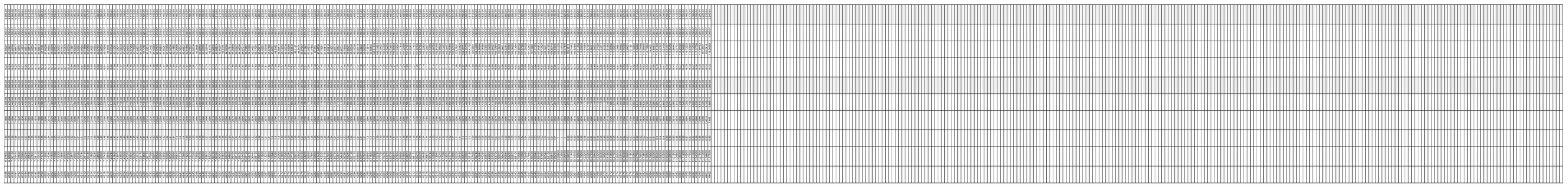
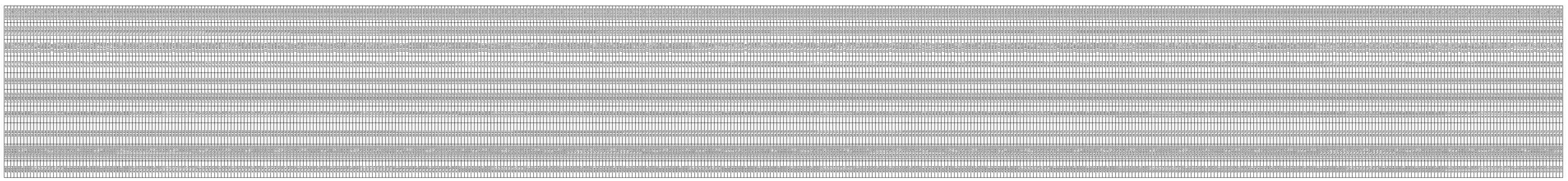
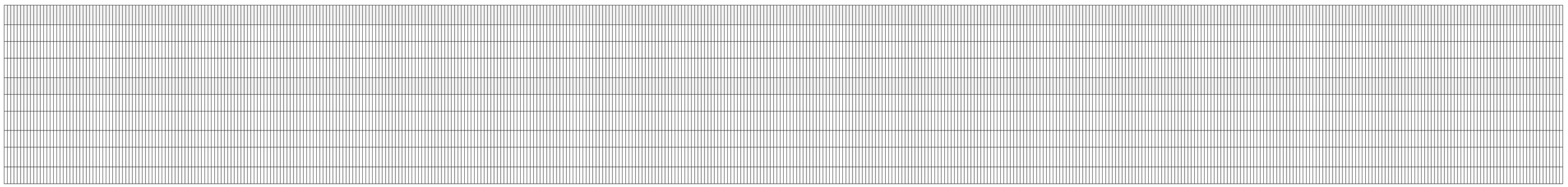
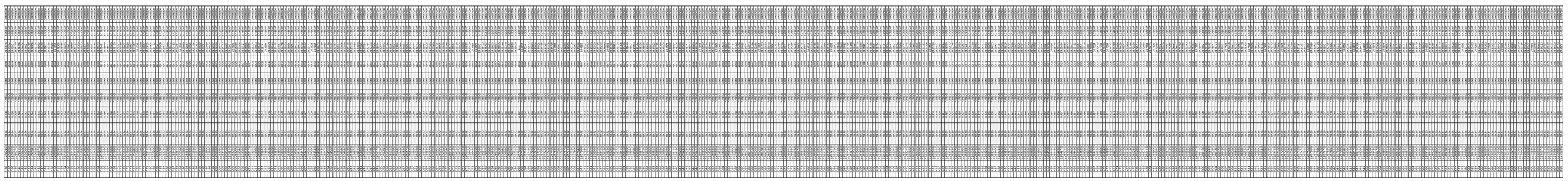
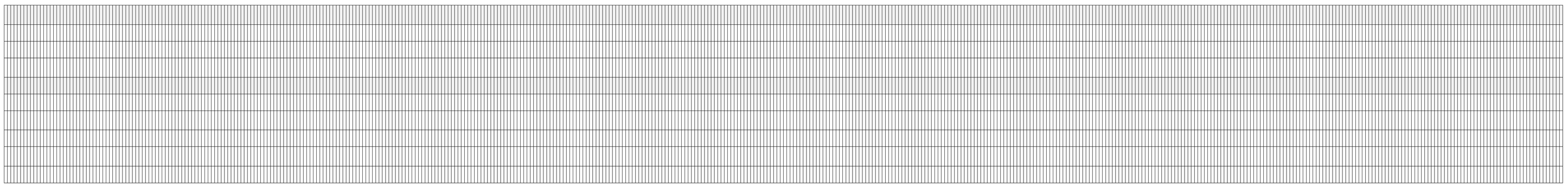


