

Supplementary Information for

Analysis of contractile work of a single cardiomyocyte by atomic force microscopy

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The original data in Fig. 4(b)
The left side is the time (s), and the right side is the force (N) in the tables.

0.000488	5.84E-10	0.024414	6.07E-10	0.0483397	6.11E-10	0.0722655	6.03E-10
0.0009764	5.89E-10	0.024902	5.95E-10	0.048828	6.08E-10	0.072754	5.96E-10
0.0014647	5.89E-10	0.0253905	5.91E-10	0.0493163	6.12E-10	0.073242	5.98E-10
0.001953	5.99E-10	0.025879	5.99E-10	0.0498045	6.11E-10	0.0737303	6.02E-10
0.0024413	5.90E-10	0.026367	6.04E-10	0.050293	6.13E-10	0.0742186	6.10E-10
0.0029295	6.00E-10	0.0268553	6.04E-10	0.050781	6.00E-10	0.074707	6.05E-10
0.003418	6.01E-10	0.0273436	5.99E-10	0.0512694	6.07E-10	0.075195	6.01E-10
0.003906	5.99E-10	0.027832	6.08E-10	0.0517577	6.06E-10	0.0756835	6.01E-10
0.0043944	5.92E-10	0.02832	5.98E-10	0.052246	5.96E-10	0.0761717	6.00E-10
0.0048827	6.00E-10	0.0288085	6.01E-10	0.052734	5.98E-10	0.07666	5.94E-10
0.005371	6.11E-10	0.0292967	6.04E-10	0.0532225	5.92E-10	0.0771483	5.98E-10
0.005859	6.00E-10	0.029785	6.07E-10	0.053711	5.99E-10	0.0776366	6.09E-10
0.0063475	6.01E-10	0.0302733	5.86E-10	0.054199	6.03E-10	0.078125	5.95E-10
0.006836	6.06E-10	0.0307616	5.98E-10	0.0546874	6.05E-10	0.078613	6.10E-10
0.007324	6.01E-10	0.03125	5.96E-10	0.0551756	6.03E-10	0.0791014	6.13E-10
0.0078124	5.92E-10	0.031738	5.99E-10	0.055664	6.07E-10	0.0795897	5.96E-10
0.0083006	5.93E-10	0.0322264	6.02E-10	0.056152	5.98E-10	0.080078	5.99E-10
0.008789	6.14E-10	0.0327147	5.98E-10	0.0566405	5.97E-10	0.0805663	6.11E-10
0.009277	6.03E-10	0.033203	5.92E-10	0.057129	6.07E-10	0.0810545	6.03E-10
0.0097655	5.99E-10	0.0336913	6.09E-10	0.057617	5.95E-10	0.081543	5.97E-10
0.010254	6.09E-10	0.0341795	6.00E-10	0.0581053	5.96E-10	0.082031	6.02E-10
0.010742	6.02E-10	0.034668	6.04E-10	0.0585936	6.03E-10	0.0825194	5.96E-10
0.0112303	5.99E-10	0.035156	6.02E-10	0.059082	5.96E-10	0.0830077	6.02E-10
0.0117186	6.00E-10	0.0356444	5.90E-10	0.05957	5.94E-10	0.083496	6.12E-10
0.012207	5.95E-10	0.0361327	6.00E-10	0.0600585	5.93E-10	0.083984	5.98E-10
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0.0131835	5.96E-10	0.037109	6.10E-10	0.061035	5.97E-10	0.084961	6.12E-10
0.0136717	6.09E-10	0.0375975	6.10E-10	0.0615233	6.03E-10	0.085449	6.05E-10
0.01416	5.97E-10	0.038086	6.12E-10	0.0620116	5.99E-10	0.0859374	6.06E-10
0.0146483	6.07E-10	0.038574	6.19E-10	0.0625	5.94E-10	0.0864256	6.10E-10
0.0151366	6.04E-10	0.0390624	6.12E-10	0.062988	5.99E-10	0.086914	6.09E-10
0.015625	5.97E-10	0.0395506	6.01E-10	0.0634764	5.99E-10	0.087402	6.15E-10
0.016113	6.01E-10	0.040039	6.08E-10	0.0639647	6.13E-10	0.0878905	6.21E-10
0.0166014	5.87E-10	0.040527	6.08E-10	0.064453	6.02E-10	0.088379	6.11E-10
0.0170897	6.02E-10	0.0410155	6.09E-10	0.0649413	5.98E-10	0.088867	6.20E-10
0.017578	5.91E-10	0.041504	6.12E-10	0.0654295	6.00E-10	0.0893553	6.07E-10
0.0180663	5.90E-10	0.041992	5.93E-10	0.065918	5.84E-10	0.0898436	5.94E-10
0.0185545	5.98E-10	0.0424803	5.97E-10	0.066406	5.98E-10	0.090332	5.98E-10
0.019043	5.92E-10	0.0429686	6.00E-10	0.0668944	6.07E-10	0.09082	6.03E-10
0.019531	5.90E-10	0.043457	6.20E-10	0.0673827	5.97E-10	0.0913085	6.10E-10
0.0200194	5.85E-10	0.043945	6.18E-10	0.067871	5.89E-10	0.0917967	6.03E-10
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0.020996	5.87E-10	0.0449217	6.11E-10	0.0688475	6.10E-10	0.0927733	6.04E-10
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2.320312	4.38E-10
2.320801	4.38E-10
2.321289	4.40E-10

