

Tables of supporting data for Figure 2c

Plasma treatment time (min)	Concentration of particles in plasma-treated solution (particles/mL)	
	Average	$\sigma$
0	9.60E+09	4.98E+07
15	2.63E+09	4.07E+08
30	1.73E+09	3.72E+08
45	9.17E+07	8.93E+06
60	3.56E+07	1.27E+07
120	3.82E+07	2.88E+07
180	5.47E+06	3.96E+06

Concentration of particles in DI water (particles/mL)	
Average	$\sigma$
8.24E+07	1.13E+07

Tables of supporting data for Figure 2d

Size (nm)	Concentration (particles/mL) at different plasma treatment time						
	0 min.	15 min.	30 min.	45 min.	60 min.	120 min.	180 min.
0.5	0	0	0	0	0	0	0
1.5	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0
3.5	0	0	0	0	0	0	0
4.5	0	0	0	0	0	0	0
5.5	0	0	0	0	0	0	0
6.5	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0
8.5	0	0	0	131	0	0	0
9.5	0	0	0	5116	287	0	0
10.5	0	0	0	37046	5527	0	0
11.5	0	0	0	69331	18364	0	0
12.5	0	0	0	46271	25283	0	0
13.5	0	0	0	15079	27235	0	0
14.5	0	0	0	3261	33192	0	0
15.5	0	0	0	626	51400	0	0
16.5	0	0	0	179	94373	0	0
17.5	0	0	0	5723	175466	0	5
18.5	0	0	0	138381	282278	0	90
19.5	0	0	0	572923	355094	0	1579
20.5	0	0	0	460616	340234	0	22632
21.5	0	0	0	95204	258400	0	203219
22.5	0	0	0	11480	168957	1	934940
23.5	0	0	0	11750	104943	2	1973420
24.5	0	0	0	19815	67833	6	1879970
25.5	0	0	0	29363	48866	16	863210
26.5	0	0	0	44790	40720	37	217160
27.5	0	0	20	75417	39409	81	35400
28.5	0	10	50	136789	43371	166	4496
29.5	0	140	90	247030	52727	323	532
30.5	0	1310	140	403563	69498	599	69
31.5	0	8690	180	550455	99297	1068	11
32.5	0	41450	200	605478	154021	1842	2
33.5	0	146330	200	554089	252167	3084	0
34.5	0	394320	190	461705	411098	5016	0
35.5	0	839940	170	380890	630274	7893	0
36.5	0	1476640	160	327628	876281	11959	0
37.5	0	2261590	140	407976	1086460	17341	0
38.5	10	3200830	150	917269	1195760	23944	0
39.5	20	4372950	300	1646470	1170030	31369	0

40.5	50	5839990	1380	1540110	1022000	38924	0
41.5	80	7565720	7340	777468	800776	45756	0
42.5	150	9440670	33490	317632	565788	51059	0
43.5	250	11344100	125060	208058	363048	54281	1
44.5	420	13150900	383600	204731	214386	55252	2
45.5	690	14704800	978110	218785	119791	54178	3
46.5	1080	15826200	2103720	235551	66878	51533	5
47.5	1660	16363400	3877770	253007	40575	47904	9
48.5	2480	16248600	6230280	270392	28884	43853	16
49.5	3630	15520700	8880950	288020	24307	39828	26
50.5	5200	14307500	11439200	308377	22890	36138	44
51.5	7310	12782900	13565500	335501	22775	32967	72
52.5	10070	11122400	15091900	371194	23167	30407	115
53.5	13630	9473450	16042900	411555	23753	28500	180
54.5	18160	7944780	16565500	450891	24428	27268	276
55.5	23840	6608110	16816200	489883	25173	26731	413
56.5	30880	5506030	16866500	528799	26004	26929	604
57.5	39570	4659580	16689900	545347	26948	27918	862
58.5	50280	4074710	16246000	501540	28034	29777	1202
59.5	63520	3747890	15589100	394306	29288	32606	1637
60.5	80040	3671250	14891000	280838	30733	36515	2182
61.5	100880	3836230	14351900	248194	32384	41623	2851
62.5	127460	4233830	14084400	384099	34245	48043	3655
63.5	161580	4849580	14065400	734857	36309	55865	4607
64.5	205480	5652430	14164900	1179180	38555	65148	5722
65.5	261690	6580330	14206200	1386620	40943	75895	7012
66.5	332910	7530090	14018500	1139310	43418	88044	8495
67.5	421800	8362490	13476900	645119	45904	101455	10187
68.5	530730	8930130	12534300	259618	48313	115903	12109
69.5	661630	9122910	11239600	86892	50550	131082	14278
70.5	815780	8910900	9728780	37139	52519	146614	16711
71.5	993830	8360630	8186300	27110	54140	162071	19417
72.5	1195820	7614580	6787270	26142	55353	176990	22394
73.5	1421340	6846450	5647610	28299	56131	190910	25617
74.5	1669730	6216680	4802800	34947	56482	203394	29040
75.5	1940240	5846170	4219180	51595	56454	214057	32577
76.5	2232190	5809270	3824760	88403	56125	222588	36102
77.5	2544970	6134620	3541340	157059	55598	228765	39445
78.5	2878050	6801870	3305750	259683	54987	232469	42394
79.5	3230830	7731480	3077830	376372	54410	233683	44706
80.5	3602420	8776980	2838840	469404	53979	232491	46134
81.5	3991500	9735690	2585450	508968	53791	229067	46454
82.5	4396180	10388500	2323350	495619	53924	223660	45509
83.5	4813830	10561200	2062120	455390	54433	216574	43246

84.5	5241190	10181800	1811920	416714	55345	208146	39741
85.5	5674390	9301490	1581840	393924	56658	198721	35212
86.5	6109110	8069430	1379360	386521	58330	188640	29992
87.5	6540830	6675490	1210750	386926	60286	178212	24486
88.5	6965000	5292570	1081650	387873	62439	167710	19109
89.5	7377250	4042170	997870	385679	64798	157360	14217
90.5	7773540	2987780	965600	379622	67790	147341	10062
91.5	8150300	2146400	990900	369588	73044	137784	6768
92.5	8504510	1505450	1077970	354583	84839	128774	4347
93.5	8833700	1037420	1226390	333331	111931	120364	2734
94.5	9135940	709900	1428030	306026	168099	112571	1849
95.5	9409870	491660	1665160	275482	268364	105393	1651
96.5	9654600	355920	1911610	246942	418794	98808	2178
97.5	9869690	281730	2137940	227084	603398	92781	3554
98.5	10055100	254200	2319830	222716	778887	87274	5950
99.5	10211100	263870	2446450	238578	887911	82242	9493
100.5	10338400	305760	2524740	273678	888008	77638	14152
101.5	10437700	378270	2576280	318042	776970	73420	19639
102.5	10510200	482040	2627150	354275	594297	69545	25378
103.5	10557200	618910	2694890	365891	397613	65974	30578
104.5	10580100	790850	2778720	347220	233091	62672	34407
105.5	10580500	999040	2857860	306239	120105	59607	36214
106.5	10560200	1242990	2899280	257999	54694	56751	35712
107.5	10520900	1519820	2870980	215202	22230	54082	33050
108.5	10464800	1823900	2755010	183518	8221	51577	28751
109.5	10393700	2146710	2554480	162835	2879	49219	23548
110.5	10309900	2477210	2292410	150747	1041	46993	18189
111.5	10215400	2802570	2003910	144980	464	44889	13272
112.5	10112500	3109210	1725690	144078	328	42895	9163
113.5	10003500	3384080	1487150	147191	395	41005	5997
114.5	9890440	3615950	1305440	153704	642	39211	3726
115.5	9775620	3796480	1184950	163026	1140	37508	2202
116.5	9661140	3921050	1119860	174537	2030	35892	1240
117.5	9549090	3989170	1098010	187664	3520	34359	667
118.5	9441430	4004460	1104580	202031	5885	32907	343
119.5	9340060	3974310	1124910	217617	9464	31532	169
120.5	9246760	3909210	1146160	234882	14625	30232	80
121.5	9163200	3821920	1158260	254771	21720	29004	36
122.5	9090940	3726350	1154270	278573	31006	27846	16
123.5	9031430	3636470	1130360	307617	42552	26756	7
124.5	8986010	3564860	1085640	342834	56153	25729	3
125.5	8955950	3521380	1021780	384259	71265	24766	1
126.5	8942460	3511770	942390	430581	86990	23864	0
127.5	8946660	3536690	852370	478913	102135	23023	0

128.5	8969660	3591440	757160	524970	115348	22243	0
129.5	9012570	3666550	662000	563771	125306	21527	0
130.5	9076480	3749580	571460	590817	130939	20881	0
131.5	9162520	3827600	489120	603419	131623	20312	0
132.5	9271870	3890170	417440	601721	127302	19834	0
133.5	9405780	3932010	357900	588931	118514	19467	0
134.5	9565550	3954790	311190	570602	106299	19236	0
135.5	9752620	3967530	277510	553174	92017	19178	0
136.5	9968490	3985560	256830	542304	77136	19342	0
137.5	10214800	4028100	249110	541565	63010	19790	0
138.5	10493200	4114980	254440	551857	50718	20602	0
139.5	10805600	4263080	273020	571579	40980	21879	0
140.5	11153800	4483240	305170	597349	34142	23743	0
141.5	11539800	4778210	351100	624963	30225	26340	0
142.5	11965600	5142080	410820	650308	29003	29838	0
143.5	12433300	5561340	484020	670054	30087	34424	0
144.5	12944900	6017190	570080	682044	32996	40298	0
145.5	13502200	6488690	668320	685388	37209	47660	0
146.5	14107200	6955950	778500	680318	42200	56694	0
147.5	14761300	7402800	901380	667894	47458	67549	0
148.5	15466200	7818470	1039440	649653	52510	80305	0
149.5	16222700	8198070	1197300	627276	56932	94956	0
150.5	17031500	8542010	1381750	602337	60379	111372	0
151.5	17892700	8854540	1601180	576144	62607	129282	0
152.5	18805800	9141700	1864380	549678	63534	148259	0
153.5	19769600	9409120	2178760	523606	63375	167719	0
154.5	20781900	9659840	2548350	498345	62996	186938	0
155.5	21840000	9892430	2971820	474132	64655	205091	0
156.5	22939900	10099800	3441220	451113	73114	221303	0
157.5	24077000	10268700	3941520	429398	96423	234717	0
158.5	25245800	10380500	4451620	409118	144598	244572	0
159.5	26440100	10412500	4946640	390481	224370	250271	0
160.5	27653300	10341600	5401460	373885	330861	251447	0
161.5	28878800	10147400	5794860	360160	442018	248000	0
162.5	30110100	9816820	6113610	351040	523401	240109	0
163.5	31341000	9347940	6355490	349882	544455	228225	0
164.5	32566600	8752140	6530510	362446	496154	213019	0
165.5	33783000	8054680	6659800	397091	396247	195330	0
166.5	34987900	7292540	6772170	463424	278013	176082	0
167.5	36180400	6510200	6898580	568628	172111	156213	0
168.5	37361800	5753860	7065750	712012	94697	136604	0
169.5	38534500	5065500	7289910	880288	46920	118028	0
170.5	39702600	4478040	7571990	1047260	21525	101115	0
171.5	40871500	4012330	7895620	1180250	9754	86348	0

172.5	42047100	3676500	8228390	1251550	5001	74071	0
173.5	43236000	3467320	8526480	1249500	3429	64516	0
174.5	44444600	3372870	8741980	1182890	3205	57840	0
175.5	45679100	3375750	8831350	1076480	3588	54152	0
176.5	46944900	3456000	8763250	960179	4323	53536	0
177.5	48246400	3593390	8524060	858127	5346	56045	0
178.5	49586800	3768880	8119850	782187	6662	61685	0
179.5	50968100	3965360	7574720	731605	8301	70363	0
180.5	52390900	4167940	6926010	697066	10305	81829	0
181.5	53854400	4363900	6217860	666290	12727	95623	0
182.5	55356600	4542600	5494660	628804	15627	111046	0
183.5	56894300	4695410	4795710	578735	19078	127170	2
184.5	58463500	4815600	4151790	515469	23170	142900	5
185.5	60059100	4898310	3583930	442670	28037	157085	10
186.5	61675700	4940550	3103990	366370	33892	168663	22
187.5	63307400	4941090	2716370	292899	41130	176805	44
188.5	64948000	4900370	2420180	227288	50491	181035	86
189.5	66591400	4820340	2211410	172450	63311	181286	163
190.5	68231800	4704180	2084540	129151	81815	177897	301
191.5	69863700	4556080	2033660	96523	109241	171530	540
192.5	71482100	4380950	2052990	72776	149432	163051	937
193.5	73082900	4184090	2136930	55844	205464	153384	1576
194.5	74662400	3970980	2279940	43827	277211	143381	2571
195.5	76218100	3746970	2476320	35199	358661	133723	4065
196.5	77748000	3517140	2720090	28846	436866	124871	6230
197.5	79251200	3286120	3005040	24008	494496	117061	9256
198.5	80727500	3058010	3324940	20195	516182	110336	13335
199.5	82177400	2836290	3673820	17099	495777	104597	18629
200.5	83602000	2623830	4046260	14526	439888	99667	25243
201.5	85002700	2422920	4437450	12358	364911	95337	33189
202.5	86380900	2235270	4842970	10516	289280	91415	42347
203.5	87738100	2062100	5258300	8949	225989	87746	52456
204.5	89075400	1904200	5678090	7620	179548	84225	63100
205.5	90392900	1762020	6095500	6505	147758	80799	73736
206.5	91689800	1635720	6501720	5587	125633	77459	83734
207.5	92963800	1525280	6886120	4857	108588	74235	92441
208.5	94211100	1430560	7237070	4318	93765	71179	99248
209.5	95425600	1351390	7543350	3982	79924	68363	103668
210.5	96599300	1287590	7796030	3878	66817	65864	105392
211.5	97721900	1239070	7990220	4052	54622	63763	104323
212.5	98780800	1205880	8126200	4576	43604	62139	100586
213.5	99761400	1188210	8209490	5553	33969	61064	94505
214.5	100647000	1186460	8249560	7121	25814	60601	86557
215.5	101421000	1201250	8257330	9458	19132	60806	77313

216.5	102063000	1233430	8241940	12790	13825	61725	67372
217.5	102556000	1284020	8207720	17385	9741	63390	57300
218.5	102881000	1354220	8152070	23554	6690	65827	47582
219.5	103023000	1445340	8065300	31639	4480	69048	38592
220.5	102967000	1558690	7932620	41999	2924	73054	30584
221.5	102703000	1695520	7738070	54985	1861	77835	23692
222.5	102223000	1856830	7469490	70911	1155	83370	17944
223.5	101525000	2043320	7123260	90025	699	89626	13294
224.5	100609000	2255170	6707300	112465	413	96559	9637
225.5	99481100	2491990	6241360	138231	238	104113	6837
226.5	98152100	2752680	5754340	167150	134	112221	4750
227.5	96635600	3035370	5279210	198859	74	120808	3231
228.5	94948900	3337400	4846750	232795	39	129788	2153
229.5	93112200	3655400	4479670	268200	21	139067	1406
230.5	91147400	3985350	4188530	304148	11	148545	900
231.5	89077700	4322800	3970290	339581	5	158118	565
232.5	86926900	4663090	3809610	373361	3	167679	348
233.5	84718400	5001690	3682650	404335	1	177120	210
234.5	82474500	5334610	3562190	431406	0	186336	124
235.5	80216300	5658830	3423210	453605	0	195224	72
236.5	77963100	5972840	3247500	470161	0	203689	41
237.5	75732000	6277200	3026680	480572	0	211641	23
238.5	73537800	6575030	2762900	484669	0	219002	13
239.5	71393000	6872440	2467370	482684	0	225703	7
240.5	69307800	7178720	2157200	475309	0	231687	4
241.5	67290300	7506120	1851510	463768	0	236908	2
242.5	65346400	7869100	1567650	449840	0	241335	0
243.5	63480100	8282880	1318540	435830	0	244946	0
244.5	61693900	8761300	1111350	424378	0	247732	0
245.5	59988800	9313990	947650	418065	0	249697	0
246.5	58364400	9943320	824480	418772	0	250853	0
247.5	56819600	10641600	736070	426919	0	251221	0
248.5	55352200	11388900	675430	440819	0	250831	0
249.5	53959400	12153100	635640	456530	1	249721	0
250.5	52637900	12891000	610710	468446	2	247932	0
251.5	51384100	13552600	595870	470667	4	245512	0
252.5	50194000	14086300	587640	458725	6	242510	0
253.5	49063700	14445600	583660	431008	10	238979	0
254.5	47988900	14595600	582380	389263	16	234975	0
255.5	46965500	14517700	582890	337964	25	230555	0
256.5	45989300	14212400	584640	282840	40	225776	0
257.5	45056400	13698900	587370	229252	63	220699	0
258.5	44162700	13012100	590950	181028	97	215387	0
259.5	43304700	12198100	595340	140082	148	209906	0