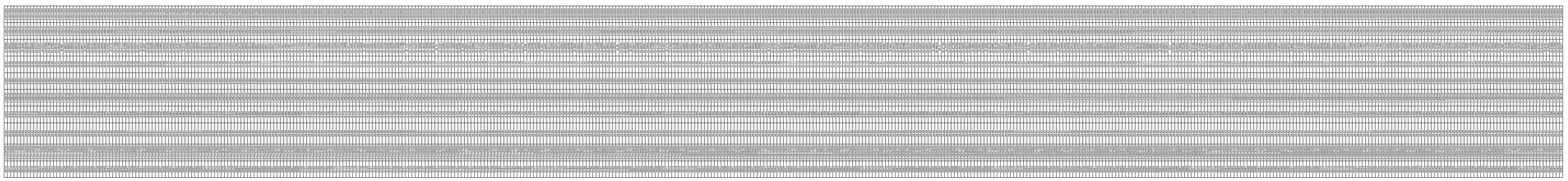


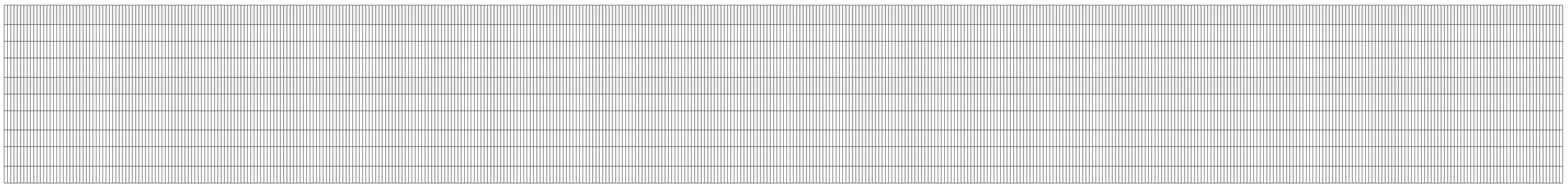


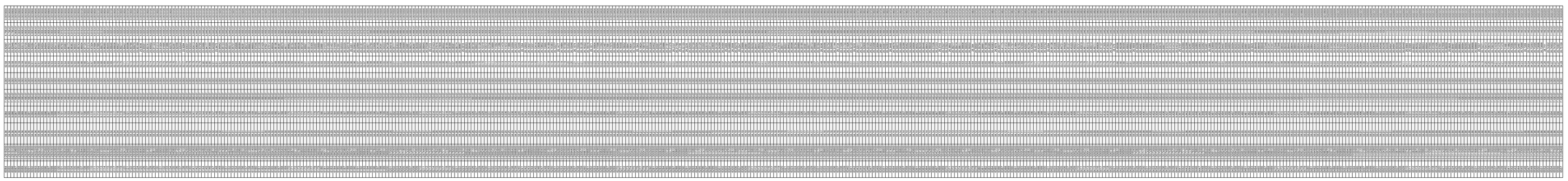


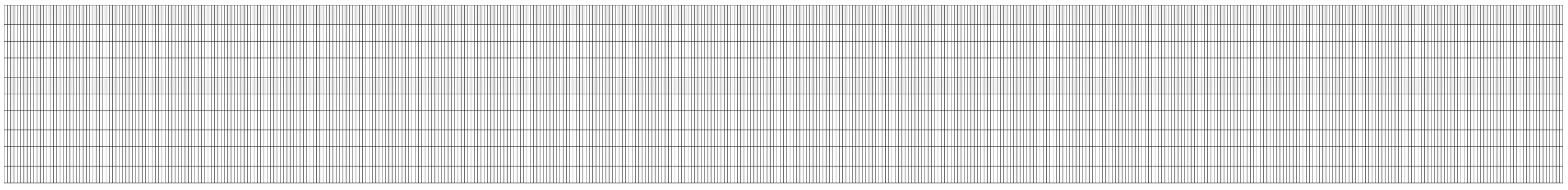


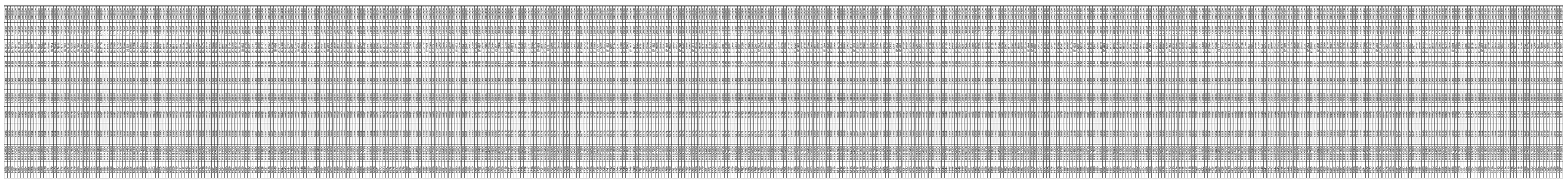


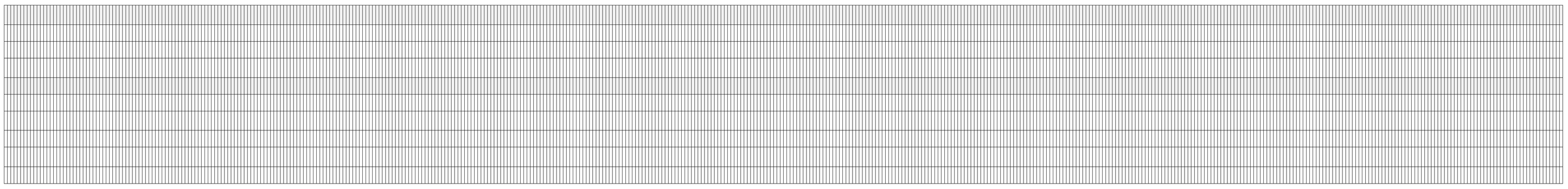


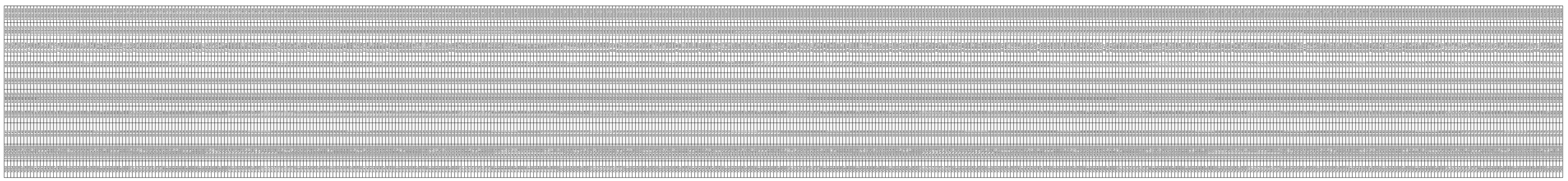


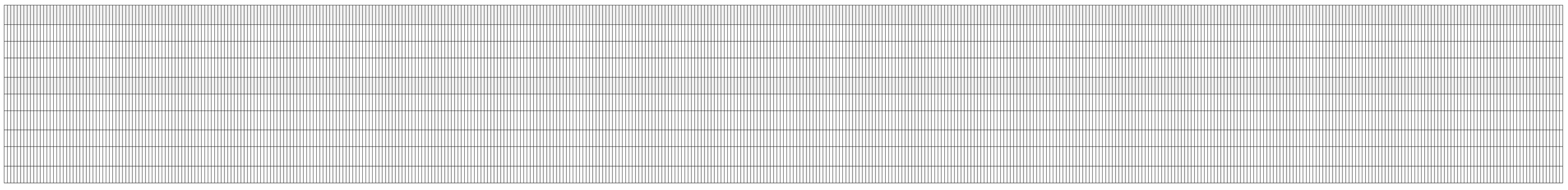


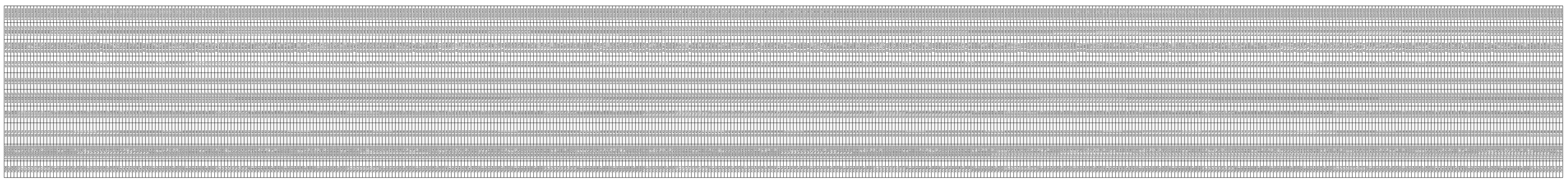


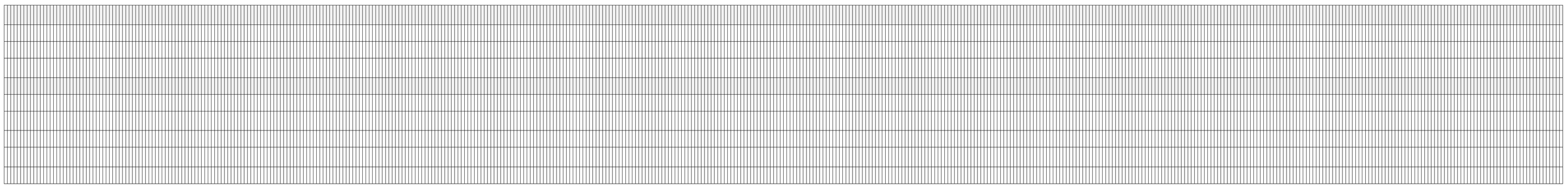


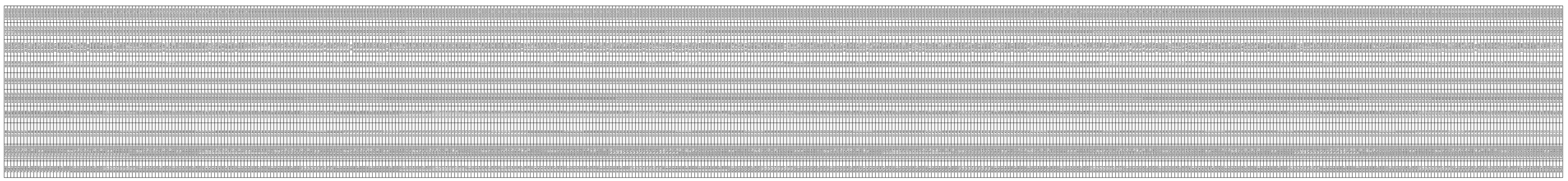


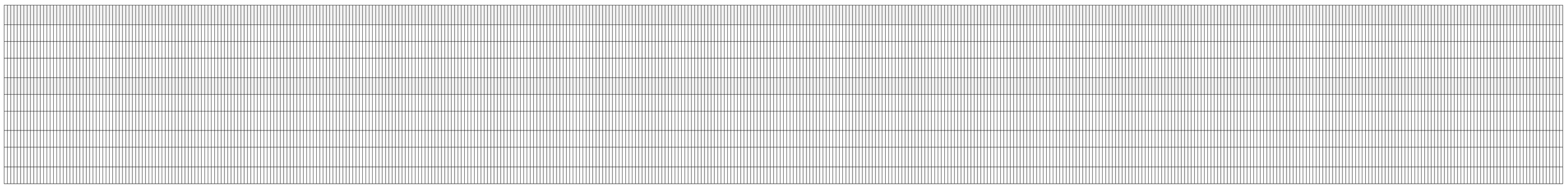


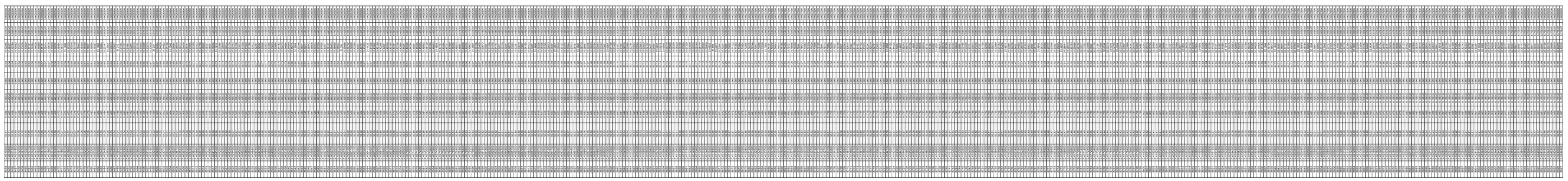


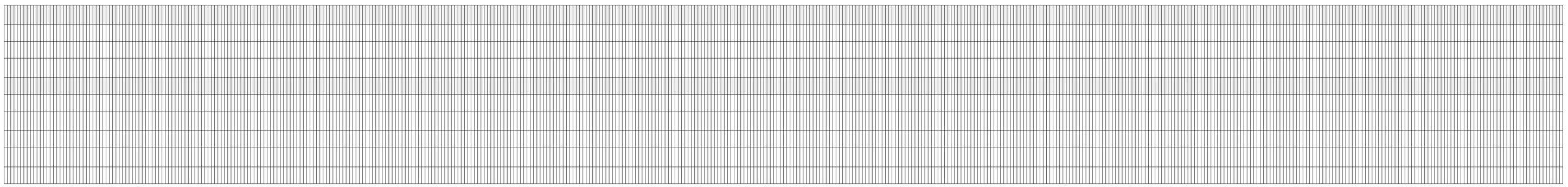


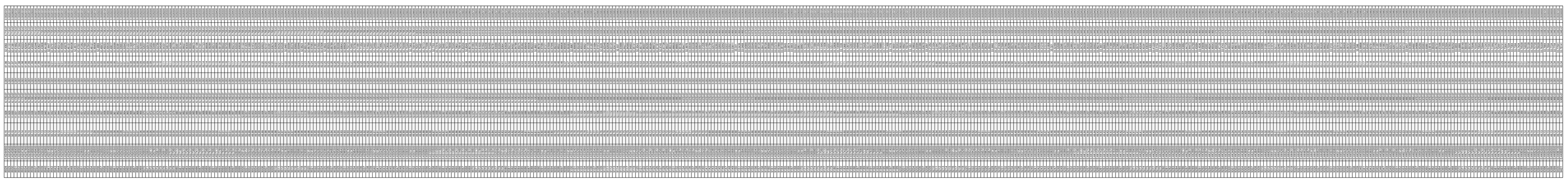


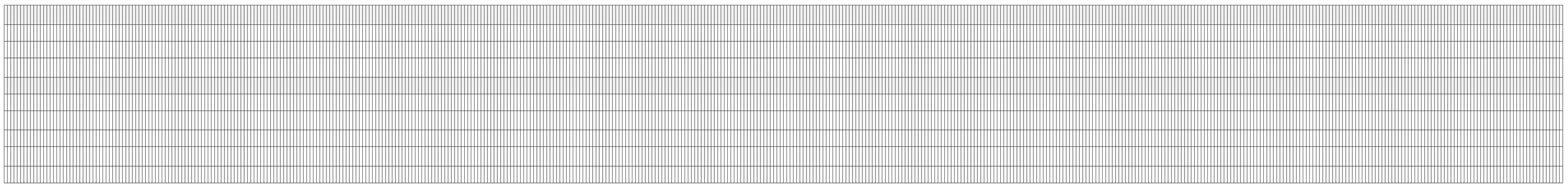


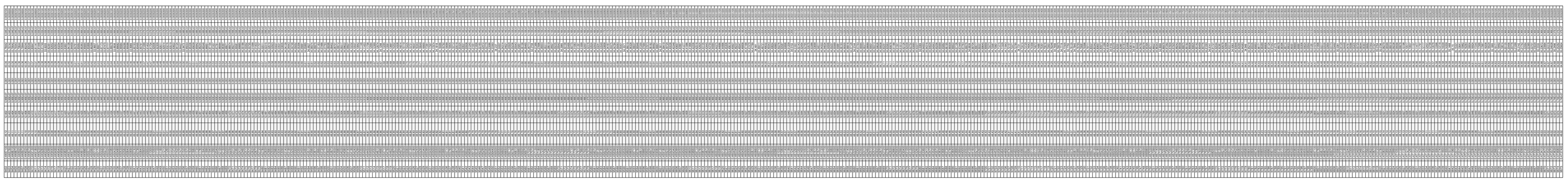


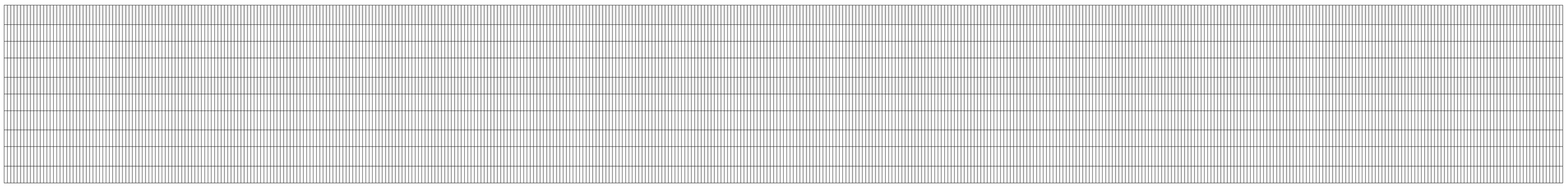


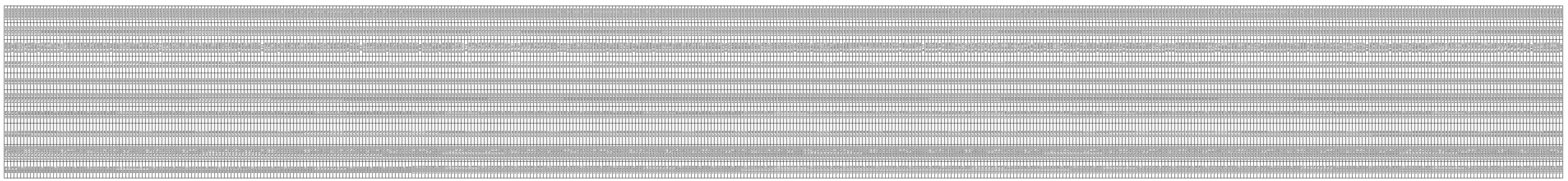


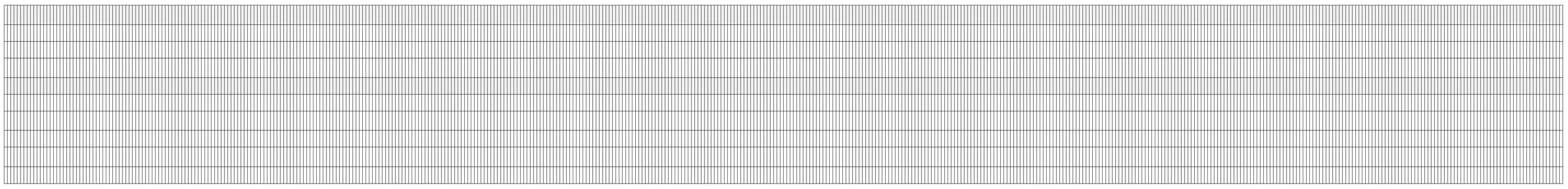


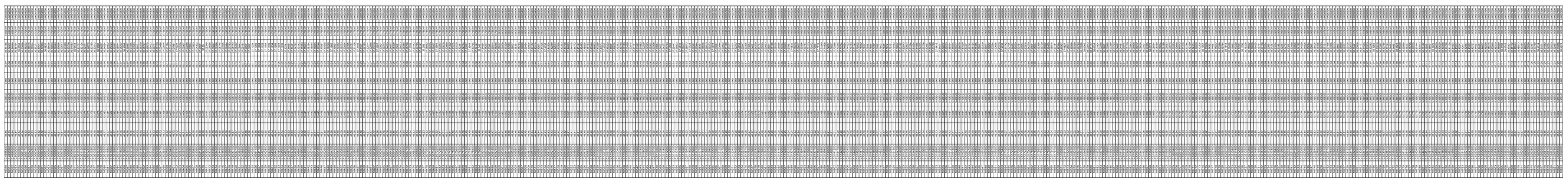


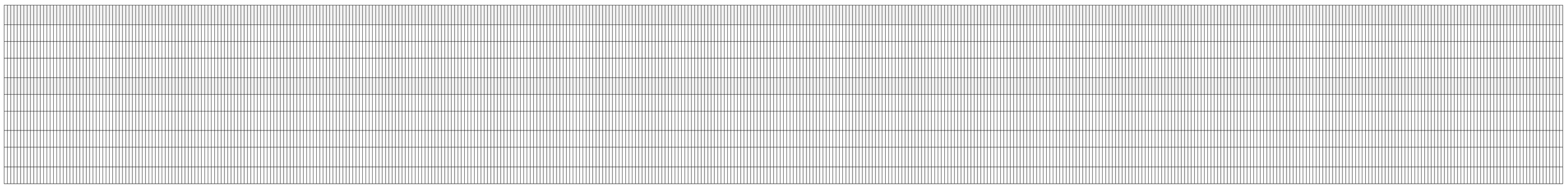


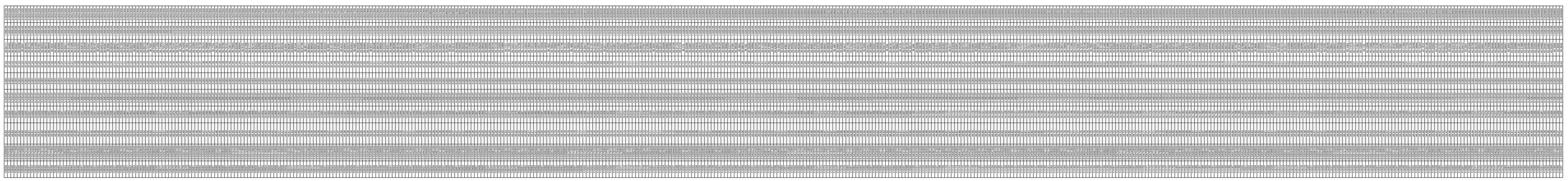


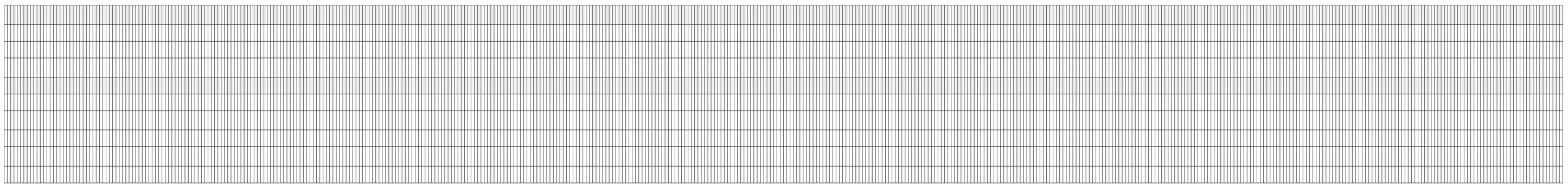


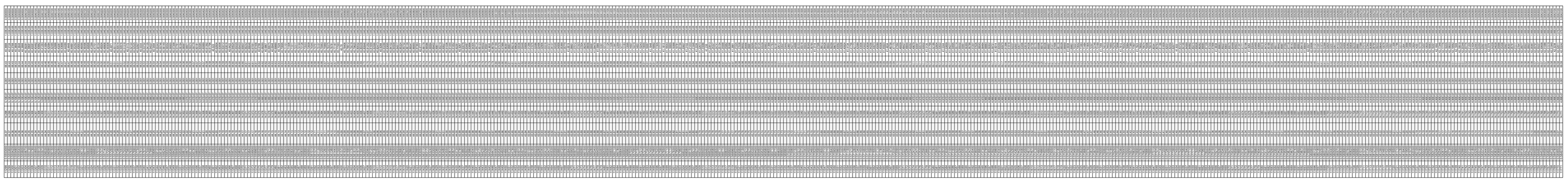


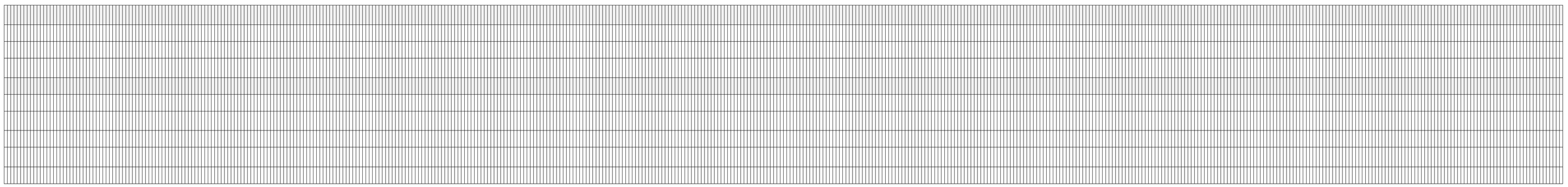


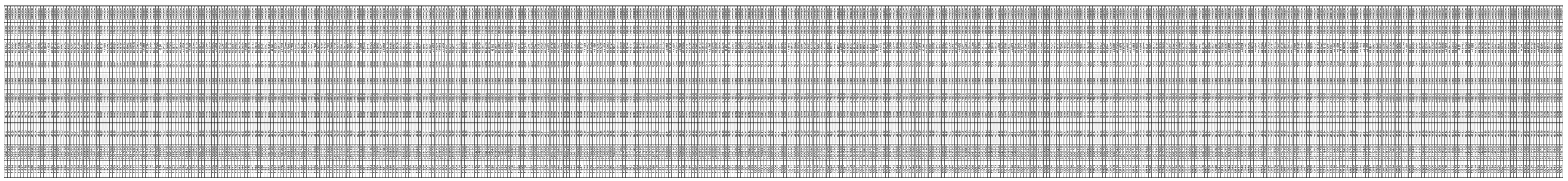


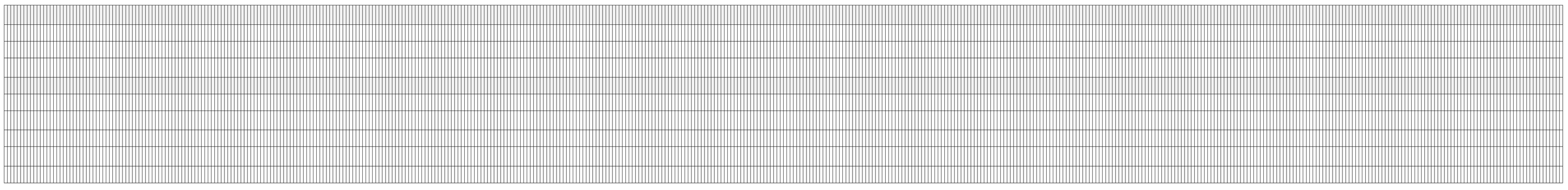


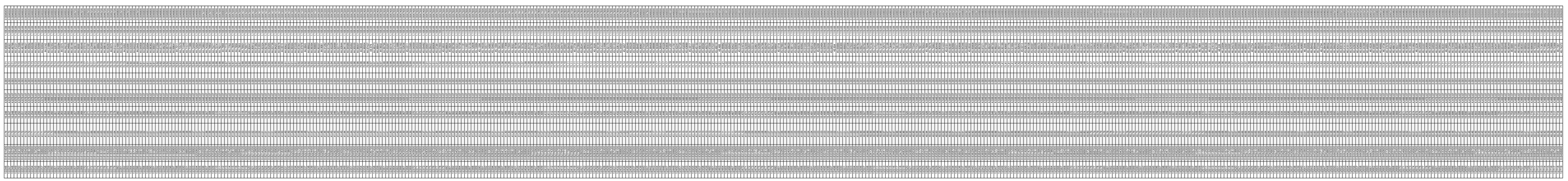


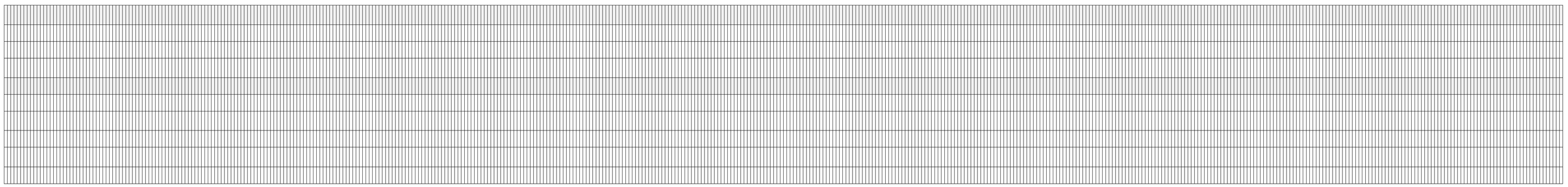


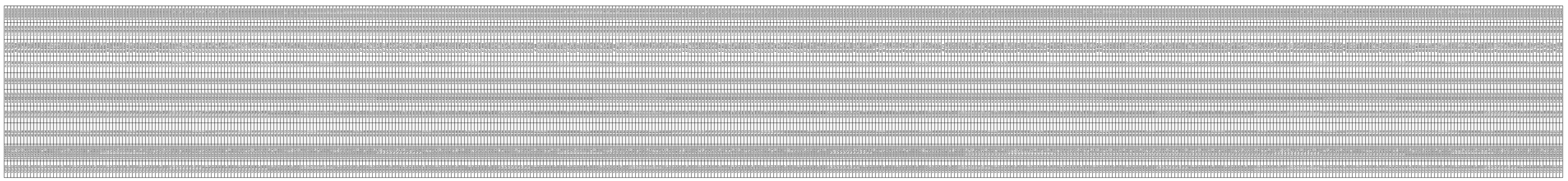


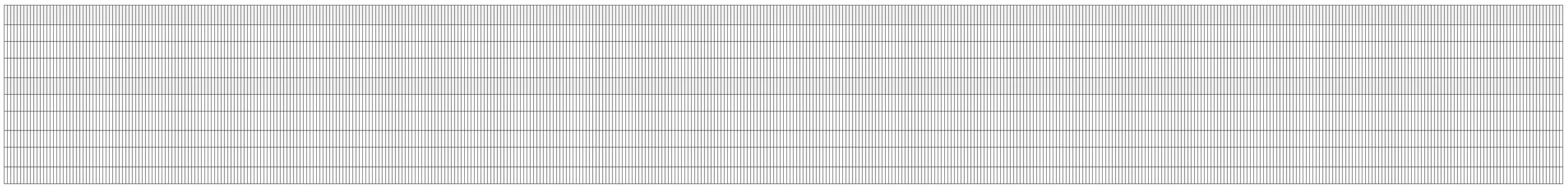


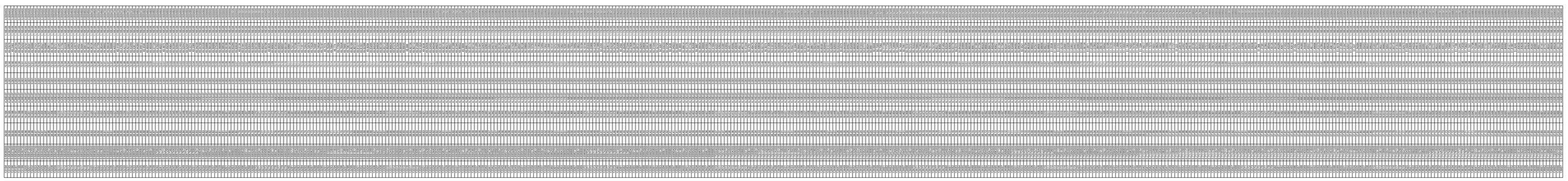


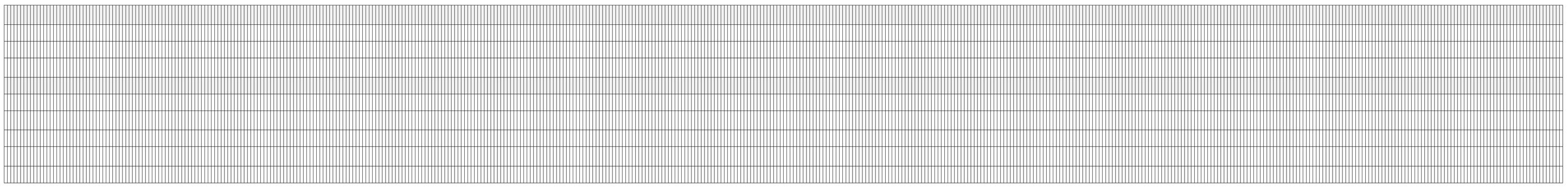


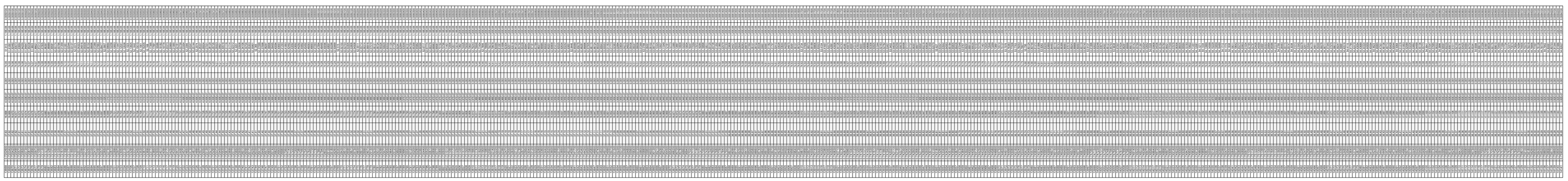


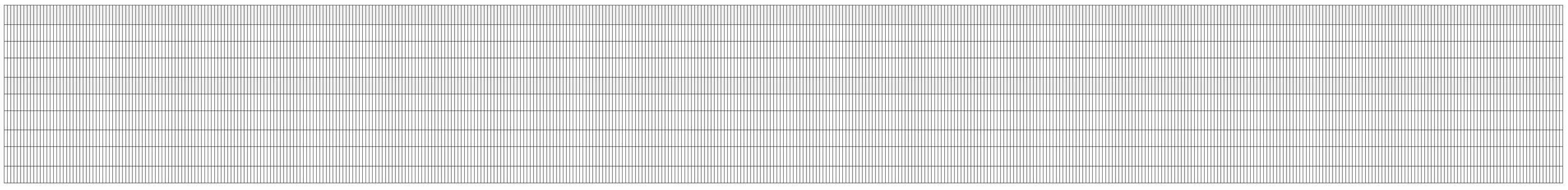


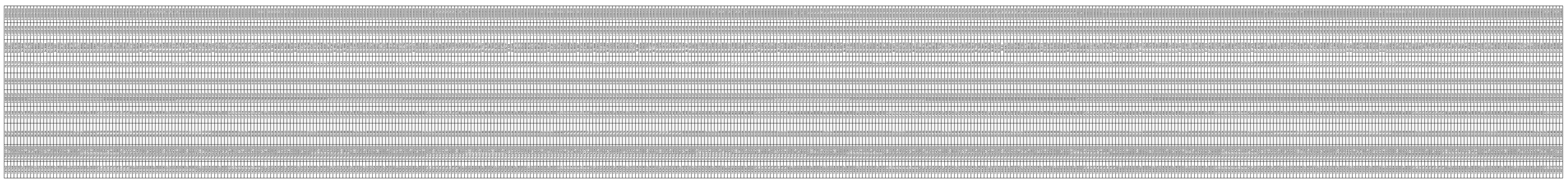


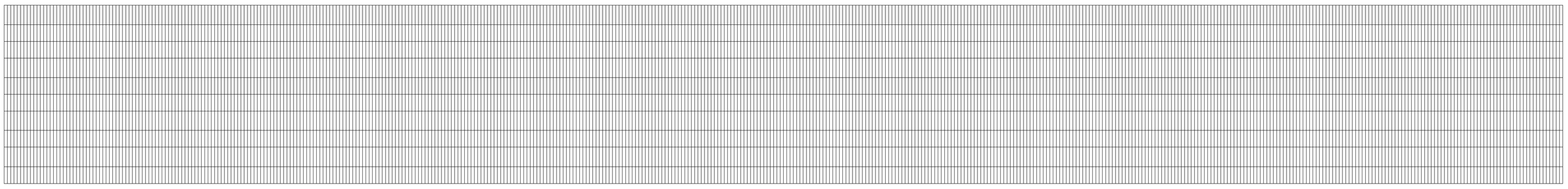


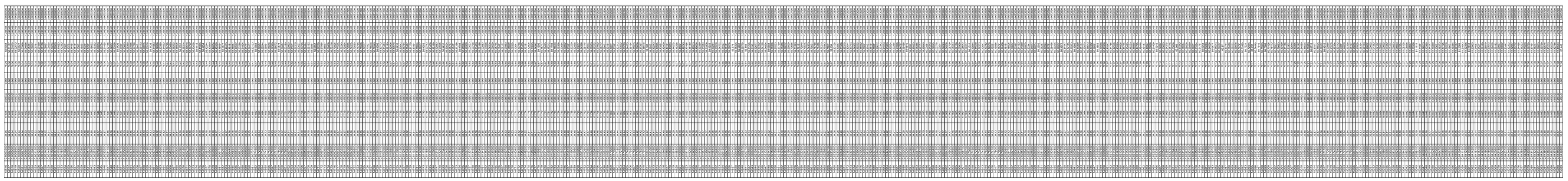


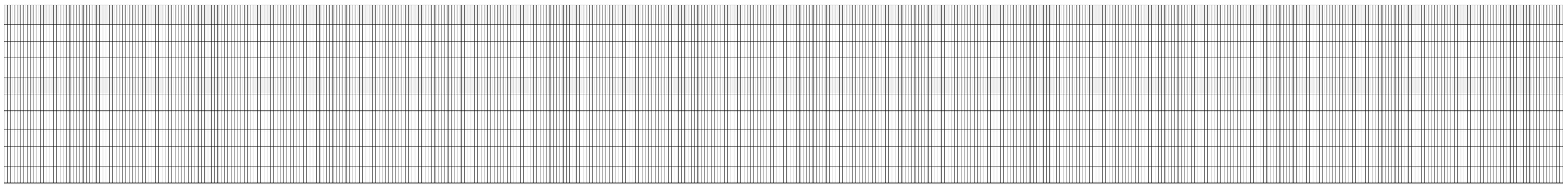


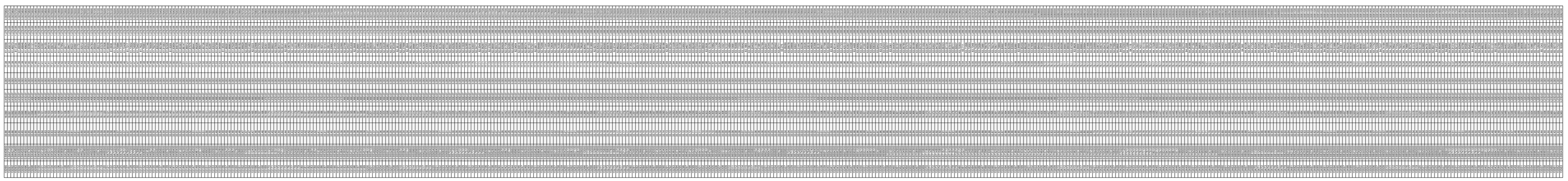


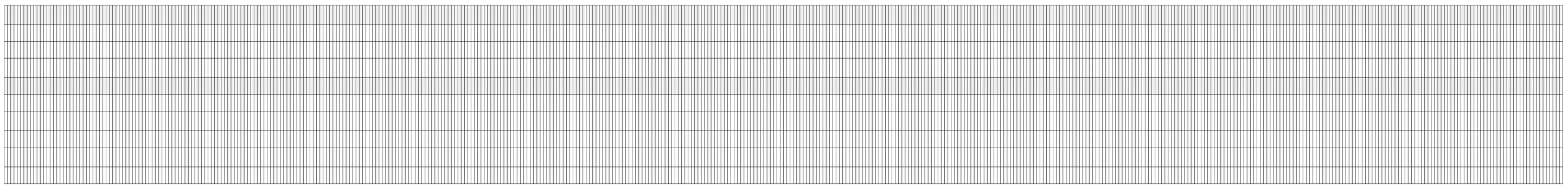


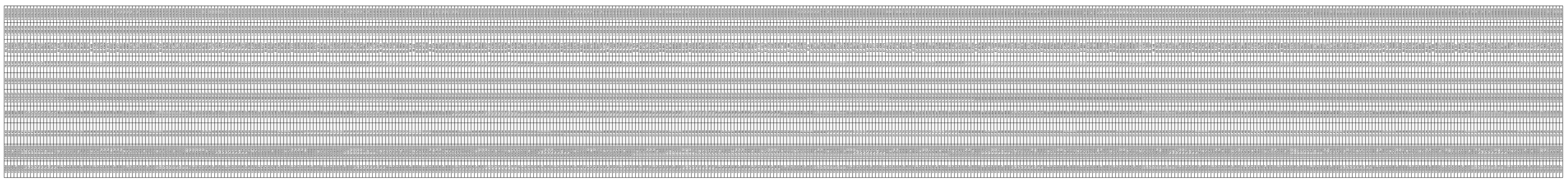


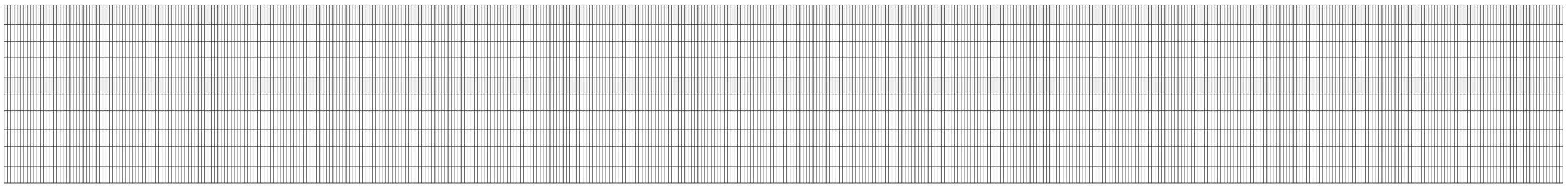


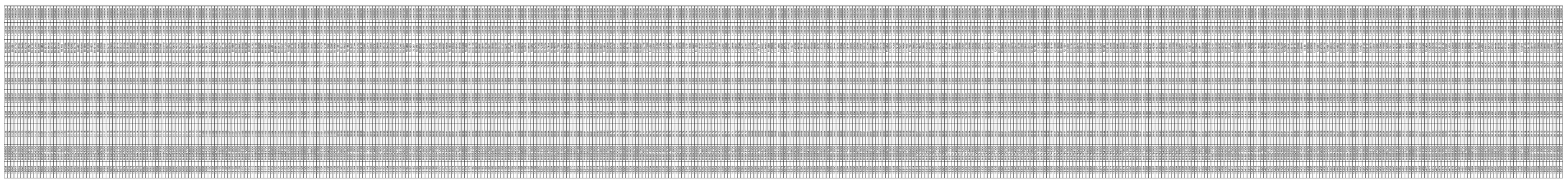


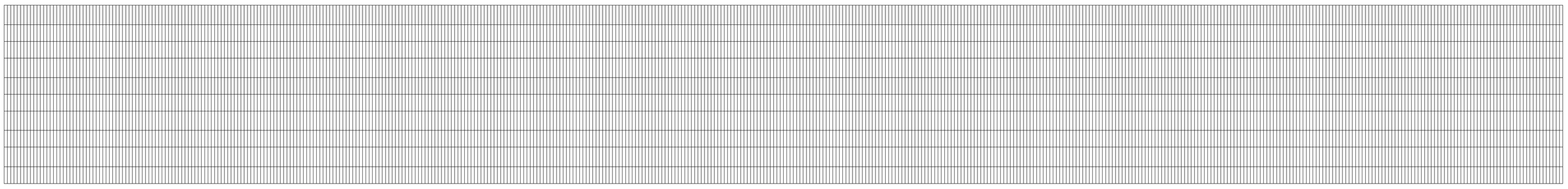


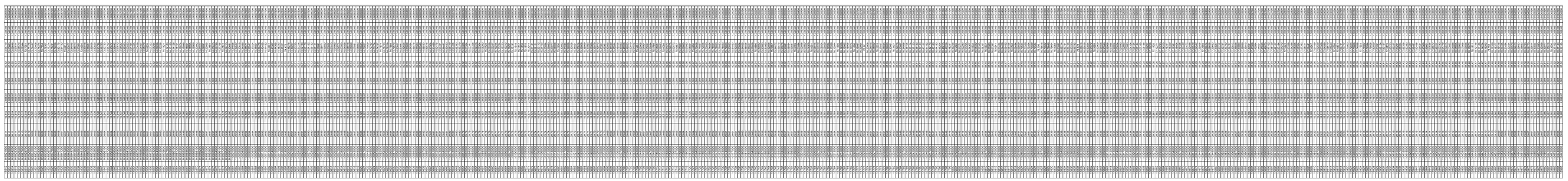


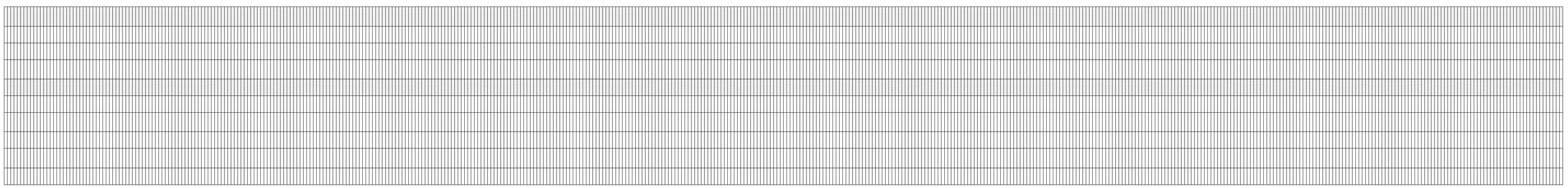


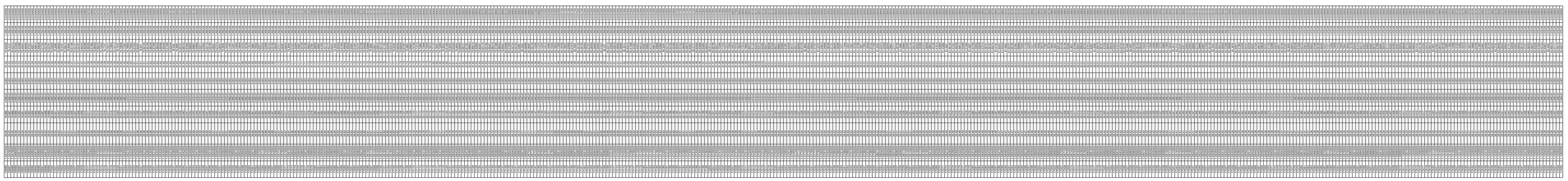


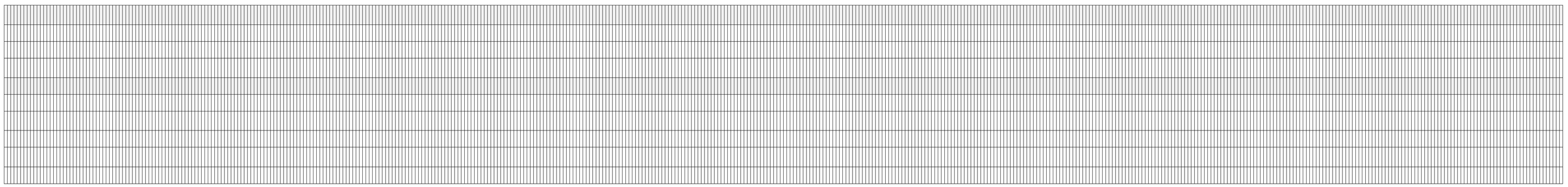


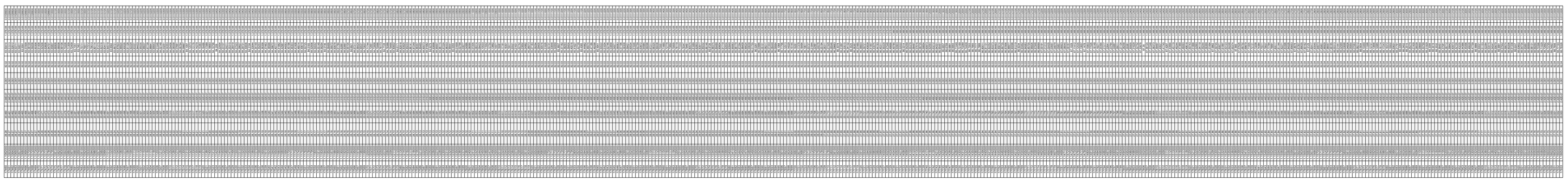


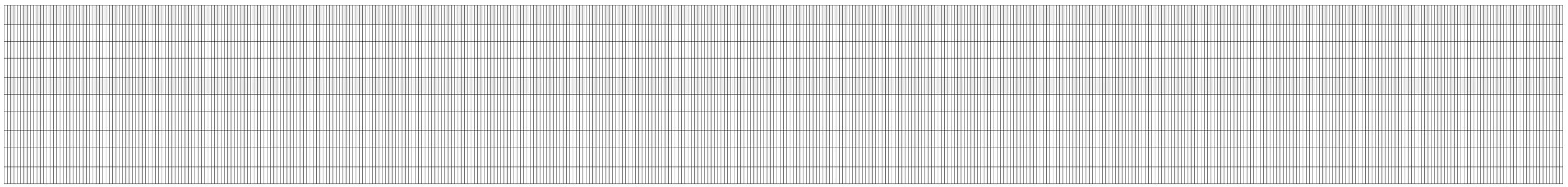


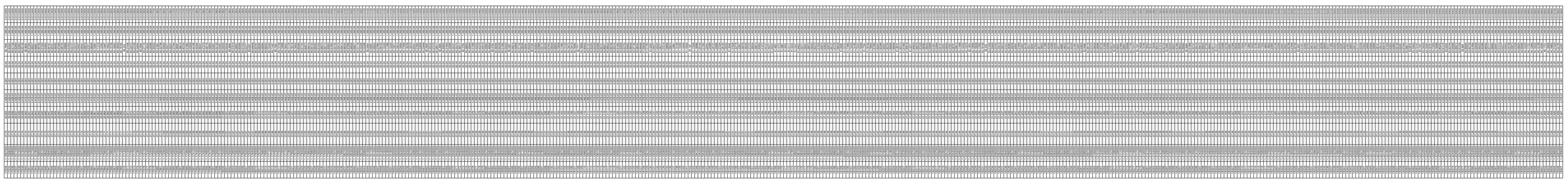


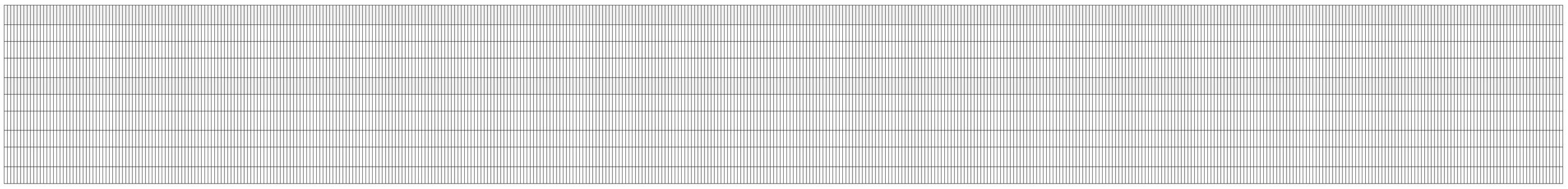


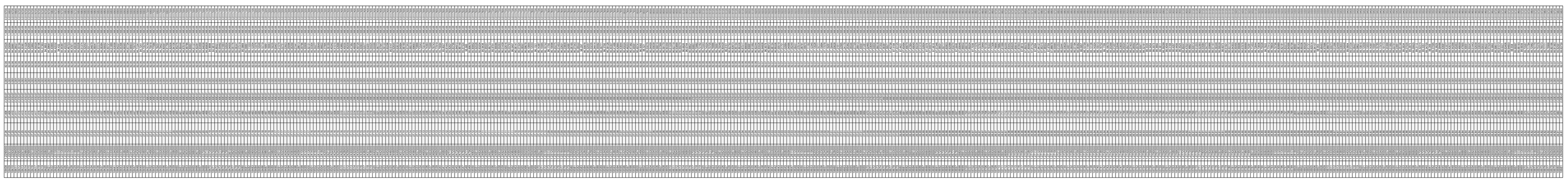


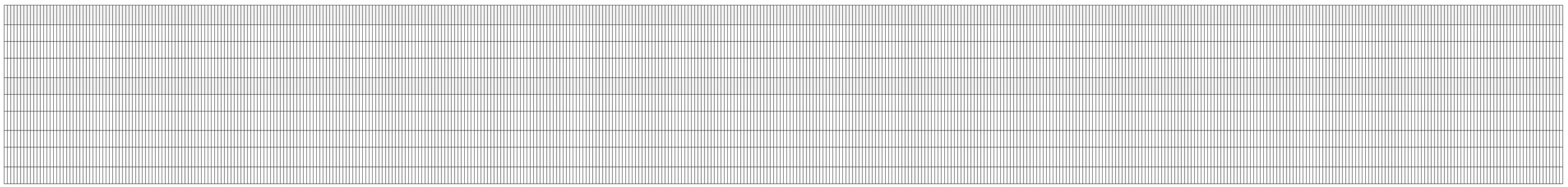


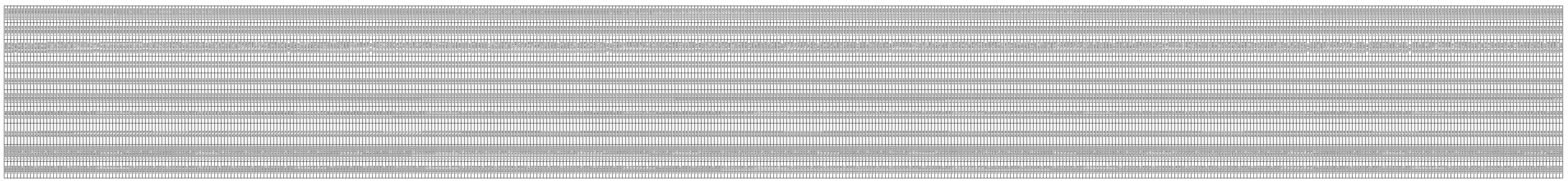


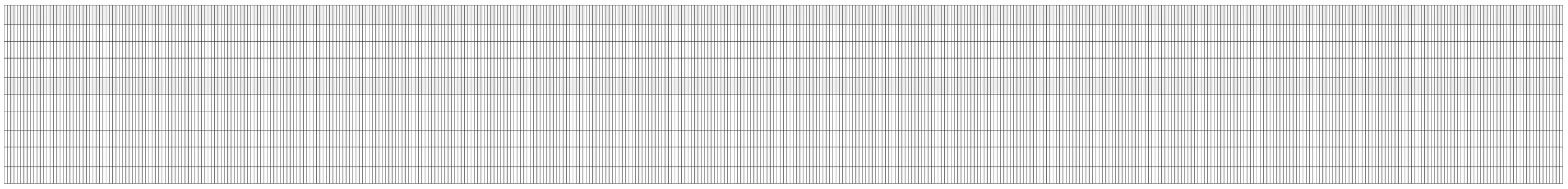


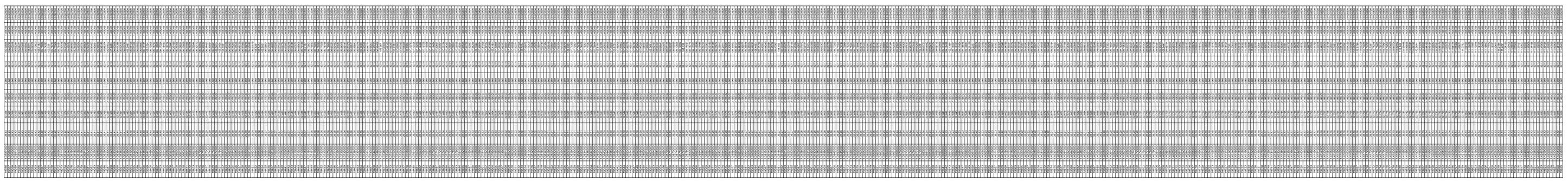


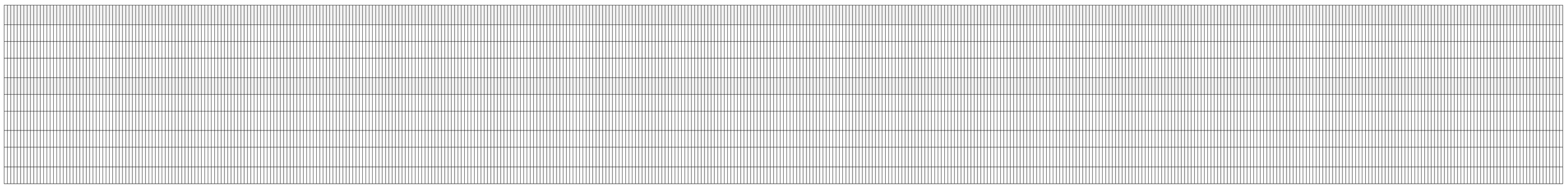


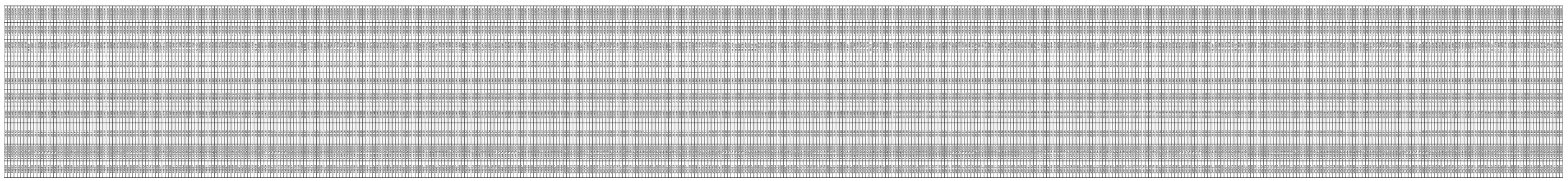


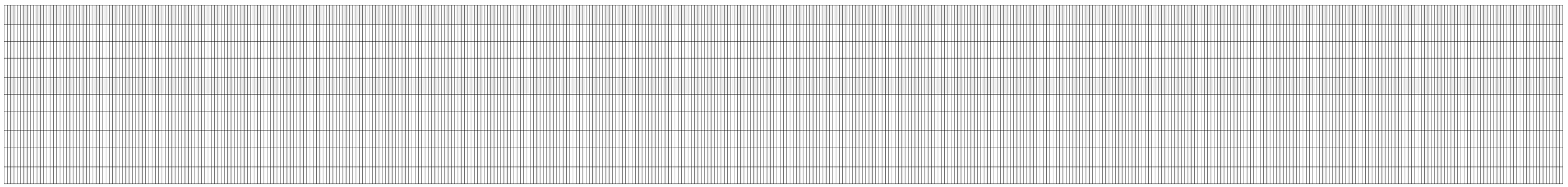


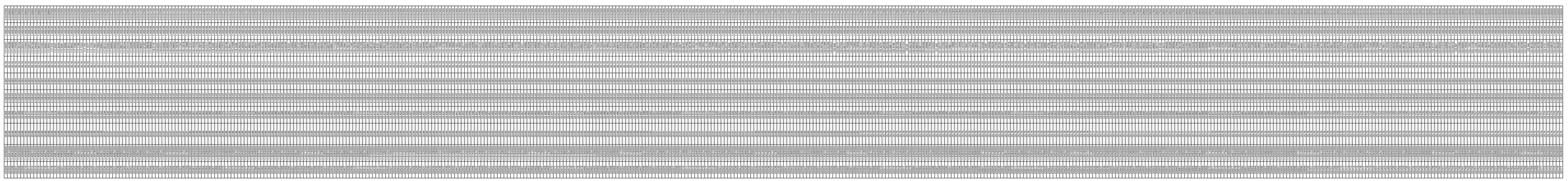


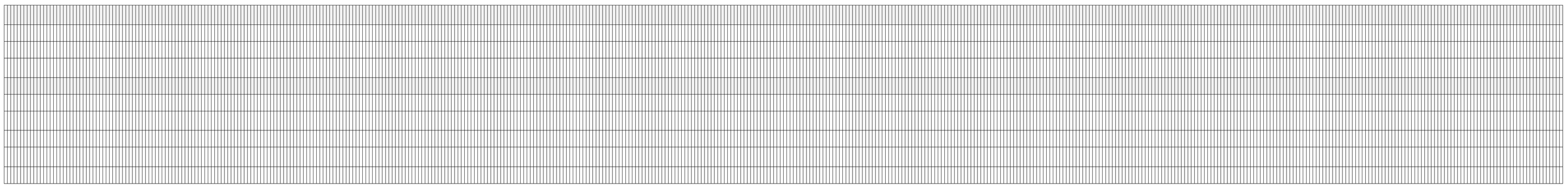


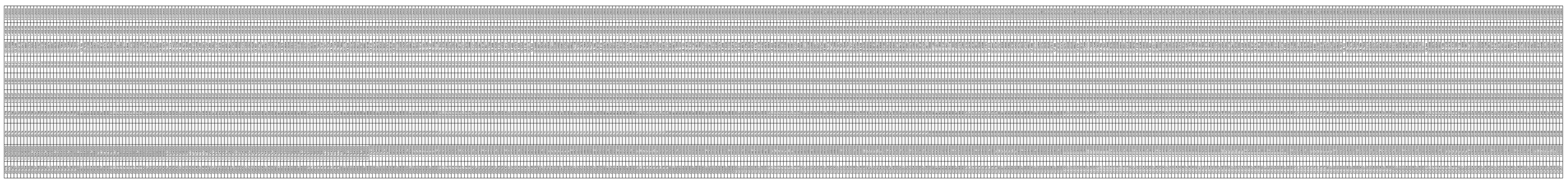


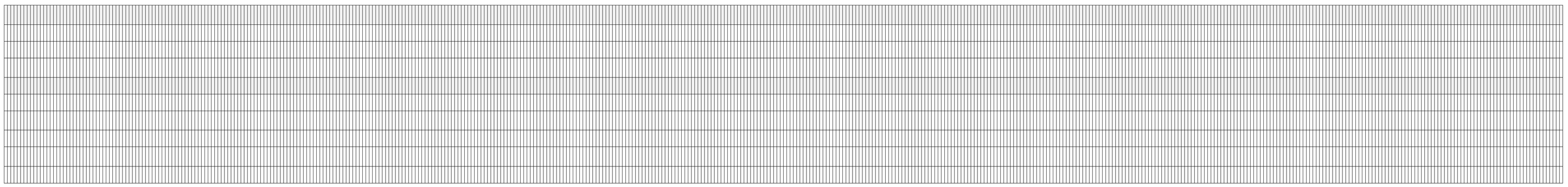


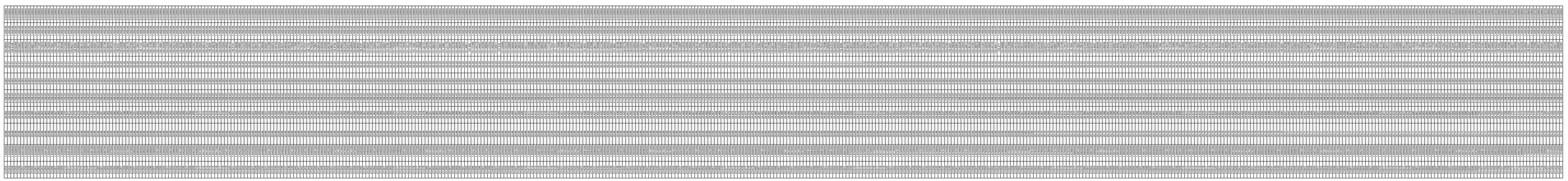


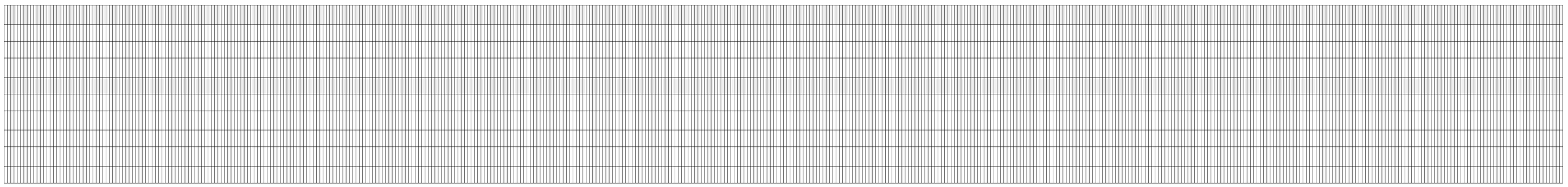


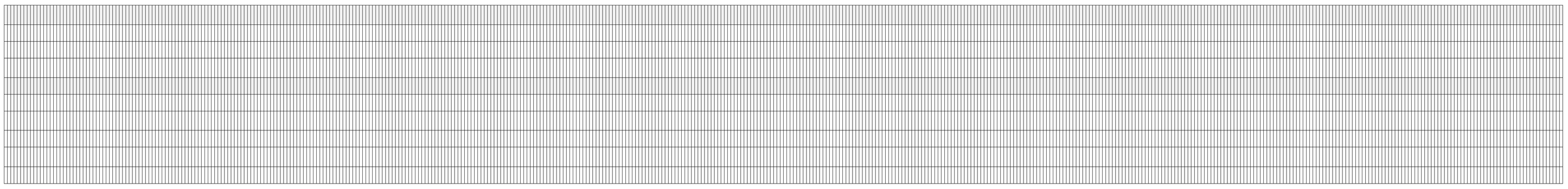


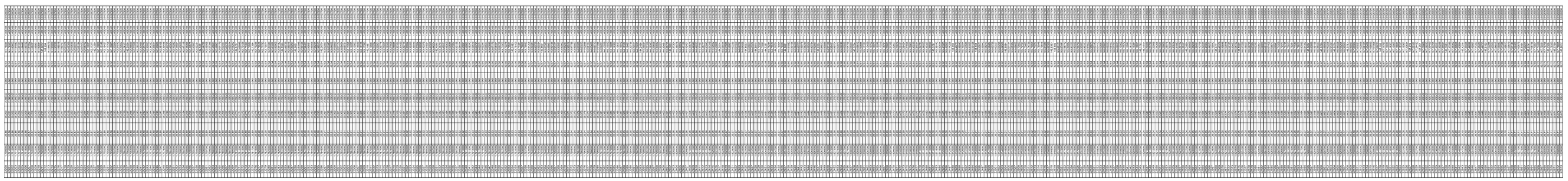


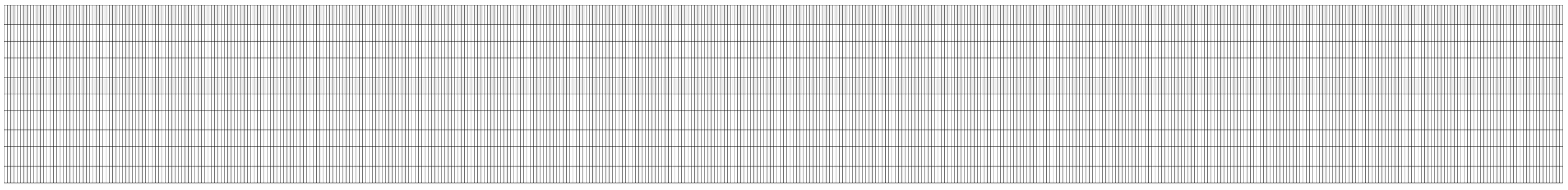


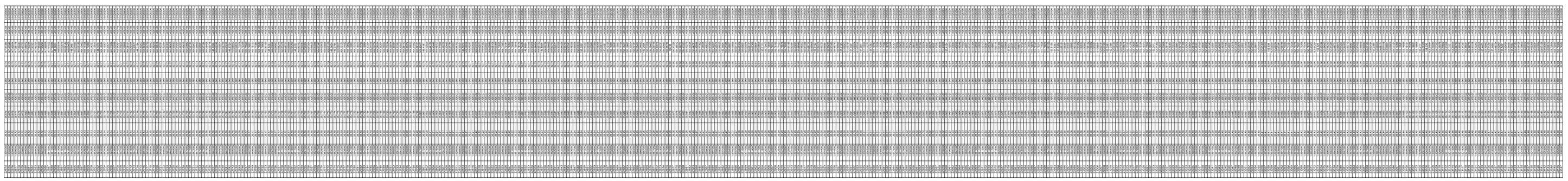


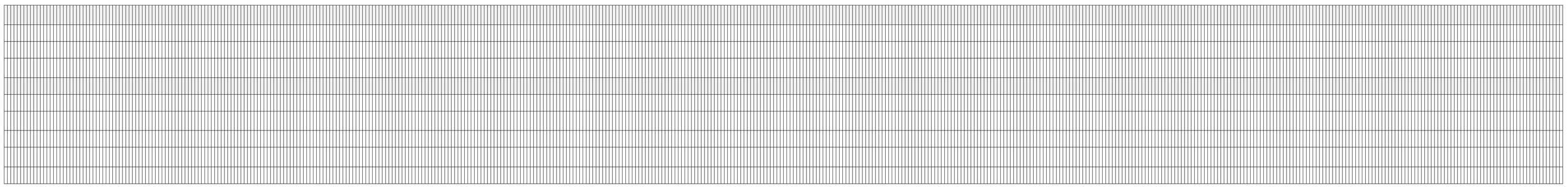


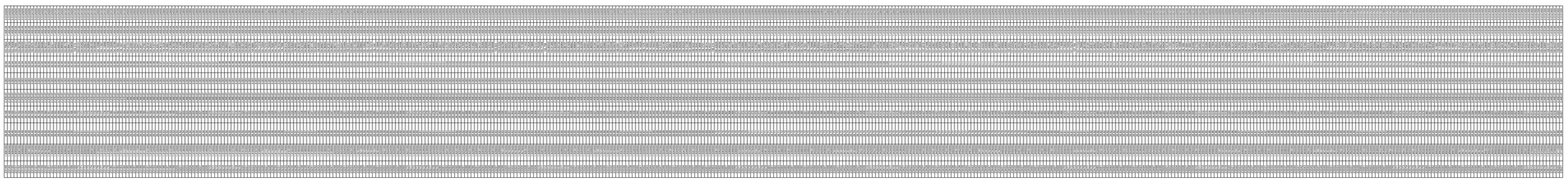


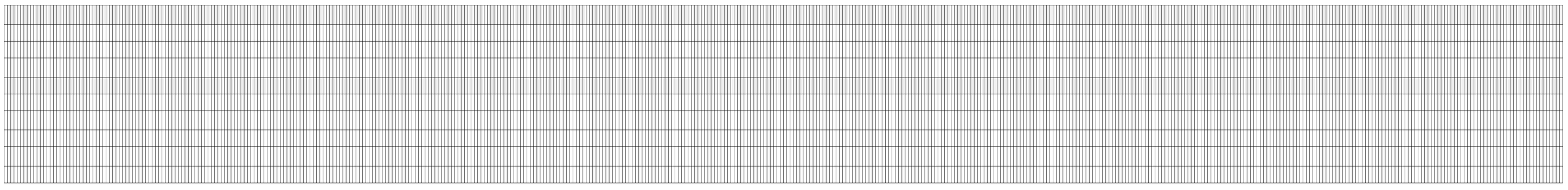


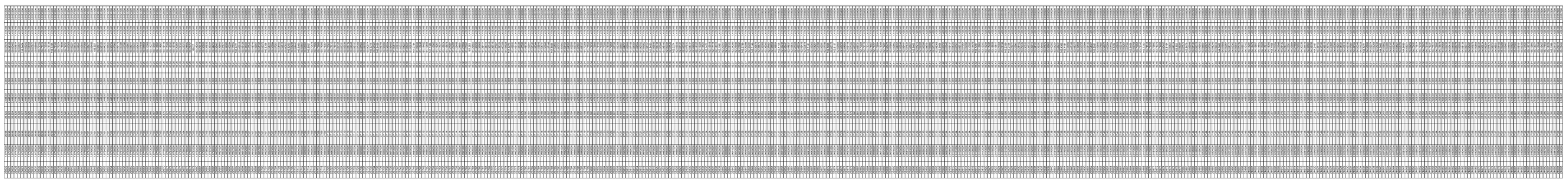


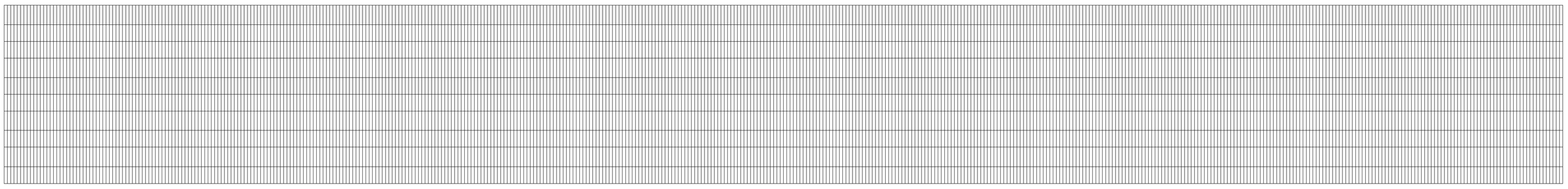


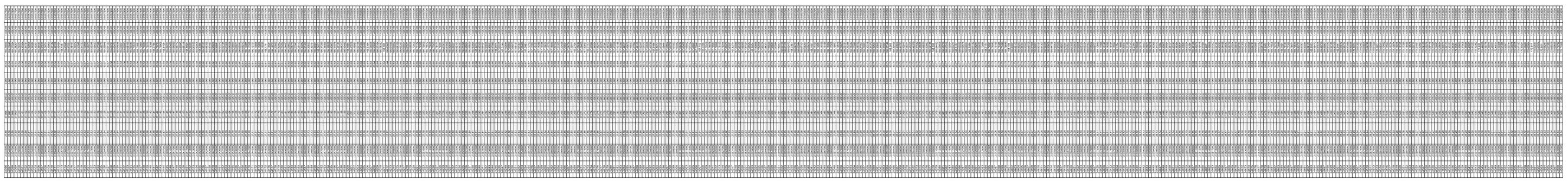


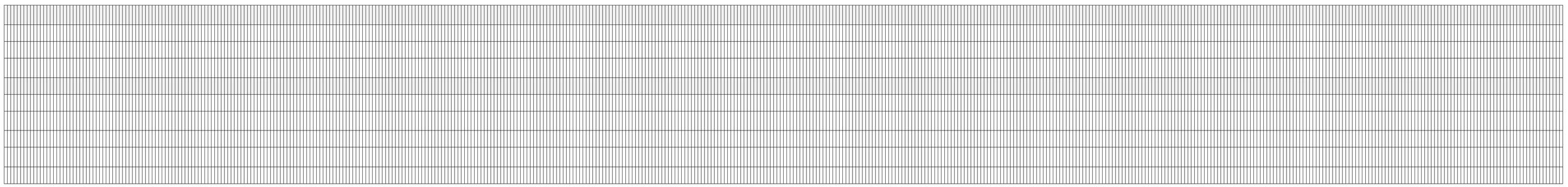


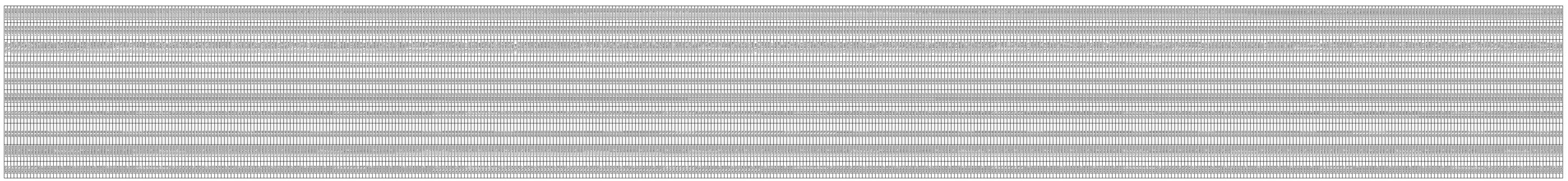


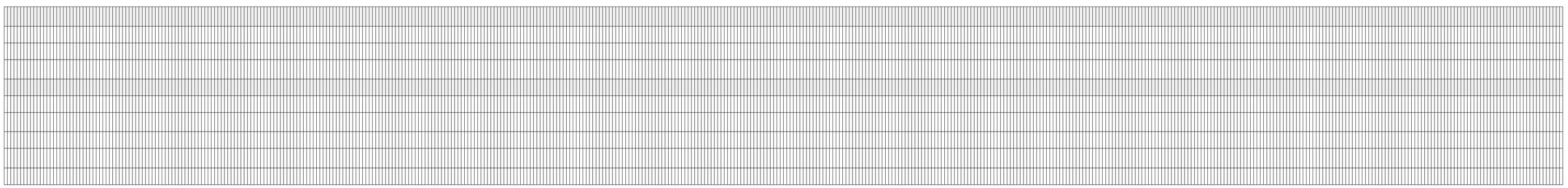


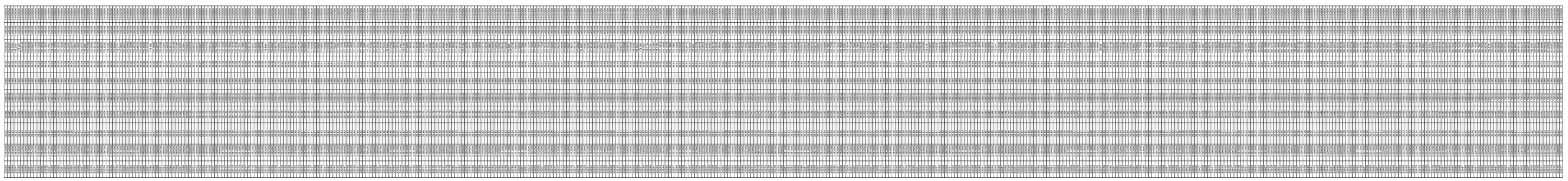


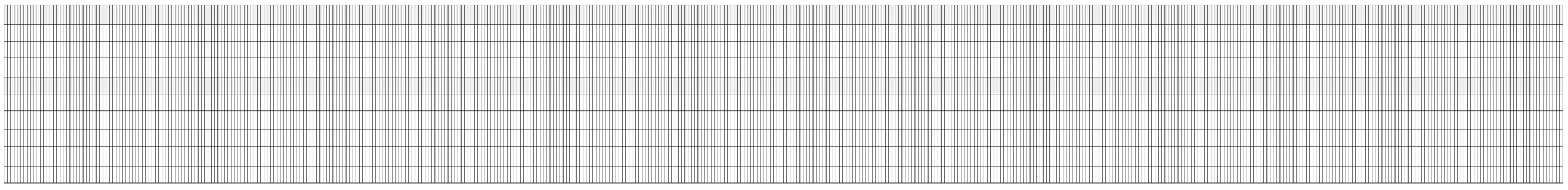


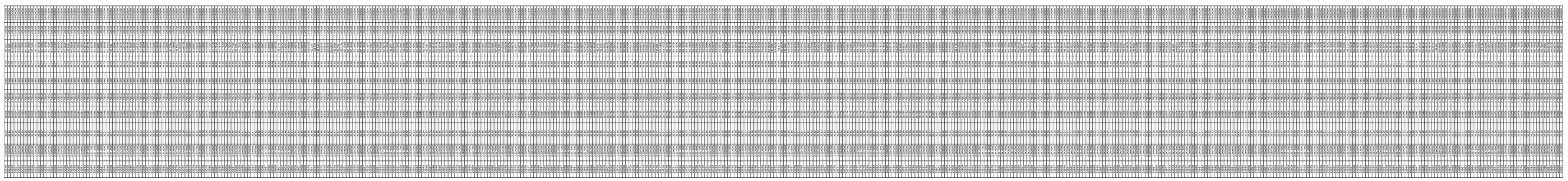


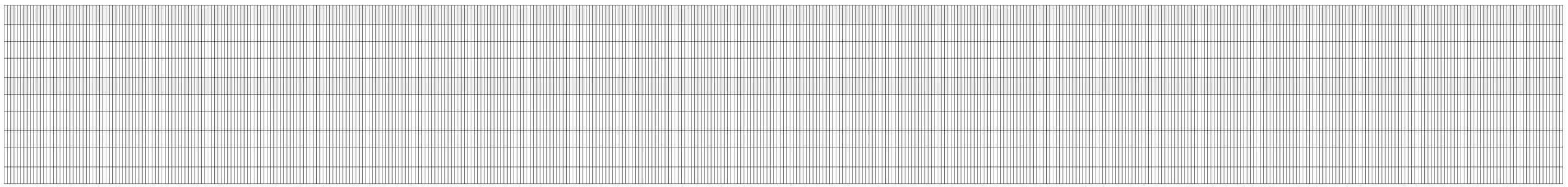


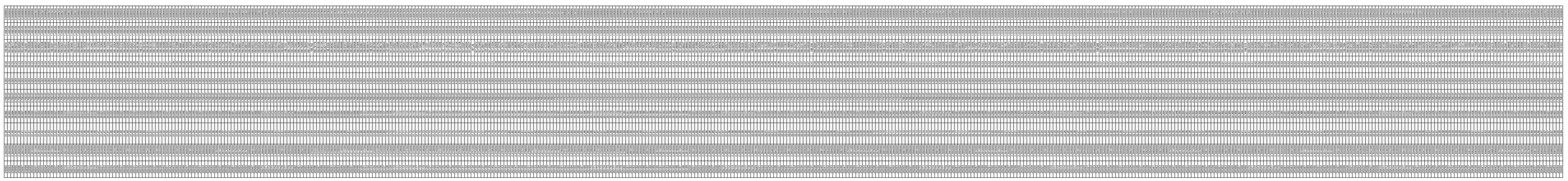


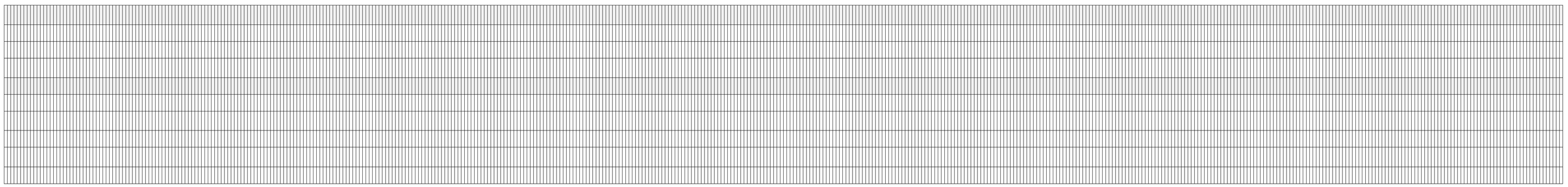


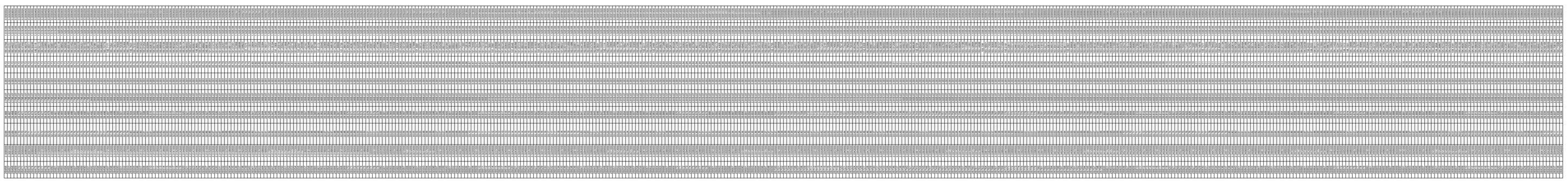


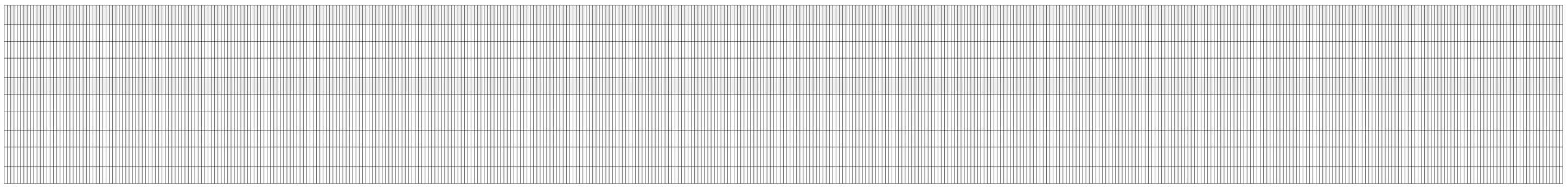


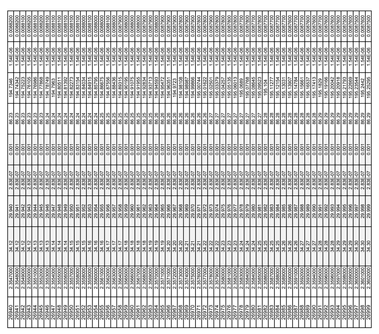


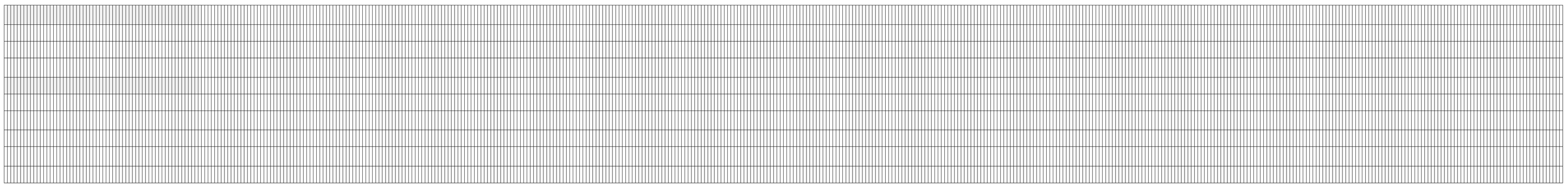


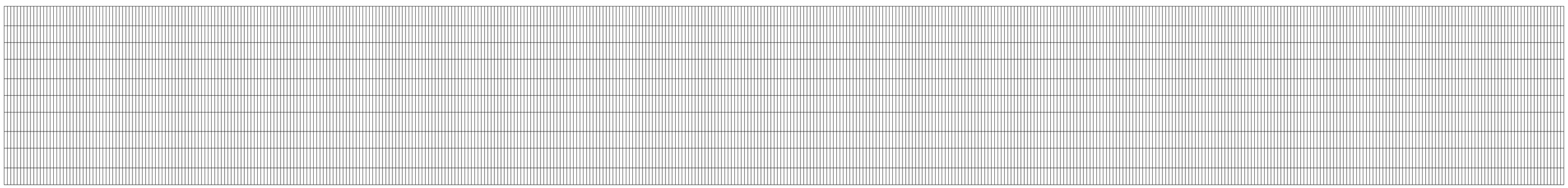


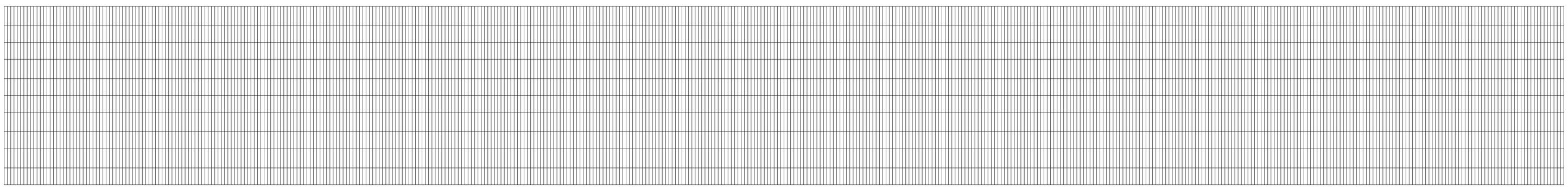


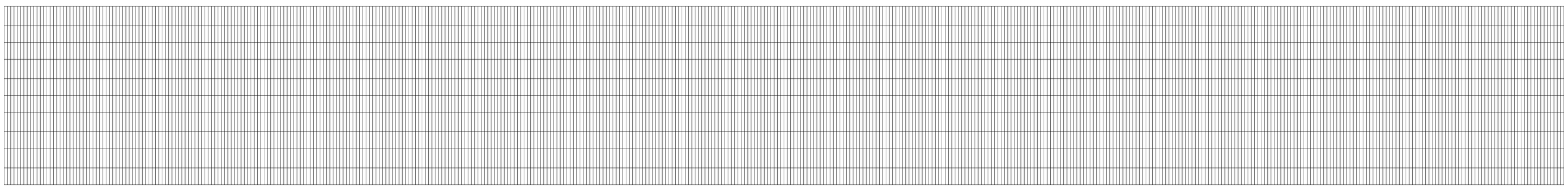


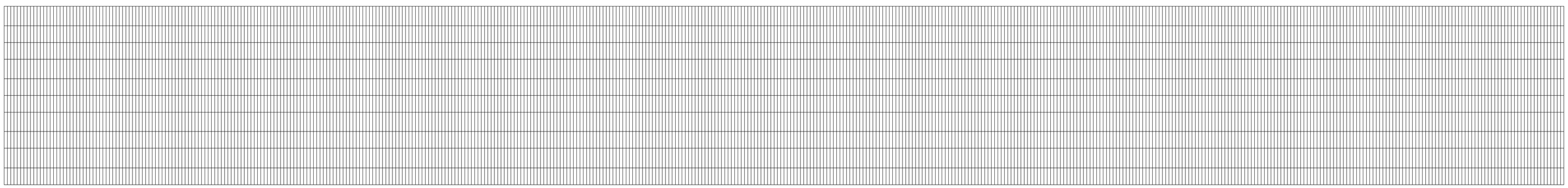


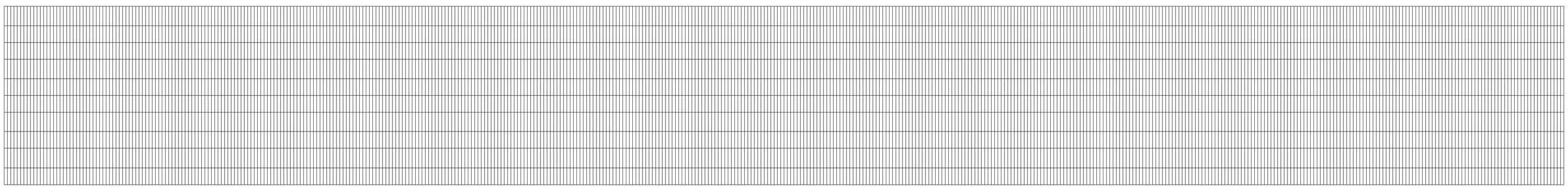


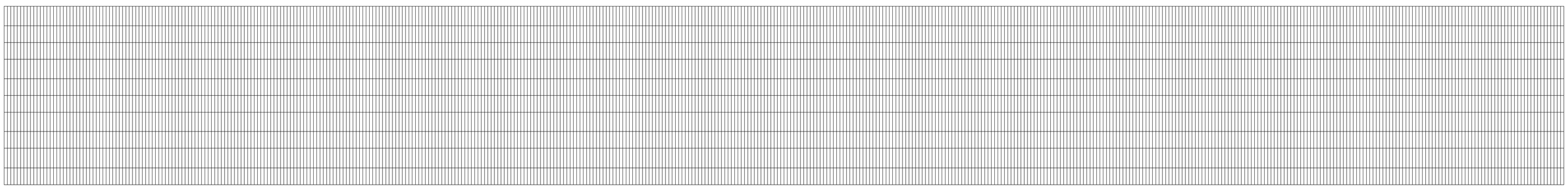


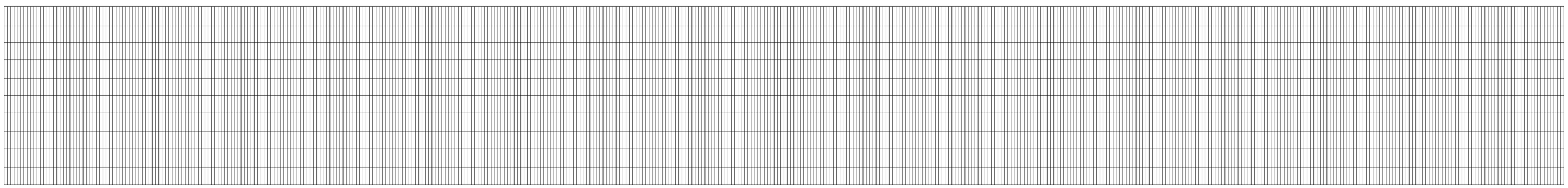


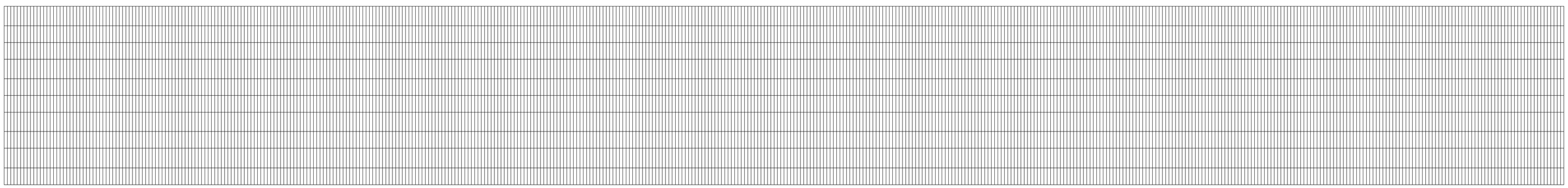


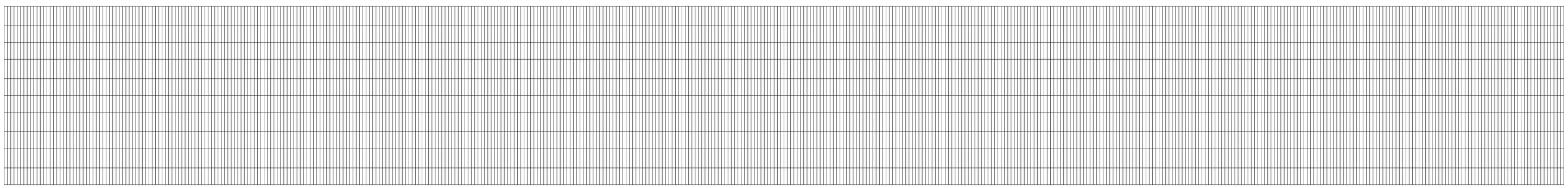


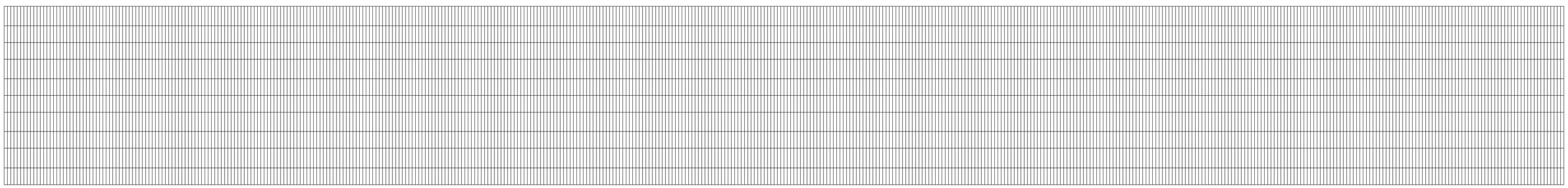


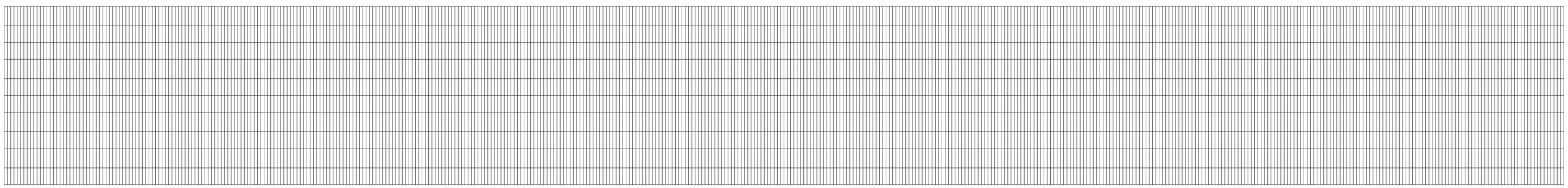


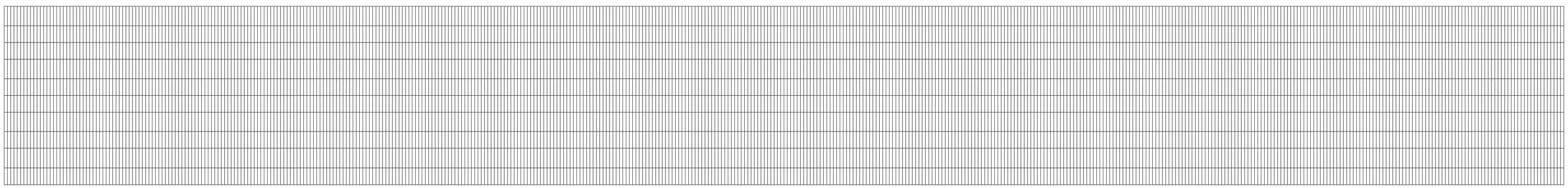


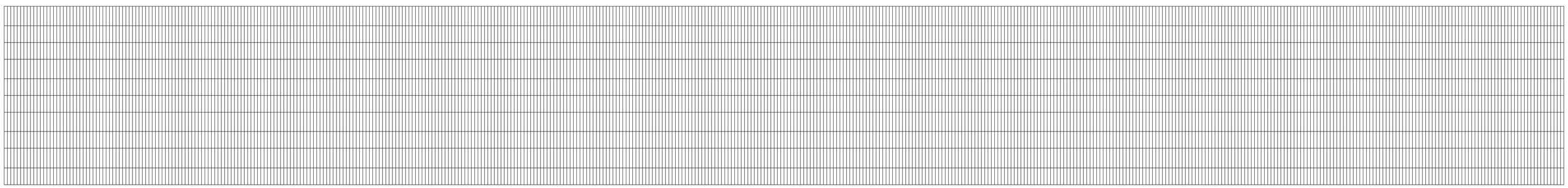


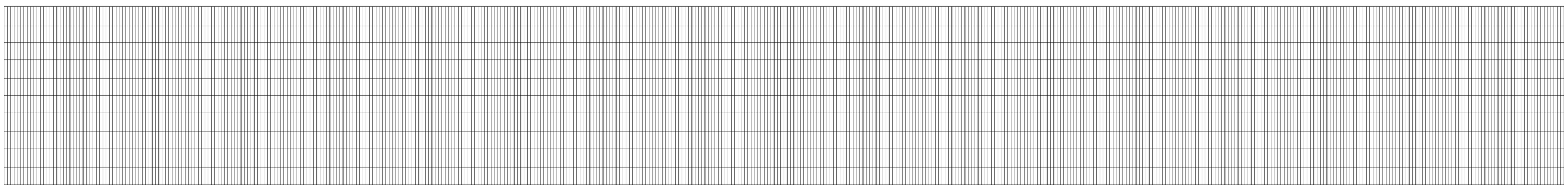


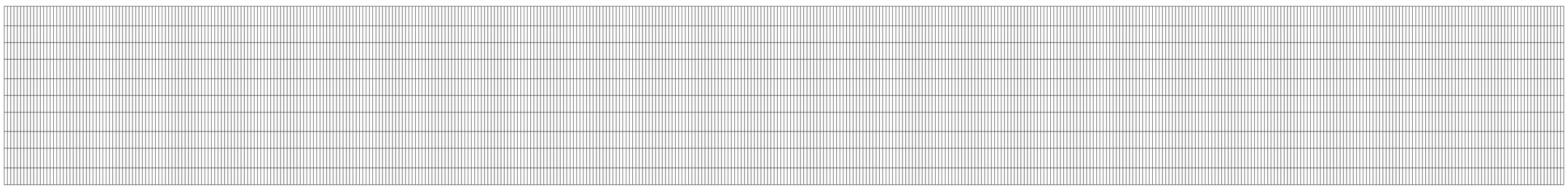


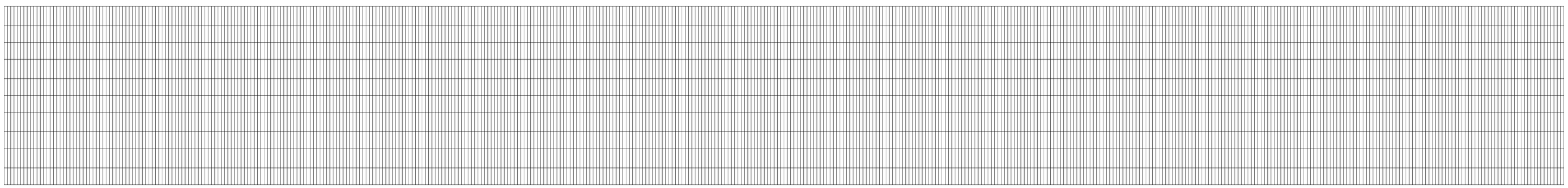


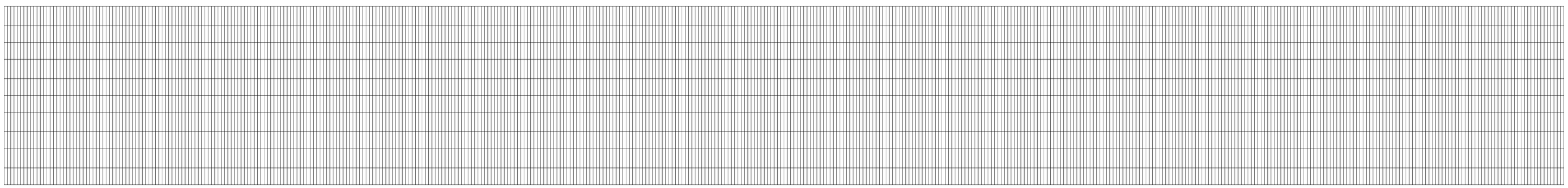


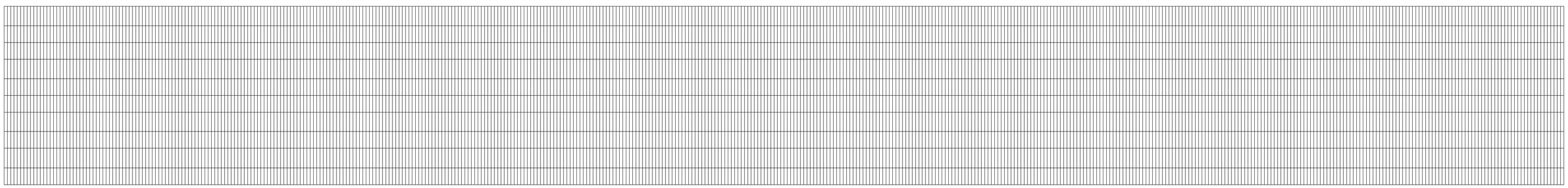


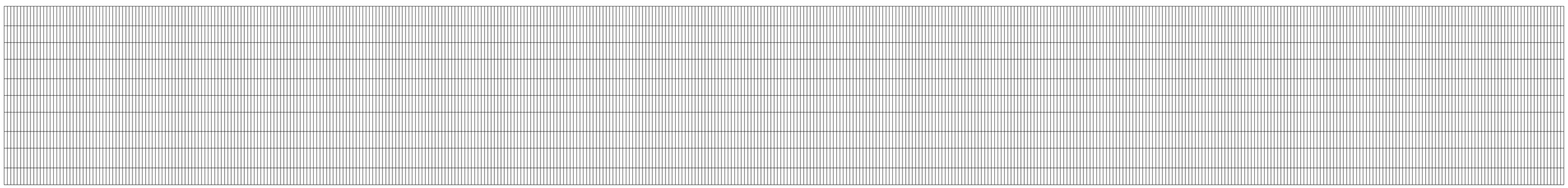


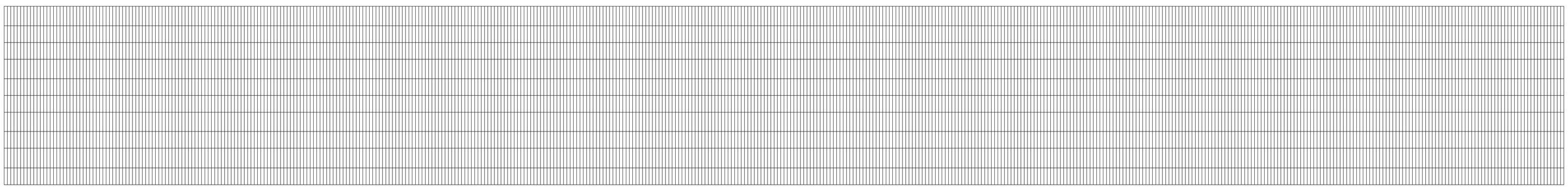


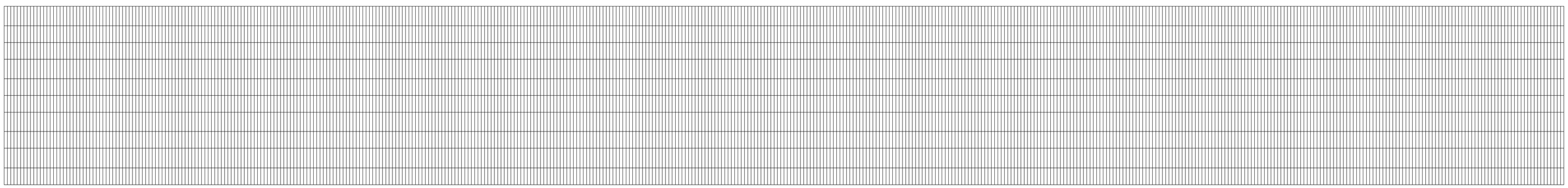


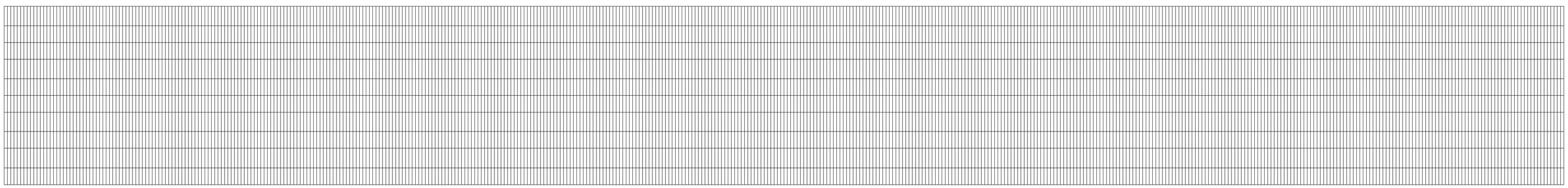


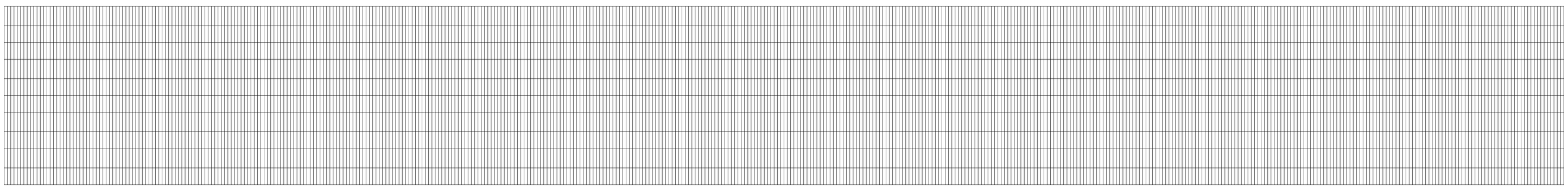


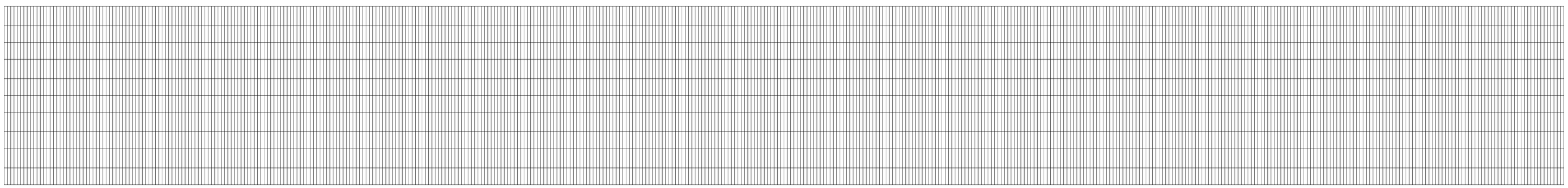


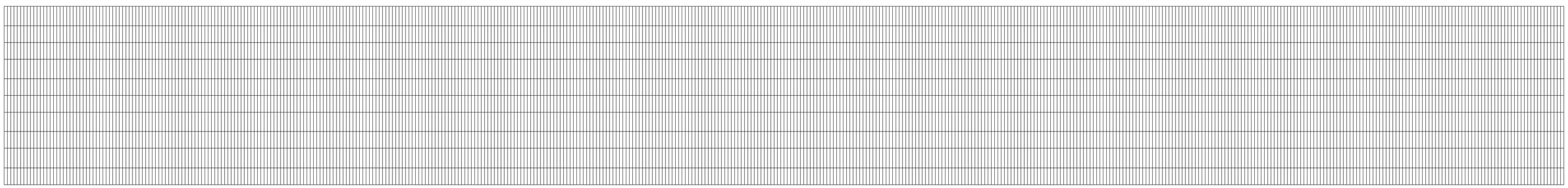


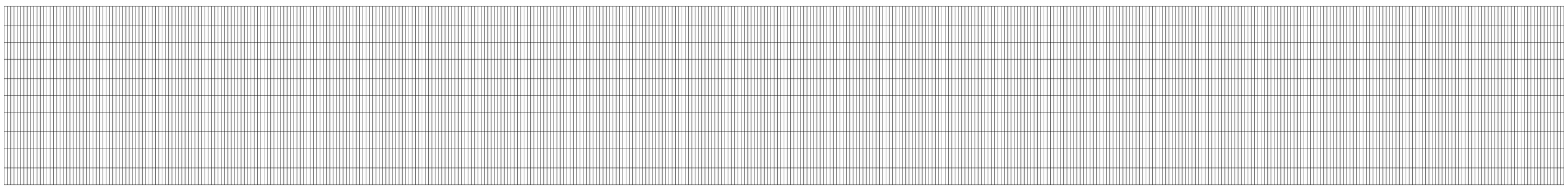


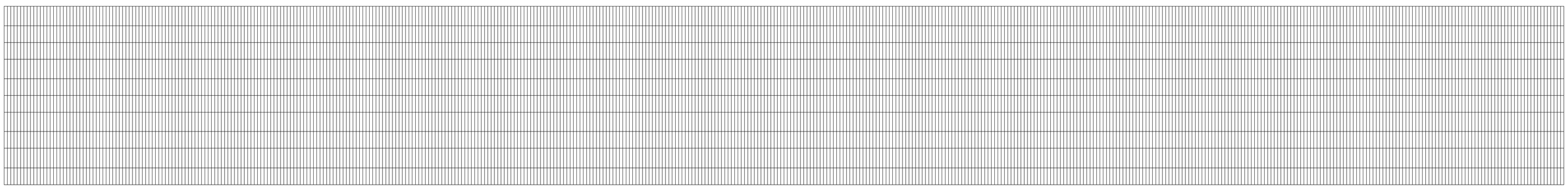


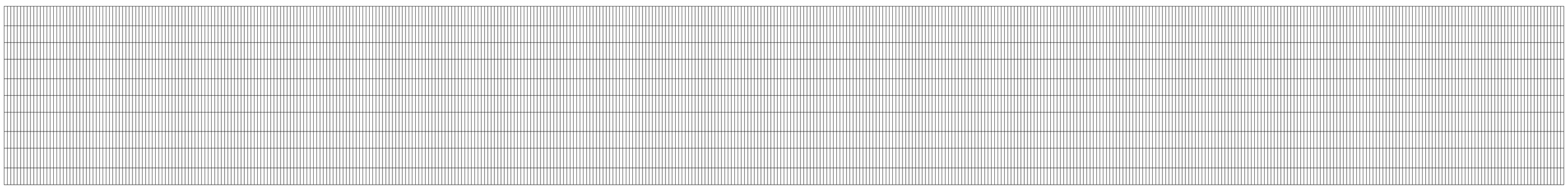


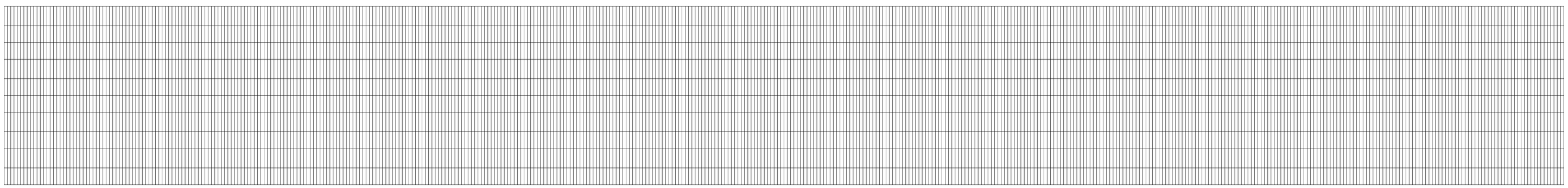


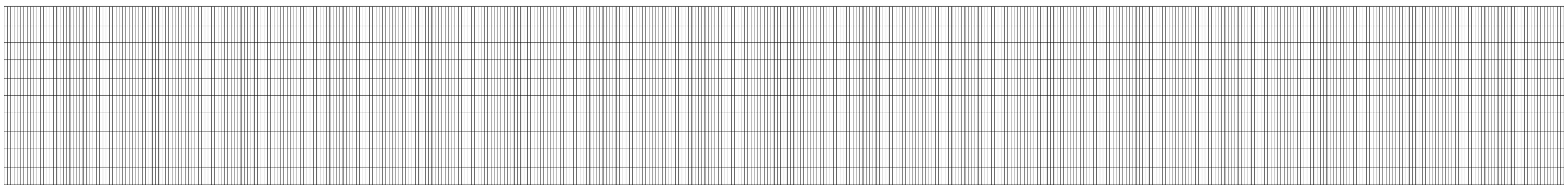


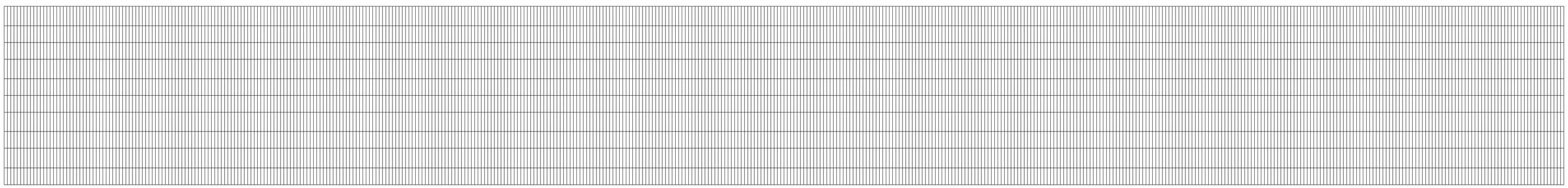


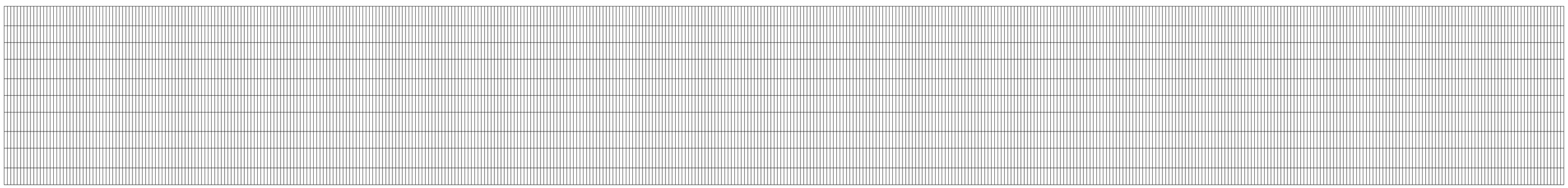


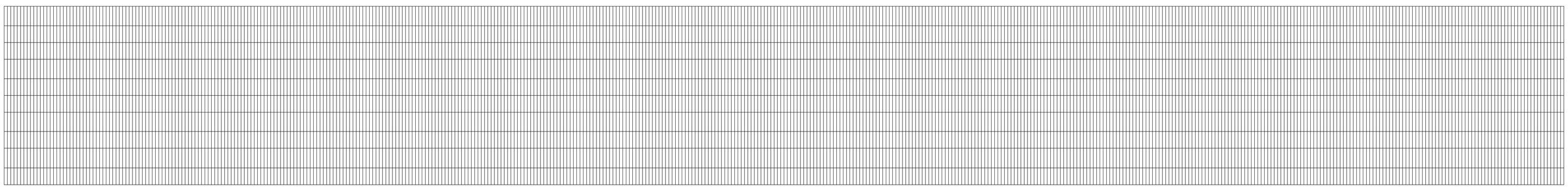


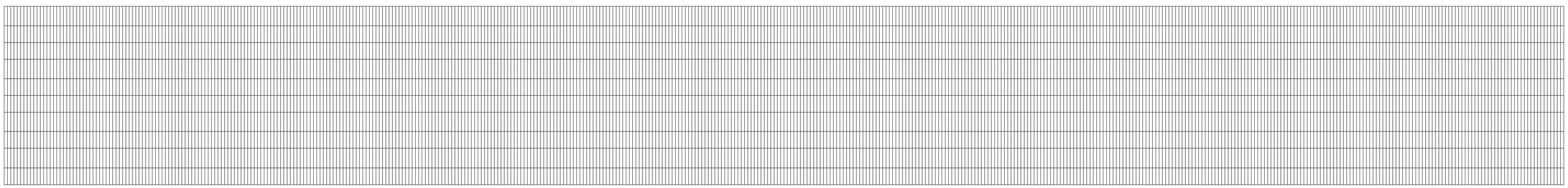


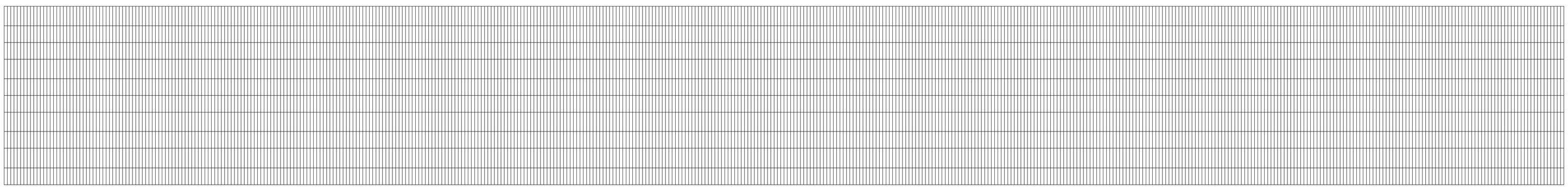


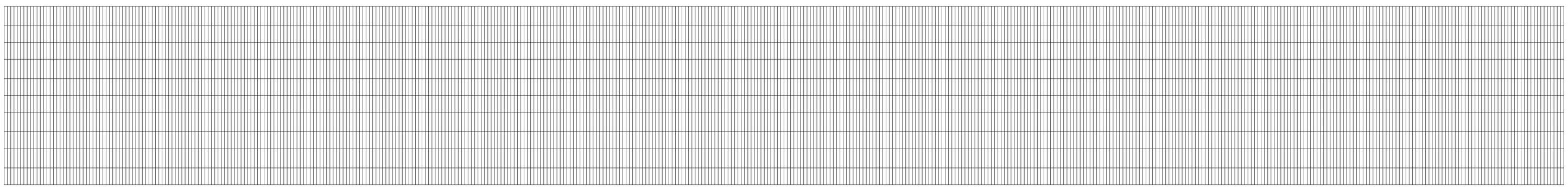


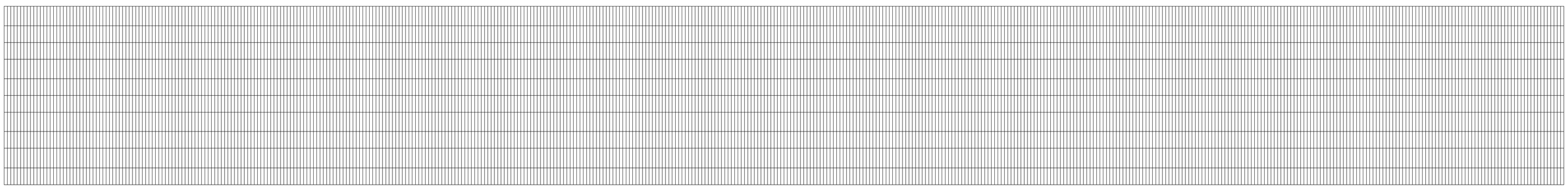


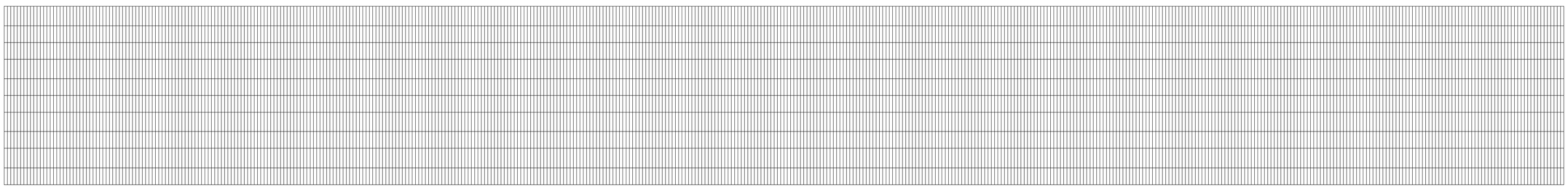


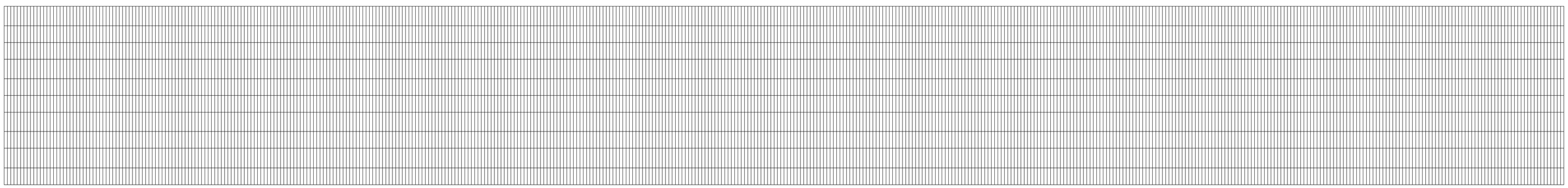


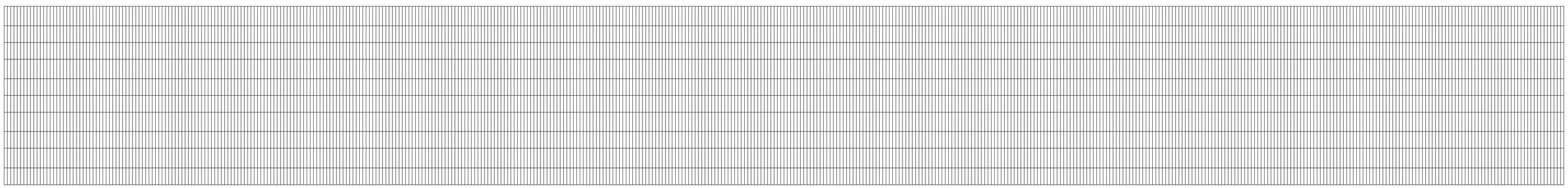


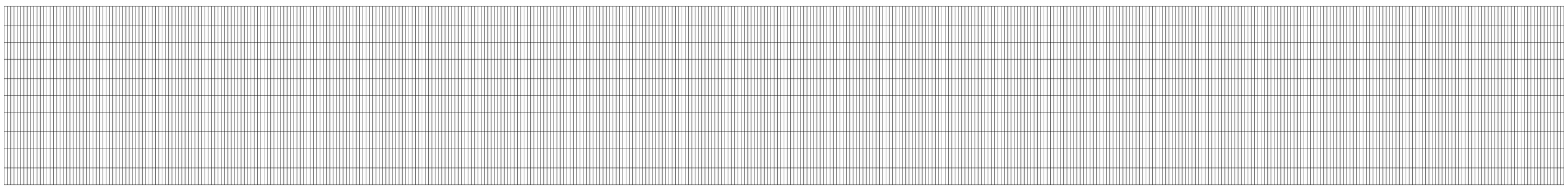


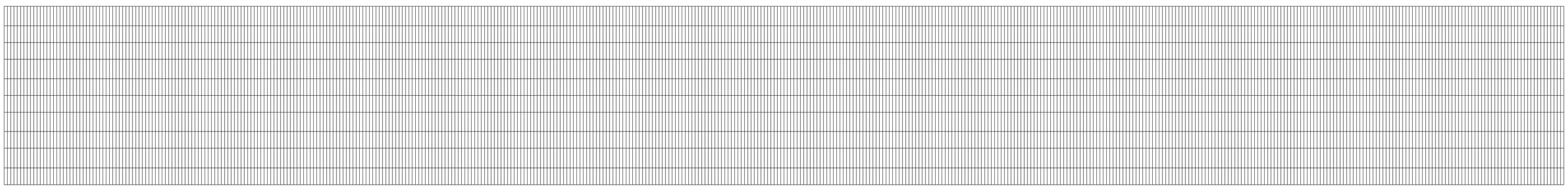


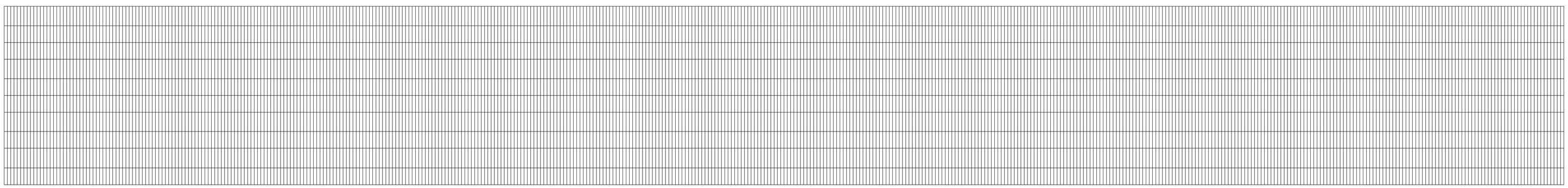


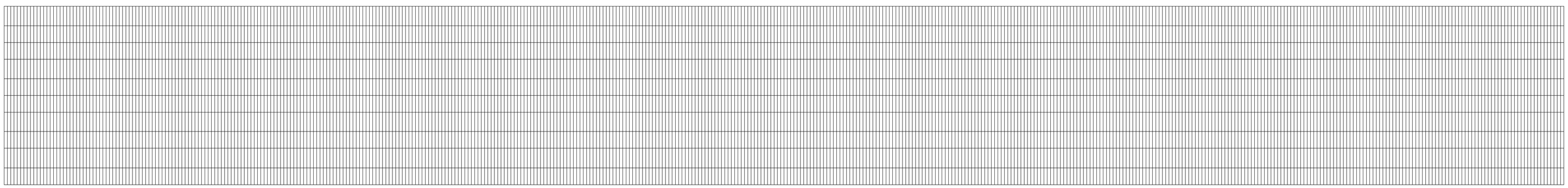


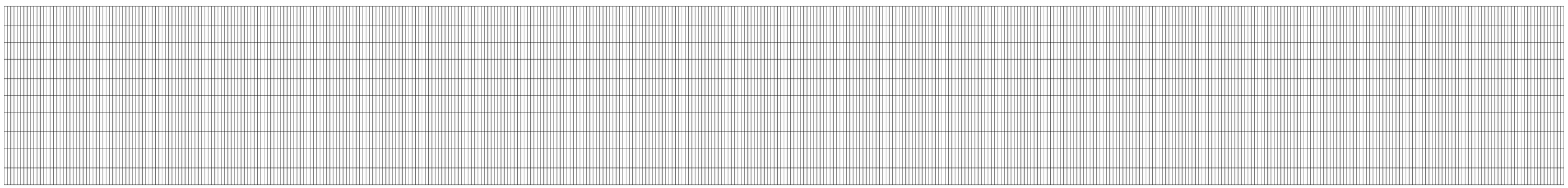


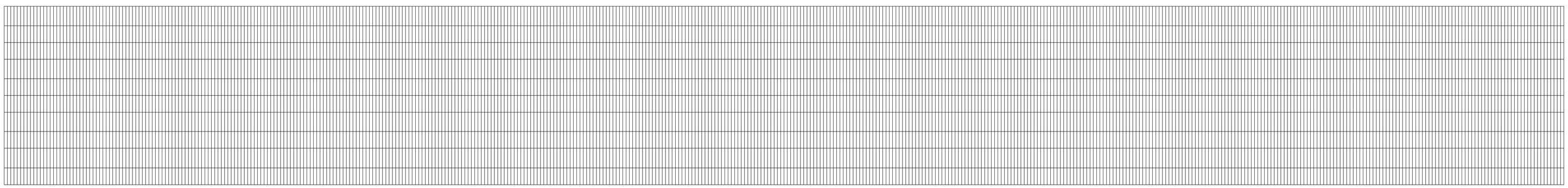


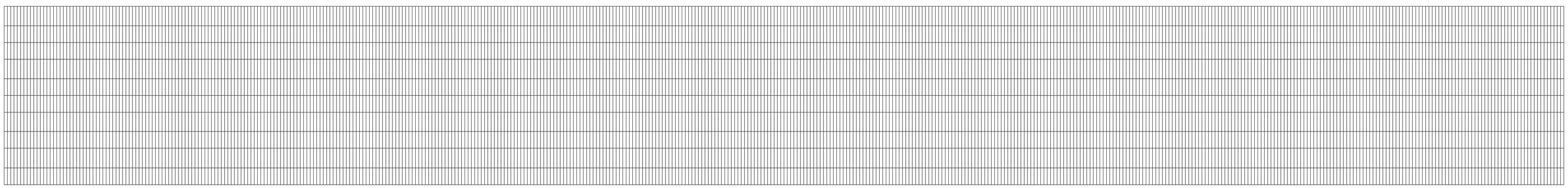


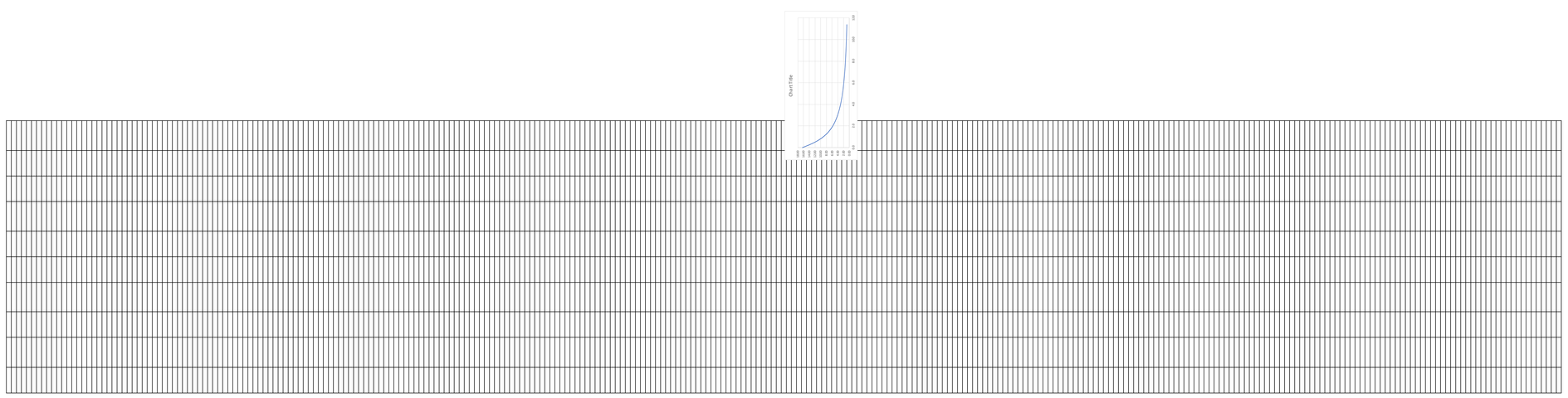











Overflow
0
10
20
30
40
50
60
70
80
90
100

Participating Organization:	Candu Energy Inc	Analyst Identification:	Min Wang	Reporting Date:	31-Aug-22

Codes and Procedures Used in Analysis (add space as needed)

	Name and Version #	List any code or analysis limitiations for these problems (e.g., utilizes flat-plate K-solutions)	List any analysis assumptions	Briefly describe the approach that your code or analysis uses to determine output variables (e.g., K_{tot}, Δc)	Briefly describe the approach used to incorporate WRS within the evaluation	Provide any other comments related to your code capabilities or evaluation approach that affects your results
Task 1: PWSCC Code(s)	PRAISE-CANDU 2.1.1	Crack face pressure is 100%: customized to exclude CFP for benchmark problem.				
Task 1 (SCG1D): Advanced FE Crack Growth Code(s)						

Quantitative Outputs (add space as needed)

SCG Task: Task 1: PWSCC Crack Growth

Analysis ID:

SCG1A

Time @ a = 0.75 t_w (years):		a @ 0.75 t_w (mm):		2c @ 0.75 t_w (mm):	

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface			
Time Block n°	Time (Year)	K_{tot} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{tot} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)
	0.0	15.43	3	9.560E-08		19.23	18.00	1.361E-07	
1	1.0	4.01	6.017	1.106E-08	3.017	25.99	26.6	2.203E-07	8.60
2	2.0	3.42	6.366	8.600E-09	0.349	23.74	40.4	1.905E-07	13.8
3	3.0	2.60	6.637	5.542E-09	0.271	22.04	52.6	1.692E-07	12.2
4	4.0	1.99	6.812	3.612E-09	0.175	20.90	63.2	1.554E-07	10.6
5	5.0	1.58	6.926	2.490E-09	0.114	19.93	73	1.440E-07	9.8
6	6.0	1.28	7.005	1.785E-09	0.079	19.02	82	1.337E-07	9
7	7.0	1.07	7.061	1.342E-09	0.056	18.29	90.6	1.256E-07	8.6
8	8.0	0.91	7.103	1.030E-09	0.042	17.75	98.4	1.196E-07	7.8
9	9.0	0.79	7.136	8.191E-10	0.033	17.27	106	1.145E-07	7.6
10	10.0	0.69	7.162	6.635E-10	0.026	16.87	113.2	1.103E-07	7.2
11	11.0	0.61	7.183	5.511E-10	0.021	16.51	120.2	1.066E-07	7
12	12.0	0.63	7.2	5.666E-10	0.017	16.20	127	1.034E-07	6.8
13	13.0	0.55	7.218	4.649E-10	0.018	15.96	133.4	1.010E-07	6.4
14	14.0	0.50	7.233	3.955E-10	0.015	15.71	139.8	9.842E-08	6.4
15	15.0	0.45	7.245	3.343E-10	0.012	15.49	146	9.621E-08	6.2
16	16.0	0.40	7.256	2.781E-10	0.011	15.22	152.2	9.357E-08	6.2
17	17.0	0.36	7.265	2.356E-10	0.009	14.98	158	9.117E-08	5.8
18	18.0	0.32	7.272	1.973E-10	0.007	14.78	163.8	8.927E-08	5.8
19	19.0	0.30	7.278	1.727E-10	0.006	14.56	169.4	8.714E-08	5.6
20	20.0	0.27	7.284	1.481E-10	0.006	14.39	174.8	8.553E-08	5.4
21	21.0	0.25	7.288	1.285E-10	0.004	14.23	180.2	8.401E-08	5.4
22	22.0	0.23	7.292	1.126E-10	0.004	14.08	185.6	8.258E-08	5.4
23	23.0	0.21	7.296	9.960E-11	0.004	13.93	190.8	8.122E-08	5.2
24	24.0	0.20	7.299	8.904E-11	0.003	13.79	196	7.992E-08	5.2
25	25.0	0.18	7.302	8.061E-11	0.003	13.66	201	7.871E-08	5
26	26.0	0.17	7.304	7.352E-11	0.002	13.53	206	7.754E-08	5