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2.322754	4.27E-10
2.323242	4.35E-10
2.32373	4.31E-10
2.324219	4.31E-10
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2.325683	4.33E-10
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2.32959	4.46E-10
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2.333496	4.67E-10
2.333984	4.80E-10
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2.334961	4.89E-10
2.335449	4.85E-10
2.335937	4.99E-10
2.336426	5.02E-10
2.336914	5.01E-10
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2.3378905	5.26E-10
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2.338867	5.31E-10
2.339355	5.33E-10
2.339844	5.45E-10
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2.34082	5.72E-10
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2.341797	5.95E-10
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2.34375	6.33E-10
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2.344726	6.63E-10
2.345215	6.83E-10
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2.3535155	1.06E-09
2.354004	1.08E-09
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2.373047	1.83E-09

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2.375	1.90E-09
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2.375976	1.94E-09
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2.376953	1.97E-09
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2.398926	2.45E-09

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2.463379	2.75E-09
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2.476562	2.61E-09

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2.535156	1.08E-09
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2.59375	4.10E-10
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2.594726	4.13E-10
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2.597168	4.16E-10
2.597656	4.13E-10
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2.61084	3.96E-10
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3.786408	5.80E-10
3.786897	5.77E-10
3.787386	5.74E-10
3.787875	5.82E-10
3.788364	5.85E-10
3.788853	5.95E-10
3.789342	5.92E-10
3.789831	5.95E-10
3.79032	5.87E-10
3.790809	5.99E-10
3.791298	5.88E-10
3.791787	5.79E-10
3.792276	5.82E-10
3.792765	5.86E-10
3.793254	5.84E-10
3.793743	5.94E-10
3.794232	5.76E-10
3.794721	5.83E-10
3.79521	5.99E-10
3.795699	5.81E-10
3.796188	5.73E-10
3.796677	5.89E-10
3.797166	5.90E-10

3.797655	5.70E-10
3.798144	5.80E-10
3.798633	5.88E-10
3.799122	5.88E-10
3.799611	5.81E-10
3.8001	5.86E-10
3.800589	5.86E-10
3.801078	5.96E-10
3.801567	5.85E-10
3.802056	5.80E-10
3.802545	5.95E-10
3.803034	5.92E-10
3.803523	5.84E-10
3.804012	5.89E-10
3.804501	5.81E-10
3.80499	5.84E-10
3.805479	5.67E-10
3.805968	5.78E-10
3.806457	5.73E-10
3.806946	5.81E-10
3.807435	5.76E-10
3.807924	5.91E-10
3.808413	5.81E-10
3.808902	5.94E-10
3.809391	5.79E-10
3.80988	5.77E-10
3.810369	5.88E-10
3.810858	6.10E-10
3.811347	5.85E-10
3.811836	5.89E-10
3.812325	5.88E-10
3.812814	5.85E-10
3.813303	5.99E-10
3.813792	5.81E-10
3.814281	5.88E-10
3.81477	5.95E-10
3.815259	5.80E-10
3.815748	5.77E-10
3.816237	5.80E-10
3.816726	5.94E-10
3.817215	5.78E-10
3.817704	5.88E-10
3.818193	5.79E-10
3.818682	5.94E-10
3.819171	5.84E-10
3.81966	5.79E-10
3.820149	5.88E-10
3.820638	5.83E-10
3.821127	5.84E-10
3.821616	6.10E-10
3.822105	5.91E-10
3.822594	5.86E-10
3.823083	5.78E-10