260.5	42478500	11307500	600560	106701	223	204326	0
261.5	41680900	10390100	606650	80172	331	198726	0
262.5	40908500	9489920	613710	59392	486	193188	0
263.5	40158400	8641600	621820	43273	704	187803	0
264.5	39427700	7869330	631090	30901	1005	182673	0
265.5	38713600	7186760	641660	21557	1416	177903	0
266.5	38013900	6598390	653650	14655	1967	173606	0
267.5	37326200	6101610	667230	9700	2695	169897	0
268.5	36648500	5688910	682570	6257	3639	166885	0
269.5	35978900	5350040	699840	3948	4845	164668	0
270.5	35315800	5073760	719230	2455	6360	163326	0
271.5	34657500	4849110	740930	1525	8229	162909	0
272.5	34002800	4666240	765120	965	10497	163430	0
273.5	33350500	4516890	791990	638	13200	164855	0
274.5	32699700	4394470	821710	451	16363	167102	0
275.5	32049300	4294050	854450	346	19995	170036	0
276.5	31398800	4212180	890330	285	24086	173474	0
277.5	30747500	4146660	929470	247	28603	177191	0
278.5	30095100	4096340	971930	221	33487	180933	0
279.5	29441200	4060850	1017740	201	38651	184429	0
280.5	28785500	4040430	1066900	184	43984	187414	0
281.5	28128200	4035780	1119360	168	49351	189638	0
282.5	27469100	4047900	1175020	153	54598	190891	0
283.5	26808400	4077950	1233730	139	59562	191009	0
284.5	26146400	4127170	1295320	125	64076	189885	0
285.5	25483300	4196800	1359570	112	67979	187472	0
286.5	24819700	4287940	1426240	100	71127	183787	0
287.5	24156000	4401510	1495060	88	73402	178896	0
288.5	23492700	4538170	1565740	78	74717	172914	0
289.5	22830500	4698220	1638000	68	75025	165988	0
290.5	22170100	4881600	1711540	59	74317	158290	0
291.5	21512200	5087800	1786070	51	72627	149999	0
292.5	20857600	5315800	1861330	44	70029	141297	0
293.5	20207200	5564120	1937050	37	66626	132359	0
294.5	19561700	5830740	2013000	32	62552	123343	0
295.5	18922100	6113160	2088940	27	57955	114390	0
296.5	18289300	6408400	2164690	22	52996	105621	0
297.5	17664100	6713080	2240070	18	47831	97136	0
298.5	17047300	7023460	2314920	15	42613	89015	0
299.5	16440000	7335540	2389090	13	37477	81318	0
300.5	15842800	7645140	2462450	10	32540	74091	0
301.5	15256600	7947990	2534890	8	27896	67360	0
302.5	14682100	8239850	2606280	7	23613	61141	0
303.5	14120000	8516610	2676530	5	19737	55439	0



304.5	13570900	8774380	2745510	4	16293	50246	0
305.5	13035500	9009570	2813110	3	13283	45550	0
306.5	12514100	9218980	2879190	3	10697	41329	0
307.5	12007200	9399860	2943640	2	8509	37558	0
308.5	11515000	9549970	3006310	2	6686	34207	0
309.5	11038000	9667590	3067040	1	5191	31245	0
310.5	10576100	9751560	3125710	0	3982	28638	0
311.5	10129400	9801270	3182170	0	3018	26353	0
312.5	9698000	9816660	3236330	0	2261	24358	0
313.5	9281720	9798210	3288150	0	1673	22619	0
314.5	8880400	9746880	3337680	0	1224	21108	0
315.5	8493800	9664070	3385130	0	885	19796	0
316.5	8121640	9551630	3430950	0	633	18657	0
317.5	7763560	9411710	3475890	0	447	17670	0
318.5	7419170	9246790	3521150	0	312	16812	0
319.5	7088040	9059580	3568500	0	216	16067	0
320.5	6769740	8852920	3620450	0	147	15418	0
321.5	6463790	8629820	3680380	0	100	14852	0
322.5	6169740	8393300	3752670	0	67	14356	0
323.5	5887120	8146380	3842810	0	44	13921	0
324.5	5615500	7892040	3957340	0	29	13539	0
325.5	5354440	7633140	4103760	0	19	13202	0
326.5	5103550	7372400	4290190	0	12	12904	0
327.5	4862470	7112390	4524890	0	8	12641	0
328.5	4630880	6855460	4815530	0	5	12406	0
329.5	4408490	6603730	5168330	0	3	12198	0
330.5	4195060	6359130	5587050	0	2	12012	0
331.5	3990400	6123340	6071990	0	1	11847	0
332.5	3794350	5897820	6619080	0	0	11700	0
333.5	3606780	5683810	7219310	0	0	11569	0
334.5	3427620	5482360	7858500	0	0	11451	0
335.5	3256800	5294330	8517630	0	0	11347	0
336.5	3094290	5120440	9173790	0	0	11254	0
337.5	2940080	4961240	9801510	0	0	11171	0
338.5	2794150	4817210	10374600	0	0	11097	0
339.5	2656500	4688710	10868200	0	0	11032	0
340.5	2527140	4576050	11260700	0	0	10973	0
341.5	2406030	4479490	11535200	0	0	10921	0
342.5	2293150	4399270	11681100	0	0	10874	0
343.5	2188450	4335620	11694200	0	0	10832	0
344.5	2091850	4288760	11577000	0	0	10794	0
345.5	2003260	4258880	11337600	0	0	10759	0
346.5	1922530	4246210	10989300	0	0	10726	0
347.5	1849510	4250900	10548400	0	0	10696	0

348.5	1784020	4273110	10033400	0	0	10667	0
349.5	1725850	4312870	9463390	0	0	10638	0
350.5	1674750	4370130	8857010	0	0	10610	0
351.5	1630490	4444700	8231580	0	0	10581	0
352.5	1592780	4536160	7602500	0	0	10551	0
353.5	1561340	4643880	6982960	0	0	10520	0
354.5	1535890	4766910	6383830	0	0	10486	0
355.5	1516130	4904020	5813660	0	0	10450	0
356.5	1501770	5053600	5278860	0	0	10411	0
357.5	1492510	5213680	4783880	0	0	10369	0
358.5	1488090	5381950	4331410	0	0	10323	0
359.5	1488210	5555750	3922600	0	0	10273	0
360.5	1492630	5732140	3557350	0	0	10218	0
361.5	1501080	5907940	3234460	0	0	10158	0
362.5	1513350	6079830	2951900	0	0	10093	0
363.5	1529190	6244440	2707030	0	0	10023	0
364.5	1548410	6398460	2496760	0	0	9947	0
365.5	1570790	6538720	2317760	0	0	9865	0
366.5	1596150	6662350	2166580	0	0	9777	0
367.5	1624310	6766820	2039830	0	0	9682	0
368.5	1655070	6850070	1934260	0	0	9582	0
369.5	1688250	6910540	1846830	0	0	9475	0
370.5	1723690	6947230	1774760	0	0	9362	0
371.5	1761180	6959690	1715560	0	0	9242	0
372.5	1800540	6948070	1667070	0	0	9116	0
373.5	1841560	6913020	1627380	0	0	8984	0
374.5	1884030	6855660	1594890	0	0	8845	0
375.5	1927710	6777540	1568250	0	0	8701	0
376.5	1972360	6680510	1546330	0	0	8551	0
377.5	2017700	6566690	1528200	0	0	8396	0
378.5	2063450	6438330	1513120	0	0	8235	0
379.5	2109310	6297750	1500460	0	0	8070	0
380.5	2154930	6147280	1489760	0	0	7900	0
381.5	2199970	5989150	1480620	0	0	7727	0
382.5	2244060	5825470	1472760	0	0	7550	0
383.5	2286810	5658180	1465970	0	0	7370	0
384.5	2327830	5489000	1460110	0	0	7187	0
385.5	2366680	5319450	1455070	0	0	7003	0
386.5	2402970	5150800	1450840	0	0	6818	0
387.5	2436250	4984130	1447420	0	0	6632	0
388.5	2466120	4820280	1444880	0	0	6447	0
389.5	2492160	4659910	1443330	0	0	6264	0
390.5	2513990	4503510	1442930	0	0	6083	0
391.5	2531240	4351440	1443880	0	0	5905	0

392.5	2543560	4203910	1446420	0	0	5732	0
393.5	2550660	4061060	1450850	0	0	5564	0
394.5	2552300	3922940	1457500	0	0	5404	0
395.5	2548260	3789580	1466740	0	0	5253	0
396.5	2538400	3660940	1478990	0	0	5113	0
397.5	2522640	3536970	1494680	0	0	4986	0
398.5	2500960	3417630	1514290	0	0	4873	0
399.5	2473420	3302860	1538280	0	0	4778	0
400.5	2440130	3192620	1567150	0	0	4703	0
401.5	2401280	3086880	1601350	0	0	4652	0
402.5	2357120	2985610	1641340	0	0	4627	0
403.5	2307970	2888810	1687510	0	0	4634	0
404.5	2254200	2796470	1740200	0	0	4675	0
405.5	2196230	2708610	1799670	0	0	4756	0
406.5	2134510	2625230	1866050	0	0	4883	0
407.5	2069560	2546360	1939390	0	0	5061	0
408.5	2001880	2472010	2019560	0	0	5298	0
409.5	1932020	2402190	2106290	0	0	5600	0
410.5	1860500	2336900	2199130	0	0	5976	0
411.5	1787860	2276160	2297450	0	0	6434	0
412.5	1714620	2219940	2400460	0	0	6984	0
413.5	1641280	2168240	2507160	0	0	7638	0
414.5	1568300	2121010	2616400	0	0	8404	0
415.5	1496130	2078210	2726870	0	0	9297	0
416.5	1425140	2039800	2837140	0	0	10327	0
417.5	1355690	2005710	2945680	0	0	11508	0
418.5	1288080	1975860	3050900	0	0	12854	0
419.5	1222570	1950190	3151190	0	0	14378	0
420.5	1159370	1928590	3244940	0	0	16094	0
421.5	1098650	1910970	3330650	0	0	18015	0
422.5	1040520	1897240	3406900	0	0	20154	0
423.5	985080	1887290	3472420	0	0	22522	0
424.5	932360	1881000	3526130	0	0	25131	0
425.5	882380	1878280	3567170	0	0	27989	0
426.5	835140	1879000	3594900	0	0	31103	0
427.5	790590	1883040	3608960	0	0	34475	0
428.5	748670	1890290	3609220	0	0	38107	0
429.5	709320	1900620	3595820	0	0	41994	0
430.5	672450	1913910	3569110	0	0	46130	0
431.5	637950	1930030	3529720	0	0	50500	0
432.5	605750	1948840	3478410	0	0	55089	0
433.5	575720	1970220	3416170	0	0	59873	0
434.5	547770	1994020	3344080	0	0	64823	0
435.5	521790	2020080	3263340	0	0	69906	0

436.5	497680	2048250	3175220	0	0	75081	0
437.5	475350	2078370	3081020	0	0	80307	0
438.5	454690	2110270	2982020	0	0	85532	0
439.5	435620	2143740	2879510	0	0	90705	0
440.5	418050	2178610	2774690	0	0	95771	0
441.5	401910	2214650	2668730	0	0	100671	0
442.5	387120	2251650	2562660	0	0	105346	0
443.5	373610	2289370	2457470	0	0	109740	0
444.5	361320	2327570	2354020	0	0	113794	0
445.5	350190	2365980	2253040	0	0	117455	0
446.5	340170	2404330	2155210	0	0	120674	0
447.5	331220	2442360	2061070	0	0	123405	0
448.5	323280	2479760	1971090	0	0	125612	0
449.5	316330	2516260	1885650	0	0	127262	0
450.5	310330	2551560	1805070	0	0	128334	0
451.5	305260	2585370	1729630	0	0	128814	0
452.5	301090	2617400	1659550	0	0	128697	0
453.5	297800	2647400	1595060	0	0	127986	0
454.5	295380	2675100	1536360	0	0	126696	0
455.5	293830	2700280	1483690	0	0	124846	0
456.5	293140	2722720	1437320	0	0	122467	0
457.5	293320	2742270	1397550	0	0	119595	0
458.5	294360	2758790	1364770	0	0	116271	0
459.5	296300	2772180	1339430	0	0	112544	0
460.5	299140	2782420	1322030	0	0	108463	0
461.5	302910	2789510	1313180	0	0	104084	0
462.5	307650	2793510	1313550	0	0	99459	0
463.5	313380	2794560	1323850	0	0	94646	0
464.5	320150	2792820	1344850	0	0	89698	0
465.5	328010	2788530	1377280	0	0	84668	0
466.5	337010	2781990	1421870	0	0	79605	0
467.5	347200	2773540	1479210	0	0	74557	0
468.5	358630	2763550	1549760	0	0	69565	0
469.5	371380	2752470	1633780	0	0	64668	0
470.5	385480	2740760	1731200	0	0	59900	0
471.5	401010	2728890	1841640	0	0	55288	0
472.5	418000	2717400	1964280	0	0	50857	0
473.5	436500	2706780	2097860	0	0	46625	0
474.5	456560	2697560	2240590	0	0	42608	0
475.5	478170	2690250	2390180	0	0	38815	0
476.5	501370	2685330	2543830	0	0	35252	0
477.5	526120	2683250	2698280	0	0	31922	0
478.5	552400	2684460	2849860	0	0	28825	0
479.5	580140	2689310	2994620	0	0	25957	0

480.5	609270	2698130	3128460	0	0	23313	0
481.5	639680	2711200	3247280	0	0	20885	0
482.5	671220	2728710	3347140	0	0	18665	0
483.5	703720	2750790	3424530	0	0	16642	0
484.5	736980	2777500	3476440	0	0	14805	0
485.5	770780	2808830	3500620	0	0	13143	0
486.5	804860	2844680	3495680	0	0	11645	0
487.5	838950	2884890	3461170	0	0	10297	0
488.5	872760	2929200	3397640	0	0	9088	0
489.5	905980	2977290	3306620	0	0	8008	0
490.5	938300	3028770	3190550	0	0	7045	0
491.5	969410	3083160	3052620	0	0	6188	0
492.5	999000	3139940	2896630	0	0	5428	0
493.5	1026770	3198500	2726770	0	0	4754	0
494.5	1052450	3258190	2547410	0	0	4160	0
495.5	1075800	3318330	2362880	0	0	3635	0
496.5	1096600	3378160	2177250	0	0	3173	0
497.5	1114680	3436910	1994210	0	0	2768	0
498.5	1129910	3493800	1816890	0	0	2412	0
499.5	1142190	3548030	1647830	0	0	2100	0
500.5	1151500	3598790	1488950	0	0	1827	0
501.5	1157840	3645310	1341520	0	0	1589	0
502.5	1161270	3686810	1206240	0	0	1381	0
503.5	1161890	3722580	1083310	0	0	1200	0
504.5	1159870	3751960	972540	0	0	1042	0
505.5	1155370	3774340	873390	0	0	905	0
506.5	1148620	3789190	785120	0	0	785	0
507.5	1139860	3796070	706850	0	0	682	0
508.5	1129350	3794630	637640	0	0	592	0
509.5	1117360	3784650	576520	0	0	513	0
510.5	1104170	3765970	522580	0	0	446	0
511.5	1090050	3738590	474950	0	0	387	0
512.5	1075250	3702590	432870	0	0	336	0
513.5	1060020	3658190	395620	0	0	292	0
514.5	1044570	3605710	362590	0	0	254	0
515.5	1029090	3545570	333250	0	0	221	0
516.5	1013730	3478280	307140	0	0	192	0
517.5	998620	3404450	283860	0	0	167	0
518.5	983820	3324750	263060	0	0	146	0
519.5	969400	3239930	244440	0	0	127	0
520.5	955340	3150760	227750	0	0	111	0
521.5	941640	3058050	212770	0	0	97	0
522.5	928210	2962640	199300	0	0	85	0
523.5	914990	2865340	187180	0	0	74	0