27	27.0	0.17	7.307	6.750E-11	0.003	13.41	210.8	7.640E-08	4.8
28	28.0	0.16	7.309	6.236E-11	0.002	13.29	215.6	7.535E-08	4.8
29	29.0	0.14	7.311	5.454E-11	0.002	13.22	220.4	7.466E-08	4.8
30	30.0	0.14	7.313	5.114E-11	0.002	13.11	225.2	7.367E-08	4.8
31	31.0	0.13	7.314	4.823E-11	0.001	13.01	229.8	7.272E-08	4.6
32	32.0	0.12	7.316	4.253E-11	0.002	12.94	234.4	7.215E-08	4.6
33	33.0	0.12	7.317	4.066E-11	0.001	12.84	239	7.127E-08	4.6
34	34.0	0.11	7.318	3.606E-11	0.001	12.78	243.4	7.076E-08	4.4
35	35.0	0.11	7.319	3.489E-11	0.001	12.69	247.8	6.994E-08	4.4
36	36.0	0.10	7.321	3.109E-11	0.002	12.64	252.4	6.946E-08	4.6
37	37.0	0.10	7.322	3.046E-11	0.001	12.55	256.6	6.867E-08	4.2
38	38.0	0.09	7.323	2.723E-11	0.001	12.50	261	6.826E-08	4.4
39	39.0	0.09	7.323	2.698E-11	0	12.41	265.4	6.750E-08	4.4
40	40.0	0.09	7.324	2.420E-11	0.001	12.37	269.6	6.712E-08	4.2
41	41.0	0.09	7.325	2.423E-11	0.001	12.29	273.8	6.642E-08	4.2
42	42.0	0.08	7.326	2.180E-11	0.001	12.24	278	6.604E-08	4.2
43	43.0	0.08	7.326	2.204E-11	0	12.16	282.2	6.537E-08	4.2
44	44.0	0.08	7.327	1.988E-11	0.001	12.13	286.4	6.502E-08	4.2
45	45.0	0.07	7.328	1.797E-11	0.001	12.09	290.4	6.471E-08	4
46	46.0	0.07	7.328	1.836E-11	0	12.01	294.4	6.401E-08	4
47	47.0	0.07	7.329	1.603E-11	0.001	11.97	298.6	6.369E-08	4.2
48	48.0	0.06	7.329	1.398E-11	0	11.93	302.6	6.338E-08	4
49	49.0	0.06	7.33	1.436E-11	0.001	11.85	306.6	6.265E-08	4
50	50.0	0.06	7.33	1.256E-11	0	11.81	310.6	6.24E-08	4

Comments or Notes Pertaining to Analysis:

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

SCG1B

Time @ a = 0.75 t_w (years):	2.49	a @ 0.75 t_w (mm):	30	2c @ 0.75 t_w (mm):	188.4

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface			
Time Block n°	Time (Year)	K_{tot} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{tot} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)
	0.00	37.7899	3.0	3.993E-07		24.6852	18.00	2.028E-07	
1	0.01	38.4149	3.1	4.119E-07	0.126	25.5357	18.13	2.141E-07	0.128
2	0.02	39.0622	3.3	4.215E-07	0.13	26.4163	18.26	2.260E-07	0.134
3	0.03	39.701	3.4	4.341E-07	0.134	27.3229	18.41	2.386E-07	0.144
4	0.04	40.347	3.5	4.436E-07	0.137	28.258	18.56	2.518E-07	0.15
5	0.05	41.0016	3.7	4.563E-07	0.14	29.212	18.72	2.655E-07	0.16
6	0.06	41.6691	3.8	4.690E-07	0.144	30.1652	18.88	2.795E-07	0.166
7	0.07	42.3592	4.0	4.817E-07	0.148	31.0549	19.06	2.928E-07	0.178
8	0.08	42.968	4.1	4.912E-07	0.152	31.8867	19.24	3.055E-07	0.184
9	0.09	43.526	4.3	5.038E-07	0.155	32.6992	19.44	3.169E-07	0.192
10	0.10	44.089	4.4	5.133E-07	0.159	33.529	19.64	3.296E-07	0.202
11	0.11	44.6573	4.6	5.229E-07	0.162	34.3763	19.85	3.454E-07	0.208
12	0.12	45.2324	4.8	5.355E-07	0.165	35.2322	20.00	3.581E-07	0.154
13	0.13	45.8305	4.9	5.450E-07	0.169	36.1238	20.20	3.739E-07	0.2
14	0.14	46.4177	5.1	5.577E-07	0.172	37.0252	20.60	3.866E-07	0.4
15	0.15	47.0302	5.3	5.704E-07	0.176	37.8684	20.80	4.024E-07	0.2
16	0.16	47.6588	5.4	5.799E-07	0.179	38.7033	21.00	4.151E-07	0.2
17	0.17	48.3147	5.6	5.926E-07	0.184	39.5567	21.20	4.310E-07	0.2
18	0.18	48.9635	5.8	6.052E-07	0.187	40.4185	21.60	4.468E-07	0.4
19	0.19	49.6075	6.0	6.211E-07	0.191	41.3025	21.80	4.626E-07	0.2
20	0.20	50.0132	6.2	6.274E-07	0.196	42.126	22.20	4.785E-07	0.4
21	0.21	50.4438	6.4	6.369E-07	0.198	42.974	22.40	4.912E-07	0.2
22	0.22	50.8606	6.6	6.433E-07	0.201	43.8162	22.80	5.070E-07	0.4
23	0.23	51.2838	6.8	6.528E-07	0.203	44.6676	23.00	5.229E-07	0.2
24	0.24	51.7148	7.0	6.623E-07	0.207	45.5194	23.40	5.387E-07	0.4
25	0.25	52.1955	7.2	6.718E-07	0.208	46.3404	23.80	5.545E-07	0.4
26	0.26	52.6669	7.4	6.813E-07	0.213	47.1449	24.00	5.704E-07	0.2
27	0.27	53.1465	7.7	6.908E-07	0.215	47.9597	24.40	5.862E-07	0.4
28	0.28	53.6338	7.9	7.035E-07	0.218	48.793	24.80	6.021E-07	0.4
29	0.29	53.978	8.1	7.098E-07	0.222	49.6253	25.20	6.211E-07	0.4
30	0.30	54.0563	8.3	7.098E-07	0.223	50.4021	25.60	6.369E-07	0.4
31	0.31	54.1413	8.5	7.130E-07	0.225	51.1868	26.00	6.528E-07	0.4
32	0.32	54.2354	8.8	7.130E-07	0.224	51.9636	26.40	6.686E-07	0.4
33	0.33	54.3587	9.0	7.162E-07	0.226	52.7724	26.80	6.845E-07	0.4
34	0.34	54.4693	9.2	7.193E-07	0.226	53.5507	27.20	7.003E-07	0.4
35	0.35	54.5894	9.4	7.225E-07	0.227	54.3214	27.60	7.162E-07	0.4
36	0.36	54.7391	9.7	7.257E-07	0.228	55.1256	28.20	7.320E-07	0.6
37	0.37	54.8763	9.9	7.288E-07	0.229	55.899	28.60	7.510E-07	0.4
38	0.38	54.7529	10.1	7.257E-07	0.201	56.6514	29.00	7.669E-07	0.4
39	0.39	54.4357	10.4	7.193E-07	0.3	57.3621	29.60	7.827E-07	0.6
40	0.40	54.1702	10.6	7.130E-07	0.2	58.0759	30.00	7.985E-07	0.4
41	0.41	53.8948	10.8	7.066E-07	0.2	58.7458	30.60	8.112E-07	0.6
42	0.42	53.6324	11.0	7.003E-07	0.2	59.418	31.00	8.271E-07	0.4
43	0.43	53.4102	11.3	6.971E-07	0.3	60.1093	31.60	8.429E-07	0.6
44	0.44	53.1749	11.5	6.908E-07	0.2	60.7647	32.20	8.556E-07	0.6
45	0.45	52.9528	11.7	6.876E-07	0.2	61.4077	32.60	8.714E-07	0.4
46	0.46	52.7414	11.9	6.845E-07	0.2	62.0545	33.20	8.873E-07	0.6
47	0.47	52.2429	12.1	6.718E-07	0.2	62.6798	33.80	8.999E-07	0.6
48	0.48	51.5055	12.3	6.591E-07	0.2	63.2364	34.40	9.126E-07	0.6
49	0.49	50.801	12.5	6.433E-07	0.2	63.7734	35.00	9.253E-07	0.6
50	0.50	50.1261	12.7	6.306E-07	0.2	64.2995	35.60	9.380E-07	0.6
51	0.51	49.5104	12.9	6.179E-07	0.2	64.8478	36.20	9.506E-07	0.6
52	0.52	48.8886	13.1	6.052E-07	0.2	65.3548	36.80	9.633E-07	0.6
53	0.53	48.2923	13.3	5.926E-07	0.2	65.8442	37.40	9.760E-07	0.6
54	0.54	47.7187	13.5	5.831E-07	0.2	66.3248	38.00	9.855E-07	0.6
55	0.55	47.1978	13.7	5.736E-07	0.2	66.8393	38.60	9.982E-07	0.6
56	0.56	46.6651	13.9	5.609E-07	0.2	67.3046	39.20	1.011E-06	0.6
57	0.57	46.1512	14.1	5.514E-07	0.2	67.7623	39.80	1.020E-06	0.6
58	0.58	45.6561	14.2	5.419E-07	0.1	68.204	40.40	1.030E-06	0.6
59	0.59	45.2122	14.4	5.355E-07	0.2	68.6987	41.20	1.043E-06	0.8
60	0.60	44.757	14.6	5.260E-07	0.2	69.1117	41.80	1.052E-06	0.6
61	0.61	44.3181	14.7	5.165E-07	0.1	69.5205	42.40	1.062E-06	0.6
62	0.62	43.8951	14.9	5.102E-07	0.2	69.9118	43.20	1.074E-06	0.8
63	0.63	43.4831	15.1	5.007E-07	0.2	70.3068	43.80	1.084E-06	0.6
64	0.64	43.1233	15.2	4.943E-07	0.1	70.738	44.40	1.093E-06	0.6
65	0.65	42.7369	15.4	4.880E-07	0.2	71.1107	45.20	1.103E-06	0.8
66	0.66	42.3615	15.5	4.817E-07	0.1	71.4773	45.80	1.112E-06	0.6
67	0.67	41.9963	15.7	4.753E-07	0.2	71.8381	46.60	1.122E-06	0.8
68	0.68	41.6387	15.8	4.690E-07	0.1	72.2042	47.20	1.128E-06	0.6
69	0.69	41.2926	16.0	4.626E-07	0.2	72.554	48.00	1.138E-06	0.8
70	0.70	40.8097	16.1	4.531E-07	0.1	72.902	48.60	1.147E-06	0.6
71	0.71	40.2767	16.3	4.436E-07	0.2	73.178	49.40	1.153E-06	0.8
72	0.72	39.7598	16.4	4.341E-07	0.1	73.4479	50.20	1.160E-06	0.8
73	0.73	39.2582	16.5	4.246E-07	0.1	73.712	50.80	1.166E-06	0.6
74	0.74	38.7709	16.7	4.183E-07	0.2	73.9705	51.60	1.172E-06	0.8
75	0.75	38.3443	16.8	4.088E-07	0.1	74.2896	52.40	1.182E-06	0.8
76	0.76	37.8831	16.9	4.024E-07	0.1	74.5386	53.00	1.188E-06	0.6
77	0.77	37.4341	17.1	3.961E-07	0.2	74.7826	53.80	1.195E-06	0.8
78	0.78	36.9993	17.2	3.866E-07	0.1	75.0103	54.60	1.201E-06	0.8
79	0.79	36.573	17.3	3.803E-07	0.1	75.2448	55.40	1.207E-06	0.8
80	0.80	36.1572	17.4	3.739E-07	0.1	75.4749	56.20	1.214E-06	0.8
81	0.81	35.7516	17.6	3.676E-07	0.2	75.7006	56.80	1.217E-06	0.6
82	0.82	35.4065	17.7	3.612E-07	0.1	75.9916	57.60	1.226E-06	0.8
83	0.83	35.019	17.8	3.549E-07	0.1	76.2101	58.40	1.233E-06	0.8
84	0.84	34.6404	17.9	3.486E-07	0.1	76.4248	59.20	1.236E-06	0.8
85	0.85	34.2702	18.0	3.422E-07	0.1	76.6356	60.00	1.242E-06	0.8
86	0.86	33.9278	18.1	3.359E-07	0.1	76.7974	60.80	1.245E-06	0.8
87	0.87	33.595	18.2	3.327E-07	0.1	76.9499	61.60	1.252E-06	0.8
88	0.88	33.2727	18.3	3.264E-07	0.1	77.0847	62.40	1.255E-06	0.8
89	0.89	33.0128	18.4	3.232E-07	0.1	77.3118	63.20	1.261E-06	0.8
90	0.90	32.6979	18.5	3.169E-07	0.1	77.4561	64.00	1.264E-06	0.8
91	0.91	32.3889	18.6	3.132E-07	0.1	77.5974	64.80	1.268E-06	0.8
92	0.92	32.0855	18.7	3.085E-07	0.1	77.7358	65.60	1.271E-06	0.8
93	0.93	31.7875	18.8	3.040E-07	0.1	77.8715	66.40	1.274E-06	0.8
94	0.94	31.4948	18.9	2.995E-07	0.1	78.0045	67.20	1.277E-06	0.8
95	0.95	31.2072	19.0	2.951E-07	0.1	78.1349	68.00	1.280E-06	0.8
96	0.96	30.9201	19.1	2.908E-07	0.1	78.2779	68.80	1.287E-06	0.8
97	0.97	30.7087	19.2	2.876E-07	0.1	78.4871	69.60	1.290E-06	0.8
98	0.98	30.4349	19.3	2.835E-07	0.1	78.6111	70.40	1.293E-06	0.8
99	0.99	30.1657	19.4	2.795E-07	0.1	78.7326	71.20	1.296E-06	0.8
100	1.00	29.9007	19.5	2.756E-07	0.1	78.8519	72.00	1.299E-06	0.8
101	1.01	29.6401	19.6	2.718E-07	0.1	78.9688	72.80	1.302E-06	0.8
102	1.02	29.3835	19.6	2.680E-07	0	79.0836	73.60	1.306E-06	0.8
103	1.03	29.131	19.7	2.643E-07	0.1	79.1962	74.40	1.309E-06	0.8
104	1.04	28.8775	19.8	2.607E-07	0.1	79.3223	75.40	1.312E-06	1
105	1.05	28.6328	19.9	2.571E-07	0.1	79.4307	76.20	1.315E-06	0.8
106	1.06	28.3919	20.0	2.537E-07	0.1	79.537	77.00	1.318E-06	0.8
107	1.07	28.3132	20.1	2.526E-07	0.1	79.7156	77.80	1.325E-06	0.8
108	1.08	28.1819	20.1	2.507E-07	0	79.812	78.60	1.325E-06	0.8
109	1.09	28.0554	20.2	2.489E-07	0.1	79.8922	79.40	1.328E-06	0.8
110	1.10	27.9284	20.3	2.471E-07	0.1	79.9721	80.40	1.331E-06	1