3.823572	5.87E-10
3.824061	5.88E-10
3.82455	5.82E-10
3.825039	6.05E-10
3.825528	6.03E-10
3.826017	5.94E-10
3.826506	5.93E-10
3.826995	5.90E-10
3.827484	5.90E-10
3.827973	5.86E-10
3.828462	5.96E-10
3.828951	6.01E-10
3.82944	5.87E-10
3.829929	5.90E-10
3.830418	5.95E-10
3.830907	5.84E-10
3.831396	5.89E-10
3.831885	5.89E-10
3.832374	5.99E-10
3.832863	5.90E-10
3.833352	6.00E-10
3.833841	6.01E-10
3.83433	5.99E-10
3.834819	5.92E-10
3.835308	6.00E-10
3.835797	6.11E-10
3.836286	6.00E-10
3.836775	6.01E-10
3.837264	6.06E-10
3.837753	6.01E-10
3.838242	5.92E-10
3.838731	5.93E-10
3.83922	6.14E-10
3.839709	6.03E-10
3.840198	5.99E-10
3.840687	6.09E-10
3.841176	6.02E-10
3.841665	5.99E-10
3.842154	6.00E-10
3.842643	5.95E-10
3.843132	6.02E-10
3.843621	5.96E-10
3.84411	6.09E-10
3.844599	5.97E-10
3.845088	6.07E-10
3.845577	6.04E-10
3.846066	5.97E-10
3.846555	6.01E-10
3.847044	5.87E-10
3.847533	6.02E-10
3.848022	5.91E-10
3.848511	5.90E-10
3.849	5.98E-10

3.849489	5.92E-10
3.849978	5.90E-10
3.850467	5.85E-10
3.850956	5.88E-10
3.851445	5.87E-10
3.851934	5.97E-10
3.852423	5.81E-10
3.852912	5.89E-10
3.853401	5.85E-10
3.85389	5.83E-10
3.854379	5.89E-10
3.854868	6.07E-10
3.855357	5.95E-10
3.855846	5.91E-10
3.856335	5.99E-10
3.856824	6.04E-10
3.857313	6.04E-10
3.857802	5.99E-10
3.858291	6.08E-10
3.85878	5.98E-10
3.859269	6.01E-10
3.859758	6.04E-10
3.860247	6.07E-10
3.860736	5.86E-10
3.861225	5.98E-10
3.861714	5.96E-10
3.862203	5.99E-10
3.862692	6.02E-10
3.863181	5.98E-10
3.86367	5.92E-10
3.864159	6.09E-10
3.864648	6.00E-10
3.865137	6.04E-10
3.865626	6.02E-10
3.866115	5.90E-10
3.866604	6.00E-10
3.867093	6.01E-10
3.867582	6.10E-10
3.868071	6.10E-10
3.86856	6.12E-10
3.869049	6.19E-10
3.869538	6.12E-10
3.870027	6.01E-10
3.870516	6.08E-10
3.871005	6.08E-10
3.871494	6.09E-10
3.871983	6.12E-10
3.872472	5.93E-10
3.872961	5.97E-10
3.87345	6.00E-10
3.873939	6.20E-10
3.874428	6.18E-10
3.874917	6.04E-10