524.5	901850	2766960	176260	0	0	65	0
525.5	888660	2668300	166400	0	0	57	0
526.5	875280	2570080	157510	0	0	50	0
527.5	861560	2473010	149480	0	0	44	0
528.5	847340	2377690	142230	0	0	39	0
529.5	832480	2284700	135670	0	0	34	0
530.5	816830	2194520	129760	0	0	30	0
531.5	800270	2107560	124430	0	0	27	0
532.5	782700	2024160	119630	0	0	24	0
533.5	764030	1944580	115320	0	0	21	0
534.5	744210	1869010	111460	0	0	19	0
535.5	723210	1797550	108030	0	0	16	0
536.5	701050	1730260	104990	0	0	15	0
537.5	677760	1667140	102330	0	0	13	0
538.5	653410	1608110	100020	0	0	12	0
539.5	628090	1553080	98050	0	0	10	0
540.5	601940	1501900	96410	0	0	9	0
541.5	575110	1454390	95080	0	0	8	0
542.5	547760	1410350	94070	0	0	8	0
543.5	520080	1369540	93380	0	0	7	0
544.5	492270	1331740	92990	0	0	6	0
545.5	464530	1296700	92920	1	0	6	0
546.5	437080	1264170	93180	2	0	5	0
547.5	410120	1233900	93760	2	0	5	0
548.5	383830	1205650	94690	3	0	4	0
549.5	358410	1179180	95980	4	0	4	0
550.5	334020	1154260	97650	5	0	4	0
551.5	310810	1130670	99720	7	0	3	0
552.5	288890	1108210	102230	9	0	3	0
553.5	268380	1086680	105190	12	0	3	0
554.5	249340	1065920	108640	16	0	3	0
555.5	231840	1045750	112630	20	0	2	0
556.5	215890	1026040	117190	26	0	2	0
557.5	201510	1006650	122360	34	0	2	0
558.5	188680	987460	128200	43	0	2	0
559.5	177360	968370	134750	55	0	2	0
560.5	167510	949300	142080	70	0	2	0
561.5	159050	930180	150220	88	0	2	0
562.5	151910	910950	159240	110	0	1	0
563.5	146000	891560	169190	137	0	1	0
564.5	141240	871990	180120	170	0	1	0
565.5	137520	852220	192070	209	0	1	0
566.5	134760	832240	205070	256	0	1	0
567.5	132850	812080	219160	312	0	1	0

568.5	131690	791740	234330	378	0	1	0
569.5	131210	771270	250590	456	0	1	0
570.5	131310	750700	267890	546	0	1	0
571.5	131910	730090	286180	652	0	1	0
572.5	132940	709500	305360	773	0	1	0
573.5	134320	689000	325320	911	0	1	0
574.5	136000	668670	345900	1069	0	1	0
575.5	137910	648600	366880	1248	0	1	0
576.5	140000	628860	388020	1449	0	1	0
577.5	142230	609550	409050	1673	0	1	0
578.5	144550	590770	429630	1922	0	1	0
579.5	146930	572610	449420	2196	0	1	0
580.5	149340	555170	468030	2497	0	1	0
581.5	151740	538530	485070	2823	0	1	0
582.5	154100	522790	500120	3176	0	1	0
583.5	156420	508020	512800	3554	0	0	0
584.5	158650	494310	522730	3957	0	0	0
585.5	160800	481730	529590	4383	0	0	0
586.5	162840	470330	533110	4830	0	0	0
587.5	164750	460170	533090	5294	0	0	0
588.5	166530	451280	529420	5775	0	0	0
589.5	168160	443700	522080	6266	0	0	0
590.5	169650	437430	511180	6765	0	0	0
591.5	170970	432490	496910	7267	0	0	0
592.5	172120	428850	479570	7766	0	0	0
593.5	173100	426490	459550	8258	0	0	0
594.5	173910	425380	437340	8737	0	0	0
595.5	174540	425450	413460	9198	0	0	0
596.5	174990	426640	388490	9635	0	0	0
597.5	175280	428880	363000	10043	0	0	0
598.5	175380	432060	337570	10416	0	0	0
599.5	175320	436100	312740	10749	0	0	0
600.5	175100	440870	288990	11039	0	0	0
601.5	174720	446260	266720	11281	0	0	0
602.5	174190	452150	246270	11472	0	0	0
603.5	173530	458410	227850	11609	0	0	0
604.5	172740	464900	211630	11691	0	0	0
605.5	171830	471490	197630	11717	0	0	0
606.5	170830	478060	185860	11686	0	0	0
607.5	169740	484460	176200	11599	0	0	0
608.5	168580	490570	168530	11457	0	0	0
609.5	167370	496290	162650	11263	0	0	0
610.5	166140	501480	158360	11020	0	0	0
611.5	164890	506070	155450	10730	0	0	0

612.5	163660	509950	153690	10399	0	0	0
613.5	162470	513040	152880	10031	0	0	0
614.5	161330	515300	152830	9630	0	0	0
615.5	160280	516650	153370	9202	0	0	0
616.5	159340	517070	154340	8752	0	0	0
617.5	158540	516540	155630	8285	0	0	0
618.5	157900	515050	157110	7806	0	0	0
619.5	157450	512600	158720	7321	0	0	0
620.5	157210	509230	160370	6835	0	0	0
621.5	157220	504960	162020	6352	0	0	0
622.5	157490	499840	163620	5875	0	0	0
623.5	158050	493940	165130	5410	0	0	0
624.5	158920	487310	166540	4959	0	0	0
625.5	160130	480050	167820	4525	0	0	0
626.5	161690	472230	168960	4110	0	0	0
627.5	163630	463940	169940	3717	0	0	0
628.5	165940	455280	170750	3346	0	0	0
629.5	168660	446340	171400	2998	0	0	0
630.5	171780	437220	171860	2675	0	0	0
631.5	175310	428020	172140	2376	0	0	0
632.5	179250	418830	172230	2101	0	0	0
633.5	183600	409730	172120	1849	0	0	0
634.5	188350	400830	171830	1621	0	0	0
635.5	193490	392180	171340	1414	0	0	0
636.5	199000	383870	170650	1229	0	0	0
637.5	204850	375960	169770	1063	0	0	0
638.5	211030	368500	168690	916	0	0	0
639.5	217510	361540	167430	785	0	0	0
640.5	224240	355110	165970	670	0	0	0
641.5	231180	349250	164330	570	0	0	0
642.5	238310	343980	162500	482	0	0	0
643.5	245560	339290	160510	407	0	0	0
644.5	252880	335190	158340	341	0	0	0
645.5	260230	331680	156000	285	0	0	0
646.5	267550	328720	153520	237	0	0	0
647.5	274780	326300	150880	197	0	0	0
648.5	281870	324370	148100	162	0	0	0
649.5	288750	322910	145200	133	0	0	0
650.5	295370	321860	142170	109	0	0	0
651.5	301670	321180	139040	89	0	0	0
652.5	307610	320800	135810	72	0	0	0
653.5	313110	320660	132480	58	0	0	0
654.5	318150	320710	129090	47	0	0	0
655.5	322660	320880	125630	38	0	0	0



656.5	326620	321100	122120	30	0	0	0
657.5	329970	321310	118570	24	0	0	0
658.5	332700	321440	114990	19	0	0	0
659.5	334780	321430	111400	15	0	0	0
660.5	336190	321230	107820	12	0	0	0
661.5	336900	320760	104250	9	0	0	0
662.5	336920	319980	100700	7	0	0	0
663.5	336240	318840	97200	6	0	0	0
664.5	334870	317300	93760	4	0	0	0
665.5	332810	315320	90380	3	0	0	0
666.5	330080	312850	87090	3	0	0	0
667.5	326700	309890	83900	2	0	0	0
668.5	322700	306400	80820	1	0	0	0
669.5	318100	302390	77870	1	0	0	0
670.5	312930	297830	75060	0	0	0	0
671.5	307250	292740	72400	0	0	0	0
672.5	301070	287110	69900	0	0	0	0
673.5	294450	280970	67590	0	0	0	0
674.5	287430	274340	65470	0	0	0	0
675.5	280050	267240	63550	0	0	0	0
676.5	272360	259700	61840	0	0	0	0
677.5	264400	251770	60350	0	0	0	0
678.5	256220	243470	59100	0	0	0	0
679.5	247870	234860	58080	0	0	0	0
680.5	239390	225980	57310	0	0	0	0
681.5	230820	216880	56790	0	0	0	0
682.5	222200	207600	56520	0	0	0	0
683.5	213570	198210	56500	0	0	0	0
684.5	204960	188750	56720	0	0	0	0
685.5	196420	179260	57200	0	0	0	0
686.5	187960	169810	57900	0	0	0	0
687.5	179630	160430	58840	0	0	0	0
688.5	171430	151160	59990	0	0	0	0
689.5	163410	142050	61330	0	0	0	0
690.5	155570	133140	62860	0	0	0	0
691.5	147940	124460	64550	0	0	0	0
692.5	140520	116030	66380	0	0	0	0
693.5	133340	107900	68310	0	0	0	0
694.5	126390	100070	70330	0	0	0	0
695.5	119700	92570	72400	0	0	0	0
696.5	113260	85410	74500	0	0	0	0
697.5	107080	78600	76580	0	0	0	0
698.5	101150	72150	78620	0	0	0	0
699.5	95490	66060	80580	0	0	0	0

700.5	90080	60340	82430	0	0	0	0
701.5	84930	54970	84140	0	0	0	0
702.5	80030	49960	85670	0	0	0	0
703.5	75370	45300	87000	0	0	0	0
704.5	70960	40980	88100	0	0	0	0
705.5	66780	36980	88950	0	0	0	0
706.5	62820	33300	89520	0	0	0	0
707.5	59090	29910	89810	0	0	0	0
708.5	55560	26810	89790	0	0	0	0
709.5	52240	23980	89460	0	0	0	0
710.5	49120	21410	88810	0	0	0	0
711.5	46180	19070	87850	0	0	0	0
712.5	43410	16950	86580	0	0	0	0
713.5	40820	15040	85010	0	0	0	0
714.5	38390	13320	83150	0	0	0	0
715.5	36110	11780	81010	0	0	0	0
716.5	33970	10390	78630	0	0	0	0
717.5	31970	9160	76020	0	0	0	0
718.5	30100	8060	73200	0	0	0	0
719.5	28350	7080	70210	0	0	0	0
720.5	26710	6210	67080	0	0	0	0
721.5	25190	5440	63820	0	0	0	0
722.5	23760	4770	60480	0	0	0	0
723.5	22430	4170	57080	0	0	0	0
724.5	21190	3650	53660	0	0	0	0
725.5	20030	3190	50230	0	0	0	0
726.5	18950	2790	46830	0	0	0	0
727.5	17940	2430	43490	0	0	0	0
728.5	17000	2130	40210	0	0	0	0
729.5	16130	1860	37030	0	0	0	0
730.5	15320	1630	33970	0	0	0	0
731.5	14560	1430	31020	0	0	0	0
732.5	13850	1260	28220	0	0	0	0
733.5	13190	1110	25560	0	0	0	0
734.5	12580	980	23060	0	0	0	0
735.5	12010	870	20720	0	0	0	0
736.5	11480	780	18540	0	0	0	0
737.5	10990	700	16510	0	0	0	0
738.5	10540	630	14650	0	0	0	0
739.5	10110	570	12950	0	0	0	0
740.5	9720	520	11390	0	0	0	0
741.5	9350	480	9990	0	0	0	0
742.5	9010	450	8720	0	0	0	0
743.5	8700	420	7580	0	0	0	0

744.5	8410	400	6560	0	0	0	0
745.5	8140	380	5650	0	0	0	0
746.5	7890	370	4850	0	0	0	0
747.5	7670	360	4150	0	0	0	0
748.5	7460	360	3530	0	0	0	0
749.5	7270	360	2990	0	0	0	0
750.5	7090	360	2530	0	0	0	0
751.5	6930	360	2130	0	0	0	0
752.5	6790	370	1780	0	0	0	0
753.5	6660	370	1490	0	0	0	0
754.5	6540	380	1230	0	0	0	0
755.5	6440	400	1020	0	0	0	0
756.5	6350	410	840	0	0	0	0
757.5	6270	430	690	0	0	0	0
758.5	6200	450	560	0	0	0	0
759.5	6150	470	460	0	0	0	0
760.5	6100	500	370	0	0	0	0
761.5	6070	530	300	0	0	0	0
762.5	6050	560	240	0	0	0	0
763.5	6040	590	190	0	0	0	0
764.5	6040	630	150	0	0	0	0
765.5	6050	670	120	0	0	0	0
766.5	6070	720	100	0	0	0	0
767.5	6100	770	80	0	0	0	0
768.5	6140	820	60	0	0	0	0
769.5	6190	880	50	0	0	0	0
770.5	6250	950	40	0	0	0	0
771.5	6330	1020	30	0	0	0	0
772.5	6410	1100	20	0	0	0	0
773.5	6510	1190	20	0	0	0	0
774.5	6620	1280	10	0	0	0	0
775.5	6740	1380	10	0	0	0	0
776.5	6880	1500	0	0	0	0	0
777.5	7020	1620	0	0	0	0	0
778.5	7190	1760	0	0	0	0	0
779.5	7360	1910	0	0	0	0	0
780.5	7550	2070	0	0	0	0	0
781.5	7760	2250	0	0	0	0	0
782.5	7990	2440	0	0	0	0	0
783.5	8230	2650	0	0	0	0	0
784.5	8490	2890	0	0	0	0	0
785.5	8770	3140	0	0	0	0	0
786.5	9070	3420	0	0	0	0	0
787.5	9390	3730	0	0	0	0	0

788.5	9730	4070	0	0	0	0	0
789.5	10100	4430	0	0	0	0	0
790.5	10490	4830	0	0	0	0	0
791.5	10910	5270	0	0	0	0	0
792.5	11360	5750	0	0	0	0	0
793.5	11840	6270	0	0	0	0	0
794.5	12350	6840	0	0	0	0	0
795.5	12890	7460	0	0	0	0	0
796.5	13460	8140	0	0	0	0	0
797.5	14080	8880	0	0	0	0	0
798.5	14730	9680	0	0	0	0	0
799.5	15420	10560	0	0	0	0	0
800.5	16150	11510	0	0	0	0	0
801.5	16930	12540	0	0	0	0	0
802.5	17750	13660	0	0	0	0	0
803.5	18630	14880	0	0	0	0	0
804.5	19550	16200	0	0	0	0	0
805.5	20530	17630	0	0	0	0	0
806.5	21570	19170	0	0	0	0	0
807.5	22660	20840	0	0	0	0	0
808.5	23820	22640	0	0	0	0	0
809.5	25040	24580	0	0	0	0	0
810.5	26320	26670	0	0	0	0	0
811.5	27670	28920	0	0	0	0	0
812.5	29090	31340	0	0	0	0	0
813.5	30590	33930	0	0	0	0	0
814.5	32160	36710	0	0	0	0	0
815.5	33800	39680	0	0	0	0	0
816.5	35530	42850	0	0	0	0	0
817.5	37330	46230	0	0	0	0	0
818.5	39220	49840	0	0	0	0	0
819.5	41180	53670	0	0	0	0	0
820.5	43230	57740	0	0	0	0	0
821.5	45360	62050	0	0	0	0	0
822.5	47580	66610	0	0	0	0	0
823.5	49870	71420	0	0	0	0	0
824.5	52250	76500	0	0	0	0	0
825.5	54710	81840	0	0	0	0	0
826.5	57240	87440	0	0	0	0	0
827.5	59850	93320	0	0	0	0	0
828.5	62530	99460	0	0	0	0	0
829.5	65270	105870	0	0	0	0	0
830.5	68080	112540	0	0	0	0	0
831.5	70950	119480	0	0	0	0	0