111	1.11	27.7956	20.4	2.452E-07	0.1	80.0677	81.20	1.334E-06	0.8
112	1.12	27.6777	20.5	2.436E-07	0.1	80.1246	82.00	1.334E-06	0.8
113	1.13	27.5784	20.5	2.422E-07	0	80.1388	82.80	1.334E-06	0.8
114	1.14	27.4701	20.6	2.406E-07	0.1	80.1741	83.60	1.334E-06	0.8
115	1.15	27.3685	20.7	2.392E-07	0.1	80.1895	84.60	1.337E-06	1
116	1.16	27.258	20.8	2.377E-07	0.1	80.226	85.40	1.337E-06	0.8
117	1.17	27.2439	20.8	2.375E-07	0	80.3414	86.20	1.340E-06	0.8
118	1.18	27.131	20.9	2.359E-07	0.1	80.3799	87.00	1.340E-06	0.8
119	1.19	27.0257	21.0	2.344E-07	0.1	80.398	87.80	1.340E-06	0.8
120	1.20	26.9114	21.1	2.328E-07	0.1	80.4373	88.80	1.344E-06	1
121	1.21	26.805	21.1	2.314E-07	0	80.456	89.60	1.344E-06	0.8
122	1.22	26.6895	21.2	2.298E-07	0.1	80.4959	90.40	1.344E-06	0.8
123	1.23	26.5738	21.3	2.282E-07	0.1	80.5361	91.20	1.344E-06	0.8
124	1.24	26.4662	21.3	2.267E-07	0	80.5553	92.20	1.347E-06	1
125	1.25	26.3497	21.4	2.251E-07	0.1	80.5959	93.00	1.347E-06	0.8
126	1.26	26.2415	21.5	2.237E-07	0.1	80.6153	93.80	1.347E-06	0.8
127	1.27	26.1246	21.6	2.221E-07	0.1	80.6562	94.60	1.350E-06	0.8
128	1.28	26.1071	21.6	2.218E-07	0	80.7979	95.60	1.353E-06	1
129	1.29	25.9893	21.7	2.202E-07	0.1	80.8399	96.40	1.353E-06	0.8
130	1.30	25.8805	21.8	2.187E-07	0.1	80.8602	97.20	1.353E-06	0.8
131	1.31	25.7625	21.8	2.172E-07	0	80.9022	98.20	1.356E-06	1
132	1.32	25.6447	21.9	2.156E-07	0.1	80.9442	99.00	1.356E-06	0.8
133	1.33	25.527	22.0	2.140E-07	0.1	80.9861	99.80	1.356E-06	0.8
134	1.34	25.4187	22.0	2.125E-07	0	81.006	100.60	1.356E-06	0.8
135	1.35	25.3012	22.1	2.110E-07	0.1	81.0478	101.60	1.359E-06	1
136	1.36	25.184	22.2	2.094E-07	0.1	81.0894	102.40	1.359E-06	0.8
137	1.37	25.0671	22.2	2.078E-07	0	81.1309	103.20	1.363E-06	0.8
138	1.38	24.9505	22.3	2.063E-07	0.1	81.1722	104.20	1.363E-06	1
139	1.39	24.8342	22.4	2.048E-07	0.1	81.2134	105.00	1.363E-06	0.8
140	1.40	24.8376	22.4	2.048E-07	0	81.3656	105.80	1.369E-06	0.8
141	1.41	24.7308	22.5	2.034E-07	0.1	81.3851	106.60	1.369E-06	0.8
142	1.42	24.6143	22.6	2.019E-07	0.1	81.4269	107.60	1.369E-06	1
143	1.43	24.4983	22.6	2.004E-07	0	81.4685	108.40	1.369E-06	0.8
144	1.44	24.3828	22.7	1.988E-07	0.1	81.5098	109.20	1.372E-06	0.8
145	1.45	24.2677	22.8	1.974E-07	0.1	81.5508	110.20	1.372E-06	1
146	1.46	24.1531	22.8	1.959E-07	0	81.5916	111.00	1.372E-06	0.8
147	1.47	24.039	22.9	1.944E-07	0.1	81.6322	111.80	1.375E-06	0.8
148	1.48	23.9254	22.9	1.929E-07	0	81.6724	112.80	1.375E-06	1
149	1.49	23.8123	23.0	1.915E-07	0.1	81.7124	113.60	1.375E-06	0.8
150	1.50	23.6997	23.1	1.900E-07	0.1	81.752	114.40	1.378E-06	0.8
151	1.51	23.5877	23.1	1.886E-07	0	81.7914	115.40	1.378E-06	1
152	1.52	23.4941	23.2	1.874E-07	0.1	81.7961	116.20	1.378E-06	0.8
153	1.53	23.5467	23.2	1.880E-07	0	81.8851	117.00	1.382E-06	0.8
154	1.54	23.467	23.3	1.870E-07	0.1	81.863	118.00	1.382E-06	1
155	1.55	23.387	23.4	1.860E-07	0.1	81.8414	118.80	1.382E-06	0.8
156	1.56	23.3067	23.4	1.850E-07	0	81.8204	119.80	1.378E-06	1
157	1.57	23.2263	23.5	1.840E-07	0.1	81.7999	120.60	1.378E-06	0.8
158	1.58	23.1457	23.5	1.829E-07	0	81.7799	121.40	1.378E-06	0.8
159	1.59	23.0649	23.6	1.819E-07	0.1	81.7603	122.40	1.378E-06	1
160	1.60	22.9841	23.6	1.809E-07	0	81.7412	123.20	1.378E-06	0.8
161	1.61	22.8876	23.7	1.797E-07	0.1	81.7541	124.00	1.378E-06	0.8
162	1.62	22.807	23.8	1.787E-07	0.1	81.7355	125.00	1.378E-06	1
163	1.63	22.7263	23.8	1.777E-07	0	81.7174	125.80	1.375E-06	0.8
164	1.64	22.6457	23.9	1.767E-07	0.1	81.6996	126.60	1.375E-06	0.8
165	1.65	22.565	23.9	1.756E-07	0	81.6821	127.60	1.375E-06	1
166	1.66	22.4844	24.0	1.747E-07	0.1	81.665	128.40	1.375E-06	0.8
167	1.67	22.6938	24.0	1.773E-07	0	81.7527	129.20	1.378E-06	0.8
168	1.68	22.7798	24.1	1.783E-07	0.1	81.757	130.20	1.378E-06	1
169	1.69	22.8807	24.2	1.796E-07	0.1	81.7311	131.00	1.378E-06	0.8
170	1.70	22.9799	24.2	1.808E-07	0	81.7074	131.80	1.375E-06	0.8
171	1.71	23.0772	24.3	1.821E-07	0.1	81.6859	132.80	1.375E-06	1
172	1.72	23.156	24.3	1.831E-07	0	81.6991	133.60	1.375E-06	0.8
173	1.73	23.25	24.4	1.843E-07	0.1	81.6816	134.40	1.375E-06	0.8
174	1.74	23.3424	24.4	1.854E-07	0	81.6661	135.40	1.375E-06	1
175	1.75	23.4331	24.5	1.866E-07	0.1	81.6526	136.20	1.375E-06	0.8
176	1.76	23.5053	24.6	1.875E-07	0.1	81.6739	137.00	1.375E-06	0.8
177	1.77	23.5931	24.6	1.886E-07	0	81.664	138.00	1.375E-06	1
178	1.78	23.6794	24.7	1.897E-07	0.1	81.656	138.80	1.375E-06	0.8
179	1.79	23.7472	24.7	1.906E-07	0	81.6828	139.60	1.375E-06	0.8
180	1.80	23.8307	24.8	1.917E-07	0.1	81.6782	140.60	1.375E-06	1
181	1.81	24.0862	24.9	1.950E-07	0.1	81.7934	141.40	1.378E-06	0.8
182	1.82	24.1496	24.9	1.958E-07	0	81.827	142.20	1.378E-06	0.8
183	1.83	24.23	25.0	1.968E-07	0.1	81.8286	143.20	1.378E-06	1
184	1.84	24.3091	25.0	1.979E-07	0	81.8317	144.00	1.378E-06	0.8
185	1.85	24.3687	25.1	1.987E-07	0.1	81.8702	145.00	1.382E-06	1
186	1.86	24.4454	25.2	1.997E-07	0.1	81.8763	145.80	1.382E-06	0.8
187	1.87	24.5026	25.2	2.004E-07	0	81.9178	146.60	1.382E-06	0.8
188	1.88	24.5771	25.3	2.014E-07	0.1	81.9268	147.60	1.382E-06	1
189	1.89	24.6505	25.4	2.024E-07	0.1	81.9371	148.40	1.382E-06	0.8
190	1.90	24.7043	25.4	2.031E-07	0	81.983	149.20	1.385E-06	0.8
191	1.91	24.7755	25.5	2.040E-07	0.1	81.996	150.20	1.385E-06	1
192	1.92	24.8272	25.5	2.047E-07	0	82.0445	151.00	1.385E-06	0.8
193	1.93	25.0807	25.6	2.080E-07	0.1	82.1782	151.80	1.388E-06	0.8
194	1.94	25.1301	25.7	2.087E-07	0.1	82.2311	152.80	1.391E-06	1
195	1.95	25.1982	25.7	2.096E-07	0	82.2505	153.60	1.391E-06	0.8
196	1.96	25.2458	25.8	2.102E-07	0.1	82.3059	154.60	1.394E-06	1
197	1.97	25.3121	25.9	2.111E-07	0.1	82.3276	155.40	1.394E-06	0.8
198	1.98	25.3578	25.9	2.117E-07	0	82.3854	156.20	1.394E-06	0.8
199	1.99	25.4224	26.0	2.126E-07	0.1	82.4092	157.20	1.394E-06	1
200	2.00	25.4663	26.1	2.132E-07	0.1	82.4693	158.00	1.397E-06	0.8
201	2.01	25.5293	26.1	2.140E-07	0	82.4953	159.00	1.397E-06	1
202	2.02	25.5716	26.2	2.146E-07	0.1	82.5576	159.80	1.401E-06	0.8
203	2.03	25.633	26.3	2.154E-07	0.1	82.5856	160.60	1.401E-06	0.8
204	2.04	25.6736	26.3	2.160E-07	0	82.65	161.60	1.401E-06	1
205	2.05	25.9462	26.4	2.196E-07	0.1	82.8024	162.40	1.407E-06	0.8
206	2.06	25.9849	26.5	2.202E-07	0.1	82.871	163.40	1.407E-06	1
207	2.07	26.0442	26.6	2.210E-07	0.1	82.9046	164.20	1.410E-06	0.8
208	2.08	26.0815	26.6	2.215E-07	0	82.9751	165.20	1.410E-06	1
209	2.09	26.1393	26.7	2.223E-07	0.1	83.0105	166.00	1.413E-06	0.8
210	2.10	26.1752	26.8	2.227E-07	0.1	83.0828	167.00	1.413E-06	1
211	2.11	26.2318	26.8	2.235E-07	0	83.12	167.80	1.413E-06	0.8
212	2.12	26.2663	26.9	2.240E-07	0.1	83.1942	168.60	1.416E-06	0.8
213	2.13	26.3002	27.0	2.244E-07	0.1	83.2691	169.60	1.420E-06	1
214	2.14	26.355	27.0	2.252E-07	0	83.3086	170.40	1.420E-06	0.8
215	2.15	26.3876	27.1	2.257E-07	0.1	83.3853	171.40	1.423E-06	1
216	2.16	26.4412	27.2	2.264E-07	0.1	83.4264	172.20	1.423E-06	0.8
217	2.17	26.6955	27.3	2.299E-07	0.1	83.6279	173.20	1.429E-06	1
218	2.18	26.726	27.3	2.303E-07	0	83.7092	174.00	1.432E-06	0.8
219	2.19	26.7788	27.4	2.310E-07	0.1	83.7543	175.00	1.432E-06	1
220	2.20	26.8081	27.5	2.314E-07	0.1	83.8372	175.80	1.435E-06	0.8
221	2.21	26.8598	27.6	2.321E-07	0.1	83.8836	176.80	1.435E-06	1
222	2.22	26.888	27.6	2.325E-07	0	83.968	177.60	1.439E-06	0.8
223	2.23	26.9158	27.7	2.329E-07	0.1	84.0531	178.60	1.442E-06	1
224	2.24	26.966	27.8	2.336E-07	0.1	84.1015	179.60	1.442E-06	1
225	2.25	26.9927	27.8	2.340E-07	0	84.1879	180.40	1.445E-06	0.8
226	2.26	27.042	27.9	2.347E-07	0.1	84.2376	181.40	1.445E-06	1
227	2.27	27.0677	28.0	2.350E-07	0.1	84.3255	182.20	1.448E-06	0.8
228	2.28	27.5509	28.1	2.418E-07	0.1	84.5002	183.20	1.451E-06	1
229	2.29	27.8354	28.1	2.458E-07	0	84.5146	184.00	1.454E-06	0.8
230	2.30	28.0978	28.2	2.495E-07	0.1	84.5695	185.00	1.454E-06	1
231	2.31	28.3625	28.3	2.533E-07	0.1	84.6268	186.00	1.458E-06	1
232	2.32	28.6538	28.4	2.574E-07	0.1	84.6484	186.80	1.458E-06	0.8
233	2.33	28.9232	28.5	2.613E-07	0.1	84.7106	187.80	1.458E-06	1
234	2.34	29.1949	28.5	2.653E-07	0	84.7752	188.60	1.461E-06	0.8
235	2.35	29.469	28.6	2.693E-07	0.1	84.8422	189.60	1.461E-06	1
236	2.36	29.7703	28.7	2.737E-07	0.1	84.8732	190.60	1.464E-06	1
237	2.37	30.3124	28.8	2.817E-07	0.1	85.0693	191.40	1.467E-06	0.8
238	2.38	30.5976	28.9	2.860E-07	0.1	85.1459	192.40	1.470E-06	1
239	2.39	30.9238	29.0	2.908E-07	0.1	85.1694	193.20	1.470E-06	0.8
240	2.40	31.2326	29.1	2.955E-07	0.1	85.2273	194.20	1.473E-06	1
241	2.41	31.5438	29.2	3.002E-07	0.1	85.2888	195.20	1.473E-06	1
242	2.42	31.8576	29.3	3.050E-07	0.1	85.3539	196.00	1.477E-06	0.8
243	2.43	32.1741	29.4	3.099E-07	0.1	85.4225	197.00	1.477E-06	1
244	2.44	32.5333	29.5	3.154E-07	0.1	85.4366	198.00	1.480E-06	1
245	2.45	32.8555	29.6	3.200E-07	0.1	85.5129	198.80	1.480E-06	0.8
246	2.46	33.4519	29.7	3.296E-07	0.1	85.7175	199.80	1.486E-06	1
247	2.47	33.783	29.8	3.359E-07	0.1	85.8038	200.80	1.489E-06	1
248	2.48	34.1171	29.9	3.391E-07	0.1	85.8939	201.60	1.493E-06	0.8
249	2.49	34.4972	30.0	3.454E-07	0.1	85.928	202.60	1.493E-06	1