3.875406	6.11E-10
3.875895	6.08E-10
3.876384	6.07E-10
3.876873	6.08E-10
3.877362	6.08E-10
3.877851	6.00E-10
3.87834	6.18E-10
3.878829	6.11E-10
3.879318	6.08E-10
3.879807	6.12E-10
3.880296	6.11E-10
3.880785	6.13E-10
3.881274	6.00E-10
3.881763	6.07E-10
3.882252	6.06E-10
3.882741	5.96E-10
3.88323	5.98E-10
3.883719	5.92E-10
3.884208	5.99E-10
3.884697	6.03E-10
3.885186	6.05E-10
3.885675	6.03E-10
3.886164	6.07E-10
3.886653	5.98E-10
3.887142	5.97E-10
3.887631	6.07E-10
3.88812	5.95E-10
3.888609	5.96E-10
3.889098	6.03E-10
3.889587	5.96E-10
3.890076	5.94E-10
3.890565	5.93E-10
3.891054	5.93E-10
3.891543	5.97E-10
3.892032	6.03E-10
3.892521	5.99E-10
3.89301	5.94E-10
3.893499	5.99E-10
3.893988	5.99E-10
3.894477	6.13E-10
3.894966	6.02E-10
3.895455	5.98E-10
3.895944	6.00E-10
3.896433	5.84E-10
3.896922	5.98E-10
3.897411	6.07E-10
3.8979	5.97E-10
3.898389	5.89E-10
3.898878	6.20E-10
3.899367	6.10E-10
3.899856	5.96E-10
3.900345	6.01E-10
3.900834	6.04E-10

3.901323	5.94E-10
3.901812	5.91E-10
3.902301	6.08E-10
3.90279	6.03E-10
3.903279	5.96E-10
3.903768	5.98E-10
3.904257	6.02E-10
3.904746	6.10E-10
3.905235	6.05E-10
3.905724	6.01E-10
3.906213	6.01E-10
3.906702	6.00E-10
3.907191	5.94E-10
3.90768	5.98E-10
3.908169	6.09E-10
3.908658	5.95E-10
3.909147	6.10E-10
3.909636	6.13E-10
3.910125	5.96E-10
3.910614	5.99E-10
3.911103	6.11E-10
3.911592	6.03E-10
3.912081	5.97E-10
3.91257	6.02E-10
3.913059	5.96E-10
3.913548	6.02E-10
3.914037	6.12E-10
3.914526	5.98E-10
3.915015	6.11E-10
3.915504	6.12E-10
3.915993	6.05E-10
3.916482	6.06E-10
3.916971	6.10E-10
3.91746	6.09E-10
3.917949	6.15E-10
3.918438	6.21E-10
3.918927	6.11E-10
3.919416	6.20E-10
3.919905	6.07E-10
3.920394	5.94E-10
3.920883	5.98E-10
3.921372	6.03E-10
3.921861	6.10E-10
3.92235	6.03E-10
3.922839	6.09E-10
3.923328	6.04E-10
3.923817	6.02E-10
3.924306	6.06E-10
3.924795	6.00E-10
3.925284	6.06E-10
3.925773	6.12E-10
3.926262	6.12E-10
3.926751	6.09E-10