832.5	73860	126660	0	0	0	0	0
833.5	76820	134090	0	0	0	0	0
834.5	79810	141740	0	0	0	0	0
835.5	82830	149620	0	0	0	0	0
836.5	85860	157700	0	0	0	0	0
837.5	88900	165970	0	0	0	0	0
838.5	91940	174410	0	0	0	0	0
839.5	94960	182990	0	0	0	0	0
840.5	97950	191690	0	0	0	0	0
841.5	100900	200480	0	0	0	0	0
842.5	103790	209340	0	0	0	0	0
843.5	106610	218230	0	0	0	0	0
844.5	109340	227120	0	0	0	0	0
845.5	111970	235980	0	0	0	0	0
846.5	114490	244770	0	0	0	0	0
847.5	116880	253450	0	0	0	0	0
848.5	119120	261990	0	0	0	0	0
849.5	121200	270340	0	0	0	0	0
850.5	123110	278470	0	0	0	0	0
851.5	124830	286330	0	0	0	0	0
852.5	126340	293890	0	0	0	0	0
853.5	127640	301100	0	0	0	0	0
854.5	128710	307930	0	0	0	0	0
855.5	129550	314340	0	0	0	0	0
856.5	130140	320280	0	0	0	0	0
857.5	130480	325740	0	0	0	0	0
858.5	130560	330670	0	0	0	0	0
859.5	130380	335040	0	0	0	0	0
860.5	129930	338820	0	0	0	0	0
861.5	129220	342000	0	0	0	0	0
862.5	128250	344550	0	0	0	0	0
863.5	127020	346450	0	0	0	0	0
864.5	125530	347690	0	0	0	0	0
865.5	123810	348260	0	0	0	0	0
866.5	121850	348150	0	0	0	0	0
867.5	119680	347370	0	0	0	0	0
868.5	117310	345900	0	0	0	0	0
869.5	114760	343770	0	0	0	0	0
870.5	112040	340980	0	0	0	0	0
871.5	109200	337540	0	0	0	0	0
872.5	106240	333470	0	0	0	0	0
873.5	103200	328800	0	0	0	0	0
874.5	100100	323550	0	0	0	0	0
875.5	96990	317750	0	0	0	0	0

876.5	93890	311440	0	0	0	0	0
877.5	90840	304640	0	0	0	0	0
878.5	87870	297390	0	0	0	0	0
879.5	85020	289730	0	0	0	0	0
880.5	82320	281710	0	0	0	0	0
881.5	79810	273360	0	0	0	0	0
882.5	77520	264730	0	0	0	0	0
883.5	75490	255850	0	0	0	0	0
884.5	73740	246780	0	0	0	0	0
885.5	72310	237560	0	0	0	0	0
886.5	71210	228220	0	0	0	0	0
887.5	70460	218810	0	0	0	0	0
888.5	70090	209370	0	0	0	0	0
889.5	70090	199940	0	0	0	0	0
890.5	70470	190550	0	0	0	0	0
891.5	71230	181240	0	0	0	0	0
892.5	72360	172050	0	0	0	0	0
893.5	73830	163000	0	0	0	0	0
894.5	75630	154120	0	0	0	0	0
895.5	77720	145430	0	0	0	0	0
896.5	80060	136970	0	0	0	0	0
897.5	82620	128740	0	0	0	0	0
898.5	85330	120770	0	0	0	0	0
899.5	88150	113080	0	0	0	0	0
900.5	91010	105670	0	0	0	0	0
901.5	93850	98550	0	0	0	0	0
902.5	96620	91730	0	0	0	0	0
903.5	99240	85230	0	0	0	0	0
904.5	101660	79030	0	0	0	0	0
905.5	103820	73140	0	0	0	0	0
906.5	105660	67560	0	0	0	0	0
907.5	107130	62290	0	0	0	0	0
908.5	108200	57320	0	0	0	0	0
909.5	108820	52650	0	0	0	0	0
910.5	108980	48270	0	0	0	0	0
911.5	108640	44180	0	0	0	0	0
912.5	107810	40350	0	0	0	0	0
913.5	106480	36790	0	0	0	0	0
914.5	104670	33480	0	0	0	0	0
915.5	102380	30410	0	0	0	0	0
916.5	99660	27580	0	0	0	0	0
917.5	96530	24960	0	0	0	0	0
918.5	93020	22560	0	0	0	0	0
919.5	89200	20350	0	0	0	0	0

920.5	85100	18320	0	0	0	0	0
921.5	80770	16470	0	0	0	0	0
922.5	76280	14780	0	0	0	0	0
923.5	71670	13240	0	0	0	0	0
924.5	66990	11840	0	0	0	0	0
925.5	62300	10570	0	0	0	0	0
926.5	57650	9430	0	0	0	0	0
927.5	53060	8390	0	0	0	0	0
928.5	48590	7460	0	0	0	0	0
929.5	44270	6630	0	0	0	0	0
930.5	40130	5880	0	0	0	0	0
931.5	36190	5210	0	0	0	0	0
932.5	32470	4610	0	0	0	0	0
933.5	28990	4080	0	0	0	0	0
934.5	25750	3610	0	0	0	0	0
935.5	22750	3200	0	0	0	0	0
936.5	20000	2840	0	0	0	0	0
937.5	17490	2520	0	0	0	0	0
938.5	15220	2250	0	0	0	0	0
939.5	13180	2020	0	0	0	0	0
940.5	11360	1830	0	0	0	0	0
941.5	9740	1670	0	0	0	0	0
942.5	8300	1550	0	0	0	0	0
943.5	7050	1460	0	0	0	0	0
944.5	5950	1400	0	0	0	0	0
945.5	5000	1390	0	0	0	0	0
946.5	4180	1410	0	0	0	0	0
947.5	3480	1480	0	0	0	0	0
948.5	2880	1600	0	0	0	0	0
949.5	2370	1790	0	0	0	0	0
950.5	1940	2050	0	0	0	0	0
951.5	1580	2400	0	0	0	0	0
952.5	1290	2870	0	0	0	0	0
953.5	1040	3490	0	0	0	0	0
954.5	830	4280	0	0	0	0	0
955.5	670	5290	0	0	0	0	0
956.5	530	6570	0	0	0	0	0
957.5	420	8180	0	0	0	0	0
958.5	330	10200	0	0	0	0	0
959.5	260	12710	0	0	0	0	0
960.5	200	15790	0	0	0	0	0
961.5	160	19570	0	0	0	0	0
962.5	120	24170	0	0	0	0	0
963.5	90	29710	0	0	0	0	0

964.5	70	36350	0	0	0	0	0
965.5	50	44230	0	0	0	0	0
966.5	40	53510	0	0	0	0	0
967.5	30	64360	0	0	0	0	0
968.5	20	76930	0	0	0	0	0
969.5	20	91370	0	0	0	0	0
970.5	10	107830	0	0	0	0	0
971.5	0	126430	0	0	0	0	0
972.5	0	147270	0	0	0	0	0
973.5	0	170430	0	0	0	0	0
974.5	0	195960	0	0	0	0	0
975.5	0	223900	0	0	0	0	0
976.5	0	254240	0	0	0	0	0
977.5	0	286970	0	0	0	0	0
978.5	0	322060	0	0	0	0	0
979.5	0	359480	0	0	0	0	0
980.5	0	399230	0	0	0	0	0
981.5	0	441360	0	0	0	0	0
982.5	0	485970	0	0	0	0	0
983.5	0	533300	0	0	0	0	0
984.5	0	583700	0	0	0	0	0
985.5	0	637750	0	0	0	0	0
986.5	0	696270	0	0	0	0	0
987.5	0	760430	0	0	0	0	0
988.5	0	831790	0	0	0	0	0
989.5	0	912450	0	0	0	0	0
990.5	0	1005160	0	0	0	0	0
991.5	0	1113500	0	0	0	0	0
992.5	0	1242070	0	0	0	0	0
993.5	0	1396770	0	0	0	0	0
994.5	0	1585150	0	0	0	0	0
995.5	0	1816890	0	0	0	0	0
996.5	0	2104340	0	0	0	0	0
997.5	0	2463330	0	0	0	0	0
998.5	0	2914140	0	0	0	0	0
999.5	0	3482830	0	0	0	0	0



The data displayed in Figures 2e-2i were computed and created by the manufacturer's proprietary program using the raw particle counting data. They were printed in summary reports by the program without numerical table of data display.

Table of supporting data for Figure 3a

Plasma treatment time

0 min.		15 min.		30 min.		45 min.		60 min.		120 min.	
dw/dlogM	MW (Da)	dw/dlogM	MW (Da)	dw/dlogM	MW (Da)	dw/dlogM	MW (Da)	dw/dlogM	MW (Da)	dw/dlogM	MW (Da)
0.053892	30917	0.037304	100641	0.127055	332164	0.00443	276472.00	3.31945	411850	1.94839	332291
0.064671	33562	0.087931	101502	0.239163	337652	0.00443	276472.00	3.31945	418960	2.0129	338154
0.074551	38351	0.135893	105021	0.38864	343232	0.110759	284590.00	3.32017	423838	2.07742	346131
0.086228	44276	0.19185	112429	0.523169	346056	0.23481	289335.00	3.32125	434204	2.16129	348155
0.093413	50078	0.242476	118326	0.657698	348903	0.376582	299063.00	3.32341	444823	2.23871	356368
0.107784	54923	0.293103	125598	0.859492	353218	0.536076	301546.00	3.31909	454785	2.30968	364775
0.117665	62119	0.351724	131064	0.994021	354668	0.664557	311685.00	3.31476	468258	2.34839	382189
0.13024	68129	0.394357	132186	1.13602	359054	0.793038	318195.00	3.30899	479468	2.34839	398107
0.142814	74721	0.444984	137938	1.27055	360528	0.925949	328894.00	3.30394	488728	2.35484	424471
0.158982	81113	0.484953	140309	1.46487	367990	1.01899	334377.00	3.29782	501942	2.39355	437025
0.17515	90805	0.53558	146416	1.65172	375606	1.14304	345621.00	3.29313	518376	2.45161	442150
0.189521	99590	0.583542	151492	1.83857	381813	1.25823	354300.00	3.2852	534540	2.55484	452581
0.202994	104833	0.631505	156744	2.03288	396155	1.36899	367730.00	3.28448	540764	2.63871	455227
0.22006	111490	0.682132	167800	2.16741	402701	1.46646	373862.00	3.27943	548716	2.70968	463258
0.236228	122277	0.727429	172144	2.33931	429984	1.58608	383251.00	3.27546	555945	2.76129	479748
0.250599	132738	0.791379	185864	2.51121	440685	1.75443	394503.00	3.26284	566681	2.69677	491065
0.267665	141167	0.839342	197286	2.713	446135	1.86519	402742.00	3.25419	575883	2.59355	499729
0.283832	156421	0.903292	202394	2.8849	455369	1.97595	412856.00	3.24626	584352	2.47742	511518
0.300000	169803	0.956583	211203	3.04185	457238	2.11772	426738.00	3.23544	592050	2.34839	523585
0.315269	182449	1.00987	218525	3.26607	470541	2.25063	432063.00	3.22607	602573	2.36129	539071
0.334132	192054	1.07116	226101	3.44544	478316	2.37911	442914.00	3.21597	611741	2.44516	581510
0.351198	202164	1.12179	233939	3.60239	492233	2.4943	452164.00	3.20263	622928	2.45806	602209
0.369162	224010	1.16442	242049	3.66966	502421	2.5962	461608.00	3.19686	631770	2.38065	627290
0.387126	235803	1.20705	252584	3.63976	517039	2.64051	473200.00	3.18496	647546	2.25161	645843
0.404192	248217	1.24969	259123	3.49776	538662	2.58734	495215.00	3.17415	661715	2.19355	661079
0.425749	272231	1.29498	268106	3.40807	549811	2.50316	513986.00	3.16874	672460	2.09677	688612
0.448204	289518	1.35094	284583	3.28849	570463	2.60506	542364.00	3.15828	687520	1.9871	717293
0.463473	307903	1.3989	302072	3.25859	596761	2.72911	565255.00	3.15323	700798	1.85161	734214
0.485928	330832	1.45219	307264	3.07175	626835	2.64051	596463.00	3.14638	713613	1.66452	782836
0.505689	344694	1.50282	337454	2.97459	637192	2.51646	608920.00	3.13809	729595	1.53548	810701
0.520958	374183	1.55345	358193	2.76532	669303	2.42785	624212.00	3.1298	738462	1.32903	839558
0.538024	410384	1.54013	396753	2.571	683156	2.30823	647873.00	3.11574	751966	1.16129	864388
0.550599	440946	1.58009	428373	2.36173	697295	2.2019	675217.00	3.10456	760723	0.948387	889953
0.561377	498725	1.56411	462514	2.13004	714649	2.08228	697921.00	3.08725	772298	0.780645	927019
0.565868	569893	1.55345	499376	1.86846	732434	1.98481	721388.00	3.07247	782078	0.645161	948889
0.551497	644569	1.50282	543789	1.6293	744537	1.91392	761216.00	3.05589	793978	0.432258	1000000
0.541617	699713	1.45486	562641	1.44245	782057	1.82532	780333.00	3.04363	811351	0.283871	1085030
0.531737	736549	1.38292	597218	1.25561	821468	1.68797	796630.00	3.03858	817912	0.245161	1130220
0.514671	791399	1.33762	623210	1.06876	852325	1.55063	820019.00	3.03642	829521	0.225807	1191100
0.501198	816140	1.25502	655898	0.881913	880724	1.36456	840613.00			0.187097	1233500
0.489521	867966	1.19373	667170	0.620329	895277	1.20063	858169.00			0.135484	1255260
0.46976	932603	1.1511	690300	0.418535	921325	1.08987	890698.00			0.064516	1262600
0.451796	951940	1.08981	696207	0.254111	932719	1.04114	916849.00				
0.432934	1002050	0.996552	732723	0.119581	940393	1.01013	959504.00				
0.41497	1076680	0.919279	758125	0.007474	959857	0.921519	971477.00				
0.39521	1133360	0.847335	797889			0.731013	995875.00				
0.380838	1205330	0.796708	804717			0.58038	1020880.00				
0.361976	1405890	0.735423	832615			0.46519	1033620.00				
0.347605	1726140	0.626176	868851			0.332278	1050860.00				
0.350299	2013360	0.53558	891346			0.279114	1095210.00				
0.347605	2656090	0.452978	898973			0.323418	1122710.00				
0.340419	3162280	0.359718	938097			0.274684	1160460.00				

0.330539	3613530	0.213166	995749		0.203797	1179810.00			
0.317964	4087030	0.117241	1030270		0.159494	1199480.00			
0.30988	4528680				0.11519	1224540.00			
0.301796	5228290				0.150633	1255290.00			
0.299102	6098250				0.181646	1276220.00			
0.288323	6968470				0.128481	1297500.00			
0.282036	8296500				0.075317	1313690.00			
0.26497	9578190				0.008861	1341120.00			
0.260479	11287200								
0.254192	12506900								
0.247904	14001300								
0.243413	16669600								
0.230838	19244800								
0.219162	21324400								
0.214671	23387500								
0.202096	27000500								
0.181437	31171700								
0.177844	34896400								
0.16976	37112400								
0.156287	41546900								
0.139222	49974900								
0.123952	57106400								
0.117665	66608500								
0.116766	74567400								
0.104192	81781700								
0.098802	97367400								
0.099701	112409000								