Comments or Notes Pertaining to Analysis:

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

SCG1C

Time @ a = 0.75 t_w (years):		a @ 0.75 t_w (mm):		2c @ 0.75 t_w (mm):	

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface			
Time Block n°	Time (Year)	K_{tot} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{tot} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)
0	0.0		3.0		0.00		18.00		0.00
1									
2									

Comments or Notes Pertaining to Analysis:

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

SCG1D

Time @ a = 0.75 t_w (years):		a @ 0.75 t_w (mm):		2c @ 0.75 t_w (mm):	

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface			
Time Block n°	Time (Year)	K_{tot} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{tot} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)
0	0.0		3.0		0.00		18.00		0.00
1									
2									

Comments or Notes Pertaining to Analysis:

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

Participating Organization:	CRIEPI	Analyst Identification:		Reporting Date:	Oct. 21st

Codes and Procedures Used in Analysis (add space as needed)

	Name and Version #	List any code or analysis limitations for these problems (e.g., utilizes flat-plate K-solutions)	List any analysis assumptions	Briefly describe the approach that your code or analysis uses to determine output variables (e.g., K_{mat}, Δa)	Briefly describe the approach used to incorporate WRS within the evaluation	Provide any other comments related to your code capabilities or evaluation approach that affects your results
Task 1: PWSCC Code(s)	PRODESTRIAN 2.1	Stress intensity Factors were calculated by uni-xreal weight function method and GD_G1 gov.in in ASME Code Sec. 3k-2019.				
Task 1 (SCC/GI); Advanced FE Crack Growth Code(s)						

Quantitative Outputs (add space as needed)

SCG Task: Task 1: PWSCC Crack Growth

Analysis ID:

SCG1A

Time @ a = 0.75 t_w (years): 0 | + @ 0.75 t_w (years): | 2c @ 0.75 t_w (mm): 0

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a = 0.75 t_w

Time Block n°	Time (Year)	Depth K_{mat} (MPa√m)	Depth a (mm)	Depth da/dt (mm/s)	Depth Δa (mm)	Surface K_{mat} (MPa√m)	Surface 2c (mm)	Surface dc/dt (mm/s)	Surface Δc (mm)
0	0.0000	17.2331	3	1.1412E-07	0	20.3868	18	1.4932E-07	0
1	0.0833	16.0083	3.30011	1.0142E-07	0.300114	21.5034	18.7854	1.6262E-07	0.785464
2	0.1667	15.0415	3.56683	9.1801E-08	0.266721	22.3386	19.8406	1.7285E-07	1.05535
…	0.2500	14.1979	3.80625	8.3702E-08	0.241419	22.979	20.5499	1.8084E-07	0.909124
	0.3333	13.4402	4.02838	7.6839E-08	0.222123	23.4744	21.0011	1.8713E-07	0.951186
	0.4167	12.7481	4.23	7.0461E-08	0.201628	23.8583	22.4853	1.9204E-07	0.984204
	0.5000	12.1131	4.4153	6.4621E-08	0.185299	24.1549	23.4954	1.9587E-07	1.01008
	0.5833	11.5238	4.58603	5.9942E-08	0.17073	24.3817	24.5256	1.9883E-07	1.03025
	0.6667	10.9755	4.74367	5.5444E-08	0.157637	24.5523	25.5714	2.0106E-07	1.04577
	0.7500	10.4635	4.89048	5.1350E-08	0.145808	24.6768	26.6289	2.0289E-07	1.0575
	0.8333	9.98131	5.02456	4.7630E-08	0.13509	24.7635	27.695	2.0383E-07	1.0661
	0.9167	9.48929	5.14982	4.3929E-08	0.125258	24.8184	28.7671	2.0456E-07	1.07209
	1.0000	9.00979	5.26534	4.0431E-08	0.115528	24.8469	29.843	2.0490E-07	1.0759
	1.0833	8.5521	5.37167	3.7196E-08	0.106328	24.8468	30.9207	2.0493E-07	1.07774
	1.1667	8.11894	5.46949	3.4227E-08	0.0978183	24.8277	31.9986	2.0468E-07	1.07787
	1.2500	7.71092	5.5595	3.1515E-08	0.0900125	24.7909	33.0751	2.0419E-07	1.07654
	1.3333	7.32767	5.64239	2.9040E-08	0.0828847	24.7392	34.1491	2.0351E-07	1.07390
	1.4167	6.9683	5.71878	2.6803E-08	0.0763923	24.6752	35.2195	2.0267E-07	1.07042
	1.5000	6.63166	5.78927	2.4791E-08	0.0704967	24.6008	36.2855	2.0178E-07	1.06598
	1.5833	6.31947	5.85438	2.2993E-08	0.065178	24.5178	37.3464	2.0081E-07	1.06085
	1.6667	6.0214	5.91462	2.1219E-08	0.0602369	24.4278	38.4015	1.9943E-07	1.05513
	1.7500	5.74513	5.97042	1.9681E-08	0.0557981	24.3321	39.4504	1.9818E-07	1.04894
	1.8333	5.49185	6.02218	1.8318E-08	0.0517598	24.2317	40.4928	1.9687E-07	1.04237
	1.9167	5.27422	6.07033	1.7164E-08	0.0481564	24.1277	41.5283	1.9552E-07	1.03549
	2.0000	5.07801	6.11547	1.6154E-08	0.0451386	24.0217	42.5567	1.9416E-07	1.0284
	2.0833	4.89789	6.15796	1.5247E-08	0.0424628	23.9143	43.5778	1.9276E-07	1.02117
	2.1667	4.73096	6.19805	1.4424E-08	0.0400977	23.8061	44.5917	1.9137E-07	1.01388
	2.2500	4.57525	6.23599	1.3672E-08	0.0379336	23.6976	45.5983	1.8998E-07	1.00655
	2.3333	4.42929	6.27194	1.2981E-08	0.0359557	23.5891	46.5975	1.8859E-07	0.99922
	2.4167	4.29197	6.30608	1.2342E-08	0.0341381	23.481	47.5894	1.8720E-07	0.991913
	2.5000	4.16238	6.33854	1.1750E-08	0.0324605	23.3733	48.5741	1.8583E-07	0.984645
	2.5833	4.03976	6.36945	1.1203E-08	0.0309095	23.2663	49.5515	1.8447E-07	0.977432
	2.6667	3.92349	6.39891	1.0691E-08	0.0294627	23.1602	50.5218	1.8313E-07	0.970284
	2.7500	3.81302	6.42703	1.0214E-08	0.0281117	23.055	51.485	1.8180E-07	0.963211
	2.8333	3.7079	6.45389	9.7755E-09	0.0268618	22.9508	52.4412	1.8049E-07	0.95622
	2.9167	3.60771	6.47958	9.3498E-09	0.0256867	22.8478	53.3905	1.7919E-07	0.949317
	3.0000	3.51058	6.50416	8.9553E-09	0.0245852	22.7458	54.333	1.7792E-07	0.942505
	3.0833	3.42071	6.52771	8.5852E-09	0.0235509	22.6452	55.2688	1.7666E-07	0.935788
	3.1667	3.33329	6.55029	8.2371E-09	0.0225782	22.5457	56.198	1.7542E-07	0.929168
	3.2500	3.24958	6.57195	7.9087E-09	0.0216621	22.4475	57.1206	1.7420E-07	0.922647
	3.3333	3.16934	6.59275	7.5859E-09	0.0207983	22.3506	58.0368	1.7299E-07	0.916227
	3.4167	3.09235	6.61273	7.3053E-09	0.0199827	22.255	58.9468	1.7181E-07	0.909907
	3.5000	3.01842	6.63195	7.0279E-09	0.0192117	22.1607	59.8504	1.7063E-07	0.903687
	3.5833	2.94738	6.65043	6.7651E-09	0.0184821	22.0677	60.748	1.6950E-07	0.897568
	3.6667	2.87906	6.66822	6.5160E-09	0.0177911	21.976	61.6396	1.6838E-07	0.891548
	3.7500	2.8133	6.68535	6.2790E-09	0.0171358	21.8856	62.5252	1.6727E-07	0.885628
	3.8333	2.74998	6.70187	6.0549E-09	0.0165139	21.7964	63.405	1.6618E-07	0.879805
	3.9167	2.68895	6.71779	5.8413E-09	0.0159232	21.7086	64.2791	1.6511E-07	0.87408
	4.0000	2.63011	6.73315	5.6382E-09	0.0153616	21.622	65.1475	1.6406E-07	0.86845
	4.0833	2.57334	6.74798	5.4447E-09	0.0148273	21.5367	66.0104	1.6303E-07	0.862914
	4.1667	2.51854	6.7623	5.2604E-09	0.0143186	21.4526	66.8679	1.6201E-07	0.857471
	4.2500	2.46561	6.77613	5.0846E-09	0.0138338	21.3697	67.72	1.6101E-07	0.852119
	4.3333	2.41446	6.7895	4.9168E-09	0.013372	21.288	68.5669	1.6002E-07	0.846857
	4.4167	2.36501	6.80243	4.7567E-09	0.0129005	21.2075	69.4086	1.5906E-07	0.841683
	4.5000	2.31717	6.81484	4.6037E-09	0.0124594	21.1281	70.2452	1.5810E-07	0.836595
	4.5833	2.27088	6.82705	4.4575E-09	0.012107	21.0499	71.0768	1.5717E-07	0.831593
	4.6667	2.22606	6.83877	4.3179E-09	0.0117724	20.9728	71.9034	1.5625E-07	0.826673
	4.7500	2.18265	6.85013	4.1836E-09	0.0114544	20.8968	72.7253	1.5534E-07	0.821834
	4.8333	2.14059	6.86113	4.0554E-09	0.0111022	20.8219	73.5423	1.5446E-07	0.817076
	4.9167	2.09981	6.8718	3.9325E-09	0.0106649	20.7481	74.3547	1.5359E-07	0.812395
	5.0000	2.06027	6.88214	3.8147E-09	0.0103417	20.6753	75.1625	1.5273E-07	0.807791
	5.0833	2.02191	6.89217	3.7016E-09	0.0100319	20.6036	75.9658	1.5187E-07	0.803262
	5.1667	1.98468	6.9019	3.5932E-09	0.00973472	20.5328	76.7646	1.5104E-07	0.798807
	5.2500	1.94854	6.91135	3.4891E-09	0.00944952	20.4631	77.559	1.5022E-07	0.794423
	5.3333	1.91344	6.92053	3.3891E-09	0.0091757	20.3943	78.3491	1.4941E-07	0.790108
	5.4167	1.87934	6.92944	3.2929E-09	0.00891267	20.3264	79.135	1.4862E-07	0.785864
	5.5000	1.8462	6.9381	3.2005E-09	0.0086599	20.2595	79.9167	1.4783E-07	0.781686
	5.5833	1.81399	6.94652	3.1118E-09	0.00841897	20.1936	80.6942	1.4706E-07	0.777573
	5.6667	1.78266	6.9547	3.0261E-09	0.0081831	20.1285	81.4678	1.4631E-07	0.773526
	5.7500	1.75218	6.96266	2.9438E-09	0.00795916	20.0643	82.2373	1.4556E-07	0.769541
	5.8333	1.72253	6.9704	2.8645E-09	0.00774162	20.0009	83.0029	1.4483E-07	0.765617
	5.9167	1.69367	6.97793	2.7881E-09	0.00753307	19.9385	83.7647	1.4410E-07	0.761754
	6.0000	1.66557	6.98527	2.7144E-09	0.00733214	19.8768	84.5226	1.4339E-07	0.757949
	6.0833	1.63821	6.9924	2.6434E-09	0.00713848	19.816	85.2768	1.4269E-07	0.754203
	6.1667	1.61155	6.99936	2.5748E-09	0.00695176	19.7559	86.0273	1.4200E-07	0.750512
	6.2500	1.58558	7.00613	2.5086E-09	0.00677166	19.6966	86.7742	1.4132E-07	0.746877
	6.3333	1.56026	7.01273	2.4451E-09	0.00659788	19.6382	87.5175	1.4065E-07	0.743296
	6.4167	1.53558	7.01916	2.3832E-09	0.00643014	19.5804	88.2573	1.3998E-07	0.739767
	6.5000	1.51152	7.02542	2.3240E-09	0.00626817	19.5234	88.9936	1.3933E-07	0.73629
	6.5833	1.48804	7.03154	2.2665E-09	0.00611173	19.4672	89.7264	1.3869E-07	0.732864
	6.6667	1.46514	7.0375	2.2109E-09	0.00596057	19.4118	90.4559	1.3806E-07	0.729487
	6.7500	1.44279	7.04331	2.1572E-09	0.00581411	19.3567	91.1821	1.3744E-07	0.726159
	6.8333	1.42098	7.04898	2.1053E-09	0.00567202	19.3026	91.905	1.3682E-07	0.722878

SCG1B

Time @ a = 0.75 t_w (years): 2.0007 | + @ 0.75 t_w (years): 0.5 | 2c @ 0.75 t_w (mm): 217.2

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a = 0.75 t_w

Time Block n°	Time (Year)	Depth K_{mat} (MPa√m)	Depth a (mm)	Depth da/dt (mm/s)	Depth Δa (mm)	Surface K_{mat} (MPa√m)	Surface 2c (mm)	Surface dc/dt (mm/s)	Surface Δc (mm)
0	0.0000	36.1420	3	4.0900E-07	0	29.2835	18	2.1072E-07	0
1	0.0833	42.8734	4.06998	4.9054E-07	1.06998	32.0231	19.1083	3.0755E-07	1.10834
2	0.1667	47.5537	5.36003	5.7897E-07	1.29004	38.743	20.726	4.1714E-07	1.61761
…	0.2500	51.5508	6.88257	6.5807E-07	1.52265	45.4047	22.32	5.3770E-07	2.19403
	0.3333	54.3351	8.6152	7.1655E-07	1.73253	51.9378	25.7481	6.6673E-07	2.8281
	0.4167	54.7682	10.4999	7.2581E-07	1.88466	58.226	29.2549	8.0051E-07	3.50677
	0.5000	51.2035	12.4086	6.5117E-07	1.90875	63.9506	33.4652	9.3010E-07	4.21038
	0.5833	45.7289	14.1225	5.4389E-07	1.71389	68.6305	38.3672	1.0413E-06	4.89199
	0.6667	40.9404	15.5527	4.5564E-07	1.43024	72.2133	43.8344	1.1297E-06	5.47723
	0.7500	37.2993	16.751	3.9255E-07	1.19825	74.9543	49.7763	1.1991E-06	5.94164
	0.8333	34.3173	17.7833	3.4309E-07	1.03234	77.0775	56.0831	1.2536E-06	6.3068
	0.9167	31.3373	18.6868	2.9704E-07	0.903493	78.7089	62.6781	1.2966E-06	6.59505
	1.0000	28.7784	19.4681	2.5922E-07	0.781273	79.8894	69.4979	1.3279E-06	6.8198
	1.0833	27.1776	20.1498	2.3654E-07	0.681728	80.7022	76.4821	1.3495E-06	6.9842
	1.1667	25.8644	20.7719	2.1852E-07	0.622372	81.2789	83.5804	1.3650E-06	7.09824
	1.2500	24.796	21.3466	2.0426E-07	0.5748	81.6748	90.76	1.3757E-06	7.17957
	1.3333	23.9988	21.8838	1.9358E-07	0.537175	81.9356	97.9956	1.3827E-06	7.23561
	1.4167	23.4383	22.3936	1.8606E-07	0.50981	82.1044	105.268	1.3872E-06	7.27261
	1.5000	23.0942	22.8845	1.823E-07	0.4909893	82.2163	112.565	1.3902E-06	7.2966
	1.5833	22.8499	23.3639	1.7922E-07	0.479411	82.3008	119.877	1.3926E-06	7.31202
	1.6667	22.6719	23.8352	1.7699E-07	0.471325	82.3728	127.202	1.3945E-06	7.32454
	1.7500	22.608	24.3007	1.7619E-07	0.4654641	82.4418	134.537	1.3964E-06	7.3348
	1.8333	22.709	24.764	1.7749E-07	0.463365	82.52	141.881	1.3985E-06	7.34462
	1.9167	22.9028	25.2307	1.7988E-07	0.4666862	82.6234	149.237	1.4013E-06	7.35578
	2.0000	23.1715	25.7036	1.8327E-07	0.47307	82.7562	156.608	1.4054E-06	7.37053
	2.0833	23.5207	26.1858	1.8769E-07	0.481982	82.932	163.998	1.4097E-06	7.38993
	2.1667	24.094	26.6828	2.0293E-07	0.4975117	83.1552	171.413	1.4158E-06	7.41462
	2.2500	26.1235	27.2164	2.2204E-07	0.533641	83.4837	178.859	1.4247E-06	7.44658
	2.3333	27.5349	27.8033	2.4154E-07	0.5839322	83.9429	186.352	1.4373E-06	7.49371
	2.4167	29.1148	28.4356	2.6497E-07	0.635209	84.5158	193.912	1.4530E-06	7.55976
	2.5000	31.0224	29.1301	2.9232E-07	0.694022	85.1972	201.555	1.4718E-06	7.64248
	2.5833	34.2494	29.8988	3.4247E-07	0.76875	85.9853	209.296	1.4936E-06	7.74131
	2.6667	38.0272	30.7995	4.0498E-07	0.900633	86.9449	217.152	1.5204E-06	7.8582

SCG1C

Time @ a = 0.75 t_w (years): | + @ 0.75 t_w (years): | 2c @ 0.75 t_w (mm):

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a = 0.75 t_w

Time Block n°	Time (Year)	Depth K_{mat} (MPa√m)	Depth a (mm)	Depth da/dt (mm/s)	Depth Δa (mm)	Surface K_{mat} (MPa√m)	Surface 2c (mm)	Surface dc/dt (mm/s)	Surface Δc (mm)
0	0.0		3.0		0.00		18.00		0.00
1	…								
2	…								
…	…								

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

SCG1D

Time @ a = 0.75 t_w (years): | + @ 0.75 t_w (years): | 2c @ 0.75 t_w (mm):

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a = 0.75 t_w

Time Block n°	Time (Year)	Depth K_{mat} (MPa√m)	Depth a (mm)	Depth da/dt (mm/s)	Depth Δa (mm)	Surface K_{mat} (MPa√m)	Surface 2c (mm)	Surface dc/dt (mm/s)	Surface Δc (mm)
0	0.0		3.0		0.00		18.00		0.00
1	…								
2	…								
…	…								

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

Comments or Notes Pertaining to Analysis

Comments or Notes Pertaining to Analysis

Comments or Notes Pertaining to Analysis

Comments or Notes Pertaining to Analysis

Participating Organization:	GRS	Analyst Identification:	Klaus Hackmann	Reporting Date:	01.09.2022

Codes and Procedures Used in Analysis (add space as needed)

	Name and Version #	List any code or analysis limitations for these problems (e.g., utilizes flat-plate K-solutions)	List any analysis assumptions	Briefly describe the approach that your code or analysis uses to determine output variables (e.g., K_{Ic}, Δc)	Briefly describe the approach used to incorporate WRS within the evaluation	Provide any other comments related to your code capabilities or evaluation approach that affects your results
Task 1: PWSCC Code(s)	PROST v4.8.3		Semi-elliptical crack geometry	ASME BPVC 2017 K-solutions for semi-elliptical cracks	Polynomial coefficients	
Task 1 (SCG1D): Advanced FE Crack Growth Code(s)						

Quantitative Outputs (add space as needed)

SCG Task: Task 1: PWSCC Crack Growth

Analysis ID:

SCG1A

Time @ a = 0.75 t_w (years): 9.9645039 | a @ 0.75 t_w (mm): | 2c @ 0.75 t_w (mm): 90.59

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface			
Time Block n°	Time (Year)	K_{Ic} (MPa·im)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{Ic} (MPa·im)	2c (mm)	dc/dt (mm/s)	Δc (mm)
0	0.00E+00	16.56231667	3	1.07633E-07	0.00	19.84366928	18.00	1.43731E-07	0.00
1	1.00E-01	11.90600853	4.312833755	6.34727E-08	1.31E+00	23.10478288	23.27	1.83349E-07	5.27E+00
2	1.00E+00	8.84673376	5.100662501	3.94655E-08	2.10E+00	23.71548715	29.39	1.91165E-07	1.12E+01
...	1.50E+00	8.84656898	5.606434463	2.61088E-08	2.61E+00	23.57993918	35.18	1.89410E-07	1.72E+01
	2.00E+00	5.47580568	5.950831843	1.83178E-08	2.95E+00	23.13014477	41.06	1.84082E-07	2.31E+01
	2.50E+00	4.49665838	6.196723342	1.33652E-08	3.20E+00	22.84132401	46.79	1.80013E-07	2.88E+01
	3.00E+00	3.75726435	6.378970981	1.00265E-08	3.38E+00	22.43046600	52.37	1.74863E-07	3.44E+01
	3.50E+00	3.16844956	6.515442832	7.63327E-09	3.52E+00	21.99443576	57.77	1.69456E-07	3.98E+01
	4.00E+00	2.713402468	6.62233784	5.95634E-09	3.62E+00	21.6050972	63.01	1.64633E-07	4.50E+01
	4.50E+00	2.354463928	6.705801927	4.74661E-09	3.71E+00	21.24779848	68.12	1.60346E-07	5.01E+01
	5.00E+00	2.066248682	6.773060032	3.85167E-09	3.77E+00	20.93024593	73.09	1.56529E-07	5.51E+01
	5.50E+00	1.831208311	6.827981072	3.17495E-09	3.83E+00	20.64016598	77.95	1.53118E-07	6.00E+01
	6.00E+00	1.636902519	6.873161965	2.65334E-09	3.87E+00	20.38506346	82.71	1.50057E-07	6.47E+01
	6.50E+00	1.474327726	6.911883704	2.24443E-09	3.91E+00	20.14983171	87.38	1.47296E-07	6.94E+01
	7.00E+00	1.336840727	6.944472866	1.91904E-09	3.94E+00	19.93527265	91.96	1.44794E-07	7.40E+01
	7.50E+00	1.219454962	6.972470178	1.65662E-09	3.97E+00	19.73879009	96.47	1.42518E-07	7.85E+01
	8.00E+00	1.11836898	6.996742375	1.44242E-09	4.00E+00	19.55817841	100.91	1.40437E-07	8.29E+01
	8.50E+00	1.030644001	7.017957906	1.2657E-09	4.02E+00	19.39156191	105.29	1.38528E-07	8.73E+01
	9.00E+00	0.953978941	7.036639286	1.11844E-09	4.04E+00	19.23734109	109.62	1.36769E-07	9.16E+01
	9.50E+00	0.883928899	7.053183247	9.88002E-10	4.05E+00	19.08027113	113.88	1.34987E-07	9.59E+01
	1.00E+01	0.819479187	7.067670212	8.6167E-10	4.07E+00	18.89597139	118.09	1.32907E-07	1.00E+02
	1.05E+01	0.747157931	7.080568374	7.56513E-10	4.08E+00	18.724466	122.23	1.31016E-07	1.04E+02
	1.10E+01	0.691410068	7.091512949	6.68242E-10	4.09E+00	18.56445998	126.32	1.29196E-07	1.08E+02
	1.15E+01	0.642060034	7.101402292	5.9358E-10	4.10E+00	18.41475117	130.35	1.27533E-07	1.12E+02
	1.20E+01	0.598573123	7.110209378	5.30002E-10	4.11E+00	18.27434446	134.33	1.25981E-07	1.16E+02
	1.25E+01	0.55894808	7.118091804	4.755E-10	4.12E+00	18.1423587	138.26	1.24528E-07	1.20E+02
	1.30E+01	0.522751234	7.12517932	4.28506E-10	4.13E+00	18.01802133	142.15	1.23165E-07	1.24E+02
	1.35E+01	0.492044096	7.13157544	3.8776E-10	4.13E+00	17.90062446	145.99	1.21884E-07	1.28E+02
	1.40E+01	0.463377219	7.1378823355	3.52251E-10	4.14E+00	17.78965162	149.80	1.20677E-07	1.32E+02
	1.45E+01	0.437371733	7.142663302	3.21157E-10	4.14E+00	17.6844863	153.57	1.19538E-07	1.36E+02
	1.50E+01	0.413706399	7.147486268	2.9388E-10	4.15E+00	17.58468286	157.31	1.18464E-07	1.39E+02
	1.55E+01	0.392107367	7.151905577	2.69653E-10	4.15E+00	17.48981853	161.01	1.17439E-07	1.43E+02
	1.60E+01	0.372339994	7.155967666	2.482338-10	4.16E+00	17.39951475	164.69	1.1647E-07	1.47E+02
	1.65E+01	0.354202283	7.159712424	2.2917E-10	4.16E+00	17.31343152	168.33	1.15553E-07	1.50E+02
	1.70E+01	0.337513678	7.163174276	2.12146E-10	4.16E+00	17.23126259	171.94	1.14674E-07	1.54E+02
	1.75E+01	0.322139905	7.166383063	1.96892E-10	4.17E+00	17.15273135	175.53	1.13839E-07	1.58E+02
	1.80E+01	0.307913247	7.169364755	1.8318E-10	4.17E+00	17.07758729	179.09	1.13043E-07	1.61E+02
	1.85E+01	0.294777705	7.172142043	1.70824E-10	4.17E+00	17.00560298	182.63	1.1228E-07	1.65E+02
	1.90E+01	0.28257756	7.174734627	1.5963E-10	4.17E+00	16.93657446	186.14	1.11552E-07	1.68E+02
	1.95E+01	0.271241159	7.177150619	1.49529E-10	4.18E+00	16.8703186	189.64	1.10854E-07	1.72E+02
	2.00E+01	0.260688224	7.17943488	1.4033E-10	4.18E+00	16.80662761	193.11	1.10186E-07	1.75E+02
	2.05E+01	0.25085144	7.181573306	1.3195E-10	4.18E+00	16.74538463	196.56	1.09544E-07	1.79E+02
	2.10E+01	0.241663256	7.183582062	1.2430BE-10	4.18E+00	16.68642968	199.99	1.0892E-07	1.82E+02
	2.15E+01	0.233074876	7.185477989	1.1731E-10	4.19E+00	16.62962934	203.40	1.08335E-07	1.85E+02
	2.20E+01	0.225028393	7.187268767	1.1090E-10	4.19E+00	16.57486057	206.79	1.07761E-07	1.89E+02
	2.25E+01	0.217487057	7.188963071	1.0501E-10	4.19E+00	16.52200983	210.16	1.0721E-07	1.92E+02
	2.30E+01	0.210404645	7.190568687	9.9596E-11	4.19E+00	16.47097213	213.52	1.06686E-07	1.96E+02
	2.35E+01	0.203748053	7.192092624	9.4602E-11	4.19E+00	16.42160024	216.86	1.06175E-07	1.99E+02
	2.40E+01	0.197481347	7.193541204	8.9992E-11	4.19E+00	16.37953098	220.19	1.05682E-07	2.02E+02
	2.45E+01	0.191577726	7.194920142	8.572526-11	4.19E+00	16.32779958	223.50	1.05206E-07	2.06E+02
	2.50E+01	0.185973041	7.196234204	8.1537E-11	4.20E+00	10.96850373	226.45	1.56663E-08	2.09E+02
	2.55E+01	0.178955012	7.197477194	7.6868Z2E-11	4.20E+00	10.94428132	228.20	1.54697E-08	2.10E+02
	2.60E+01	0.172612682	7.19864973	7.2155E-11	4.20E+00	10.93048306	229.94	1.52769E-08	2.12E+02
	2.65E+01	0.166710722	7.19975702	6.8627E-11	4.20E+00	10.91524161	231.67	1.52344E-08	2.14E+02
	2.70E+01	0.161155156	7.200806162	6.5005Z-11	4.20E+00	10.91597266	233.41	1.52403E-08	2.15E+02
	2.75E+01	0.155850038	7.201800016	6.1647E-11	4.20E+00	10.91669835	235.14	1.52462E-08	2.17E+02
	2.80E+01	0.150909664	7.202742947	5.8514E-11	4.20E+00	10.91741852	236.88	1.52521E-08	2.19E+02
	2.85E+01	0.146162163	7.203638493	5.5602E-11	4.20E+00	10.91813187	238.61	1.52578E-08	2.21E+02
	2.90E+01	0.141639298	7.204489887	5.288E-11	4.20E+00	10.91883896	240.35	1.52636E-08	2.22E+02
	2.95E+01	0.13737832	7.205300086	5.0353E-11	4.21E+00	10.9195392	242.08	1.52693E-08	2.24E+02
	3.00E+01	0.133298725	7.2060718	4.7982E-11	4.21E+00	10.92023236	243.82	1.52748E-08	2.26E+02
	3.05E+01	0.129413305	7.206807514	4.576395-11	4.21E+00	10.92091823	245.55	1.52804E-08	2.28E+02
	3.10E+01	0.125707851	7.207509516	4.3685E-11	4.21E+00	10.92159666	247.29	1.52859E-08	2.29E+02
	3.15E+01	0.122171138	7.208179909	4.1735E-11	4.21E+00	10.92226752	249.03	1.52913E-08	2.31E+02
	3.20E+01	0.11879282	7.208820633	3.9904E-11	4.21E+00	10.9229307	250.76	1.52967E-08	2.33E+02
	3.25E+01	0.115563341	7.209433481	3.8182E-11	4.21E+00	10.92358612	252.50	1.53021E-08	2.34E+02
	3.30E+01	0.11247387	7.210020106	3.6562E-11	4.21E+00	10.92423374	254.23	1.53072E-08	2.36E+02
	3.35E+01	0.10951623	7.210582043	3.5036E-11	4.21E+00	10.92487351	255.97	1.53124E-08	2.38E+02
	3.40E+01	0.106682844	7.211120712	3.3597E-11	4.21E+00	10.92550542	257.71	1.53176E-08	2.40E+02
	3.45E+01	0.103966679	7.21163743	3.2239E-11	4.21E+00	10.92612947	259.45	1.53226E-08	2.41E+02
	3.50E+01	0.101361201	7.212133423	3.0956E-11	4.21E+00	10.92674567	261.18	1.53276E-08	2.43E+02
	3.55E+01	0.098863035	7.212609829	2.9743E-11	4.21E+00	10.92735404	262.92	1.53325E-08	2.45E+02
	3.60E+01	0.09645842	7.213067709	2.8595E-11	4.21E+00	10.92795461	264.66	1.53374E-08	2.47E+02
	3.65E+01	0.094150182	7.213508052	2.7508E-11	4.21E+00	10.92854743	266.40	1.53422E-08	2.48E+02
	3.70E+01	0.091930699	7.21393178	2.6478E-11	4.21E+00	10.92913254	268.13	1.53469E-08	2.50E+02
	3.75E+01	0.089795173	7.214339755	2.5501E-11	4.21E+00	10.929374	269.87	1.53516E-08	2.52E+02
	3.80E+01	0.087739904	7.214732781	2.457388-11	4.21E+00	10.93027988	271.61	1.53562E-08	2.54E+02
	3.85E+01	0.085760027	7.215111614	2.3692E-11	4.22E+00	10.93084225	273.35	1.53608E-08	2.55E+02
	3.90E+01	0.083852702	7.215476959	2.2851E-11	4.22E+00	10.93139734	275.09	1.53653E-08	2.57E+02
	3.95E+01	0.082013665	7.215829479	2.2056E-11	4.22E+00	10.93194473	276.82	1.53697E-08	2.59E+02
	4.00E+01	0.080239843	7.216169795	2.13E-11	4.22E+00	10.93248501	278.56	1.53741E-08	2.61E+02
	4.05E+01	0.078528122	7.216498489	2.0577E-11	4.22E+00	10.93301809	280.30	1.53784E-08	2.62E+02
	4.10E+01	0.076875574	7.216816112	1.9889Z2E-11	4.22E+00	10.93354403	282.04	1.53827E-08	2.64E+02
	4.15E+01	0.075279444	7.217123178	1.923Z6E-11	4.22E+00	10.93406296	283.78	1.53869E-08	2.66E+02
	4.20E+01	0.073737139	7.21743173	1.8606E-11	4.22E+00	10.93457495	285.53	1.53911E-08	2.68E+02
	4.25E+01	0.072246216	7.217707556	1.8007BE-11	4.22E+00	10.93508008	287.26	1.53951E-08	2.69E+02
	4.30E+01	0.070804369	7.217985758	1.7436Z2E-11	4.22E+00	10.93557846	289.00	1.53992E-08	2.71E+02
	4.35E+01	0.069409425	7.218253186	1.68899E-11	4.22E+00	10.93607016	290.74	1.54032E-08	2.73E+02
	4.40E+01	0.068059331	7.218516224	1.636738-11	4.22E+00	10.9365553	292.48	1.54071E-08	2.74E+02
	4.45E+01	0.066752146	7.218769236	1.586728-11	4.22E+00	10.93703395	294.22	1.54111E-08	2.76E+02
	4.50E+01	0.065486036	7.219014566	1.538845-11	4.22E+00	10.93750621	295.96	1.54148E-08	2.78E+02
	4.55E+01	0.064259264	7.219252538	1.4929BE-11	4.22E+00	10.93797217	297.70	1.54186E-08	2.80E+02
	4.60E+01	0.063070188	7.219483461	1.449025-11	4.22E+00	10.93843192	299.44	1.54223E-08	2.81E+02
	4.65E+01	0.061917249	7.219707626	1.4068E7E-11	4.22E+00	10.93888556	301.18	1.5426E-08	2.83E+02
	4.70E+01	0.060798971	7.219925309	1.366446-11	4.22E+00	10.93933318	302.92	1.54296E-08	2.85E+02
	4.75E+01	0.059713953	7.220136773	1.327E8E-11	4.22E+00	10.93977487	304.66	1.54332E-08	2.87E+02
	4.80E+01	0.058660867	7.220342267	1.29037E-11	4.22E+00	10.94021072	306.40	1.54367E-08	2.88E+02
	4.85E+01	0.01763845	7.220542026	1.254570-11	4.22E+00	10.94064081	308.14	1.54402E-08	2.90E+02
	4.90E+01	0.056645502	7.220736276	1.2201E-11	4.22E+00	10.94106523	309.88	1.54437E-08	2.91E+02
	4.95E+01	0.055680882	7.22092523	1.18716-11	4.22E+00	10.94148408	311.62	1.54471E-08	2.94E+02
	5.00E+01	0.054743506	7.22110909	1.155288-11	4.22E+00	10.94189744	313.36	1.54504E-08	2.95E+02

Comments or Notes Pertaining to Analysis

SCG1B

Time @ a = 0.75 t_w (years): 1.93 | a @ 0.75 t_w (mm): 3 | 2c @ 0.75 t_w (mm): 204.6

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface			
Time Block n°	Time (Year)	K_{Ic} (MPa·im)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{Ic} (MPa·im)	2c (mm)	dc/dt (mm/s)	Δc (mm)
0	0.00E+00	40.44	3	4.49679E-07	0.00	26.33	18.00	2.22831E-07	0.00
1	1.00E-01	63.24	3.745992909	4.99784E-07	7.46E-01	31.16	18.81	2.95849E-07	5.27E+00
2	1.00E+00	45.44	4.564267077	5.41033E-07	1.56E+00	36.36	19.87	3.77065E-07	1.87E+00
...	1.50E+00	47.13	5.440025446	5.73447E-07	2.44E+00	40.92	21.18	4.57496E-07	3.18E+00
	2.00E+00	48.39	6.301175484	5.98388E-07	3.30E+00	44.53	22.72	5.34265E-07	4.72E+00
	2.50E+00	49.18	7.314108209	6.14017E-07	4.31E+00	47.95	24.47	5.89711E-07	6.47E+00
	3.00E+00	49.54	8.284714494	6.21346E-07	5.28E+00	51.17	26.42	6.54359E-07	8.42E+00
	3.50E+00	49.58	9.261745204	6.22035E-07	6.26E+00	54.35	28.58	7.20598E-07	1.05E+01
	4.00E+00	49.26	10.23413709	6.15595E-07	7.23E+00	57.28	30.95	7.83828E-07	1.29E+01
	4.50E+00	48.63	11.19153426	6.03103E-07	8.19E+00	59.97	33.50	8.43466E-07	1.55E+01
	5.00E+00	47.75	12.1251455	5.85731E-07	9.13E+00	62.42	36.24	8.99138E-07	1.82E+01
	5.50E+00	46.67	13.03873858	5.64633E-07	1.00E+01	64.63	39.14	9.50655E-07	2.11E+01
	6.00E+00	45.44	13.89934836	5.41059E-07	1.09E+01	66.62	42.21	9.97690E-07	2.42E+01
	6.50E+00	44.11	14.7588337	5.15977E-07	1.17E+01	68.41	45.41	1.04119E-06	2.74E+01
	7.00E+00	42.73	15.5168151	4.9033E-07	1.25E+01	70.01	48.74	1.08049E-06	3.07E+01
	7.50E+00	41.35	16.2667071	4.65126E-07	1.33E+01	71.54	52.19	1.11845E-06	3.42E+01
	8.00E+00	40.01	16.9782443	4.41411E-07	1.40E+01	73.09	55.77	1.15746E-06	3.78E+01
	8.50E+00	38.69	17.6532742	4.18295E-07	1.47E+01	74.50	59.46	1.19356E-06	4.15E+01
	9.00E+00	37.40	18.2923494	3.96185E-07	1.53E+01	75.81	63.26	1.22713E-06	4.53E+01
	9.50E+00	36.15	18.8979407	3.75254E-07	1.59E+01	77.01	67.16	1.25834E-06	4.92E+01
	1.00E+01	34.95	19.4713501	3.556E-07	1.65E+01	78.11	71.16	1.28739E-06	5.32E+01
	1.05E+01	33.82	20.0154013	3.37282E-07	1.70E+01	79.14	75.24	1.31447E-06	5.73E+01
	1.10E+01	32.74	20.5310561	3.20236E-07	1.75E+01	80.08	79.41	1.33977E-06	6.14E+01
	1.15E+01	31.72	21.0212491	3.04489E-07	1.80E+01	80.97	83.66	1.36344E-06	6.57E+01
	1.20E+01	30.76	21.4883401	2.92339E-07	1.85E+01	81.28	87.95	1.37180E-06	7.00E+01
	1.25E+01	30.19	21.9393713	2.81206E-07	1.89E+01	81.44	92.27	1.37636E-06	7.43E+01
	1.30E+01	29.49	22.3726208	2.70936E-07	1.94E+01	81.59	96.60	1.38025E-06	7.86E+01
	1.35E+01	28.84	22.7904134	2.61419E-07	1.98E+01	81.71	100.94	1.38358E-06	8.29E+01
	1.40E+01	28.23	23.193867	2.52648E-07	2.02E+01	81.82	105.29	1.38646E-06	8.73E+01
	1.45E+01	27.67	23.5841069	2.44611E-07	2.06E+01	81.91	109.64	1.38897E-06	9.16E+01
	1.50E+01	27.15	23.9623185	2.37287E-07	2.10E+01	81.99	114.01	1.39118E-06	9.60E+01
	1.55E+01	26.70	24.3299135	2.31107E-07	2.15E+01	82.06	118.38	1.39301E-06	1.00E+02
	1.60E+01	26.30	24.6882914	2.25532E-07	2.17E+01	82.12	122.76	1.39447E-06	1.05E+02
	1.65E+01	25.93	25.0388537	2.20005E-07	2.20E+01	82.18	127.14	1.39626E-06	1.09E+02
	1.70E+01	25.60	25.3809496	2.16015E-07	2.24E+01	82.23	131.52	1.39776E-06	1.14E+02
	1.75E+01	25.30	25.7169298	2.12071E-07	2.27E+01	82.29	135.92	1.39927E-06	1.18E+02
	1.80E+01	25.05	26.0471852	2.08678E-07	2.30E+01	82.35	140.31	1.40080E-06	1.22E+02
	1.85E+01	24.84	26.3724457	2.05822E-07	2.34E+01	82.40	144.71	1.40241E-06	1.27E+02
	1.90E+01	24.66	26.6937047	2.03528E-07	2.37E+01	82.47	149.12	1.40412E-06	1.31E+02
	1.95E+01	24.53	27.0118393	2.01483E-07	2.40E+01	82.53	153.53	1.40596E-06	1.36E+02
	2.00E+01	24.45	27.3276808	2.00668E-07	2.43E+01	82.61	157.95	1.40799E-06	1.40E+02
	2.05E+01	24.41	27.6423786	2.00152E-07	2.46E+01	82.69	162.37	1.41022E-06	1.44E+02
	2.10E+01	24.42	27.9564688	2.0029E-07	2.50E+01	82.78	166.80	1.41271E-06	1.49E+02
	2.15E+01	24.48	28.2715146	2.01138E-07	2.53E+01	82.88	171.24	1.41549E-06	1.53E+02
	2.20E+01	24.60	28.5884763	2.02762E-07	2.56E+01	83.00	175.69	1.41861E-06	1.58E+02
	2.25E+01	24.79	28.9084704	2.05252E-07	2.59E+01	83.13	180.15	1.42212E-06	1.62E+02
	2.30E+01	25.05	29.23348	2.08723E-07	2.62E+01	83.27	184.63	1.42607E-06	1.67E+02
	2.35E+01	25.40	29.5646222	2.13331E-07	2.66E+01	83.43	189.11	1.43053E-06	1.71E+02
	2.40E+01	25.84	29.9042888	2.19278E-07	2.69E+01	83.62	193.61	1.43558E-06	1.76E+02
	2.45E+01	26.39	30.2540592	2.26836E-07	2.73E+01	83.83	198.13	1.44132E-06	1.80E+02

Comments or Notes Pertaining to Analysis

SCG1C

Time @ a = 0.75 t_w (years): | a @ 0.75 t_w (mm): | 2c @ 0.75 t_w (mm):

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface			
Time Block n°	Time (Year)	K_{Ic} (MPa·im)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{Ic} (MPa·im)	2c (mm)	dc/dt (mm/s)	Δc (mm)
0	0.0		3.0		0.00		18.00		0.00
1	...		...		...		...		...
2									
...	...								