3.92724	6.03E-10	3.949734	5.93E-10	3.972228	5.66E-10	3.994722	5.69E-10
3.927729	6.14E-10	3.950223	6.08E-10	3.972717	5.79E-10	3.995211	5.61E-10
3.928218	6.26E-10	3.950712	6.14E-10	3.973206	5.85E-10	3.9957	5.64E-10
3.928707	6.17E-10	3.951201	6.05E-10	3.973695	5.68E-10	3.996189	5.61E-10
3.929196	6.14E-10	3.95169	6.07E-10	3.974184	5.65E-10	3.996678	5.57E-10
3.929685	6.19E-10	3.952179	6.01E-10	3.974673	5.65E-10	3.997167	5.68E-10
3.930174	6.25E-10	3.952668	6.11E-10	3.975162	5.62E-10	3.997656	5.66E-10
3.930663	6.18E-10	3.953157	6.02E-10	3.975651	5.57E-10	3.998145	5.57E-10
3.931152	6.21E-10	3.953646	6.05E-10	3.97614	5.62E-10	3.998634	5.61E-10
3.931641	6.28E-10	3.954135	6.13E-10	3.976629	5.58E-10	3.999123	5.61E-10
3.93213	6.20E-10	3.954624	5.93E-10	3.977118	5.53E-10	3.999612	5.58E-10
3.932619	6.27E-10	3.955113	5.97E-10	3.977607	5.66E-10		
3.933108	6.20E-10	3.955602	6.03E-10	3.978096	5.64E-10		
3.933597	6.00E-10	3.956091	6.01E-10	3.978585	5.63E-10		
3.934086	6.07E-10	3.95658	5.97E-10	3.979074	5.59E-10		
3.934575	5.96E-10	3.957069	6.08E-10	3.979563	5.54E-10		
3.935064	6.02E-10	3.957558	6.10E-10	3.980052	5.61E-10		
3.935553	5.97E-10	3.958047	5.96E-10	3.980541	5.60E-10		
3.936042	6.12E-10	3.958536	5.96E-10	3.98103	5.66E-10		
3.936531	6.23E-10	3.959025	6.02E-10	3.981519	5.62E-10		
3.93702	6.15E-10	3.959514	6.03E-10	3.982008	5.65E-10		
3.937509	6.10E-10	3.960003	5.95E-10	3.982497	5.64E-10		
3.937998	6.11E-10	3.960492	5.97E-10	3.982986	5.53E-10		
3.938487	6.11E-10	3.960981	5.93E-10	3.983475	5.70E-10		
3.938976	6.13E-10	3.96147	5.97E-10	3.983964	5.66E-10		
3.939465	6.13E-10	3.961959	5.97E-10	3.984453	5.55E-10		
3.939954	6.07E-10	3.962448	5.98E-10	3.984942	5.72E-10		
3.940443	6.13E-10	3.962937	5.81E-10	3.985431	5.87E-10		
3.940932	6.19E-10	3.963426	5.76E-10	3.98592	5.77E-10		
3.941421	6.16E-10	3.963915	5.76E-10	3.986409	5.58E-10		
3.94191	6.18E-10	3.964404	5.74E-10	3.986898	5.69E-10		
3.942399	6.09E-10	3.964893	5.67E-10	3.987387	5.68E-10		
3.942888	6.10E-10	3.965382	5.75E-10	3.987876	5.66E-10		
3.943377	6.11E-10	3.965871	5.98E-10	3.988365	5.63E-10		
3.943866	6.17E-10	3.96636	5.89E-10	3.988854	5.64E-10		
3.944355	6.10E-10	3.966849	5.68E-10	3.989343	5.60E-10		
3.944844	6.05E-10	3.967338	5.70E-10	3.989832	5.58E-10		
3.945333	6.04E-10	3.967827	5.80E-10	3.990321	5.65E-10		
3.945822	6.04E-10	3.968316	5.66E-10	3.99081	5.67E-10		
3.946311	6.13E-10	3.968805	5.77E-10	3.991299	5.71E-10		
3.9468	6.05E-10	3.969294	5.73E-10	3.991788	5.64E-10		
3.947289	6.08E-10	3.969783	5.67E-10	3.992277	5.74E-10		
3.947778	6.13E-10	3.970272	5.69E-10	3.992766	5.61E-10		
3.948267	6.04E-10	3.970761	5.78E-10	3.993255	5.69E-10		
3.948756	6.08E-10	3.97125	5.80E-10	3.993744	5.60E-10		
3.949245	6.00E-10	3.971739	5.83E-10	3.994233	5.62E-10		

The original data in Fig. 4(c)
The left side is the time (s), and the right side is the force (N)

0	5.93E-06	0.001465	5.93E-06	0.00293	5.93E-06	0.004395	5.93E-06
0.000488	5.93E-06	0.001953	5.93E-06	0.003418	5.93E-06	0.004883	5.93E-06
0.000977	5.93E-06	0.002441	5.93E-06	0.003906	5.93E-06	0.005371	5.93E-06