Table of supporting data for Figure 3b

Plasma Treatment time											
15 min.		30 min.		45 min.		60 min.		120 min.		180 min.	
dW/dlogM	MW (Da)	dW/dlogM	MW (Da)	dW/dlogM	MW (Da)	dW/dlogM	MW (Da)	dW/dlogM	MW (Da)	dW/dlogM	MW (Da)
1.1267	108	1.2707	100	1.3814	125	0.0029	56	1.0974	89	1.2223	96
1.1284	118	1.2707	100	1.3193	95	0.0431	56	1.1035	96	1.2475	106
1.1335	127	1.2796	112	1.3342	106	0.0737	56	1.1309	104	1.2836	116
1.1369	141	1.2885	123	1.3540	115	0.1082	56	1.1736	113	1.3431	127
1.1402	151	1.2997	138	1.4112	141	0.1389	57	1.2133	123	1.4170	149
1.1554	178	1.3175	154	1.4410	157	0.1877	58	1.2529	136	1.4783	165
1.1723	199	1.3175	154	1.4733	176	0.2270	58	1.2804	148	1.5432	176
1.1554	219	1.3175	168	1.5155	190	0.2662	59	1.3231	162	1.6063	193
1.1166	235	1.3309	179	1.5354	206	0.2978	58	1.3628	177	1.6315	204
1.0761	249	1.3443	195	1.4832	226	0.3428	58	1.4146	191	1.6333	214
1.0322	259	1.3287	215	1.4211	235	0.3879	59	1.4360	205	1.6063	225
0.9866	269	1.2819	225	1.3540	244	0.4290	59	1.4085	219	1.5702	229
0.9427	285	1.2373	238	1.2994	252	0.4721	61	1.3597	229	1.5342	234
0.8886	302	1.1771	250	1.2224	260	0.5085	61	1.2956	237	1.4729	241
0.8447	320	1.1191	258	1.1354	273	0.5449	61	1.2316	245	1.4044	252
0.8076	344	1.0678	268	1.0832	282	0.5851	61	1.1706	258	1.3358	258
0.7653	375	1.0143	279	1.0335	289	0.6139	63	1.1706	258	1.2818	266
0.7147	415	1.0143	279	0.9814	296	0.6445	64	1.1187	263	1.1988	279
0.6657	448	0.9564	291	0.9168	309	0.6876	64	1.0608	270	1.1087	285
0.6353	476	0.9185	301	0.8472	325	0.7173	67	0.9845	282	1.0059	301
0.5982	505	0.9185	301	0.7901	348	0.7489	73	0.9235	291	0.9392	316
0.5678	539	0.8672	318	0.7354	366	0.7364	85	0.8747	302	0.8527	332
0.5323	570	0.8182	335	0.6807	390	0.7345	97	0.8107	323	0.7337	368
0.5036	628	0.7736	352	0.6311	415	0.7527	113	0.7344	352	0.6400	399
0.4732	692	0.7223	375	0.5565	453	0.7786	126	0.6826	384	0.5138	471
0.4428	787	0.6710	398	0.5019	494	0.8035	141	0.6277	429	0.4453	515
0.4090	892	0.5997	431	0.4547	539	0.8236	161	0.5850	468	0.3732	600
0.3820	1039	0.5439	477	0.3950	607	0.8533	182	0.5240	519	0.3317	699
0.3634	1177	0.5061	510	0.3478	683	0.8743	201	0.4843	565	0.2812	840
0.3415	1452	0.4682	550	0.3106	760	0.8561	221	0.4508	616	0.2398	975
0.3229	1790	0.4414	596	0.2807	834	0.8255	239	0.4203	671	0.2073	1211
0.3026	2172	0.4102	643	0.2584	922	0.7824	251	0.3867	770	0.1821	1394
0.2891	2541	0.3857	688	0.2410	1032	0.7470	260	0.3532	892		
0.2756	2891	0.3522	767	0.2236	1169	0.7125	269	0.3349	1014		
0.2638	3263	0.3210	849	0.2012	1284	0.6637	283	0.3166	1205		
0.2520	3727	0.3076	943	0.1764	1510	0.6292	303	0.3105	1407		
0.2520	3742	0.2854	1065			0.5995	320	0.2922	1614		
0.2351	4378	0.2697	1169			0.5689	341				
		0.2697	1169			0.5440	367				
		0.2519	1309			0.5152	408				
		0.2385	1530			0.4798	457				
		0.2118	1736			0.4578	495				
		0.1962	2037			0.4396	532				
		0.1783	2311			0.4252	579				
		0.1672	2503			0.4080	647				
		0.1516	2758			0.3888	750				
		0.1360	3051			0.3697	903				

		0.1182	3506			0.3553	1093				
						0.3495	1334				
						0.3467	1712				
						0.3352	2225				
						0.3275	2647				
						0.3218	3530				
						0.3093	4399				

The data displayed in Figures 3c and 3d were computed and created by the manufacturer's proprietary program using the raw spectroscopy data. They were printed in summary reports by the program without numerical table of data display.

Tables of supporting data for Figure 4a

Ozonation treatment time (min)	Concentration of particles in ozonated solution (particles/mL)	
	Average	$\sigma$
0	6.86E+09	5.79E+08
60	5.35E+09	6.14E+08
120	3.99E+09	2.83E+08
180	4.01E+09	1.47E+08

Concentration of particles in DI water (particles/mL)	
Average	$\sigma$
8.24E+07	1.13E+07

Tables of supporting data for Figure 4b

Ozonation time (0 hr)		Ozonation time (1 hr)		Ozonation time (2 hr)		Ozonation time (3 hr)	
Concentration (particles/mL)	Size (nm)	Concentration (particles/mL)	Size (nm)	Concentration (particles/mL)	Size (nm)	Concentration (particles/mL)	Size (nm)
0	2.50	0	2.50	0	2.50	0	2.50
0	4.68	0	4.68	0	4.68	0	4.68
0	4.86	0	4.86	0	4.86	0	4.86
0	5.03	0	5.03	0	5.03	0	5.03
0	5.22	0	5.22	0	5.22	0	5.22
0	5.41	0	5.41	0	5.41	0	5.41
0	5.61	0	5.61	0	5.61	0	5.61
0	5.81	0	5.81	0	5.81	0	5.81
0	6.03	0	6.03	0	6.03	0	6.03
0	6.25	0	6.25	0	6.25	0	6.25
0	6.47	0	6.47	0	6.47	0	6.47
0	6.71	0	6.71	0	6.71	0	6.71
0	6.96	0	6.96	0	6.96	0	6.96
0	7.21	0	7.21	0	7.21	0	7.21
0	7.48	0	7.48	0	7.48	0	7.48
0	7.50	0	7.50	0	7.50	0	7.50
0	7.75	0	7.75	0	7.75	0	7.75
0	8.03	0	8.03	0	8.03	0	8.03
0	8.33	0	8.33	0	8.33	0	8.33
0	8.63	227	8.63	0	8.63	0	8.63
0	8.95	2268	8.95	0	8.95	0	8.95
0	9.28	10204	9.28	0	9.28	0	9.28
0	9.62	27211	9.62	0	9.62	0	9.62
0	9.97	47619	9.97	0	9.97	0	9.97
0	10.34	57143	10.34	0	10.34	0	10.34
430	10.71	48073	10.71	0	10.71	0	10.71
4297	11.11	31745	11.11	0	11.11	0	11.11
19336	11.51	30607	11.51	0	11.51	0	11.51
51992	11.93	56675	11.93	0	11.93	0	11.93
94531	12.37	95667	12.37	0	12.37	0	12.37
127617	12.50	116524	12.50	0	12.50	0	12.50
141797	12.83	105418	12.83	0	12.83	0	12.83
141797	13.30	81619	13.30	0	13.30	0	13.30
127617	13.78	68022	13.78	0	13.78	0	13.78
94531	14.29	61677	14.29	0	14.29	0	14.29
53711	14.81	48299	14.81	0	14.81	271	14.81
36953	15.35	29479	15.35	0	15.35	2705	15.35
85938	15.92	20635	15.92	0	15.92	12443	15.92
226874	16.50	31746	16.50	0	16.50	35166	16.50
421514	17.10	58050	17.10	0	17.10	68980	17.10



566284	17.50	84354	17.50	237	17.50	100629	17.50
591992	17.73	95238	17.73	2366	17.73	113884	17.73
532607	18.38	84354	18.38	10647	18.38	103334	18.38
459090	19.05	57823	19.05	29339	19.05	81423	19.05
420029	19.75	29479	19.75	59622	19.75	70332	19.75
488867	20.47	10431	20.47	106937	20.47	81423	20.47
752339	21.22	2268	21.22	184766	21.22	103334	21.22
1163580	22.00	454	22.00	286249	22.00	113884	22.00
1508630	22.50	2494	22.50	359107	22.50	100899	22.50
1623360	22.81	12472	22.81	348697	22.81	71685	22.81
1574370	23.64	39002	23.64	262826	23.64	47609	23.64
1574710	24.51	91377	24.51	158977	24.51	47609	24.51
1805540	25.41	183193	25.41	80438	25.41	71685	25.41
2287330	26.34	328723	26.34	34306	26.34	101170	26.34
2781850	27.30	506665	27.30	13486	27.30	116318	27.30
2912840	27.50	639053	27.50	13486	27.50	113612	27.50
2592100	28.30	657882	28.30	33360	28.30	109816	28.30
2238960	29.34	589213	29.34	71212	29.34	131152	29.34
2354590	30.41	521218	30.41	118997	30.41	190590	30.41
2920040	31.53	496967	31.53	162284	31.53	267858	31.53
3416930	32.50	487674	32.50	190671	32.50	322961	32.50
3452960	32.68	472257	32.68	215516	32.68	350463	32.68
3168620	33.88	496731	33.88	274428	33.88	413513	33.88
2937450	35.12	618680	35.12	397678	35.12	584977	35.12
2852270	36.41	803883	36.41	558771	36.41	834640	36.41
2714860	37.50	929475	37.50	687450	37.50	1013630	37.50
2461250	37.74	922688	37.74	760062	37.74	1006040	37.74
2347490	39.12	865364	39.12	842135	39.12	879638	39.12
2623780	40.56	910987	40.56	997317	40.56	816161	40.56
3177960	42.04	1108070	42.04	1196050	42.04	894571	42.04
3671260	42.50	1372700	42.50	1386300	42.50	1028280	42.50
3984150	43.58	1658830	43.58	1612250	43.58	1133660	43.58
4292380	45.18	2050090	45.18	1936800	45.18	1248950	45.18
4647580	46.83	2568250	46.83	2259180	46.83	1423190	46.83
4828750	47.50	2994340	47.50	2394210	47.50	1617430	47.50
4788950	48.55	3079730	48.55	2377180	48.55	1825880	48.55
4829480	50.33	2861850	50.33	2481790	50.33	2145620	50.33
5069010	52.17	2574450	52.17	2852570	52.17	2589460	52.17
5192780	52.50	2359640	52.50	3326000	52.50	3009450	52.50
4989740	54.08	2245020	54.08	3685850	54.08	3336750	54.08
4667900	56.07	2240310	56.07	3885770	56.07	3683630	56.07
4459310	57.50	2320120	57.50	4008340	57.50	4140000	57.50
4391820	58.12	2463590	58.12	4227450	58.12	4729550	58.12
4514420	60.25	2729960	60.25	4752190	60.25	5543720	60.25
4909260	62.46	3163240	62.46	5607150	62.46	6636070	62.46

5504000	62.50	3725990	62.50	6609940	62.50	7885330	62.50
6126660	64.74	4414550	64.74	7674440	64.74	9162400	64.74
6603560	67.12	5246160	67.12	8865970	67.12	10457500	67.12
6793360	67.50	6127630	67.50	10156100	67.50	11836000	67.50
6806570	69.57	6992740	69.57	11513000	69.57	13509200	69.57
7056930	72.12	7989100	72.12	13151800	72.12	15724500	72.12
7783670	72.50	9233070	72.50	15239100	72.50	18279200	72.50
8728670	74.76	10486800	74.76	17444000	74.76	20454300	74.76
9539370	77.50	11387800	77.50	19254900	77.50	21738600	77.50
10179900	77.50	11932000	77.50	20649900	77.50	22385900	77.50
10640300	80.34	12469400	80.34	21928800	80.34	23093300	80.34
10618900	82.50	13308900	82.50	23055500	82.50	24470500	82.50
9945730	83.29	14528500	83.29	23866500	83.29	26912400	83.29
9031170	86.34	15985300	86.34	24707600	86.34	30340200	86.34
8493100	87.50	17347600	87.50	26063400	87.50	33806800	87.50
8593230	89.50	18348200	89.50	27683700	89.50	35970400	89.50
9293990	92.50	19075200	92.50	28744100	92.50	36218200	92.50
10519100	92.78	19810500	92.78	28898300	92.78	35078100	92.78
11990400	96.18	20637500	96.18	28660700	96.18	33608200	96.18
13049200	97.50	21455000	97.50	28550000	97.50	32537200	97.50
13151900	99.70	22335200	99.70	28322400	99.70	31893800	99.70
12592500	102.50	23574200	102.50	27459100	102.50	31347200	102.50
12364100	103.40	25294900	103.40	26076900	103.40	30734800	103.40
13196500	107.10	27176900	107.10	24893400	107.10	30093000	107.10
14901000	107.50	28687900	107.50	24436500	107.50	29423400	107.50
16663700	111.10	29552900	111.10	24646700	111.10	28793900	111.10
17861800	112.50	30000000	112.50	25151600	112.50	28431800	112.50
18564000	115.10	30646800	115.10	25616300	115.10	28339100	115.10
19243600	117.50	32167700	117.50	25836100	117.50	28095100	117.50
20119200	119.30	34875600	119.30	25668300	119.30	27352300	119.30
21016800	122.50	38450400	122.50	24985200	122.50	26244500	122.50
21908200	123.70	42092500	123.70	23829400	123.70	25136700	123.70
23298900	127.50	45011700	127.50	22628300	127.50	24263200	127.50
25837700	128.30	46890000	128.30	22006500	128.30	23709800	128.30
29547300	132.50	48041100	132.50	22223500	132.50	23475000	132.50
33549500	133.00	49143700	133.00	22845700	133.00	23393000	133.00
36673800	137.50	50707300	137.50	23051900	137.50	23143800	137.50
38474600	137.80	52674300	137.80	22383600	137.80	22516800	137.80
39652100	142.50	54451400	142.50	21238100	142.50	21614000	142.50
41380400	142.90	55340900	142.90	20432400	142.90	20643900	142.90
44316000	147.50	55086100	147.50	20255900	147.50	19617800	147.50
48317200	148.10	54112800	148.10	20246300	148.10	18487100	148.10
52807700	152.50	53182200	152.50	19883500	152.50	17445500	152.50
57210600	153.50	52670000	153.50	19137300	153.50	16757300	153.50
61229600	157.50	52211800	157.50	18328500	157.50	16383800	157.50

64804800	159.20	51161600	159.20	17763600	159.20	16086700	159.20
67814700	162.50	49291000	162.50	17571100	162.50	15782900	162.50
70167900	165.00	46937100	165.00	17746800	165.00	15518200	165.00
72272400	167.50	44624200	167.50	18239000	167.50	15234500	167.50
74718300	171.00	42578400	171.00	18922700	171.00	14812100	171.00
77064500	172.50	40438200	172.50	19573900	172.50	14227100	172.50
77755900	177.30	37559300	177.30	20027200	177.30	13508700	177.30
76081000	177.50	33824200	177.50	20290900	177.50	12645700	177.50
73516400	182.50	29936400	182.50	20350600	182.50	11643700	182.50
72050700	183.80	26706400	183.80	19989300	183.80	10648700	183.80
71627100	187.50	24313000	187.50	19010200	187.50	9973790	187.50
70387800	190.50	22450700	190.50	17557100	190.50	9916410	190.50
67288500	192.50	20905100	192.50	16068300	192.50	10448200	192.50
63318800	197.50	19673100	197.50	14922800	197.50	11116700	197.50
59984100	197.50	18658500	197.50	14188600	197.50	11376700	197.50
57600500	202.50	17620300	202.50	13712700	202.50	11048700	202.50
55323200	204.70	16444700	204.70	13331700	204.70	10370700	204.70
52086200	207.50	15205200	207.50	12895200	207.50	9623530	207.50
47422000	212.20	13974500	212.20	12257100	212.20	8880950	212.20
41818100	212.50	12774000	212.50	11407300	212.50	8155020	212.50
36263200	217.50	11622100	217.50	10482600	217.50	7580420	217.50
31493600	220.00	10535200	220.00	9613400	220.00	7366210	220.00
27834700	222.50	9607140	222.50	8920970	222.50	7643010	222.50
25239000	227.50	9048200	227.50	8558370	227.50	8299350	227.50
23099900	228.10	8928650	228.10	8521550	228.10	8912420	228.10
20649800	232.50	8943630	232.50	8539880	232.50	9041700	232.50
17874000	236.40	8635970	236.40	8323590	236.40	8674150	236.40
15510400	237.50	7842200	237.50	7810480	237.50	8133490	237.50
13995300	242.50	6819710	242.50	7120030	242.50	7539100	242.50
12925000	245.10	5964660	245.10	6439070	245.10	6739750	245.10
11725600	247.50	5474160	247.50	5984470	247.50	5811330	247.50
10347500	252.50	5238810	252.50	5860990	252.50	5142720	252.50
9047040	254.10	5004360	254.10	5907570	254.10	4939540	254.10
7933270	257.50	4649350	257.50	5862620	257.50	5035560	257.50
6971080	262.50	4267160	262.50	5646420	262.50	5181500	262.50
6135620	263.40	3971320	263.40	5347390	263.40	5204800	263.40
5460070	267.50	3735730	267.50	5064870	267.50	4983830	267.50
5019570	272.50	3438700	272.50	4868410	272.50	4504350	272.50
4825480	273.00	2996610	273.00	4788800	273.00	3909270	273.00
4759770	277.50	2480200	277.50	4778100	277.50	3424850	277.50
4659740	282.50	2083280	282.50	4694640	282.50	3212510	282.50
4424600	283.00	1933880	283.00	4387480	283.00	3248540	283.00
4056680	287.50	1988920	287.50	3873820	287.50	3368180	287.50
3620220	292.50	2099010	292.50	3347330	292.50	3438370	292.50
3165920	293.40	2114380	293.40	2940450	293.40	3468900	293.40