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

Comments or Notes Pertaining to Analysis

SCG1D

Time @ a = 0.75 t_w (years): | a @ 0.75 t_w (mm): | 2c @ 0.75 t_w (mm):

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface			
Time Block n°	Time (Year)	K_{Ic} (MPa·im)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{Ic} (MPa·im)	2c (mm)	dc/dt (mm/s)	Δc (mm)
0	0.0		3.0		0.00		18.00		0.00
1	...		...		...		...		...
2									
...	...								

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

Comments or Notes Pertaining to Analysis

Participating Organization:	Kiwa	Analyst Identification:	Andrey Shipsha	Reporting Date:	10/26/2022

Codes and Procedures Used in Analysis (add space as needed)

	Name and Version #	List any code or analysis limitations for these problems (e.g., utilizes flat-plate K-solutions)	List any analysis assumptions	Briefly describe the approach that your code or analysis uses to determine output variables (e.g., K_{Ic}, Δc)	Briefly describe the approach used to incorporate WRS within the evaluation	Provide any other comments related to your code capabilities or evaluation approach that affects your results
Task 1: PWSCC Code(s)	ISAAC Ver. 1.2 Rev. 1					
Task 1 (SCG1D): Advanced FE Crack Growth Code(s)	We have not performed this analysis					

Quantitative Outputs (add space as needed)

SCG Task: **Task 1: PWSCC Crack Growth**

Analysis ID: **SCG1A**

Time @ a = 0.75 t_w (years): 50.00 | # @ 0.75 t_w (mm): 7.089 | 2c @ 0.75 t_w (mm): 346.105

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface				
Time Block n°	Time (Year)	K_{mat} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{tip} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)	
0	0.0	16.467	3.000	1.06E-07	0.000	19.870	18.000	1.43E-07	0.000	
1	1.0	8.589	4.989	3.75E-08	1.989	23.669	29.120	1.90E-07	11.120	
2	2.0	5.338	5.782	1.75E-08	0.793	23.811	41.211	1.91E-07	12.090	
3	3.0	3.823	6.197	9.41E-09	0.415	23.305	53.177	1.85E-07	11.966	
4	4.0	2.672	6.429	5.78E-09	0.232	22.440	64.491	1.74E-07	11.313	
5	5.0	2.070	6.577	3.84E-09	0.148	21.795	75.216	1.66E-07	10.726	
6	6.0	1.656	6.680	2.66E-09	0.103	21.296	85.521	1.60E-07	10.305	
7	7.0	1.369	6.753	1.98E-09	0.073	20.895	95.470	1.55E-07	9.949	
8	8.0	1.157	6.807	1.52E-09	0.055	20.566	105.147	1.51E-07	9.677	
9	9.0	0.991	6.850	1.18E-09	0.043	20.110	114.569	1.46E-07	9.422	
10	10.0	0.862	6.883	9.47E-10	0.033	19.604	123.584	1.40E-07	9.015	
11	11.0	0.759	6.910	7.71E-10	0.027	19.175	132.281	1.35E-07	8.697	
12	12.0	0.674	6.932	6.36E-10	0.022	18.806	140.703	1.31E-07	8.422	
13	13.0	0.605	6.951	5.37E-10	0.018	18.485	148.864	1.28E-07	8.160	
14	14.0	0.547	6.966	4.58E-10	0.016	18.201	156.824	1.25E-07	7.960	
15	15.0	0.499	6.980	3.94E-10	0.013	17.948	164.596	1.22E-07	7.772	
16	16.0	0.458	6.991	3.43E-10	0.012	17.721	172.201	1.19E-07	7.605	
17	17.0	0.422	7.001	3.01E-10	0.010	17.516	179.666	1.17E-07	7.465	
18	18.0	0.391	7.010	2.67E-10	0.009	17.330	186.996	1.15E-07	7.330	
19	19.0	0.363	7.018	2.38E-10	0.008	17.159	194.204	1.13E-07	7.208	
20	20.0	0.339	7.025	2.13E-10	0.007	17.003	201.309	1.12E-07	7.104	
21	21.0	0.318	7.032	1.92E-10	0.006	16.858	208.306	1.10E-07	6.997	
22	22.0	0.299	7.038	1.74E-10	0.006	16.725	215.215	1.09E-07	6.909	
23	23.0	0.282	7.043	1.59E-10	0.005	16.600	222.043	1.07E-07	6.828	
24	24.0	0.263	7.048	1.42E-10	0.005	16.302	228.748	1.04E-07	6.704	
25	25.0	0.243	7.052	1.25E-10	0.004	15.853	235.194	9.99E-08	6.447	
26	26.0	0.225	7.056	1.10E-10	0.004	15.445	241.368	9.58E-08	6.174	
27	27.0	0.209	7.059	9.83E-11	0.003	15.072	247.289	9.21E-08	5.921	
28	28.0	0.195	7.062	8.80E-11	0.003	14.728	252.999	8.88E-08	5.710	
29	29.0	0.183	7.064	7.91E-11	0.003	14.410	258.506	8.57E-08	5.507	
30	30.0	0.171	7.067	7.14E-11	0.002	14.116	263.824	8.29E-08	5.318	
31	31.0	0.161	7.069	6.47E-11	0.002	13.840	268.981	8.04E-08	5.157	
32	32.0	0.152	7.071	5.89E-11	0.002	13.583	273.972	7.80E-08	4.992	
33	33.0	0.144	7.073	5.38E-11	0.002	13.342	278.823	7.58E-08	4.851	
34	34.0	0.136	7.074	4.93E-11	0.002	13.115	283.546	7.37E-08	4.723	
35	35.0	0.129	7.076	4.53E-11	0.001	12.901	288.135	7.18E-08	4.589	
36	36.0	0.123	7.077	4.18E-11	0.001	12.699	292.611	7.00E-08	4.476	
37	37.0	0.117	7.078	3.86E-11	0.001	12.508	296.978	6.83E-08	4.368	
38	38.0	0.111	7.080	3.58E-11	0.001	12.326	301.238	6.68E-08	4.259	
39	39.0	0.106	7.081	3.32E-11	0.001	12.153	305.405	6.53E-08	4.167	
40	40.0	0.102	7.082	3.09E-11	0.001	11.988	309.481	6.39E-08	4.076	
41	41.0	0.097	7.083	2.89E-11	0.001	11.831	313.466	6.25E-08	3.986	
42	42.0	0.093	7.083	2.70E-11	0.001	11.680	317.374	6.13E-08	3.907	
43	43.0	0.090	7.084	2.53E-11	0.001	11.537	321.200	6.00E-08	3.826	
44	44.0	0.086	7.085	2.37E-11	0.001	11.399	324.953	5.89E-08	3.753	
45	45.0	0.083	7.086	2.23E-11	0.001	11.267	328.638	5.78E-08	3.686	
46	46.0	0.080	7.086	2.10E-11	0.001	11.140	332.253	5.68E-08	3.615	
47	47.0	0.077	7.087	1.98E-11	0.001	11.017	335.805	5.58E-08	3.552	
48	48.0	0.074	7.088	1.87E-11	0.001	10.900	339.297	5.48E-08	3.492	
49	49.0	0.072	7.088	1.77E-11	0.001	10.786	342.727	5.39E-08	3.430	
50	50.0	0.069	7.089	1.67E-11	0.001	10.677	346.105	5.31E-08	3.378	

Comments or Notes Pertaining to Analysis: Operating lifetime of 50 years has been reached prior the crack grows to 75% of wall thickness.

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

SCG1B

Time @ a = 0.75 t_w (years): 2.12 | # @ 0.75 t_w (mm): 30.012 | 2c @ 0.75 t_w (mm): 175.221

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface				
Time Block n°	Time (Year)	K_{mat} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{tip} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)	
0	0.00	43.511	3.000	5.02E-07	0.000	30.338	18.000	2.82E-07	0.000	
1	0.05	45.454	3.787	5.36E-07	0.787	35.581	19.147	3.64E-07	1.147	
2	0.09	46.583	4.574	5.60E-07	0.787	40.482	20.293	4.48E-07	1.147	
3	0.14	47.139	5.375	5.71E-07	0.800	45.054	21.593	5.31E-07	1.299	
4	0.18	47.679	6.214	5.81E-07	0.840	48.320	23.362	5.94E-07	1.769	
5	0.23	47.781	7.054	5.83E-07	0.840	51.236	25.131	6.52E-07	1.769	
6	0.28	47.561	7.892	4.79E-07	0.838	53.888	26.989	7.07E-07	1.857	
7	0.32	47.413	8.722	5.76E-07	0.830	56.418	29.240	7.61E-07	2.251	
8	0.37	46.999	9.552	5.68E-07	0.830	58.788	31.492	8.13E-07	2.251	
9	0.41	46.432	10.367	5.57E-07	0.815	60.951	33.868	8.61E-07	2.377	
10	0.46	45.898	11.146	5.47E-07	0.779	62.873	36.560	9.05E-07	2.692	
11	0.51	45.157	11.926	5.33E-07	0.779	64.686	39.251	9.47E-07	2.692	
12	0.55	44.232	12.705	5.19E-07	0.779	66.395	41.943	9.88E-07	2.692	
13	0.60	43.511	13.409	5.02E-07	0.705	67.854	44.977	1.02E-06	3.035	
14	0.64	42.775	14.086	4.89E-07	0.677	69.193	48.140	1.06E-06	3.162	
15	0.69	41.906	14.763	4.79E-07	0.677	70.473	51.302	1.09E-06	3.162	
16	0.74	40.922	15.439	4.55E-07	0.677	71.697	54.465	1.12E-06	3.162	
17	0.78	39.857	16.116	4.37E-07	0.677	72.912	57.627	1.15E-06	3.162	
18	0.83	38.898	16.766	4.20E-07	0.650	74.244	60.899	1.18E-06	3.271	
19	0.87	38.191	17.338	4.08E-07	0.571	75.391	64.491	1.21E-06	3.592	
20	0.92	37.414	17.909	3.94E-07	0.571	76.506	68.084	1.24E-06	3.592	
21	0.97	36.581	18.481	3.81E-07	0.571	77.589	71.676	1.27E-06	3.592	
22	1.01	35.703	19.052	3.66E-07	0.571	78.640	75.268	1.29E-06	3.592	
23	1.06	35.262	19.543	3.59E-07	0.491	79.268	79.178	1.31E-06	3.910	
24	1.10	34.939	20.032	3.54E-07	0.489	79.651	83.094	1.32E-06	3.916	
25	1.15	34.574	20.521	3.48E-07	0.489	80.048	87.010	1.33E-06	3.916	
26	1.20	34.176	21.010	3.41E-07	0.489	80.457	90.926	1.34E-06	3.916	
27	1.24	33.754	21.499	3.35E-07	0.489	80.873	94.841	1.35E-06	3.916	
28	1.29	33.318	21.988	3.28E-07	0.489	81.294	98.757	1.37E-06	3.916	
29	1.33	32.874	22.477	3.21E-07	0.489	81.717	102.673	1.38E-06	3.916	
30	1.38	32.432	22.966	3.14E-07	0.489	82.140	106.589	1.39E-06	3.916	
31	1.43	32.180	23.409	3.10E-07	0.443	82.437	110.714	1.40E-06	4.125	
32	1.47	31.949	23.846	3.06E-07	0.437	82.726	114.863	1.40E-06	4.149	
33	1.52	31.763	24.283	3.04E-07	0.437	83.108	119.012	1.41E-06	4.149	
34	1.56	31.610	24.721	3.01E-07	0.437	83.544	123.162	1.43E-06	4.149	
35	1.61	31.475	25.158	2.99E-07	0.437	83.986	127.311	1.44E-06	4.149	
36	1.66	31.362	25.596	2.97E-07	0.437	84.431	131.460	1.45E-06	4.149	
37	1.70	31.277	26.033	2.96E-07	0.437	84.880	135.609	1.46E-06	4.149	
38	1.75	31.237	26.471	2.96E-07	0.438	85.325	139.824	1.48E-06	4.214	
39	1.80	31.298	26.911	2.96E-07	0.440	85.756	144.235	1.49E-06	4.411	
40	1.84	31.341	27.350	2.97E-07	0.440	86.189	148.646	1.50E-06	4.411	
41	1.89	31.462	27.790	2.99E-07	0.440	86.625	153.058	1.51E-06	4.411	
42	1.93	31.637	28.230	3.02E-07	0.440	87.061	157.469	1.52E-06	4.411	
43	1.98	31.873	28.669	3.05E-07	0.440	87.498	161.880	1.54E-06	4.411	
44	2.03	32.175	29.109	3.10E-07	0.440	87.935	166.292	1.55E-06	4.411	
45	2.07	32.551	29.549	3.16E-07	0.440	88.372	170.703	1.56E-06	4.411	
46	2.12	33.013	30.012	3.23E-07	0.463	88.840	175.221	1.57E-06	4.518	
47	2.16	33.584	30.497	3.32E-07	0.485	89.337	179.838	1.59E-06	4.616	
48	2.21	34.271	30.982	3.43E-07	0.485	89.831	184.454	1.60E-06	4.616	
49	2.26	35.090	31.475	3.56E-07	0.493	90.334	189.089	1.62E-06	4.635	
50	2.30	36.081	31.999	3.72E-07	0.525	90.882	193.779	1.63E-06	4.690	

Comments or Notes Pertaining to Analysis:

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

SCG1C

Time @ a = 0.75 t_w (years): 2.57 | # @ 0.75 t_w (mm): 30.105 | 2c @ 0.75 t_w (mm): 196.452

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface				
Time Block n°	Time (Year)	K_{mat} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{tip} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)	
0	0.00	37.502	3.000	4.03E-07	0.000	24.102	18.000	1.95E-07	0.000	
1	0.07	42.128	3.971	4.77E-07	0.971	29.685	19.032	2.72E-07	1.032	
2	0.14	46.345	5.104	5.56E-07	1.132	35.698	20.416	3.66E-07	1.384	
3	0.21	50.623	6.419	6.40E-07	1.316	40.537	22.199	4.48E-07	1.783	
4	0.28	53.646	7.893	7.02E-07	1.473	45.531	24.371	5.40E-07	2.172	
5	0.35	54.702	9.468	7.24E-07	1.575	50.636	27.011	6.40E-07	2.640	
6	0.42	53.711	11.012	7.04E-07	1.544	55.222	30.066	7.35E-07	3.075	
7	0.49	50.903	12.499	6.46E-07	1.487	59.258	33.452	8.23E-07	3.366	
8	0.56	47.085	13.835	5.70E-07	1.336	62.564	37.223	8.98E-07	3.771	
9	0.63	43.439	14.972	5.01E-07	1.137	65.154	41.362	9.55E-07	4.139	
10	0.70	39.718	15.997	4.34E-07	1.025	67.342	45.694	1.01E-06	4.332	
11	0.77	36.602	16.902	3.81E-07	0.905	69.546	50.232	1.06E-06	4.538	
12	0.84	33.694	17.696	3.34E-07	0.794	71.407	54.983	1.11E-06	4.751	
13	0.90	32.082	18.334	3.08E-07	0.638	72.887	60.086	1.15E-06	5.103	
14	0.97	30.112	18.939	2.79E-07	0.605	74.239	65.265	1.18E-06	5.179	
15	1.04	28.021	19.544	2.48E-07	0.605	75.542	70.444	1.21E-06	5.179	
16	1.11	26.738	20.090	2.30E-07	0.545	76.705	75.789	1.24E-06	5.345	
17	1.18	25.440	20.565	2.13E-07	0.475	77.692	81.328	1.27E-06	5.539	
18	1.25	24.628	21.039	2.02E-07	0.473	77.910	86.870	1.26E-06	5.542	
19	1.32	24.164	21.472	1.96E-07	0.433	77.817	92.466	1.27E-06	5.596	
20	1.39	23.670	21.895	1.90E-07	0.423	77.766	98.062	1.27E-06	5.596	
21	1.46	23.842	22.306	1.92E-07	0.411	77.757	103.659	1.27E-06	5.597	
22	1.53	23.551	22.717	1.88E-07	0.411	77.786	109.256	1.27E-06	5.597	
23	1.60	23.281	23.128	1.85E-07	0.411	77.852	114.853	1.27E-06	5.597	
24	1.67	23.098	23.539	1.81E-07	0.411	77.948	120.450	1.26E-06	5.597	
25	1.74	22.789	23.951	1.78E-07	0.412	78.066	126.086	1.28E-06	5.637	
26	1.81	23.294	24.364	1.85E-07	0.413	78.296	131.758	1.29E-06	5.672	
27	1.88	23.538	24.778	1.88E-07	0.413	78.552	137.430	1.29E-06	5.672	
28	1.95	23.841	25.191	1.92E-07	0.413	78.825	143.101	1.30E-06	5.672	
29	2.02	24.223	25.604	1.97E-07	0.413	79.113	148.773	1.31E-06	5.672	
30	2.09	24.781	26.073	2.04E-07	0.469	79.510	154.581	1.32E-06	5.809	
31	2.16	25.636	26.555	2.15E-07	0.482	79.937	160.423	1.33E-06	5.841	
32	2.23	26.656	27.038	2.29E-07	0.482	80.370	166.264	1.34E-06	5.841	
33	2.30	27.807	27.520	2.45E-07	0.482	80.811	172.105	1.35E-06	5.841	
34	2.37	28.858	28.104	2.60E-07	0.584	81.433	178.111	1.37E-06	6.006	
35	2.44	30.942	28.716	2.91E-07	0.612	82.087	184.162	1.39E-06	6.051	
36	2.51	33.299	29.337	3.27E-07	0.621	82.768	190.223	1.41E-06	6.061	
37	2.57	35.156	30.105	3.57E-07	0.768	83.727	196.452	1.43E-06	6.229	
38	2.64	39.354	30.973	4.26E-07	0.868	84.802	202.807	1.46E-06	6.355	
39	2.71	44.441	31.992	5.20E-07	1.019	86.176	209.288	1.50E-06	6.482	

Comments or Notes Pertaining to Analysis:

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

SCG1D

Time @ a = 0.75 t_w (years): | # @ 0.75 t_w (mm): | 2c @ 0.75 t_w (mm):

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

		Depth				Surface				
Time Block n°	Time (Year)	K_{mat} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	K_{tip} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)	
0	0.0		3.0		0.00		18.00		0.00	
1										
2										
...										

Comments or Notes Pertaining to Analysis: We have not done this analysis.

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

Participating Organization:	NRC	Reporting Date:	10/24/2022

Codes and Procedures Used in Analysis (add space as needed)

	Name and Version #	List any code or analysis limitations for these problems (e.g., utilizes flat-plate K-solutions)	List any analysis assumptions	Briefly describe the approach that your code or analysis uses to determine output variables (e.g., K_{Idp}, Δc)	Briefly describe the approach used to incorporate WRS within the evaluation	Provide any other comments related to your code capabilities or evaluation approach that affects your results
Task 1: PWSCC Code(s)	KPW_V1.5_R20200311	None		K values calculated from geometry, membranne and bending stress, with 20 point WRS distributions, as applicable. Crack advance calculated on monthly time increment	Universal weight function from xLPR	
Task 1 (SCG1D): Advanced FE Crack Growth Code(s)						

Quantitative Outputs (add space as needed)

SCG Task: Task 1: PWSCC Crack Growth

Analysis ID:

SCG1A

Time @ a = 0.75 t_w (years): Arrest	a @ 0.75 t_w (mm): N/A	2c @ 0.75 t_w (mm): N/A

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

Comments or Notes Pertaining to Analysis: WRS1 expressed as 3'rd order polynomial