0.005859	5.93E-06
0.006348	5.93E-06
0.006836	5.93E-06
0.007324	5.93E-06
0.007813	5.93E-06
0.008301	5.93E-06
0.008789	5.93E-06
0.009277	5.93E-06
0.009766	5.93E-06
0.010254	5.93E-06
0.010742	5.93E-06
0.01123	5.93E-06
0.011719	5.93E-06
0.012207	5.93E-06
0.012695	5.93E-06
0.013184	5.93E-06
0.013672	5.93E-06
0.01416	5.93E-06
0.014648	5.93E-06
0.015137	5.93E-06
0.015625	5.93E-06
0.016113	5.93E-06
0.016602	5.93E-06
0.01709	5.93E-06
0.017578	5.93E-06
0.018066	5.93E-06
0.018555	5.93E-06
0.019043	5.93E-06
0.019531	5.92E-06
0.02002	5.92E-06
0.020508	5.92E-06
0.020996	5.92E-06
0.021484	5.92E-06
0.021973	5.92E-06
0.022461	5.92E-06
0.022949	5.92E-06
0.023438	5.92E-06
0.023926	5.92E-06
0.024414	5.92E-06
0.024902	5.92E-06
0.025391	5.92E-06
0.025879	5.92E-06
0.026367	5.92E-06
0.026855	5.92E-06
0.027344	5.92E-06
0.027832	5.92E-06
0.02832	5.92E-06
0.028809	5.92E-06
0.029297	5.92E-06
0.029785	5.92E-06
0.030273	5.92E-06
0.030762	5.92E-06
0.03125	5.92E-06

0.031738	5.92E-06
0.032227	5.92E-06
0.032715	5.92E-06
0.033203	5.92E-06
0.033691	5.92E-06
0.03418	5.92E-06
0.034668	5.92E-06
0.035156	5.92E-06
0.035645	5.92E-06
0.036133	5.92E-06
0.036621	5.92E-06
0.037109	5.92E-06
0.037598	5.92E-06
0.038086	5.92E-06
0.038574	5.92E-06
0.039063	5.92E-06
0.039551	5.92E-06
0.040039	5.92E-06
0.040527	5.92E-06
0.041016	5.92E-06
0.041504	5.92E-06
0.041992	5.92E-06
0.04248	5.92E-06
0.042969	5.92E-06
0.043457	5.92E-06
0.043945	5.92E-06
0.044434	5.92E-06
0.044922	5.92E-06
0.04541	5.92E-06
0.045898	5.92E-06
0.046387	5.92E-06
0.046875	5.92E-06
0.047363	5.92E-06
0.047852	5.92E-06
0.04834	5.92E-06
0.048828	5.92E-06
0.049316	5.92E-06
0.049805	5.92E-06
0.050293	5.92E-06
0.050781	5.92E-06
0.05127	5.92E-06
0.051758	5.92E-06
0.052246	5.92E-06
0.052734	5.92E-06
0.053223	5.92E-06
0.053711	5.92E-06
0.054199	5.92E-06
0.054688	5.92E-06
0.055176	5.92E-06
0.055664	5.92E-06
0.056152	5.92E-06
0.056641	5.92E-06
0.057129	5.92E-06

0.057617	5.92E-06
0.058105	5.92E-06
0.058594	5.92E-06
0.059082	5.92E-06
0.05957	5.92E-06
0.060059	5.92E-06
0.060547	5.92E-06
0.061035	5.92E-06
0.061523	5.92E-06
0.062012	5.92E-06
0.0625	5.92E-06
0.062988	5.92E-06
0.063477	5.92E-06
0.063965	5.92E-06
0.064453	5.92E-06
0.064941	5.92E-06
0.06543	5.92E-06
0.065918	5.92E-06
0.066406	5.92E-06
0.066895	5.92E-06
0.067383	5.92E-06
0.067871	5.92E-06
0.068359	5.92E-06
0.068848	5.92E-06
0.069336	5.92E-06
0.069824	5.92E-06
0.070313	5.92E-06
0.070801	5.92E-06
0.071289	5.92E-06
0.071777	5.92E-06
0.072266	5.92E-06
0.072754	5.92E-06
0.073242	5.92E-06
0.07373	5.92E-06
0.074219	5.92E-06
0.074707	5.92E-06
0.075195	5.92E-06
0.075684	5.92E-06
0.076172	5.92E-06
0.07666	5.92E-06
0.077148	5.92E-06
0.077637	5.92E-06
0.078125	5.92E-06
0.078613	5.92E-06
0.079102	5.92E-06
0.07959	5.92E-06
0.080078	5.92E-06
0.080566	5.92E-06
0.081055	5.92E-06
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0.082031	5.92E-06
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