2751570	297.50	1991510	297.50	2627140	297.50	3557320	297.50
2496260	302.50	1828540	302.50	2375290	302.50	3684760	302.50
2522050	304.10	1736510	304.10	2215030	304.10	3620140	304.10
2838810	307.50	1709280	307.50	2156330	307.50	3193990	307.50
3278740	312.50	1669120	312.50	2146180	312.50	2592790	312.50
3582720	315.30	1584340	315.30	2113790	315.30	2184370	315.30
3635760	317.50	1499140	317.50	2048270	317.50	2132180	317.50
3538680	322.50	1473800	322.50	2002860	322.50	2305320	322.50
3398070	326.80	1539580	326.80	2000730	326.80	2469150	326.80
3211040	327.50	1712990	327.50	2017060	327.50	2486410	327.50
2969190	332.50	1970000	332.50	2054920	332.50	2375740	332.50
2689670	337.50	2180740	337.50	2118790	337.50	2215720	337.50
2369310	338.80	2194740	338.80	2156370	338.80	2043200	338.80
2037120	342.50	2024250	342.50	2138590	342.50	1866630	342.50
1758260	347.50	1810950	347.50	2097410	347.50	1699770	347.50
1504010	351.20	1625310	351.20	2016510	351.20	1556520	351.20
1160850	352.50	1460060	352.50	1836280	352.50	1488840	352.50
727837	357.50	1366890	357.50	1594320	357.50	1582140	357.50
368661	362.50	1406130	362.50	1402540	362.50	1799890	362.50
238045	364.10	1502960	364.10	1298280	364.10	1933780	364.10
345028	367.50	1511850	367.50	1243430	367.50	1836180	367.50
572290	372.50	1386950	372.50	1212670	372.50	1582920	372.50
781869	377.40	1203990	377.40	1188500	377.40	1329370	377.40
929511	377.50	1079730	377.50	1136630	377.50	1156130	377.50
1070280	382.50	1101270	382.50	1040290	382.50	1084320	382.50
1227860	387.50	1239130	387.50	912985	387.50	1084750	387.50
1333530	391.20	1329590	391.20	787629	391.20	1075460	391.20
1345590	392.50	1237520	392.50	733048	392.50	1025150	392.50
1321170	397.50	1006680	397.50	818292	397.50	1007290	397.50
1292910	402.50	773348	402.50	1003350	402.50	1076050	402.50
1188570	405.60	601483	405.60	1142950	405.60	1180800	405.60
962586	407.50	485629	407.50	1158540	407.50	1261230	407.50
703495	412.50	440290	412.50	1117590	412.50	1318830	412.50
526473	417.50	491086	417.50	1087760	417.50	1343230	417.50
447864	420.40	620333	420.40	1025530	420.40	1276130	420.40
427280	422.50	789932	422.50	880512	422.50	1107750	422.50
444062	427.50	979691	427.50	701426	427.50	923521	427.50
473696	432.50	1149250	432.50	559719	432.50	800714	432.50
462088	435.80	1212710	435.80	456578	435.80	730503	435.80
383935	437.50	1122010	437.50	374730	437.50	690314	437.50
288203	442.50	939048	442.50	345636	442.50	711153	442.50
241440	447.50	759494	447.50	394133	447.50	800312	447.50
252217	451.80	603747	451.80	465340	451.80	863487	451.80
292615	452.50	441881	452.50	472201	452.50	794177	452.50
369951	457.50	281372	457.50	398393	457.50	610960	457.50

514722	462.50	168696	462.50	310150	462.50	432957	462.50
690820	467.50	126528	467.50	276786	467.50	334532	467.50
783545	468.30	130839	468.30	316517	468.30	284005	468.30
719480	472.50	144671	472.50	410414	472.50	220248	472.50
551943	477.50	149887	477.50	519202	477.50	134324	477.50
383594	482.50	142404	482.50	576652	482.50	60008	482.50
254761	485.50	119955	485.50	522229	485.50	23784	485.50
152100	487.50	92289	487.50	375580	487.50	32947	487.50
71757	492.50	87977	492.50	241725	492.50	89377	492.50
23633	497.50	129690	497.50	208877	497.50	178483	497.50
4727	502.50	208359	502.50	263070	502.50	253014	502.50
430	503.30	298364	503.30	323403	503.30	269776	503.30
0	507.50	392908	507.50	338784	507.50	247688	507.50
0	512.50	497438	512.50	322223	512.50	248579	512.50
0	517.50	582481	517.50	300217	517.50	292387	517.50
0	521.70	582274	521.70	270404	521.70	332620	521.70
0	522.50	468009	522.50	229472	522.50	325270	522.50
0	527.50	293191	527.50	208649	527.50	287674	527.50
0	532.50	141495	532.50	239160	532.50	277131	532.50
0	537.50	56008	537.50	294514	537.50	323078	537.50
430	540.80	35142	540.80	309657	540.80	387683	540.80
4727	542.50	66198	542.50	258330	542.50	403678	542.50
23633	547.50	138746	547.50	179088	547.50	348361	547.50
70898	552.50	235558	552.50	125392	552.50	258715	552.50
141797	557.50	323081	557.50	114041	557.50	178481	557.50
198516	560.70	358007	560.70	120903	560.70	119013	560.70
198516	562.50	318111	562.50	114042	562.50	72225	562.50
141797	567.50	230597	567.50	88962	567.50	35437	567.50
70898	572.50	153736	572.50	67668	572.50	12443	572.50
23633	577.50	123582	577.50	65539	577.50	2705	577.50
5156	581.20	128345	581.20	77604	581.20	271	581.20
5585	582.50	134694	582.50	100077	582.50	0	582.50
28350	587.50	124944	587.50	139580	587.50	0	587.50
94487	592.50	104762	592.50	190908	592.50	0	592.50
212578	597.50	87529	597.50	228040	597.50	0	597.50
340107	602.50	79592	602.50	227325	602.50	0	602.50
397215	602.50	78231	602.50	186635	602.50	271	602.50
344834	607.50	81632	607.50	123003	607.50	2705	607.50
236211	612.50	95687	612.50	61738	612.50	12173	612.50
165386	617.50	124022	617.50	21762	617.50	32731	617.50
170146	622.50	155304	622.50	4731	622.50	59512	622.50
203671	624.60	168905	624.60	473	624.60	80341	624.60
198945	627.50	153037	627.50	0	627.50	89268	627.50
141797	632.50	113818	632.50	0	632.50	89268	632.50
70898	637.50	68249	637.50	0	637.50	80611	637.50

23633	642.50	31745	642.50	0	642.50	62217	642.50
5156	647.40	10658	647.40	0	647.40	44904	647.40
5156	647.50	2494	647.50	0	647.50	45174	647.50
23633	652.50	2721	652.50	0	652.50	64912	652.50
70898	657.50	12472	657.50	0	657.50	93011	657.50
141797	662.50	37415	662.50	0	662.50	124316	662.50
198945	667.50	74830	667.50	0	667.50	158042	667.50
202813	671.20	104762	671.20	0	671.20	180724	671.20
161563	672.50	104762	672.50	0	672.50	173190	672.50
126758	677.50	74830	677.50	0	677.50	136219	677.50
133203	682.50	37415	682.50	0	682.50	95986	682.50
164570	687.50	12472	687.50	0	687.50	82495	687.50
180898	692.50	2494	692.50	0	692.50	101980	692.50
159844	695.70	227	695.70	0	695.70	127680	695.70
109570	697.50	0	697.50	237	697.50	125245	697.50
55859	702.50	0	702.50	2366	702.50	89268	702.50
19766	707.50	0	707.50	10647	707.50	44634	707.50
4297	712.50	0	712.50	28629	712.50	14878	712.50
430	717.50	0	717.50	52052	717.50	2976	717.50
0	721.20	0	721.20	70271	721.20	271	721.20
0	722.50	0	722.50	78079	722.50	0	722.50
0	727.50	0	727.50	78079	727.50	0	727.50
0	732.50	0	732.50	70271	732.50	0	732.50
0	737.50	0	737.50	52052	737.50	0	737.50
0	742.50	0	742.50	28629	742.50	0	742.50
0	747.50	0	747.50	10647	747.50	0	747.50
0	747.60	0	747.60	2366	747.60	0	747.60
0	752.50	227	752.50	473	752.50	0	752.50
0	757.50	2494	757.50	2366	757.50	0	757.50
0	762.50	12472	762.50	10884	762.50	0	762.50
0	767.50	37415	767.50	30758	767.50	0	767.50
0	772.50	74830	772.50	60333	772.50	0	772.50
0	775.00	104762	775.00	88016	775.00	0	775.00
0	777.50	104762	777.50	99373	777.50	0	777.50
0	782.50	74830	782.50	88016	782.50	0	782.50
0	787.50	37415	787.50	60333	787.50	0	787.50
0	792.50	12472	792.50	30758	792.50	0	792.50
0	797.50	2494	797.50	10884	797.50	0	797.50
0	802.50	227	802.50	2366	802.50	0	802.50
0	803.40	0	803.40	237	803.40	0	803.40
0	807.50	0	807.50	0	807.50	0	807.50
0	812.50	0	812.50	0	812.50	0	812.50
0	817.50	0	817.50	0	817.50	0	817.50
0	822.50	0	822.50	0	822.50	0	822.50
0	827.50	0	827.50	0	827.50	0	827.50

0	832.50	0	832.50	0	832.50	0	832.50
0	832.90	0	832.90	0	832.90	0	832.90
0	837.50	0	837.50	0	837.50	0	837.50
0	842.50	0	842.50	0	842.50	0	842.50
0	847.50	0	847.50	0	847.50	0	847.50
0	852.50	0	852.50	0	852.50	0	852.50
0	857.50	0	857.50	0	857.50	0	857.50
0	862.50	0	862.50	0	862.50	0	862.50
0	863.40	0	863.40	0	863.40	0	863.40
0	867.50	0	867.50	0	867.50	0	867.50
0	872.50	0	872.50	0	872.50	0	872.50
0	877.50	0	877.50	0	877.50	0	877.50
0	882.50	0	882.50	0	882.50	0	882.50
0	887.50	0	887.50	0	887.50	0	887.50
0	892.50	0	892.50	0	892.50	0	892.50
0	895.00	0	895.00	0	895.00	0	895.00
0	897.50	0	897.50	0	897.50	0	897.50
0	902.50	0	902.50	0	902.50	0	902.50
0	907.50	0	907.50	0	907.50	0	907.50
0	912.50	0	912.50	0	912.50	0	912.50
0	917.50	0	917.50	0	917.50	0	917.50
0	922.50	0	922.50	0	922.50	0	922.50
0	927.50	0	927.50	0	927.50	0	927.50
0	927.80	0	927.80	0	927.80	0	927.80
0	932.50	0	932.50	0	932.50	0	932.50
0	937.50	0	937.50	0	937.50	0	937.50
0	942.50	0	942.50	0	942.50	0	942.50
0	947.50	0	947.50	0	947.50	0	947.50
0	952.50	0	952.50	0	952.50	0	952.50
0	957.50	0	957.50	0	957.50	0	957.50
0	961.80	0	961.80	0	961.80	0	961.80
0	962.50	0	962.50	0	962.50	0	962.50
0	967.50	0	967.50	0	967.50	0	967.50
0	972.50	0	972.50	0	972.50	0	972.50
0	977.50	0	977.50	0	977.50	0	977.50
0	982.50	0	982.50	0	982.50	0	982.50
0	987.50	0	987.50	0	987.50	0	987.50
0	992.50	0	992.50	0	992.50	0	992.50
0	997.00	0	997.00	0	997.00	0	997.00
0	997.50	0	997.50	0	997.50	0	997.50

The data displayed in Figures 2e-2i were computed and created by the manufacturer's proprietary program using the raw particle counting data. They were printed in summary reports by the program without numerical table of data display.



**Table of supporting data for Figure S2a**

Applied Voltage (kV)	Current (A)	Operation Time ( $\mu$ s)
-5.36804	-0.00503856	-119.834
-5.34897	-0.00502941	-119.734
-5.35888	-0.00480663	-119.635
-5.36346	-0.00474865	-119.536
-5.35965	-0.00435497	-119.437
-5.37872	-0.00783702	-119.338
-5.3894	-0.00467235	-119.238
-5.36575	-0.00411693	-119.139
-5.38864	-0.00381786	-119.04
-5.38864	-0.00598766	-118.941
-5.37796	-0.00332958	-118.842
-5.39016	-0.00335704	-118.742
-5.39398	-0.00315868	-118.643
-5.37796	-0.00289318	-118.544
-5.38788	-0.00265514	-118.445
-5.37872	-0.00247814	-118.346
-5.36956	-0.00225536	-118.246
-5.37262	-0.00213634	-118.147
-5.3833	-0.00193492	-118.048
-5.38177	-0.00177013	-117.949
-5.37872	-0.00155956	-117.85
-5.36728	-0.00469066	-117.75
-5.36422	-0.00150768	-117.651
-5.36728	-0.00126659	-117.552
-5.35202	-0.00113231	-117.453
-5.34286	-0.00092174	-117.354
-5.34362	-0.00082103	-117.254
-5.3482	-0.00075084	-117.155
-5.33905	-0.00061351	-117.056
-5.33752	-0.00046398	-116.957
-5.34057	-0.00032665	-116.858
-5.32684	-0.0002412	-116.758
-5.31845	-5.81E-05	-116.659
-5.30853	0.00012196	-116.56
-5.307	0.00021962	-116.461
-5.29174	0.00038746	-116.362
-5.29251	0.00058583	-116.262
-5.29709	0.00065907	-116.163
-5.27038	0.00073842	-116.064
-5.28412	0.00086049	-115.965
-5.27115	0.00100392	-115.866

-5.25131	0.00112294	-115.766
-5.24673	0.0012389	-115.667
-5.25207	0.00135792	-115.568
-5.233	0.0014861	-115.469
-5.22232	0.00155934	-115.37
-5.20935	0.00173024	-115.27
-5.20401	0.0017516	-115.171
-5.20019	0.00186146	-115.072
-5.20172	0.00207509	-114.973
-5.18417	0.00209034	-114.874
-5.17654	0.00222767	-114.774
-5.15518	0.0023528	-114.675
-5.15442	0.00253895	-114.576
-5.13992	0.00268239	-114.477
-5.12466	0.00270985	-114.378
-5.13611	0.0027892	-114.278
-5.11932	0.00292347	-114.179
-5.0972	0.00303639	-114.08
-5.07812	0.00308827	-113.981
-5.08117	0.00341481	-113.882
-5.06363	0.00335988	-113.782
-5.05523	0.00362233	-113.683
-5.0476	0.00371388	-113.584
-5.03387	0.00360402	-113.485
-5.02166	0.00398243	-113.386
-5.01556	0.00404347	-113.286
-5.01098	0.0040099	-113.187
-4.98275	0.00438832	-113.088
-4.98123	0.00429371	-112.989
-4.95987	0.00448597	-112.89
-4.96139	0.00454396	-112.79
-4.92859	0.00458363	-112.691
-4.93622	0.0048766	-112.592
-4.9057	0.0048705	-112.493
-4.89731	0.00492543	-112.394
-4.88434	0.00509022	-112.294
-4.87289	0.00520619	-112.195
-4.85611	0.00535267	-112.096
-4.83627	0.00517262	-111.997
-4.83017	0.00592335	-111.898
-4.80728	0.0054076	-111.798
-4.80041	0.00587452	-111.699
-4.77218	0.00573414	-111.6
-4.77447	0.00603627	-111.501