Time Block n°	Time (Year)	Depth K_{Iat} (MPa√m)	Depth a (mm)	Depth da/dt (mm/s)	Depth Δa (mm)	Surface K_{Ict} (MPa√m)	Surface 2c (mm)	Surface dc/dt (mm/s)	Surface Δc (mm)
0	0.0	16.970	3.000			20.90	18.00		
1	0.1	15.700	3.351	1.11E-07	0.351	22.14	18.98	1.55E-07	0.49
2	0.2	14.570	3.661	9.83E-08	0.31	23.04	20.06	1.70E-07	0.5375
3	0.3	13.540	3.936	8.72E-08	0.275	23.68	21.20	1.82E-07	0.5725
4	0.4	12.59	4.181	7.77E-08	0.245	24.14	22.40	1.90E-07	0.5985
5	0.5	11.72	4.399	6.91E-08	0.218	24.47	23.632	1.96E-07	0.6175
6	0.6	10.92	4.593	6.15E-08	0.194	24.7	24.893	2.00E-07	0.6305
7	0.7	10.19	4.766	5.49E-08	0.173	24.84	26.173	2.03E-07	0.64
8	0.8	9.54	4.922	4.95E-08	0.156	24.92	27.465	2.05E-07	0.646
9	0.9	8.98	5.061	4.41E-08	0.139	24.96	28.764	2.06E-07	0.6495
10	1	8.47	5.188	4.03E-08	0.127	24.96	30.066	2.06E-07	0.651
11	1.1	8.01	5.304	3.68E-08	0.116	24.93	31.367	2.06E-07	0.6505
12	1.2	7.59	5.409	3.33E-08	0.105	24.87	32.666	2.06E-07	0.6495
13	1.3	7.19	5.506	3.08E-08	0.097	24.81	33.961	2.05E-07	0.6475
14	1.4	6.83	5.595	2.82E-08	0.089	24.72	35.251	2.05E-07	0.645
15	1.5	6.5	5.677	2.60E-08	0.082	24.63	36.533	2.03E-07	0.641
16	1.6	6.19	5.753	2.41E-08	0.076	24.53	37.807	2.02E-07	0.637
17	1.7	5.9	5.823	2.22E-08	0.07	24.42	39.073	2.01E-07	0.633
18	1.8	5.63	5.887	2.03E-08	0.064	24.3	40.33	1.99E-07	0.6285
19	1.9	5.37	5.947	1.90E-08	0.06	24.18	41.578	1.98E-07	0.624
20	2	5.14	6.003	1.78E-08	0.056	24.06	42.816	1.96E-07	0.619
21	2.1	4.92	6.055	1.65E-08	0.052	23.94	44.043	1.95E-07	0.6135
22	2.2	4.71	6.103	1.52E-08	0.048	23.81	45.261	1.93E-07	0.609
23	2.3	4.52	6.149	1.46E-08	0.046	23.69	46.468	1.91E-07	0.6035
24	2.4	4.34	6.191	1.33E-08	0.042	23.56	47.666	1.90E-07	0.599
25	2.5	4.16	6.23	1.24E-08	0.039	23.43	48.853	1.88E-07	0.5935
26	2.6	4	6.267	1.17E-08	0.037	23.31	50.03	1.87E-07	0.5885
27	2.7	3.85	6.302	1.11E-08	0.035	23.18	51.196	1.85E-07	0.583
28	2.8	3.71	6.335	1.05E-08	0.033	23.06	52.353	1.83E-07	0.5785
29	2.9	3.57	6.366	9.83E-09	0.031	22.93	53.5	1.82E-07	0.5735
30	3	3.44	6.395	9.20E-09	0.029	22.81	54.637	1.80E-07	0.5685
31	3.1	3.32	6.422	8.56E-09	0.027	22.69	55.764	1.79E-07	0.5635
32	3.2	3.21	6.448	8.24E-09	0.026	22.57	56.882	1.77E-07	0.559
33	3.3	3.11	6.473	7.93E-09	0.025	22.45	57.991	1.76E-07	0.5545
34	3.4	3.01	6.496	7.29E-09	0.023	22.34	59.09	1.74E-07	0.5495
35	3.5	2.92	6.518	6.98E-09	0.022	22.23	60.18	1.73E-07	0.545
36	3.6	2.83	6.539	6.66E-09	0.021	22.11	61.262	1.72E-07	0.541
37	3.7	2.75	6.559	6.34E-09	0.02	22	62.334	1.70E-07	0.536
38	3.8	2.67	6.578	6.02E-09	0.019	21.9	63.398	1.69E-07	0.532
39	3.9	2.59	6.596	5.71E-09	0.018	21.79	64.454	1.67E-07	0.528
40	4	2.52	6.614	5.71E-09	0.018	21.69	65.502	1.66E-07	0.524
41	4.1	2.45	6.63	5.07E-09	0.016	21.58	66.542	1.65E-07	0.52
42	4.2	2.38	6.646	5.07E-09	0.016	21.48	67.573	1.63E-07	0.5155
43	4.3	2.32	6.661	4.76E-09	0.015	21.38	68.597	1.62E-07	0.512
44	4.4	2.26	6.676	4.76E-09	0.015	21.29	69.614	1.61E-07	0.5085
45	4.5	2.2	6.69	4.44E-09	0.014	21.19	70.623	1.60E-07	0.5045
46	4.6	2.15	6.703	4.12E-09	0.013	21.1	71.625	1.59E-07	0.501
47	4.7	2.09	6.716	4.12E-09	0.013	21	72.62	1.58E-07	0.4975
48	4.8	2.04	6.728	3.81E-09	0.012	20.91	73.607	1.56E-07	0.4935
49	4.9	1.99	6.74	3.81E-09	0.012	20.82	74.588	1.56E-07	0.4905
50	5	1.95	6.752	3.81E-09	0.012	20.74	75.563	1.55E-07	0.4875
51	5.1	1.9	6.763	3.49E-09	0.011	20.65	76.53	1.53E-07	0.4835
52	5.2	1.86	6.773	3.17E-09	0.01	20.56	77.492	1.53E-07	0.481
53	5.3	1.81	6.783	3.17E-09	0.01	20.48	78.447	1.51E-07	0.4775
54	5.4	1.77	6.793	3.17E-09	0.01	20.4	79.395	1.50E-07	0.474
55	5.5	1.73	6.803	3.17E-09	0.01	20.32	80.338	1.50E-07	0.4715
56	5.6	1.7	6.812	2.85E-09	0.009	20.24	81.275	1.49E-07	0.4685
57	5.7	1.66	6.821	2.85E-09	0.009	20.16	82.206	1.48E-07	0.4655
58	5.8	1.62	6.829	2.54E-09	0.008	20.08	83.131	1.47E-07	0.4625
59	5.9	1.59	6.837	2.54E-09	0.008	20.01	84.051	1.46E-07	0.46
60	6	1.56	6.845	2.54E-09	0.008	19.94	84.965	1.45E-07	0.457
61	6.1	1.52	6.853	2.54E-09	0.008	19.86	85.874	1.44E-07	0.4545
62	6.2	1.49	6.86	2.22E-09	0.007	19.79	86.777	1.43E-07	0.4515
63	6.3	1.46	6.868	2.54E-09	0.008	19.72	87.675	1.42E-07	0.449
64	6.4	1.43	6.874	1.90E-09	0.006	19.65	88.568	1.42E-07	0.4465
65	6.5	1.41	6.881	2.22E-09	0.007	19.58	89.456	1.41E-07	0.444
66	6.6	1.38	6.888	2.22E-09	0.007	19.51	90.339	1.40E-07	0.4415
67	6.7	1.35	6.894	1.90E-09	0.006	19.45	91.218	1.39E-07	0.4395
68	6.8	1.33	6.9	1.90E-09	0.006	19.38	92.091	1.38E-07	0.4365
69	6.9	1.3	6.906	1.90E-09	0.006	19.32	92.96	1.38E-07	0.4345
70	7	1.28	6.912	1.90E-09	0.006	19.26	93.824	1.37E-07	0.432
71	7.1	1.25	6.918	1.90E-09	0.006	19.19	94.684	1.36E-07	0.43
72	7.2	1.23	6.923	1.59E-09	0.005	19.13	95.539	1.36E-07	0.4275
73	7.3	1.21	6.928	1.59E-09	0.005	19.07	96.39	1.35E-07	0.4255
74	7.4	1.19	6.933	1.59E-09	0.005	19.01	97.236	1.34E-07	0.423
75	7.5	1.17	6.938	1.59E-09	0.005	18.95	98.078	1.33E-07	0.421
76	7.6	1.15	6.943	1.59E-09	0.005	18.89	98.916	1.33E-07	0.419
77	7.7	1.13	6.948	1.59E-09	0.005	18.84	99.75	1.32E-07	0.417
78	7.8	1.11	6.952	1.27E-09	0.004	18.78	100.58	1.32E-07	0.415
79	7.9	1.09	6.957	1.59E-09	0.005	18.73	101.406	1.31E-07	0.413
80	8	1.07	6.961	1.27E-09	0.004	18.67	102.228	1.30E-07	0.411
81	8.1	1.05	6.965	1.27E-09	0.004	18.62	103.047	1.30E-07	0.4095
82	8.2	1.04	6.97	1.59E-09	0.005	18.56	103.861	1.29E-07	0.407
83	8.3	1.02	6.974	1.27E-09	0.004	18.51	104.672	1.29E-07	0.4055
84	8.4	1	6.978	1.27E-09	0.004	18.46	105.479	1.28E-07	0.4035
85	8.5	0.99	6.981	9.51E-10	0.003	18.41	106.282	1.27E-07	0.4015
86	8.6	0.97	6.985	1.27E-09	0.004	18.36	107.082	1.27E-07	0.4
87	8.7	0.96	6.989	1.27E-09	0.004	18.31	107.878	1.26E-07	0.398
88	8.8	0.94	6.992	9.51E-10	0.003	18.26	108.671	1.26E-07	0.3965
89	8.9	0.93	6.996	1.27E-09	0.004	18.21	109.461	1.25E-07	0.395
90	9	0.91	6.999	9.51E-10	0.003	18.16	110.247	1.25E-07	0.393
91	9.1	0.9	7.002	9.51E-10	0.003	18.11	111.03	1.24E-07	0.3915
92	9.2	0.88	7.005	9.51E-10	0.003	18.07	111.809	1.24E-07	0.3895
93	9.3	0.87	7.008	9.51E-10	0.003	18.02	112.586	1.23E-07	0.3885
94	9.4	0.86	7.011	9.51E-10	0.003	17.98	113.359	1.23E-07	0.3865
95	9.5	0.85	7.014	9.51E-10	0.003	17.93	114.129	1.22E-07	0.385
96	9.6	0.83	7.017	9.51E-10	0.003	17.89	114.896	1.22E-07	0.3835
97	9.7	0.82	7.02	9.51E-10	0.003	17.84	115.66	1.21E-07	0.382
98	9.8	0.81	7.023	9.51E-10	0.003	17.8	116.421	1.21E-07	0.3805
99	9.9	0.8	7.026	9.51E-10	0.003	17.76	117.179	1.20E-07	0.379
100	10	0.79	7.028	6.34E-10	0.002	17.71	117.934	1.20E-07	0.3775
101	10.1	0.78	7.031	9.51E-10	0.003	17.67	118.686	1.19E-07	0.376
102	10.2	0.76	7.033	6.34E-10	0.002	17.63	119.435	1.19E-07	0.3745
103	10.3	0.75	7.036	9.51E-10	0.003	17.59	120.182	1.18E-07	0.3735
104	10.4	0.74	7.038	6.34E-10	0.002	17.55	120.926	1.18E-07	0.372
105	10.5	0.73	7.041	9.51E-10	0.003	17.51	121.667	1.17E-07	0.3705
106	10.6	0.72	7.043	6.34E-10	0.002	17.47	122.405	1.17E-07	0.369
107	10.7	0.71	7.045	6.34E-10	0.002	17.43	123.141	1.17E-07	0.368
108	10.8	0.7	7.047	6.34E-10	0.002	17.39	123.874	1.16E-07	0.3665
109	10.9	0.7	7.05	9.51E-10	0.003	17.35	124.604	1.16E-07	0.365
110	11	0.69	7.052	6.34E-10	0.002	17.32	125.332	1.15E-07	0.364
111	11.1	0.68	7.054	6.34E-10	0.002	17.28	126.057	1.15E-07	0.3625
112	11.2	0.67	7.056	6.34E-10	0.002	17.24	126.78	1.15E-07	0.3615
113	11.3	0.66	7.058	6.34E-10	0.002	17.21	127.5	1.14E-07	0.36
114	11.4	0.65	7.06	6.34E-10	0.002	17.17	128.218	1.14E-07	0.359
115	11.5	0.64	7.062	6.34E-10	0.002	17.13	128.934	1.14E-07	0.358
116	11.6	0.64	7.063	3.17E-10	0.001	17.1	129.647	1.13E-07	0.3565
117	11.7	0.63	7.065	6.34E-10	0.002	17.06	130.358	1.13E-07	0.3555
118	11.8	0.62	7.067	6.34E-10	0.002	17.03	131.066	1.12E-07	0.354
119	11.9	0.61	7.069	6.34E-10	0.002	16.99	131.772	1.12E-07	0.353
120	12	0.6	7.071	6.34E-10	0.002	16.96	132.476	1.12E-07	0.352
121	12.1	0.6	7.072	3.17E-10	0.001	16.93	133.178	1.11E-07	0.351
122	12.2	0.59	7.074	6.34E-10	0.002	16.89	133.877	1.11E-07	0.3495
123	12.3	0.58	7.076	6.34E-10	0.002	16.86	134.575	1.11E-07	0.349
124	12.4	0.58	7.077	3.17E-10	0.001	16.83	135.27	1.10E-07	0.3475
125	12.5	0.57	7.079	6.34E-10	0.002	16.8	135.962	1.10E-07	0.346
126	12.6	0.56	7.08	3.17E-10	0.001	16.76	136.653	1.10E-07	0.3455
127	12.7	0.56	7.082	6.34E-10	0.002	16.73	137.342	1.09E-07	0.3445
128	12.8	0.55	7.083	3.17E-10	0.001	16.7	138.029	1.09E-07	0.3435
129	12.9	0.54	7.085	6.34E-10	0.002	16.67	138.713	1.08E-07	0.342
130	13	0.54	7.086	3.17E-10	0.001	16.64	139.396	1.08E-07	0.3415
131	13.1	0.53	7.087	3.17E-10	0.001	16.61	140.076	1.08E-07	0.34
132	13.2	0.52	7.089	6.34E-10	0.002	16.58	140.755	1.08E-07	0.3395
133	13.3	0.52	7.09	3.17E-10	0.001	16.55	141.431	1.07E-07	0.338
134	13.4	0.51	7.092	6.34E-10	0.002	16.52	142.106	1.07E-07	0.3375
135	13.5	0.51	7.093	3.17E-10	0.001	16.49	142.779	1.07E-07	0.3365
136	13.6	0.5	7.094	3.17E-10	0.001	16.46	143.449	1.06E-07	0.335
137	13.7	0.5	7.095	3.17E-10	0.001	16.43	144.118	1.06E-07	0.3345
138	13.8	0.49	7.097	6.34E-10	0.002	16.4	144.785	1.06E-07	0.3335
139	13.9	0.49	7.098	3.17E-10	0.001	16.38	145.45	1.05E-07	0.3325
140	14	0.48	7.099	3.17E-10	0.001	16.35	146.114	1.05E-07	0.332
141	14.1	0.47	7.1	3.17E-10	0.001	16.32	146.775	1.05E-07	0.3305
142	14.2	0.47	7.101	3.17E-10	0.001	16.29	147.435	1.05E-07	0.33
143	14.3	0.46	7.102	3.17E-10	0.001	16.27	148.093	1.04E-07	0.329
144	14.4	0.46	7.104	6.34E-10	0.002	16.24	148.749	1.04E-07	0.328
145	14.5	0.45	7.105	3.17E-10	0.001	16.21	149.404	1.04E-07	0.3275
146	14.6	0.45	7.106	3.17E-10	0.001	16.19	150.057	1.04E-07	0.3265
147	14.7	0.45	7.107	3.17E-10	0.001	16.16	150.708	1.03E-07	0.3255
148	14.8	0.44	7.108	3.17E-10	0.001	16.13	151.357	1.03E-07	0.3245
149	14.9	0.44	7.109	3.17E-10	0.001	16.11	152.005	1.03E-07	0.324
150	15	0.43	7.11	3.17E-10	0.001	16.08	152.651	1.02E-07	0.323
151	15.1	0.43	7.111	3.17E-10	0.001	16.06	153.295	1.02E-07	0.322
152	15.2	0.42	7.112	3.17E-10	0.001	16.03	153.938	1.02E-07	0.3215
153	15.3	0.42	7.113	3.17E-10	0.001	16.01	154.579	1.02E-07	0.3205
154	15.4	0.41	7.114	3.17E-10	0.001	15.98	155.219	1.01E-07	0.32
155	15.5	0.41	7.115	3.17E-10	0.001	15.96	155.857	1.01E-07	0.319
156	15.6	0.41	7.116	3.17E-10	0.001	15.93	156.493	1.01E-07	0.318
157	15.7	0.4	7.116	3.17E-10	0.001	15.91	157.128	1.01E-07	0.3175
158	15.8	0.4	7.117	3.17E-10	0.001	15.89	157.762	1.01E-07	0.317
159	15.9	0.39	7.118	3.17E-10	0.001	15.86	158.394	1.00E-07	0.316
160	16	0.39	7.119	3.17E-10	0.001	15.84	159.024	9.99E-08	0.315
161	16.1	0.39	7.12	3.17E-10	0.001	15.82	159.653	9.97E-08	0.3145
162	16.2	0.38	7.121	3.17E-10	0.001	15.79	160.28	9.94E-08	0.3135
163	16.3	0.38	7.122	3.17E-10	0.001	15.77	160.906	9.93E-08	0.313
164	16.4	0.38	7.122	3.17E-10	0.001	15.75	161.531	9.91E-08	0.3125
165	16.5	0.37	7.123	3.17E-10	0.001	15.72	162.154	9.88E-08	0.3115
166	16.6	0.37	7.124	3.17E-10	0.001	15.7	162.775	9.85E-08	0.3105
167	16.7	0.37	7.125	3.17E-10	0.001	15.68	163.395	9.83E-08	0.31
168	16.8	0.36	7.125	3.17E-10	0.001	15.66	164.014	9.81E-08	0.3095
169	16.9	0.36	7.126	3.17E-10	0.001	15.64	164.631	9.78E-08	0.3085
170	17	0.35	7.127	3.17E-10	0.001	15.61	165.247	9.77E-08	0.308
171	17.1	0.35	7.128	3.17E-10	0.001	15.59	165.862	9.75E-08	0.3075
172	17.2	0.35	7.128	3.17E-10	0.001	15.57	166.475	9.72E-08	0.3065
173	17.3	0.35	7.129	3.17E-10	0.001	15.55	167.087	9.70E-08	0.306
174	17.4	0.34	7.13	3.17E-10	0.001	15.53	167.698	9.69E-08	0.3055
175	17.5	0.34	7.13	3.17E-10	0.001	15.51	168.307	9.66E-08	0.3045
176	17.6	0.34	7.131	3.17E-10	0.001	15.49	168.915	9.64E-08	0.304
177	17.7	0.33	7.132	3.17E-10	0.001	15.47	169.522	9.62E-08	0.3035
178	17.8	0.33	7.132	3.17E-10	0.001	15.45	170.127	9.59E-08	0.3025
179	17.9	0.33	7.133	3.17E-10	0.001	15.43	170.731	9.58E-08	0.302
180	18	0.32	7.134	3.17E-10	0.001	15.41	171.334	9.56E-08	0.3015
181	18.1	0.32	7.134	3.17E-10	0.001	15.39	171.936	9.54E-08	0.301
182	18.2	0.32	7.135	3.17E-10	0.001	15.37	172.536	9.51E-08	0.3
183	18.3	0.32	7.135	3.17E-10	0.001	15.35	173.135	9.50E-08	0.2995
184	18.4	0.31	7.136	3.17E-10	0.001	15.33	173.733	9.48E-08	0.299
185	18.5	0.31	7.137	3.17E-10	0.001	15.31	174.33	9.47E-08	0.2985
186	18.6	0.31	7.137	3.17E-10	0.001	15.29	174.925	9.43E-08	0.2975
187	18.7	0.3	7.138	3.17E-10	0.001	15.27	175.52	9.43E-08	0.2975
188	18.8	0.3	7.138	3.17E-10	0.001	15.25	176.113	9.40E-08	0.2965
189	18.9	0.3	7.139	3.17E-10	0.001	15.23	176.705	9.39E-08	0.296
190	19	0.3	7.139	3.17E-10	0.001	15.21	177.295	9.35E-08	0.295
191	19.1	0.29	7.14	3.17E-10	0.001	15.19	177.885	9.35E-08	0.295
192	19.2	0.29	7.141	3.17E-10	0.001	15.18	178.473	9.32E-08	0.294
193	19.3	0.29	7.141	3.17E-10	0.001	15.16	179.061	9.32E-08	0.294
194	19.4	0.29	7.142	3.17E-10	0.001	15.14	179.647	9.29E-08	0.293
195	19.5	0.28	7.142	3.17E-10	0.001	15.12	180.232	9.28E-08	0.2925
196	19.6	0.28	7.143	3.17E-10	0.001	15.1	180.816	9.26E-08	0.292
197	19.7	0.28	7.143	3.17E-10	0.001	15.08	181.398	9.23E-08	0.291
198	19.8	0.28	7.144	3.17E-10	0.001	15.07	181.98	9.23E-08	0.291
199	19.9	0.28	7.144	3.17E-10	0.001	15.05	182.561	9.21E-08	0.2905
200	20	0.27	7.145	3.17E-10	0.001	15.03	183.14	9.18E-08	0.2895
201	20.1	0.27	7.145	3.17E-10	0.001	15.01	183.719	9.18E-08	0.2895
202	20.2	0.27	7.146	3.17E-10	0.001	15	184.296	9.15E-08	0.2885
203	20.3	0.27	7.146	3.17E-10	0.001	14.98	184.872	9.13E-08	0.288
204	20.4	0.26	7.146	3.17E-10	0.001	14.96	185.447	9.12E-08	0.2875
205	20.5	0.26	7.147	3.17E-10	0.001	14.95	186.022	9.12E-08	0.2875
206	20.6	0.26	7.147	3.17E-10	0.001	14.93	186.595	9.08E-08	0.2865
207	20.7	0.26	7.148	3.17E-10	0.001	14.91	187.167	9.07E-08	0.286
208	20.8	0.26	7.148	3.17E-10	0.001	14.9	187.738	9.05E-08	0.2855
209	20.9	0.25	7.149	3.17E-10	0.001	14.88	188.308	9.04E-08	0.285
210	21	0.25	7.149	0.00E+00	0	14.86	188.877	9.02E-08	0.2845
211	21.1	0.25	7.149	0.00E+00	0	14.85	189.445	9.01E-08	0.284
212	21.2	0.25	7.15	0.00E+00	0	14.83	190.012	8.99E-08	0.2835
213	21.3	0.25	7.15	0.00E+00	0	14.82	190.579	8.99E-08	0.2835
214	21.4	0.24	7.151	0.00E+00	0	14.8	191.144	8.96E-08	0.2825
215	21.5	0.24	7.151	0.00E+00	0	14.78	191.708	8.94E-08	0.282
216	21.6	0.24	7.151	0.00E+00	0	14.77	192.271	8.93E-08	0.2815
217	21.7	0.24	7.152	0.00E+00	0	14.75	192.833	8.91E-08	0.281
218	21.8	0.24	7.152	0.00E+00	0	14.74	193.395	8.91E-08	0.281
219	21.9	0.23	7.153	0.00E+00	0	14.72	193.955	8.88E-08	0.28
220	22	0.23	7.153	0.00E+00	0	14.71	194.514	8.86E-08	0.2795
221	22.1	0.23	7.153	0.00E+00	0	14.69	195.073	8.86E-08	0.2795
222	22.2	0.23	7.154	0.00E+00	0	14.68	195.63	8.83E-08	0.2785
223	22.3	0.23	7.154	0.00E+00	0	14.66	196.187	8.83E-08	0.2785
224	22.4	0.23	7.154	0.00E+00	0	14.65	196.743	8.82E-08	0.278
225	22.5	0.22	7.155	0.00E+00	0	14.63	197.297	8.78E-08	0.277
226	22.6	0.22	7.155	0.00E+00	0	14.62	197.851	8.78E-08	0.277
227	22.7	0.22	7.155	0.00E+00	0	14.6	198.404	8.77E-08	0.2765
228	22.8	0.22	7.156	0.00E+00	0	14.59	198.956	8.75E-08	0.276
229	22.9	0.22	7.156	0.00E+00	0	14.57	199.508	8.75E-08	0.276
230	23	0.22	7.156	0.00E+00	0	14.56	200.058	8.72E-08	0.275
231	23.1	0.21	7.157	0.00E+00	0	14.54	200.607	8.70E-08	0.2745
232	23.2	0.21	7.157	0.00E+00	0	14.53	201.156	8.70E-08	0.2745
233	23.3	0.21	7.157	0.00E+00	0	14.51	201.704	8.69E-08	0.274
234	23.4	0.21	7.158	0.00E+00	0	14.5	202.251	8.67E-08	0.2735
235	23.5	0.21	7.158	0.00E+00	0	14.49	202.797	8.66E-08	0.273
236	23.6	0.21	7.158	0.00E+00	0	14.47	203.342	8.64E-08	0.2725
237	23.7	0.2	7.159	0.00E+00	0	14.46	203.886	8.63E-08	0.272
238	23.8	0.2	7.159	0.00E+00	0	14.44	204.43	8.63E-08	0.272
239	23.9	0.2	7.159	0.00E+00	0	14.43	204.972	8.59E-08	0.271
240	24	0.2	7.16	0.00E+00	0	14.42	205.514	8.59E-08	0.271
241	24.1	0.2	7.16	0.00E+00	0	14.4	206.055	8.58E-08	0.2705
242	24.2	0.2	7.16	0.00E+00	0	14.39	206.595	8.56E-08	0.27
243	24.3	0.2	7.16	0.00E+00	0	14.38	207.135	8.56E-08	0.27
244	24.4	0.19	7.161	0.00E+00	0	14.36	207.673	8.53E-08	0.269
245	24.5	0.19	7.161	0.00E+00	0	14.35	208.211	8.53E-08	0.269
246	24.6	0.19	7.161	0.00E+00	0	14.34	208.748	8.51E-08	0.2685
247	24.7	0.19	7.162	0.00E+00	0	14.32	209.285	8.51E-08	0.2685
248	24.8	0.19	7.162	0.00E+00	0	14.31	209.82	8.48E-08	0.2675
249	24.9	0.19	7.162	0.00E+00	0	14.3	210.355	8.48E-08	0.2675
250	25	0.19	7.162	0.00E+00	0	14.28	210.888	8.45E-08	0.2665
251	25.1	0.19	7.163	0.00E+00	0	14.27	211.422	8.47E-08	0.267
252	25.2	0.18	7.163	0.00E+00	0	14.26	211.954	8.43E-08	0.266
253	25.3	0.18	7.163	0.00E+00	0	14.25	212.486	8.43E-08	0.266
254	25.4	0.18	7.163	0.00E+00	0	14.23	213.016	8.40E-08	0.265
255	25.5	0.18	7.164	0.00E+00	0	14.22	213.546	8.40E-08	0.265
256	25.6	0.18	7.164	0.00E+00	0	14.21	214.076	8.40E-08	0.265
257	25.7	0.18	7.164	0.00E+00	0	14.2	214.604	8.37E-08	0.264
258	25.8	0.18	7.164	0.00E+00	0	14.18	215.132	8.37E-08	0.264
259	25.9	0.18	7.165	0.00E+00	0	14.17	215.659	8.36E-08	0.2635
260	26	0.17	7.165	0.00E+00	0	14.16	216.186	8.36E-08	0.2635
261	26.1	0.17	7.165	0.00E+00	0	14.15	216.711	8.32E-08	0.2625
262	26.2	0.17	7.165	0.00E+00	0	14.14	217.236	8.32E-08	0.2625
263	26.3	0.17	7.165	0.00E+00	0	14.12	217.76	8.31E-08	0.262
264	26.4	0.17	7.166	0.00E+00	0	14.11	218.284	8.31E-08	0.262
265	26.5	0.17	7.166	0.00E+00	0	14.1	218.807	8.29E-08	0.2615
266	26.6	0.17	7.166	0.00E+00	0	14.09	219.329	8.28E-08	0.261
267	26.7	0.17	7.166	0.00E+00	0	14.08	219.85	8.26E-08	0.2605
268	26.8	0.16	7.167	0.00E+00	0	14.06	220.371	8.26E-08	0.2605
269	26.9	0.16	7.167	0.00E+00	0	14.05	220.891	8.24E-08	0.26
270	27	0.16	7.167	0.00E+00	0	14.04	221.41	8.23E-08	0.2595
271	27.1	0.16	7.167	0.00E+00	0	14.03	221.929	8.23E-08	0.2595
272	27.2	0.16	7.167	0.00E+00	0	14.02	222.447	8.21E-08	0.259
273	27.3	0.16	7.168	0.00E+00	0	14.01	222.964	8.20E-08	0.2585
274	27.4	0.16	7.168	0.00E+00	0	14	223.481	8.20E-08	0.2585
275	27.5	0.16	7.168	0.00E+00	0	13.98	223.997	8.18E-08	0.258
276	27.6	0.16	7.168	0.00E+00	0	13.97	224.512	8.17E-08	0.2575
277	27.7	0.16	7.168	0.00E+00	0	13.96	225.026	8.15E-08	0.257
278	27.8	0.15	7.169	0.00E+00	0	13.95	225.54	8.15E-08	0.257
279	27.9	0.15	7.169	0.00E+00	0	13.94	226.054	8.15E-08	0.257
280	28	0.15	7.169	0.00E+00	0	13.93	226.566	8.12E-08	0.256
281	28.1	0.15	7.169	0.00E+00	0	13.92	227.078	8.12E-08	0.256
282	28.2	0.15	7.169	0.00E+00	0	13.91	227.589	8.10E-08	0.2555
283	28.3	0.15	7.169	0.00E+00	0	13.9	228.1	8.10E-08	0.2555
284	28.4	0.15	7.17	0.00E+00	0	13.88	228.61	8.09E-08	0.255
285	28.5	0.15	7.17	0.00E+00	0	13.87	229.12	8.09E-08	0.255
286	28.6	0.15	7.17	0.00E+00	0	13.86	229.628	8.05E-08	0.254
287	28.7	0.15	7.17	0.00E+00	0	13.85	230.137	8.07E-08	0.2545
288	28.8	0.14	7.17	0.00E+00	0	13.84	230.644	8.04E-08	0.2535
289	28.9	0.14	7.171	0.00E+00	0	13.83	231.151	8.04E-08	0.2535
290	29	0.14	7.171	0.00E+00	0	13.82	231.657	8.02E-08	0.253
291	29.1	0.14	7.171	0.00E+00	0	13.81	232.163	8.02E-08	0.253
292	29.2	0.14	7.171	0.00E+00	0	13.8	232.668	8.01E-08	0.2525
293	29.3	0.14	7.171	0.00E+00	0	13.79	233.172	7.99E-08	0.252
294	29.4	0.14	7.171	0.00E+00	0	13.78	233.676	7.99E-08	0.252
295	29.5	0.14	7.172	0.00E+00	0	13.77	234.179	7.98E-08	0.2515
296	29.6	0.14	7.172	0.00E+00	0	13.76	234.682	7.98E-08	0.2515
297	29.7	0.14	7.172	0.00E+00	0	13.75	235.184	7.96E-08	0.251
298	29.8	0.14	7.172	0.00E+00	0	13.74	235.686	7.96E-08	0.251
299	29.9	0.13	7.172	0.00E+00	0	13.73	236.186	7.93E-08	0.25
300	30	0.13	7.172	0.00E+00	0	13.72	236.687	7.94E-08	0.2505
301	30.1	0.13	7.172	0.00E+00	0	13.71	237.186	7.91E-08	0.2495
302	30.2	0.13	7.173	0.00E+00	0	13.7	237.685	7.91E-08	0.2495
303	30.3	0.13	7.173	0.00E+00	0	13.69	238.184	7.91E-08	0.2495
304	30.4	0.13	7.173	0.00E+00	0	13.68	238.682	7.90E-08	0.249
305	30.5	0.13	7.173	0.00E+00	0	13.67	239.179	7.88E-08	0.2485
306	30.6	0.13	7.173	0.00E+00	0	13.66	239.676	7.88E-08	0.2485
307	30.7	0.13	7.173	0.00E+00	0	13.65	240.172	7.86E-08	0.248
308	30.8	0.13	7.173	0.00E+00	0	13.64	240.668	7.86E-08	0.248
309	30.9	0.13	7.174	0.00E+00	0	13.63	241.163	7.85E-08	0.2475
310	31	0.13	7.174	0.00E+00	0	13.62	241.658	7.85E-08	0.2475
311	31.1	0.13	7.174	0.00E+00	0	13.61	242.152	7.83E-08	0.247
312	31.2	0.12	7.174	0.00E+00	0	13.6	242.645	7.82E-08	0.2465
313	31.3	0.12	7.174	0.00E+00	0	13.59	243.138	7.82E-08	0.2465
314	31.4	0.12	7.174	0.00E+00	0	13.58	243.63	7.80E-08	0.246
315	31.5	0.12	7.174	0.00E+00	0	13.57	244.122	7.80E-08	0.246
316	31.6	0.12	7.175	0.00E+00	0	13.56	244.613	7.78E-08	0.2455
317	31.7	0.12	7.175	0.00E+00	0	13.55	245.104	7.78E-08	0.2455
318	31.8	0.12	7.175	0.00E+00	0	13.55	245.594	7.77E-08	0.245
319	31.9	0.12	7.175	0.00E+00	0	13.54	246.084	7.77E-08	0.245
320	32	0.12	7.175	0.00E+00	0	13.53	246.573	7.75E-08	0.2445
321	32.1	0.12	7.175	0.00E+00	0	13.52	247.062	7.75E-08	0.2445
322	32.2	0.12	7.175	0.00E+00	0	13.51	247.55	7.74E-08	0.244
323	32.3	0.12	7.175	0.00E+00	0	13.5	248.037	7.72E-08	0.2435
324	32.4	0.12	7.176	0.00E+00	0	13.49	248.524	7.72E-08	0.2435
325	32.5	0.12	7.176	0.00E+00	0	13.48	249.011	7.72E-08	0.2435
326	32.6	0.11	7.176	0.00E+00	0	13.47	249.497	7.71E-08	0.243
327	32.7	0.11	7.176	0.00E+00	0	13.46	249.982	7.69E-08	0.2425
328	32.8	0.11	7.176	0.00E+00	0	13.46	250.467	7.69E-08	0.2425
329	32.9	0.11	7.176	0.00E+00	0	13.45	250.952	7.69E-08	0.2425
330	33	0.11	7.176	0.00E+00	0	13.44	251.436	7.67E-08	0.242
331	33.1	0.11	7.176	0.00E+00	0	13.43	251.919	7.66E-08	0.2415
332	33.2	0.11	7.177	0.00E+00	0	13.42	252.402	7.66E-08	0.2415
333	33.3	0.11	7.177	0.00E+00	0	13.41	252.884	7.64E-08	0.241
334	33.4	0.11	7.177	0.00E+00	0	13.4	253.366	7.64E-08	0.241
335	33.5	0.11	7.177	0.00E+00	0	13.39	253.848	7.64E-08	0.241
336	33.6	0.11	7.177	0.00E+00	0	13.39	254.329	7.63E-08	0.2405
337	33.7	0.11	7.177	0.00E+00	0	13.38	254.809	7.61E-08	0.24
338	33.8	0.11	7.177	0.00E+00	0	13.37	255.289	7.61E-08	0.24
339	33.9	0.11	7.177	0.00E+00	0	13.36	255.768	7.59E-08	0.2395
340	34	0.11	7.177	0.00E+00	0	13.35	256.247	7.59E-08	0.2395
341	34.1	0.1	7.177	0.00E+00	0	13.34	256.726	7.59E-08	0.2395
342	34.2	0.1	7.178	0.00E+00	0	13.34	257.204	7.58E-08	0.239
343	34.3	0.1	7.178	0.00E+00	0	13.33	257.681	7.56E-08	0.2385
344	34.4	0.1	7.178	0.00E+00	0	13.32	258.158	7.56E-08	0.2385
345	34.5	0.1	7.178	0.00E+00	0	13.31	258.635	7.56E-08	0.2385
346	34.6	0.1	7.178	0.00E+00	0	13.3	259.111	7.55E-08	0.238
347	34.7	0.1	7.178	0.00E+00	0	13.29	259.587	7.55E-08	0.238
348	34.8	0.1	7.178	0.00E+00	0	13.29	260.062	7.53E-08	0.2375
349	34.9	0.1	7.178	0.00E+00	0	13.28	260.537	7.53E-08	0.2375
350	35	0.1	7.178	0.00E+00	0	13.27	261.011	7.52E-08	0.237
351	35.1	0.1	7.178	0.00E+00	0	13.26	261.485	7.52E-08	0.237
352	35.2	0.1	7.179	0.00E+00	0	13.25	261.958	7.50E-08	0.2365
353	35.3	0.1	7.179	0.00E+00	0	13.25	262.431	7.50E-08	0.2365
354	35.4	0.1	7.179	0.00E+00	0	13.24	262.903	7.48E-08	0.236
355	35.5	0.1	7.179	0.00E+00	0	13.23	263.375	7.48E-08	0.236
356	35.6	0.1	7.179	0.00E+00	0	13.22	263.847	7.48E-08	0.236
357	35.7	0.1	7.179	0.00E+00	0	13.21	264.318	7.47E-08	0.2355
358	35.8	0.1	7.179	0.00E+00	0	13.21	264.789	7.47E-08	0.2355
359	35.9	0.09	7.179	0.00E+00	0	13.2	265.259	7.45E-08	0.235
360	36	0.09	7.179	0.00E+00	0	13.19	265.728	7.44E-08	0.2345
361	36.1	0.09	7.179	0.00E+00	0	13.18	266.198	7.45E-08	0.235
362	36.2	0.09	7.179	0.00E+00	0	13.17	266.667	7.44E-08	0.2345
363	36.3	0.09	7.18	0.00E+00	0	13.17	267.135	7.42E-08	0.234
364	36.4	0.09	7.18	0.00E+00	0	13.16	267.603	7.42E-08	0.234
365	36.5	0.09	7.18	0.00E+00	0	13.15	268.07	7.40E-08	0.2335
366	36.6	0.09	7.18	0.00E+00	0	13.14	268.538	7.42E-08	0.234
367	36.7	0.09	7.18	0.00E+00	0	13.14	269.004	7.39E-08	0.233
368	36.8	0.09	7.18	0.00E+00	0	13.13	269.47	7.39E-08	0.233
369	36.9	0.09	7.18	0.00E+00	0	13.12	269.936	7.39E-08	0.233
370	37	0.09	7.18	0.00E+00	0	13.11	270.402	7.39E-08	0.233
371	37.1	0.09	7.18	0.00E+00	0	13.11	270.867	7.37E-08	0.2325
372	37.2	0.09	7.18	0.00E+00	0	13.1	271.331	7.36E-08	0.232
373	37.3	0.09	7.18	0.00E+00	0	13.09	271.795	7.36E-08	0.232
374	37.4	0.09	7.18	0.00E+00	0	13.08	272.259	7.36E-08	0.232
375	37.5	0.09	7.18	0.00E+00	0	13.08	272.722	7.34E-08	0.2315
376	37.6	0.09	7.181	0.00E+00	0	13.07	273.185	7.34E-08	0.2315
377	37.7	0.09	7.181	0.00E+00	0	13.06	273.647	7.32E-08	0.231
378	37.8	0.09	7.181	0.00E+00	0	13.06	274.11	7.34E-08	0.2315
379	37.9	0.08	7.181	0.00E+00	0	13.05	274.571	7.31E-08	0.2305
380	38	0.08	7.181	0.00E+00	0	13.04	275.032	7.31E-08	0.2305
381	38.1	0.08	7.181	0.00E+00	0	13.03	275.493	7.31E-08	0.2305
382	38.2	0.08	7.181	0.00E+00	0	13.03	275.954	7.31E-08	0.2305
383	38.3	0.08	7.181	0.00E+00	0	13.02	276.414	7.29E-08	0.23
384	38.4	0.08	7.181	0.00E+00	0	13.01	276.873	7.28E-08	0.2295
385	38.5	0.08	7.181	0.00E+00	0	13.01	277.332	7.28E-08	0.2295
386	38.6	0.08	7.181	0.00E+00	0	13	277.791	7.28E-08	0.2295
387	38.7	0.08	7.181	0.00E+00	0	12.99	278.25	7.28E-08	0.2295
388	38.8	0.08	7.181	0.00E+00	0	12.98	278.708	7.26E-08	0.229
389	38.9	0.08	7.181	0.00E+00	0	12.98	279.165	7.25E-08	0.2285
390	39	0.08	7.182	0.00E+00	0	12.97	279.622	7.25E-08	0.2285
391	39.1	0.08	7.182	0.00E+00	0	12.96	280.079	7.25E-08	0.2285
392	39.2	0.08	7.182	0.00E+00	0	12.96	280.536	7.25E-08	0.2285
393	39.3	0.08	7.182	0.00E+00	0	12.95	280.992	7.23E-08	0.228
394	39.4	0.08	7.182	0.00E+00	0	12.94	281.447	7.21E-08	0.2275
395	39.5	0.08	7.182	0.00E+00	0	12.94	281.903	7.23E-08	0.228
396	39.6	0.08	7.182	0.00E+00	0	12.93	282.358	7.21E-08	0.2275
397	39.7	0.08	7.182	0.00E+00	0	12.92	282.812	7.20E-08	0.227
398	39.8	0.08	7.182	0.00E+00	0	12.92	283.266	7.20E-08	0.227
399	39.9	0.08	7.182	0.00E+00	0	12.91	283.72	7.20E-08	0.227
400	40	0.08	7.182	0.00E+00	0	12.9	284.173	7.18E-08	0.2265
401	40.1	0.07	7.182	0.00E+00	0	12.9	284.626	7.18E-08	0.2265
402	40.2	0.07	7.182	0.00E+00	0	12.89	285.079	7.18E-08	0.2265
403	40.3	0.07	7.182	0.00E+00	0	12.88	285.531	7.17E-08	0.226
404	40.4	0.07	7.182	0.00E+00	0	12.88	285.983	7.17E-08	0.226
405	40.5	0.07	7.182	0.00E+00	0	12.87	286.435	7.17E-08	0.226
406	40.6	0.07	7.183	0.00E+00	0	12.86	286.886	7.15E-08	0.2255
407	40.7	0.07	7.183	0.00E+00	0	12.86	287.337	7.15E-08	0.2255
408	40.8	0.07	7.183	0.00E+00	0	12.85	287.787	7.13E-08	0.225
409	40.9	0.07	7.183	0.00E+00	0	12.84	288.237	7.13E-08	0.225
410	41	0.07	7.183	0.00E+00	0	12.84	288.687	7.13E-08	0.225
411	41.1	0.07	7.183	0.00E+00	0	12.83	289.136	7.12E-08	0.2245
412	41.2	0.07	7.183	0.00E+00	0	12.82	289.585	7.12E-08	0.2245
413	41.3	0.07	7.183	0.00E+00	0	12.82	290.034	7.12E-08	0.2245
414	41.4	0.07	7.183	0.00E+00	0	12.81	290.482	7.10E-08	0.224
415	41.5	0.07	7.183	0.00E+00	0	12.8	290.93	7.10E-08	0.224
416	41.6	0.07	7.183	0.00E+00	0	12.8	291.377	7.09E-08	0.2235
417	41.7	0.07	7.183	0.00E+00	0	12.79	291.824	7.09E-08	0.2235
418	41.8	0.07	7.183	0.00E+00	0	12.79	292.271	7.09E-08	0.2235
419	41.9	0.07	7.183	0.00E+00	0	12.78	292.718	7.09E-08	0.2235
420	42	0.07	7.183	0.00E+00	0	12.77	293.164	7.07E-08	0.223
421	42.1	0.07	7.183	0.00E+00	0	12.77	293.61	7.07E-08	0.223
422	42.2	0.07	7.183	0.00E+00	0	12.76	294.055	7.06E-08	0.2225
423	42.3	0.07	7.183	0.00E+00	0	12.75	294.5	7.06E-08	0.2225

SCG1B

Time @ a = 0.75 t_w (years): 2.7	a @ 0.75 t_w (mm): 30.725	2c @ 0.75 t_w (mm): 197.959

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

Comments or Notes Pertaining to Analysis: WRS4 expressed as 3'rd order polynomial

Time Block n°	Time (Year)	Depth K_{Iat} (MPa√m)	Depth a (mm)	Depth da/dt (mm/s)	Depth Δa (mm)	Surface K_{Ict} (MPa√m)	Surface 2c (mm)	Surface dc/dt (mm/s)	Surface Δc (mm)
0	0	44.08	3	0.00E+00	0	31.955	18	0.00E+00	0
1	0.1	47.219	4.617	5.13E-07	1.617	43.435	19.933	3.07E-07	0.967
2	0.2	48.228	6.423	5.72E-07	1.805	52.484	23.092	5.01E-07	1.58
3	0.3	48.057	8.29	5.92E-07	1.868	59.541	27.368	6.78E-07	2.138
4	0.4	47.134	10.147	5.89E-07	1.857	65.247	32.601	8.30E-07	2.616
5	0.5	45.681	11.947	5.71E-07	1.8	69.978	38.659	9.60E-07	3.029
6	0.6	43.891	13.66	5.43E-07	1.712	73.942	45.435	1.07E-06	3.388
7	0.7	41.937	15.266	5.09E-07	1.606	77.275	52.835	1.17E-06	3.7
8	0.8	39.967	16.759	4.74E-07	1.493	80.078	60.776	1.26E-06	3.971
9	0.9	38.083	18.142	4.38E-07	1.383	82.434	69.183	1.33E-06	4.203
10	1	36.353	19.421	4.06E-07	1.28	84.418	77.989	1.40E-06	4.403
11	1.1	34.834	20.61	3.77E-07	1.188	86.092	87.137	1.45E-06	4.574
12	1.2	33.522	21.719	3.52E-07	1.11	87.515	96.577	1.50E-06	4.72
13	1.3	32.407	22.763	3.31E-07	1.044	88.735	106.267	1.54E-06	4.845
14	1.4	31.53	23.751	3.13E-07	0.989	89.789	116.175	1.57E-06	4.954
15	1.5	30.854	24.697	3.00E-07	0.946	90.715	126.271	1.60E-06	5.048
16	1.6	30.37	25.611	2.90E-07	0.914	91.542	136.535	1.63E-06	5.132
17	1.7	30.132	26.502	2.83E-07	0.891	92.29	146.949	1.65E-06	5.207
18	1.8	30.067	27.382	2.79E-07	0.88	92.982	157.499	1.67E-06	5.275
19	1.9	30.282	28.259	2.78E-07	0.877	93.624	168.176	1.69E-06	5.339
20	2	30.714	29.146	2.81E-07	0.887	94.228	178.972	1.71E-06	5.398
21	2.1	31.491	30.053	2.88E-07	0.907	94.784	189.879	1.73E-06	5.453
22	2.2	32.628	30.998	2.99E-07	0.944	95.278	200.889	1.75E-06	5.505
23	2.3	34.268	31.997	3.17E-07	0.999	95.661	211.991	1.76E-06	5.551
24	2.4	36.672	33.078	3.43E-07	1.081	95.835	223.164	1.77E-06	5.587
25	2.5	40.158	34.283	3.82E-07	1.205	95.582	234.371	1.78E-06	5.603
26	2.6	45.546	35.676	4.42E-07	1.393	94.371	245.529	1.77E-06	5.579
27	2.7	54.701	37.38	5.40E-07	1.704	90.679	256.463	1.73E-06	5.467

SCG1C

Time @ a = 0.75 t_w (years):3.3	3.3	a @ 0.75 t_w (mm):30.562	2c @ 0.75 t_w (mm):214.836

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

Comments or Notes Pertaining to Analysis: WRS4 expressed in tabular form; K determination is made with universal weight function that perfoems segment-wise polynomial interpolation of tabular stress input

Time Block n°	Time (Year)	Depth K_{Iat} (MPa√m)	Depth a (mm)	Depth da/dt (mm/s)	Depth Δa (mm)	Surface K_{Ict} (MPa√m)	Surface 2c (mm)	Surface dc/dt (mm/s)	Surface Δc (mm)
0	0	38.177	3	0.00E+00	0	25.255	18	0.00E+00	0
1	0.1	43.738	4.285	4.07E-07	1.285	33.214	19.327	2.10E-07	0.663
2	0.2	49.154	5.882	5.06E-07	1.597	41.134	21.383	3.26E-07	1.028
3	0.3	53.387	7.807	6.10E-07	1.925	48.987	24.279	4.59E-07	1.448
4	0.4	54.447	10.005	6.97E-07	2.197	56.625	28.108	6.07E-07	1.915
5	0.5	51.199	12.272	7.19E-07	2.267	63.519	32.937	7.66E-07	2.414
6	0.6	45.363	14.327	6.52E-07	2.055	69.107	38.74	9.20E-07	2.902
7	0.7	39.498	16.02	5.37E-07	1.693	73.282	45.382	1.05E-06	3.321
8	0.8	34.825	17.377	4.30E-07	1.357	76.276	52.676	1.16E-06	3.647
9	0.9	31.309	18.486	3.52E-07	1.109	78.381	60.454	1.23E-06	3.889
10	1	28.619	19.422	2.97E-07	0.936	79.829	68.577	1.29E-06	4.062
11	1.1	26.727	20.232	2.57E-07	0.81	80.79	76.943	1.33E-06	4.183
12	1.2	25.184	20.958	2.30E-07	0.726	81.416	85.469	1.35E-06	4.263
13	1.3	24.165	21.619	2.09E-07	0.66	81.795	94.102	1.37E-06	4.316
14	1.4	23.358	22.237	1.96E-07	0.618	82.023	102.8	1.38E-06	4.349
15	1.5	22.817	22.822	1.86E-07	0.585	82.147	111.536	1.39E-06	4.368
16	1.6	22.562	23.386	1.79E-07	0.564	82.216	120.293	1.39E-06	4.379
17	1.7	22.429	23.94	1.76E-07	0.554	82.272	129.062	1.39E-06	4.384
18	1.8	22.546	24.489	1.74E-07	0.549	82.334	137.84	1.39E-06	4.389
19	1.9	22.892	25.042	1.75E-07	0.553	82.434	146.629	1.39E-06	4.395
20	2	23.388	25.609	1.80E-07	0.567	82.595	155.435	1.40E-06	4.403
21	2.1	24.186	26.196	1.86E-07	0.587	82.829	164.269	1.40E-06	4.417
22	2.2	25.271	26.815	1.96E-07	0.619	83.165	173.143	1.41E-06	4.437
23	2.3	26.671	27.479	2.11E-07	0.664	83.624	182.074	1.42E-06	4.466
24	2.4	28.542	28.202	2.30E-07	0.724	84.225	191.085	1.43E-06	4.505
25	2.5	30.968	29.009	2.56E-07	0.807	84.993	200.199	1.45E-06	4.557
26	2.6	34.131	29.928	2.91E-07	0.919	85.941	209.447	1.47E-06	4.624
27	2.7	38.28	31.002	3.41E-07	1.074	87.05	218.86	1.49E-06	4.707
28	2.8	43.703	32.293	4.09E-07	1.29	88.212	228.469	1.52E-06	4.804
29	2.9	50.576	33.888	5.06E-07	1.595	89.033	238.283	1.56E-06	4.907
30	3	58.731	35.903	6.39E-07	2.015	88.237	248.244	1.58E-06	4.98

SCG1D

Time @ a = 0.75 t_w (years):	a @ 0.75 t_w (mm):	2c @ 0.75 t_w (mm):

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

Comments or Notes Pertaining to Analysis:

Time Block n°	Time (Year)	Depth K_{Iat} (MPa√m)	Depth a (mm)	Depth da/dt (mm/s)	Depth Δa (mm)	Surface K_{Ict} (MPa√m)	Surface 2c (mm)	Surface dc/dt (mm/s)	Surface Δc (mm)
0	0.0		3.0		0.00		18.00		0.00
1									
2									
..	..								

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

424	42.4	0.07	7.184	0.00E+00	0	12.75	294.945	7.06E-08	0.2225
425	42.5	0.07	7.184	0.00E+00	0	12.74	295.389	7.04E-08	0.222
426	42.6	0.07	7.184	0.00E+00	0	12.74	295.833	7.04E-08	0.222
427	42.7	0.07	7.184	0.00E+00	0	12.73	296.277	7.04E-08	0.222
428	42.8	0.06	7.184	0.00E+00	0	12.72	296.72	7.02E-08	0.2215
429	42.9	0.06	7.184	0.00E+00	0	12.72	297.164	7.02E-08	0.2215
430	43	0.06	7.184	0.00E+00	0	12.71	297.608	7.02E-08	0.2215
431	43.1	0.06	7.184	0.00E+00	0	12.71	298.048	7.01E-08	0.221
432	43.2	0.06	7.184	0.00E+00	0	12.7	298.49	7.01E-08	0.221
433	43.3	0.06	7.184	0.00E+00	0	12.69	298.932	7.01E-08	0.221
434	43.4	0.06	7.184	0.00E+00	0	12.69	299.374	6.99E-08	0.2205
435	43.5	0.06	7.184	0.00E+00	0	12.68	299.815	6.99E-08	0.2205
436	43.6	0.06	7.184	0.00E+00	0	12.68	300.255	6.98E-08	0.22
437	43.7	0.06	7.184	0.00E+00	0	12.67	300.696	6.98E-08	0.2205
438	43.8	0.06	7.184	0.00E+00	0	12.66	301.136	6.98E-08	0.22
439	43.9	0.06	7.184	0.00E+00	0	12.66	301.575	6.96E-08	0.2195
440	44	0.06	7.184	0.00E+00	0	12.65	302.015	6.98E-08	0.22
441	44.1	0.06	7.184	0.00E+00	0	12.65	302.454	6.96E-08	0.2195
442	44.2	0.06	7.184	0.00E+00	0	12.64	302.893	6.96E-08	0.2195
443	44.3	0.06	7.184	0.00E+00	0	12.64	303.331	6.94E-08	0.219
444	44.4	0.06	7.184	0.00E+00	0	12.63	303.769	6.94E-08	0.219
445	44.5	0.06	7.184	0.00E+00	0	12.62	304.207	6.94E-08	0.219
446	44.6	0.06	7.185	0.00E+00	0	12.62	304.644	6.93E-08	0.2185
447	44.7	0.06	7.185	0.00E+00	0	12.61	305.082	6.93E-08	0.2185
448	44.8	0.06	7.185	0.00E+00	0	12.61	305.519	6.93E-08	0.2185
449	44.9	0.06	7.185	0.00E+00	0	12.6	305.955	6.93E-08	0.2185
450	45	0.06	7.185	0.00E+00	0	12.6	306.391	6.91E-08	0.218
451	45.1	0.06	7.185	0.00E+00	0	12.59	306.827	6.91E-08	0.218
452	45.2	0.06	7.185	0.00E+00	0	12.58	307.263	6.91E-08	0.218
453	45.3	0.06	7.185	0.00E+00	0	12.58	307.698	6.91E-08	0.218
454	45.4	0.06	7.185	0.00E+00	0	12.57	308.132	6.89E-08	0.217
455	45.5	0.06	7.185	0.00E+00	0	12.57	308.567	6.90E-08	0.2175
456	45.6	0.06	7.185	0.00E+00	0	12.56	309.001	6.89E-08	0.217
457	45.7	0.06	7.185	0.00E+00	0	12.56	309.435	6.89E-08	0.217
458	45.8	0.06	7.185	0.00E+00	0	12.55	309.869	6.88E-08	0.217
459	45.9	0.06	7.185	0.00E+00	0	12.55	310.303	6.88E-08	0.217
460	46	0.05	7.185	0.00E+00	0	12.54	310.736	6.87E-08	0.2165
461	46.1	0.05	7.185	0.00E+00	0	12.53	311.168	6.85E-08	0.216
462	46.2	0.05	7.185	0.00E+00	0	12.53	311.601	6.85E-08	0.216
463	46.3	0.05	7.185	0.00E+00	0	12.52	312.033	6.85E-08	0.216
464	46.4	0.05	7.185	0.00E+00	0	12.52	312.465	6.85E-08	0.216
465	46.5	0.05	7.185	0.00E+00	0	12.51	312.897	6.86E-08	0.216
466	46.6	0.05	7.185	0.00E+00	0	12.51	313.328	6.83E-08	0.2155
467	46.7	0.05	7.185	0.00E+00	0	12.5	313.759	6.83E-08	0.2155
468	46.8	0.05	7.185	0.00E+00	0	12.5	314.19	6.83E-08	0.2155
469	46.9	0.05	7.185	0.00E+00	0	12.49	314.62	6.82E-08	0.2155
470	47	0.05	7.185	0.00E+00	0	12.49	315.05	6.82E-08	0.215
471	47.1	0.05	7.185	0.00E+00	0	12.48	315.48	6.82E-08	0.215
472	47.2	0.05	7.186	0.00E+00	0	12.48	315.909	6.82E-08	0.2155
473	47.3	0.05	7.185	0.00E+00	0	12.47	316.339	6.82E-08	0.215
474	47.4	0.05	7.186	0.00E+00	0	12.46	316.768	6.80E-08	0.2145
475	47.5	0.05	7.186	0.00E+00	0	12.46	317.196	6.79E-08	0.214
476	47.6	0.05	7.186	0.00E+00	0	12.45	317.625	6.80E-08	0.2145
477	47.7	0.05	7.186	0.00E+00	0	12.45	318.053	6.77E-08	0.2135
478	47.8	0.05	7.186	0.00E+00	0	12.44	318.48	6.77E-08	0.2135
479	47.9	0.05	7.186	0.00E+00	0	12.44	318.908	6.79E-08	0.214
480	48	0.05	7.186	0.00E+00	0	12.43	319.335	6.77E-08	0.2135
481	48.1	0.05	7.186	0.00E+00	0	12.43	319.762	6.77E-08	0.2135
482	48.2	0.05	7.186	0.00E+00	0	12.42	320.189	6.75E-08	0.2125
483	48.3	0.05	7.186	0.00E+00	0	12.42	320.615	6.75E-08	0.213
484	48.4	0.05	7.186	0.00E+00	0	12.41	321.041	6.75E-08	0.213
485	48.5	0.05	7.186	0.00E+00	0	12.41	321.467	6.75E-08	0.213
486	48.6	0.05	7.186	0.00E+00	0	12.4	321.893	6.75E-08	0.213
487	48.7	0.05	7.186	0.00E+00	0	12.39	322.318	6.74E-08	0.2125
488	48.8	0.05	7.186	0.00E+00	0	12.39	322.743	6.74E-08	0.2125
489	48.9	0.05	7.186	0.00E+00	0	12.39	323.168	6.74E-08	0.2125
490	49	0.05	7.186	0.00E+00	0	12.38	323.592	6.72E-08	0.212
491	49.1	0.05	7.186	0.00E+00	0	12.38	324.016	6.72E-08	0.212
492	49.2	0.05	7.186	0.00E+00	0	12.37	324.44	6.72E-08	0.212
493	49.3	0.05	7.186	0.00E+00	0	12.37	324.864	6.72E-08	0.212
494	49.4	0.05	7.186	0.00E+00	0	12.36	325.287	6.71E-08	0.2115
495	49.5	0.05	7.186	0.00E+00	0	12.36	325.71	1.34E-07	0.423
496	49.6	0.05	7.186	0.00E+00	0	12.35	326.133	1.34E-07	0.423
497	49.7	0.05	7.186	0.00E+00	0	12.35	326.555	1.34E-07	0.423
498	49.8	0.05	7.186	0.00E+00	0	12.34	326.977	1.34E-07	0.422
499	49.9	0.04	7.186	0.00E+00	0	12.34	327.399	1.34E-07	0.422
500	50	0.04	7.186	0.00E+00	0	12.33	327.821	1.34E-07	0.422

Participating Organization:	TRACTEBEL	Reporting Date:	11/29/2023

Codes and Procedures Used in Analysis (add space as needed)

	Name and Version #	List any code or analysis limitations for these problems (e.g., utilizes flat-plate K-solutions)	List any analysis assumptions		Briefly describe the approach used to incorporate WRS within the evaluation	
Task 1: PWSCC Code(s)	TEEPAC 5.3	SIF KI are calculated with solution for surface flaw in TUBES (TUB-CDSI solution from RSE-M french)	Shape factor a/c is considered as variable during crack growth		* For all the problems (except SCG1D), the WRS distribution is simply added to the other stresses. * For SCG1D, the WRS is added with a pressure acting on the crack, which acts as a PRIMARY stress.	
Task 1 (SCG1D): Advanced FE Crack Growth Code(s)	Morfeo Crack 3.3	SIF KI are calculated by XFEM whole along the crack front	Free shape factor a/c		* For SCG1D, the WRS is added with a pressure acting on the crack, which acts as a PRIMARY stress.	

Quantitative Outputs (add space as needed)

2

SCG Task: Task 1: PWSCC Crack Growth

Analysis ID:

SCG1A

Time @ a = 0.75 t_w (years): 50 | a @ 0.75 t_w (mm): 7.14 | 2c @ 0.75 t_w (mm): 419.30 | Circ: 1005.31

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

Comments or Notes Pertaining to Analysis: Only Kiat and Kict at first time step and at last time step are extracted from the listing. The crack depth does not reach 75% thickness

Time Block n°	Time (Year)	Depth K_{Iat} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	a/t %	Surface K_{Ict} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)	teta/pi (-)
0	0.0	16.55	3.00	-	0.00	8%	20.01	18.00	-	0.00	0.02
1	0.5		4.69	1.07E-07	1.69E+00	12%		22.58	1.45E-07	2.29E+00	0.02
2	1.0		5.36		6.73E-01	13%		28.86		3.14E+00	0.03
3	1.5		5.76		3.96E-01	14%		35.26		3.20E+00	0.04
4	2.0		6.02		2.65E-01	15%		41.60		3.17E+00	0.04
5	2.5		6.21		1.89E-01	16%		47.84		3.13E+00	0.05
6	3.0		6.35		1.41E-01	16%		54.02		3.09E+00	0.05
7	3.5		6.46		1.09E-01	16%		60.02		3.00E+00	0.06
8	4.0		6.54		8.57E-02	16%		65.80		2.89E+00	0.07
9	4.5		6.61		6.91E-02	17%		71.42		2.81E+00	0.07
10	5.0		6.67		5.67E-02	17%		76.90		2.74E+00	0.08
11	5.5		6.72		4.73E-02	17%		82.24		2.68E+00	0.08
12	6.0		6.76		3.99E-02	17%		87.50		2.62E+00	0.09
13	6.5		6.79		3.42E-02	17%		92.66		2.58E+00	0.09
14	7.0		6.82		2.95E-02	17%		97.72		2.54E+00	0.10
15	7.5		6.85		2.57E-02	17%		102.74		2.50E+00	0.10
16	8.0		6.87		2.26E-02	17%		107.68		2.47E+00	0.11
17	8.5		6.89		2.00E-02	17%		112.56		2.44E+00	0.11
18	9.0		6.91		1.79E-02	17%		117.38		2.40E+00	0.12
19	9.5		6.92		1.60E-02	17%		122.08		2.35E+00	0.12
20	10.0		6.94		1.45E-02	17%		126.68		2.30E+00	0.13
21	10.5		6.95		1.31E-02	17%		131.20		2.26E+00	0.13
22	11.0		6.96		1.19E-02	17%		135.64		2.22E+00	0.13
23	11.5		6.97		1.09E-02	17%		140.00		2.18E+00	0.14
24	12.0		6.98		1.00E-02	17%		144.30		2.15E+00	0.14
25	12.5		6.99		9.20E-03	17%		148.54		2.12E+00	0.15
26	13.0		7.00		8.49E-03	18%		152.72		2.09E+00	0.15
27	13.5		7.01		7.86E-03	18%		156.86		2.07E+00	0.16
28	14.0		7.02		7.30E-03	18%		160.94		2.04E+00	0.16
29	14.5		7.02		6.79E-03	18%		164.98		2.02E+00	0.16
30	15.0		7.03		6.34E-03	18%		168.96		2.00E+00	0.17
31	15.5		7.04		5.92E-03	18%		172.92		1.98E+00	0.17
32	16.0		7.04		5.55E-03	18%		176.84		1.96E+00	0.18
33	16.5		7.05		5.21E-03	18%		180.70		1.94E+00	0.18
34	17.0		7.05		4.90E-03	18%		184.54		1.92E+00	0.18
35	17.5		7.06		4.62E-03	18%		188.36		1.90E+00	0.19
36	18.0		7.06		4.36E-03	18%		192.14		1.89E+00	0.19
37	18.5		7.06		4.13E-03	18%		195.88		1.87E+00	0.19
38	19.0		7.07		3.91E-03	18%		199.60		1.86E+00	0.20
39	19.5		7.07		3.71E-03	18%		203.30		1.85E+00	0.20
40	20.0		7.08		3.52E-03	18%		206.96		1.83E+00	0.21
41	20.5		7.08		3.35E-03	18%		210.60		1.82E+00	0.21
42	21.0		7.08		3.19E-03	18%		214.22		1.81E+00	0.21
43	21.5		7.09		3.04E-03	18%		217.82		1.80E+00	0.22
44	22.0		7.09		2.90E-03	18%		221.40		1.79E+00	0.22
45	22.5		7.09		2.78E-03	18%		224.96		1.78E+00	0.22
46	23.0		7.09		2.66E-03	18%		228.48		1.77E+00	0.23
47	23.5		7.10		2.51E-03	18%		232.02		1.77E+00	0.23
48	24.0		7.10		2.35E-03	18%		235.56		1.77E+00	0.23
49	24.5		7.10		2.20E-03	18%		239.08		1.77E+00	0.24
50	25.0		7.10		2.06E-03	18%		242.62		1.77E+00	0.24
51	25.5		7.11		1.94E-03	18%		246.16		1.77E+00	0.24
52	26.0		7.11		1.82E-03	18%		249.68		1.77E+00	0.25
53	26.5		7.11		1.72E-03	18%		253.22		1.77E+00	0.25
54	27.0		7.11		1.62E-03	18%		256.76		1.77E+00	0.26
55	27.5		7.11		1.53E-03	18%		260.28		1.77E+00	0.26
56	28.0		7.11		1.45E-03	18%		263.82		1.77E+00	0.26
57	28.5		7.11		1.38E-03	18%		267.36		1.77E+00	0.27
58	29.0		7.12		1.31E-03	18%		270.88		1.77E+00	0.27
59	29.5		7.12		1.24E-03	18%		274.42		1.77E+00	0.27
60	30.0		7.12		1.18E-03	18%		277.96		1.77E+00	0.28
61	30.5		7.12		1.13E-03	18%		281.48		1.77E+00	0.28
62	31.0		7.12		1.08E-03	18%		285.02		1.77E+00	0.28
63	31.5		7.12		1.03E-03	18%		288.56		1.77E+00	0.29
64	32.0		7.12		9.82E-04	18%		292.10		1.77E+00	0.29
65	32.5		7.12		9.40E-04	18%		295.62		1.77E+00	0.29
66	33.0		7.12		9.00E-04	18%		299.16		1.77E+00	0.30
67	33.5		7.13		8.63E-04	18%		302.70		1.77E+00	0.30
68	34.0		7.13		8.28E-04	18%		306.22		1.77E+00	0.30
69	34.5		7.13		7.95E-04	18%		309.76		1.77E+00	0.31
70	35.0		7.13		7.64E-04	18%		313.30		1.77E+00	0.31
71	35.5		7.13		7.35E-04	18%		316.82		1.77E+00	0.32
72	36.0		7.13		7.08E-04	18%		320.36		1.77E+00	0.32
73	36.5		7.13		6.82E-04	18%		323.90		1.77E+00	0.32
74	37.0		7.13		6.57E-04	18%		327.42		1.77E+00	0.33
75	37.5		7.13		6.34E-04	18%		330.96		1.77E+00	0.33
76	38.0		7.13		6.11E-04	18%		334.50		1.77E+00	0.33
77	38.5		7.13		5.91E-04	18%		338.02		1.77E+00	0.34
78	39.0		7.13		5.71E-04	18%		341.56		1.77E+00	0.34
79	39.5		7.13		5.52E-04	18%		345.10		1.77E+00	0.34
80	40.0		7.13		5.34E-04	18%		348.64		1.77E+00	0.35
81	40.5		7.13		5.17E-04	18%		352.16		1.77E+00	0.35
82	41.0		7.13		5.00E-04	18%		355.70		1.77E+00	0.35
83	41.5		7.14		4.85E-04	18%		359.24		1.77E+00	0.36
84	42.0		7.14		4.70E-04	18%		362.76		1.77E+00	0.36
85	42.5		7.14		4.56E-04	18%		366.30		1.77E+00	0.36
86	43.0		7.14		4.42E-04	18%		369.84		1.77E+00	0.37
87	43.5		7.14		4.29E-04	18%		373.36		1.77E+00	0.37
88	44.0		7.14		4.17E-04	18%		376.90		1.77E+00	0.37
89	44.5		7.14		4.05E-04	18%		380.44		1.77E+00	0.38
90	45.0		7.14		3.94E-04	18%		383.96		1.77E+00	0.38
91	45.5		7.14		3.83E-04	18%		387.50		1.77E+00	0.39
92	46.0		7.14		3.73E-04	18%		391.04		1.77E+00	0.39
93	46.5		7.14		3.63E-04	18%		394.56		1.77E+00	0.39
94	47.0		7.14		3.53E-04	18%		398.10		1.77E+00	0.40
95	47.5		7.14		3.44E-04	18%		401.64		1.77E+00	0.40
96	48.0		7.14		3.35E-04	18%		405.16		1.77E+00	0.40
97	48.5		7.14		3.26E-04	18%		408.70		1.77E+00	0.41
98	49.0		7.14		3.18E-04	18%		412.24		1.77E+00	0.41
99	49.5		7.14		3.10E-04	18%		415.78		1.77E+00	0.41
100	50.0	0.08	7.14		3.03E-04	18%	17.03	419.30		1.77E+00	0.42

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

SCG1B

Time @ a = 0.75 t_w (years): 2.07 | a @ 0.75 t_w (mm): 30 | 2c @ 0.75 t_w (mm): 174.8 | Circ: 1005.3

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

Comments or Notes Pertaining to Analysis: Only Kiat and Kict at first time step and at last time step are extracted from the listing. The crack depth reaches 75% thickness. Time is interpolated linearly

Time Block n°	Time (Year)	Depth K_{Iat} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	a/t %	Surface K_{Ict} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)	teta/pi (-)
0	0.00	43.63	3.0	-	0.00	8%	30.57	18.00	-	0.00	0.02
1	0.05		3.8	5.04E-07	7.96E-01	10%		18.90	2.86E-07	4.51E-01	0.02
2	0.10		4.7		8.50E-01	12%		20.08		5.89E-01	0.02
3	0.15		5.5		8.84E-01	14%		21.56		7.36E-01	0.02
4	0.20		6.4		9.03E-01	16%		23.30		8.75E-01	0.02
5	0.25		7.4		9.15E-01	18%		25.26		9.82E-01	0.03
6	0.30		8.3		9.15E-01	21%		27.44		1.08E+00	0.03
7	0.35		9.2		9.08E-01	23%		29.80		1.18E+00	0.03
8	0.40		10.1		8.98E-01	25%		32.36		1.28E+00	0.03
9	0.45		11.0		8.83E-01	27%		35.08		1.37E+00	0.03
10	0.50		11.8		8.63E-01	30%		38.00		1.45E+00	0.04
11	0.55		12.7		8.40E-01	32%		41.06		1.53E+00	0.04
12	0.60		13.5		8.15E-01	34%		44.28		1.61E+00	0.04
13	0.65		14.3		7.89E-01	36%		47.64		1.68E+00	0.05
14	0.70		15.0		7.61E-01	38%		51.12		1.74E+00	0.05
15	0.75		15.8		7.34E-01	39%		54.72		1.80E+00	0.05
16	0.80		16.5		7.06E-01	41%		58.42		1.85E+00	0.06
17	0.85		17.1		6.80E-01	43%		62.24		1.91E+00	0.06
18	0.90		17.8		6.56E-01	45%		66.18		1.97E+00	0.07
19	0.95		18.4		6.32E-01	46%		70.22		2.02E+00	0.07
20	1.00		19.0		6.09E-01	48%		74.36		2.07E+00	0.07
21	1.05		19.6		5.88E-01	49%		78.58		2.12E+00	0.08
22	1.10		20.2		5.68E-01	50%		82.92		2.16E+00	0.08
23	1.15		20.8		5.58E-01	52%		87.28		2.18E+00	0.09
24	1.20		21.3		5.48E-01	53%		91.68		2.20E+00	0.09
25	1.25		21.8		5.38E-01	55%		96.14		2.22E+00	0.10
26	1.30		22.4		5.29E-01	56%		100.62		2.24E+00	0.10
27	1.35		22.9		5.20E-01	57%		105.14		2.26E+00	0.10
28	1.40		23.4		5.12E-01	59%		109.70		2.28E+00	0.11
29	1.45		23.9		5.05E-01	60%		114.30		2.30E+00	0.11
30	1.50		24.4		4.99E-01	61%		118.94		2.32E+00	0.12
31	1.55		24.9		4.94E-01	62%		123.60		2.34E+00	0.12
32	1.60		25.4		4.89E-01	63%		128.32		2.36E+00	0.13
33	1.65		25.9		4.86E-01	65%		133.08		2.38E+00	0.13
34	1.70		26.4		4.84E-01	66%		137.90		2.40E+00	0.14
35	1.75		26.8		4.83E-01	67%		142.74		2.42E+00	0.14
36	1.80		27.3		4.84E-01	68%		147.64		2.45E+00	0.15
37	1.85		27.8		4.85E-01	70%		152.58		2.47E+00	0.15
38	1.90		28.3		4.89E-01	71%		157.56		2.49E+00	0.16
39	1.95		28.8		4.94E-01	72%		162.58		2.51E+00	0.16
40	2.00		29.3		5.01E-01	73%		167.64		2.53E+00	0.17
41	2.05		29.8		5.10E-01	75%		172.76		2.56E+00	0.17
42	2.10		30.3		5.21E-01	76%		177.92		2.58E+00	0.18
43	2.15		30.9		5.36E-01	77%		183.14		2.61E+00	0.18
44	2.20		31.4		5.54E-01	79%		188.40		2.63E+00	0.19
45	2.25		32.0		5.77E-01	80%		193.70		2.66E+00	0.19
46	2.30		32.6		6.05E-01	81%		199.08		2.68E+00	0.20
47	2.35		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
48	2.40		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
49	2.45		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
50	2.50		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
51	2.55		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
52	2.60		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
53	2.65		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
54	2.70		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
55	2.75		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
56	2.80		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
57	2.85		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
58	2.90		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
59	2.95		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
60	3.00		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
61	3.05		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
62	3.10		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
63	3.15		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
64	3.20		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
65	3.25		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
66	3.30		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
67	3.35		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
68	3.40		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
69	3.45		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
70	3.50		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
71	3.55		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
72	3.60		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
73	3.65		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
74	3.70		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
75	3.75		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
76	3.80		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
77	3.85		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
78	3.90		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
79	3.95		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
80	4.00		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
81	4.05		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
82	4.10		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
83	4.15		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
84	4.20		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
85	4.25		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
86	4.30		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
87	4.35		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
88	4.40		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
89	4.45		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
90	4.50		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
91	4.55		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
92	4.60		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
93	4.65		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
94	4.70		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
95	4.75		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
96	4.80		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
97	4.85		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
98	4.90		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
99	4.95		32.6		0.00E+00	81%		199.08		0.00E+00	0.20
100	5.00		32.6		0.00E+00	81%		199.08		0.00E+00	0.20

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

SCG1C

Time @ a = 0.75 t_w (years): 2.54 | a @ 0.75 t_w (mm): 30 | 2c @ 0.75 t_w (mm): 195.6 | Circ: 1005.3

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

Comments or Notes Pertaining to Analysis: In this case, a better fit leads to higher lifetime

Time Block n°	Time (Year)	Depth K_{Iat} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	a/t (%)	Surface K_{Ict} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)	teta/pi (-)
0	0.0		3.0		0.00	8%		18.00		0.00	0.02
1	0.1		3.6		6.45E-01	9%		18.64		3.15E-01	0.02
2	0.1		4.4		7.25E-01	11%		19.42		3.98E-01	0.02
3	0.2		5.2		8.08E-01	13%		20.42		4.96E-01	0.02
4	0.2		6.1		8.90E-01	15%		21.64		6.06E-01	0.02
5	0.3		7.1		9.81E-01	18%		23.02		6.97E-01	0.02
6	0.3		8.1		1.06E+00	20%		24.62		7.97E-01	0.02
7	0.4		9.2		1.11E+00	23%		26.42		9.03E-01	0.03
8	0.4		10.4		1.13E+00	26%		28.46		1.02E+00	0.03
9	0.5		11.5		1.12E+00	29%		30.74		1.14E+00	0.03
10	0.5		12.5		1.07E+00	31%		33.24		1.25E+00	0.03
11	0.6		13.5		9.94E-01	34%		35.94		1.35E+00	0.04
12	0.6		14.4		9.07E-01	36%		38.82		1.44E+00	0.04
13	0.7		15.3		8.19E-01	38%		41.86		1.52E+00	0.04
14	0.7		16.0		7.38E-01	40%		45.02		1.59E+00	0.04
15	0.8		16.7		6.64E-01	42%		48.32		1.65E+00	0.05
16	0.8		17.3		6.03E-01	43%		51.74		1.71E+00	0.05
17	0.9		17.8		5.50E-01	45%		55.24		1.76E+00	0.05
18	0.9		18.3		5.03E-01	46%		58.86		1.81E+00	0.06
19	1.0		18.8		4.65E-01	47%		62.56		1.85E+00	0.06
20	1.0		19.2		4.31E-01	48%		66.32		1.89E+00	0.07
21	1.1		19.6		4.03E-01	49%		70.18		1.92E+00	0.07
22	1.1		20.0		3.77E-01	50%		74.08		1.96E+00	0.07
23	1.2		20.4		3.54E-01	51%		78.06		1.99E+00	0.08
24	1.2		20.7		3.36E-01	52%		82.08		2.01E+00	0.08
25	1.3		21.0		3.20E-01	53%		86.18		2.04E+00	0.09
26	1.3		21.3		3.14E-01	53%		90.26		2.04E+00	0.09
27	1.4		21.6		3.12E-01	54%		94.34		2.04E+00	0.09
28	1.4		21.9		3.07E-01	55%		98.42		2.04E+00	0.10
29	1.5		22.2		3.03E-01	56%		102.50		2.04E+00	0.10
30	1.5		22.5		3.01E-01	56%		106.56		2.04E+00	0.11
31	1.6		22.8		2.99E-01	57%		110.64		2.04E+00	0.11
32	1.6		23.1		2.96E-01	58%		114.72		2.04E+00	0.11
33	1.7		23.4		2.96E-01	59%		118.82		2.04E+00	0.12
34	1.7		23.7		2.97E-01	59%		122.90		2.05E+00	0.12
35	1.8		24.0		2.96E-01	60%		127.02		2.05E+00	0.13
36	1.8		24.3		2.95E-01	61%		131.14		2.06E+00	0.13
37	1.9		24.6		3.01E-01	62%		135.28		2.07E+00	0.13
38	1.9		24.9		3.06E-01	62%		139.44		2.08E+00	0.14
39	2.0		25.2		3.10E-01	63%		143.62		2.09E+00	0.14
40	2.0		25.6		3.15E-01	64%		147.84		2.11E+00	0.15
41	2.1		25.9		3.24E-01	65%		152.08		2.12E+00	0.15
42	2.1		26.2		3.34E-01	66%		156.34		2.14E+00	0.16
43	2.2		26.6		3.45E-01	66%		160.66		2.15E+00	0.16
44	2.2		26.9		3.60E-01	67%		165.00		2.17E+00	0.16
45	2.3		27.3		3.78E-01	68%		169.38		2.19E+00	0.17
46	2.3		27.7		3.97E-01	69%		173.80		2.21E+00	0.17
47	2.4		28.1		4.21E-01	70%		178.28		2.24E+00	0.18
48	2.4		28.6		4.49E-01	71%		182.80		2.26E+00	0.18
49	2.5		29.0		4.84E-01	73%		187.40		2.29E+00	0.19
50	2.5		29.6		5.25E-01	74%		192.04		2.32E+00	0.19
51	2.6		30.1		5.74E-01	75%		196.76		2.36E+00	0.20
52	2.6		30.8		6.35E-01	77%		201.56		2.40E+00	0.20
53	2.7		31.5		7.08E-01	79%		206.44		2.44E+00	0.21
54	2.7		32.3		8.01E-01	81%		211.42		2.49E+00	0.21
55	2.8		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
56	2.8		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
57	2.9		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
58	2.9		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
59	3.0		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
60	3.0		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
61	3.1		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
62	3.1		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
63	3.2		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
64	3.2		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
65	3.3		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
66	3.3		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
67	3.4		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
68	3.4		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
69	3.5		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
70	3.5		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
71	3.6		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
72	3.6		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
73	3.7		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
74	3.7		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
75	3.8		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
76	3.8		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
77	3.9		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
78	3.9		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
79	4.0		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
80	4.0		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
81	4.1		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
82	4.1		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
83	4.2		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
84	4.2		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
85	4.3		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
86	4.3		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
87	4.4		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
88	4.4		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
89	4.5		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
90	4.5		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
91	4.6		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
92	4.6		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
93	4.7		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
94	4.7		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
95	4.8		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
96	4.8		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
97	4.9		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
98	4.9		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
99	5.0		32.3		0.00E+00	81%		211.42		0.00E+00	0.21
100	5.0		32.3		0.00E+00	81%		211.42		0.00E+00	0.21

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w

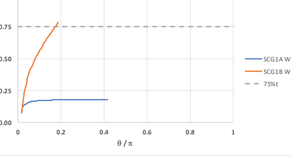
SCG1D

Time @ a = 0.75 t_w (years): 2.88 | a @ 0.75 t_w (mm): 29.7 | 2c @ 0.75 t_w (mm): 182.6 | Circ: 1005.3

Note: In Row 13, provide time, a, and 2c either when a = 0.75 t_w or at the end of the analysis if final a < 0.75 t_w

Time Block n°	Time (Year)	Depth K_{Iat} (MPa√m)	a (mm)	da/dt (mm/s)	Δa (mm)	a/t (%)	Surface K_{Ict} (MPa√m)	2c (mm)	dc/dt (mm/s)	Δc (mm)	
0	0.0		3.0		0.00	8%		18.00		0.00E+00	0.02
1	0.0	37.94	3.6	4.03E-07	6.00E-01	9%	25.37	18.40	2.12E-07	6.00E-01	0.02
2	0.1		4.3		7.10E-01	11%		19.20		8.00E-01	0.02
3	0.2	43.40	5.2	5.00E-07	8.60E-01	13%	31.59	20.40	3.01E-07	1.20E+00	0.02
4	0.2		6.2		1.03E+00	16%		21.60		1.20E+00	0.02
5	0.3	49.16	7.4	6.11E-07	1.24E+00	19%	39.27	23.40	4.26E-07	1.80E+00	0.02
6	0.4		8.9		1.47E+00	22%		25.60		2.20E+00	0.03
7	0.5		10.7		1.79E+00	27%		28.60		3.00E+00	0.03
8	0.5		12.6		1.90E+00	32%		32.80		4.20E+00	0.03
9	0.6		14.4		1.80E+00	36%		37.60		4.80E+00	0.04
10	0.7	42.50	15.9	4.84E-07	1.50E+00	40%	63.44	43.20	9.35E-07	5.60E+00	0.04
11	0.8		17.4		1.50E+00	44%		49.40		6.20E+00	0.05
12	0.9		18.5		1.10E+00	46%		56.20		6.80E+00	0.06
13	1.0		19.2		7.00E-01	48%		63.60		7.40E+00	0.06
14	1.1		19.8		6.00E-01	50%		71.00		7.40E+00	0.07
15	1.2	25.72	20.5	2.17E-07	7.00E-01	51%	76.05	78.80	1.23E-06	7.80E+00	0.08
16	1.4		21.2		7.00E-01	53%		86.60		7.80E+00	0.09
17	1.5		21.8		6.00E-01	55%		94.80		8.20E+00	0.09
18	1.6		22.4		6.00E-01	56%		103.20		8.40E+00	0.10
19	1.7		23.0		6.00E-01	58%		111.20		8.00E+00	0.11
20	1.8	21.67	23.6	1.65E-07	6.00E-01	59%	78.92	119.80	1.30E-06	8.60E+00	0.12
21	1.9		24.2		6.00E-01	61%		128.60		8.80E+00	0.13
22	2.0		24.8		6.00E-01	62%		137.20		8.60E+00	0.14
23	2.2		25.5		7.00E-01	64%		146.40		9.20E+00	0.15
24	2.3		26.3		8.00E-01	66%		155.40		9.00E+00	0.15
25	2.5	23.14	27.2	1.83E-07	9.00E-01	68%	71.84	164.80	1.12E-06	9.40E+00	0.16
26	2.7		28.3		1.10E+00	71%		173.40		8.60E+00	0.17
27	2.9	26.94	29.7	2.33E-07	1.40E+00	74%	66.02	182.60	9.79E-07	9.20E+00	0.18

Extend table as many rows as needed to an operating time of 50 years or when a = 0.75 t_w



TEEPAC Ver.5.30 11/29/2023 18:41 SCG1A

1/2 Circ. 502.6548246

#	N_Bloc	Time(YY)	NTR	A(mm)	da(mm)	L(mm)	dl(mm)	A/L	%inc	a/t
#I	0	0	0	3	0.00E+00	9	0.00E+00	0.333	0	8%
#C	1	5.00E-02	11	3.8	7.96E-01	9.45	4.51E-01	0.402	26.53	10%
#C	2	0.1	11	4.65	8.50E-01	10.04	5.89E-01	0.463	22.39	12%
#C	3	0.15	11	5.53	8.84E-01	10.78	7.36E-01	0.513	19.02	14%
#C	4	0.2	11	6.43	9.03E-01	11.65	8.75E-01	0.552	16.32	16%
#C	5	0.25	11	7.35	9.15E-01	12.63	9.82E-01	0.582	14.22	18%
#C	6	0.3	11	8.26	9.15E-01	13.72	1.08E+00	0.602	12.46	21%
#C	7	0.35	11	9.17	9.08E-01	14.9	1.18E+00	0.616	10.99	23%
#C	8	0.4	11	10.07	8.98E-01	16.18	1.28E+00	0.622	9.8	25%
#C	9	0.45	11	10.95	8.83E-01	17.54	1.37E+00	0.624	8.77	27%
#C	10	0.5	11	11.81	8.63E-01	19	1.45E+00	0.622	7.88	30%
#C	11	0.55	11	12.65	8.40E-01	20.53	1.53E+00	0.616	7.11	32%
#C	12	0.6	11	13.47	8.15E-01	22.14	1.61E+00	0.608	6.44	34%
#C	13	0.65	11	14.26	7.89E-01	23.82	1.68E+00	0.599	5.86	36%
#C	14	0.7	11	15.02	7.61E-01	25.56	1.74E+00	0.588	5.34	38%
#C	15	0.75	11	15.75	7.34E-01	27.36	1.80E+00	0.576	4.88	39%
#C	16	0.8	11	16.46	7.06E-01	29.21	1.85E+00	0.563	4.48	41%
#C	17	0.85	11	17.14	6.80E-01	31.12	1.91E+00	0.551	4.13	43%
#C	18	0.9	11	17.8	6.56E-01	33.09	1.97E+00	0.538	3.83	45%
#C	19	0.95	11	18.43	6.32E-01	35.11	2.02E+00	0.525	3.55	46%
#C	20	1	11	19.04	6.09E-01	37.18	2.07E+00	0.512	3.31	48%
#C	21	1.05	11	19.62	5.88E-01	39.29	2.12E+00	0.499	3.09	49%
#C	22	1.1	11	20.19	5.68E-01	41.46	2.16E+00	0.487	2.89	50%
#C	23	1.15	11	20.75	5.58E-01	43.64	2.18E+00	0.475	2.76	52%
#C	24	1.2	11	21.3	5.48E-01	45.84	2.20E+00	0.465	2.64	53%
#C	25	1.25	11	21.84	5.38E-01	48.07	2.22E+00	0.454	2.53	55%
#C	26	1.3	11	22.36	5.29E-01	50.31	2.24E+00	0.445	2.42	56%
#C	27	1.35	11	22.89	5.20E-01	52.57	2.26E+00	0.435	2.33	57%
#C	28	1.4	11	23.4	5.12E-01	54.85	2.28E+00	0.427	2.24	59%
#C	29	1.45	11	23.9	5.05E-01	57.15	2.30E+00	0.418	2.16	60%
#C	30	1.5	11	24.4	4.99E-01	59.47	2.32E+00	0.41	2.09	61%
#C	31	1.55	11	24.9	4.94E-01	61.8	2.34E+00	0.403	2.02	62%
#C	32	1.6	11	25.38	4.89E-01	64.16	2.36E+00	0.396	1.97	63%
#C	33	1.65	11	25.87	4.86E-01	66.54	2.38E+00	0.389	1.92	65%
#C	34	1.7	11	26.36	4.84E-01	68.95	2.40E+00	0.382	1.87	66%
#C	35	1.75	11	26.84	4.83E-01	71.37	2.42E+00	0.376	1.83	67%
#C	36	1.8	11	27.32	4.84E-01	73.82	2.45E+00	0.37	1.8	68%
#C	37	1.85	11	27.81	4.85E-01	76.29	2.47E+00	0.365	1.78	70%
#C	38	1.9	11	28.3	4.89E-01	78.78	2.49E+00	0.359	1.76	71%
#C	39	1.95	11	28.79	4.94E-01	81.29	2.51E+00	0.354	1.74	72%
#C	40	2	11	29.29	5.01E-01	83.82	2.53E+00	0.349	1.74	73%
#C	41	2.05	11	29.8	5.10E-01	86.38	2.56E+00	0.345	1.74	75%
#C	42	2.1	11	30.32	5.21E-01	88.96	2.58E+00	0.341	1.75	76%
#C	43	2.15	11	30.86	5.36E-01	91.57	2.61E+00	0.337	1.77	77%
#C	44	2.2	11	31.41	5.54E-01	94.2	2.63E+00	0.333	1.8	79%
#C	45	2.25	11	31.99	5.77E-01	96.85	2.66E+00	0.33	1.84	80%
#C	46	2.3	11	32.59	6.05E-01	99.54	2.68E+00	0.327	1.89	81%
#C	47	2.35	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	48	2.4	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	49	2.45	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	50	2.5	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	51	2.55	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	52	2.6	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	53	2.65	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	54	2.7	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	55	2.75	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	56	2.8	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	57	2.85	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	58	2.9	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	59	2.95	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	60	3	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	61	3.05	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	62	3.1	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	63	3.15	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	64	3.2	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	65	3.25	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	66	3.3	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	67	3.35	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	68	3.4	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	69	3.45	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	70	3.5	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	71	3.55	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	72	3.6	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	73	3.65	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	74	3.7	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	75	3.75	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	76	3.8	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	77	3.85	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	78	3.9	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	79	3.95	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	80	4	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	81	4.05	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	82	4.1	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	83	4.15	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	84	4.2	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	85	4.25	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	86	4.3	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	87	4.35	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	88	4.4	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	89	4.45	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	90	4.5	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	91	4.55	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	92	4.6	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	93	4.65	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	94	4.7	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	95	4.75	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	96	4.8	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	97	4.85	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	98	4.9	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	99	4.95	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%
#C	100	5	11	32.59	0.00E+00	99.54	0.00E+00	0.327	0	81%

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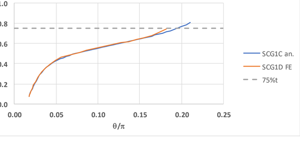
#	N_Bloc	Time(YY)	NTR	A(mm)	da(mm)	L(mm)	dl(mm)	A/L	%inc
#I	0	0	0	3	0.00E+00	9	0.00E+00	0.333	0
#C	1	5.00E-02	11	3.64	6.45E-01	9.32	3.15E-01	0.391	21.49
#C	2	0.1	11	4.37	7.25E-01	9.71	3.98E-01	0.45	19.88
#C	3	0.15	11	5.18	8.08E-01	10.21	4.96E-01	0.507	18.48
#C	4	0.2	11	6.07	8.90E-01	10.82	6.06E-01	0.561	17.19
#C	5	0.25	11	7.05	9.81E-01	11.51	6.97E-01	0.612	16.18
#C	6	0.3	11	8.1	1.06E+00	12.31	7.97E-01	0.658	14.98
#C	7	0.35	11	9.22	1.11E+00	13.21	9.03E-01	0.697	13.72
#C	8	0.4	11	10.35	1.13E+00	14.23	1.02E+00	0.727	12.3
#C	9	0.45	11	11.47	1.12E+00	15.37	1.14E+00	0.746	10.83
#C	10	0.5	11	12.54	1.07E+00	16.62	1.25E+00	0.755	9.32
#C	11	0.55	11	13.53	9.94E-01	17.97	1.35E+00	0.753	7.93
#C	12	0.6	11	14.44	9.07E-01	19.41	1.44E+00	0.744	6.7
#C	13	0.65	11	15.26	8.19E-01	20.93	1.52E+00	0.729	5.67
#C	14	0.7	11	16	7.38E-01	22.51	1.59E+00	0.711	4.83
#C	15	0.75	11	16.66	6.64E-01	24.16	1.65E+00	0.69	4.15
#C	16	0.8	11	17.26	6.03E-01	25.87	1.71E+00	0.667	3.62
#C	17	0.85	11	17.81	5.50E-01	27.62	1.76E+00	0.645	3.19
#C	18	0.9	11	18.32	5.03E-01	29.43	1.81E+00	0.622	2.83
#C	19	0.95	11	18.78	4.65E-01	31.28	1.85E+00	0.601	2.54
#C	20	1	11	19.21	4.31E-01	33.16	1.89E+00	0.579	2.29
#C	21	1.05	11	19.62	4.03E-01	35.09	1.92E+00	0.559	2.1
#C	22	1.1	11	19.99	3.77E-01	37.04	1.96E+00	0.54	1.92
#C	23	1.15	11	20.35	3.54E-01	39.03	1.99E+00	0.521	1.77
#C	24	1.2	11	20.68	3.36E-01	41.04	2.01E+00	0.504	1.65
#C	25	1.25	11	21	3.20E-01	43.09	2.04E+00	0.487	1.55
#C	26	1.3	11	21.32	3.14E-01	45.13	2.04E+00	0.472	1.5
#C	27	1.35	11	21.63	3.12E-01	47.17	2.04E+00	0.459	1.46
#C	28	1.4	11	21.94	3.07E-01	49.21	2.04E+00	0.446	1.42
#C	29	1.45	11	22.24	3.03E-01	51.25	2.04E+00	0.434	1.38
#C	30	1.5	11	22.54	3.01E-01	53.28	2.04E+00	0.423	1.35
#C	31	1.55	11	22.84	2.99E-01	55.32	2.04E+00	0.413	1.33
#C	32	1.6	11	23.14	2.96E-01	57.36	2.04E+00	0.403	1.3
#C	33	1.65	11	23.43	2.96E-01	59.41	2.04E+00	0.394	1.28
#C	34	1.7	11	23.73	2.97E-01	61.45	2.05E+00	0.386	1.27
#C	35	1.75	11	24.03	2.96E-01	63.51	2.05E+00	0.378	1.25
#C	36	1.8	11	24.32	2.95E-01	65.57	2.06E+00	0.371	1.23
#C	37	1.85	11	24.62	3.01E-01	67.64	2.07E+00	0.364	1.24
#C	38	1.9	11	24.93	3.06E-01	69.72	2.08E+00	0.358	1.24
#C	39	1.95	11	25.24	3.10E-01	71.81	2.09E+00	0.351	1.24
#C	40	2	11	25.55	3.15E-01	73.92	2.11E+00	0.346	1.25
#C	41	2.05	11	25.88	3.24E-01	76.04	2.12E+00	0.34	1.27
#C	42	2.1	11	26.21	3.34E-01	78.17	2.14E+00	0.335	1.29
#C	43	2.15	11	26.56	3.45E-01	80.33	2.15E+00	0.331	1.32
#C	44	2.2	11	26.92	3.60E-01	82.5	2.17E+00	0.326	1.36
#C	45	2.25	11	27.29	3.78E-01	84.69	2.19E+00	0.322	1.4
#C	46	2.3	11	27.69	3.97E-01	86.9	2.21E+00	0.319	1.46
#C	47	2.35	11	28.11	4.21E-01	89.14	2.24E+00	0.315	1.52
#C	48	2.4	11	28.56	4.49E-01	91.4	2.26E+00	0.312	1.6
#C	49	2.45	11	29.04	4.84E-01	93.7	2.29E+00	0.31	1.69
#C	50	2.5	11	29.57	5.25E-01	96.02	2.32E+00	0.308	1.81
#C	51	2.55	11	30.14	5.74E-01	98.38	2.36E+00	0.306	1.94
#C	52	2.6	11	30.78	6.35E-01	100.78	2.40E+00	0.305	2.11
#C	53	2.65	11	31.49	7.08E-01	103.22	2.44E+00	0.305	2.3
#C	54	2.7	11	32.29	8.01E-01	105.71	2.49E+00	0.305	2.55
#C	55	2.75	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	56	2.8	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	57	2.85	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	58	2.9	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	59	2.95	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	60	3	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	61	3.05	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	62	3.1	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	63	3.15	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	64	3.2	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	65	3.25	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	66	3.3	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	67	3.35	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	68	3.4	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	69	3.45	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	70	3.5	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	71	3.55	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	72	3.6	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	73	3.65	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	74	3.7	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	75	3.75	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	76	3.8	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	77	3.85	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	78	3.9	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	79	3.95	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	80	4	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	81	4.05	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	82	4.1	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	83	4.15	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	84	4.2	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	85	4.25	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	86	4.3	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	87	4.35	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	88	4.4	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	89	4.45	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	90	4.5	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	91	4.55	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	92	4.6	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	93	4.65	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	94	4.7	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	95	4.75	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	96	4.8	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	97	4.85	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	98	4.9	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	99	4.95	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0
#C	100	5	11	32.29	0.00E+00	105.71	0.00E+00	0.305	0



	75%t
0	30
5	30

	75%t
0	0.75
50	0.75

Comments or Notes Pertaining to Analysis
The calculation has been performed with Mortec-Crack 3FEM software package V 3.3. For more information please see Tracebel's report on SCG Task.