-4.75845	0.00595997	-111.402
-4.72793	0.0062743	-111.302
-4.72259	0.0062621	-111.203
-4.71573	0.00634449	-111.104
-4.68368	0.00653065	-111.005
-4.67224	0.00661	-110.906
-4.66766	0.00680531	-110.806
-4.65469	0.00685109	-110.707
-4.62799	0.00699147	-110.608
-4.60739	0.00699452	-110.509
-4.58984	0.00723866	-110.41
-4.58679	0.00740956	-110.31
-4.56237	0.00732106	-110.211
-4.53796	0.00760182	-110.112
-4.52499	0.00762318	-110.013
-4.51812	0.00786732	-109.914
-4.49447	0.00796498	-109.814
-4.47998	0.00795277	-109.715
-4.44946	0.0081786	-109.616
-4.43191	0.00811146	-109.517
-4.41665	0.00831898	-109.418
-4.40063	0.00830372	-109.318
-4.37622	0.0085326	-109.219
-4.3808	0.00858143	-109.12
-4.3457	0.00867909	-109.021
-4.32892	0.008792	-108.922
-4.29001	0.00889576	-108.822
-4.29153	0.00897206	-108.723
-4.26101	0.00908497	-108.624
-4.23736	0.00912465	-108.525
-4.22287	0.00936879	-108.426
-4.18396	0.00942372	-108.326
-4.19235	0.009558	-108.227
-4.15878	0.00964955	-108.128
-4.142	0.00972584	-108.029
-4.10537	0.00985096	-107.93
-4.08859	0.00987843	-107.83
-4.0596	0.0100859	-107.731
-4.05273	0.01015	-107.632
-4.01306	0.0102691	-107.533
-3.99398	0.0103698	-107.434
-3.97567	0.010504	-107.334
-3.96194	0.0105681	-107.235
-3.92532	0.0107451	-107.136

-3.91922	0.0108336	-107.037
-3.87726	0.0108916	-106.938
-3.87268	0.0109435	-106.838
-3.82995	0.0111235	-106.739
-3.80859	0.0111083	-106.64
-3.79257	0.0112243	-106.541
-3.78189	0.0113463	-106.442
-3.76281	0.0114379	-106.342
-3.72543	0.0114562	-106.243
-3.71246	0.0115477	-106.144
-3.68194	0.0116484	-106.045
-3.64837	0.0117705	-105.946
-3.64151	0.0117949	-105.846
-3.59802	0.0119292	-105.747
-3.57742	0.0121398	-105.648
-3.54614	0.0121734	-105.549
-3.53241	0.0122252	-105.45
-3.50799	0.0123259	-105.35
-3.479	0.0123412	-105.251
-3.4584	0.0124816	-105.152
-3.41568	0.0125548	-105.053
-3.40118	0.0126799	-104.954
-3.376	0.0127807	-104.854
-3.33481	0.0129119	-104.755
-3.31573	0.0130248	-104.656
-3.28216	0.0130278	-104.557
-3.25012	0.0131591	-104.458
-3.22113	0.0133941	-104.358
-3.20663	0.0132171	-104.259
-3.18069	0.0135222	-104.16
-3.15017	0.0134612	-104.061
-3.12576	0.0134185	-103.962
-3.10058	0.0136931	-103.862
-3.09524	0.0135985	-103.763
-3.06549	0.013803	-103.664
-3.02429	0.013983	-103.565
-2.99148	0.0138213	-103.466
-2.95944	0.0140899	-103.366
-2.93426	0.0141753	-103.267
-2.92663	0.0141997	-103.168
-2.89535	0.0142485	-103.069
-2.86789	0.0142913	-102.97
-2.83203	0.0145629	-102.87
-2.78778	0.0141509	-102.771

-2.78473	0.0148925	-102.672
-2.73971	0.0144988	-102.573
-2.71225	0.0149993	-102.474
-2.70462	0.0146056	-102.374
-2.66037	0.0150237	-102.275
-2.62451	0.0148314	-102.176
-2.6123	0.0150115	-102.077
-2.57797	0.015042	-101.978
-2.55203	0.0151885	-101.878
-2.51999	0.0152984	-101.779
-2.49176	0.0153441	-101.68
-2.44674	0.0154052	-101.581
-2.42538	0.0153502	-101.482
-2.41012	0.0156127	-101.382
-2.35443	0.015808	-101.283
-2.33307	0.0157409	-101.184
-2.2911	0.015808	-101.085
-2.2705	0.0157622	-100.986
-2.23846	0.0160064	-100.886
-2.21252	0.0157958	-100.787
-2.18429	0.0160277	-100.688
-2.15377	0.0159942	-100.589
-2.12555	0.0160918	-100.49
-2.09045	0.0160216	-100.39
-2.06451	0.0162139	-100.291
-2.02484	0.0162444	-100.192
-1.99432	0.0163695	-100.093
-1.96151	0.0163482	-99.9936
-1.93405	0.0165435	-99.8944
-1.90353	0.0165526	-99.7952
-1.88369	0.0165862	-99.696
-1.83563	0.0166594	-99.5968
-1.81656	0.0166655	-99.4976
-1.77688	0.0167449	-99.3984
-1.74865	0.0167083	-99.2992
-1.7334	0.0168334	-99.2
-1.68838	0.0167968	-99.1008
-1.6571	0.0169066	-99.0016
-1.62582	0.0168486	-98.9024
-1.60141	0.0168975	-98.8032
-1.55487	0.0169616	-98.704
-1.52511	0.0170623	-98.6048
-1.50757	0.0170256	-98.5056
-1.46637	0.017105	-98.4064

-1.43966	0.017166	-98.3072
-1.40762	0.017221	-98.208
-1.38397	0.0172088	-98.1088
-1.34582	0.0172881	-98.0096
-1.31302	0.0172881	-97.9104
-1.268	0.0172759	-97.8112
-1.24664	0.0173034	-97.712
-1.22375	0.0171508	-97.6128
-1.20468	0.017282	-97.5136
-1.17035	0.0172179	-97.4144
-1.12381	0.0172942	-97.3152
-1.10092	0.0172576	-97.216
-1.06506	0.0173613	-97.1168
-1.0292	0.017401	-97.0176
-0.993344	0.0174193	-96.9184
-0.978848	0.0175048	-96.8192
-0.946042	0.017462	-96.72
-0.91171	0.0175383	-96.6208
-0.889584	0.0176055	-96.5216
-0.83923	0.0175322	-96.4224
-0.802609	0.0189696	-96.3232
-0.775143	0.0179625	-96.224
-0.7431	0.0177825	-96.1248
-0.70419	0.0178313	-96.0256
-0.685117	0.0179534	-95.9264
-0.637814	0.0180144	-95.8272
-0.602719	0.017987	-95.728
-0.577542	0.0179137	-95.6288
-0.559995	0.0179778	-95.5296
-0.518796	0.0180541	-95.4304
-0.503537	0.0180663	-95.3312
-0.453183	0.0181609	-95.232
-0.421902	0.0181517	-95.1328
-0.386044	0.018228	-95.0336
-0.365445	0.0183501	-94.9344
-0.338742	0.0182647	-94.8352
-0.313565	0.0183562	-94.736
-0.277707	0.0184203	-94.6368
-0.220486	0.0182921	-94.5376
-0.205991	0.0184661	-94.4384
-0.1564	0.01846	-94.3392
-0.128934	0.0183989	-94.24
-0.10452	0.0185851	-94.1408
-0.0701874	0.0186461	-94.0416

-0.037381	0.0186278	-93.9424
-0.00991516	0.019049	-93.8432
0.0251801	0.0181395	-93.744
0.0610382	0.0191497	-93.6448
0.0968964	0.0186919	-93.5456
0.131992	0.018698	-93.4464
0.156406	0.0200957	-93.3472
0.209048	0.019171	-93.248
0.218204	0.0189086	-93.1488
0.246432	0.0189605	-93.0496
0.28992	0.018936	-92.9504
0.313571	0.0189696	-92.8512
0.344089	0.0189422	-92.752
0.38605	0.0189879	-92.6528
0.424197	0.018994	-92.5536
0.454715	0.0190551	-92.4544
0.479892	0.0188323	-92.3552
0.516513	0.0191375	-92.256
0.550082	0.0191039	-92.1568
0.5806	0.0189971	-92.0576
0.620273	0.0189849	-91.9584
0.662997	0.0201842	-91.8592
0.690463	0.0198241	-91.76
0.718692	0.0193145	-91.6608
0.751498	0.0191619	-91.5616
0.782016	0.0192046	-91.4624
0.824741	0.019049	-91.3632
0.842288	0.0190978	-91.264
0.891116	0.0199157	-91.1648
0.920108	0.0191893	-91.0656
0.95444	0.0197875	-90.9664
0.986484	0.0196074	-90.8672
1.00632	0.0193938	-90.768
1.05744	0.0192656	-90.6688
1.08338	0.0191954	-90.5696
1.10855	0.0192046	-90.4704
1.15357	0.0191619	-90.3712
1.17569	0.0193084	-90.272
1.22986	0.0393828	-90.1728
1.24817	0.0149993	-90.0736
1.25962	0.0193938	-89.9744
1.31531	0.0196654	-89.8752
1.34049	0.0197142	-89.776
1.38092	0.0199187	-89.6768

1.39771	0.0200072	-89.5776
1.43204	0.0230773	-89.4784
1.46866	0.0225585	-89.3792
1.50223	0.0201812	-89.28
1.51444	0.0198119	-89.1808
1.55487	0.0197204	-89.0816
1.58081	0.0197081	-88.9824
1.60446	0.0196471	-88.8832
1.64414	0.019464	-88.784
1.67618	0.0193969	-88.6848
1.71204	0.019348	-88.5856
1.74408	0.0192687	-88.4864
1.79673	0.0233794	-88.3872
1.80741	0.0286406	-88.288
1.84937	0.0217162	-88.1888
1.87912	0.0196776	-88.0896
1.89743	0.0197905	-87.9904
1.91422	0.0197142	-87.8912
1.95008	0.0197997	-87.792
1.99967	0.0198485	-87.6928
2.01798	0.020349	-87.5936
2.0401	0.0198943	-87.4944
2.09275	0.0194915	-87.3952
2.12632	0.0193511	-87.296
2.15302	0.020996	-87.1968
2.16828	0.0194671	-87.0976
2.21711	0.019229	-86.9984
2.2461	0.0193694	-86.8992
2.2789	0.0193419	-86.8
2.30484	0.0200133	-86.7008
2.34223	0.0190825	-86.6016
2.37656	0.0191192	-86.5024
2.40555	0.0189055	-86.4032
2.4292	0.0188598	-86.304
2.45133	0.0360228	-86.2048
2.4849	0.0188842	-86.1056
2.51007	0.019818	-86.0064
2.53907	0.0196532	-85.9072
2.56195	0.0193816	-85.808
2.57645	0.0199492	-85.7088
2.61078	0.0197417	-85.6096
2.63672	0.0197936	-85.5104
2.66648	0.0200408	-85.4112
2.69089	0.0194213	-85.312



2.72599	0.0194213	-85.2128
2.75421	0.0188445	-85.1136
2.78931	0.0188475	-85.0144
2.81449	0.0188048	-84.9152
2.84653	0.0182708	-84.816
2.88086	0.0191893	-84.7168
2.90528	0.0181182	-84.6176
2.94419	0.0186644	-84.5184
2.97699	0.0186126	-84.4192
2.99759	0.0182341	-84.32
3.02353	0.0181853	-84.2208
3.04947	0.0181304	-84.1216
3.0838	0.0180846	-84.0224
3.10364	0.0180266	-83.9232
3.14102	0.0208098	-83.824
3.15247	0.0364318	-83.7248
3.17841	0.0193969	-83.6256
3.21122	0.0197661	-83.5264
3.23181	0.0189605	-83.4272
3.25775	0.0190459	-83.328
3.27454	0.0196318	-83.2288
3.28446	0.0187224	-83.1296
3.32184	0.0184844	-83.0304
3.3577	0.0187255	-82.9312
3.37448	0.0179961	-82.832
3.40271	0.0181212	-82.7328
3.4317	0.0182128	-82.6336
3.45612	0.0175994	-82.5344
3.48587	0.0176818	-82.4352
3.51639	0.0176146	-82.336
3.54538	0.0172484	-82.2368
3.56598	0.0172545	-82.1376
3.58811	0.0169585	-82.0384
3.60871	0.0169982	-81.9392
3.6438	0.0170195	-81.84
3.67813	0.0170653	-81.7408
3.69263	0.0167754	-81.6416
3.72238	0.0168822	-81.5424
3.73688	0.0167907	-81.4432
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3.80783	0.0167785	-81.1456
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3.85895	0.0165831	-80.9472

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4.12369	0.0163268	-79.7568
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4.32282	0.0189238	-78.864
4.32968	0.0151336	-78.7648
4.33655	0.014923	-78.6656
4.37775	0.0147277	-78.5664
4.38614	0.0146209	-78.4672
4.41284	0.0147582	-78.368
4.43726	0.0144072	-78.2688
4.44565	0.0143523	-78.1696
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-1.72882	-0.0186219	-38.2912
-1.7601	-0.0186463	-38.192
-1.77765	-0.0185914	-38.0928
-1.81884	-0.0185304	-37.9936
-1.83868	-0.0185762	-37.8944
-1.86844	-0.0186769	-37.7952
-1.89972	-0.0184907	-37.696
-1.91726	-0.0186616	-37.5968
-1.96533	-0.0184877	-37.4976
-2.01721	-0.0185243	-37.3984
-2.03018	-0.0185334	-37.2992

-2.07214	-0.0184541	-37.2
-2.09121	-0.0184999	-37.1008
-2.12402	-0.0183442	-37.0016
-2.16369	-0.0182862	-36.9024
-2.1904	-0.0183747	-36.8032
-2.21328	-0.0182588	-36.704
-2.25143	-0.0182344	-36.6048
-2.28271	-0.0181855	-36.5056
-2.30407	-0.0182038	-36.4064
-2.31857	-0.0182038	-36.3072
-2.38189	-0.0181214	-36.208
-2.39334	-0.0180818	-36.1088
-2.42004	-0.0179597	-36.0096
-2.45666	-0.0179811	-35.9104
-2.48489	-0.0179902	-35.8112
-2.51083	-0.0178865	-35.712
-2.55737	-0.0178376	-35.6128
-2.56576	-0.0177278	-35.5136
-2.60086	-0.0177827	-35.4144
-2.6268	-0.0177217	-35.3152
-2.66418	-0.0176454	-35.216
-2.69775	-0.0205232	-35.1168
-2.72369	-0.0204408	-35.0176
-2.75192	-0.018152	-34.9184
-2.7771	-0.0181001	-34.8192
-2.79922	-0.0179292	-34.72
-2.81295	-0.0181672	-34.6208
-2.85949	-0.0181337	-34.5216
-2.88543	-0.0223451	-34.4224
-2.90603	-0.0192811	-34.3232
-2.94265	-0.0216828	-34.224
-2.96707	-0.0202241	-34.1248
-2.98767	-0.0181581	-34.0256
-3.00445	-0.0179841	-33.9264
-3.02887	-0.0177858	-33.8272
-3.05481	-0.0179048	-33.728
-3.09524	-0.0177613	-33.6288
-3.11584	-0.0175874	-33.5296
-3.14407	-0.017917	-33.4304
-3.17306	-0.0175874	-33.3312
-3.20053	-0.0174104	-33.232
-3.23257	-0.0171296	-33.1328
-3.26385	-0.017151	-33.0336
-3.27682	-0.0169862	-32.9344

-3.30658	-0.0168611	-32.8352
-3.34015	-0.0168214	-32.736
-3.36303	-0.0184327	-32.6368
-3.37677	-0.0169435	-32.5376
-3.40423	-0.0167268	-32.4384
-3.44925	-0.0166444	-32.3392
-3.47366	-0.0165834	-32.24
-3.48892	-0.0164949	-32.1408
-3.54232	-0.0164399	-32.0416
-3.53546	-0.0163484	-31.9424
-3.56979	-0.016269	-31.8432
-3.58276	-0.0161622	-31.744
-3.61786	-0.0226136	-31.6448
-3.64761	-0.0169282	-31.5456
-3.66592	-0.0163758	-31.4464
-3.68576	-0.0162477	-31.3472
-3.7178	-0.0160371	-31.248
-3.73687	-0.0159852	-31.1488
-3.759	-0.0204591	-31.0496
-3.77731	-0.0197541	-30.9504
-3.80249	-0.0169068	-30.8512
-3.82614	-0.0159181	-30.752
-3.84369	-0.015915	-30.6528
-3.87191	-0.0157197	-30.5536
-3.89099	-0.0157685	-30.4544
-3.91006	-0.0156526	-30.3552
-3.94592	-0.0154725	-30.256
-3.96347	-0.0153352	-30.1568
-3.9833	-0.0160127	-30.0576
-4.01077	-0.0155091	-29.9584
-4.03518	-0.0148957	-29.8592
-4.05578	-0.0146424	-29.76
-4.06265	-0.0146058	-29.6608
-4.10461	-0.0164491	-29.5616
-4.1275	-0.0155824	-29.4624
-4.14734	-0.0145661	-29.3632
-4.1687	-0.0143647	-29.264
-4.18167	-0.0141969	-29.1648
-4.20608	-0.0143006	-29.0656
-4.24194	-0.014145	-28.9664
-4.23507	-0.0140626	-28.8672
-4.27017	-0.0138093	-28.768
-4.28238	-0.0138032	-28.6688
-4.30832	-0.0135224	-28.5696

-4.33654	-0.0136018	-28.4704
-4.35333	-0.0134004	-28.3712
-4.36477	-0.0133821	-28.272
-4.39224	-0.0134248	-28.1728
-4.41284	-0.013202	-28.0736
-4.41818	-0.0130189	-27.9744
-4.44946	-0.0130799	-27.8752
-4.45633	-0.0128297	-27.776
-4.47616	-0.0127992	-27.6768
-4.48608	-0.0128022	-27.5776
-4.50515	-0.0126069	-27.4784
-4.52652	-0.0125245	-27.3792
-4.54483	-0.012494	-27.28
-4.57229	-0.0124452	-27.1808
-4.58374	-0.0122438	-27.0816
-4.58831	-0.0122255	-26.9824
-4.60205	-0.0121522	-26.8832
-4.63104	-0.0120729	-26.784
-4.65316	-0.0131044	-26.6848
-4.66156	-0.0119447	-26.5856
-4.68216	-0.0119905	-26.4864
-4.70123	-0.0118531	-26.3872
-4.71954	-0.0117067	-26.288
-4.70962	-0.0116456	-26.1888
-4.74014	-0.011612	-26.0896
-4.74472	-0.0114137	-25.9904
-4.77752	-0.0113588	-25.8912
-4.79507	-0.0112428	-25.792
-4.79889	-0.0110994	-25.6928
-4.8172	-0.0111085	-25.5936
-4.82483	-0.0142182	-25.4944
-4.85534	-0.0135926	-25.3952
-4.85305	-0.0130738	-25.296
-4.88891	-0.0108674	-25.1968
-4.88739	-0.0108369	-25.0976
-4.89273	-0.0107515	-24.9984
-4.90875	-0.0107667	-24.8992
-4.93393	-0.0106416	-24.8
-4.93011	-0.010373	-24.7008
-4.94461	-0.0103089	-24.6016
-4.97665	-0.0102662	-24.5024
-4.99038	-0.0101014	-24.4032
-5.00488	-0.00994274	-24.304
-5.00412	-0.00990917	-24.2048

-5.01785	-0.00965892	-24.1056
-5.02853	-0.00958568	-24.0064
-5.03616	-0.00942394	-23.9072
-5.04989	-0.00924388	-23.808
-5.06744	-0.00914318	-23.7088
-5.06744	-0.0091035	-23.6096
-5.07354	-0.00901805	-23.5104
-5.07049	-0.00552684	-23.4112
-5.04303	-0.00291149	-23.312
-5.07049	-0.0212648	-23.2128
-5.07202	-0.013788	-23.1136
-5.03311	-0.0128572	-23.0144
-5.03235	-0.0181642	-22.9152
-5.00183	-0.0152619	-22.816
-5.0148	-0.0178529	-22.7168
-5.00717	-0.0138612	-22.6176
-5.01861	-0.0137269	-22.5184
-5.04074	-0.013437	-22.4192
-5.05752	-0.0122895	-22.32
-5.0827	-0.0115907	-22.2208
-5.09338	-0.010663	-22.1216
-5.10025	-0.0102143	-22.0224
-5.12771	-0.00945446	-21.9232
-5.13305	-0.0113008	-21.824
-5.14068	-0.0103669	-21.7248
-5.16357	-0.00881053	-21.6256
-5.1712	-0.00873424	-21.5264
-5.17807	-0.0084901	-21.4272
-5.18341	-0.00847484	-21.328
-5.20782	-0.00846874	-21.2288
-5.20248	-0.00842906	-21.1296
-5.20553	-0.0106141	-21.0304
-5.23224	-0.00950328	-20.9312
-5.22918	-0.00826427	-20.832
-5.23681	-0.00779125	-20.7328
-5.24521	-0.00784618	-20.6336
-5.25741	-0.00910961	-20.5344
-5.26428	-0.00754711	-20.4352
-5.26046	-0.00717479	-20.336
-5.26962	-0.00702526	-20.2368
-5.27649	-0.00680858	-20.1376
-5.28259	-0.00668651	-20.0384
-5.28564	-0.00647594	-19.9392
-5.29327	-0.00632946	-19.84

-5.30471	-0.00615245	-19.7408
-5.31997	-0.00601512	-19.6416
-5.32379	-0.00591136	-19.5424
-5.32379	-0.00580455	-19.4432
-5.33065	-0.00558788	-19.344
-5.31768	-0.0052766	-19.2448
-5.32608	-0.00523693	-19.1456
-5.336	-0.00616771	-19.0464
-5.34744	-0.00502635	-18.9472
-5.34973	-0.00490428	-18.848
-5.34744	-0.00463268	-18.7488
-5.33294	-0.00443126	-18.6496
-5.34668	-0.00430614	-18.5504
-5.34973	-0.00400707	-18.4512
-5.35583	-0.00393077	-18.352
-5.35431	-0.00364391	-18.2528
-5.35659	-0.00337535	-18.1536
-5.35965	-0.00324108	-18.0544
-5.36041	-0.00289623	-17.9552
-5.35507	-0.00271007	-17.856
-5.35049	-0.00238353	-17.7568
-5.36041	-0.00403148	-17.6576



**Table of supporting data for Figure S2b**

<b>Applied Voltage (kV)</b>	<b>Charge (nC)</b>
-5.36804	-255.769
-5.34897	-253.098
-5.35888	-254.777
-5.36346	-255.311
-5.35965	-254.777
-5.37872	-257.752
-5.3894	-255.692
-5.36575	-255.082
-5.38864	-255.54
-5.38864	-258.897
-5.37796	-254.853
-5.39016	-257.829
-5.39398	-256.837
-5.37796	-256.226
-5.38788	-258.134
-5.37872	-257.905
-5.36956	-257.524
-5.37262	-258.21
-5.3833	-258.439
-5.38177	-257.218
-5.37872	-256.837
-5.36728	-257.981
-5.36422	-259.202
-5.36728	-257.371
-5.35202	-257.676
-5.34286	-257.829
-5.34362	-256.837
-5.3482	-256.532
-5.33905	-260.423
-5.33752	-257.447
-5.34057	-257.752
-5.32684	-256.837
-5.31845	-259.431
-5.30853	-256.532
-5.307	-258.744
-5.29174	-255.158
-5.29251	-256.074
-5.29709	-257.524
-5.27038	-255.845
-5.28412	-257.524
-5.27115	-255.311

-5.25131	-253.785
-5.24673	-255.235
-5.25207	-255.082
-5.233	-255.769
-5.22232	-255.082
-5.20935	-254.243
-5.20401	-252.87
-5.20019	-253.556
-5.20172	-252.87
-5.18417	-255.082
-5.17654	-253.633
-5.15518	-253.633
-5.15442	-252.336
-5.13992	-251.496
-5.12466	-252.564
-5.13611	-251.267
-5.11932	-251.191
-5.0972	-251.267
-5.07812	-251.878
-5.08117	-249.665
-5.06363	-249.894
-5.05523	-249.742
-5.0476	-248.597
-5.03387	-248.597
-5.02166	-249.131
-5.01556	-248.597
-5.01098	-246.156
-4.98275	-247.758
-4.98123	-247.071
-4.95987	-246.079
-4.96139	-245.24
-4.92859	-245.851
-4.93622	-245.088
-4.9057	-246.003
-4.89731	-244.325
-4.88434	-244.782
-4.87289	-243.409
-4.85611	-243.714
-4.83627	-240.357
-4.83017	-242.188
-4.80728	-239.747
-4.80041	-242.265
-4.77218	-239.823
-4.77447	-240.739

-4.75845	-238.755
-4.72793	-239.137
-4.72259	-237.306
-4.71573	-238.45
-4.68368	-236.237
-4.67224	-237
-4.66766	-236.161
-4.65469	-235.398
-4.62799	-233.109
-4.60739	-233.949
-4.58984	-234.254
-4.58679	-232.423
-4.56237	-232.27
-4.53796	-233.109
-4.52499	-232.194
-4.51812	-230.668
-4.49447	-229.905
-4.47998	-227.54
-4.44946	-229.676
-4.43191	-227.769
-4.41665	-226.472
-4.40063	-226.319
-4.37622	-224.488
-4.3808	-224.793
-4.3457	-224.336
-4.32892	-224.183
-4.29001	-221.513
-4.29153	-221.894
-4.26101	-221.284
-4.23736	-221.284
-4.22287	-219.834
-4.18396	-218.156
-4.19235	-218.614
-4.15878	-218.003
-4.142	-216.783
-4.10537	-216.477
-4.08859	-214.265
-4.0596	-212.51
-4.05273	-213.654
-4.01306	-212.663
-3.99398	-211.366
-3.97567	-211.366
-3.96194	-207.932
-3.92532	-209.687

-3.91922	-206.559
-3.87726	-205.949
-3.87268	-205.949
-3.82995	-206.788
-3.80859	-203.202
-3.79257	-205.186
-3.78189	-202.21
-3.76281	-200.15
-3.72543	-199.769
-3.71246	-198.777
-3.68194	-199.159
-3.64837	-198.091
-3.64151	-196.87
-3.59802	-195.191
-3.57742	-196.565
-3.54614	-195.725
-3.53241	-192.979
-3.50799	-189.698
-3.479	-189.393
-3.4584	-188.554
-3.41568	-187.333
-3.40118	-187.562
-3.376	-185.807
-3.33481	-184.892
-3.31573	-182.755
-3.28216	-182.603
-3.25012	-182.755
-3.22113	-180.009
-3.20663	-178.712
-3.18069	-178.407
-3.15017	-176.194
-3.12576	-175.508
-3.10058	-175.05
-3.09524	-174.592
-3.06549	-170.548
-3.02429	-172.456
-2.99148	-171.006
-2.95944	-169.785
-2.93426	-167.878
-2.92663	-167.268
-2.89535	-167.039
-2.86789	-164.216
-2.83203	-166.047
-2.78778	-165.513

-2.78473	-161.851
-2.73971	-160.935
-2.71225	-160.02
-2.70462	-158.341
-2.66037	-158.875
-2.62451	-155.061
-2.6123	-156.434
-2.57797	-153.382
-2.55203	-154.374
-2.51999	-151.475
-2.49176	-151.322
-2.44674	-149.72
-2.42538	-149.644
-2.41012	-148.957
-2.35443	-145.524
-2.33307	-145.219
-2.2911	-143.54
-2.2705	-143.388
-2.23846	-140.183
-2.21252	-140.183
-2.18429	-138.886
-2.15377	-136.292
-2.12555	-135.606
-2.09045	-134.309
-2.06451	-132.63
-2.02484	-132.707
-1.99432	-130.341
-1.96151	-128.663
-1.93405	-128.053
-1.90353	-126.145
-1.88369	-125.001
-1.83563	-124.009
-1.81656	-121.263
-1.77688	-121.339
-1.74865	-118.974
-1.7334	-119.966
-1.68838	-117.753
-1.6571	-116.456
-1.62582	-116.38
-1.60141	-114.549
-1.55487	-112.946
-1.52511	-113.481
-1.50757	-111.192
-1.46637	-109.513

-1.43966	-107.911
-1.40762	-108.293
-1.38397	-106.385
-1.34582	-105.164
-1.31302	-103.639
-1.268	-102.876
-1.24664	-100.282
-1.22375	-98.4506
-1.20468	-98.3743
-1.17035	-97.6114
-1.12381	-94.9411
-1.10092	-94.407
-1.06506	-92.1182
-1.0292	-91.1264
-0.993344	-88.6087
-0.978848	-89.0665
-0.946042	-86.0147
-0.91171	-84.8703
-0.889584	-84.6414
-0.83923	-82.3526
-0.802609	-78.6142
-0.775143	-79.9112
-0.7431	-77.2409
-0.70419	-77.9276
-0.685117	-75.5624
-0.637814	-74.9521
-0.602719	-72.587
-0.577542	-72.2818
-0.559995	-70.527
-0.518796	-67.5516
-0.503537	-67.3227
-0.453183	-64.9576
-0.421902	-63.8895
-0.386044	-63.3554
-0.365445	-62.9739
-0.338742	-59.9222
-0.313565	-60.8377
-0.277707	-57.3282
-0.220486	-55.9549
-0.205991	-53.895
-0.1564	-53.7424
-0.128934	-52.5217
-0.10452	-52.9031
-0.0701874	-49.3936

-0.037381	-48.4018
-0.00991516	-46.7233
0.0251801	-43.5953
0.0610382	-43.2901
0.0968964	-43.4427
0.131992	-41.3828
0.156406	-40.6961
0.209048	-39.2465
0.218204	-36.4236
0.246432	-36.2711
0.28992	-35.6607
0.313571	-32.2275
0.344089	-32.0749
0.38605	-31.0068
0.424197	-27.1921
0.454715	-26.8869
0.479892	-27.6498
0.516513	-24.6744
0.550082	-22.0804
0.5806	-21.8515
0.620273	-19.4101
0.662997	-17.5027
0.690463	-17.3502
0.718692	-14.8325
0.751498	-13.9169
0.782016	-12.7725
0.824741	-10.8652
0.842288	-10.9415
0.891116	-8.65265
0.920108	-7.58453
0.95444	-6.13495
0.986484	-3.99872
1.00632	-3.61725
1.05744	0.731506
1.08338	-0.412903
1.10855	5.61432
1.15357	3.47809
1.17569	4.16473
1.22986	37.5052
1.24817	-17.2739
1.25962	10.3445
1.31531	13.7015
1.34049	14.6933
1.38092	14.0067

1.39771	18.0502
1.43204	15.3036
1.46866	26.2137
1.50223	23.8486
1.51444	26.4426
1.55487	24.3063
1.58081	25.9085
1.60446	29.0366
1.64414	29.5706
1.67618	31.1728
1.71204	33.9194
1.74408	34.2245
1.79673	47.1182
1.80741	38.8785
1.84937	31.5543
1.87912	45.5161
1.89743	45.6686
1.91422	45.7449
1.95008	48.11
1.99967	49.407
2.01798	51.9247
2.0401	53.298
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